



May 15, 2018

The Honorable Board of Supervisors
City and County of San Francisco
City Hall, Rm. 244
Attention: Ms. Angela Calvillo, Clerk of the Board

Mark Farrell
Mayor

Mohammed Nuru
Director

Subject: Navigation Center at Division Circle Declaration of Emergency

Bruce Robertson
Finance Manager

Dear Members of the Board,

General Administration/Finance
1155 Market St., 4th floor
San Francisco, CA 94103
tel 415-554-5418

An Emergency exists due to a shortage of safe and sanitary housing throughout the City, particularly for no, low, and moderate income persons. A significant number of persons are without the ability to obtain shelter resulting in a situation causing a threat to the health and safety of those persons. Board Resolution NO. 444-17, File NO. 171256 approved 12/15/17 declares a homeless shelter emergency authorizing the Director of Public Works to construct, improve, or repair facilities pursuant to Administrative Code, Section 6.60(a).

sfpublicworks.org
facebook.com/sfpublicworks
twitter.com/sfpublicworks

Per requirement of File NO. 171256, San Francisco Public Works' executed contract No. 1000009419 is attached for your reference. Public Works has retained the services of McGuire and Hester. The cost of the contract is \$1,473,847.00.

Sincerely,

fw

Mohammed Nuru
Director of Public Works
Enclosures: Board Resolution NO.444-17, File NO. 171256
Public Works Order entitled, Emergency Declared and
Executed Contract

RECEIVED
BOARD OF SUPERVISORS
SAN FRANCISCO
2018 MAY 17 PM 3:52
BY



Mark Farrell
Mayor

Mohammed Nuru
Director

Division of Contract Administration
1155 Market Street, 4th Floor
San Francisco, CA 94103
(415) 554-4886 • www.sfdpw.org

Bruce Robertson, Finance Manager

Contract Processing Record Sheet

All Persons involved in contract processing are requested to initial and date this form. If you have any questions regarding this form, please notify:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Alex Burns @ 554-6411 | <input type="checkbox"/> Mike Alonso @ 554-6233 |
| <input type="checkbox"/> Antonio Tom @ 554-5424 | <input type="checkbox"/> Kimberley Norman @ 554-6226 |
| <input type="checkbox"/> Paul Cheng @ 554-5422 | <input type="checkbox"/> Dennis Lam @ 554-4803 |
| <input type="checkbox"/> Freddy Padilla @ 554-5520 | <input type="checkbox"/> Hyun Williams @ 554-6412 |

| | |
|-------------------------------------|---|
| Contract #: 1000009419 | Title: 5th and Bryant Navigation Center |
| Contractor Name: McGuire and Hester | |

| | NAME | Date Received | Received By (Please Initial) |
|----|---|---------------|---------------------------------|
| 1. | Andrew Sohn, Project Manager (Green Tabs) 30 Van Ness Avenue, 4 th Floor (557-4748) | 4/18/18 | AMS |
| 2. | Julia Laue, Division Manager (Yellow Tabs) 30 Van Ness Avenue, 4 th Floor (557-4704) | 4/18/18 | OL |
| 3. | Edgar Lopez, Deputy Director (Blue Tabs) 30 Van Ness Ave, 4 th Floor (557-4675) | 4.18.18 | EAL |
| 4. | Mohammed Nuru, Director of Public Works (Red Tabs) City Hall #348 (c/o Yolanda Beasley, 554-6919) | 4/19/18 | MNW |
| 5. | Contract Administration, 1155 Market St. 4 th Fl | 4/23/18 | AB |
| 6. | Yadira Taylor, Deputy City Attorney (Sign Here Tabs) 4 th /7 th Fl., Fox Plaza (c/o Vonnie Gaines, 554-4227) | 4/27 | YT |
| 7. | Contract Administration, 1155 Market St. 4 th Fl | | |

Please Expedite

RV: *[Signature]*

APR 25 2018



Mark Farrell, Mayor
Mohammed Nuru, Director

Public Works Order No: 187147

CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS EMERGENCY DECLARED AND CONTRACT AWARDED

A significant number of persons are without the ability to obtain shelter resulting in a situation causing a threat to the health and safety of those persons. **Board Resolution NO. 444-17, File NO. 171256 approved 12/15/17** declares a homeless shelter emergency authorizing the Director of Public Works to construct, improve, or repair facilities pursuant to Administrative Code, Section 6.60(a).

Therefore, **an Emergency is declared to exist** under the provisions of Section 6.60 of the San Francisco Administrative Code, and

McGuire and Hester
 2810 Harbor Bay Parkway
 Alameda, CA 94502

is hereby awarded a contract with a not-to-exceed value of **\$1,700,000.00** to construct a Navigation Center at the site known as 5th and Bryant. The not-to-exceed scope of work is for a construction contract and will be assigned on a task order basis. Task Orders will be reviewed by San Francisco Public Works.

Contractor shall indemnify and hold harmless the City & County of San Francisco, its officers, agents and employees and furnish certificates of insurance protecting himself, any sub-contractors and the City & County of San Francisco and its officers, agents and employees against claims arising out of work performed pursuant to this order with the City & County of San Francisco, its officers, agents and employees named as additional insured.

Commercial General Liability Insurance with limits not less than \$1,000,000 each occurrence, and \$2,000,000 general aggregate, combined single limit for bodily injury and property damage.

Commercial Automobile Liability Insurance with limits not less than \$1,000,000 each occurrence combined single limit for bodily injury and property damage, including owned, hired or non-owned vehicles, as applicable.

Workers' Compensation, in statutory amount, including Employers' Liability coverage with limits not less than \$1,000,000 each accident, injury or illness. Contractor is notified that in the event that Contractor employs professional engineering services for performing engineering or preparing design calculations, plans and specifications, retained engineers to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors or omissions in connection with professional services to be provided under the subject Contract.



Professional Liability, Contractor is notified that in the event that employs professional engineering services for performing engineering or preparing design calculations, plans and specifications, retained engineers to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors or omissions in connection with professional services to be provided under the subject contract.

This Order serves as the Notice to Proceed.

DISTRIBUTION:

McGuire and Hester

BDC: Ronald.Alameida@sfdpw.org; Julia.laue@sfdpw.org; Andrew.Sohn@sfdpw.org; Jumoke.Akin-Talor@sfdpw.org; Nicolas.King@sfdpw.org;

Deputy Director: Edgar.Lopez@sfdpw.org

Public Affairs: Jennifer.Blot@sfdpw.org

K2Systems: K2Systems@sfdpw.org

Contract Admin: ContractAdmin.Staff@sfdpw.org;

2/9/2018

2/12/2018

X Edgar Lopez

Lopez, Edgar

Deputy Director and City Architect

Signed by: Lopez, Edgar

X Mohammed Nuru

Nuru, Mohammed

Director of Public Works

Signed by: Nuru, Mohammed



1 [Emergency Declaration - Declaration of Homeless Shelter Emergency and Authorizing
2 Certain Emergency Contracting Provisions]

3 **Resolution declaring a homeless shelter emergency, and authorizing the Director of**
4 **Public Works to construct, improve, or repair facilities pursuant to Administrative**
5 **Code, Section 6.60(a); and the Director of the Department of Homelessness and**
6 **Supportive Housing to contract for homeless services and to offer such services to**
7 **protect the health, safety, and welfare of individuals affected by homelessness and all**
8 **San Francisco citizens in accordance with the requirements in Administrative Code,**
9 **Section 21.15.**

10
11 **WHEREAS, The Board of Supervisors of the City and County of San Francisco ("Board**
12 **of Supervisors"), after careful study and consideration, has determined that there is a**
13 **shortage of safe and sanitary housing throughout the City, particularly for no, low, and**
14 **moderate income persons; and**

15 **WHEREAS, In Ordinance No. 57-16, enacted on April 22, 2016, the Board of**
16 **Supervisors found that a significant number of persons within the City are without the ability to**
17 **obtain shelter, and that the situation has resulted in a threat to the health and safety of those**
18 **persons; and**

19 **WHEREAS, For that reason, and based on factual findings set forth in that ordinance,**
20 **the Board of Supervisors declared the existence of a shelter crisis in the City and County of**
21 **San Francisco in accordance with California Government Code Sections 8698 through**
22 **8698.2; and**

23 **WHEREAS, In Ordinance No. 97-17, enacted May 17, 2017, the Board of Supervisors**
24 **reaffirmed the findings of Ordinance No. 57-16, finding that a significant number of persons**
25

1 within the City continue to be without the ability to obtain shelter, and that the resulting threat
2 to the health and safety of those persons continues; and

3 WHEREAS, For that reason, the Board found that the City needed to expeditiously
4 award contracts to complete repairs or improvements to properties designated for navigation
5 centers and/or temporary housing; and

6 WHEREAS, According to the January 2017 point in time homeless count there were
7 7,499 people experiencing homelessness in San Francisco, a 2% increase from 2013; and

8 WHEREAS, Between 2015 and 2017 San Francisco saw a 31% increase in chronic
9 homelessness; and

10 WHEREAS, The 2017 Point in Time Count found that 58% of the homeless population
11 was unsheltered, 21% were under the age of 25 years, and 32% were over the age of 51
12 years with attendant deteriorating physical health, deteriorating mental health; and

13 WHEREAS, In light of the state and local findings of a continued and worsening shelter
14 crisis, the high and increased number of unsheltered individuals who often occupy public
15 spaces and streets, and continued and worsening threats to the health and safety of those
16 persons affected by the crisis, the Board finds that the City must continue to establish a
17 citywide network of homeless services and sites to offer services including navigation centers
18 in order to expeditiously offer resources to individuals experiencing homelessness; and

19 WHEREAS, The Board of Supervisors urges and supports the Directors of Public
20 Works and the Department of Homelessness and Supportive housing in implementing the
21 necessary emergency provisions needed to address the deteriorating health, safety and
22 welfare conditions on the streets; and

23 RESOLVED, That the Board of Supervisors finds and determines that the foregoing
24 recitals are true and correct; and, be it
25

1 FURTHER RESOLVED, That the Board of Supervisors declares that there continues to
2 be an ongoing emergency in providing emergency shelter for individuals experiencing
3 homelessness; and be it

4 FURTHER RESOLVED, The Board of Supervisors authorizes and directs the Director
5 of San Francisco Public Works to work with City departments including the Department of
6 Homelessness and Supportive Housing and do any and all things necessary or advisable to
7 construct, improve or repair facilities to provide resources for persons experiencing
8 homelessness; and, be it

9 FURTHER RESOLVED, That the Director of San Francisco Public Works may enter
10 into contracts to provide professional services and/or public works construction services to
11 assist the City in the repair or improvement of facilities for persons experiencing
12 homelessness, without adherence to the requirements of Administrative Code Chapters 6,
13 12A, 12B, 12C, and Chapters 14B; and, be it

14 FURTHER RESOLVED, That the Director of the Department of Homelessness and
15 Supportive Housing ("HSH") may enter into contracts for homeless services and to offer such
16 services to protect the health, safety and welfare of individuals affected by homelessness and
17 all San Francisco citizens in accordance with the requirements of Administrative Code Section
18 21.15; and, be it

19 FURTHER RESOLVED, That within 30 days of any contract authorized by this
20 resolution being fully executed by all parties, the Directors of San Francisco Public Works and
21 HSH shall submit to the Clerk of the Board a completely executed copy of their Department's
22 respective contracts for inclusion in File No. 171256; and, be it

23 FURTHER RESOLVED, That this resolution shall sunset at the time that a permanent
24 emergency ordinance is enacted or on February 15, 2018, whichever comes first.
25



City and County of San Francisco
Tails
Resolution

City Hall
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4689

File Number: 171256

Date Passed: December 12, 2017

Resolution declaring a homeless shelter emergency, and authorizing the Director of Public Works to construct, improve, or repair facilities pursuant to Administrative Code, Section 6.60(a); and the Director of the Department of Homelessness and Supportive Housing to contract for homeless services and to offer such services to protect the health, safety, and welfare of individuals affected by homelessness and all San Francisco citizens in accordance with the requirements in Administrative Code, Section 21.15.

December 11, 2017 Budget and Finance Committee - AMENDED

December 11, 2017 Budget and Finance Committee - RECOMMENDED AS AMENDED
AS A COMMITTEE REPORT

December 12, 2017 Board of Supervisors - ADOPTED

Ayes: 9 - Breed, Farrell, Kim, Peskin, Ronen, Safai, Sheehy, Tang and Yee

Noes: 1 - Cohen

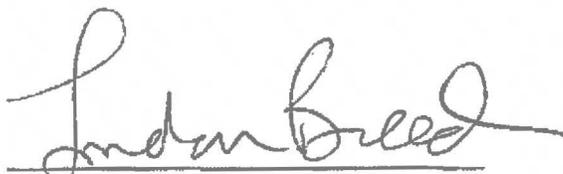
Excused: 1 - Fewer

File No. 171256

I hereby certify that the foregoing
Resolution was ADOPTED on 12/12/2017
by the Board of Supervisors of the City and
County of San Francisco.



Angela Calvillo
Clerk of the Board



Mayor



Date Approved

SECTION 00 52 00

AGREEMENT FORM

THIS AGREEMENT made for the convenience of the parties this 30th day of March 20 18 by and between McGuire and Hester located at 2810 Harbor Bay Parkway, Alameda, CA 94502 ("CONTRACTOR"), and the City and County of San Francisco, State of California (the "CITY"), acting through the Director (the "DIRECTOR") of the San Francisco Public Works, under and by virtue of the Charter and Administrative Code of the City and County of San Francisco.

WHEREAS, the DIRECTOR awarded this AGREEMENT to CONTRACTOR on the 12th day of February, 2018, under AWARD OF FORMAL CONTRACT ORDER NO. 187,147, as more fully appears in the formal record of the DIRECTOR:

**5TH AND BRYANT NAVIGATION CENTER
(San Francisco Public Works Contract No. 100009419)**

NOW, THEREFORE, CONTRACTOR, in consideration of the mutual covenants set forth in this AGREEMENT, promises and agrees to provide all services to construct the Project in accordance with the requirements of the Contract Documents, to perform the Work in good and workmanlike manner to the satisfaction of the DIRECTOR, to prosecute the Work with diligence from day to day to Final Completion, to furnish all construction work, labor and materials to be used in the execution and completion of the Work in accordance with the Contract Documents, and to otherwise fulfill all of CONTRACTOR's obligations under the Contract Documents, as and when required under the Contract Documents to the satisfaction of the DIRECTOR.

CONTRACTOR's execution of this AGREEMENT signifies its acceptance of the Contract Time and Contract Sum as being sufficient for completion of the Work, as well as acceptance of the other terms and conditions of the Contract Documents attached hereto as Attachment A: Project Manual.

ARTICLE 1 - CONTRACT DOCUMENTS; CONTRACTOR'S GENERAL RESPONSIBILITIES

- 1.01 Contract Documents. CONTRACTOR shall Provide all Work according to the Contract Documents, which are incorporated into and made a part of this AGREEMENT by this reference, and all labor and materials used in providing the Work shall comply with the Contract Documents. The Contract Documents, which comprise the entire agreement between CONTRACTOR and the CITY concerning the Provision of the Work, are defined in the General Conditions (Section 00 72 00). Any undefined term used in this AGREEMENT shall be given the definition set forth in the General Conditions (Section 00 72 00).
- 1.02 Contractor's General Responsibilities. CONTRACTOR shall provide a fully functional, complete and operational Project constructed in accordance with the Contract Documents, including but not limited to, all investigations, analyses, surveys, engineering, procurement, materials, labor, workmanship, construction and erection, commissioning, equipment, shipping, subcontractors, material suppliers, permits, insurance, bonds, fees, taxes, duties, documentation, spare parts, materials for initial operation, security, disposal, startup, testing, training, warranties, guarantees, and all incidentals.

ARTICLE 2 - CONTRACT TIME

- 2.01 Completion Dates. As set forth in Section 00 73 02, the Work shall be Substantially Complete within 144 consecutive calendar days, beginning with and including the official date of Notice to Proceed as established by the DIRECTOR, and Finally Complete in accordance with Article 9 of the General Conditions (Section 00 72 00) within 30 consecutive calendar days after the date the CITY issues a Notice of Substantial Completion.

- 2.02 Critical Milestone Dates. Contractor shall complete all critical milestone Work during the periods specified in Section 00 73 02.
- 2.03 Liquidated Damages. It is understood and agreed by and between CONTRACTOR and the CITY that time is of the essence in all matters relating to the Contract Documents and that the CITY will suffer financial loss if the Work is not completed within the above-stated Contract Times, plus any extensions thereof allowed in accordance with Article 7 of the General Conditions (Section 00 72 00). The CITY and CONTRACTOR further understand and agree that the actual cost to CITY which would result from CONTRACTOR's failure to complete the Work within the Contract Time is extremely difficult, if not impossible, to determine. Accordingly, CONTRACTOR and the CITY agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay the CITY the amounts set forth in Section 00 73 02 (Contract Time and Liquidated Damages) for each calendar day that expires after the above Contract Times and the Work remains incomplete.

ARTICLE 3 – CONTRACT SUM

- 3.01 Contract Sum.
- A. CONTRACTOR and the CITY agree that, upon performance and fulfillment of the mutual covenants set forth herein, the CITY will, in the manner provided by law and as set forth in the Contract Documents, pay or cause to be paid to CONTRACTOR the following price(s), as indicated in the Contract Documents.
1. Lump sum amount.
 2. Selected additive/deductive Alternate Bid Items.
- Total awarded contract amount: \$ 1,473,847.00.
- The price(s) and amount set forth above shall be adjusted during performance or upon final completion of the Work in accordance with the Contract Documents.
- B. CONTRACTOR understands and agrees that the CONTRACTOR shall be solely responsible for providing all resources that may be necessary to provide the Work, and that the CITY shall have no obligation whatsoever to finance any part of such costs except with respect to those amounts which become due under the terms and conditions of the Contract Documents.
- 3.02 Certification by Controller. This AGREEMENT is subject to the budget and fiscal provisions of the CITY's Charter. Charges will accrue only after prior written authorization certified by the Controller, and the amount of the CITY's obligation hereunder shall not at any time exceed the amount certified for the purpose and period stated in such advance authorization.

ARTICLE 4 – LABOR REQUIREMENTS

- 4.01 Applicable Laws and Agreements. Compensation and working conditions for labor performed or services rendered under this AGREEMENT shall be in accordance with the Contract Documents, the San Francisco Charter, and applicable sections of the San Francisco Administrative Code, including section 6.22(e).
- 4.02 Prevailing Wages. The latest Wage Rates for Private Employment on Public Contracts in the City and County of San Francisco, as determined by the San Francisco Board of Supervisors and the Director of the California Department of Industrial Relations, and, when federal funds are involved, the current General Wage Determination Decisions, as determined by the U.S. Secretary of Labor, as same may be changed during the term of this AGREEMENT, shall be included in this

AGREEMENT and are hereby incorporated by this reference. CONTRACTOR agrees that any person performing labor in the provision of the Work shall be paid not less than the highest general prevailing rate of wages as so determined. If federal funds are involved, where the minimum rate of pay for any classification differs among State, City and Federal wage rate determinations, the highest of the three rates of pay shall prevail. CONTRACTOR shall include, in any contract or subcontract relating to the Work, a requirement that all persons performing labor under such contract or subcontract shall be paid not less than the highest prevailing rate of wages for the labor so performed. CONTRACTOR shall require any contractor to provide, and shall deliver to CITY every month during any construction period, certified payroll reports with respect to all persons performing labor in the Provision of the Work.

A. Copies of the latest prevailing wage rates are on file at the San Francisco Public Works, City and County of San Francisco, Maurice Williams, Manager, PCS, 30 Van Ness Avenue, 3rd Floor, San Francisco, CA, 94102 and are also available on the Internet at <http://www.dir.ca.gov/opri/DPreWageDetermination.htm>.

4.03 **Penalties.** CONTRACTOR shall forfeit to the CITY back wages due plus not less than fifty dollars (\$50.00) for:

- A. Each laborer, workman, or mechanic employed in the provision of the Work, for each calendar day or portion thereof during which such laborer, workman, or mechanic is not paid the highest general prevailing rate of wage for the work performed; or
- B. Each laborer, mechanic or artisan employed in the provision of the Work, for each calendar day or portion thereof during which such laborer, mechanic or artisan is compelled or permitted to work for a longer period than five days (Monday-Friday) per calendar week of eight hours each, and not compensated in accordance with the prevailing overtime standard and rate.

ARTICLE 5 – NOTICES TO PARTIES

5.01 Unless otherwise indicated in the Contract Documents, all written communications sent by the Parties may be by U.S. mail, e-mail or by fax, and shall be addressed as follows:

To CITY: Julia Laue, Principal Architect & Manager
San Francisco Department of Public Works
30 Van Ness Avenue, 4th Floor
San Francisco, CA 94102
Email: julia.laue@sfdpw.org
Phone: (415) 557-4704

To CONTRACTOR: Kevin Hester, Vice President
McGuire and Hester
2810 Harbor Bay Parkway
Alameda, CA 94502
Email: khester@mcguireandhester.com
Phone: (510) 632-7676

5.02 From time to time, the parties may designate new address information by notice in writing, delivered to the other Party.

5.03 The delivery to CONTRACTOR at the legal address listed above, as it may be amended upon written notice, or the depositing in any post office or post office box regularly maintained by the United States Postal Service in a postage paid wrapper directed to CONTRACTOR at such address, of any drawing, notice, letter or other communication shall be deemed legal and sufficient service thereof upon CONTRACTOR.

ARTICLE 6 – TERMINATION AND SURVIVAL

- 6.01 This AGREEMENT and the other Contract Documents shall terminate when all obligations required to be performed by CONTRACTOR and the CITY have been fulfilled, unless sooner terminated as set forth in Article 14 of the General Conditions (Section 00 72 00).
- 6.02 The provisions of the Contract Documents which by their nature survive termination of the Contract, including without limitation all warranties, indemnities, payment obligations, and the City's right to audit Contractor's books and records, shall remain in full force and effect after termination of the Contract.

THIS SPACE WAS INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the CONTRACTOR and the CITY have hereunto set their hands and seals, and have executed this AGREEMENT in duplicate, the day and year first above written.

CONTRACTOR:

By my signature hereunder, as CONTRACTOR, I certify that I have read and understand the section captioned MacBride Principles – Northern Ireland included in Section 00 73 73, the CITY's statement urging companies doing business in Northern Ireland to move towards resolving employment inequities, encouraging compliance with the MacBride Principles, and urging San Francisco companies to do business with corporations that abide by the MacBride Principles.

I further certify that I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Kimberly S. Carone

Principal
BY: Kimberly S. Carone
Corporate Counsel/Corporate Secretary
Title

CITY:

Recommended By:

Project Manager: *[Signature]*

Division Manager: *[Signature]*

Deputy Director: *[Signature]*

APPROVED:

[Signature]
Director

Approved as to form:
DENNIS J. HERRERA
City Attorney

By: *[Signature]*
Deputy City Attorney

Attachment A: Project Manual

END OF SECTION



**City and County of San Francisco
SAN FRANCISCO PUBLIC WORKS
BUILDING DESIGN AND CONSTRUCTION DIVISION**

5TH AND BRYANT NAVIGATION CENTER

**CONTRACT NO. 100009419
PW 5TH & BRYANT NAV CNTR**

PROJECT MANUAL

FEBRUARY 2018

Each Bid shall be enclosed in an envelope bearing the description:
"BID FOR 5TH AND BRYANT NAVIGATION CENTER
(San Francisco Public Works Contract No. 100009419)".

Vision: To Make San Francisco a beautiful, livable, vibrant and sustainable City.



Printed on 30% post-consumer recycled stock

SECTION 00 01 10

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(NOT USED)

FACILITY SERVICES SUBGROUP

(NOT USED)

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(NOT USED)

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(NOT USED)

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END OF SECTION

SECTION 00 45 60

HIGHEST PREVAILING WAGE RATE CERTIFICATION

Contractor, by submitting the attached Bid Form, hereby acknowledges that Contractor has read the San Francisco Charter section A7.204, San Francisco Administrative Code section 6.22(e), and California Labor Code section 1770 et. seq.

Contractor further acknowledges and certifies that, if awarded the Contract, Contractor will comply with the requirement that any person performing labor or rendering service under a contract for public work or improvement shall be paid not less than the highest general prevailing rate of wages in private employment for similar work. Contractor is aware that failure to comply with such wage provision shall result in a forfeiture of back wages due plus the penalties as set forth in Labor Code section 1775, but not less than \$50 per day per worker, and may result in disqualification as a contractor or subcontractor on any public work or improvement for the City and County of San Francisco for a period of up to five years.

Contractor further attests by submitting the attached Bid Form, that Contractor will require from all of its subcontractors that they acknowledge having read San Francisco Charter section A7.204, San Francisco Administrative Code section 6.22(e), and California Labor Code section 1770 et. seq., and that they will comply with the same requirements under this Contract.

Note: Signing the Agreement Form shall constitute signature of this Certification.

END OF SECTION

SECTION 00 45 78

CERTIFICATE OF CONTRACTOR REGARDING CONTRACTING IN STATES THAT ALLOW DISCRIMINATION AGAINST LGBT INDIVIDUALS

Contractor, by submitting the attached Bid Form, hereby acknowledges that Contractor has read San Francisco Administrative Code Chapter 12X "Prohibiting City Travel and Contracting in States that Allow Discrimination Against LGBT Individuals" ("Chapter 12X") and understands that the City and County of San Francisco cannot enter into contracts with companies with United States headquarters in states that perpetuate discrimination against LGBT populations ("Covered States") or where any or all of the work on the contract will be performed in Covered States.

I _____, certify that at the time of submitting my Bid, the address of the United States headquarters for my company is _____.
I will notify the City if my company's headquarters moves. I also certify that none of the Work performed on this Contract will be performed in any Covered State.

Signature of Contractor or Authorized Representative

Print Name of Authorized Representative

Position in Firm or Corporation

Notes:

- A list of Covered States is available at: <https://oag.ca.gov/ab1887>
- The text of Chapter 12X is posted on the Web at: http://www.amlegal.com/codes/client/san-francisco_ca/
(click on "Administrative Code," then on the left panel, expand "San Francisco Administrative Code," then scroll down and click on "Chapter 12X")

END OF SECTION

SECTION 00 52 00

AGREEMENT FORM

THIS AGREEMENT made for the convenience of the parties this _____ day of _____ 20____ by and between _____ located at _____ ("CONTRACTOR"), and the City and County of San Francisco, State of California (the "CITY"), acting through the Director (the "DIRECTOR") of the San Francisco Public Works, under and by virtue of the Charter and Administrative Code of the City and County of San Francisco.

WHEREAS, the DIRECTOR awarded this AGREEMENT to CONTRACTOR on the _____ day of _____, 20____, under AWARD OF FORMAL CONTRACT ORDER NO. _____, as more fully appears in the formal record of the DIRECTOR:

**5TH AND BRYANT NAVIGATION CENTER
(San Francisco Public Works Contract No. 100009419)**

NOW, THEREFORE, CONTRACTOR, in consideration of the mutual covenants set forth in this AGREEMENT, promises and agrees to provide all services to construct the Project in accordance with the requirements of the Contract Documents, to perform the Work in good and workmanlike manner to the satisfaction of the **DIRECTOR**, to prosecute the Work with diligence from day to day to Final Completion, to furnish all construction work, labor and materials to be used in the execution and completion of the Work in accordance with the Contract Documents, and to otherwise fulfill all of CONTRACTOR's obligations under the Contract Documents, as and when required under the Contract Documents to the satisfaction of the **DIRECTOR**.

CONTRACTOR's execution of this AGREEMENT signifies its acceptance of the Contract Time and Contract Sum as being sufficient for completion of the Work, as well as acceptance of the other terms and conditions of the Contract Documents.

ARTICLE 1 - CONTRACT DOCUMENTS; CONTRACTOR'S GENERAL RESPONSIBILITIES

- 1.01 Contract Documents. CONTRACTOR shall Provide all Work according to the Contract Documents, which are incorporated into and made a part of this AGREEMENT by this reference, and all labor and materials used in providing the Work shall comply with the Contract Documents. The Contract Documents, which comprise the entire agreement between CONTRACTOR and the CITY concerning the Provision of the Work, are defined in the General Conditions (Section 00 72 00). Any undefined term used in this AGREEMENT shall be given the definition set forth in the General Conditions (Section 00 72 00).
- 1.02 Contractor's General Responsibilities. CONTRACTOR shall provide a fully functional, complete and operational Project constructed in accordance with the Contract Documents, including but not limited to, all investigations, analyses, surveys, engineering, procurement, materials, labor, workmanship, construction and erection, commissioning, equipment, shipping, subcontractors, material suppliers, permits, insurance, bonds, fees, taxes, duties, documentation, spare parts, materials for initial operation, security, disposal, startup, testing, training, warranties, guarantees, and all incidentals.

ARTICLE 2 - CONTRACT TIME

- 2.01 Completion Dates. As set forth in Section 00 73 02, the Work shall be Substantially Complete within 144 consecutive calendar days, beginning with and including the official date of Notice to Proceed as established by the DIRECTOR, and Finally Complete in accordance with Article 9 of the General Conditions (Section 00 72 00) within 30 consecutive calendar days after the date the CITY issues a Notice of Substantial Completion.

- 2.02 Critical Milestone Dates. Contractor shall complete all critical milestone Work during the periods specified in Section 00 73 02.
- 2.03 Liquidated Damages. It is understood and agreed by and between CONTRACTOR and the CITY that time is of the essence in all matters relating to the Contract Documents and that the CITY will suffer financial loss if the Work is not completed within the above-stated Contract Times, plus any extensions thereof allowed in accordance with Article 7 of the General Conditions (Section 00 72 00). The CITY and CONTRACTOR further understand and agree that the actual cost to CITY which would result from CONTRACTOR's failure to complete the Work within the Contract Time is extremely difficult, if not impossible, to determine. Accordingly, CONTRACTOR and the CITY agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay the CITY the amounts set forth in Section 00 73 02 (Contract Time and Liquidated Damages) for each calendar day that expires after the above Contract Times and the Work remains incomplete.

ARTICLE 3 – CONTRACT SUM

3.01 Contract Sum.

- A. CONTRACTOR and the CITY agree that, upon performance and fulfillment of the mutual covenants set forth herein, the CITY will, in the manner provided by law and as set forth in the Contract Documents, pay or cause to be paid to CONTRACTOR the following price(s), as indicated in the Schedule of Bid Prices on the Bid Form (Section 00 41 00):

1. Lump sum amount bid.
2. Selected additive/deductive Alternate Bid Items.

Total awarded contract amount: \$_____.

The price(s) and amount set forth above shall be adjusted during performance or upon final completion of the Work in accordance with the Contract Documents.

- B. CONTRACTOR understands and agrees that the CONTRACTOR shall be solely responsible for providing all resources that may be necessary to provide the Work, and that the CITY shall have no obligation whatsoever to finance any part of such costs except with respect to those amounts which become due under the terms and conditions of the Contract Documents.

- 3.02 Certification by Controller. This AGREEMENT is subject to the budget and fiscal provisions of the CITY's Charter. Charges will accrue only after prior written authorization certified by the Controller, and the amount of the CITY's obligation hereunder shall not at any time exceed the amount certified for the purpose and period stated in such advance authorization.

ARTICLE 4 – LABOR REQUIREMENTS

- 4.01 Applicable Laws and Agreements. Compensation and working conditions for labor performed or services rendered under this AGREEMENT shall be in accordance with the Contract Documents, the San Francisco Charter, and applicable sections of the San Francisco Administrative Code, including section 6.22(e).
- 4.02 Prevailing Wages. The latest Wage Rates for Private Employment on Public Contracts in the City and County of San Francisco, as determined by the San Francisco Board of Supervisors and the Director of the California Department of Industrial Relations, and, when federal funds are involved, the current General Wage Determination Decisions, as determined by the U.S. Secretary of Labor,

as same may be changed during the term of this AGREEMENT, shall be included in this AGREEMENT and are hereby incorporated by this reference. CONTRACTOR agrees that any person performing labor in the provision of the Work shall be paid not less than the highest general prevailing rate of wages as so determined. If federal funds are involved, where the minimum rate of pay for any classification differs among State, City and Federal wage rate determinations, the highest of the three rates of pay shall prevail. CONTRACTOR shall include, in any contract or subcontract relating to the Work, a requirement that all persons performing labor under such contract or subcontract shall be paid not less than the highest prevailing rate of wages for the labor so performed. CONTRACTOR shall require any contractor to provide, and shall deliver to CITY every month during any construction period, certified payroll reports with respect to all persons performing labor in the Provision of the Work.

- A. Copies of the latest prevailing wage rates are on file at the San Francisco Public Works, City and County of San Francisco, Maurice Williams, Manager, PCS, 30 Van Ness Avenue, 3rd Floor, San Francisco, CA, 94102 and are also available on the Internet at <http://www.dir.ca.gov/oprl/DPreWageDetermination.htm> .

4.03 Penalties. CONTRACTOR shall forfeit to the CITY back wages due plus not less than fifty dollars (\$50.00) for:

- A. Each laborer, workman, or mechanic employed in the provision of the Work, for each calendar day or portion thereof during which such laborer, workman, or mechanic is not paid the highest general prevailing rate of wage for the work performed; or
- B. Each laborer, mechanic or artisan employed in the provision of the Work, for each calendar day or portion thereof during which such laborer, mechanic or artisan is compelled or permitted to work for a longer period than five days (Monday-Friday) per calendar week of eight hours each, and not compensated in accordance with the prevailing overtime standard and rate.

ARTICLE 5 – NOTICES TO PARTIES

5.01 Unless otherwise indicated in the Contract Documents, all written communications sent by the Parties may be by U.S. mail, e-mail or by fax, and shall be addressed as follows:

To CITY: [Insert name or title of department contact person, name of department, mailing address, e-mail address and fax number.]

To CONTRACTOR: [Insert name of Contractor, mailing address, e-mail address and fax number]

5.02 From time to time, the parties may designate new address information by notice in writing, delivered to the other Party.

5.03 The delivery to CONTRACTOR at the legal address listed above, as it may be amended upon written notice, or the depositing in any post office or post office box regularly maintained by the United States Postal Service in a postage paid wrapper directed to CONTRACTOR at such address, of any drawing, notice, letter or other communication shall be deemed legal and sufficient service thereof upon CONTRACTOR.

ARTICLE 6 – TERMINATION AND SURVIVAL

6.01 This AGREEMENT and the other Contract Documents shall terminate when all obligations required to be performed by CONTRACTOR and the CITY have been fulfilled, unless sooner terminated as set forth in Article 14 of the General Conditions (Section 00 72 00).

- 6.02 The provisions of the Contract Documents which by their nature survive termination of the Contract, including without limitation all warranties, indemnities, payment obligations, and the City's right to audit Contractor's books and records, shall remain in full force and effect after termination of the Contract.

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IN WITNESS WHEREOF, the CONTRACTOR and the CITY have hereunto set their hands and seals, and have executed this AGREEMENT in duplicate, the day and year first above written.

CONTRACTOR:

By my signature hereunder, as CONTRACTOR, I certify that I have read and understand the section captioned MacBride Principles – Northern Ireland included in Section 00 73 73, the CITY's statement urging companies doing business in Northern Ireland to move towards resolving employment inequities, encouraging compliance with the MacBride Principles, and urging San Francisco companies to do business with corporations that abide by the MacBride Principles.

I further certify that I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Principal
BY: _____

Title

CITY:

Recommended By:

Project Manager: _____

Division Manager: _____

Deputy Director: _____

Approved as to form:
DENNIS J. HERRERA
City Attorney

APPROVED:

Director

By: _____
Deputy City Attorney

END OF SECTION

SECTION 00 61 13

PERFORMANCE BOND AND PAYMENT (LABOR & MATERIALS) BOND

KNOW ALL MEN BY THESE PRESENTS, that WHEREAS, the Director of Public Works of the City and County of San Francisco, State of California, has awarded to:

McGuire and Hester, 2810 Harbor Bay Parkway, Alameda, CA 94502

hereinafter designated as the "Principal", a Contract by DPW Order NO. 187147, adopted February 12, 2018 for:

**5TH AND BRYANT NAVIGATION CENTER
(San Francisco Public Works Contract No. 1000009419)**

WHEREAS, said Principal is required under the terms of said Contract to furnish a Bond for the faithful performance of said Contract; and to furnish a separate Bond for the payment of any materials, provisions, or other supplies, used in, upon, for or about the performance of the Work contracted to be done;

NOW, THEREFORE, we the Principal and

_____ as Surety, are firmly bound unto the City and County of San Francisco in the penal sum of

(PERFORMANCE BOND)

\$ 1,473,847.00

One Million, Four Hundred and Seventy Three
Thousand, Eight Hundred and Forty Seven
Dollars

(PAYMENT BOND)

\$ 1,473,847.00

One Million, Four Hundred and Seventy
Three Thousand, Eight Hundred and Forty
Seven Dollars

_____ and _____

lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents for the penal sum for a performance bond and an equal and separate penal sum for a separate payment bond. The conditions of this obligation is such that if the said principal does well and faithfully performs all the conditions and covenants of said Contract, according to the true intent and meaning thereof, upon its part to be kept and performed, then the above obligation is to be null and void, otherwise to remain in full force and effect.

(PERFORMANCE BOND)

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bounden Principal, its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said Contract, including the provisions for liquidated damages in the said Contract, any changes, additions or alterations thereof made as therein provided, on its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the City and County of San Francisco, its officers and agents, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

(PAYMENT BOND)

THE CONDITION OF THIS OBLIGATION IS SUCH, that if said principal, its heirs, executors, administrators, successors or assigns, or its subcontractors, shall fail to pay (i) any of the persons named in California Civil Code Section 9100 for any materials, provisions, or other supplies used in, upon, for or about the performance of work under the Contract, or for any work or labor performed under the Contract; or (ii) amounts due under the California Unemployment Insurance Code with respect to work or labor performed under the Contract; or (iii) for any amounts required to be deducted, withheld, and paid over to the State of California Employment Development Department from the wages of employees of Principal and subcontractors pursuant to Section 13020 of the California Unemployment Insurance Code with respect to such work or labor, that Surety will pay for the same in an amount not exceeding the sum specified in this Bond. In the event that suit is brought upon this Payment Bond, the parties not prevailing in such suit shall pay reasonable attorney's fees and costs incurred by the prevailing parties in such suit.

This Payment Bond shall inure to the benefit of any of the persons named in California Civil Code Section 9100 as to give a right of action to such persons or their assigns in any suit brought against this Bond.

Should the condition of this Payment Bond be fully performed, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

Surety, for value received, hereby expressly agrees that no change, extension of time, modification, alteration or addition to the undertakings, covenants, terms, conditions and agreements of the Contract, or to the work to be performed thereunder, or to the Specifications accompanying the same, and no inadvertent overpayment of progress payments, shall in any way affect its obligations on these Bonds; and it does hereby waive notice of any such change, extension of time, modification, alteration or addition to the undertakings, covenants, terms, conditions and agreements of the Contract, or to the Work to be performed thereunder, or to the Specifications, or of any inadvertent overpayment of progress payments.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their seal this ____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Approved as to form:
Dennis J. Herrera
City Attorney

By: _____
Deputy City Attorney

Principal

By: _____

Surety

By: _____

END OF SECTION

SECTION 00 72 00
GENERAL CONDITIONS
(August 2015)

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GENERAL CONDITIONS (August 2015)

[Note: Paragraphs with major revisions are identified with a vertical bar on the right side.]

ARTICLE 1 - GENERAL

1.01 DEFINITIONS

A. Wherever a word or phrase defined below, or a pronoun used in place thereof, is used in the Contract Documents (as defined in Paragraph 1.02), it shall have the meaning set forth in this Paragraph 1.01. References to related Paragraphs or Documents are provided for convenience but not to exclude other Paragraphs or Documents where such terms may be used. The colon (":") is employed in this Paragraph as a symbol for "shall mean". A colon also may be employed in these General Conditions or elsewhere in the Contract Documents to set off a paragraph title or heading from the text that follows or as a punctuation mark in a sentence to direct attention to the matter that follows.

1. **Accepted, Approved:** Accepted or approved, or satisfactory for the Work, as determined in writing by the City, unless otherwise specified. Where used in conjunction with the City's response to submittals, requests, applications, inquiries, proposals and reports by Contractor, the term "approved" shall be held to limitations of the City's responsibilities and duties as specified in these General Conditions. In no case shall the City's approval be interpreted as a release of Contractor from its responsibilities to fulfill the requirements of the Contract Documents or a waiver of the City's right under the Contract.

2. **Addenda:** Written or graphic instruments issued prior to the opening of Bids which make changes, additions or deletions to the Bid Documents. Refer to Section 00 21 13, Instructions to Bidders.

3. **Agreement:** The Agreement or Contract between the City and Contractor covering the Work to be performed; other Contract Documents are attached to the Agreement and made part thereof as provided herein. The Contract is fully executed upon certification by the Controller of the City and County of San Francisco as to the availability of construction funds. Refer to Section 00 52 00, Agreement Form.

4. **Alternate Bid Item:** A Bid item that may be added to or deducted from the Total Bid Price to meet Project construction budget requirements.

5. **Application for Payment:** Written request submitted by Contractor to City for payment of Work completed in accordance with the Contract Documents and approved schedule of values. Refer to Article 9, Payments and Completion.

6. **Approved Equal:** Approved in writing by the City as being of equivalent quality, utility and appearance. Equivalent means equality in the opinion

of the City Representative. The burden of proof of equality is the responsibility of Contractor. Refer to Division 01 for procedures for proposing substitutions.

7. **Bid, Bid Documents:** Refer to Section 00 21 13, Instructions to Bidders.

8. **Bidding Requirements:** The Sections listed in Section 00 01 10, Table of Contents, under the heading "Procurement Requirements."

9. **Bonds:** Bid, performance and payment (labor and materials) bonds and other instruments of security acceptable to the City. Refer to Paragraph 10.02, Performance Bond and Payment Bond, and Sections 00 43 13 and 00 61 13 for Bond forms.

10. **Bulletin:** Refer to "Field Order."

11. **By Others:** Work on this Project that is outside the scope of Work to be performed by Contractor under this Contract, but that will be performed by the City, other contractors, or other means and at other expense.

12. **Change Order:** A written instrument prepared by the City issued after the effective date of the Agreement and executed in writing by the City and Contractor, stating their agreement upon all of the following: (i) a change in the Work; (ii) the amount of the adjustment in the Contract Sum, if any; (iii) the extent of the adjustment in the Contract Time, if any; and (iv) an amendment to any other Contract term or condition. Refer to Article 6, Clarifications and Changes in the Work.

13. **Change Order Request (COR):** Refer to Paragraph 6.03, Change Order Requests and Proposed Change Orders.

14. **City:** The City and County of San Francisco, California, identified as such in the Agreement and referred to throughout the Contract Documents as if singular in number. The term "Owner" means the City and its authorized agent or representative.

15. **City Representative:** The authorized on-Site representative of the City, as identified at the pre-construction conference convened by the City, in the performance of on-Site inspection and administration of the Contract. All liaisons between the City and Contractor shall be directed through the City Representative.

16. **Claim:** A written demand or assertion by Contractor seeking an adjustment or interpretation of the terms of the Contract Documents, an adjustment in the Contract Sum or Contract Time, or both, or other relief with respect to the Contract Documents, including a determination of disputes or matters in

question between the City and the Contractor arising out of or related to the Contract Documents of the performance of the Work, which is submitted in accordance with the requirements of the Contract Documents. Refer to Article 13.

17. Clarification: A document consisting of supplementary details, instructions or information issued by the City which clarifies or supplements the Contract Documents. Clarifications do not constitute a change in Contract Work, Contract Sum or an extension of Contract Times unless requested by Contractor and approved by the City in accordance with the Contract Documents. Refer to Article 6, Clarifications and Changes in the Work.

18. Code: The latest editions of the San Francisco Municipal Code, as well as any State of California, Federal, or local law, statute, ordinance, rule or regulation having jurisdiction or application to the Project.

19. Commission: Refers to the Contract awarding authority for City departments with boards or commissions (i.e., the San Francisco Public Utilities Commission, the San Francisco Recreation and Park Commission, the San Francisco Port Commission, the San Francisco Airport Commission, or the Board of Directors of the San Francisco Municipal Transportation Agency, as appropriate). Refer to Section 00 52 00, Agreement Form.

20. Contract: Refer to Paragraph 1.02, Contract Documents and Contracting Requirements.

21. Contract Documents: Refer to Paragraph 1.02, Contract Documents and Contracting Requirements.

22. Contract Sum: The sum stated in the Agreement and, including authorized adjustments, the total amount payable by the City to Contractor for the performance of the Work under the Contract Documents. Refer to Section 00 52 00, Agreement Form.

23. Contract Time(s): The number of consecutive days as stated in Section 00 73 02 to: (i) achieve Substantial Completion; (ii) complete the Work so that it is ready for final acceptance as evidenced by the City's issuance of written acceptance as required by section 6.22(k) of the San Francisco Administrative Code; and (iii) achieve any interim Milestones specified in the Contract Documents.

24. Contracting Requirements: The Contracting Requirements establish the rights and responsibilities of the parties and include these General Conditions (Section 00 72 00) and the Sections as listed under Contracting Requirements in the Table of Contents (Section 00 01 10).

25. Contractor: The person or entity with whom the City has executed the Agreement and identified as such therein and referred to throughout the Contract Documents as if singular in number and

neuter in gender. The term "Contractor" means Contractor or its authorized representative.

26. Critical Path: A continuous chain of activities with zero float running from the start event to the finish event in the schedule.

27. Critical Path Method (CPM): Refers to the critical path method scheduling technique.

28. Day: Reference to "day" shall be construed to mean a calendar day of 24 hours, unless otherwise specified.

29. Default: Refer to Paragraph 14.01, Notice of Default; Termination by the City for Cause.

30. Delivery: In reference to an item specified or indicated shall mean for the Contractor and/or Supplier to have delivered and to unload and store with proper protection at the Site. Refer to Paragraph 9.03, Progress Payments, for delivery to another (off-Site) location.

31. Department Head: The contracting officer for the Contract (i.e., the General Manager of the San Francisco Public Utilities Commission, the Director of San Francisco Public Works, the Executive Director of the Port of San Francisco, the General Manager of the San Francisco Recreation and Parks Department, the Director of Transportation of the San Francisco Municipal Transportation Agency, or the Director of the San Francisco International Airport, as appropriate), or his/her designee, acting directly or through properly authorized representatives, agents, and consultants, limited by the particular duties entrusted to them. Refer to Section 00 52 00, Agreement Form.

32. Designated, Determined, Directed: Required by the City, unless otherwise specified. Refer to Paragraph 2.01, Administration of the Contract.

33. Differing Conditions: Refer to Paragraph 3.03, Unforeseen or Differing Conditions.

34. Division: A grouping of sections of the Specifications describing related construction products and activities. Refer to Section 00 01 10, Table of Contents, for a listing of Division and section numbers and titles.

35. Drawings: The graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

36. Effective Date of the Agreement: The date indicated in the Agreement on which it was executed, but if no such date is indicated it shall mean the date on which the Agreement is signed by the last of the two parties to sign, or when the Controller of the City and County of San Francisco certifies the availability of funds, whichever is later.

37. Field Order: A written order issued by the City which provides instructions or requires minor

changes in the Work but which does not involve a change in the Contract Sum or the Contract Time. Refer to Paragraph 6.02, Request for Information, Clarifications and Field Orders.

38. **Final Completion:** The date of written acceptance of the Work by the City, issued in accordance with section 6.22(k) of the San Francisco Administrative Code, when the Contract Work has been fully and satisfactorily completed in accordance with the Contract Documents.

39. **Force Account Work:** Change Order Work to be paid for on the basis of direct costs plus markup on direct costs for overhead and profit as provided in Paragraph 6.07, Force Account Work.

40. **Furnish:** Purchase and deliver to the Site, including proper storage only; no installation is included. The term "Furnish" also means to supply and deliver to the Site.

41. **General Requirements:** The General Requirements include all Documents in Division 1, and govern the execution of the Work of all sections of the Specifications.

42. **Guarantee To Repair Period:** The period specified in Paragraph 8.03 or Division 1 during which Contractor must correct Non-conforming Work.

43. **Indicated:** Shown or noted on the Drawings or written in the Specifications.

44. **Install:** Apply, connect or erect items for incorporation into the Project; Furnishing or Supplying is not included. The term "Install" also describes operations at the Site, including unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

45. **Installer:** A person engaged by Contractor, its Subcontractor or Lower-Tier Subcontractor for performance of a particular element of construction at the Site, including installation, erection, application and similar required operations.

46. **Item:** A separate, distinct portion of the whole Work, which may comprise material, equipment, article, or process.

47. **Lower-Tier Subcontractor or Supplier:** A person or entity who has a direct contract with a Subcontractor or Supplier, or with another Lower-Tier Subcontractor or Supplier, to perform a portion of the Work at the Site or to furnish materials or equipment to be incorporated in the Work by Contractor, Subcontractor or Lower-Tier Subcontractor, as applicable.

48. **Milestone:** A principal date or time specified in the Contract Documents relating to an intermediate event prior to Substantial Completion.

49. **Modification:** A document incorporating one or more Change Orders approved by the City to comply with the Certification by Controller require-

ments of the City's Charter as stated in Section 00 52 00.

50. **Non-conforming Work:** Work that is unsatisfactory, faulty, defective, omitted, incomplete or deficient; Work that does not conform to the requirements of the Contract Documents; Work that does not meet the requirements of inspection, reference standards, tests, or approval referred to in the Contract Documents; or Work that has been damaged or disturbed by Contractor's operations contrary to the Contract Documents prior to Final Completion.

51. **Notice of Default:** Refer to Paragraph 14.01, Notice of Default; Termination by the City for Cause.

52. **Notice of Potential Claim:** Refer to Paragraph 13.02, Notice of Potential Claim.

53. **Notice of Substantial Completion:** The written notice issued by the City to Contractor acknowledging that the Work is Substantially Complete as determined by the City. Said Notice shall not be considered as final acceptance of any portion of the Work or relieve Contractor from completing the punch list items attached to said Notice within the specified time and in full compliance with the Contract Documents.

54. **Notice to Proceed or "NTP":** The written notice issued by the City to Contractor authorizing Contractor to proceed with the Work and establishing the date of commencement of the Contract Time. The Contract Documents may specify more than one NTP applicable to different phases of the Work.

55. **Owner:** Refer to "City."

56. **Paragraph:** A paragraph under an Article of these General Conditions. Refer to "General Conditions-Table of Contents" for a listing of Article and Paragraph numbers and titles.

57. **Partial Utilization:** Right of the City to use a portion of the Work prior to Substantial Completion of the Work.

58. **Project:** Refer to "Work".

59. **Project Manual:** The bound written portion of the Contract Documents prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which consists of the Procurement and Contracting Sections and Specification Sections and may include schedules, is contained in Section 00 01 10, Table of Contents.

60. **Proposed Change Order (PCO):** A document prepared by the City requesting a quotation of cost or time from Contractor for additions, deletions or revisions in the Work initiated by the City or Contractor.

61. **Provide:** Furnish and Install or Supply and Install complete in place at the Site.

62. Punch List / Final Completion: A punch list prepared by the City identifying deficient Items to be corrected by Contractor prior to Final Completion. Refer to Paragraph 9.09, Final Completion and Final Payment.

63. Punch List / Substantial Completion: The list provided by the City identifying Items that shall be corrected or completed before the City considers the Work Substantially Complete. Refer to Paragraph 9.08, Substantial Completion.

64. Quality Assurance (QA): All those planned and systematic actions necessary to provide adequate confidence that a Quality Control Program has been applied.

65. Quality Control (QC): Those actions that control and measure the characteristics of an item, process, or facility against established requirements to ensure that a product or service will satisfy given requirements for quality.

66. Reference Documents: Refer to Section 00 21 13, Instructions to Bidders, and Section 00 31 00 for identification of Reference Documents, if any.

67. Regular Working Hours: 7:00 a.m. to 5:00 p.m., Monday through Friday, except City legal holidays.

68. Request for Information (RFI): A document prepared by Contractor requesting information from the City regarding the Project or Contract Documents.

69. Request for Substitution (RFS): A request from Contractor in accordance with the conditions specified in Division 01 to substitute a material, product, thing or service specified in the Contract Documents with an equal material, product, thing or service. Refer to Paragraph 3.11, Substitutions, and Section 00 49 18, Request for Substitution form.

70. Required: In accordance with the requirements of the Contract Documents.

71. Resident Engineer: See "City Representative."

72. Samples: Physical examples of materials, equipment, or workmanship that are submitted for adjudication of their compliance with the specification.

73. Section: Refer to Section 00 01 10, Table of Contents, for a listing of the Sections.

74. Shop Drawings: All drawings, diagrams, illustrations, schedules and other data or information which are prepared or assembled by or for Contractor and submitted to City.

75. Site: Geographical location of the Project as indicated elsewhere in the Contract Documents.

76. Special Provisions: The part of the Contract Documents that amends, modifies, or supple-

ments these General Conditions. The Special Provisions include the 00 73 00-series Sections as listed in Section 00 01 10, Table of Contents.

77. Specifications: The portion of the Project Manual comprising Division 01 through Division 49 and listed in Section 00 01 10, Table of Contents, consisting of requirements and technical descriptions of materials, equipment, systems, standards and workmanship for the Work, and performance of related administrative services.

78. Specified: Written or indicated in the Contract Documents.

79. Subcontractor: A person or entity who has a direct contract with Contractor to perform a portion of the Work. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and neuter in gender and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor. The term "Subcontractor" shall also include contracts assigned to Contractor if so provided in the Supplementary Conditions or specified in the General Requirements (Division 01).

80. Substantial Completion: The stage in the progress of the Work, when the Work (or a specified part thereof) is sufficiently complete in accordance with the Contract Documents including receipt of a temporary certificate of occupancy, if applicable, issued by the agency having jurisdiction over the Work so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended.

81. Supplementary Conditions: The part of the Contract Documents that amends, deletes or modifies these General Conditions. The Supplementary Conditions are set forth in Section 00 73 00.

82. Supplier: A manufacturer, fabricator, distributor, or vendor having a direct contract with Contractor or with a Subcontractor to furnish materials or equipment to be incorporated in the Work.

83. Supply: Refer to "Furnish."

84. Total Bid Price: Refer to Section 00 21 13, Instructions to Bidders.

85. Unavoidable Delay: Refer to Paragraph 7.02, Delays and Extensions of Time.

86. Unilateral Change Order: A written Change Order to Contractor issued after the effective date of the Agreement in accordance with Paragraph 6.05.

87. Unit Price Work: Work to be paid for on the basis of unit prices and actual quantities of Work. Refer to Paragraph 6.08.

88. Work: The performance by Contractor of all its responsibilities and obligations set forth in the

Contract Documents. Work shall include, but not be limited to, providing all labor, services, and documentation required by the Contract Documents. References in the Contract Documents to "Work" may be to items of Work. Refer to Paragraph 1.03.

89. **Working Day:** Any day of the week except Saturdays, Sundays and statutory holidays.

1.02 CONTRACT DOCUMENTS AND CONTRACTING REQUIREMENTS

A. The Contract Documents form the entire Contract for the construction of the Work, and consist of the following:

1. the Drawings, Project Manual, and all Addenda thereto;
2. the Agreement and other documents listed in the Agreement;
3. Change Orders, Unilateral Change Orders, Clarifications, and Field Orders issued after execution of the Contract; and
4. all provisions of the Bid Documents, as defined in Section 00 21 13, Instructions to Bidders, not in conflict with the foregoing.

B. Nothing in the Contract Documents shall be construed to create a contractual relationship between the City and a Subcontractor, Supplier, Lower Tier Subcontractor or Supplier or a person or entity other than the City and Contractor.

C. The Contracting Requirements and the General Requirements contain information necessary for completion of every part of the Project and are applicable to each section of the Specifications. Where items of Work are performed under subcontracts, each item shall be subject to the Contracting Requirements and General Requirements.

1.03 MEANING AND INTENT OF CONTRACT DOCUMENTS

A. The Contract Documents are complementary; what is required by one shall be as binding as if required by all. The Contract Documents will be construed in accordance with the laws of the State of California, the City's Charter and Administrative Code, and applicable building codes and statutes of the city and/or county where the Project is located.

B. The intent of the Contract Documents is to describe and provide for a functionally complete and operational Project (or part thereof) to be constructed in accordance with the Contract Documents. All Work, materials, and equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as necessary to properly execute and complete the Work to conform to the requirements of the Contract Documents shall be

provided by Contractor with no change in the Contract Sum or Contract Time.

C. Arrangement and titles of Drawings, and organization of the Specifications into Divisions, sections and articles in the Contract Documents shall not be construed as segregating the various units of material and labor, dividing the Work among Subcontractors, or establishing the extent of Work to be performed by any trade. Contractor may arrange and delegate its Work in conformance with trade practices, but Contractor shall be responsible for completion of all Work in accordance with the Contract Documents. The City assumes no liability arising out of jurisdictional issues raised or claims advanced by trade organizations or other interested parties based on the arrangement or manner of subdivision of the content of the Drawings and Specifications. The City assumes no responsibility to act as arbiter to establish subcontract limits between portions of the Work.

D. In interpreting the Contract Documents, words describing materials or Work with a well-known technical or trade meaning, unless otherwise specifically defined in the Contract Documents, shall be construed in accordance with such well-known meaning.

E. A typical or representative detail on the Drawings shall constitute the standard for workmanship and material throughout corresponding parts of the Work. Where necessary, and where reasonably inferable from the Drawings, Contractor shall adapt such representative detail for application to such corresponding parts of the Work. The details of such adaptation shall be submitted to the City for approval. Repetitive features shown in outline on the Drawings shall be in exact accordance with corresponding features completely shown.

F. In the event of a conflict in the Contract Documents regarding the quality of a product, Contractor shall request Clarification from the City as provided in Paragraph 6.02 before procuring said product or proceeding with the Work affected thereby.

G. The layout of mechanical and electrical systems, equipment, fixtures, piping, ductwork, conduit, specialty items, and accessories on the Drawings is shown in diagrams and symbols to illustrate the relationships existing between the parts of the Work; all variations in alignment, elevation, and detail required to avoid interferences and satisfy architectural and structural limitations are not necessarily shown. If rerouting, i.e. relocating a duct, pipe, conduit or similar utilities from the indicated room or space to another room or space to avoid structural interferences, results in a total linear footage which exceeds 125% of the indicated route if the structural interferences did not exist, then Contractor will be compensated for the amount in excess of 125% under the provisions for Change Orders of Article 6. Actual layout of the Work shall be carried out without affecting the architectural and structural integrity and limitations of the Work;

shall be performed in such sequence and manner as to avoid conflicts; shall provide clear access to all control points, including valves, strainers, control devices, and specialty items of every nature related to such systems and equipment; shall obtain maximum headroom; and shall provide adequate clearances as required for operation and maintenance, and as required by the San Francisco Building Code or Code of other public authority having jurisdiction.

H. Unless otherwise indicated in the Contract Documents, the Drawings shall not be scaled for dimensions when figured dimensions are given, or when dimensions could be calculated or field measured. When a true dimension cannot be determined from the Drawings or field measurement, Contractor shall request promptly the same from the City and shall obtain a Clarification or written interpretation from the City before proceeding with the Work affected thereby.

I. In the interest of brevity, the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

J. When there is a conflict between existing on-Site conditions and information indicated on the Drawings, other than Differing Conditions as defined in Paragraph 3.03, the existing condition shall govern. Contractor shall perform the Work and adjust to the existing condition at no additional cost to the City, provided Contractor should have known of such conflicts based on its reasonable investigation of the Site prior to submitting its Bid in accordance with the requirements of Section 00 21 13.

K. All references in the Contract Documents to satisfactory, sufficient, reasonable, acceptable, suitable, proper, correct, or adjectives of like effect shall be construed to describe an action or determination of the City Representative for the sole purpose of evaluating the completed Work for compliance with the requirements of the Contract Documents and conformance with the intent as expressed in subparagraph 1.03B. Such determinations of the City Representative shall be final and conclusive.

1.04 AMENDMENT OF CONTRACT DOCUMENTS

A. The Contract Documents may be amended after execution of the Agreement to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways: (i) Change Order; (ii) Modification, or (iii) Unilateral Change Order.

B. In addition, the requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, in one or more of the following ways: (i) a Field Order;

(ii) a Clarification, written interpretation or other bulletin issued by the City; or (iii) the City's review and acceptance of a shop drawing or sample in accordance with Paragraph 2.01.

1.05 RESOLUTION OF CONFLICTING TERMS; PRECEDENCE OF CONTRACT DOCUMENTS

A. The Contract Documents are intended to be read together and integrated as a whole, and shall be construed and interpreted in a manner so as to avoid any conflicts to the extent possible. Supplementary provisions in the Contract Documents shall not be deemed to be in conflict. It is expressly agreed by and between Contractor and the City that should there be any conflict between the terms of the Contract Documents and the Bid submitted by Contractor, the Contract Documents shall control and nothing herein shall be considered as an acceptance of any terms of the Bid which conflict with the Contract Documents.

B. In the case of discrepancy or ambiguity in the Contract Documents, the following order of precedence shall prevail (listed in order of highest to lowest precedence):

1. Modifications, Change Orders, and Unilateral Change Orders in inverse chronological order, and in same order as specific portions they are modifying.
2. Written Clarifications and Field Orders
3. Executed Agreement.
4. Addenda.
5. Supplementary Conditions.
6. These General Conditions.
7. General Requirements (Division 01).
8. Other Contracting Requirements.
9. Divisions 02 through 49 of the Specifications.
10. Drawings.
11. Bid Documents

C. With reference to the Drawings the order of precedence shall be as follows (listed in order of highest to lowest precedence):

1. Written numbers over figures, unless obviously incorrect.
2. Figured dimensions over scaled dimensions.
3. Large-scale Drawings over small-scale Drawings.
4. Schedules on Drawings or in Project Manual over conflicting information on other portions of Drawings.

5. Detail Drawings govern over general Drawings.
6. Drawing with highest revision number prevails.

1.06 REUSE OF CONTRACT DOCUMENTS

A. The Contract Documents were prepared for the Work of this Contract only. No part of the Contract Documents shall be used for any other construction or for any other purpose except with the written consent of the City. Any unauthorized use of the Contract Documents is at the sole liability of the user.

ARTICLE 2 - CITY'S RESPONSIBILITIES AND RIGHTS

2.01 ADMINISTRATION OF THE CONTRACT

A. The City shall administer the Contract as described in the Contract Documents. Reference is made to Division 01 for administrative requirements and procedures.

B. The Department Head will designate in writing an authorized representative with limited authority to act on behalf of the City. The City may at any time during the performance of this Contract make changes in the authority of any representative or may designate additional representatives in accordance with the City's Charter and codes. These changes will be communicated to Contractor in writing. Contractor assumes all risks and consequences of performing work pursuant to any order, including but not limited to instruction, direction, interpretation or determination, of anyone not authorized to issue such order.

2.02 INFORMATION AND SERVICES

A. The City's survey information, such as monuments, property lines, and reports describing physical characteristics, legal limitations and utility locations for the Site are available as Reference Documents.

B. The City shall apply and pay for the building permit if required for the Work and shall pay all permanent utility service connection fees. All other permits, easements, approvals, temporary utility charges, and other charges required for construction shall be secured and paid for by Contractor in accordance with Paragraph 3.06.

1. The City's responsibility with respect to certain inspections, tests, and approvals is set forth in Article 8.

2.03 RIGHT TO STOP THE WORK; CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH CONTRACT

A. The City may order Contractor to stop the Work, or a portion thereof, until the cause for such order has been eliminated. Any such order to stop the Work shall be in writing, provide Contractor with an effective date for stopping Work, and shall be signed by the City Representative. Unless otherwise agreed to by the City, Contractor shall not be entitled to an adjustment of the Contract Time or Contract Sum as a result of any such order to stop the Work.

B. The right of the City to stop the Work shall not give rise to a duty on the part of the City to exercise this right for the benefit of Contractor or other person or entity.

C. Reasons for ordering Contractor to stop the Work, or a portion thereof, include but are not limited to the following:

1. Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents; or
2. Contractor fails to carry out Work in accordance with the Contract Documents; or
3. Contractor disregards the authority of the authorized City Representative; or
4. Contractor disregards the laws and regulations of a public body having jurisdiction over the Project; or
5. Contractor violates in any substantial way any provisions of the Contract Documents; or
6. Contractor fails to maintain current certificates of insurance on file with the City; or
7. Original Contract Work is proceeding but will be modified by a pending Change Order.

D. In the event that Contractor (i) fails to maintain current certificates of insurance on file with the City; (ii) commits criminal or unlawful acts; (iii) creates safety hazards; or (iv) commits acts or creates conditions that would have an immediate adverse impact on the well-being of the Project, the City, the public, and/or Contractor's employees, the City shall have the right to order Contractor to stop the Work immediately, without prior notice.

2.04 RIGHT TO CARRY OUT THE WORK

A. In the event that Contractor fails to carry out the Work in accordance with the Contract Documents and fails to promptly correct or prosecute the Work within a 3-day period following a written notice of a deficiency from the City, or other such period as may be specified elsewhere in the Contract Documents,

the City may, without prejudice to other remedies the City may have, correct such deficiencies.

B. In such case the City will deduct all costs of such corrections, including the costs of City staff and consultants, from amounts due Contractor. If funds remaining under the Contract are not sufficient to cover the costs of such corrections, Contractor shall reimburse the City.

2.05 RIGHT TO CHANGE, SUSPEND OR DELAY THE WORK

A. By executing this Contract, Contractor agrees that the City has the right to do any or all of the following, which are reasonable and within the contemplation of the parties: (i) order changes, additions, deletions and extras to the Work after execution of the Contract and issued from time to time throughout the period of construction, regardless of their scope, number, cumulative value, or complexity, to correct errors, omissions, conflicts and ambiguities in the Contract Documents, or to implement discretionary changes to the scope of Work requested by the City; (ii) issue changes, additions, deletions and extras in a manner that is not in sequence with the as-built or as-planned progress of the Work; (iii) issue changes due to Unforeseen or Differing Conditions; (iv) suspend the Work, or parts thereof, or limit access to portions of or all of the Work, for the convenience of the City or in the interests of the Project; and (v) delay or disrupt the Work due to failure of the City to timely perform any contractual obligation.

2.06 AUDIT

A. The City shall have the right to examine, copy and audit all documents (whether paper, electronic, or other media) and electronically stored information, including, but not limited to, any and all books, estimates, records, contracts, escrow bid documents, bid cost data, schedules, subcontracts, job cost reports, correspondence, and other data, including computations and projections, of Contractor, Subcontractors, Lower-Tier Subcontractors and Suppliers related to bidding, negotiating, pricing, or performing the Work covered by: (i) a Change Order Request; (ii) Force Account Work; or (iii) a Contract Claim. In the event that Contractor is a joint venture, said right to examine, copy and audit shall apply collaterally and to the same extent to the records of the joint venture sponsor, and those of each individual joint venture member.

B. Upon written notice by the City, Contractor immediately shall make available at its office at all reasonable times the materials noted in subparagraph 2.05A for examination, audit, or reproduction. Notice shall be in writing, delivered by hand or by certified mail, and shall provide not fewer than five-days' notice of the examination and/or audit. The City may take possession of the records and materials noted in

subparagraph 2.05A by reproducing documents for off-site review or audit. When requested in the City's written notice of examination and/or audit, Contractor shall provide the City with copies of electronic documents and electronically stored information in a reasonably usable format that allows the City to access and analyze all such documents and information. For documents and information that require proprietary software to access and analyze, Contractor shall provide the City with two licenses with maintenance agreements authorizing the City to access and analyze all such documents and information.

C. The City has sole discretion as to the selection of an examiner or auditor and the scope of the examination or audit.

D. The City may examine, audit, or reproduce the materials and records under this Paragraph from the date of award until three years after final payment under this Contract.

E. Failure by the Contractor to make available any of the records or materials noted in subparagraph 2.05A or refusal to cooperate with a notice of audit shall be deemed a material breach of the Contract and grounds for Termination For Cause.

F. Contractor shall insert a clause containing all the provisions of this Paragraph in all subcontracts of Subcontractors and Lower-Tier Subcontractors and Suppliers for this Contract over \$10,000.

2.07 NO WAIVER OF RIGHTS

A. None of the following shall operate as a waiver of any provision of this Contract or of any power herein reserved by the City or any right to damages herein provided:

1. inspection by the City or its authorized agents or representatives; or
2. any order or certificate for payment, or any payment for, or acceptance of the whole or any part of the Work by the City; or
3. any extension of time; or
4. any position taken by the City or its authorized agents or representatives.

2.08 CITY NOT LIABLE FOR CONSEQUENTIAL DAMAGES

A. The City, its boards and commissions, and all of their officers, agents, members, employees, and authorized representatives shall have no liability to Contractor for any type of special, consequential or incidental damages arising out of or connected with Contractor's Work. This limit of liability applies under all circumstances including, but not limited to, the breach, completion, termination, suspension, cancellation or rescission of the Work or this Contract, negli-

gence or strict liability by the City, its boards and commissions, and their representatives, consultants or agents.

ARTICLE 3 - CONTRACTOR'S RESPONSIBILITIES

3.01 REVIEW OF CONTRACT DOCUMENTS AND SITE CONDITIONS

A. The Contract Documents are not complete in every detail but show the purpose and intent only, and Contractor shall comply with their true intent and meaning, taken as a whole, and shall not avail itself of any manifest error, omission, discrepancy or ambiguity which appear in the Contract Documents, instructions or work performed by others.

B. Contractor shall verify all dimensions and determine all existing conditions that may affect its Work adequately in advance of the Work to allow for resolution of questions without delaying said Work, and Contractor shall be responsible for the accuracy of such dimensions and determinations.

C. Contractor shall carefully review the appropriate portions of the Contract Documents a minimum of 30 days in advance of the Work to be executed for the express purposes of checking for any manifest errors, omissions, discrepancies or ambiguities. Contractor shall not be entitled to any compensation for delays, disruptions, inefficiencies or additional administrative effort caused by Contractor's untimely review of the Contract Documents.

D. Contractor shall notify the City in writing promptly as specified in Paragraph 6.02 upon discovery of errors, omissions, discrepancies or ambiguities, and the City will issue a Clarification or RFI reply as to the procedure to be followed. If Contractor proceeds with any such Work without receiving such Clarification or RFI reply, it shall be responsible for correcting all resulting damage and Non-conforming Work.

E. Contractor shall be responsible for its costs and the costs of its Subcontractors to review Contract Documents and field conditions and to implement and administer a Request for Information (RFI) system throughout the Contract Time in accordance with the requirements of Division 01. Contractor shall be responsible for costs incurred by the City for the work of the City's consultants and City's administrative efforts in answering Contractor's RFIs where the answer could reasonably be found by reviewing the Contract Documents.

F. Prior to start of Work, Contractor and the City Representative shall visit the site and adjacent properties as necessary to document existing conditions including photographs. Contractor shall document these conditions and shall submit prior to the start of

Work a complete report of existing conditions determined by the site survey as indicated in Division 01.

3.02 SUPERVISION OF THE WORK

A. Unless there are specific provisions in the Contract Documents to the contrary, Contractor shall be solely responsible to fully and skillfully supervise and coordinate the Work and control the construction means, methods, techniques, sequences and procedures. Contractor shall be solely responsible for Contractor's failure to carry out the Work in accordance with the Contract Documents and for the acts or omissions of Contractor, its Subcontractors, or their agents or employees, or of any other persons performing portions of the Work. Contractor is solely responsible for maintaining safe conditions on the site at all times, in accordance with Article 12.

B. Contractor shall supervise and coordinate the Work of its Subcontractors so that information required by one will be furnished by others involved in time for incorporation into the Work in the proper sequence and without delay of materials, devices, or provisions for future Work.

C. Whenever the Work of a Subcontractor is dependent upon the work of other Subcontractors or contractors, then Contractor shall require the Subcontractor to:

1. coordinate its Work with the dependent work;
2. provide necessary dependent data, connections, miscellaneous items, and other transitional requirements;
3. supply and install items to be built into dependent work of others;
4. make provisions for dependent work of others;
5. examine dependent drawings and specifications and submittals;
6. examine previously placed dependent work;
7. check and verify dependent dimensions of previously placed work;
8. notify Contractor of previously placed dependent work or dependent dimensions which are unsatisfactory or will prevent a satisfactory installation of its Work; and
9. not proceed with its Work until the unsatisfactory dependent conditions have been corrected.

D. Contractor shall immediately comply with and prosecute orders and instructions including, but not limited to, Change Orders, RFI replies and Clarifications given by the City in accordance with the terms of this Contract, but nothing herein contained shall be

taken to relieve Contractor of any of its obligations or liabilities under this Contract, or of performing its required detailed direction and supervision.

E. Contractor shall at all times permit the City, its agents and authorized representatives to: (i) visit and inspect the Work, the materials and the manufacture and preparation of such materials; (ii) subject them to inspection at all such places; and (iii) reject if the Work does not conform to the requirements of the Contract Documents. This obligation of Contractor shall include maintaining proper facilities and safe access for such inspection. Where the Contract requires Work to be tested or inspected, it shall not be covered up before inspection and approval by the City as set forth in Article 8.

F. Whenever Contractor desires to perform Work outside regular working hours, Contractor shall give notice to the City of such desire and request and obtain the City's written permission at least 3 working days in advance, or such other period as may be specified, except in the event of an emergency prior to performing such Work so that the City may make the necessary arrangement for testing and inspection.

G. If Contractor receives a written notice from the City that a Clarification is forthcoming from the City, all Work performed before the receipt of the Clarification shall be coordinated with the City to minimize the effect of the Clarification on Work in progress. All affected Work performed after receipt of the City's written notice but before receipt of the Clarification and not so coordinated shall be at Contractor's risk.

H. During all disputes or disagreements with the City, Contractor shall carry on the Work and adhere to the progress schedule required to be submitted under the requirements of the Contract Documents. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as the City and Contractor may otherwise agree in writing.

3.03 UNFORESEEN OR DIFFERING CONDITIONS

A. Consistent with section 7104 of the California Public Contract Code, if any of the following conditions are encountered at the Site, Contractor shall promptly, and before such conditions are disturbed, notify the City in writing.

1. Material that Contractor believes may be material that is hazardous waste, as defined in section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing Law.

2. Subsurface or latent physical conditions at the Site differing materially from those indicated by information about the Site made available to bidders prior to the deadline for submitting bids.

3. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in the work of the character provided for in the Contract Documents.

B. Contractor's written notice shall include the following information concerning such conditions: (i) location; (ii) nature and extent; (iii) a description of how such conditions affect the Work; (iv) recommended methods to overcome such conditions; (v) the baseline conditions described in the Contract Documents that formed the basis of Contractor's expectations regarding the conditions that would be encountered; and (vi) the results of any testing, sampling, or other investigation conducted by Contractor.

C. Differing Conditions shall not include:

1. All that is indicated in or reasonably interpreted from the Contract Documents or Reference Documents;

2. All that could be seen on Site;

3. Conditions that are materially similar or characteristically the same as those indicated or described in the Contract Documents or Reference Documents.

4. Conditions where the location of a building component is in the proximity where indicated in or reasonably interpreted from the Contract Documents or Reference Documents.

D. The City will promptly investigate the conditions reported in Contractor's written notice, and will issue a written report of findings to Contractor.

E. Contractor shall be responsible for the safety and protection of the affected area of the Work for the duration of the City's investigation of potential Differing Conditions.

F. Only if the City determines, in its sole and reasonable discretion, that the conditions reported do materially so differ, or do involve hazardous waste, and cause a decrease or increase in Contractor's cost or time required to perform all or part of the Work, will the City issue a Change Order as provided in Article 6 of these General Conditions. If the City determines that a differing condition exists, Contractor shall promptly submit a Cost Proposal and/or Time Adjustment Proposal, as appropriate, per Article 6 to facilitate the timely negotiation and execution of a Change Order.

G. If Contractor disagrees with the City's determination and wishes to pursue an adjustment to the Contract Sum and/or Contract Time, Contractor must timely submit a written Notice of Potential Claim to the City as provided in Paragraph 13.03 of these General Conditions. Contractor's Notice of Potential Claim must include the information required by Paragraph 13.02, and must also identify the Escrow Bid Docu-

ments that formed the basis of Contractor's Bid to perform the Work affected by the alleged differing condition. In the event of such disagreement, Contractor shall proceed with all Work to be performed under the Contract Documents, and shall not be excused from any scheduled completion date provided for by the Contract Documents.

H. Failure by Contractor to comply with the requirements of this Paragraph concerning the timing and content of any notice of unforeseen or differing site conditions or of any request for adjustment of the Contract Sum and/or Contract Time based on alleged unforeseen or differing site conditions shall be deemed a waiver of any Contract Claim or subsequent proceedings (e.g., Government Code Claims and litigation) by Contractor for adjustments to the Contract Sum or Contract Time arising from or relating to such conditions.

3.04 SUPERINTENDENTS AND OTHER KEY TEAM MEMBERS

A. Contractor shall at all times be represented at the Site by Contractor's competent project manager or superintendent whom it has authorized in writing to make decisions and receive and carry out any instructions given by the City. Contractor will be held liable for the faithful compliance with such instructions. Prior to the issuance of Notice to Proceed, Contractor shall inform the City in writing of the names, addresses and telephone numbers of its key personnel whom it has authorized to act as its representatives at the Site and who are to be contacted in case of emergencies at the Site during non-working hours, including Saturdays, Sundays and holidays. If Contractor is a joint venture, it shall designate only one such representative.

B. The City reserves the right to reject Contractor's project manager, general construction superintendents, project coordinators, and foremen at any time for cause as provided in subparagraph 3.05A. The City shall be given written notice of, and shall have the right to approve, replacement of Contractor's project manager, superintendents and foremen.

C. In the event that the Contractor proposes to substitute a key team member during the performance of the Contract, Contractor shall submit to the City Representative, at least seven days prior to engaging the person, an Experience Statement form (Section 00 49 12) for the City's review and acceptance. Any proposed substitution is subject to the approval of the City Representative based upon qualifying experience on similar projects as set forth in the bid documents for the project. Failure to obtain the City's acceptance shall not constitute a cause for delay. In addition, the City may issue an order to stop the work under Article 2.03 until such time as the Contractor engages persons possessing skills and qualifications acceptable to the City.

3.05 LABOR, MATERIALS AND EQUIPMENT

A. Contractor shall employ only competent and skillful persons to perform the Work, and shall at all times maintain good discipline and order at the Site. Upon the City's notification Contractor shall discharge from the Work and replace at no additional cost to the City an employee, Subcontractor or Supplier used on the Work who, in the City's sole judgment: (i) is incompetent, obnoxious, or disorderly; or (ii) has intimidated or sexually harassed a City employee, agent or member of the public; or (iii) is refusing to carry out the provisions of the Contract.

B. In order that the City can determine whether Contractor has complied or is complying with the requirements of the Contract which are not readily enforceable by inspection and test of the Work and materials, Contractor shall upon request submit properly authenticated documents or other satisfactory proof of its compliance with such requirements.

C. Before ordering materials, equipment, or performing Work, Contractor shall verify indicated dimensions in a timely fashion by taking field measurements required for the proper fabrication and installation of the Work as specified in Paragraph 3.01. If a discrepancy exists, Contractor shall notify the City immediately and request the City to clarify the intended design. Upon commencement of a particular item of Work, Contractor shall be responsible for dimensions related to such item of Work.

D. All materials and equipment shall be delivered, handled, stored, installed, and protected to prevent damage in accordance with best current practice in the industry, in accordance with manufacturers' specifications and recommendations, and in accordance with the requirements of the Contract Documents. Contractor shall store packaged materials and equipment to the Site in their original and sealed containers, marked with the brand and manufacturer's name, until ready for use. Contractor shall deliver materials and equipment in ample time to facilitate inspection and tests prior to installation.

E. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all materials, equipment, labor, transportation, construction equipment, machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, field offices, storage facilities and incidentals necessary for the performance, testing, start-up and completion of the Work in accordance with Division 01.

F. In the event that Division 01 does not require a field office for the City Representative, Contractor shall provide adequate separate sanitary facilities at the Site for the City Representative.

3.06 PERMITS, FEES AND NOTICES

A. Contractor shall pay all utility charges for temporary connections to the Work.

B. Unless otherwise provided in the Contract Documents, Contractor shall secure and pay for all permits (other than the building permit), governmental fees (other than permanent utility service connection fees), licenses, and inspections (other than inspections which are to be performed at the expense of the City as provided in Article 8) necessary for proper execution and completion of the Work. See Section 00 73 01 Permits and Agreements.

1. Contractor shall coordinate and obtain all permits prior to starting Work for which permits are required.

2. The City will reimburse Contractor for reasonable costs incurred for obtaining permits that are not specified in the Bid Documents to be obtained at Contractor's expense.

C. Pursuant to section 832 of the California Civil Code, Contractor shall give all notices required by laws, ordinances, rules, regulations and lawful orders of public authorities that relate to performance of the Work.

D. Contractor shall secure all permits and pay all applicable permit fees prior to performing excavation in the public right of way. Contractor shall timely deliver, post and maintain all notices required by such permits. Contractor shall be solely responsible for coordinating and performing its excavation and street restoration operations in accordance with the conditions of such excavation permits and applicable regulations. Should delays or damages be caused by Contractor's failure to coordinate or comply with the conditions of such excavation permits, Contractor shall pay all costs, assessments, fines, and penalties resulting therefrom.

E. If Contractor observes that portions of the Contract Documents are at variance with the Code or other applicable laws, statutes, ordinances, rules and regulations, Contractor shall promptly notify the City in writing. If the City determines that changes to the Contract Documents are necessary to comply with such laws, statutes, ordinances, rules or regulations, the City will make necessary changes to the Contract Documents by appropriate amendment.

F. If Contractor performs Work it knows, or reasonably should have known, to be contrary to the Code or other applicable laws, statutes, ordinances, and rules and regulations without written notice to the City, Contractor shall assume responsibility for such Work and shall bear all costs of correction.

G. Contractor shall keep the permits, an approved set of Drawings and Specifications, and a copy of the

Code at the Site readily available for inspection during regular working hours throughout the Contract Time.

H. Contractor shall coordinate all required inspections and special inspections with the appropriate agency having jurisdiction. Contractor shall notify the City Representative in accordance with Article 8, so that the appropriate City representatives and inspectors will be present at these inspections.

I. Contractor shall be responsible for preparing and submitting for approval to the appropriate agency having jurisdiction all shop drawings, product data, and manufacturer's certificates as may be required under the conditions of applicable permits.

J. Contractor shall submit to the City Representative as a condition precedent to Final Completion signed permit documents including, but not limited to, job cards, permit applications, permit Drawings, and certificates of occupancy.

3.07 RECORD DOCUMENTS

A. Contractor shall maintain at the Site a current record copy of all Contract Documents including, but not limited to, Drawings, Specifications, Addenda, Change Orders, RFIs, Clarifications, Field Orders, and approved shop drawings, samples and other submittals, in good order and clearly marked to record accurately the Work as actually constructed ("as-built"), including changes, adjustments, and other information relative to the Work as actually constructed, all in accordance with the Specifications. Additionally, record documents shall conform to the requirements specified in Division 01.

B. Contractor shall furnish on a monthly basis the aforesaid record documents for the City to review and determine their sufficiency in conforming to the requirements set forth in subparagraph 3.07A. The City shall have the right to withhold 25 percent of progress payments due Contractor until Contractor has complied with this Paragraph 3.07.

C. Record documents shall be available for inspection by the City at all times and shall be delivered to the City prior to Substantial Completion.

3.08 CONTRACTOR'S DAILY REPORT

A. Contractor shall complete, and submit to the City on the next day, consecutively numbered daily construction reports in accordance with Division 01.

B. In addition, whenever Force Account Work is in progress, Contractor shall complete and submit to the City detailed written daily Force Account Work reports as provided under Paragraph 6.07.

3.09 PROGRESS AND SUBMITTAL SCHEDULES

A. At the Pre-Construction Conference, Contractor shall submit to the City for review a 60 day bar chart type Plan of Operation as required by Division 01.

B. Prior to commencing Work, Contractor shall submit to the City for review the following schedules:

1. a cost-and-resource-loaded Base Line Construction Schedule for the Work which shall use, unless otherwise specified in Division 01, the critical path method (CPM), activity on arrow or precedence diagramming method, as outlined in the Associated General Contractors publication "The Use of CPM in Construction," and shall indicate the times (number of days or dates) for starting and completing the various stages of the Work, including all milestones and special constraints specified in the Contract Documents; and

2. a submittal log, coordinated with the progress schedule in accordance with the requirements of Division 01, listing all submittals required by the Contract, their cognizant specification reference, and indicating the times for submitting such submittals.

C. Unless specified elsewhere in the Contract Documents, within 10 days after submittal, the City and Contractor shall meet to review for acceptability to the City the schedules submitted under subparagraph 3.09A. Contractor shall have an additional 5 days to make corrections and adjustments and to complete and resubmit the schedules.

D. No progress payments will be made to Contractor unless and until the Baseline Schedule is submitted and accepted by the City.

E. Contractor shall adhere to the Base Line Construction Schedule accepted by the City in accordance with subparagraph 3.09C and as may be adjusted during the performance of the Work in accordance with the Contract Documents. Contractor shall submit to the City for acceptance proposed revisions or adjustments in the base line construction schedule. Proposed adjustments in the base line construction schedule that will change the Contract Times shall be submitted to the City in accordance with Paragraph 7.02.

F. Acceptance of base line construction and submittal schedules by the City will neither impose on the City responsibility for the sequencing, scheduling, or progress of the Work nor interfere with or relieve Contractor from its full responsibility therefor.

G. Contractor shall submit a monthly progress schedule update as a condition precedent to making an Application for Payment as set forth in Paragraph 9.03 and Division 01. All updates shall be submitted to the City for the City's acceptance; if rejected, Contractor shall correct and resubmit updates to the satis-

faction of the City before a pending application for payment is approved.

1. Each progress schedule update shall continue to show all Work activities including those already completed and those of changed Work.

2. Each progress schedule update shall accurately reflect "as-built" information by accurately indicating the dates activities were actually started and completed and the actual percent complete of activities.

3. Contractor's submission of progress schedule updates, reports, curves or narratives, or the City's acceptance of such progress schedule updates, reports, curves or narratives, shall not amend or modify, in any way, the Contract Time or milestone dates or modify or limit, in any way, Contractor's obligations under this Contract.

4. Contractor waives its rights to time extensions based on changed Work if Contractor has failed to meet its obligations to provide monthly schedule updates as specified herein.

H. Early Completion Schedule: If Contractor submits a base line schedule that shows a completion time that is earlier than the Contract Time, the "float" shall belong to the Project. Contractor shall not be entitled to a compensable time extension for any Change Order or Unilateral Change Order that causes the early completion date to be extended within the "float."

3.10 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

A. Shop drawings, product data, samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required the way Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.

B. Contractor shall review, approve, stamp, and submit to the City as specified in Division 01 shop drawings, product data, samples and similar submittals required by the Contract Documents in accordance with the accepted submittal schedule. Submittals made by Contractor that are not required by the Contract Documents may be returned without action.

C. By approving and submitting shop drawings, product data, samples and other submittals, Contractor represents that it has determined and verified materials, field measurements and field construction criteria related thereto, and has checked and coordinated the information contained within such submittals for conformance to the Contract Documents and for coordination of the Work indicated in the submittal and with adjacent work.

D. Contractor shall not perform any portion of the Work requiring submittal and review of shop drawings, product data, samples and other submittals until the respective submittal has been received, reviewed and approved or received, reviewed and accepted by the City and returned to Contractor. Such Work shall be in accordance with approved/accepted submittals. Contractor is solely responsible for delays or disruptions to the Work caused by inadequate, uncoordinated, incorrect or late submittals.

E. Where a shop drawing or sample is required by the Contract Documents, related Work performed prior to the City's review and approval of the pertinent submittal shall be at the sole expense, risk and responsibility of Contractor.

F. The review, acceptance, approval, or other action taken by the City upon Contractor's submittals such as shop drawings, product data, samples and other submittals, shall apply to general design concepts only, and shall in no way relieve Contractor from its responsibility to notify the City of errors or omissions therein in accordance with Paragraph 3.01, nor from providing all labor, equipment, and materials in accordance with the requirements of the Contract Documents necessary for the proper execution of the Work. The City's action will be taken with such reasonable promptness provided that the City shall be provided a reasonable time, as set forth in Division 1, to permit adequate review. Approval/acceptance of submittals shall not affect the Contract Sum, and additional costs that may result therefrom shall be solely Contractor's obligation. Contractor shall be responsible to provide engineering or other costs necessary to prepare the submittals and obtain approvals required by the Contract Documents from the City or other authorities having jurisdiction. The City is not precluded, by virtue of such approvals/acceptances, from obtaining a credit for construction cost resulting from allowed concessions in the Work or materials therefor.

G. Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the City's approval of shop drawings, product data, samples and other submittals unless Contractor has specifically informed the City in writing, attached to the submittal, of such deviation at the time of submittal and the City has given written approval to the specific deviation.

1. Deviations shall also be indicated clearly and boldly on such shop drawing, product data, sample or related submittal.

2. For resubmitted shop drawings, product data, samples and other submittals, Contractor shall direct specific attention, by written attachment, to revisions other than those requested by the City on previous submittals.

H. Contractor shall not be relieved of responsibility for errors or omissions in shop drawings, product data, samples or similar submittals by the City's approval thereof.

3.11 SUBSTITUTIONS

A. Pursuant to section 3400 of the California Public Contract Code, Contractor shall submit for approval to the City a properly completed Request for Substitution (refer to Section 00 49 18) for each material, product, thing, or service that it proposes to substitute in place of, and as the equal, of a material, product, thing, or service specified in the Contract Documents by trade name or by the names of any particular patentee, manufacturer or dealer. Failure to submit said Request for Substitution form within the period specified in Section 00 49 18 will be deemed adequate and reasonable grounds for refusal by the City to consider any subsequent proposed substitutions.

B. The requirements for obtaining approval of substitutions shall be as specified in Division 01.

3.12 USE OF SITE

A. Contractor shall confine its operations at the Site to areas permitted by law, ordinances, permits and the Contract Documents and shall not unreasonably encumber the Site with materials or equipment.

B. Notwithstanding the designation of Contract limits or the indication of temporary fences or barricades, the provisions of the Contract Documents governing certain portions or phases of the Work may require that certain operations be carried out beyond such designated limits. In all cases, the Work shall be constructed solely within the boundaries described in the Contract Documents. Contractor shall coordinate with the City to obtain in advance of said operations all necessary permits, rights-of-way, or easements, and shall give proper notice thereof to owners of affected properties in accordance with section 832 of the California Civil Code. Contractor shall obtain all such permits, rights-of-way and easements at no cost to the City.

C. Pumping, draining and control of surface and ground water and excavating or other earthwork shall be carried out so as to avoid endangering the Work or adjacent facility or property, or interrupting, restricting or otherwise infringing or interfering with the use thereof. Contractor shall conform to the Code and applicable laws and regulations and shall obtain all permits necessary to perform grading or excavation or dispose of surface or ground water or excavated materials at the Site.

D. Contractor shall not load nor permit any part of any structure to be loaded in a manner that will endanger the structure, nor shall Contractor subject part

of the Work or adjacent property to stresses or pressures that will endanger it.

E. Contractor shall assume full responsibility and shall promptly settle all claims for damage to areas within the Contract limits, or to adjoining areas or the owners or occupants thereof, resulting from the performance of the Work.

3.13 ACCESS TO WORK

A. During the performance of the Work, the City and its authorized representatives, including City consultants performing necessary project-related functions on behalf of the City (e.g., construction management personnel and design professionals), or other persons deemed necessary by any of them acting within the scope of the duties entrusted to them, may at any time, and for any purpose, enter upon the Work, the shops where any part of such Work may be in preparation, the facilities where any part of the Work may be in storage, or the factories where any materials for use in the Work are being, or are to be, manufactured. Contractor shall not require City personnel or City consultants performing necessary project-related functions on behalf of the City to sign visitor hold harmless agreements or similar agreements requiring the signatory to defend, hold harmless and/or indemnify Contractor for claims arising out of or relating to the Work, the Project, or the Site.

3.14 CUTTING AND PATCHING

A. Contractor shall be responsible for performing, in accordance with the requirements of the Specifications, all cutting, fitting, and patching of the Work that may be required to make all parts fit together or to receive the work of other contractors shown on, or reasonably implied by, the Contract Documents for the completed Work.

B. Contractor shall not damage or endanger a portion of the Work, or fully or other partially completed construction of the City or separate contractors, by excavation or by cutting, patching or otherwise altering such construction. Contractor shall not cut or otherwise alter such construction by the City or a separate contractor except with written consent of the City. Contractor shall not withhold from the City Contractor's consent to cut or otherwise alter the Work.

3.15 CLEANING UP AND REMOVING DEBRIS

A. Contractor shall keep the Site and surrounding area, including public areas immediately adjacent to the Site such as temporary pedestrian walkways and sidewalks, free from accumulation of excess materials, rubbish, graffiti, and debris.

1. Contractor shall perform such clean up and removal in accordance with the requirements of the Specifications.

2. Prior to Substantial Completion Contractor shall remove from and about the Site excess materials, rubbish, Contractor's tools, construction equipment, and machinery and shall perform final cleaning as specified in accordance with the requirements of the Specifications.

3. Removal and disposal of such excess materials, rubbish, and other debris shall conform to applicable laws and regulations.

B. If Contractor fails to comply with Article 3.15 or to clean up as provided in the Contract Documents, the City may do so and deduct the cost of such cleanup from the amount due Contractor under the Contract.

C. Contractor shall salvage and deliver to the City removed equipment, appurtenances and other materials that are not reused in the Work and indicated by the City to be salvaged. Contractor shall remove from the Site as its property and dispose of in a legal manner all other equipment, appurtenances and other materials to be removed and not indicated to be salvaged or otherwise claimed by the City.

3.16 INTELLECTUAL PROPERTY; ROYALTIES AND INDEMNIFICATION

A. Contractor shall be responsible at all times for compliance with applicable patents, copyrights, trademarks, and/or other intellectual property rights held by others encompassing, in whole or in part, any invention, design, process, product, device, material, article or arrangement used, directly or indirectly, in the performance of the Work or incorporated into the Work.

B. Contractor shall pay, and include in the Contract Sum, all royalties and license fees and assume all costs incident to the use in the performance of the Work or the incorporation into the Work of any invention, design, process, product, device, material, article or arrangement which is the subject of a patent right, copyright, trademark, and/or other intellectual property right held by others.

C. To the fullest extent permitted by law, Contractor shall save, defend, hold harmless, and fully indemnify the City and all its officers and employees connected with the Project, other parties designated in Article "Insurance for Others" of Section 00 73 16, and all of their officers, agents, members, employees, authorized representatives, or any other persons deemed necessary by any of them acting within the scope of the duties entrusted to them, from all damages, claims for damage, costs, or expenses in law or equity, including attorney's fees and costs, that may at any time arise or be set up for any infringement or unauthorized use of any patent rights, copyrights, trademarks or other intellectual property claims by any person in consequence of the use by the City, or any of its officers, agents, members, employees,

authorized representatives, or any other person deemed necessary by any of them acting within the scope of the duties entrusted to them, of articles to be supplied under the Contract and of which Contractor is not the patentee or assignee or does not have the lawful right to sell the same.

1. This indemnity provision is in addition to all other hold harmless and indemnity clauses in the Contract Documents, and shall survive Final Completion and termination of the Contract. The notice, cooperation and control of defense provisions set forth in Paragraph 3.19 shall apply to this intellectual property indemnity.

D. If the City is enjoined from the operation or use of the Work, or any part thereof, as a result of any suits or claims for infringement or unauthorized use of a patent right, copyright, trademark, and/or other intellectual property right, Contractor shall, at its sole expense and at no cost to the City, take reasonable steps to procure the right to operate or use the Work. If Contractor cannot so procure such right within a reasonable time, Contractor shall promptly, at Contractor's sole expense and at no cost to the City, (1) modify the Work, consistent with applicable requirements of the Contract Documents, so as to avoid infringement of any such intellectual property right, or (2) replace said Work with work that meets applicable requirements of the Contract Documents and that does not infringe or violate any such intellectual property right.

E. Subparagraphs 3.16C and 3.16D, above, shall not apply to any suit, claim or proceeding based on infringement or violation of a patent right, copyright, trademark, and/or other intellectual property right (i) arising from any unauthorized modifications to the Work by the City or its agents; or (ii) arising from the combination of Work with any products or services not provided or recommended by Contractor where the combination is the basis for infringement.

3.17 WARRANTY

A. Contractor warrants and guarantees to the City that materials and equipment provided under the Contract shall be at least of the quality specified and new unless otherwise required or permitted by the Contract Documents and if no quality is specified, then the materials and equipment shall be of commercial grade, suitable for heavy public use in facilities of similar size and complexity; that the Work will be free from defects, and that the Work will conform to the requirements of the Contract Documents.

1. Contractor additionally warrants manufacturers' product warranties.

B. Contractor's warranty excludes damage or defects caused by abuse, modifications to equipment by the City and not authorized by Contractor, improper or insufficient maintenance, improper operation, or nor-

mal wear and tear. Testing shall not be construed as operation.

C. Contractor shall deliver product warranties and guarantees conforming to the requirements of the Specifications to the City Representative prior to Final Completion.

D. The warranty provisions of this Paragraph 3.17 are separate and additional to the provisions for correction of Non-conforming Work as specified in Article 8.

3.18 TAXES

A. Contractor shall be responsible for paying all taxes applicable during the performance of the Work or portions thereof, whether or not said taxes were in effect on or increased after the date of Bid opening.

3.19 INDEMNIFICATION

A. Consistent with California Civil Code section 2782, Contractor shall assume the defense of, indemnify and hold harmless the City, its boards and commissions, other parties designated in Article "Insurance for Others" of Section 00 73 16, and all of their officers, agents, members, employees, authorized representatives, or any other persons deemed necessary by any of them acting within the scope of the duties entrusted to them, from all claims, suits, actions, losses and liability of every kind, nature and description, including but not limited to attorney's fees, directly or indirectly arising out of, connected with or resulting from the performance of the Work. This indemnification shall not be valid in the instance where the loss is caused by the sole negligence or willful misconduct of any person indemnified herein. Contractor's obligations under this Paragraph apply regardless of whether or not such claim, suit, action, loss or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of the City under any provision of this Contract, Contractor shall not be required to indemnify and hold harmless City for liability attributable to the active negligence of City, provided such active negligence is determined by agreement between Contractor and City or by the findings of a court of competent jurisdiction. In instances where City is shown to have been actively negligent and where City's active negligence accounts for only a percentage of the liability involved, the obligation of Contractor will be for that entire portion or percentage of liability not attributable to the active negligence of City..

1. Contractor's defense, indemnity and hold harmless obligations shall extend to City Consultants (e.g., design professionals and construction managers) providing services under separate written agreement with the City covering any portion of the Project and designated as additional insureds in Article "Insurance for Others" of Section 00 73 16.

2. Contractor's defense, indemnity and hold harmless obligations shall not extend to the liability of a City Consultant designated as additional insured in Article "Insurance for Others" of Section 00 73 16 or its agents, employees or subconsultants arising out of, connected with or resulting from such indemnitee's own active negligence, errors or omissions or from (1) such indemnitee's preparation or approval of maps, plans, opinions, reports, surveys, Change Orders, designs or Specifications, or (2) such indemnitee's issuance of or failure to issue directions or instructions provided that such issuance or failure to issue is the primary cause of the damage or injury.

B. Contractor acknowledges that any claims, demands, losses, damages, costs, expenses, and legal liability that arise out of, result from, or are in any way connected with the release or spill of any legally designated hazardous material or waste or contaminated material as a result of the Work performed under this Contract are expressly within the scope of this indemnity, and that the costs, expenses, and legal liability for environmental investigations, monitoring, containment, removal, repair, cleanup, restoration, remedial work, penalties, and fines arising from the violation of any local, state, or federal law or regulation, attorney's fees, disbursements, and other response costs are expressly within the scope of this indemnity.

C. The City and other indemnified parties specified in subparagraph 3.19A shall provide Contractor with prompt written notice after receipt of any claim, action or demand ("claim") made by a third party against the City and/or other indemnified party, provided, however, that no delay on the part of the City or other indemnified party shall relieve Contractor from any obligation hereunder. Contractor shall obtain the City's and other indemnified parties' consent for Contractor's choice of counsel and such consent shall not be unreasonably withheld or delayed, such that any responsive pleadings may be timely filed, and in every instance, within thirty (30) days after City or other indemnified party has given notice of the claim, and provided further that City and other indemnified parties may retain separate co-counsel at their expense and participate in the defense of the claim. If the interests of Contractor and the City and/or other indemnified party conflict and counsel chosen by Contractor cannot, in City's or other indemnified parties' reasonable opinion, adequately represent Contractor, City and/or other indemnified party, then the cost and expense associated with the City and/or other indemnified party retaining separate co-counsel shall be borne by Contractor, otherwise, the cost and expense of separate co-counsel retained by City and/or other indemnified party shall be borne by the City or other indemnified party, as applicable. Subject to Contractor's obligation to reimburse City's and other indemnified parties' costs of same, City and other indemnified parties will assist Contractor in the defense of the claim by providing cooperation, infor-

mation and witnesses, as needed to the extent there is no material conflict of interest.

1. So long as Contractor has assumed and is conducting the defense of a claim in accordance with the preceding subparagraph, (i) Contractor will not consent to the entry of any judgment or enter into any settlement with respect to the claim without the prior written consent of City or other indemnified party, as applicable, which consent will not be unreasonably withheld, unless the judgment or proposed settlement involves only the payment of money damages by Contractor and does not impose any obligation upon City and/or other indemnified party in connection with such judgment or settlement and Contractor obtains the full and complete release of City and/or other indemnified parties; and (ii) City and/or other indemnified parties will not consent to the entry of judgment or enter into any settlement without the prior written consent of Contractor.

2. If Contractor does not assume and conduct the defense of claim as required above, (i) City or other indemnified party may defend against, and consent to, the entry of any judgment or enter into any settlement with respect to the claim in any manner it reasonably may deem appropriate, and City or other indemnified party need not consult with, or obtain any consent from, Contractor, and (ii) Contractor will remain responsible for any losses City and/or other indemnified party may suffer resulting from, arising out of, relating to, in the nature of, or caused by the claim to the fullest extent provided in this Paragraph 3.19.

D. Contractor's liability shall not be limited to the amount of insurance coverages required under the Contract Documents.

E. In the event that Contractor and its insurance carrier(s) in bad faith refuse to negotiate and compensate a third party or parties for property damage or personal injuries which arise out of Contractor's performance of the Work, the City shall have the right to estimate the amount of damages and to pay the same, and the amount so paid shall be deducted from the amount due Contractor under this Contract, or an appropriate amount shall be retained by the City until all suits or claims for said damages shall have been settled or otherwise disposed of and satisfactory evidence to that effect shall have been furnished to the City.

F. The defense and indemnity obligations of this Paragraph shall survive Final Completion and termination of this Contract. Contractor's defense and indemnity obligations shall extend to claims arising after the Work is completed and accepted if the claims are directly related to alleged acts or omissions by Contractor that occurred during the course of the Work.

3.20 COMPLIANCE WITH LAWS; INDEMNIFICATION

A. Contractor shall keep itself fully informed of and comply with the Charter, ordinances and regulations of the City and other local agencies having jurisdiction over the Work, and all federal and state laws, regulations, orders or decrees in any manner affecting or applicable to the Contract Documents, the performance of the Work, or those persons engaged therein.

B. All construction and materials provided under the Contract Documents shall be in full accordance with the latest laws and requirements, or the same as may be amended, updated or supplemented from time to time, of the Code specified in the Contract Documents, Americans with Disability Act Accessibility Guidelines, CAL-OSHA, the State Division of Industrial Safety of the Department of Industrial Relations, the Division of the State Architect – Access Compliance, the Public Utilities Commission of the State of California, the State Fire Marshal, the National Fire Protection Association, the San Francisco Department of Public Health, state and federal laws and regulations, and of other bodies or officials having jurisdiction or authority over same, and they shall be observed and complied with by Contractor and any and all persons, firms and corporations employed by or under it.

C. As required by and in accordance with the procedures specified in Paragraph 3.19, Contractor shall assume the defense of, indemnify and hold harmless the City, its boards and commissions, other parties designated in Article "Insurance for Others" of Section 00 73 16, and all of their officers, agents, members, employees, authorized representatives, or any other persons deemed necessary by any of them acting within the scope of the duties entrusted to them, from all claims or liability arising from the violation of law, regulation, order or decree by Contractor or its Subcontractors or Suppliers of all tiers in connection with or resulting from performance of the Work.

D. If the City incurs any fines or penalties because of Contractor's (or a Subcontractor's or Supplier's) failure to comply with a law, regulation, order or decree, the City may deduct the amount of the fine or penalty from the Contract Sum.

E. Authorized persons may at any time enter upon any part of the Work to ascertain whether applicable laws, regulations, orders or decrees are being complied with. Contractor shall promptly notify the City Representative if a regulatory agency requests access to the job site or to records. Contractor shall provide the City Representative with a list of documents provided to the regulatory agency and enforcement actions issued against Contractor.

F. No additional costs will be paid or extensions of time granted as a result of Contractor's compliance with this Paragraph 3.20.

3.21 LIABILITY OF CONTRACTOR – CONSEQUENTIAL DAMAGES

A. Contractor shall have no liability to City for any type of special, consequential or incidental damages arising out of or connected with Contractor's performance of the Work. This limit of liability applies under all circumstances including, but not limited to, the breach, completion, termination, suspension or cancellation of the services under this Contract, and negligence or strict liability of Contractor. This limit of liability shall NOT, however, apply to, limit or preclude: (i) Contractor's obligation to pay Liquidated Damages as set forth in the Contract Documents; (ii) damages caused by Contractor's gross negligence, reckless conduct, willful acts or omissions, fraud or illegal or unlawful acts; (iii) Contractor's obligations to indemnify and defend the City and other indemnified parties as set forth in this General Conditions; (iv) Contractor's liability for any type of damage, including but not limited to, business interruption and extra expense, to the extent such damage is required to be covered by insurance as specified in the Contract Documents; (v) wrongful death caused by Contractor; (vi) punitive or treble damages; (vii) Contractor's liability for damages expressly provided for in the Contract Documents, including without limitation statutory damages imposed by the City upon Contractor under the City Ordinances and Municipal Codes specified in the Contract Documents; and (viii) Contractor's warranties and guarantees under the Contract Documents.

ARTICLE 4 - SUBCONTRACTORS

4.01 SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

A. Under section 1725.5 of the California Labor Code, all Subcontractors who bid or work on a public works project must register and pay an annual fee to the California Department of Industrial Relations. No unregistered Subcontractor, regardless of the dollar amount of subcontract work, may be awarded a contract for public work on a public works project. Contractor shall not employ a Subcontractor who does not maintain a current registration with the California Department of Industrial Relations.

B. Unless otherwise specifically provided by the Contract Documents, subcontracting shall be in accordance with the governing regulations regarding subcontracts, section 6.21 of the San Francisco Administrative Code, and section 1771.1 of the California Labor Code. Section 6.21 and section 1771.1

shall govern the designation of, failure to specify, and substitution of Subcontractors and the assignment, transfer and performance of subcontracts.

C. Contractor shall not employ a Subcontractor, Supplier or other person or entity that the City has determined unqualified or non-responsible. The City may give written notice of such determination prior to award of the Contract or at any time during the Contract Time, and upon receipt thereof Contractor shall provide replacement with a qualified person or entity. The City shall have the right of approval and shall not be responsible for added costs to Contractor, if any, of employing such replacement person or entity.

4.02 SUBCONTRACTUAL RELATIONS

A. Contractor shall have an appropriate written agreement specifically binding each Subcontractor or Supplier to Contractor by the applicable terms and conditions of the Contract Documents, in the same manner Contractor is bound to the City. Each subcontract agreement shall preserve all rights of the City with regards to the Work to be performed by the Subcontractor or Supplier. All Subcontractors and Suppliers shall have similar agreements with Lower-Tier Subcontractor and Lower-Tier Suppliers. All Subcontractors and Suppliers shall be given copies of the contract documents to which the Subcontractor or Supplier will be bound, and upon written request of the Subcontractor or Supplier, shall have identified written terms and conditions of their proposed subcontract agreement that vary from the Contract Documents. Subcontractors and Suppliers shall fulfill the same requirements toward their respective proposed Lower-Tier Subcontractors and Lower-Tier Suppliers.

4.03 ASSIGNABILITY OF SUBCONTRACTS

A. All subcontracts of Subcontractors and Lower-Tier Subcontractors and purchase agreements of Suppliers and Lower-Tier Suppliers shall provide that they are freely assignable to the City under the following conditions:

1. the City terminates the Contract for cause under provisions of Article 14;
2. the City requests such assignment; and
3. the surety providing the performance bond for the Project fails to timely fulfill its obligations under the performance bond.

B. The City will notify the Subcontractors, Lower-Tier Subcontractors and Suppliers in writing of those agreements the City wishes to accept.

4.04 SUCCESSORS AND ASSIGNS

A. Contractor shall constantly give its personal attention to the faithful prosecution of the Work. Contractor shall keep the Work under its personal control and shall not assign by power of attorney or other-

wise, nor subcontract the whole or any part thereof, except as herein provided.

B. All transactions with Subcontractors will be made through Contractor, and no Subcontractor shall relieve Contractor of any of its liabilities or obligations under the Contract.

C. When a Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the City, Contractor shall remove such Subcontractor immediately upon written request of the City, and shall request approval of a replacement Subcontractor to perform the Work in accordance with Administrative Code section 6.21(a)(9) and the Subletting and Subcontracting Fair Practices Act, Cal. Public Contract Code section 4100 et seq., at no added cost to the City.

D. The Contract shall not be assigned except upon the approval of the City in accordance with Administrative Code section 6.22(d).

ARTICLE 5 - CONSTRUCTION BY CITY OR BY SEPARATE CONTRACTORS

5.01 CITY'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

A. Should the Contract Documents indicate that construction work, or work of any other nature, be performed by other contractors or other forces within or adjacent to the limits of Work, or be underway at the time the Work was advertised for Bids, Contractor shall cooperate with all such contractors or forces to the end so as to avoid delay or hindrance to their work. The cost of such cooperation shall be considered as included in Contractor's Bid price and no direct or additional payment will be made therefor.

B. The City reserves the right to perform other or additional work within or adjacent to the limits of Work at any time during the Contract by the use of other forces or contractors. If the performance of such other or additional work not indicated in the Contract Documents or underway at the time of advertising for Bids materially increases Contractor's costs, then Contractor may submit a Change Order Request therefor in accordance with Paragraph 6.03.

C. If the City gives Contractor written notice to vacate a location so that other work may be performed by other forces or contractors at the location(s) where Contractor is already performing Work, Contractor shall promptly suspend Work at that location and clean up and demobilize its operations from the location to the extent necessary as determined by the City to allow the other forces or contractors to perform their work. Contractor shall provide the City Representative written notice when cleanup and demobiliza-

tion has been completed. The City Representative will issue to the other forces or contractors a notice to proceed with their work. After the date of said notice to proceed, Contractor shall allow proper and safe access to the Work at the subject location and shall schedule and coordinate its Work with the other contractors' work.

D. If Contractor requires access to a location where another contractor is performing work, Contractor shall request such access in writing from the City Representative. The City Representative will provide written notice to Contractor when the work of other forces or contractors at the subject location is completed, and upon receipt of such notification, Contractor shall have full access and shall commence or resume its operations in that location.

E. If Contractor believes it is entitled to a time extension caused by its obligations under subparagraphs 5.01C or 5.01D above, it shall comply with the notification requirements of Paragraph 7.02.

F. When it is necessary for Contractor and another contractor or utility owner to work in the same location at the Site, each party shall assume the following mutual responsibilities for the benefit of the other party at no additional cost to the City:

1. both parties shall execute identical agreements mutually indemnifying each other from any loss, damage, or injury that may be incurred as a result of the performance of work by the other while both are performing work in the same location;
2. both parties shall add the other party as an additional insured under their respective liability policies;
3. the party seeking to use portions of the construction Site of the other party to perform its work shall pay all direct costs incurred by the other party to accommodate its operations; and
4. if Contractor contends that delay or additional cost is involved because of such action by the City, Contractor shall make such Claim by the procedures as provided in Article 13.

G. The City shall not be a party to any of the agreements between multiple contractors and shall have no liability to any party with regard to the lack of coordination and cooperation or the inability of a party to execute specific work requirements. Contractor agrees to indemnify and hold the City harmless for all claims or losses that Contractor or the other contractors may incur as a result of their inability to successfully obtain work areas under the control of one of the parties.

5.02 COORDINATION

A. Contractor shall afford other contractors and the City reasonable opportunity for storage of materi-

als at the Site, shall ensure that the execution of the Work properly coordinates with work of such contractors, and shall cooperate with such other contractors to facilitate the progress of the Work in such a manner as the City may direct.

B. Notice of Conflicting Conditions: Where Contractor's Work is adjacent to or placed on top of that of another contractor, Contractor shall examine the adjacent work and substrate and report in writing to the City any visible defect or condition preventing the proper execution or increased cost of its Contract. If Contractor proceeds without giving notice, it shall be held to have accepted the work or material and the existing conditions, and shall be responsible for any defects in its own Work consequent thereon, and shall not be relieved of any obligation or any guarantee because of any such condition or imperfection. This provision shall be included in any and all other contracts or subcontracts for Work to be performed where such a conflict could exist.

1. The foregoing does not apply to latent defects. Contractor shall report to the City latent defects in another contractor's work promptly upon discovery.

C. Contractor shall notify the City promptly in writing when another contractor working at the Site fails to coordinate its work with the Work of this Contract as directed.

D. Any difference or conflict that may arise between Contractor and the other contractors or City forces in regard to their work shall be adjusted as determined by the City.

E. If so directed by the City, Contractor shall prepare coordination drawings as necessary to satisfactorily coordinate and interface the Work of its Contract with the work of all other contracts thereby avoiding conflicts that may otherwise arise. If such coordination drawings are not required elsewhere in the Contract Documents, then Contractor may submit a Change Order Request as provided under Paragraph 6.03 for additional costs incurred by it in preparation of such coordination drawings.

F. At any time during the progress of the Work, the City may, by providing reasonable notice, require Contractor to attend any conference of any or all of contractors engaged in the Work.

G. If the City determines that Contractor is failing to coordinate its Work with the work of other contractors as directed, the City may upon 72 hour written notice:

1. withhold any payment otherwise owed under the Contract until Contractor complies with the City's directions; or
2. direct others to perform portions of the Contract and charge the cost of Work against the Contract Sum; or

3. terminate any and all portions of the Contract for Contractor's failure to perform in accordance with the Contract.

5.03 CLEAN UP RESPONSIBILITIES

A. Contractor and other contractors shall each bear responsibility for maintaining their respective work areas on the premises and adjoining areas free of waste, rubbish, graffiti, debris, or excess materials and equipment at all times.

B. In the event of conflicts the City, after issuing 24 hour written notice to the contractors involved, will clean up the premises and deduct from the amount due Contractor under the Contract the cost of said clean up as the City determines equitable.

ARTICLE 6 - CLARIFICATIONS AND CHANGES IN THE WORK

6.01 GENERALLY

A. The City may, at any time between the Notice to Proceed and Final Completion and without notice to Contractor's surety, order additions, deletions, or revisions in the Work by Change Order, Unilateral Change Order, or Field Order. Contractor shall promptly comply with such orders and proceed with the Work, which shall be performed under the applicable requirements of the Contract Documents.

B. Contractor shall not be entitled to an increase in the Contract Sum or an extension of the Contract Time if Contractor performs work that is not required by the Contract Documents as amended, modified, or supplemented in writing.

C. The procedures set forth in this Article 6 are intended to ensure that when Clarifications and Changes in the Work are proposed, the Contractor provides the City with its best estimate of the costs and impacts associated with each Clarification and/or Change, so that the City may evaluate each potential Change and proceed on an informed basis. The City also intends that the Clarification and Change Order procedures (including the use of Unilateral Change Orders and Force Account) facilitate payment to the Contractor of additional, undisputed amounts.

D. Failure by the Contractor to comply with the procedures of this Article, including the failure to provide timely, sufficient information and/or documentation to the City at the time of any Clarification or Change Order Request, shall constitute a waiver of any subsequent claim by the Contractor arising out of such Clarification or Change Order.

6.02 REQUESTS FOR INFORMATION, CLARIFICATIONS AND FIELD ORDERS

A. Should there appear to Contractor to be a discrepancy in the Contract Documents, should questions arise as to the meaning or intent of the Contract Documents, or should the City's comments on submittals returned to Contractor appear to Contractor to change the requirements or scope of the Contract Documents, Contractor shall submit a Request for Information ("RFI") to the City promptly in accordance with Division 01. Contractor shall coordinate and schedule its Work to provide the City sufficient time to issue a written reply to the RFI before proceeding with Work affected thereby.

B. The City shall issue a reply to the RFI within 10 working days of receipt of the same. The reply may include written Clarifications as deemed by the City to be necessary and consistent with the Contract Documents, or a Field Order requiring minor changes in the Work. If additional time is needed to issue the reply, the City will, within the 10 working-day reply period, notify the Contractor of the longer reply period.

C. Clarifications of the Contract Documents and Field Orders issued by the City shall be binding on Contractor and shall be promptly executed by Contractor. The City's right to clarify any element of the Contract Documents shall not be construed to entitle Contractor to a modification of the Contract Sum or a change in the Contract Time.

6.03 CHANGE ORDER REQUESTS (COR) AND PROPOSED CHANGE ORDERS (PCO)

A. COR Initiation: Should the City's Clarification or other written directive or determination, in the opinion of Contractor, materially exceed or change the requirements of the Contract Documents, Contractor shall submit to the City a written Change Order Request (COR) within 5 working days of receipt of the Clarification or other written directive or determination. A COR shall reference the Clarification or other written directive or determination and the relevant Specification and Drawings. A COR shall also include a cost proposal and/or a time adjustment proposal, as a good faith estimate of any additional compensation or time associated with the affected Work, documented in accordance with subparagraphs 6.03E and 6.03F, below, and a narrative describing the scope of the COR including means and methods, sequence of Work, and other information necessary to fully understand the scope of the COR. The COR shall also include, as a minimum standard, quantity take offs and extensions identifying equipment and material against a specific Work task within the scope. Failure to submit a timely, fully documented COR shall constitute a waiver of any future claim for additional compensation or time relating to such Work.

B. COR Review: The City will review the COR. Within 10 working days after receipt of the COR and

all required supporting documentation, the City will issue a written determination accepting or rejecting the COR in whole or in part. If the City requires additional time to issue a determination, it will notify the Contractor of the same in writing, within the initial 10 working-day period. A final determination is any determination on a COR which states that it is final. If the City issues a final determination denying a COR in whole or in part, Contractor may contest the decision by filing a timely Notice of Potential Claim per Article 13 of these General Conditions. If the City does not issue a determination within the 10 working-day period, or such other period as set forth in a written notice, then the COR is deemed rejected, and the City's failure to issue a determination shall be treated as the issuance, on the last day of the applicable period, of a final decision denying the COR in its entirety.

C. PCO Initiation: The City may initiate a change in the Work by issuing a Proposed Change Order (PCO). A PCO will include a detailed description of the proposed additions, deletions or revisions with supplementary or revised Drawings and Specifications, and will request from Contractor a quotation of cost and time for completing the proposed changes. After the City issues a PCO, Contractor shall not submit a COR for the same Work addressed in the City's PCO.

D. PCO Quotation Time Period: Contractor shall submit a PCO cost proposal and PCO time adjustment proposal, if applicable, to the City within 10 working days after receipt of a PCO. If Contractor fails to submit a PCO cost proposal and/or PCO time adjustment proposal within the 10 working-day period, or if the price or time adjustment cannot be agreed upon, the City may either direct Contractor to proceed with the Work on a Force Account basis or a Unilateral Change Order instructing Contractor to proceed with the PCO Work based on the City's estimate of the cost and/or time adjustment.

E. COR and PCO Cost Proposal Requirements: The Cost Proposal shall include a complete itemized breakdown of labor, material, equipment, taxes, insurance, bonds, and markup for overhead and profit for both additions and deletions on a form supplied by the City. The same shall be required for Subcontractor and Lower-Tier Subcontractor cost proposals, which shall be furnished on the same form as required for Contractor.

1. At a minimum, Contractor shall provide the following documentation to the City in support of Contractor and Subcontractor cost proposals:

- a. material quantities and type of products;
- b. labor breakdown by trade classification, wage rates, and estimated hours;
- c. equipment breakdown by make, type, size, rental rates, and equipment hours; and

F. COR and PCO Time Adjustment Proposal Requirements: If Contractor asserts it is entitled to an adjustment in Contract Time due to the proposed change order work, whether by COR or PCO, Contractor shall provide the following documentation to the City in support of any Contractor and Subcontractor time adjustment proposals:

1. Contractor shall submit to the City a CPM time impact evaluation using sub-network or fragmentary network and including a written narrative and a schedule diagram or other written documentation acceptable to the City, showing the detailed work activities involved in a change that may affect the Critical Path and increase the Contract Time. The analysis shall also show the impact of the change on other Work and activities of the proposed schedule adjustment. This sub-network shall be tied to the complete and most current City-accepted progress schedule network, with appropriate logic so that a true analysis of critical path can be made.

2. Failure to comply with the requirements set forth in this subparagraph 6.03F shall constitute a waiver of any claim for delay, disruption, extended overhead and other associated costs or damages.

6.04 CHANGE ORDERS

A. Execution of Change Orders; Modifications: When the City and Contractor agree on the total cost and time of a COR or PCO, the City will prepare for signatures of parties a Change Order to implement the changed Work. No oral instructions of any person whomsoever shall in any manner or degree modify or otherwise affect the terms of this Contract. Change Orders that result in an increase to the amount certified by the Controller for the Project are subject to the Certification by Controller requirements of the City's Charter (see Article 3 of Section 00 52 00) and are effective upon incorporation into an approved Modification.

B. Release of Claims: The parties agree to make good faith efforts to settle all Change Orders full and final at the time of Change Order execution. Accordingly, City and Contractor acknowledge and agree that Change Orders shall contain the following provision, unless and only if the City determines that good cause exists to use different release language for a specific change order:

"The compensation (time and cost) set forth in this Change Order comprises the total compensation due to Contractor, all Subcontractors and all Suppliers, for the Work or change defined in the Change Order, including impact on unchanged Work. By executing this Change Order, Contractor acknowledges and agrees on behalf of itself, all Subcontractors, and all Suppliers, that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extend-

ed field and home overhead costs (if any), delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The execution of this Change Order indicates that the Change Order constitutes full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitutes the total equitable adjustment owed the Contractor, all Subcontractors, and all Suppliers as a result of the change. The Contractor, on behalf of itself, all Subcontractors, and all Suppliers, agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim related to this Change Order. No further claim or request for equitable adjustment of any type for any reasonably foreseeable cause shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this Contract."

C. Change Orders issued under this Article or extensions of Contract Time made necessary by reason thereof shall not in any way release any guarantees or warranties given by Contractor under the provisions of the Contract Documents, nor shall they relieve or release Contractor's sureties of bonds executed under such provisions. The sureties, in executing such bonds, shall be deemed to have expressly agreed to any such Change Orders and to any extension of time made by reason thereof. Contractor shall be responsible for giving notice of any change affecting the Work, Contract Sum or Contract Times that is required to be given to its sureties by the provisions of any bond.

6.05 UNILATERAL CHANGE ORDERS

A. General: When time does not allow for a Change Order to be negotiated, or when the City and Contractor are unable to agree on the cost or time required to complete the change in the Work, the City may issue a Unilateral Change Order instructing Contractor to proceed with a change in the Work based on the City's estimate of cost and time to perform the change in the Work. Upon receipt of a Unilateral Change Order, Contractor shall proceed with the ordered Work.

B. Protest: If time did not allow for Contractor to submit a complete Cost and/or Time Adjustment Proposal prior to the issuance of a Unilateral Change Order, and Contractor disagrees with any terms or conditions set forth in a Unilateral Change Order and wishes to protest the Unilateral Change Order, Contractor shall submit, within 5 working days of receipt of the Unilateral Change Order, a complete Change Order Request (COR) in accordance with the requirements of Paragraph 6.03 (including a complete Cost and/or time Adjustment Proposal, as applicable). If a COR is not timely submitted as required, Contractor waives all rights to additional compensation for said Work, and payment, which shall constitute full

compensation for Work included in the Unilateral Change Order, will be made as set forth in the Unilateral Change Order. The City will review the COR and issue a determination per Paragraph 6.03. If the City denies the COR in whole or in part, Contractor may contest the decision by filing a timely Notice of Potential Claim per subparagraph 6.056C, below. As a point of clarification, the protest procedures specified in this subparagraph do not apply to circumstances where Contractor submitted a complete Cost Proposal and/or Time Adjustment Proposal prior to the issuance of the Unilateral Change Order at issue, and the City subsequently issued a Unilateral Change Order because the parties were unable to timely agree on the cost and/or time to complete the change in the work. In such circumstances, if Contractor disagrees with any terms or conditions set forth in the Unilateral Change Order and wishes to pursue the dispute, Contractor must submit a timely Notice of Potential Claim per subparagraph 6.05(C), below (but does not have to submit a revised/new COR).

C. Claim Notification: Contractor waives all costs exceeding the City's estimate for the Unilateral Change Order Work unless Contractor submits a written Notice of Potential Claim in accordance with the requirements of Article 13. Said Notice shall be submitted no later than 10 working days after occurrence of one of the following potential claim events, whichever occurs first:

1. Contractor submits an invoice for completion of the Unilateral Change Order Work; or
2. upon Contractor's receipt of written notice from the City that the City considers the Unilateral Change Order Work completed.

6.06 COST OF CHANGE ORDER WORK

A. For Change Order Work and Change Order Work proposal pricing, Contractor will be paid the sum of the direct costs for labor, materials and equipment used in performing the Work as determined by the procedures set forth in this subparagraph 6.06A.

1. Labor: Contractor will be paid the cost of labor for the workers used in the actual and direct performance of the Change Order Work. Working foremen will be considered a direct cost of the Change Order Work only if the individual is on Site physically installing the Work. The costs for all supervision, including general superintendents and foremen, will not be considered a direct cost and shall be included the markup defined in subparagraph 6.06B, below. The cost of labor, whether the employer is Contractor, a subcontractor, or other forces, will be the sum of the following:

- a. Actual Wages. The actual wages paid shall include any actual payments by the employer for its workers' health and welfare, pension, vacation, training, and similar purposes.

b. Labor Surcharge. To the actual wages, as defined above, will be added a labor surcharge as set forth in the version of the California Department of Transportation publication entitled Labor Surcharge and Equipment Rental Rates which is in effect on the date upon which the extra work is accomplished and which is incorporated by reference as though set forth in full. That labor surcharge shall constitute full compensation to Contractor for all of its costs for worker's compensation insurance, Social Security, Medicare, federal unemployment insurance, state unemployment insurance, and state training taxes. No other fixed labor burdens will be considered, unless approved in writing by the City.

c. Subsistence and Travel Allowance. The actual subsistence and travel allowance paid to such workers.

2. Materials: The City will pay Contractor on Change Orders only for those materials furnished by Contractor and directly required for performing the Change Order Work. The cost of such material shall be the direct cost, including sales tax, to the purchaser, whether Contractor, Subcontractor or Lower-Tier Subcontractor, from the Supplier thereof and may include the cost of transportation, but delivery charges will not be allowed unless the delivery is specifically required for the Change Order Work. If a trade discount by an actual Supplier is available to Contractor, such discount shall be credited to the City notwithstanding the fact that such discount may not have been taken. If the materials are obtained from a Supplier or source owned wholly or in part by Contractor, payment thereof shall not exceed the current wholesale price for the materials as determined by the City. The term "trade discount" includes the concept of cash discounting.

3. Equipment: Payment for equipment costs on Change Orders will be made at the lesser of the rental rates listed for such equipment as specified in the current edition, at the time of the Change Order, of: (i) the Labor Surcharge & Equipment Rental Rate Book (including its supplement Miscellaneous Equipment Rental Rates) published by the California Department of Transportation and available for download at <http://www.dot.ca.gov/hq/construc/equipmnt.html>; or (ii) "Rental Rate Blue Book," published by EquipmentWatch, a unit of Penton Media, Inc., 181 Metro Drive, Suite 410, San Jose, California 95110, phone (800) 669-3282 (see www.equipmentwatch.com and click on the link "Rental Rate Blue Book" for information).

a. Such rental rates shall be adjusted as appropriate and will be used to compute payments for equipment, regardless of whether the equipment is under Contractor's control through direct ownership, leasing, renting, or other method of acquisition; provided, however, for equipment rented or leased in arm's length transactions with outside vendors, Contractor will be reimbursed at the actual rental or leased invoice rates when such rates are reasonably

in line with the applicable rates specified in the publications identified above as determined by the City. Arm's length rental or lease transactions are those in which the firm involved in the rental or lease of such equipment is not associated with, owned by, have common management, directorship, facilities, or stockholders with the firm renting the equipment. Contractor has the burden of proof to demonstrate that a rental or lease transaction was an arm's length transaction. Contractor shall submit copies of all rental or lease invoices, and other information as requested by the City, if any, as supporting documentation with each PCO cost proposal.

b. For equipment that is not listed in the publications identified above, payment for equipment costs or the City' assessment of the reasonableness of rates in arm's length rental or lease transactions will be based on the lowest quote obtained by the City from either Caltrans or EquipmentWatch. Contractor shall provide all necessary equipment ownership and other information as requested by the City so that the City may obtain a quote. Caltrans will quote rental rates at no cost to the City; however, EquipmentWatch charges for its quote service (a charge that will be paid by the City if the City seeks a quote from EquipmentWatch). Accordingly, if Caltrans provides a quote for a rental rate, then the City, at its sole discretion, may elect not to seek a quote from EquipmentWatch and will use only the Caltrans quote.

c. Daily, weekly, or monthly rates shall be used, whichever are lower. Hourly rates including operator shall not be used. Unless otherwise specified, manufacturer's ratings and manufacturer-approved modifications shall be used to classify equipment for determination of applicable rental rates. If, however, equipment of unwarranted size or type and cost is used, the cost shall be calculated at the rental rate for equipment of proper size and type.

d. The actual time to be paid for equipment shall be the time the equipment is in productive operation on the Work under the Change Order. No payment will be made for time while equipment is inoperative due to breakdown or for non-work days. In addition, the rental time shall not include the time required to move the equipment to and from the Site. Loading and transportation costs will be paid, in lieu of rental time, only if the equipment does not move under its own power and is utilized solely for the Work of the Change Order. No mobilization or demobilization will be allowed for equipment already on the Site. Equipment that is idle, non-operating or in standby mode shall be reimbursed at the lesser of Caltrans' rates, as adjusted by Caltrans' Delay Factor, or EquipmentWatch's rates, as adjusted by its standby calculation, unless such equipment is rented or leased as provided above.

e. Individual pieces of equipment having a replacement value of \$1,000 or less shall be considered to be small tools or small equipment, and no payment will be made since the costs of these tools

and equipment are included as part of Contractor's markup for overhead and profit as defined in subparagraph 6.06B.

f. Payment to Contractor for the use of equipment as set forth herein shall constitute full compensation to Contractor for the cost of fuel, power, oil, lubricants, supplies, small equipment, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, labor (except for equipment operators), and any and all costs to Contractor incidental to the use of the equipment.

B. Costs Included as Part of Markup for Overhead and Profit: To the total of the direct costs computed as provided in subparagraph 6.06A there will be added a markup for overhead and profit as specified in subparagraph 6.06C. The markup shall constitute full compensation for all direct and indirect overhead costs and profit which shall be deemed to include all items of expense not specifically listed in subparagraph 6.06A as direct costs. No separate allowance or itemization for overhead costs shall be allowed. The following is a list, not intended to be comprehensive, of the types of costs that are included in the markup for overhead and profit for all Change Orders including Force Account Work:

1. Field and home office personnel including, but not limited to, principals, project managers, superintendents, supervisory foremen, estimators, project engineers, detailers, draftspersons, schedulers, consultants, watchpersons, payroll clerks, administrative assistants, and secretaries.
2. All field and home office expenses including, but not limited to, field trailers, parking, storage sheds, office equipment and supplies, telephone service at the Site, long-distance telephone calls, fax machines, computers and software, internet and e-mail services, temporary utilities, sanitary facilities and services, janitorial services, small tools and equipment with a cost under \$1,000 each, portable scaffolding, blocking, shores, appliances, job vehicles, security and fencing, conformance to all regulatory requirements including compliance with safety regulations, safety programs and meetings, cartage, warranties, record documents, and all related maintenance costs.
3. Administrative functions including, but not limited to, reviewing, coordinating, distributing, processing, posting, recording, estimating, negotiating, scheduling, schedule updating and revising, expediting, surveying, engineering, drawing, detailing, revising shop drawings, preparing record drawings, carting, cleaning, protecting the Work, and other incidental Work related to the Change Order.
4. Bond and insurance costs.
5. All other costs and taxes required to be paid, but not included under direct costs as defined in subparagraph 6.06A.

C. Contractor's Markup for Overhead and Profit: The following maximum percentage markups shall be applied to the total direct costs for each direct cost category. These markups provide for all indirect and overhead costs and profit:

| Changed/Extra Work –Direct Costs | Markup Percentage |
|---|-------------------|
| Contractor direct labor | 35% |
| Contractor direct materials | 15% |
| Contractor direct equipment | 15% |
| Subcontractor (of any tier) direct labor | 35% |
| Subcontractor/Supplier (of any tier) direct materials | 15% |
| Subcontractor/Supplier (of any tier) direct equipment | 15% |

1. For Work performed by a Subcontractor or Supplier, Contractor shall receive a maximum 10 percent markup on the Subcontractor's total cost (total cost includes Subcontractor's direct costs plus applicable markups specified above). Such additional 10 percent markup shall reimburse Contractor for all additional indirect, administrative and overhead costs associated with Change Order Work performed by the Subcontractor or Supplier.

2. For Work performed by a Lower-Tier Subcontractor or Supplier, Contractor and Subcontractor shall each receive a maximum 10 percent markup on the total cost of their respective Lower-Tier Subcontractors. Such additional 10 percent markup shall reimburse Contractor and Subcontractor for all additional indirect, administrative and overhead costs associated with Change Order Work performed by the Lower Subcontractor or Supplier.

3. In no case shall the sum of the individual markups specified in subparagraphs 6.06C(1) and 6.06C(2), above, exceed 25 percent, regardless of the number of Subcontractor tiers involved in performing the Change Order Work.

D. For Work to be deleted by Change Order, the reduction of the Contract Sum shall be computed on the basis of one or more of the following: (i) Unit Prices stated in the Contract Documents; (ii) where Unit Prices are not applicable, a lump sum based upon the costs which would have been incurred in performing the deleted portions of the Work as calculated in accordance with Paragraph 6.06, supported by a Cost Proposal as required by Paragraph 6.03. Neither Contractor nor the Subcontractor shall receive a markup on their respective Lower-Tier Subcontractors to administer the credit Change Order.

1. When both additions and credits are involved in any one Change Order, Contractor's markup shall be computed on the basis of its direct costs and

labor productivity for the net change in the quantity of the Work. For example, if a Change Order adds 14 units on one Drawing and deletes 5 units on another Drawing, the markup shall be based on the net addition of 9 units. No markup will be allowed if the deductive cost exceeds the additive cost.

2. If the City issues written notice of deletion of a portion of Work after the commencement of such Work or after Contractor has ordered acceptable materials for such Work which cannot be cancelled, or if part or all of such Work is not performed by Contractor because it is unnecessary due to actual Site conditions, payment will be made to Contractor for direct costs of such Work actually performed plus markup for overhead and profit as provided in subparagraph 6.06C.

3. Contractor shall not be compensated for costs incurred after receipt of the City's written notice deleting the portion of Work.

4. Materials ordered by Contractor prior to the City's issuance of a notice of deletion and paid for by the City shall become the property of the City, and the City will pay for the actual cost of any further handling of such material. If the material is returnable to the vendor, and if the City so directs, the material shall be returned and Contractor will be paid only for the actual charges made by the vendor for returning the material including restocking charges.

E. Costs Not Included in the Work: Contractor shall be solely responsible for determining which of its subcontractors receive Change Orders. No additional compensation will be provided Contractor for the cost of its subcontractors to review, post, coordinate, and perform related tasks to administer Change Orders which do not result in direct cost charges from such subcontractors. Such costs shall be considered normal business costs, which are contractually determined between Contractor and its subcontractors prior to Bid, and such costs shall be included in Contractor's Total Bid Price.

F. Records: Contractor shall maintain its records in such a manner as to provide a clear distinction between the direct costs of Change Orders and the cost of original Contract Work. This requirement pertains to all types of Change Orders, as well as the additions, deletions, revisions, CORs, and Claims initiated by Contractor.

6.07 FORCE ACCOUNT WORK

A. General: When additions, deletions, or revisions in the Work are to be paid for on a Force Account basis, all direct costs itemized in subparagraph 6.06A shall be subject to the approval of the City and compensation will be determined as set forth herein.

1. The City will direct Contractor to proceed with the Work on a Force Account basis, and the City will establish a "not to exceed" budget.

2. All requirements regarding direct costs and markup for overhead and profit provided in Paragraph 6.06B shall apply to Force Account Work. However, the City will pay only the actual necessary costs verified in the field by the City on a daily basis.

3. Contractor shall be responsible for all costs related to the documentation, data preparation, and administration of Force Account Work. Compensation for such costs shall be fully covered by the markup for overhead and profit markup as provided in subparagraph 6.06C.

B. Notification and Verification: Contractor shall notify the City in writing at least 24 hours in advance of its schedule before proceeding with the Force Account Work. All Force Account Work shall be witnessed, documented, and approved in writing by the City on the day that the Work is performed. Contractor will not be compensated for Force Account Work if Contractor fails to provide timely notice to the City before commencing the Force Account Work. In addition, Contractor shall notify the City when the cumulative costs incurred by Contractor for the Force Account Work equal 80 percent of the budget pre-established by the City. Contractor will not be compensated for Force Account Work exceeding the "not to exceed" budget amount if Contractor fails to provide the required notice before exceeding 80 percent of the Force Account budget.

C. Reports: Contractor shall diligently proceed with the approved Force Account Work and shall submit to the City no later than 12:00 p.m. of the day following performance of Force Account Work a daily Force Account Work report on a form obtained from the City. The report shall provide an itemized, detailed account of the daily Force Account labor, material, and equipment, including names of the individuals and the specific pieces of equipment identified by manufacturer's model type and serial number. Contractor's authorized representative shall complete and sign the report. Contractor will not be compensated for Force Account Work for which said timely report is not completed and submitted to the City.

D. Records: Contractor shall maintain detailed records of all Work done on a Force Account basis. Contractor shall provide a weekly Force Account summary indicating the status of each Force Account Work directive in terms of actual costs incurred as a percent of the budget for the respective Force Account Work directive and the estimated percentage completion of the Force Account Work.

E. Agreement: If Contractor and the City reach a negotiated, signed agreement on the cost of a Change Order while the Work is proceeding on a Force Account basis, Contractor's signed written reports shall be discontinued and all previously signed reports shall become invalid.

6.08 UNIT PRICE WORK

A. General: Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Sum will be deemed to include for all Unit Price Work an amount equal to the product of the established unit price Bid for each Item of Unit Price Work times the estimated quantity of each Item as indicated in the Schedule of Bid Prices. The estimated quantities of unit price Items are not guaranteed and are solely for the purpose of comparing Bids and determining an initial Contract Total Bid Price. Determination of the actual quantities and classifications of Unit Price Work will be made in accordance with Division 01, and the Contract Sum will be adjusted based on the actual quantities of Work performed.

1. Each unit price on the Schedule of Bid Prices shall include an amount considered by Contractor to cover Contractor's markup for overhead and profit as defined in Paragraph 6.06.

B. Quantity Increases: Should the total quantity of any Item of Unit Price Work performed exceed the estimated quantity indicated on the Schedule of Bid Prices by more than 25 percent, the Work in excess of 125 percent of such estimated quantity will be paid for by adjusting the unit price Bid therefor as follows:

1. The unit price will be adjusted by the difference between the unit price Bid for the Item and the actual unit cost, determined as follows, of the total quantity of Work performed under said Item. The actual unit cost will be determined based on the direct costs per unit less fixed costs, which will be deemed to have been recovered by Contractor with the payments made for 125 percent of the quantity indicated on the Schedule of Bid Prices, and markup for overhead and profit as provided in Paragraph 6.06.

2. When the compensation payable for the number of units of an Item of Unit Price Work performed in excess of 125 percent of the quantity as indicated on the Schedule of Bid Price is less than \$5,000 at the unit price Bid therefor, the City reserves the right to make no adjustment in said unit price if the City so elects, except that an adjustment will be made if Contractor submits a Change Order Request (COR) in accordance with the requirements of Paragraph 6.03.

3. At the City's option, payment for Unit Price Work in such excess will be made on a Force Account basis as provided in Paragraph 6.07 in lieu of adjusting the unit price in accordance with subparagraphs 6.08B.1 or 6.08B.2 above.

C. Quantity Decreases: Should the total quantity of any Item of Unit Price Work performed be less than 75 percent of the estimated quantity indicated on the Schedule of Bid Prices, an adjustment in compensation will not be made unless Contractor submits a COR in accordance with Paragraph 6.03. If Contractor

so requests, the quantity of said Item performed will be paid for by adjusting the unit price Bid therefor as follows:

1. The unit price will be adjusted by the difference between the unit price Bid for the Item and the actual unit cost, determined based on the direct costs per unit, including fixed costs described under subparagraph 6.08B.1, and markup for overhead and profit as provided in Paragraph 6.06, of the total quantity of Work performed under said Item, provided however, that in no case shall the payment for such Work be less than that which would be made at the unit price Bid therefor.

2. The payment for the total pay quantity of such Item of Unit Price Work will in no case exceed the payment which would be made for the performance of 75 percent of the estimated quantity as indicated on the Schedule of Bid Prices at the unit price Bid therefor.

3. At the City's option, payment for the Work involved in such deficiency will be made on a Force Account basis as provided in Paragraph 6.07 in lieu of adjusting the unit price in accordance with subparagraphs 6.08C.1 and 6.08C.2 above.

ARTICLE 7 - TIME

7.01 PROGRESS AND COMPLETION

A. Contractor shall commence the Work of the Contract within 5 days from the start date established in the Notice to Proceed issued by the City and shall diligently and continuously prosecute the Work to its completion.

B. No demolition, removal, or reconstruction Work at the Site shall be started until Contractor has presented evidence satisfactory to the City Representative that it can, upon commencement, prosecute the Work continuously and expeditiously, and a Notice to Proceed has been issued by the City for Work to start.

C. The continuous prosecution of the Work by Contractor shall be subject only to the delays defined in Paragraph 7.02. The start of Work shall include attendance at pre-construction conferences; joint survey and documentation of existing conditions, if required by the Contract Documents; preparation and submittal of shop drawings, equipment lists, schedule of values, progress schedule, submittal schedule, and requests for substitutions; and other similar activities.

D. The Work of this Contract shall be brought to Substantial Completion and Final Completion, as determined by the City, in the manner provided for in the Contract Documents within the limits of Contract Time set forth in Section 00 73 02, from and after the official start date established in the written Notice to Proceed.

1. Issuance of a Notice of Substantial Completion may not precede the issuance of a Temporary Certificate of Occupancy, if such Temporary Certificate of Occupancy is required by the authority having jurisdiction over the Work.

2. During the time between Substantial Completion and Final Completion, Contractor shall complete the punch list work, but Contractor shall not disrupt the City's beneficial occupancy of the Project or any public use of the Work.

3. Final Completion is a condition precedent to final payment. The City will issue final payment to Contractor acknowledging that the Project is complete and the Work is acceptable to the City.

4. The limits of Contract Time as specified in Section 00 73 02 shall not be affected by the acceptance of any of the Alternate Bid Items included in the Contract Documents provided that said Alternate Bid Items were incorporated into the Contract within the number of months after the date of the Order of Award of the Contract specified on Section 00 41 00.

5. The specified limits of Contract Time may be changed only by a Change Order. Claims for compensation because of adjustment of the limits of Contract Time shall be made in accordance with the requirements of Paragraph 13.03.

E. Contractor shall at all times keep on the premises sufficient material and employ sufficient supervision and workers to prosecute the Work at the rate necessary to reach completion of the Project within the specified limits of Contract Time required by the Contract Documents. Contractor shall not start the Work unless it has sufficient equipment and materials available for the Project to allow diligent and continuous prosecution of the Work.

F. Contractor shall be responsible to maintain its schedule so as not to delay the progress of the Project or the schedules of other contractors. Contractor is required by virtue of this Contract to cooperate in every way possible with other contractors in order to maintain its schedule and complete the Work within the specified limits of Contract Time. No additional compensation will be paid for such cooperation.

G. If, in the opinion of the City, Contractor has fallen behind schedule according to Contractor's most current and City-approved update of the progress schedule submitted as set forth in Paragraph 3.09, or if Contractor delays the progress of other contractors, and is not entitled to an extension of time as provided in these Contract Documents, Contractor shall take some or all of the steps as follows to improve its progress at no additional cost to the City and shall submit operational plans to the City to demonstrate the manner in which the desired rate of progress will be regained:

1. increase construction manpower in such quantities and crafts as will substantially eliminate the backlog of Work;

2. increase, when permitted in writing by the City, the number of working hours per shift, shifts per working day, working days per week, or the amount of construction equipment or any combination of the foregoing, sufficiently to substantially eliminate the backlog of Work;

3. reschedule activities to achieve maximum practical concurrence of accomplishment of activities;

4. expedite delivery of materials and equipment such as by airfreight;

5. accelerate the priority of manufacture, fabrication and shipment preparation of Work on order with the Supplier should such priority lists exist as a normal course of its business; and

6. any other means deemed appropriate by the City.

H. The City may direct Contractor to take steps enumerated in subparagraph 7.01G for the convenience of the City and if Contractor is not at fault. Should the City Representative direct Contractor to take measures previously described, the City will reimburse Contractor for reasonable costs of complying.

I. Should Contractor at any time during the progress of Work, refuse, neglect, or be unable for avoidable reasons to supply sufficient resources to prosecute the Work continuously and at the rate necessary to complete the Work within the specified limits of Contract Time, in accordance with the currently accepted progress schedule update, the City shall have the right to enter Default and terminate the Contract for cause as set forth in Paragraph 14.01.

7.02 DELAYS AND EXTENSIONS OF TIME

A. Unavoidable Delays: Pursuant to section 6.22(h)(2)(C) of the San Francisco Administrative Code and for the purposes of the Contract Documents the term Unavoidable Delay shall mean an interruption of the Work beyond the control of Contractor that could not have been avoided by Contractor's exercising care, prudence, foresight, and diligence. Moreover, in accordance with the progress schedule requirements of Paragraph 3.09, Contractor shall demonstrate that the Unavoidable Delay actually extends the most current Contract Substantial Completion date. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor (i.e., Avoidable Delays).

1. Non-compensable Delay/Time Extension. Contractor will be entitled to a non-compensable time extension only for the following types of Unavoidable Delay: Acts of God (as used herein, includes only

earthquakes in excess of a magnitude 3.5 on the Richter Scale and tidal waves); acts of the public enemy; adverse weather conditions (in excess of the number of days specified in Paragraph 7.02C or the Supplementary Conditions); fires; floods; windstorms; tornadoes; wars; riots; insurrections; epidemics; quarantine restrictions; strikes; lockouts; sit-downs; slow-downs; other labor trouble; labor shortages; inability of Contractor to procure labor; material shortages; inability of Contractor to procure material; fuel shortages; freight embargoes; acts of a government agency; priorities or privileges established for the manufacture, assembly or allotment of materials by order, decree, or otherwise of the United States or by any department, bureau, commission, committee, agent or administrator of any legally constituted public authority; changes in the Work ordered by the City insofar as they necessarily require additional time in which to complete the Project; the prevention by the City of Contractor from commencing or prosecuting the Work; the prevention of Contractor from commencing or prosecuting the Work because of the acts of others, excepting Contractor's Subcontractors and Suppliers of all tiers; the prevention of Contractor from commencing or prosecuting the Work because of failure of the City to furnish the necessary materials, when required by the Contract Documents and when requested by Contractor in the manner provided in the Contract Documents; and inability to procure or failure of public utility service.

a. Whenever Contractor has knowledge that any actual or potential labor dispute is delaying or is threatening to delay the timely performance of its Contract, Contractor shall immediately give written notice thereof, including all relevant information with respect thereto, to the City.

b. In addition, Contractor shall take all appropriate measures to eliminate or minimize the effect of such labor dispute on the current, City-approved progress schedule, including but not limited to such measures as: promptly seeking appropriate injunctive relief; filing appropriate charges with the National Labor Relations Board under the applicable provisions of the Labor Management Relations Act of 1947, as amended; filing appropriate damage actions; taking such measures as establishing a reserved gate, as appropriate; if reasonably feasible, seeking other sources of supply or service; or any other measures that may be appropriately utilized as deemed by the City to limit or eliminate the effect of the labor dispute on the Work. To the extent Contractor fails to initiate appropriate measures, it is not entitled to an extension of Contract Time. In addition, any delay impact caused by said failure on the progress schedule will be considered a Contractor-caused delay under any and all applicable provisions of the Contract Documents.

2. Compensable Delay/Time Extension. Contractor shall be entitled to a compensable time extension for an Unavoidable Delay caused solely by

(i) the failure of the City to furnish necessary rights-of-way in accordance with the schedule set forth in the Contract Documents; (ii) failure by the City to deliver materials or equipment shown in the Contract Documents to be furnished by the City in accordance with the schedule specified in the Contract Documents where such failure is not the result of any default or misconduct of Contractor; (iii) the failure of the City to perform some other contract obligation where such failure is not the result of any default or misconduct of Contractor; (iv) the suspension of the Work by the City for its own convenience or benefit where such decision is not the result of any default or misconduct of Contractor; or (v) a materially differing site condition per Paragraph 3.03, provided such City-caused Unavoidable Delay is critical, extends the most current Contract Substantial Completion Date, and is not concurrent with a Contractor-caused delay (Avoidable Delay) or other type of Unavoidable Delay as previously defined (not caused by the City). If for any reason one or more of the conditions prescribed above is held legally unenforceable, the remaining conditions must be met as a condition to obtaining a compensable time extension. All other types of Unavoidable Delay shall not entitle Contractor to a compensable time extension. Refer to Paragraph 7.03 for more information regarding compensable delay.

3. Concurrent Delay. Contractor shall be entitled to a non-compensable time extension only in the event that a City-caused (otherwise compensable) delay is concurrent with either a Contractor-caused delay or a non-compensable Unavoidable Delay.

B. Avoidable Delays: The term Avoidable Delay shall include, but is not limited to, the following:

1. any delay which could have been avoided by the exercise of care, prudence, foresight and diligence on the part of Contractor or its Subcontractors or Suppliers of any tier; or

2. any delay in the prosecution of parts of the Work, which may in itself be Unavoidable, but which does not necessarily prevent or delay the prosecution of other parts of the Work, nor delay the date of Substantial Completion based on the specified limits of Contract Time; or

3. any delay caused by the untimely review by Contractor of the Contract Drawings and Specifications pursuant to subparagraph 3.01C; or

4. any delay resulting from the City responding to Contractor-generated RFIs in accordance with subparagraph 6.02B; or

5. any delay arising from an interruption in the prosecution of the Work resulting from a reasonable interference from other contractors employed by the City, but does not delay the date of Substantial Completion based on the specified limit of Contract Time.

6. Contractor shall not be entitled to, and hereby conclusively waives, any right to recovery of compensation, costs or damages for delay, disruptions, hindrances or interferences (including without limitation interruption of schedules, extended, excess of extraordinary field and indirect overhead costs, loss of productivity and the impact, ripple or cumulative effect on other Work) that are the result of Avoidable Delay.

C. Adverse Weather Delays:

1. Adverse weather shall not be a prima facie reason for the granting of a non-compensable time extension, and Contractor shall make every effort to continue work under prevailing conditions. Such efforts by Contractor shall include, but are not limited to, providing temporary gravel roads; installing a rain dewatering system; protecting interior and exterior areas exposed to rain, wind, and extreme temperatures; and providing temporary heat where required for Work to proceed without delay.

2. The City may classify an adverse weather day as a non-compensable Unavoidable Delay, provided Contractor made efforts to work during adverse weather and to avoid the impacts of adverse weather to its schedule. If such an event occurs, and Contractor is prevented by adverse weather or conditions from proceeding with at least 75 percent of the scheduled labor, material and equipment resources for at least 5 hours per work day on activities shown as critical on the most current and City-approved progress schedule update, the delay will be classified as an Unavoidable Delay, and Contractor will be granted a non-compensable time extension.

3. Regardless of the type and severity of the adverse weather, Contractor shall be responsible for all costs of its efforts to mitigate the impacts of adverse weather to its schedule during the Contract Time.

4. Adverse weather shall mean rain, wind-storm, flood, or other natural phenomenon occurring at the Site which exceed the anticipated number of days of inclement weather as provided herein and which are proven by Contractor to be detrimental to the progress of the Work. Contractor shall plan the Work to allow for the following number of days of inclement weather during normal working hours:

| <u>Month</u> | <u>Rain Days</u> | <u>Month</u> | <u>Rain Days</u> |
|--------------|------------------|--------------|------------------|
| January | 3 | July | 0 |
| February | 3 | August | 0 |
| March | 3 | September | 0 |
| April | 1 | October | 1 |
| May | 0 | November | 3 |
| June | 0 | December | 3 |

a. Contractor's progress schedule shall incorporate prudent allowance for the anticipated number of days of inclement weather specified herein.

b. The Contract Time allowed for completion of Work specified in Contract Time and Liquidated Damages (Section 00 73 02) is predicated on the anticipated number of days of inclement weather specified herein.

c. Contractor shall not be entitled to receive a time extension related to weather until the anticipated number of days specified herein for the month of occurrence of the inclement weather event has been exceeded.

d. In the event that there are months with less than the anticipated number of inclement weather days specified herein, the City reserves the right to transfer the unused inclement weather days to other months of the Contract Time for which Contractor has requested a time extension because of adverse weather.

e. In the event that there is a month with more than the anticipated number of inclement weather days specified herein, and Contractor has requested a time extension because of adverse weather, the City reserves the right to transfer unused inclement weather days from other months of the Contract Time to the month in question. Contractor shall not be entitled to receive a time extension related to weather until the anticipated number of days specified herein for the month of occurrence of the inclement weather event, plus any inclement weather days transferred by the City from other months of the Contract Time, has been exceeded.

D. Notice of Delay:

1. Pursuant to section 6.22(h)(2).(D) of the San Francisco Administrative Code, Contractor shall notify the City in writing promptly of all anticipated delays in the prosecution of the Work and, in any event, promptly upon the occurrence of a delay. The City may take steps to prevent the occurrence or continuance of the delay, and the City may determine to what extent Substantial Completion is delayed thereby.

2. Said notice shall constitute an application for an extension of time and payment for a compensable time extension, if applicable, only if the notice requests such time extension, specifies whether Contractor believes the time extension is compensable or non-compensable, sets forth Contractor's estimate of the additional time required together with a full recital of the causes of Unavoidable Delays relied upon, and meets all requirements for a Notice of Potential Claim as set forth in Article 13, including the requirement that such Notice be submitted to the City within 10 days of the event which the Contractor contends affected the performance of the Work.

3. The City's determination of whether an extension of time will be granted and whether the extension is compensable or non-compensable will be based on Contractor's demonstration to the City's satisfaction that such Unavoidable Delays will extend Contractor's current critical path on the current, City-approved updated progress schedule or require the formulation of a new extended critical path.

4. If Contractor does not submit a notice as set forth in subparagraph 7.02D.2, above, Contractor thereby admits the occurrence had no effect on the length of its duration of Work and no extension of time is necessary, and Contractor understands and agrees that no extension of time or adjustment of the Contract Sum will be granted by the City.

E. Extensions of Time:

1. In the event it is deemed necessary by the City to extend the time for completion of the Work to be performed under these Contract Documents beyond the specified limits of Contract Time specified in the Contract Documents, such extensions shall in no way release any guarantees or warranties given by Contractor pursuant to the provisions of the Contract Documents, nor shall such extension of time relieve or release the sureties on the bonds executed pursuant to said provision.

2. The sureties in executing such bonds shall be deemed to have expressly agreed to any such extension of time.

3. The length of any extension of time shall be limited to the extent that the commencement, prosecution and completion of the Work are delayed by the event as determined by the City in accordance with section 6.22(h)(2)(D) of the San Francisco Administrative Code.

4. Adjustments to the Contract Sum for compensable time extensions shall be per Paragraph 7.03.

5. Extensions of time that cumulatively extend the Contract Time in excess of 10 percent of the original contract duration as specified in Section 00 73 02 shall be subject to the approval of the Mayor (or the Mayor's designee) or the Commission (or the Commission's designee), as appropriate.

6. In no event shall such extensions of time be granted subsequent to the date of Final Completion.

7. Granting of an extension of time because of Unavoidable Delays shall in no way operate as a waiver on the part of the City of the right to collect liquidated damages for other delays or to collect other damages or to pursue other rights and interests which the City is entitled.

8. Should Contractor, any subcontractor of any tier or any supplier of any tier seek an extension of time for the completion of the Work under the pro-

visions of this Paragraph 7.02, Contractor and its subcontractor or supplier shall submit justification for the extension of the time requested and otherwise comply with all provisions of these Contract Documents with respect to requests for extensions of time.

9. Neither this provision, nor any other provision of the Contract Documents, are intended by the parties to be contrary to any express provision of law. The parties specifically agree, acknowledge and warrant that neither this provision nor any other provision of the Contract Documents has for its object, directly or indirectly, the exemption of the City, the City Representative, the City's consultants, and their respective directors, officers, members, employees, and authorized representatives from responsibility of their own sole negligence, violation of law or other willful injury to the person or property of another.

7.03 ADJUSTMENTS TO THE CONTRACT SUM FOR COMPENSABLE DELAY/ COMPENSABLE TIME EXTENSION

A. The Contract Sum will be adjusted for a compensable delay as specified in subparagraph 7.03C, below, if, and only if, Contractor demonstrates that it is entitled to a compensable time extension per subparagraph 7.02A.2 and timely complies with the Notice of Delay requirements of these General Conditions.

B. The provisions of this Paragraph 7.03 and subparagraph 7.02A.2 do not apply to Change Order Work paid under Paragraphs 6.06 (Cost of Change Order Work) or 6.08 (Unit Price Work), or to Force Account Work performed under Paragraph 6.07. Contractor's right to recovery of compensation, costs, expenses and damages for delay, disruption, hindrance and interference (including without limitation interruption of schedules, extended, excess or extraordinary field and home office overhead costs, loss of productivity and the impact, ripple or cumulative effect on other Work) that are the result of extras, changes, additions or deletions in the Work shall be limited to the adjustment of the Contract Sum (including without limitation the mark-ups specified) as set forth in Paragraphs 6.06 or 6.08 of these General Conditions. Those Paragraphs include markups to cover field and home office overhead costs. Overhead claims in excess of the markups specified are not allowed for Change Order Work or Force Account Work.

1. The Contract Sum adjustment provisions set forth in Paragraphs 6.06 and 6.08 constitute the sole, exclusive and complete compensation that the City is obligated to pay Contractor for all costs, expenses and damages incurred by Contractor and its Subcontractors and Suppliers of all tiers associated with Change Order Work or Force Account Work.

2. If Contractor perform Change Order Work or Force Account Work during a compensable delay

period and seeks additional compensation for the compensable delay (i.e., above the markups specified in Paragraph 6.06), then the City will deduct the field and home office overhead costs paid under Paragraph 6.06 from the compensation owed under subparagraph 7.03C, below, for the same time period as follows. For field office overhead paid under Paragraph 6.06, the City will deduct 5-1/2 percent of the value of the added Work (added through Change Order or Force Account). For home office overhead paid under Paragraph 6.06, the City will deduct 5 percent of the value of added Work.

C. Field Office Overhead – Daily Rate: If Contractor meets the conditions for a compensable time extension specified in subparagraph 7.03A, above, then the City shall pay Contractor such amount as the City may find to be fair and reasonable compensation for such part of Contractor's actual loss that was unavoidable. Fair and reasonable compensation shall be calculated as follows:

1. Within the time and in the format specified by the City, Contractor shall submit a detailed listing of daily field office overhead cost components which are time related. The individual cost components shall represent costs which have been or will be incurred or increased as a sole or direct result of the compensable time extension. This listing may include without limitation onsite project management, supervision, engineering, and clerical salaries; onsite office utilities and rent; onsite company vehicles and their operating expenses; site maintenance, safety and security expenses.

2. The listing of the daily field office overhead cost components described above must be based on the Contractor's actual field office overhead costs. This listing must be submitted with the first Notice of Delay that includes a request for a compensable time extension. If Contractor's time-related daily field office overhead cost changes for subsequent compensable delays, then the Contractor shall submit a new overhead rate based on the Contractor's overhead costs at the time of the subsequent delay.

3. The daily field office overhead rate shall be multiplied by the number of days the Contract is to be extended. No markup for overhead costs and no profit allowance shall be allowed on the extended daily field office overhead cost.

4. The information submitted as required above shall be submitted in sufficient detail to allow review, and shall be prepared in accordance with generally accepted accounting principles. The City shall have the right to audit Contractor's costs under Paragraph 2.05 of these General Conditions if the City Representative considers the submitted costs to be excessive, questionable, or unsupported.

D. Absent extraordinary circumstances, extended home office overhead is not allowable. Extended home office overhead and its application to a com-

pensable time extension will not be allowed unless Contractor demonstrates to the satisfaction of the City that each and every of the following conditions apply to the delay period: (i) the delay was caused by the City and meets the conditions of Paragraph 7.02A.2; (ii) such City-caused delay was of an indefinite (unknown) duration; (iii) the City-caused delay suspended most, if not all, project Work; (iv) the City caused delay resulted in a substantial disruption or decrease in the income stream from the project; (v) during the City-caused delay, Contractor was required to remain ready to resume Contract Work immediately; and (vi) Contractor was unable to secure comparable replacement work during the impacted period to replace the reduced cash flow from this project. If Contractor believes that it may be entitled to extended home office overhead, it must notify the City through the Notice of Delay process specified in subparagraph 7.02D, above. Within the time and in the format specified by the City, Contractor shall submit detailed evidence of entitlement and the requested rate, including all supporting evidence from which the City may make a determination. Supporting evidence shall be prepared in accordance with generally accepted accounting principles, and the City shall have the right to audit Contractor's submittal under Paragraph 2.05 of these General Conditions. If the City determines that extended home office overhead is available, then the City shall have the discretion to determine the methodology for calculation of the rate.

7.04 LIQUIDATED DAMAGES

A. Determination of Damages:

1. The actual fact of the occurrence of damages and the actual amount of the damages which the City would suffer if the Work were not completed within the specified limits of Contract Time are dependent upon many circumstances and conditions which could prevail in various combinations and, from the nature of the case, it is impracticable and extremely difficult to fix the actual damages.

2. Damages which the City would suffer in the event of delay include, but are not limited to, costs of renting equivalent space, expenses of prolonged employment of an architectural, engineering and construction management staff comprised of both City Representatives and consultants; costs of administration, inspection and supervision; and the loss suffered by the public within the City and County of San Francisco by reasons of the delay in the construction of the Project to serve the public at the earliest possible time.

B. Agreed Amount of Damages: It is understood and agreed by Contractor and City that if all the Work specified or indicated in the Contract Documents is not completed within the specified limits of Contract Time, or within such time limits as extended in accordance with Paragraph 7.02, actual damages will

be sustained by the City in the event of and by reason of such delay.

1. Contractor and City agree that the amount of liquidated damages set forth in Section 00 73 02 represents the Parties' reasonable estimate of the approximate damages which the City will sustain for each and every day of delay beyond the number of days specified in Section 00 73 02 for Substantial Completion, as such date may be modified in accordance with the Contract Documents.

2. Contractor and City agree that the amount of liquidated damages set forth in Section 00 73 02 represents the Parties' reasonable estimate of the approximate damages which the City will sustain for each and every day of delay beyond the number of days specified in Section 00 73 02 for completing the punch list of remedial Work and achieving Final Completion, as such date may be modified in accordance with the Contract Documents.

3. Contractor and City agree that the amount of liquidated damages set forth in Section 00 73 02 represents the Parties' reasonable estimate of the approximate damages which the City will sustain for each and every day (or other measure) of delay beyond the number of days (or other measure) specified in Section 00 73 02 for completing the specified critical, independent milestone Work (e.g., shutdown Work), if any, as such date may be modified in accordance with the Contract Documents.

4. It is therefore agreed that Contractor shall pay such amount of liquidated damages as specified in Section 00 73 02, and in case such amount is not paid, Contractor agrees that the City may deduct the amount therefor from any money due or that may become due Contractor under the Contract.

C. Payment of Damages:

1. Should Contractor become liable for liquidated damages, the City, in addition to all other remedies provided by law, shall have the right to withhold any and all retained percentages of payments as provided in Paragraph 9.06 which would otherwise be due or become due Contractor until the liability of Contractor has finally been determined.

2. The City shall have the right to use and apply such retained percentages, in whole or in part, to reimburse the City for all liquidated damages due or to become due to the City. Any remaining balance of such retained percentages shall be paid to Contractor only after discharge in full of all liability incurred by Contractor.

3. If the retained percentage is not sufficient to discharge all such liabilities of Contractor, Contractor and its sureties shall continue to remain liable to the City until all such liabilities are satisfied in full.

4. Should the retention of moneys due or to become due to Contractor be insufficient to cover

such damages, Contractor shall pay forthwith the remainder to the City.

ARTICLE 8 - INSPECTION AND CORRECTION OF WORK

8.01 UNCOVERING OF WORK

A. No Work or portion of Work shall be covered until inspected by the City or other public authorities having jurisdiction as required by the Contract Documents.

B. If any part of the Work is covered contrary to the request or direction of the City Representative or other public authority having jurisdiction, or contrary to the requirements of the Contract Documents, Contractor must, upon written request, uncover it for inspection by the City or other public authorities having jurisdiction and subsequently cover the Work in accordance with the requirements of the Contract Documents without adjustment to the Contract Time or Contract Sum. The provisions and obligations set forth in this subparagraph shall apply even if the City or other public authorities having jurisdiction ultimately determine (after uncovering and inspection) that the underlying Work in question conforms to the requirements of the Contract Documents.

C. Should the City or other public authorities having jurisdiction wish to either (i) re-inspect a portion of the Work that has been covered by Contractor in compliance with subparagraph 8.01A, above, or (ii) inspect a portion of the Work that has been covered by Contractor which is not required by the Contract Documents to be observed or inspected prior to its being covered and which the City or other public authorities having jurisdiction did not specifically request to observe prior to its being covered, Contractor shall uncover the applicable portion of the Work upon written request. If the City or other public authorities having jurisdiction determine that the Work uncovered conforms to the requirements of the Contract Documents, then the City will pay the costs of uncovering and replacement of the cover through a Change Order and will adjust the Contract Time by Change Order if the uncovering and replacement Work extends the most current Substantial Completion or Final Completion date, as applicable. If, however, the City or other public authority having jurisdiction determine that the Work uncovered does not conform to the requirements of the Contract Documents, then Contractor shall pay the costs of uncovering and replacement and shall not be entitled to an adjustment of the Contract Time or the Contract Sum.

8.02 TESTS AND INSPECTIONS

A. All testing and inspection of the Work required by the Contract Documents (other than special in-

spections as set forth in subparagraph 8.02B below) shall be arranged and paid for by Contractor through an independent testing laboratory, unless specifically indicated in the Contract Documents to be the responsibility of the City or other authority having jurisdiction.

B. Special inspections to be performed by the City as specified in the Contract Documents or as required to comply with the Code or other agency having jurisdiction shall be performed at the City's expense. Contractor shall give the City Representative, the City's independent testing laboratory, special inspectors, and representatives from other authorities having jurisdiction a minimum of 10 working days notice, excluding weekends and City holidays, of when and where such special inspections are required so the City may arrange for the appropriate City representatives and inspectors, and representatives from other public authorities having jurisdiction, to be present to perform the necessary inspections or tests.

1. The City reserves the right to modify the scope of, or to reassign, any of the testing and inspection services specified in the various sections of the Contract Documents to be performed by a testing agency or consultant retained by the City in connection with the Work.

C. If the City or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included in subparagraph 8.02A, the City will order the performance of such services by qualified independent testing agencies, or consultants as may reasonably be required. The City shall bear such costs except as otherwise provided in subparagraph 8.02D.

D. If such testing, inspection or approval reveal failure of the portion of the Work to comply with requirements of the Contract Documents, Contractor shall bear all costs made necessary by such failure including costs of repeated procedures and compensation for the City's additional testing and inspection services and expenses.

1. If the City's observation of any inspection or testing undertaken pursuant to this Paragraph 8.02 reveals a failure in any one of a number of identical or similar items or elements incorporated in the Work to comply: (i) with the requirements of the Contract Documents or (ii) with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction with respect to the performance of the Work, then the City will have the authority to order inspection and testing of all such items or elements of the Work, or of a representative number of such items or elements of the Work, as it may consider necessary or advisable.

2. Contractor shall bear all costs thereof, including reimbursement to the City for the City's additional testing and inspection services if any are required, made necessary thereby. However, neither

the City's authority to act under Paragraph 8.02 nor any decision made by the City Representative in good faith either to exercise or not to exercise such authority, shall give rise to any duty or responsibility of the City to Contractor, any subcontractor, or any of their agents or employees, or any other person performing any of the Work.

E. Neither observation by the City nor inspections, tests, or approvals by the City's inspectors or testing agencies and consultants, or by other public authorities having jurisdiction, shall relieve Contractor from Contractor's obligation to perform and provide quality control services to assure that the Work conforms to the requirements of the Contract Documents.

F. Failure or neglect on the part of the City or any of its authorized agents or representatives to condemn or reject Non-conforming Work or defective materials shall not be construed:

1. to imply acceptance of such Non-conforming Work or materials; or

2. as barring the City at any subsequent time from the recovery of money needed to build anew all portions of such Non-conforming Work; or

3. to relieve Contractor from the responsibility of correcting Non-conforming Work or materials.

G. Unless otherwise required by the Contract Documents, required certificates of testing, inspection or approval shall be secured by Contractor and furnished to the City in accordance with the Specifications.

H. Contractor shall provide promptly all facilities, labor, equipment, and material reasonably needed for performing such safe and convenient inspection and test as may be required by the City. Tests or inspections conducted pursuant to the Contract Documents will be made promptly to avoid unreasonable delay in the Work.

1. The City reserves the right to charge to Contractor any additional cost of inspection, including travel, transportation, lodging, etc., or test when the Work, material or workmanship is not ready for testing or inspection at the specified time.

8.03 CORRECTION OF NON-CONFORMING WORK AND GUARANTEE TO REPAIR PERIOD

A. Contractor shall (i) correct Non-conforming Work that becomes apparent during the progress of the Work or during the Guarantee to Repair Period and (ii) replace, repair, or restore to the City's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of Non-conforming Work or correction of Non-conforming Work. Contractor shall promptly commence such correction, replacement, repair, or

restoration upon notice from the City Representative, but in no case later than 10 days after receipt of such notice; and Contractor shall diligently and continuously prosecute such correction to completion. Contractor shall bear all costs of such correction, replacement, repair, or restoration, and all damages resulting from such Non-conforming Work, including without limitation additional testing, inspection, and compensation for City Representative's services and expenses (including the City's expenses at the labor rates included in the contracts between the City and the City's testing and inspection services).

B. The term "Guarantee to Repair Period" means a period of one (1) year, unless a longer period of time is specified in the General Requirements or other Contract Documents or prescribed by applicable laws and regulations, commencing as follows:

1. For any Work not described as incomplete in the Punch List / Final Completion, on the date of Substantial Completion.

2. For space beneficially occupied or for separate systems fully utilized prior to Substantial Completion per Paragraph 9.07 (Partial Utilization), as established in a Notice of Partial Utilization.

3. For all Work other than B.1 and B.2, above, from the date of Final Completion.

C. The requirement to correct Non-conforming Work shall continue until one year after the date of correction of repaired or replaced items, or such longer period as may be specified in the Contract Documents or mutually agreed to by Contractor and City.

D. If Contractor fails to commence correction of Non-conforming Work or fails to diligently prosecute such correction within 10 working days of the date of written notification from the City, the City may correct the Non-conforming Work in accordance with Paragraph 2.04 or may remove it and store the salvageable materials or equipment at Contractor's expense. If Contractor does not pay the costs of such removal and storage within 5 working days after written notice, the City may sell, auction, or discard such materials and equipment. The City will credit Contractor's account for the excess proceeds of such sale, if any. The City will deduct from Contractor's account the costs of damages to the Work, rectifying the Non-conforming Work, removing and storing such salvageable materials and equipment, and discarding the materials and equipment, if any. If the proceeds fail to cover said costs and damages, the Contract Sum shall be reduced by the deficit. If the current Contract unpaid balance and retention is insufficient to cover such amount, Contractor shall reimburse the City.

E. If immediate correction of Non-conforming Work is required for life safety or the protection of property and is performed by City or a separate contractor, Contractor shall pay to the City all reasonable

costs of correcting such Non-conforming Work. Contractor shall replace, repair, or restore to City's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of such Non-conforming Work or the correction of such Non-conforming Work.

F. This requirement to correct Non-conforming Work and all similar requirements applicable to equipment of subcontractors of any tier or suppliers used in or as a part of the Work (whether on equipment of the nature above specified or otherwise) shall inure to the benefit of the City without necessity of separate transfer or assignment thereof.

G. Contractor's obligations under this Paragraph 8.03 are in addition to and not in limitation of its warranty obligations under Paragraph 3.17 or any other obligation of Contractor under the Contract Documents. Enforcement of Contractor's express warranties and guarantees to repair contained in the Contract Documents shall be in addition to and not in limitation of any other rights or remedies City may have under the Contract Documents or at law or in equity for Non-conforming Work. Nothing contained in this Paragraph shall be construed to establish a period of limitation with respect to other obligations of Contractor under the Contract Documents. Establishment of correction periods for Non-conforming Work relate only to the specific obligations of Contractor to correct the Work and in no way limits either Contractor's liability for Non-conforming Work or the time within which proceedings may be commenced to enforce Contractor's obligations under the Contract Documents.

8.04 ACCEPTANCE OF NON-CONFORMING WORK

A. If, in the sole and unfettered judgment of the City, it is undesirable or impractical to repair or replace any Non-conforming Work, the City may accept such Non-conforming Work in exchange for a reduction in the Contract Sum by such amount as the City or its authorized representatives deem equitable, or Contractor shall rebate moneys previously paid by the City.

ARTICLE 9 - PAYMENTS AND COMPLETION

9.01 CONTRACT SUM

A. Payment to Contractor at the Contract Sum shall be full compensation for furnishing all labor, materials, equipment and tools necessary to the Work; for performing and completing all Work in accordance with the requirements of the Contract Documents; and for all expenses incurred by Contractor for any purpose incidental to performing and completing the Work.

B. Whenever the Contract Documents specify that Contractor is to perform Work or furnish materials of any class for which no price is fixed in the Contract, it shall be understood that such Work is to be performed or such materials furnished without extra charge, allowance or direct payment of any sort, and that the cost of performing such Work or furnishing such materials is included in Contractor's Total Bid Price.

9.02 SCHEDULE OF VALUES FOR LUMP SUM WORK

A. Within 30 days after receipt of the Notice to Proceed, or as otherwise specified in Division 01, Contractor shall submit a detailed cost breakdown of each of the lump sum Items in the Schedule of Bid Prices, including Alternate Bid Items selected by the City, coordinated with the progress schedule. This breakdown shall be referred to as the schedule of values and shall serve as the basis for progress payments for lump sum Items. No progress payments will be made on account of lump sum Items until the City has reviewed and accepted Contractor's schedule of values.

1. The specific format, detail and submittal requirements for the schedule of values shall be as specified in Division 01 or as directed by the City to facilitate and clarify progress payments to Contractor for completed Work.

2. The sum of the individual costs listed in the schedule of values for each lump sum Item shall equal the lump sum price Bid therefor under the Bid Item named in Section 00 41 00.

3. Unless otherwise provided in the Contract Documents, Contractor's overhead, profit, insurance, bonds, and other similar costs, shall be prorated through all Items so that the sum of the cost for all Items shall equal Contractor's Total Bid Price.

B. The City will review and return Contractor's schedule of values with comments. Contractor shall make all corrections requested by the City and re-submit for approval.

1. The City shall be the sole judge of the sufficiency in detail and proper proportioning of Contractor's schedule of values.

2. Contractor's schedule of values will be acceptable to the City as to form and substance if it provides a reasonable allocation of Contractor's Bid amount to component parts of the Work.

C. Upon concurrence by the City, a written formal approval of Contractor's schedule of values will be issued. If the City later determines that the schedule of values is insufficient or incorrect, an adjustment shall be made as specified in subparagraph 9.02B.

9.03 PROGRESS PAYMENTS

A. Subject to the conditions set forth in these General Conditions, and to the authorization of the City or the authorized representatives of the City, payment shall be made upon demand of Contractor and pursuant to the Contract Documents as follows.

B. On the 25th day of each month, Contractor shall submit to the City for review an Application for Payment, on a form approved by the City and signed by Contractor, covering the Work completed by Contractor as of the date of the Application and accompanied by such supporting documentation as specified in Division 01.

1. The monthly value of lump sum Work shall be estimated by Contractor pursuant to the schedule of values prepared in accordance with Paragraph 9.02. Contractor's estimates need not be based on strict measurements but shall consist of good-faith approximations and shall be proportional to the total amount, considering payments previously made, that becomes due for such Work satisfactorily completed in accordance with the requirements of the Contract Documents.

2. Progress payments on account of Unit Price Work shall be based on the number of units of Work satisfactorily completed as determined by the City and the unit prices Bid by Contractor, adjusted as specified in Paragraph 6.08 for the actual quantities of Work performed.

3. Progress payments on account of allowances named in Section 00 41 00 shall be made for such sums as may be acceptable to the City. Prior to final payment, an appropriate Change Order will be issued as directed by the City Representative to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Sum will be adjusted accordingly.

C. The Application for Payment shall identify the amount of Contractor's total earnings to date.

D. Monthly progress payment amounts to Contractor shall be based upon completed Work or percentages of Work completed prior to the end of the payment period. Except as provided in subparagraph 9.10, no allowance will be made for materials or equipment not incorporated into the Work.

E. Monthly Applications for Payment shall be based on information developed at monthly progress meetings and shall be prepared by Contractor as specified in Division 01. Submission of approved monthly progress schedule updates for same period as the Application for Payment shall be a condition precedent to making progress payment Applications. No partial progress payment shall be made to Contractor until all cost information requested by the City is submitted and reviewed.

F. In addition to other requirements specified in Division 1, consistent with Executive Directive 12-01, Contractor shall include its Subcontractors' acceptable invoices with the Monthly Application for Payment that it submits no later than 30 days after receipt of such invoices from its Subcontractors.

G. As soon as practical after estimating the progress of the Work, the City will pay to Contractor in a manner provided by law an amount based upon Contract prices, of labor and materials incorporated in the Work at the Site until midnight of the 25th day of the current month, less the aggregate of the amount of previous payments. Payments, however, may be withheld at any time that the Work, in the City's estimation, is not proceeding in accordance with the Contract, or as otherwise provided in Paragraph 9.06.

1. The City shall endeavor to make progress payments for undisputed amounts within 15 business days, but no later than 45 business days, of receiving a payment request and the required documentation including, without limitation, certified payrolls, and Contract Monitoring Division program participation forms. In no event shall the City become liable for interest or other charges for late payment except as set forth in San Francisco Administrative Code section 6.22(j)(7).

H. No inaccuracy or error in said monthly estimates shall operate to release Contractor or its sureties from damages arising from such Work or from the enforcement of each and every provision of the Contract Documents, and the City shall have the right to correct any error made in any estimate for payment.

I. In accordance with the provisions of section 22300 of the California Public Contract Code, Contractor will be permitted to substitute securities for any moneys withheld by the City to ensure performance under the Contract under the following conditions:

1. At the request and expense of Contractor, securities listed in section 16430 of the California Government Code, bank or savings and loan certificate of deposits, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the City and Contractor which are equivalent to the amount withheld under the retention provisions of the Contract Documents shall be deposited with the City Controller who shall then pay such moneys to Contractor. Upon satisfactory completion of the Project and all Work under the Contract, the securities shall be returned to Contractor.

2. Contractor shall be the beneficial owner of the securities substituted for moneys withheld and shall receive any interest thereon.

3. Contractor shall enter into an escrow agreement with the City Controller according to Section 00 63 30, Escrow Agreement for Security Deposits in Lieu of Retention, specifying the amount of

securities to be deposited, terms and conditions of conversion to cash in case of default of Contractor, and termination of escrow upon completion of the Contract.

J. The granting of any progress payment, or the receipt thereof by Contractor, shall not constitute acceptance of the Work or any portion thereof and shall in no way lessen the liability of Contractor to replace unsatisfactory Work or material, though the unsatisfactory character of such Work or material may not have been apparent or detected at the time such payment was made.

K. It is mutually understood and agreed that the City may withhold from any payment otherwise due Contractor such amounts as may be necessary to protect the City to ensure completion of the Project pursuant to the requirements of this Contract. The failure or refusal of the City to withhold any moneys from Contractor shall in no way impair the obligations of any surety or sureties under any bonds furnished under this Contract.

1. If any payment or portion of payment is withheld by the City, Contractor will be notified in writing of the cause(s) of such action.

L. Only Change Orders and undisputed portions of Unilateral Change Orders completely approved and executed by the City shall be included on the payment authorization, and only that portion of the Change Order Work actually performed shall be submitted for payment. Contractor shall submit a breakdown for each Change Order by Change Order number on its Application for Payment.

M. Submission of Electronic Certified Payrolls. No monthly progress payments will be processed until Contractor has submitted weekly certified payrolls to the City for the applicable time period. Certified payrolls shall be prepared pursuant to Section 1770 et seq. of the California Labor Code for the period involved for all employees and owner-operators, including those of Subcontractors and Suppliers of all tiers, for all labor and materials incorporated into the Work.

N. No monthly progress payments will be processed until Contractor has also submitted weekly certified payrolls to the California Department of Industrial Relations (in addition to the City) for the applicable time period.

O. Effective January 1, 2016, no monthly progress payments will be processed until Contractor has also submitted weekly certified payrolls to the California Department of Industrial Relations (in addition to the City) for the applicable time period.

1. Contractor shall submit certified payrolls to the City electronically via the Project Reporting System ("PRS") selected by the City, an Internet-based system accessible on the World Wide Web through a web browser. The Contractor and each Subcontractor

tor and Supplier will be assigned a log-on identification and password to access the PRS.

2. Contractor shall submit certified payrolls to the California Department of Industrial Relations in the manner specified by the DIR.

3. Use of the PRS may require Contractor, Subcontractors and Suppliers to enter additional data relating to weekly payroll information including, but not limited to, employee identification, labor classification, total hours worked and hours worked on this project, and wage and benefit rates paid. Contractor's payroll and accounting software may be capable of generating a "comma delimited file" that will interface with the PRS software.

4. The City will provide basic training in the use of the PRS at a scheduled training session. Contractor and all Subcontractors and Suppliers and/or their designated representatives must attend the PRS training session.

5. Contractor shall comply with the requirements of subparagraphs 9.03M, N and O at no additional cost to the City.

6. The City will not be liable for interest, charges or costs arising out of or relating to any delay in making progress payments due to Contractor's failure to make a timely and accurate submittal of certified payrolls.

P. Contractor Prompt Payment. Except as otherwise required by Chapter 14B of the Administrative Code, and consistent with the provisions of Section 6.22(q) of the Administrative Code, Contractor shall pay its Subcontractors within seven calendar days after receipt of each progress payment from the City, unless otherwise agreed to in writing by both Contractor and the Subcontractor. In the event that there is a good faith dispute over all or any portion of the amount due on a progress payment from Contractor to a Subcontractor, the Contractor may withhold the disputed amount but shall pay the undisputed amount. If Contractor violates the provisions of Section 6.22(q), then Contractor shall pay to the Subcontractor directly the penalty specified in Section 6.22(q).

9.04 RETENTION

A. As required by and in conformance with the procedures set forth in section 6.22(j) of the Administrative Code, the City shall hold five (5) percent in retention from each progress payment.

B. When the City determines that the Work is 98 percent or more complete, the City may reduce retention funds to an amount equal to 200 percent of the estimated value of work yet to be completed, plus any amounts necessary to cover offsets by the City for liquidated damages, defective Work, stop notices, forfeitures, and other charges.

C. The City shall release the balance of retention only upon the following conditions: (i) the Contractor has reached Final Completion as provided in Paragraph 9.09, below, and (ii) the Contract is free of offsets by the City for liquidated damages and defective work and is free of stop notices, forfeitures, and other charges.

D. The Contractor may apply for early release of retention for Work performed by (1) any subcontractor certified by the City as an LBE or (2) any subcontractor under a Contract with a construction duration of more than two years. The Contractor shall make such application in writing and shall certify the following:

1. That the Work by the subcontractor is completed and satisfactory in accordance with the Contract Documents;

2. The total amount paid to the subcontractor by Contractor as of the date of the written request; and

3. The amount of retention associated with the Work performed by the subcontractor.

4. Contractor acknowledges and agrees that the release of retention under this subparagraph shall not reduce the responsibilities or liabilities of the Contractor or its surety(ies) under the Contract or applicable law.

9.05 PAYMENT AUTHORIZATION

A. The City will, after receipt of Contractor's Application for Payment, approve such amount as the City determines is properly due.

B. Payment will be issued by the City based on the City's determination that the Work has progressed satisfactorily to the point stated in the application for payment. Payment will not be a representation that the City has:

1. inspected the Work exhaustively to check that the quality or quantity are in conformance to the requirements of the Contract Documents; or

2. reviewed Contractor's means, methods, techniques, sequences or procedures of construction; or

3. ascertained how or for what purpose Contractor has used money paid, or determined that title to any of the Work, materials, or equipment has passed to the City free and clear of any liens.

9.06 WITHHOLDING PAYMENT

A. The City may decide not to authorize payment, in whole or in part, to the extent reasonably necessary to protect itself, up to a maximum of 125% of the estimated cost, as determined by the City, to cure or otherwise correct or account for Contractor's failure,

if, in the City's judgment, the determination required by subparagraph 9.05B cannot be made. If the City does not authorize payment in the amount of the application, the City will notify Contractor of the reasons for withholding payment. The City may also decline to authorize payment based on subsequently discovered evidence, and the City may nullify the whole or a part of a payment previously issued, up to a maximum of 125% of the estimated cost, as determined by the City, to cure or otherwise correct or account for Contractor's failure, for one or more of the following reasons:

1. The City determines the existence of Non-conforming Work or completed Work that has been damaged, requiring correction or replacement.
2. Third party claims have been filed, or there is reasonable evidence indicating probable filing of such claims.
3. The City determines that the Work cannot be completed for the unpaid balance of the Contract Sum.
4. The Contract Sum has been reduced by Change Orders.
5. Damage has occurred to the City or another contractor.
6. The City determines that the Work will not be completed within the Contract Time and that the current unpaid balance and retention will not be adequate to cover actual or liquidated damages for the anticipated delay.
7. The City determines that Contractor persistently fails to perform the Work in accordance with the Contract Documents (including, but not limited to, any of the causes enumerated under subparagraph 14.01A).
8. The City determines that Contractor fails to submit timely PCO cost proposal breakdowns in accordance with the Contract Documents.
9. The City determines that Contractor fails to comply with any other requirements of the Contract Documents.

9.07 PARTIAL UTILIZATION

A. Whenever the Work, or any part thereof, is in a condition suitable for use in the opinion of the City, and the best interest of the City requires such use, the City may make a written request for Contractor to permit the City to take possession of and use the Work, or a part thereof, at no additional cost to the City. When so used, maintenance and repair due to ordinary wear and tear caused by the City will be made at the City's expense. The use by the City of the Work or part thereof shall in no case be construed as constituting completion or acceptance of Non-conforming Work. Unless otherwise provided elsewhere in the Contract Documents, such use shall

neither relieve Contractor of any of its responsibilities under the Contract, nor act as a waiver by the City of any of the conditions thereof.

B. Such Partial Utilization may commence at any time as determined by the City, except that the insurers providing property insurance shall have acknowledged notice thereof and in writing effected any changes in insurance coverage necessitated thereby.

C. If, in response to the City's written request(s) to take possession of and use part of the Work, Contractor believes that a specified part of the Work is Substantially Complete and ready for Partial Utilization, Contractor shall notify the City in writing and request a joint inspection of that part of the Work per the procedures described in Paragraph 9.08. When the City determines that the Work is ready for Partial Utilization, the City will issue a Notice of Partial Utilization, which shall establish the Partial Utilization date. The City will also issue a Punch List for the Work identifying deficient items to be corrected by Contractor prior to Final Completion.

D. Partial utilization of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

E. Contractor shall perform final cleaning of such partially utilized Work as specified in the Division 01 when directed to do so by the City.

F. The Guarantee to Repair Period, as defined in Paragraph 8.03, will commence upon the date specified in the Notice of Partial Utilization except that the Guarantee to Repair Periods for that part of equipment or systems that serve portions of the Work for which the City has not taken Partial Utilization or issued a Notice of Partial Utilization shall not commence until the City has taken Partial Utilization for that portion of the Work or has issued a Notice of Substantial Completion for the entire project.

G. Except as provided in this Paragraph 9.07, there shall be no additional cost to the City due to Partial Utilization.

9.08 SUBSTANTIAL COMPLETION

A. Contractor shall notify the City in writing when Contractor considers that the Work is Substantially Complete and request that the City inspect the Work and prepare a Notice of Substantial Completion. Attached to Contractor's request for a Substantial Completion inspection shall be a preliminary list of items to be completed or corrected before Final Completion.

B. Within 14 working days from receipt of Contractor's written notification, the City will make an inspection to determine whether the Work is Substantially Complete. If the City determines that the Work is not Substantially Complete, the City will provide Contractor with a Punch List / Substantial Completion that

lists all Items that shall be corrected or completed before the City considers the Work Substantially Complete.

C. Once Contractor has completed all items on the Punch List / Substantial Completion, Contractor shall request a second inspection by the City to verify that the Work is Substantially Complete. If the City determines that the Work is not Substantially Complete, the City will follow the same procedure as for the first inspection as described in subparagraph 9.08B. Contractor shall reimburse the City for costs incurred by the City and its consultants related to all additional inspections necessary to achieve Substantial Completion.

D. As a condition precedent to Substantial Completion, Contractor shall obtain a temporary certificate of occupancy from the City's Department of Building Inspection or other equivalent agency having jurisdiction over the Work in the event that such temporary occupancy permit or equivalent permit is necessary for the City to utilize the Work for the purposes for which it is intended.

E. When the City determines that the Work is Substantially Complete, the City will issue a Notice of Substantial Completion, which shall establish the Substantial Completion date.

F. At the time of delivery of the Notice of Substantial Completion, the City will deliver to Contractor (i) a Punch List / Final Completion identifying deficient items to be corrected by Contractor prior to Final Completion; and (ii) a written determination as to the division of responsibilities regarding close-out requirements including, but not limited to, security, operation, safety, maintenance, heat, utilities, insurance and warranties.

9.09 FINAL COMPLETION AND FINAL PAYMENT

A. When Contractor considers all Work complete, including all items of Work on the Punch List / Final Completion and all closeout requirements, Contractor shall notify the City in writing and request that the City issue a certificate of acceptance.

B. Within 5 working days of receipt of Contractor's written notice, the City will verify whether all Punch List / Final Completion items are completed. If the City finds that any of the Punch List / Final Completion items are not complete, the City will notify Contractor in writing. Contractor shall promptly take actions necessary to complete such Punch List / Final Completion items.

C. Once Contractor considers all deficient Punch List / Final Completion items complete, Contractor shall notify the City in writing and request a second inspection. If the City finds the Punch List / Final Completion items are still not complete, Contractor shall be responsible for all costs for conducting such

additional inspections incurred by the City and its consultants before Final Completion. The cost of such inspections shall not be considered a delay cost and shall be charged in addition to any liquidated damages which may become due as a result of Contractor's failure to achieve Final Completion within the time prescribed in Section 00 73 02. All such costs of the City and its consultants shall be deducted from amounts which are due or become due to Contractor.

D. While deficient Punch List / Final Completion Work is outstanding, the City may, at its option, pay Contractor any earned Contract funds, including retention, subject to offset for the following: (i) funds subject to a certification of forfeiture by the Office of Labor Standards Enforcement and/or stop notice claims and/or funds to be withheld as otherwise required by law or court order; (ii) an amount not to exceed 200 percent of the total estimated cost of labor and materials to correct any Non-conforming, unacceptable, or incomplete Work; and (iii) amounts assessed for liquidated damages.

E. After Contractor has completed to the satisfaction of the City all Punch List / Final Completion items and close-out requirements in accordance with the Contract Documents, the City will issue a written certificate of acceptance as required by section 6.22(k) of the San Francisco Administrative Code stating that the Work is acceptable, and Contractor may submit the final application for payment.

F. Contractor and each assignee under any assignment in effect at the time of final payment shall, if required by the City, execute and deliver at the time of final payment, as a condition precedent to final payment, a release in the form specified in Division 01 and containing such exemptions as may be found appropriate by the City, discharging the City and the City's consultants, and their directors, officers, members, employees, agents and authorized representatives of all liabilities, obligations and Claims arising under this Contract.

9.10 PAYMENT FOR UNDELIVERED LONG LEAD ITEMS; PAYMENT FOR ITEMS DELIVERED AND STORED ON OR OFF THE SITE

A. Long Lead Items Not Delivered to Contractor. In general, the City will not make payments for undelivered equipment or materials. Notwithstanding that general rule, the Contract Documents may, in limited circumstances, authorize partial payment for undelivered equipment or materials which require lengthy fabrication periods. Payment will be made accordingly to and limited to the specific authorization and process set forth in the Agreement (Section 00 52 00). The City will not make partial payment for undelivered Items unless the Agreement specifically authorizes such payment.

B. Items Delivered and Stored On or Off the Site. In general, the City will not make partial payment to

Contractor for material or equipment procured by Contractor but stored on or off the Site and not incorporated into the Project. Notwithstanding that general rule, the following exception applies in limited circumstances:

1. The City will, upon written request by Contractor, make partial payment for material or equipment procured by Contractor and not incorporated into the Project subject to the following conditions:

a. Partial payment will not be made for any materials or equipment unless each individual piece of the material or equipment will become a permanent part of the Work, the materials and/or equipment are required by the Contract Documents, and the materials and/or equipment are specially manufactured for the Project and could not readily be used for or diverted to another job.

b. No partial payment will be made for living or perishable plant material, or for degradable materials such as rock, sand, cement, or for reinforcing steel, miscellaneous piping, off the shelf and catalog items, or similar items, until they are incorporated into the Work.

c. Applicable materials and/or equipment are either stored on the Site or at an off-Site location approved in advance and in writing by the City and in compliance with the requirements set forth in this subparagraph.

d. Partial payment for materials or equipment stored off the Site shall be limited to the lesser of 75 percent of the invoice cost or the Bid Item amount less an estimate by the City for installation. Partial payment for materials or equipment stored on the Site shall be limited to the lesser of 95 percent of the invoice cost or the Bid Item amount less an estimate by the City for installation. Contractor shall provide all documentation necessary to establish the cost of the materials or equipment. The City will be the sole judge of installation costs. The actual percentage paid (subject to the 75% or 95% limit, as applicable) shall be at the discretion of the City.

e. The General Requirements may set forth additional conditions applicable to partial payment for materials and equipment.

2. The City will not approve a request for partial payment for material or equipment not incorporated into the Project unless Contractor complies with each of the applicable requirements set forth below. No partial payment will be made until Contractor submits sufficient and satisfactory documentation to the City as required below.

a. Contractor shall submit to the City Representative proof of off-Site material or equipment purchases, including bills of sale, invoices, unconditional releases and/or other documentation as requested by the City warranting that Contractor has received the material or equipment free and clear of

all liens, charges, security interests, and encumbrances.

b. Contractor shall submit to the City Representative proof that title to stored Items vested in the City at time of delivery to the Site or off-Site warehouse. Contractor shall be responsible for all costs associated with storage of the Items.

c. Contractor shall obtain a negotiable warehouse receipt, endorsed over to the City, for Items stored in an off-Site warehouse, and shall submit such receipt to the City Representative.

d. Contractor shall store the materials and/or equipment in a bonded warehouse or facility approved by the City Representative. The materials and equipment shall be physically segregated from all other materials or equipment within the facility and shall be identified as being the "PROPERTY OF THE CITY AND COUNTY OF SAN FRANCISCO". Contractor shall exercise all measures necessary to ensure preservation of the quality, quantity, and fitness of such materials or equipment and shall perform the manufacturers' recommended maintenance of the materials or equipment. Contractor shall inspect the materials and equipment, and shall submit regular reports to the City Representative as specified in the General Requirements, listing all of the equipment stored, results of its inspection, and the maintenance performed.

e. Contractor, at no additional cost to the City, shall insure stored material and/or equipment against theft, fire, loss, vandalism, and malicious mischief, and shall deliver the policy or certificate of such insurance to the City Representative naming the City as additional insured. Insurance shall not be cancelable for at least 30 days and cancellation shall not be effective until certificate thereof is provided to the City. The insurance shall cover the material or equipment while stored at the approved location, while in transit to the Site, while being off-loaded at the Site and until the material or equipment is incorporated into the Work and the Work is accepted by the City.

f. Contractor shall submit to the City Representative written consent from Contractor's sureties approving the partial payment for Items stored on or off Site. The written consent must include a statement confirming that remittance of the advance payment will not relieve the sureties of any of their obligations under the Bonds.

g. Stored material or equipment shall be available for inspection by the City at all times. Contractor shall, upon request, assist the City Representative in conducting a full view, piece-by-piece, inventory or all such material or equipment.

h. Contractor shall protect stored material and equipment from damage. Damaged material and/or equipment, even though paid for, shall not be incorporated into the Work. In the event of loss or

damage to paid material and/or equipment, Contractor shall be responsible for replacing such lost or damaged material and/or equipment at its own cost and shall be responsible for all delays incurred to the Project as a result of such loss or damage. Consistent with Paragraph 9.06, the City may nullify the whole or a part of an advance payment previously issued in the event that Contractor fails to replace lost or damaged material and/or equipment at its own cost.

i. Contractor shall deliver stored material and equipment to the Site. After delivery, if any inherent or acquired defects are discovered in such material and/or equipment, Contractor shall remove and replace any defective Items with suitable Items at no additional cost to the City. Contractor shall be responsible for all delays incurred to the Project resulting from the removal and replacement of defective material and/or equipment. Consistent with Paragraph 9.06, the City may nullify the whole or a part of an advance payment previously issued in the event that Contractor fails to remove and replace defective Items.

3. Nothing in this Paragraph 9.10 shall relieve Contractor of its responsibility for incorporating material and equipment into the Work that conform to the requirements of the Contract Documents.

4. Contractor shall absorb any and all costs incurred to meet the requirements of this Paragraph 9.10 without modification to the Contract Sum.

ARTICLE 10 - INSURANCE AND BONDS

10.01 INSURANCE REQUIREMENTS

A. Contractor shall purchase and maintain in force throughout the Contract Time such liability and other insurance as provided in Section 00 73 16.

10.02 PERFORMANCE BOND AND PAYMENT BOND

A. At the time of execution of the Contract, Contractor shall file with the City the following bonds using the form provided in Section 00 61 13:

1. a corporate surety bond, in a sum not less than 100 percent of the Contract Sum, to guarantee the faithful performance of the Contract ("Performance Bond"); and

2. a corporate surety bond, in a sum not less than 100 percent of the Contract Sum, to guarantee the payment of labor, materials, supplies, and equipment used in the performance of the Contract ("Payment Bond").

B. Said Performance Bond shall cover all corrective Work required during the Guarantee to Repair

Period, all warranty and maintenance Work required by the Contract Documents, and any and all Work required to correct latent defects.

C. Corporate sureties issuing these bonds and Bid bonds as specified in Section 00 21 13 shall be legally authorized to engage in the business of furnishing surety bonds in the State of California. All sureties shall have either a current A.M. Best Rating not less than "A-, VIII" or shall be listed in the current version of the United States Department of the Treasury's Listing of Approved Sureties (Department Circular 570), and shall be satisfactory to the City.

ARTICLE 11 - LABOR STANDARDS

11.01 PREVAILING WAGES

A. It is hereby understood and agreed that all provisions of section 1770, et seq., of the California Labor Code are required to be incorporated into every contract for any public work or improvement and are provisions of this Contract.

B. It is hereby understood and agreed that all provisions of sections 6.22(e) and 6.22(f) of the San Francisco Administrative Code are incorporated as provisions of the Contract Documents including, but not limited to, the following:

1. Contractor shall pay to all persons performing labor in and about the Work not less than the highest general prevailing rate of wages determined as set forth herein for the respective crafts and employments, including such wages for holiday and overtime work.

2. Contractor shall insert in every subcontract or other arrangement, which it may make for the performance of any Work or labor on the Work, a provision that said Subcontractor shall pay to all persons performing labor or rendering service under said subcontract or other arrangement the highest general prevailing rate of wages determined as set forth herein for the respective crafts and employments, including such wages for holiday and overtime work.

3. Contractor shall keep or cause to be kept complete and accurate payroll records for all persons performing labor in or about the Work. Such records shall include the name, address and social security number of each worker who provided labor, including apprentices, his or her classification, a general description of the services each worker performed each day, the rate of pay (including rates of contributions for, or costs assumed to provide fringe benefits), daily and weekly number of hours worked, deductions made and actual wages paid. Every subcontractor who shall undertake the performance of any part of the Work herein required shall keep a like record of each person engaged in the execution of the subcontract. All such records shall at all times be available

for inspection of and examination by the City and its authorized representatives and the California Department of Industrial Relations.

4. Should Contractor, or any Subcontractor who shall undertake the performance of any part of the Work herein required, fail or neglect to pay to the persons who shall perform labor under this Contract, subcontract or other arrangement for the Work, the highest general prevailing rate of wages as herein specified, Contractor shall forfeit, and in the case of any Subcontractor so failing or neglecting to pay said wage, Contractor and the Subcontractor shall jointly and severally forfeit, back wages due plus the penalties set forth in Labor Code Section 1775, but not less than \$50 per worker per day.

5. No person performing labor or rendering service in the performance of the Contract or a subcontract for the Work herein required shall perform labor for a longer period than five days (Monday-Friday) per calendar week of eight hours each (with two 10-minute breaks per eight-hour day), except in those crafts in which a different work day or week now prevails by agreement in private employment. Any person working hours in addition to the above shall be compensated in accordance with the prevailing overtime standard and rates. Contractor or any Subcontractor who violates this provision shall forfeit back wages due plus the penalties set forth in Labor Code section 1775, but not less than \$50 per worker per day.

C. The most current highest prevailing wage rate determinations made at the time of the advertisement for Bids are hereby incorporated as part of the Contract Documents. No adjustments in the Contract Sum will be allowed for increases or decreases in prevailing wage rates that may occur during the Contract Time.

1. Copies of the prevailing wage rates are available from the contracting department, and are also available on the Internet at <http://www.dir.ca.gov/DLSR/PWD>.

2. Payments to a craft or classification not shown on the prevailing rate determinations shall comply with the rate of the craft or classification most closely related to it. Contact the California Division of Labor Statistics and Research, Prevailing Wage Unit at telephone (415) 703-4774 for job classifications not listed in the General Prevailing Wage Determinations of the Director of Industrial Relations.

D. All Work is subject to compliance monitoring and enforcement of prevailing wage requirements by the California Department of Industrial Relations and the San Francisco Office of Labor Standards Enforcement.

E. Contractor shall post job site notices prescribed by the California Department of Industrial

Relations at all job sites where Work is to be performed.

11.02 PAYROLLS

A. Certification of Payroll Records: Contractor shall comply with the requirements of section 1776 of the California Labor Code, or as amended from time to time, regarding the preparation, keeping, filing and furnishing of certified copies of payroll records of wages paid to its employees and to the employees of its Subcontractors of all tiers.

1. The payroll records shall be certified under penalty of perjury and shall be submitted electronically to the City and, where required, to the California Department of Industrial Relations, as set forth in Paragraph 9.03M, N and O. In addition, Contractor shall make the payroll records available for inspection at all reasonable hours at the job site office of Contractor on the following basis:

a. A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or his or her authorized representative upon request.

b. A certified copy of all payroll records shall be made available for inspection or furnished to a representative of the City upon request.

c. A certified copy of all payroll records shall be made available upon request to the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through either the City, the Division of Apprenticeship Standards, or the Division of Labor Standard Enforcement. The public shall not be provided access to such records at the job site office of Contractor.

d. Contractor shall file a certified copy of the payroll records with the entity that requested such records within 10 days after receipt of a written request.

2. In providing copies of payroll records to any requestor, the City shall redact or obliterate such information as may be required under California Labor Code section 1776(e), as that section may be amended from time to time.

3. Contractor shall inform the City of the location of the payroll records, including the street address, city and county, and shall, within 5 working days, provide a notice of a change of location and address.

4. In the event that Contractor receives a written notification of noncompliance with section 1776, Contractor shall have 10 days from receipt of such written notice to comply. Should noncompliance still be evident after such 10-day period, Contractor shall forfeit the penalties set forth in Administrative Code section 6.22(e) and (f) and/or Labor Code section 1776. Upon the request of the Division of Appren-

ticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from the Contract Sum.

5. Contractor is solely responsible for compliance with section 1776. The City shall not be liable for Contractor's failure to make timely or accurate submittals of certified payrolls.

11.03 APPRENTICES

A. Contractor and its Subcontractors of every tier shall, as a material term of the Contract, comply with the requirements of the State Apprenticeship Program (as set forth in the California Labor Code, division 3, chapter 4 [commencing at section 3070], and section 1777.5) and San Francisco Administrative Code, section 6.22(n). Contractor shall be solely responsible for securing compliance with section 1777.5 for all apprenticeable occupations.

1. Contractor shall comply with all requests by the City to provide proof that Contractor and all of its Subcontractors at every tier are in compliance with the State Apprenticeship Program.

2. Contractor shall include in all of its subcontracts the obligation for Subcontractors to comply with the requirements of the State Apprenticeship Program.

3. Section 1777.5 does not apply to contracts of general contractors or to contracts of specialty contractors not bidding for work through a general or prime contractor when the contracts of general contractors or those specialty contractors involve less than thirty thousand dollars (\$30,000).

B. Should Contractor fail to comply with the apprenticeship requirements of section 1777.5, Contractor shall be subject to the penalties prescribed in section 1777.7 of the California Labor Code. The interpretation and enforcement of section 1777.5 shall be in accordance with rules and procedures prescribed by the California Apprenticeship Council.

C. Contractor, if not signatory to a recognized apprenticeship training program under chapter 4 of the California Labor Code, shall provide to the City with all progress payment requests, starting with the second such request, satisfactory evidence that it has contributed to the appropriate apprenticeship fund(s). Contractor shall require its Subcontractors who are not signatories to provide such evidence to the City as a condition precedent for qualifying for payment from the City. The City reserves the right to demand such evidence upon request.

11.04 LABOR STANDARDS ENFORCEMENT

A. All Work is subject to compliance monitoring and enforcement of prevailing wage requirements by the California Department of Industrial Relations

("DIR") and the San Francisco Office of Labor Standards Enforcement.

B. In accordance with Administrative Code section 6.22(e) and section 6.24 and the applicable sections of the California Labor Code, Contractor further acknowledges and agrees as follows:

1. Contractor will cooperate fully with the DIR and the Labor Standards Enforcement Officer and other City employees and agents authorized to assist in the administration and enforcement of the prevailing wage requirements and other labor standards imposed on public works contractors by the Charter, Chapter 6 of the San Francisco Administrative Code, and the applicable sections of the California Labor Code.

2. Contractor agrees that the DIR and the Labor Standards Enforcement Officer and his or her designees, in the performance of their duties, shall have the right to engage in random inspections of job sites and to have access to the employees of the contractor, employee time sheets, inspection logs, payroll records and employee paychecks.

3. Contractor shall maintain a sign-in and sign-out sheet showing which employees are present on the job site.

4. Contractor shall post job site notices prescribed by the California Department of Industrial Relations at all job sites where Work is to be performed.

5. The DIR and the Labor Standards Enforcement Officer may audit such records of Contractor as is deemed reasonably necessary to determine compliance with the prevailing wage and other labor standards imposed by the Charter, Chapter 6 of the San Francisco Administrative Code, and the applicable sections of the California Labor Code.

C. Under California Public Contract Code section 6109, Contractor or Subcontractors who are ineligible to bid or work on, or be awarded, a public works project under California Labor Code sections 1777.1 or 1777.7 are prohibited from performing Work on the Project.

1. Any contract for the Project entered into between Contractor and a debarred subcontractor is void as a matter of law.

2. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works project. Contractor shall return to the City any public money that may have been paid to a debarred subcontractor by Contractor.

3. Contractor shall be responsible for the payment of wages to workers of a debarred subcontractor that has been allowed to work on the Project.

ARTICLE 12 - SAFETY

12.01 PRECAUTIONS AND PROGRAMS

A. Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall be solely responsible for any and all fines, penalties or damages which result from Contractor's failure to comply with applicable health and safety laws and regulations during performance of the Work.

B. Contractor shall designate in writing a responsible competent person of Contractor's organization at the Site as Project safety representative whose principal duties shall be the prevention of accidents and the maintenance and supervision of safety precautions and programs in accordance with the requirements of applicable laws and regulations. This person shall be available 24 hours a day, 7 days a week by telephone or other approved means.

C. Contractor shall perform all Work relating to hazardous materials as required by the Contract Documents. Contractor and its Subcontractors shall comply with all federal, state and local statutes and regulations on training, handling, storage, public notification and disposal of hazardous materials and hazardous wastes. In the event that Contractor or its Subcontractors introduces and/or discharges, spills or releases a hazardous material onto the site in a manner not specified by the Contract Documents; and/or (ii) disturbs a hazardous material identified in the Contract Documents or Reference Documents, the Contractor shall immediately notify the City Representative and any required agencies of the spill, release or discharge and Contractor shall stop the Work, and cordon off the affected area to secure entry. Removal and disposal of the hazardous material, if deemed necessary by the City, will, at the discretion of the City, be performed either by the City at Contractor's expense or by Contractor, through a qualified remediation Subcontractor, at Contractor's expense. Under no circumstance shall the Contractor perform remediation Work for which it is not qualified.

D. Should Contractor or any of its Subcontractors, while performing Work on the Site, unexpectedly encounter any hazardous material not show in the Contract Documents or Reference Documents, or have reason to believe that any other material encountered may be a hazard to human health and safety and/or the environment, Contractor shall stop the Work, cordon off the affected area to secure entry, and shall immediately notify the City Representative. Removal and disposal of the hazardous material not shown in the Contract Documents or Reference Documents, if deemed necessary by the City, will be performed as directed by the City at the City's expense. In the event that Contractor is delayed in the completion of the Contract Work solely because of

such hazardous materials or conditions not previously identified in the Contract Documents or Reference Documents, the Contractor shall be entitled to an extension of time in accordance with Article 7 of these General Conditions.

12.02 PERSONS AND PROPERTY

A. Contractor shall take all necessary precautions for safety of, and shall provide the necessary protection to prevent damage, injury or loss to the following:

1. all persons on the Site or others who may be affected by the Work;

2. the Work and the materials and equipment to be incorporated therein, whether in storage on or off the Site; and

3. other property at the Site or adjacent thereto including, but not limited to, trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not indicated to be removed, relocated or replaced on the Contract Documents.

B. Contractor shall give notices pursuant to California Civil Code section 832 and shall comply with all applicable laws, ordinances, rules, regulations and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

C. Contractor shall notify owners of adjacent property, underground facilities and utilities, such as PG&E, AT&T, Municipal Railway, Hetch Hetchy Water and Power, and the San Francisco Public Utilities Commission, of Contractor's operations a reasonable time in advance thereof so as to permit the owners to make suitable markings on the street surface of the locations of such facilities. After such markings have been satisfactorily made, Contractor shall maintain them as long as necessary for the proper conduct of the Work.

D. Contractor shall not hinder or interfere with an owner or agency having underground facilities and utilities when removing, relocating, or otherwise protecting such facilities.

E. Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, safeguards for safety and protection, such as posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying owners and users of adjacent sites, underground facilities and utilities of Contractor's operations.

F. Contractor shall perform all Work in such manner as to avoid damage to existing underground facilities and other utilities in the process of their removal or adjustment and to avoid damage to such facilities lying outside of or below a required excavation or trench area which are intended to remain in place.

G. Contractor shall be responsible for coordinating the exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with applicable laws and regulations.

H. In the event of damage or loss to property referred to in the previous subparagraphs, whether caused by Contractor, its Subcontractors or Lower-Tier Subcontractors, Contractor shall promptly remedy such damage or loss, except such damage or loss attributable to the sole negligent acts or omissions of the City. The foregoing obligations of Contractor are in addition to Contractor's obligations under Paragraph 3.19 of these General Conditions.

I. Pursuant to section 6705 of the California Labor Code, excavation for trenches 5 feet or more in depth shall not begin until Contractor has received acceptance from the City of Contractor's detailed plan for worker protection from the hazards of caving ground during excavation of such trenches. Contractor's shoring plan shall be submitted in accordance with the requirements of the Specifications and shall show the details and supporting calculations of the design of shoring, bracing, sloping, or other provisions to be made for worker protection during such excavation. No plan shall allow the use of shoring, sloping or other protective system less effective than that required by the Construction Safety Orders of the Division of Occupational Safety and Health. If Contractor's shoring plan varies from the shoring system standards established by the Construction Safety Orders, the plan shall be prepared and sealed by an engineer retained by Contractor who is registered as a civil or structural engineer in the State of California. The City's acceptance of Contractor's shoring plan shall not be construed to relieve Contractor of its sole responsibility for damage or injuries related to the excavation resulting from unsafe shoring.

J. Contractor shall be responsible for each operation and all Work, both permanent and temporary. Contractor shall protect its Work and materials and fully or partially completed work of the City or separate contractors from damage due to construction operations, the action of the elements, the carelessness of its subcontractors, vandalism, graffiti, or any other cause whatsoever, until Final Completion of the Work. Should improper Work of any trade be covered by another contractor and damage or defects result, Contractor shall make the whole Work affected good to the satisfaction of the City and without expense to the City.

12.03 SAFETY PERMITS

A. A California industrial safety permit shall be obtained and paid for by Contractor if the following occurs:

1. the construction of a building, structure, false work or scaffolding more than 3 stories or the equivalent of 35 feet height; or
2. the demolition of a building, structure, false work or scaffolding more than 3 stories or the equivalent of 35 feet height; or
3. the excavation of a trench 5 feet deep or deeper into which a person must descend.

B. Contractor shall obtain and pay for all other required safety permits.

12.04 EMERGENCIES

A. In emergencies affecting the safety or protection of persons or property at the Site, Contractor shall act promptly to prevent threatened damage, injury or loss. Contractor shall give prompt written notice to the City if Contractor believes that, due to the nature of the emergency or circumstances related thereto, any significant changes in the Work or variations in the Contract Documents have been caused thereby or are required as a result thereof. If the City determines that a change in the Contract Documents is required because of action taken by Contractor in response to such an emergency, a Change Order or Unilateral Change Order will be issued as provided in Article 6.

ARTICLE 13 - CONTRACT AND GOVERNMENT CODE CLAIMS

13.01 CLAIMS GENERALLY

A. The City and Contractor acknowledge and agree that early identification and resolution of potential claims or disputes benefits all parties and advances the success of the Project.

B. The notice requirements and procedures set forth under this Article 13 are necessary for the City to address potential claims and disputes. Having knowledge of potential claims prior to the Contractor performing disputed Work and having documentation from the Contractor concerning a dispute as Work is being performed is critical for the City to make informed decisions which could impact the budget and schedule for the Project.

C. Compliance with the Notice of Potential Claim, and Contract Claim submission procedures prescribed in this Article are condition precedents to the right to file a Government Code Claim under California Government Code section 900, et seq., and San Francisco Administrative Code Chapter 10. As set forth in subparagraph 13.05, Contractor's submittal of timely and proper Notices of Potential Claims and Contract Claims may, in some circumstances, toll Contractor's compliance with the Government Code

Claim requirements until the Contract Claim process is finally completed. Refer to subparagraph 13.05, below. The timely submittal of both a properly completed Contract Claim and a Government Code Claim are conditions precedent to commencing litigation against the City for disputes arising out of or related to this Contract and not expressly excluded from the Contract Claim process per subparagraph 13.01(D), below. Disputed issues not timely raised and properly documented in conformance with this Article shall be deemed waived by the Contractor and may not be asserted in a Government Code Claim, subsequent litigation, or legal action. Furthermore, by executing this Contract, Contractor waives any and all claims or defenses of waiver, estoppel, release, bar, or any other type of excuse of non-compliance with the Contract Claim submission requirements.

D. The Contract Claim procedures specified in this Article 13 do not apply to the following: (1) claims respecting penalties for forfeitures prescribed by statute or regulation which a government agency is specifically authorized to administer, settle, or determine; (2) claims respecting personal injury, death, reimbursement, or other compensation arising out of or resulting from personal injury of death; (3) claims by the City; or (4) claims respecting stop notices.

E. The requirements of this Article 13 shall survive expiration or termination of this Contract.

13.02 NOTICE OF POTENTIAL CLAIM

A. If, during the course of the Project, the Contractor seeks an adjustment of the terms of the Contract Documents, an adjustment to the Contract Sum and/or Contract Time, or other relief with respect to the Contract Documents, including a determination of disputes or matters in question between the City and the Contractor arising out of or related to the Contract Documents or the performance of Work (including without limitation determination of delay, assessment of liquidated damages, Proposed Change Orders, Unilateral Change Order, denial of Change Order Requests, payment, nonpayment, termination for cause, termination for convenience, or other act by the City impacting or potentially impacting payment, nonpayment, withholding, or the performance of the Work), then the Contractor must submit to the City a timely Notice of Potential Claim to preserve its right to seek such additional compensation and/or time.

B. Contractor must submit a Notice of Potential Claim to the City within 7 days of the event, activity, occurrence, or other cause giving rise to the potential Claim.

C. A Notice of Potential Claim shall describe the nature and circumstances of the potential claim event, set forth the reason(s) for which Contractor believes additional compensation and/or time will or may be due, and provide a good faith estimate of the cost and/or time impact to which Contractor believes it

may be entitled. Notices of Potential Claims submitted per Paragraph 3.03 (Unforeseen or Differing Conditions) must also identify the Escrow Bid Documents that formed the basis of Contractor's Bid to perform the Work affected by the alleged unforeseen or differing condition.

D. The Notice of Potential Claim provides early notice to the City of a disputed issue and provides the City with the opportunity to mitigate associated costs, allowing for early resolution. Failure by Contractor to submit a timely Notice of Potential Claim shall constitute a waiver of any claim arising out of the event, activity, occurrence, or other cause giving rise to the potential Claim.

E. The requirements of subparagraph 13.02A, above, apply regardless of whether or not the disputed issue underlying a potential claim event has been or will be submitted to an issue resolution/escalation ladder, Dispute Review Board or similar dispute resolution process that may be required by the Contract Documents.

13.03 CONTRACT CLAIM

A. General Contract Claim Requirements. If the disputed issue(s) underlying a Notice of Potential Claim remains unresolved after 45 days from the submittal of a Notice of Potential Claim, and Contractor wishes to pursue the disputed issue(s), Contractor must submit a Contract Claim that provides a complete and final justification for additional compensation and time adjustments. Contractor must submit a Contract Claim to the City within 45 days of submitting the Notice of Potential Claim. The Contract Claim shall be the Contractor's sole and exclusive administrative remedy for additional compensation or time associated with its performance of the Work under the Contract. Failure to submit a timely, certified, and documented Contract Claim in conformance with this Article shall constitute a waiver by the Contractor as to any claims relating to its performance of the Work under the Contract and a failure to exhaust its administrative remedies.

1. The time requirement for submitting a Contract Claim set forth in subparagraph 13.03A, above, shall be extended in accordance with the applicable Contract Documents if the Contract Documents require the establishment of an issue resolution/escalation ladder, Dispute Review Board or similar supplemental dispute resolution process(es) and Contractor timely refers a disputed issue to the applicable process. Contractor's timely referral of a disputed issue to any mandatory supplemental dispute resolution process(es) set forth in the Contract Documents is a prerequisite to filing a Contract Claim under this Article. By failing to timely refer a disputed issue to the applicable mandatory supplemental dispute resolution process specified in the Contract Documents, Contractor waives future Contract Claims relating to the disputed issue.

B. Contract Claim Certification Requirement:

1. Contractor, under penalty of perjury, shall submit with the Contract Claim certification by Contractor and its Subcontractor(s), as applicable, that:

- a. the Claim is made in good faith;
- b. supporting data are accurate and complete to the best of Contractor's and/or Subcontractor's knowledge and belief; and
- c. the amount requested accurately reflects the Contract adjustment for which Contractor believes the City is liable.

2. An individual or officer who is authorized to act on Contractor's behalf shall execute the certification. Failure to certify a claim under penalty of perjury shall render the Contract Claim a nullity and the underlying claim waived by the Contractor.

3. In regard to a Claim or portion of a Claim by a Subcontractor, Contractor shall fully review the Subcontractor's Claim and shall certify the Subcontractor's Claim or such relevant portion(s) of the Subcontractor's Claim, under penalty of perjury, in the same manner the Contractor would certify its own claim under the foregoing subparagraph 13.03B.1. The City will not consider a direct claim by any Subcontractor. Subcontractors at any tier are not third-party beneficiaries of this Contract.

4. Contractor hereby agrees that failure to furnish certification as required in this Article shall constitute a waiver by the Contractor as to the subject Claim.

5. Contractor further acknowledges and agrees that if it submits a false claim, on behalf of itself or a Subcontractor, Contractor may be subject to civil penalties, damages, debarment, and criminal prosecution in accordance with local, state, and federal statutes.

C. Format of a Contract Claim:

1. The Contractor shall document its Contract Claim in the following format:

- a. Cover letter and certification.
- b. Narrative Summary of Claim merit and amount, and clause under which the Claim is made.
- c. List of documents relating to Claim:
 - 1) Specifications
 - 2) Drawings
 - 3) Clarifications/RFIs
 - 4) Correspondence
 - 5) Schedules
 - 6) Other

d. Chronology of events and correspondence.

e. Analysis of Claim merit.

f. Analysis of Claim cost (money and time).

g. Attachments:

- 1) Specifications
- 2) Drawings
- 3) Clarifications/RFIs
- 4) Correspondence
- 5) Schedules
- 6) Other

D. Additional Requirements for Contract Claims Regarding Time Extensions:

1. All Contract Claims regarding time extensions or assessments of delay and/or liquidated damages shall include, in addition to all other applicable requirements of this Article 13, an analysis of the delays impacting the as-built critical path. The as-built critical path shall be determined by (1) comparing the late dates for schedule activities indicated within the Contractor's "as-planned" CPM schedule (as approved by the City) with the actual dates for the same activities, and then (2) determining the longest path through the as-built schedule using the Contractor's originally-approved as-planned activity to activity logic. The "as-built" CPM shall reflect the exact manner in which the Project was actually constructed (including start and completion dates, actual sequence and durations of work activities, and logic).

2. The City will not review or consider any Contract Claim regarding time extensions based upon an impacted as-planned CPM, collapsed as-built schedule, time impact analysis or similar method that does not take into account actual events on the Project.

E. Procedure For Review of a Contract Claim:

1. The City shall review only a timely, certified, and properly documented Contract Claim.

2. The City shall respond to a Contract Claim in writing, within 45 days of receipt of such Claim. In its response, the City shall either grant or deny the Claim in whole or in part. If the City does not respond to a Claim within the 45-day period, the Claim is deemed denied in its entirety.

3. Within 10 days of the date of the City's response or expiration of the 45-day period, whichever is earlier, the Contractor may request review of the Contract Claim and the City's response by the Department Head. The request must be in writing, directed to the Department Head and copied to the City Representative. Failure by the Contractor to make a

timely request to the Department Head, copied to the City Representative, shall constitute acceptance by the Contractor of the City's original response.

4. Upon a timely and proper request, the Department Head, or his/her designee (other than personnel assigned to the Project), shall review the relevant documents, meet with the Contractor and City personnel assigned to the Project, and confirm or revise the City's response to the Contract Claim. The Department Head, or his/her designee, shall issue such determination within 60 days of the date of the request for review. The determination by the Department Head, or his/her designee, shall constitute the final administrative determination of the City. If the Department Head takes no action on a request for review within the 60-day period, the City's original response shall constitute the final administrative determination by the City.

13.04 GOVERNMENT CODE CLAIM

A. For the purposes of this Contract, the City and the Contractor hereby agree that any action at law against the City arising out of or relating to Contractor's performance of the Work shall accrue either on the effective date of termination (under Article 14 of these General Conditions) or on the date of Substantial Completion, whichever is earlier. Notwithstanding the foregoing, the timely submittal of a complete and proper Notice of Potential Claim and Contract Claim under the administrative procedure specified in this Article 13 shall operate to toll Contractor's compliance with the Government Code Claim requirements under California Government Code section 900, et seq., and San Francisco Administrative Code Chapter 10 until the City issues a final administrative determination per subparagraph 13.03E.4.

ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

14.01 NOTICE OF DEFAULT; TERMINATION BY THE CITY FOR CAUSE

A. Grounds for Default. Contractor is in Default of the Contract if Contractor:

1. refuses or fails to supply enough properly skilled workers, adequate and proper materials, or supervision to prosecute the Work at a rate necessary to complete the Work within the specified limits of Contract Time, in accordance with the currently accepted updated progress schedule; or
2. is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency; or
3. refuses or fails in a material way to replace or correct Work not in conformance with the Contract Documents; or

4. repeatedly fails to make prompt payment due to Subcontractors or for labor; or

5. materially disregards or fails to comply with any law, ordinance, rule, regulation or order of any public authority having jurisdiction; or

6. intimidates or sexually harasses a City employee, agent, or member of the public; or

7. is otherwise in material breach of any provision of the Contract Documents.

B. Notice of Default. When any of the above grounds for Default exist, the City may, without prejudice to any other rights or remedies that the City may have, issue a written Notice of Default to the Contractor. The City shall provide a copy of any Notice of Default to the Contractor's surety.

1. The Notice of Default shall identify the ground(s) for Default and provide the Contractor with a 14-day cure period to complete necessary corrective Work and/or actions.

2. In the event that necessary corrective Work and/or actions cannot be completed within the 14-day cure period through no fault of Contractor or its subcontractors/suppliers, Contractor shall, within the 14-day cure period, (i) provide the City with a schedule, acceptable to the City, for completing the corrective Work and/or actions; and (ii) commence diligently the corrective Work and/or actions. The City, after accepting Contractor's proposed schedule, will amend the Notice of Default in writing to set forth the agreed-upon cure period. The City will provide a copy of the amended Notice of Default to the Contractor's surety.

C. Termination for Cause. If Contractor fails to completely cure the Default either (i) within the 14-day cure period set forth in the Notice of Default; or (ii) within the agreed-upon cure period set forth in an amended Notice of Default, the City may, without prejudice to any other rights or remedies that the City may have, immediately terminate employment of Contractor and, subject to the prior rights and duties of the surety under any bond provided in accordance with the Contract Documents:

1. take possession of the Site and use any materials, equipment, tools, and construction equipment and machinery thereon owned by Contractor to complete the Project;

2. accept assignment of subcontracts and agreements pursuant to Paragraph 4.03; and

3. finish the Work by whatever reasonable method the City may deem expedient.

D. When the City terminates the Contract for one of the grounds set forth in subparagraph 14.01A, Contractor shall not be entitled to receive further payment until the Work is finished. If the unpaid balance of the Contract Sum exceeds the cost of finish-

ing the Work, including all liquidated damages for delays, such excess shall be paid to Contractor. If such costs exceed the unpaid balance, Contractor shall pay the difference to the City. The amount to be paid to Contractor or City, as the case may be, upon application, shall be an obligation for payment that shall survive termination of the Contract.

1. Upon completion of all Work, Contractor shall be entitled to the return of all its materials which have not been used in the Work, its plant, tools, equipment and other property provided, however, that Contractor shall have no claim on account of usual and ordinary depreciation, loss, wear and tear.

E. If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties, including adjustment of the Contract Sum, will be the same as if the termination had been issued for the convenience of the City, as provided under Paragraph 14.03.

14.02 SUSPENSION BY THE CITY FOR CONVENIENCE

A. The City may, without cause, order Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the City may determine.

B. An adjustment shall be made as specified in subparagraph 7.02A for increases in the cost of performance of the Contract caused by suspension, delay or interruption. No adjustment shall be made to the extent:

1. that performance is, was or would have been so suspended, delayed or interrupted by another cause for which Contractor is responsible; or
2. that an equitable adjustment is denied under another provision of this Contract.

14.03 TERMINATION BY THE CITY FOR CONVENIENCE

A. Pursuant to section 6.22I of the San Francisco Administrative Code the City may terminate the performance of Work under this Contract in accordance with this Paragraph 14.03 in whole or, from time to time, in part, whenever the City shall determine that such termination is in the best interest of the City. Any such termination shall be effected by delivery to Contractor of a notice of termination specifying the extent to which performance of Work under the contract is terminated, and the date upon which such termination becomes effective.

B. After receipt of a notice of termination, and except as otherwise directed by the City, Contractor shall comply with all of the following requirements.

1. Stop Work under the Contract on the date and to the extent specified in the notice of termination.

2. Place no further orders or subcontracts for materials, services, or facilities except as necessary to complete the portion of the Work under the Contract that is not terminated.

3. Terminate all orders and subcontracts to the extent that they relate to the performance of Work terminated by the notice of termination.

4. Assign to the City, in the manner, at the times, and to the extent directed by the City, all of the right, title, and interest of Contractor under the orders and subcontracts so terminated. The City shall have the right, at its discretion, to settle or pay any or all Claims arising out of the termination of such orders and subcontracts.

5. Settle all outstanding liabilities and all Claims arising out of such termination of orders and subcontracts with the approval or ratification of the City, in writing, to the extent it may require. The City's approval or ratification shall be final for all the purposes of this Paragraph 14.03.

6. Transfer title to the City, and deliver in the manner, at the times, and to the extent, if any, directed by the City, (i) the fabricated or unfabricated parts, Work in process, completed Work, supplies, and other material produced as a part of, or acquired in connection with the performance of, the Work terminated by the notice of termination, and (ii) the completed or partially completed drawings, information, and other property which, if the Contract had been completed, would have been required to be furnished to the City.

7. Use its best efforts to sell, in the manner, at the times, to the extent, and at the price or prices that the City directs or authorizes, any property of the types previously referred to herein, but Contractor (i) shall not be required to extend credit to any purchaser, and (ii) may acquire any such property under the conditions prescribed and at a price or prices approved by the City. The proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the City to Contractor under this Contract or shall otherwise be credited to the price or cost of the Work covered by this Contract or paid in such other manner as the City may direct.

8. Complete performance of such part of the Work as shall not have been terminated by the notice of termination.

9. Take such action as may be necessary, or as the City may direct, for the protection and preservation of the property related to this Contract which is in the possession of Contractor and in which the City has or may acquire an interest.

C. After receipt of a notice of termination, Contractor shall submit to the City its termination claim, in the form and with the certification the City prescribes.

Such termination claim shall be submitted promptly, but in no event later than 3 months from the effective date of termination, unless one or more extensions in writing are granted by the City upon written request of Contractor within such 3-month period or an authorized extension period. However, if the City determines that the facts justify such action, it may receive and act upon any such termination Claim at any time after such 3-month period or extension period. If Contractor fails to submit its termination Claim within the time allowed, the City may determine, on the basis of information available to the City, the amount, if any, due to Contractor because of the termination. The City shall then pay to Contractor the amount so determined.

D. Subject to the previous provisions of this Paragraph 14.03, Contractor and the City may agree upon the whole or any part of the amount or amounts to be paid to Contractor because of the total or partial termination of Work. The amount or amounts may include a reasonable allowance for profit on Work done. However, such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total Contract Sum as reduced by the amount of payments otherwise made and as further reduced by the Contract Sum of Work not terminated. The Contract shall be amended accordingly, and Contractor shall be paid the agreed amount. Nothing following, prescribing the amount to be paid to Contractor in the event of failure of Contractor and the City to agree upon the whole amount to be paid to Contractor because of the termination of Work under this Paragraph 14.03, shall be deemed to limit, restrict, or otherwise determine or affect the amount or amounts which may be agreed upon to be paid to Contractor pursuant to this subparagraph 14.03D.

E. If Contractor and the City fail to agree, as subparagraph 14.03D provides, on the whole amount to be paid to Contractor because of the termination of Work under Paragraph 14.03, the City shall determine, on the basis of information available to the City, the amount, if any, due to Contractor by reason of the termination and shall pay to Contractor the amounts determined as follows:

1. For all Contract Work performed before effective date of the notice of termination, the total (without duplication of any items) of the following items:

a. The cost of such Work.

b. The cost of settling and paying Claims arising out of the termination of Work under subcontracts or orders as previously provided. This cost is exclusive of the amounts paid or payable on account of supplies or materials delivered or services furnished by Contractor before the effective date of the notice of termination. These amounts shall be included in the cost on account of which payment is made for the cost of Work previously provided.

c. A sum, as profit on the cost of the Work as provided in subparagraph 14.03D, that the City determines to be fair and reasonable. But, if it appears that Contractor would have sustained a loss on the entire Contract had it been completed, no profit shall be included or allowed, and an appropriate adjustment shall be made reducing the amount of the settlement to reflect the indicated loss.

2. The reasonable cost of the preservation and protection of property incurred as previously provided. The total sum to be paid to Contractor shall not exceed the total Contract Sum as reduced by the amount of payments otherwise made and as further reduced by the Contract price of Work not terminated. Except for normal spoilage, and except to the extent that the City shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to Contractor the fair value, as determined by the City, of property which is destroyed, lost, stolen, or damaged, to the extent that it is undeliverable to the City, or to a buyer as previously provided.

F. Contractor shall have the right to dispute in a court of competent jurisdiction within the State of California any determination the City makes under subparagraph 14.03E. But, if Contractor has failed to submit its termination Claim within the time provided and has failed to request extension of such time, it shall have no such right to dispute the City's determination. In any case where the City has determined the amount owed, the City shall pay to Contractor the following:

1. if there is no right to dispute hereunder or if a right to dispute has not been timely exercised, the amount so determined by the City; or

2. if a proceeding is initiated in a court of competent jurisdiction within the State of California, the amount finally determined in said proceeding.

G. In arriving at the amount due Contractor under this clause there shall be deducted:

1. all unliquidated advance or other payments on account theretofore made to Contractor, applicable to the terminated portion of this Contract;

2. any Claim which the City may have against Contractor in connection with this Contract; and

3. the agreed price for, or the proceeds of sale of, any materials, supplies, or other things kept by Contractor or sold, under the provisions of this Paragraph 14.03, and not otherwise recovered by or credited to the City.

H. If the termination hereunder be partial, before the settlement of the terminated portion of this Contract, Contractor may file with the City a request in writing for an equitable adjustment of the price or prices specified in the Contract relating to the contin-

ued portion of the Contract (the portion not terminated by the notice of termination). Such equitable adjustment as may be agreed upon shall be made in the specified price or prices. Nothing contained herein shall limit the right of the City and Contractor to agree upon the amount or amounts to be paid to the continued portion of the Contract when the Contract does not contain an established Contract price for the continued portion.

I. Contractor understands and agrees that the foregoing termination of Contract for convenience provisions shall be interpreted and enforced pursuant to cases interpreting and enforcing similar provisions in federal procurement contracts.

ARTICLE 15 - MISCELLANEOUS PROVISIONS

15.01 GOVERNING LAW AND VENUE

A. The Contract Documents shall be interpreted in accordance with the laws of the State of California and the provisions of the City's Charter and Administrative Code, including but not limited to Chapter 6 of the San Francisco Administrative Code, which is incorporated by this reference as if set forth herein in full.

B. Venue for all litigation relative to the formation, interpretation and performance of the Contract Documents shall be in San Francisco.

15.02 RIGHTS AND REMEDIES

A. All of City's rights and remedies under the Contract Documents will be cumulative and in addition to and not in limitation of all other rights and remedies of

City under the Contract Documents or otherwise available at law or in equity.

B. No action or failure to act by the City or the City Representative will constitute a waiver of a right afforded them under the Contract Documents, nor will such action or failure to act constitute approval of or acquiescence in a condition or breach thereunder, except as may be specifically agreed in writing. No waiver by City or the City Representative of any condition, breach or default will constitute a waiver of any other condition, breach or default; nor will any such waiver constitute a continuing waiver.

15.03 COMPLETE AGREEMENT

A. The Contract Documents constitute the full and complete understanding of the parties and supersede any previous agreements or understandings, oral or written, with respect to the subject matter hereof. The Contract Documents may be modified or amended only as specified in Paragraph 1.04 of these General Conditions.

15.04 SEVERABILITY OF PROVISIONS

A. Should the application of any provision of this Agreement to any particular facts or circumstances be found by a court of competent jurisdiction to be invalid or unenforceable, then (a) the validity of other provisions of this Agreement shall not be affected or impaired thereby, and (b) such provision shall be enforced to the maximum extent possible so as to effect the intent of the parties and shall be reformed without further action by the parties to the extent necessary to make such provision valid and enforceable.

END OF SECTION

SECTION 00 73 00

SUPPLEMENTARY CONDITIONS

1.1 SUMMARY

- A. This Document includes supplements that amend, delete, or modify provisions of Section 00 72 00, the General Conditions of the City and County of San Francisco, as required for the Work of this Contract.
- B. All provisions that are not so modified shall remain in full force and effect.

1.2 ARTICLE 1

- A. Amend Subparagraph 1.04A with the following new sub-subparagraph:
 - "1. Change Orders shall be executed and Unilateral Change Orders shall be issued using the DPW Online Signature Access System (the "OSAS"). Contractor shall provide to DPW a completed Request for User ID & Access form for each principal or employee authorized by Contractor to execute Change Orders (each such person is referred to as an "Individual Certificate Holder"). Each Individual Certificate Holder shall (1) complete training on the electronic OSAS approval system (training to be provided by the City at no expense to contractors and consultants), and (2) execute a DPW "Online System Security Agreement" form on behalf of its company and submit the form to DPW. Contractor is responsible for submitting a completed Request for User ID & Access form to change the access or remove authorization of an Individual Certificate Holder."

1.3 ARTICLE 2

- A. Amend Paragraph 2.02 with the following new subparagraph 2.02C:
 - "C. Contractor will be furnished 2 Project Manuals at no cost. Contractor shall pay the reproduction costs of any additional sets required. Contractor will be furnished one set of Documents required for subsequent modifications, Change Orders, and Proposed Change Orders."

1.4 ARTICLE 3

- A. Add the following new paragraph:
 - "3.22 DESIGN PROFESSIONAL SERVICES
 - A. In the event that the Contract Documents require that a certain Item be designed by Contractor, Contractor shall, consistent with applicable licensing laws, retain the services of such Design Professional(s) who shall be licensed in the State of California and shall have the necessary expertise and experience required to prepare such design documents to permit Contractor to complete such Item in accordance with the requirements of the Contract Documents. Nothing in the Contract Documents is intended to create a legal or contractual relationship between the City and any Design Professional.

- B. Such Design Professional(s) shall be vested with the authority to act on behalf of Contractor in all matters relating to design or supervision of construction of that Item of which he or she is responsible. Contractor's Design Professional(s) may be replaced only with the approval of the City.
- C. Contractor shall require its Design Professional(s) to be responsible without limitation for the following:
1. Consult with authorized employees, agents and representatives of the City relative to the City's requirements for the design and construction of the Project.
 2. Review the Contract Documents and existing Reference Documents and studies of the proposed Site and other data furnished to the Design Professional and advise the City whether such data is sufficient for purposes of design, and whether additional data is necessary before the Design Professional can proceed.
 3. Provide additional surveys and information related to the Site, which the Design Professional deems necessary for the performance of the Work.
 4. Provide design-related services for preparing construction documents necessary for Contractor to construct and interface the Item in complete conformance with the intent and performance requirements of the Contract Documents.
 - a. Construction documents shall be submitted to the City for review and acceptance for conformance with the intent and performance requirements of the Contract Documents prior to Contractor initiating permit or construction activities based on such construction documents.
 - b. The City's approval or acceptance of construction document submitted by Contractor shall not be interpreted as a release of Contractor from its responsibilities to coordinate the various portions of the design and to provide accurate and complete design documents to fulfill the intent and requirements of the Contract Documents.
 5. Provide to the City design data, technical criteria and assistance necessary for supporting, protecting, and incorporating into the Project the Item designed by the Design Professional.
 6. Comply with requirements of codes, regulations, and written interpretation thereof, existing at the time permit application(s) are made with the local authorities having jurisdiction over the Project.
 7. Provide Design Professional's professional liability policies and coverages as required in Section 00 73 16.
 8. Provide assistance in connection with the start-up, testing, refining and adjusting of equipment or system designed by the Design Professional for incorporation into the Project.
 9. Assist the City in training staff and developing systems and procedures for operation and maintenance and record keeping for equipment or system designed by the Design Professional for incorporation into the Project.
- D. Contractor shall be wholly responsible for all engineering and design of such Item regardless of any contribution, input, review, participation, or coordination that the City, its agents, members, employees, and authorized representatives may have provided to Contractor or its Design Professional.

- E. Contractor agrees to release the City, its agents, members, employees, and authorized representatives from liability or losses directly or indirectly arising out of, connected with, or resulting from such Items engineered or designed by Contractor or its Design Professional or furnished and installed by Contractor and shall bear the costs of corrective and replacement work necessary to complete the Items in accordance with the requirements of the Contract Documents."

1.5 ARTICLE 6

- A. Add the following new subparagraphs to subparagraph 6.06A.1:

- "d. For electrical Work, labor productivity rates shall be based on the most current edition of "N.E.C.A." Column 3 with a 10 percent reduction.
- e. For mechanical Work, labor productivity rates shall be based on the most current edition of "M.C.A." with a 20 percent reduction."

- B. Add the following new subparagraphs to subparagraph 6.06A.2:

- "a. For electrical work, material costs shall be based on the most current Biddle Book, end column, with a 10 percent reduction.
- b. For mechanical work material costs shall be based on the most current Reeves Manual with a 30 percent reduction."

END OF SECTION

SECTION 00 73 02

CONTRACT TIME AND LIQUIDATED DAMAGES

1.1 SUMMARY

- A. This Document specifies the limits of Contract Time and amounts of liquidated damages agreed to be assessed should the Work be incomplete after the limits of Contract Time.

1.2 CONTRACT TIME

- A. The Work shall be commenced within 5 calendar days from issuance of the Notice to Proceed by the City, prosecuted diligently thereafter, and brought to Substantial Completion within the time limit of **144** consecutive calendar days.
 - 1. The date of the Notice to Proceed will be set by the City within 14 calendar days after the certification of the Contract.
 - 2. The time allowed for achieving Substantial Completion as specified above shall include the time required for public notification, application and approval for all required permits, and submittals prior to start of construction work.
- B. Final Completion shall occur no later than **30** consecutive calendar days after the date of Notice of Substantial Completion.

1.3 LIQUIDATED DAMAGES

- A. The City and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay the City and County of San Francisco the sum of two thousand dollars (\$1,500.00) for each calendar day that transpires with the Work not Substantially Completed after the time limit for achieving Substantial Completion specified in Paragraph 1.2A.
- B. In addition, Contractor shall pay the sum of five hundred dollars (\$500.00) for each calendar day that transpires with the Project not Finally Completed after the time limit for achieving Final Completion specified in Paragraph 1.2B.

END OF SECTION

SECTION 00 73 16

INSURANCE REQUIREMENTS

1.1 SUMMARY

- A. This Document includes insurance requirements, which amend Article 11 of the General Conditions.

1.2 CONTRACTOR'S LIABILITY INSURANCE

- A. Contractor shall maintain in full force and effect, for the period covered by the Contract, the following liability insurance with the following minimum specified coverages or coverages as required by laws and regulations, whichever is greater:
1. Worker's Compensation in statutory amount, including Employers' Liability coverage with limits not less than \$1,000,000.00 each accident, injury, or illness. The Worker's Compensation policy shall be endorsed with a waiver of subrogation in favor of the City for all work performed by the Contractor, its employees, agents and subcontractors.
 2. Commercial General Liability insurance with limits not less than \$1,000,000.00 each occurrence, and \$2,000,000 general aggregate, combined single limit for bodily injury and property damage, including coverage for Contractual Liability, independent contractors, Explosion, Collapse, and Underground (XCU), Personal Injury, Broadform Property Damage, and completed operations.
 3. Commercial Automobile Liability insurance with limits not less than \$1,000,000.00 each occurrence combined single limit for bodily injury and property damage, including owned, hired or non-owned vehicles, as applicable.

1.3 ADDITIONAL COVERAGES

- A. Builder's Risk Insurance: Contractor shall provide "Special Form" (All Risk) Builder's Risk Insurance on a replacement cost basis as follows:
1. Amount of Coverage: The amount of coverage shall be equal to the full replacement cost on a completed value basis, including periodic increases or decreases in values through change orders. The policy shall provide for no deduction for depreciation. The policy shall provide coverage for "soft costs," such as but not limited to design and engineering fees, code updates, permits, bonds, insurances, and inspection costs caused by an insured peril; the policy may limit the amount for soft costs but such limit shall not be less than 5% of the coverage amount. Alternatively the City shall have the right to require a specific dollar amount for coverage for soft costs that may be greater or less than 5%. The Builder's Risk Insurance shall also include the full replacement cost of all City-furnished equipment, if any.
 2. Additional Premium: If, due to change orders or project term extensions authorized by the City, the Builder's Risk policy becomes subject to additional premium, the City will reimburse Contractor the actual cost of such additional premium, without markup, provided that the Contractor submits to the City proof of payment of such additional premium and either:
 - a) copy of the applicable endorsement to the Builder's Risk policy, if the Builder's Risk Policy is issued on a declared-project basis; or
 - b) copy of Evidence of Property Insurance if the Builder's Risk policy is placed on a reporting form basis.
 3. Parties Covered: The Builder's Risk policy shall identify the City and County of San Francisco as the payee. The policy shall include as additional named

- insureds the City and County of San Francisco, the Contractor and its subcontractors of every tier.
4. Included Coverage: The Builder's Risk Insurance shall include, but shall not be limited to, the following coverages:
 - a) All damages of loss to the Work and to appurtenances, to materials and equipment to be incorporated into the Project while the same are in transit, stored on or off the Project site, to construction plant and temporary structures.
 - b) The perils of fire, lightning, windstorm, hail, explosion, riot, riot attending a strike, civil commotion, smoke damage, damage by aircraft or vehicles, vandalism and malicious mischief, theft, collapse, and water damage.
 - c) The costs of debris removal, including demolition as may be made reasonably necessary by such covered perils, resulting damage, and any applicable law, ordinance, or regulation with a sub-limit of not less than 25% of the value of the construction contract.
 - d) Start up and testing and machinery breakdown including electrical arcing.
 - e) Consequential loss (lost revenues and costs of funding or financing when a covered risk causes delay in completing the Work). In the event the City receives coverage specifically for a consequential loss associated with delay to the completion of the Project, such specific amount shall be credited against any liquidated damages for delay for which the Contractor would otherwise be responsible.
 5. Deductibles: The Builder's Risk Insurance may have a deductible clause not to exceed the amounts below. Contractor shall be responsible for paying any and all deductible costs. The deductible for coverage of All Perils shall not exceed the following:
 - a) \$25,000 for projects valued up to \$25,000,000;
 - b) \$50,000 deductible for projects valued in excess of \$25,000,000 and up to \$75,000,000; and
 - c) \$100,000 deductible for projects valued in excess of \$75,000,000.
- B. Professional Liability Insurance: In the event that Contractor employs professional engineering or land surveyor services for performing field engineering or preparing design calculations, plans and specifications, Contractor shall require the retained engineers and land surveyors to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors, or omissions in connection with professional services to be provided under this Contract.
- C. Environmental Pollution Liability: The Contractor, or its subcontractors, who perform abatement of hazardous or contaminated materials removal shall maintain in force, throughout the term of this Contract, Contractor's Pollution Liability and/or Asbestos Pollution Liability and/or Errors & Omissions insurance applicable to the work being performed with limits not less than \$1,000,000 per claim or occurrence and \$2,000,000 aggregate per policy period of one year, including coverages for on-site or off-site third party claims for bodily injury and property damage. This coverage shall also be endorsed to include Non-Owned Disposal Site coverage.

1.4 INSURANCE FOR OTHERS

- A. For general liability, environmental pollution liability and automobile liability insurance, Contractor shall include as additional insured, the City, its board members and commissions, and all authorized agents and representatives, and members, directors, officers, trustees, agents and employees of any of them.

- B. Other parties to be protected by Contractor's liability insurance shall be as follows:
 - 1. City's consultants and/or subconsultants: None.
 - 2. Non-City Agencies: None.

1.5 FORMS OF POLICIES AND OTHER INSURANCE REQUIREMENTS

- A. Before commencement of the Work of this Contract, or in an emergency, as soon thereafter as possible, certificates of insurance and policy endorsements in form and with insurers acceptable to the City, evidencing all required insurance and with proper endorsements from Contractor's insurance carrier identifying as additional insureds the parties indicated under Article "Insurance for Others" above, shall be furnished to the City, with complete copies of policies to be furnished to the City promptly upon request. Contractor will be allowed a maximum of 10 working days, after the date on which the Contract is awarded, or after the emergency work is commenced, in which to deliver appropriate bond and insurance certificates and endorsements.
- B. Approval of the insurance by the City shall not relieve or decrease the extent to which Contractor or subcontractor of any tier may be held responsible for payment of any and all damages resulting from its operations. Contractor shall be responsible for all losses not covered by the policy, excluding damage caused by earthquake and flood consistent with section 7105 of the California Public Contract Code in excess of 5 percent of the Contract Sum, including the deductibles. All policies of insurance and certificates shall be satisfactory to the City.
- C. The Contractor and its subcontractors shall comply with the provisions of California Labor Code section 3700. Prior to commencing the performance of work, the Contractor and all of its subcontractors shall submit to the awarding department a certificate of insurance against liability for workers compensation or proof of self-insurance in accordance with the provisions of the California Labor Code.
- D. Liability insurance, with an allowable exception for professional liability insurance, shall be on an occurrence basis, and said insurance shall provide that the coverage afforded thereby shall be primary coverage (and non-contributory to any other existing valid and collectable insurance) to the full limit of liability stated in the declaration, and such insurance shall apply separately to each insured against whom claim is made or suit is brought, but the inclusion of more than one insured shall not operate to increase the insurer's limits of liability.
- E. Except for professional liability insurance, should any of the required insurance be provided under a form of coverage that includes an annual general aggregate limit or provides that claims investigation or legal defense costs be included in such annual general aggregate limit, such general annual aggregate limit shall be two times the occurrence limits stipulated. City reserves the right to increase any insurance requirement as needed and as appropriate.
- F. Should any of the required insurance be provided under a claims-made form, Contractor shall maintain such coverage continuously throughout the term of this Contract, and without lapse, for a period 4 years beyond the Contract Final Completion date, to the effect that, should occurrences during the Contract term give rise to claims made after expiration of the Contract, such claims shall be covered by such claims-made policies.
- G. Contractor shall provide 30 days' advance written notice to the City of cancellation, intended non-renewal, or reduction in coverage, except for non-payment for which no less than 10 days' notice shall be provided to City. All notices shall be made to:

Manager, Contract Administration Division
City and County of San Francisco
1155 Market Street, 4th Floor

San Francisco, CA 94103.

- H. Contractor, upon notification of receipt by the City of any such notice, shall file with the City a certificate of the required new or renewed policy at least 10 days before the effective date of such cancellation, change or expiration, with a complete copy of the new or renewed policy.
- I. If, at any time during the life of this Contract, Contractor fails to maintain any item of the required insurance in full force and effect, all Work of this Contract may, at City's sole option, be discontinued immediately, and all Contract payments due or that become due will be withheld, until notice is received by the City as provided in the immediately preceding Subparagraph "G" that such insurance has been restored to full force and effect and that the premiums therefor have been paid for a period satisfactory to the City.
- J. Any failure to maintain any item of the required insurance may, at City's sole option, be sufficient cause for termination for default of this Contract.

1.6 QUALIFICATIONS

- A. Insurance companies shall be legally authorized to engage in the business of furnishing insurance in the State of California. All insurance companies shall have a current A.M. Best Rating not less than "A-,VIII" and shall be satisfactory to the City.

END OF SECTION

SECTION 00 73 17

CADD DOCUMENT LIABILITY WAIVER AND RELEASE

1.1 SUMMARY

- A. The City may issue to Contractor computer-aided design document (CADD) files, which were prepared for the City for the Work of Project, in electronic format for the limited purpose of facilitating Contractor's design of the Work.

1.2 PROJECT CONDITIONS

- A. The City's issuance of Project CADD files to Contractor is not a representation of the completeness or accuracy of the information contained in the files.
- B. Because Contractor is required to perform all Work in accordance with the requirements of only the printed versions of the Bid Documents for Project as originally issued or modified in accordance with the Contract Documents, Contractor shall review the CADD files for the same accuracy and completeness as the original printed versions prior to Contractor's use and shall certify that all information contained in said Project CADD files accurately conforms to said Contract Documents.
- C. Contractor agrees not to transmit to third parties or otherwise reuse Project CADD files without prior written consent of the City. Unauthorized use of Project CADD files shall be at the sole liability of the user.
- D. Contractor hereby agrees to release the City from inaccuracies, incompleteness, or discrepancies between Project CADD files and said printed versions of the Contract Documents.
- E. Contractor shall be responsible for all damages resulting in whole or in part from inaccuracies, incompleteness, or discrepancies between said Project CADD files and said printed versions of the Contract Documents.

END OF SECTION

SECTION 00 73 20

EXISTING UTILITY FACILITIES

1.1 SUMMARY

- A. This Section includes special requirements for existing utilities and underground facilities owned or controlled by any person or entity, private or governmental, referred to herein as "Utility Operators," which may be encountered by Contractor performing the Work.
- B. Utility facilities in public streets that are within the jurisdiction of the Department of Public Works shall be governed by the applicable provisions of the San Francisco Public Works Code, Sections 906, 907, 908, 909, and 910. The Utility Crossings Specifications is based on agreements with non-governmental agencies for removal, support and relocation of privately-owned utility facilities.

1.2 EXISTING UTILITIES INDICATED

- A. The Contract Documents may identify or include utility occupancy drawings or utility reference drawings, hereinafter called "reference drawings," showing the approximate locations and other details, of pipes, conduits, structures and other utility facilities which are based on information and data furnished the City by the Utility Operators.
 - 1. Reference drawings do not form part of the Contract Documents. It is understood that the City makes no representation as to the completeness or accuracy of said reference drawings or other information available to Contractor and assumes no responsibility therefor.
- B. With respect to existing utility facilities, the Contractor shall assume the cost and responsibility for the following:
 - 1. Reviewing and checking all such reference drawings or information.
 - 2. Locating all underground facilities indicated in the reference drawings or other information available to Contractor.
 - 3. Coordinating the Work with the Utility Operators and construct the Work to clear existing utility facilities.
 - 4. The safety and protection of all such utility facilities as provided in Article 12 of the General Conditions (Section 00 72 00) and repairing damage thereto which may result from the Work.
 - 5. Removing, adjusting, and relocating existing utility facilities located in, over or around the location of the Work as necessary to allow the prosecution of the Work, when such work to the existing utility facilities is indicated in the Contract Documents.

1.3 EXISTING UTILITIES NOT INDICATED

- A. Consistent with the provisions of section 4215 of the California Government Code, the City will assume the responsibility for the timely removal, relocation, or protection of existing main or trunk line utilities located on the site of the Work, if such utilities are not identified in the Contract Documents, reference drawings or other information available to Contractor.
- B. Contractor shall notify promptly the City and the Utility Operators in writing, and before further disturbing conditions affected thereby, of such unforeseen or differing utilities it discovers while performing the Work.
- C. Contractor shall negotiate with the Utility Operator, who shall have the sole discretion to perform repairs or relocation work or permit Contractor to do such repairs or relocation work at a reasonable price.

- D. For Work which physically conflicts with existing non-City owned utilities that were not indicated in the Contract Documents, the Contractor shall seek reimbursement for additional cost incurred from the non-City Utility Operator.
- E. For Work which physically conflicts with existing City owned utilities that were not indicated in the Contract Documents, the Contractor will be compensated per Subsection 1.4
- F. Contractor will be granted a non-compensable time extension and shall not be assessed liquidated damages for delay in completion of the Work if the delay was caused by such existing main or trunk line utilities in direct conflict with the Work and not indicated in the Contract Documents, reference drawings or other information available to Contractor.
- G. Contractor shall not be entitled to any adjustment in the Contract Sum or Time if the extra work could have been avoided by:
 - 1. reasonable examination, investigation, exploration, test or study of the site and contiguous areas as required by the Contractor to locate all underground utility facilities and coordinate such existing utilities with the work prior to commencing the Work; or
 - 2. reasonable inference from the presence of other visible facilities, such as buildings, meter, utility castings, junction boxes, vaults, and etc., to locate all underground utility facilities and coordinate such existing utilities with the Work prior to commencing the Work.

1.4 GOVERNMENTAL FACILITIES IN THE CITY OF SAN FRANCISCO

- A. Contractor shall satisfactorily support, work around, and protect, as approved by the City, all facilities, whether shown on the Drawings or not, which exist within any excavation and which are owned or controlled, and maintained, by a City department or other authority in the exercise of a governmental function, including, but not limited to, traffic control, lighting, police communication and fire alarm systems, and all conduits, wiring and related appurtenances for such systems; sewers and sewer structures; Water Enterprise facilities; pipes and facilities of the Auxiliary Water Supply System for Fire Protection; the Municipal Railway and Hetch Hetchy Water and Power overhead lines and power feeder systems serving the Municipal Railway; and other Hetch Hetchy Water and Power facilities.
 - 1. Municipal Railway facilities, Hetch Hetchy Water and Power facilities serving the Municipal Railway, and other Hetch Hetchy Water and Power facilities, if encountered, shall be supported in a manner satisfactory to the City.
 - 2. Auxiliary Water Supply for Fire Protection facilities, if encountered, shall be supported by a minimum of one cable with turnbuckle, a strongback, and a beam spanning the trench; however, where a joint falls within the trench area, a cable with turnbuckle shall be placed on each side of the joint. All such support work shall be subject to the approval of the City before commencement thereof. After supports are removed and the pipe is sufficiently supported by partial backfill, but with the joints exposed, the pipe shall be subjected to a hydrostatic field test of 350 psi pressure in accordance with section 908.22 of the DPW Standard Specifications (refer to Division 1 for reference standards) before final backfill is placed. If a joint is visibly wet, Contractor shall repair the joint in accordance with section 910 of the DPW Standard Specifications.
 - 3. If vitrified clay pipe side sewers or culverts are encountered, Contractor may elect, in lieu of supporting such side sewers and culverts, to cut and restore those portions of the side sewers and culverts which obstruct the prosecution of the Work, provided that it complies with the provision of section 301 of the DPW Standard Specifications regarding the handling and disposal of seepage, storm water and sewage.
 - 4. Water Enterprise facilities, if encountered, shall be supported as follows:

- a. Push-on joint pipes: Pipes shall be supported by a minimum of one cable with turnbuckle, a pipe clamp and a beam spanning the trench; however, where a joint falls within a trench area, a cable with turnbuckle and pipe clamp shall be placed on each side of the joint.
 - b. Copper tubing and plastic pipes (service pipes 2 inches or smaller in diameter): If the trench is less than 8-foot wide, no support is required. For trenches wider than 8 feet, one support is required for every additional 8 feet or part thereof.
 - c. Steel welded pipes: Pipes shall be supported in a manner satisfactory to the General Manager of the Public Utilities Commission of the City and County of San Francisco.
 - d. Contractor shall submit support designs for approval and start work only with approved support designs.
5. The adjustment of manhole castings and other castings of governmental facilities, and the paving adjacent thereto, shall be done in accordance with the requirements of section 217 of the DPW Standard Specifications.
- B. Supporting, working around, and protecting existing governmental facilities indicated in the Contract Documents, reference drawings or other information available to Contractor shall be considered incidental work and no direct or additional payment will be made therefor.
- C. Governmental facilities not shown on the Contract Documents, reference drawings or other information available to Contractor that require removal, adjustment or relocation to avoid direct physical conflict with the facilities to be constructed under the Contract shall:
- 1. be removed or adjusted by Contractor in accordance with the provisions of the Contract Documents; or
 - 2. in the absence of such provisions, be removed or adjusted by Contractor on a force account basis as set forth in Paragraph 6.07 of General Conditions (Section 00 72 00); or
 - 3. be removed or adjusted by other suitable procedure at the City's expense.

1.5 NON-GOVERNMENTAL FACILITIES IN THE CITY OF SAN FRANCISCO

- A. The procedure to be followed with respect to non-governmental utility facilities owned or controlled by any person, company, firm or corporation, in the exercise of a proprietary function is covered by sections 906, 907, 908, 909, and 910 of the San Francisco Public Works Code (part II, chapter X, of the Municipal Code).
- B. The method of application of the provisions of these Public Works Code sections is described in the following subparagraphs:
- 1. If the cost of removing or adjusting a utility facility, (a) materially exceeds the cost of so modifying the Work that it can be done satisfactorily without the removal or adjustment of the facility, or (b) materially exceeds the increase in the cost of Contractor's operations that would be occasioned to it by the uninterrupted presence of the facility if it were not removed or adjusted, then, in either case, the City will, if requested by the Utility Operator, waive the requirement that the facility be removed or adjusted and allow it to remain in place, provided that (1) the Utility Operator obtains the consent of Contractor to such waiver in return for such compensation, if any, by the Utility Operator as may be just and equitable and no expense is occasioned either directly or indirectly to the City by such waiver, (2) the City determines that it is economically and technically feasible to change the Project design without affecting its performance, and (3) the Utility Operator agrees to compensate the City for the expense, if any, of revising the Drawings and Specifications as necessary to accomplish the appropriate modification of the Work. Should a Utility Operator, in satisfying the requirements of the immediately preceding subparagraph, notify Contractor of its intention to leave the facility in place,

Contractor shall, within 10 days, furnish to the Utility Operator a quotation covering the entire cost of supporting, working around or protecting, as necessary, such facility. In the event a Utility Operator and Contractor cannot agree upon the amount of the compensation, if any, to be paid by the Utility Operator to Contractor, then the Director of the San Francisco Public Works, with or without the consent of Contractor, will, if he or she determines that it would be uneconomical and contrary to the public interest to remove or adjust the utility facility, and if the Utility Operator promises in writing to pay to the City the amount of the expense incurred by the City under the Change Order next hereinafter mentioned, waive the requirement that the facility be removed or adjusted and will issue an appropriate Change Order to Contractor in accordance with the provisions of Article 6 of the General Conditions (Section 00 72 00) to modify the Work or to modify its operations, as the case may be, as necessary to accommodate the continued presence of the facility.

2. In lieu of the procedures set forth in subparagraph 1.5B.1, agreements have been executed between various utility companies and agencies, and the City, enabling such companies and agencies to have included in City contracts the work of supporting, working around, and protecting their facilities. The work of supporting, working around, and protecting such facilities may or may not be included in a contract. Such work, if included in a contract, will be paid for by the various utility companies and agencies directly to Contractor in conformance with the provisions of the Utility Crossing Specifications (Section 00 73 21). Requirements for performance of this work are also contained in the Utility Crossing Specifications. Such work, if not included in a contract, but encountered in the field, shall be subject to the provisions of this Article, excluding this subparagraph 1.5B.2.

- C. Pursuant to the provisions of subparagraphs 1.5B.1 and 1.5B.2, Contractors shall not include in their Bids expense on account of the presence, or possible presence, of non-governmental utility facilities, except only that which might be included for forming around manhole frames and other castings with boxes as specified in section 217 of the DPW Standard Specifications.
- D. If during the course of the Work an unexpected interference by a non-governmental utility facility is discovered, Contractor shall immediately notify the Utility Operator of the interfering facility so that the required procedure outlined in subparagraph 1.5B.1 or 1.5B.2, as applicable, may be followed in a manner to cause no delay in the Work.

1.6 ABANDONED UTILITY FACILITIES

- A. These provisions do not apply to abandoned utility facilities. Any increase in the cost of Contractor's operations occasioned by the presence and/or removal of abandoned facilities shall be at the sole expense of Contractor and no additional payment will be made by the former Utility Operators or by the City, except that removal of abandoned utility facilities, not shown on the Drawings or specified to be removed, shall be removed by Contractor on a force account basis as provided in Paragraph 6.07 of the General Conditions (Section 00 72 00).

1.6 USE OF PAVEMENT BREAKER ADJACENT TO UTILITY FACILITIES LIMITED

- A. In accordance with the requirements of section 373 of the Public Works Code, Contractor may use pavement breakers or other labor-saving devices; however, the use of any machine or device that breaks pavement by blows struck by a falling or driven hammer or weight is prohibited within a horizontal distance of 6 feet from any gas, sewer, water or Auxiliary Water Supply System pipe, communications duct or any other utility facility.
 1. Such prohibition, however, shall not be construed as barring the use of hand tools or manually operated air tools such as jackhammers.

END OF SECTION

SECTION 00 73 21

UTILITY CROSSINGS SPECIFICATIONS (Effective January 2018)

SECTION U1. SUPPORT, WORK AROUND, AND PROTECT EXISTING UTILITY COMPANY FACILITIES-GENERAL SPECIFICATIONS

I. General

Contractor shall support, work around, and protect Pacific Gas and Electric Company (PG&E), Pacific Bell Telephone Company D/B/A AT&T California (AT&T), and Comcast Corp. (Comcast) facilities, as applicable, where shown on the Drawings or where directed, at utility crossings which exist within the excavations and interfere with the prosecution of the work because of their presence.

This Section covers supporting documentation required from Contractor and direct payment by Utility Company to the Contractor for all costs incurred as a result of the work performed by the Contractor to support, work around and/or protect Utility Facility within the Project Limit.

A "Utility Crossing" is defined as any facility (Utility Main, Duct Structure, or Service) located within the excavation area, where the facility will remain in place and will not be relocated, abandoned in place, or removed.

If provided by the Utility Companies prior to advertisement of this Contract, Utility Contract Drawings showing Utility Crossings will be incorporated into the Contract Drawings. Utility facilities which the Utility Company intends to adjust or abandon thus eliminating the need for Contractor to support, work around, or protect will also be shown. Estimates of the cost of Utility Crossing work will be included with the Drawings.

Within 45 calendar days of notification of the award of the City contract, PG&E, AT&T, and Comcast, as applicable, will execute a payment agreement with the Contractor and will pay said Contractor directly for the work of supporting, working around, and protecting such facilities, according to the Cost of Fixed Price Schedule, hereinafter set forth. The Utility Company is not required to accept or pay invoices submitted to Utility Company by a subcontractor. Prime contractor will not be allowed to mark up the invoices for the support and work around costs from the Subcontractor.

Work at crossings of other non-governmental utility company facilities in public streets shall be in accordance with the provisions of Section 00 73 20, Article 1.5, unless otherwise specified.

Any PG&E, AT&T, and Comcast, or other non-governmental facilities, as applicable, that require relocation to avoid physical conflict with the facilities to be constructed under this Contract will be relocated by the appropriate Utility Company in accordance with the requirements of Section 00 73 20, Article 1.5, or treated as otherwise allowed therein.

Fixed Price Schedule

Utility Crossings where the length of the Facility is not more than 3 times the width of the excavation for excavation widths less than 18 feet, shall be priced pursuant to the Fixed Price Schedules hereinafter set forth, and submitted to the Utility Company for payment.

Excavation width will be the outside diameter or width of the City structure plus 3 feet. The length of a Utility Crossing is the centerline distance, in feet, of the portion of the Facility within the excavation area.

Utility Co. Facility Support, Etc., Work Located in Contract but Utility Contract Drawings Omitted from Contract

In the event that Utility Contract Drawings from PG&E, AT&T, and Comcast, as applicable, are not included in the Contract but the Estimate and General Location of the Support, Work Around and Protect Work are known and included in the Contract, all such work performed will be paid for by the Utility according to the Cost of Fixed Price Schedule hereinafter set forth.

Abandoned and other facilities which the DPW Standard Specifications provide may be cut or treated by Contractor at its expense are excluded from this coverage.

Utility Co. Facility Support, Etc., Work Overlooked, Unexpected, and Not Shown on Utility Contract Drawings, but Ownership Known

Support, Work Around and Protect Work for those Utility Crossings overlooked, unexpected, and not shown on Utility Contract Drawings and Estimates will be paid for by the Utility Company according to the Cost of Fixed Price Schedule hereinafter set forth plus an additional fifteen (15) percent surcharge for Contractor's profit and overhead.

Abandoned and other facilities which the DPW Standard Specifications provide may be cut or treated by Contractor at its expense are excluded from this coverage.

No Surcharge for Certain Work

Due to urgent and contingency nature of the following contracts and related work, an additional fifteen percent (15%) surcharge does not apply:

- Emergency Contract Work
- As Needed Contracts including As Needed Spot Sewer Repair and Job Order Contracts
- Added Scope (Via Change Order or Addendum)
- Work performed under conditional Bid items

Negotiated Payment

Notwithstanding the Fixed Price Schedules hereinafter set forth, the Utility Company and the Contractor shall directly negotiate the costs for other crossings and encroachments including following:

- "Parallel" Utility Crossings,
- Utility Crossings with lengths more than three times the width of the excavation, and/or
- Where the computed cost of any crossing exceeds \$10,174.

If a utility facility is located longitudinally and directly on top of the City trench or multiple utility facilities crossing the City trench are located too close to each other leaving no space in between for the Contractor to excavate and shore the trench, and there is a need to change the construction method to install City facilities, the increased cost shall be shared by various utility agencies and City based on the number and size of each Utility agency or City department facilities.

Duct Structure

Duct structure is one or more ducts, conduits or pipes, of any size, or a combination of such ducts, conduits or pipes, which are grouped together but which may or may not be banded, encased in concrete, or otherwise incorporated into a solid unit.

Nested Utility Facilities

Nested utility facilities are defined as facilities six- inches (6") or less in outside diameter or width and are less than 3 feet clear distance from each other regardless of ownership. In the case of nested facilities, each crossing shall be paid for according to the Cost of Fixed Price Schedule reduced by 33-1/3%.

Abandoned or Inactive/Deactivated Facilities

Abandoned Facilities

Utility Company identifies abandoned facilities as facilities that they have stopped using with the intent of never using again. Utility Company may, but is not required to, specify abandoned facilities on its utility contract drawings. If City Contractor encounters unidentified utility company facility during construction, Contractor shall notify the Utility Company in accordance with paragraph "Unexpected or Unidentified Facilities". The Utility Company Inspector shall visit the site within the time mentioned to confirm that the facility is abandoned. If the Utility Company fails to confirm that facility is abandoned, the contractor will receive full payment per Fixed Price Schedule for support, work around and protect work performed.

Inactive/Deactivated Facilities

Utility Company identifies Inactive/Deactivated facilities as facilities that they have temporarily stopped using with the possible intent of future use. Utility Company will specify on its utility contract drawings Inactive Facilities. The Contractor will perform Utility Company Reimbursed Work around Inactive Facilities unless otherwise instructed by the Utility Company on the Utility Contract Drawings.

Flushing

Within 48 hours of the Utility Company's receipt of notice pursuant to paragraph "Unexpected or Unidentified Facilities", the Utility Company will either flush or inform the Contractor that the Utility Company has already flushed all Abandoned gas Facilities or Inactive/deactivated gas Facilities prior to removal by the Contractor.

Removal of Abandoned Facilities or Inactive Facilities

If necessary to construct City Project, the removal of Abandoned Facilities, and Inactive Facilities that the Company specifies on its Utility Contract Drawings that it intends to abandon will be at the Contractor's sole expense, except for removal of PG&E and AT&T owned duct banks, and conduits or pipes larger than twelve-inch (12") in outside diameter. Utility Company and the Contractor will negotiate the cost for removal of such PG&E and AT&T duct banks, and conduits or pipes larger than twelve-inch (12") in diameter.

Any increase in the cost of the Contractor's operations occasioned by the presence and/or removal of other abandoned subsurface facilities shall be handled in accordance with section 700.09 of the DPW Standard Specifications.

Payment Only for Work Performed by the Contractor

The Utility Company will not pay the Contractor unless actual work to support, work around and/or protect Utility Company's Facilities was performed. No payment shall be due to the Contractor if the Utility Company crews respond and are supporting, working around, and/or protecting their Company's Facilities, such as in an emergency, or if the Contractor does not actually perform any work or undertake any action to support, work around or protect the Utility Company's Facilities.

Third Party Insurance

The Contractor shall provide third party insurance naming the affected Utility Company or Utility Companies in addition to the City as an insured against claims for property damage and personal liability arising directly or indirectly from Utility work performed by the Contractor.

II. Contract Activities

The Contractor Measurement

The Contractor shall measure the outside diameter or width of Utility Crossings to the nearest inch (outside diameter **excluding** any fittings, bells, or gate valves) and length of the Utility Crossings to the nearest foot to determine the cost of each Utility Crossing according to the Fixed Price Schedule hereinafter set forth.

Utility Company's Right of Confirmation

The Utility Company shall have the right to confirm measurements with the Contractor but all disagreements shall be resolved without delay to the City Project.

Variations and Cost Adjustments

The Contractor shall notify the Utility Company immediately of any variation of Utility Crossings from the Utility Contract Drawings and/or estimate that require cost adjustment and such cost adjustments shall be settled within no more than two business days without delay to the City Project. Contractor shall also notify the City Representative immediately of any such variations, and any disagreement between Contractor and the Utility Companies regarding Utility Crossings will be decided prior to backfilling by the Director of Public Works or his or her designated City representative. The decision of the Director of Public Works will be final. The Contractor's only recourse is to file a claim.

Verification and the Contractor Itemization

Contractor shall keep an itemized record of the Utility Crossing work done, noting any variations from the Utility Contract Drawings and Estimates. The itemized record shall be maintained and copies submitted monthly to Company and the City as the City Contract work progresses, or as otherwise agreed by Company and City Contractor.

Supporting Documentation for City Projects other than Spot Sewer Repair Contracts

The Contractor shall, at a minimum, submit the following supporting documentation with each invoice submitted to the Utility Company for payment:

- Utility Facility Crossing Support and Work Around Summary and "Drawing for Support and Work Around Invoice for Utility Facilities" identifying Company reimbursed work by type of facility, and shall include following:
 - Identification of all Utility Crossings by alpha-numerical numbering system (e.g., E1, E2, G1, G2);
 - Location and size of all Utility Crossings
 - Length of all Utility Crossings
- Photos of following Utility Crossings:
 - Utility Crossings where the size of the Facility varies from that shown on Utility Contract drawings or estimates; any change of measurement requires one photo per block per size variation.
 - Utility Crossings not shown on Company's Utility Contract Drawings or estimates.
 - Parallel Utility Crossings showing measurements and potential facilities support
 - Utility Crossings six-feet (6') or longer unless:
 - Shown on Utility Contract Drawings and/or estimates and no variance.
 - Facility is a lateral that is crossing the City main facility trench having 6 feet or greater trench width and crossing length does not exceed the trench width.

Supporting Documentation for Spot Sewer Repair Contracts

The Contractor shall, submit following documentation with each invoice submitted to the Company for payment for Spot Sewer Repair Contracts:

- Utility Facility Crossing Support and Work Around Summary.
- "Drawing for Support and Work Around Invoice for Utility Facilities" identifying company reimbursed work by block, type of facility and shall include following:
 - Identification of all Utility Crossings by alpha-numerical numbering system (e.g., E1, E2, G1, G2);
 - Location and size of all Utility Crossings

- Length of all Utility Crossings.
- Invoice and as-built templates should be utilized and all information filled out in its entirety (e.g. City Representative's Name and Signature, Date, the Contractor's Full Name, Signature, etc.)
- Photos of following Utility Crossings:
 - All Duct Bank Structures and related measurements
 - All Utility Crossings six-feet (6') or greater in length
 - All unmarked active Utility Crossings that are supported
 - Each utility that varies in size and/or location from USA street marking(s).
- Underground Service Alert ticket number

Photos

All photos must include:

- Label with Utility Crossing Reference Number
- Name of Street or Intersection
- Above-ground picture that includes a landmark (street sign, or house) that helps identify location of the crossing.

Unexpected or Unidentified Facilities

If, during the course of the work, an unexpected or unidentified interference is discovered, the Contractor shall immediately call this fact to the attention of all Utility Companies, including appropriate City Departments. The City Departments and Utility Company shall have 48 hours from receipt of such notification including at least 8 working hours to determine ownership and provide direction to the Contractor for disposition of the facility which are not in direct conflict with City Project work and can be supported, worked around and protected in the trench. However, if the unidentified facility is in direct physical conflict with the City Project work and the Contractor cannot proceed further without resolution, the Utility Company and City Departments will visit the site as soon as possible within the 24 hours from receipt of such notification to determine ownership and provide direction to the Contractor. The time allowance shall include at least 8 working hours. If the ownership of the unidentified facility is unknown, the Contractor shall call Underground Service Alert (USA) requesting Utility Agencies to visit the site to identify the ownership. If no determination can be made after the aforementioned procedure is followed, the Contractor will follow the direction of the City Representative or authorized designee. Disposition shall be in accordance with the applicable requirements of Section 00 73 20, Article 1.5, if such facilities are owned by companies other than PG&E, AT&T, and Comcast. If ownership is by one or more of PG&E, AT&T, and Comcast, disposition shall be as hereinbefore set forth under the heading, "Utility Co. Facility Support, Etc., Work Overlooked, Unexpected, and Not Shown on Utility Contract Drawings, But Ownership Known."

Progress Payments

Progress payment for the utility crossing work done shall be made by Company within ninety (90) days of receipt of an invoice from the Contractor submitted along with the supporting documentation listed above.

III. METHOD OF DETERMINING UTILITY CROSSING COSTS

Fixed Price Schedule (Effective January 2018)

The cost of support, work around and protection of utility mains, duct structures and services shall be based on the outside diameter or width of said Facilities and the length of the Utility Crossing.

In the following schedules the maximum outside diameter shall mean outside diameter of pipe, conduit, service, duct or main **excluding** any fittings, bells, or gate valves, and width shall mean the distance measured horizontally across the duct structure.

$$\text{Cost of Utility Crossing} = \text{Fixed Cost} + \text{Support Cost}$$

Group I: Length of Crossing less than Six (6) Feet

| Maximum Outside Diameter Of Main And Service Or Width Of Duct Structure | Fixed Cost | Support Cost Per Foot of Length of Crossing |
|--|---|--|
| 4 inches or less | \$572 | 0 |
| Over 4 inches to 20 inches | \$572 + \$95 per inch over 4 inches | 0 |
| Over 20 inches | \$2,097 + \$159 per inch over 20 inches | 0 |

Group II: Length of Crossing Six (6) Feet to Twelve (12) Feet

| Maximum Outside Diameter Of Main And Service Or Width Of Duct Structure | Fixed Cost | Support Cost Per Foot of Length of Crossing Over Six Feet |
|--|---|--|
| 4 inches or less | \$731 | \$95 |
| Over 4 inches to 20 inches | \$731 + \$102 per inch over 4 inches | \$95 |
| Over 20 inches | \$2,186 + \$159 per inch over 20 inches | \$95 |

Group III: Length of Crossing greater than Twelve (12) Feet

| Maximum Outside Diameter Of Main And Service Or Width Of Duct Structure | Fixed Cost | Support Cost Per Foot of Length of Crossing Over Twelve Feet |
|--|---|---|
| 4 inches or less | \$1,303 | \$127 |
| Over 4 inches to 20 inches | \$1,303 + \$114 per inch over 4 inches | \$127 |
| Over 20 inches | \$3,133 + \$191 per inch over 20 inches | \$159 |

SECTION U2. SUPPORT, WORK AROUND, AND PROTECT EXISTING PACIFIC GAS AND ELECTRIC COMPANY (PG&E) UNDERGROUND FACILITIES - STANDARD TECHNICAL SPECIFICATIONS

The requirements for supporting, working around, and protecting existing Pacific Gas and Electric Company (PG&E) underground electric, gas and steam facilities are as follows:

For pipe and conduit in sizes up to and including 6 inches inside diameter, spans of less than 6 feet shall be considered self-supporting unless otherwise directed by the City or by the PG&E inspector through the City Representative. Spans of 6 feet and more, but not to exceed 12 feet, shall be supported by a beam with at least one cable and turnbuckle. For spans over 12 feet, an additional cable and turnbuckle shall be installed for each additional 6 feet or fraction thereof of span. Cables and turnbuckles shall be located to support

joints, valves and other fittings. Cast iron joints and valves, where encountered, shall be supported on both sides.

For pipe and conduit in sizes larger than 6 inches inside diameter, spans shall be supported by beams with cables and turnbuckles located at intervals not to exceed ten times the diameter of the pipe measured in inches, unless otherwise directed by the City or PG&E inspector through the City Representative. Cable and turnbuckles shall be located to support joints, valves, and other fittings. Cast iron joints and valves, where encountered, shall be supported on both sides.

Concrete-encased duct lines and/or concrete-encased steam lines shall not be considered as self-supporting, but may be so designated by the City or PG&E inspector through the City Representative, upon a visual examination of the concrete envelope.

Beams, cables and turnbuckles for supporting steel pipe and/or conduit shall be adequately sized to limit the deflection so as not to exceed length of span in feet divided by 360.

Length of span in feet

Beams, cables and turnbuckles used for supporting cast iron pipe shall be adequately sized to insure that no deflection will occur.

Beams, cables and turnbuckles used for supporting concrete encased duct lines and/or concrete encased steam lines shall be adequately sized and spaced to insure that no deflection will occur.

For multi-way conduits, spacers shall be placed to maintain conduit separation at point of support. 2-inch x 4-inch wood softeners shall be used with all cable slings to prevent damage to pipe, coating, wrapping or concrete encasement. However, slings supporting unreinforced concrete encased pipe must also incorporate strongbacks to prevent cracking of concrete.

Contractor shall exercise due care to avoid damage to pipe and pipe coatings, wrapping or concrete encasement. Should Contractor damage or displace any PG&E facility Contractor shall notify the PG&E immediately by calling Gas Dispatch at 995-5666 (gas and electric facilities). Repairs or replacements will be made by the PG&E. However, all expenses in connection therewith shall be borne solely by Contractor. Contractor shall notify the PG&E Inspection Department at 695-3358 one week prior to excavating so that all crossings can be verified.

SECTION U3. SUPPORT, WORK AROUND, AND PROTECT EXISTING PACIFIC BELL TELEPHONE COMPANY D/B/A AT&T CALIFORNIA (AT&T) UNDERGROUND FACILITIES - STANDARD TECHNICAL SPECIFICATIONS

General

The requirements for supporting, working around, and protecting existing AT&T underground facilities are as follows:

Requirements for Supporting AT&T Ducts

A single duct spanning less than 6 feet shall be considered self-supporting unless otherwise directed by the City or by the AT&T inspector through the City Representative.

A single duct spanning more than 6 feet shall be supported by a beam with at least one cable and turnbuckle. For spans over 12 feet, an additional cable and turnbuckle shall be installed for each additional 6 feet or fraction thereof of span. Cables and turnbuckles shall be located to support duct joints.

Duct structures consisting of 2 or more single ducts not encased in concrete and spanning more than 4 feet, shall be banded with at least 2 bands and supported by a beam with at least one cable and turnbuckle. For spans over 8 feet, an additional set of bands, cable and turnbuckle shall be installed for each additional 4 feet or fraction thereof of span. Banding of ducts shall be done in such a manner as to not distort the normal configuration of the structure.

Duct structures consisting of 2 or more single ducts, encased in concrete and spanning more than 4 feet, shall be supported by a beam with at least one cable and turnbuckle. For spans over 8 feet, an additional cable and turnbuckle shall be installed for each additional 4 feet or fraction thereof of span.

Multiple-duct structures of vitrified clay and/or concrete shall be supported for the complete width of the trench. The support shall consist of planking or beams equal in width to the width of the structure and banded to it. This structure in turn shall be supported by a beam with at least one cable and turnbuckle placed every 4 feet or fraction thereof so as to maintain the existing position and alignment of the duct structure.

Duct structures consisting of dissimilar conduit materials shall be supported in the manner applicable to the most fragile portion of the structure.

Requirements for Protecting AT&T Ducts

Single ducts shall be protected if required. This determination will be made by the City or by the AT&T inspector through the City Representative.

Duct structures having top and bottom wood planking or encased in concrete will not require additional protection unless otherwise directed by the City or by the AT&T inspector through the City Representative.

All other multiple duct structures, with the exception of steel pipe in good condition, shall be protected by the placement of wood planking or sheeting no less than 1/2-inch in thickness and equal in width to the width of the structure.

Damage or Displacement of AT&T Facilities

Should Contractor damage or displace any AT&T owned facility, the Cable Maintenance Department of AT&T shall be notified immediately by calling 863-6906. Repairs or replacements will be made by AT&T. However, all expenses in connection therewith shall be borne solely by Contractor.

SECTION U4. SUPPORT, WORK AROUND, AND PROTECT EXISTING COMCAST CORP. (COMCAST) UNDERGROUND FACILITIES - STANDARD TECHNICAL SPECIFICATIONS

General

The requirements for supporting, working around, and protecting existing Comcast underground facilities are as follows:

Requirements for Supporting Comcast Corp. Ducts

A single duct spanning less than six (6) feet shall be considered self-supporting, unless otherwise directed by the Comcast engineering coordinator or the Comcast inspector, through the City Representative.

A single duct spanning more than six (6) feet shall be supported by a beam with at least one cable and turnbuckle. For spans over twelve (12) feet, an additional cable and turnbuckle shall be installed for each additional six (6) feet or fraction thereof of span. Cables and turnbuckles shall be located to support duct joints.

Duct Structures consisting of two (2) or more single ducts spanning more than four (4) feet shall be banded with at least two (2) bands and supported by a beam with at least one (1) cable and turnbuckle. For spans over eight (8) feet an additional set of bands, cable, and turnbuckle shall be installed for each additional four (4) feet or fraction thereof of span. Banding of ducts shall be done in such a manner as to not distort the normal configuration of the structure.

Duct structures consisting of dissimilar conduit materials shall be supported in the manner applicable to the most fragile portion of the structure.

Requirements for Protecting Comcast Ducts

Single ducts shall be protected if required. This determination will be made by the Comcast engineering coordinator or by the Comcast Corp. inspector, through the City Representative.

Duct Structure having top and bottom wood planking will not require additional protection unless otherwise directed by the Comcast engineering coordinator or the Comcast Corp. inspector through the City Representative.

All other multiple duct structures shall be protected by the placement of wood planking or sheeting no less than 1/2-inch in thickness and equal in width to the width of the structure.

Damage or Displacement of Comcast Facilities

Should Contractor damage or displace any Comcast owned facility the proper authorities shall be notified immediately by calling (888) 824-8219. Repairs or replacements will be made by Comcast. However, all expenses in connection therewith shall be borne solely by Contractor.

SECTION U5. SUPPORT, WORK AROUND, AND PROTECT EXISTING MUNI TRANSIT POWER (MTP) UNDERGROUND FACILITIES - STANDARD TECHNICAL SPECIFICATIONS

General

The requirements for supporting, working around, and protecting existing Muni Transit Power (MTP) underground conduit and ducts are as follows:

Requirements for Supporting MTP Conduits and Ducts

Steel conduit spanning less than six feet shall be considered self-supporting unless otherwise directed by the City or by the MTP inspector through the City Representative.

Steel conduit spanning six feet and more shall be supported by a beam with at least one cable and turnbuckle. For spans over 12 feet, an additional cable and turnbuckle shall be installed for each additional six feet or fraction thereof of span. Cables and turnbuckles shall be located to support duct joints.

Beams, cables and turnbuckles for supporting steel conduit shall be adequately sized to limit the deflection so as not to exceed length of span in feet divided by 360.

Spacers shall be placed between multiple conduits in a manner to maintain conduit separation at points of support.

Concrete-encased ducts spanning more than four feet shall be supported by a beam with at least one cable and turnbuckle. For spans over eight feet, an additional cable and turnbuckle shall be installed for each additional four feet or fraction thereof of span for the complete width of the excavation.

Beams, cables and turnbuckles for supporting concrete-encased duct lines shall be adequately sized and spaced to insure that no deflection will occur.

Contractor shall provide adequate support and protection to prevent differential movement at the juncture of manholes and duct banks.

Duct structures consisting of dissimilar conduit materials shall be supported in the manner applicable to the most fragile portion of the structure.

Requirements for Protecting MTP Conduits and Ducts

Steel conduit shall be protected if required. This determination will be made by the City or by the MTP inspector through the City Representative.

Duct structures having top and/or bottom wood planking or encased in concrete will not require additional protection unless otherwise directed by the City or by the MTP inspector through the City Representative.

All other duct structures, such as unprotected tile and the like, shall be adequately protected by the placement of wood planking or sheeting no less than 1/2-inch in thickness and equal in width to the width of the structure. The top, bottom and sides shall be covered as necessary, depending on Contractor's operations and the conditions of the work.

Damage or Displacement of MTP Facilities

Should Contractor damage or displace any MTP-owned facility, the General Superintendent of Facilities Maintenance shall be notified immediately by calling 554-9221. Repairs or replacements will be made by MTP. However, all expenses in connection therewith shall be borne solely by Contractor.

Conduits to Pole Risers to be Considered as Services

For the purpose of payment, conduits that run directly from a manhole or pull box to a pole riser shall be considered to be a service and will be paid for according to the Cost of Utility Crossing Schedule.

END OF SECTION

SECTION 00 73 25

CULTURAL RESOURCES

1.1 SUMMARY

- A. This Section includes procedures to provide for protection, removal, or investigation of cultural findings, and to provide Contractor such compensation or relief as may be appropriate for unforeseen work or for work suspension directed by the City under the provisions of the Contract Documents.
- B. Pursuant to the National Historic Preservation Act of 1966, (16 U.S.C. 470), the City intends to provide for the preservation and protection of materials of a cultural resource nature as it may be of scientific or historical value.

1.2 DISCOVERY OF CULTURAL RESOURCES

- A. If potential cultural resources are discovered at the Site, the following procedures are to be instituted:
 - 1. Promptly report all subsurface archaeological finds to the City. Prehistoric finds shall also be reported to local Native American organizations.
 - 2. The City will issue a written order to suspend Work in accordance with Paragraph 14.02 of the General Conditions directing Contractor to cease all construction operations only at the location of such potential cultural resources find.
 - 3. The City's archaeologist will assess the significance of the find, and immediately report to the City Environmental Review Officer (ERO), who will recommend specific additional mitigation measures as necessary to minimize potential effects on cultural resources. Such mitigation measures may include additional site security; on-site investigations by an archaeologist; and documentation, preservation, and recovery of cultural materials. Following review and approval of the City archaeologist's report by the ERO, copies of the final report will be sent to the California Archaeological Site Survey Northwest Information Center and the President of the Landmarks Preservation Advisory Board.
 - 4. If human remains are encountered, all work in the area must halt and the San Francisco County Coroner must be contacted, pursuant to California Public Resources Code Sections 5097.98, and 5097.99.
- B. Cost or time impacts as a result of a suspension under this Document shall be resolved as provided in the General Conditions. Refer to Article 6 for Changes and Article 13 for Claims.
- C. For Work suspensions there shall be no compensation to Contractor for any delays up to a total of 20 working days due to the City's order to suspend Work.

END OF SECTION

SECTION 00 73 27

SPECIFIC PROJECT REQUIREMENTS

1.1 SUMMARY

- A. This Section includes special project conditions, environmental mitigation measures, and requirements for accessibility, controlling construction noise, use of potable water for construction, excavation in the public right of way, and air and water quality to comply with City regulations affecting construction Work at the Site.
- B. All requirements in this Section are incidental work, unless specified otherwise.
- C. Any and all provisions herein shall be applicable as to all work performed within the City and County of San Francisco.
 - 1. As for work performed outside the legal and geographical boundaries of the City and County of San Francisco, Contractor shall comply with any and all applicable federal, state, and/or local regulations concerning any and all matters addressed by Section 00 73 27 herein.
 - 2. Contractor shall be solely responsible and fully liable for any and all failures to comply with the aforementioned regulations, and shall unconditionally and fully indemnify the City for any damages resulting therefrom.

1.2 PROJECT CONDITIONS

- A. Contractor shall be responsible for all costs necessary to prevent its operations from violating any federal, state, or local governmental regulations and the requirements of the Contract Documents.
- B. If Contractor does not observe said regulations or the requirements specified herein, or promptly take all required remedial actions to the City's satisfaction, the City will withhold progress payments to Contractor until satisfactory compliance has been accomplished.
- C. The City will monitor Contractor's adherence to the requirements specified herein and will report on Contractor's compliance pursuant to California Assembly Bill 3180 (chapter 1232).
 - 1. Said monitoring and reporting activities may include, but are not limited to, qualitative, quantitative and video observations and data collection on the impacts of noise, air quality, traffic, street pavement damage, water quality, archaeology, and hazardous materials.
 - 2. Contractor shall cooperate with such monitoring activities, provide access to the Work Site to establish and secure monitoring stations, and make its facilities and records available to the City for performing such monitoring.
- D. Contractor shall be informed about, coordinate, schedule, and perform Work in consideration of adjacent property owners and other activities and construction work in the area.
 - 1. Contractor will be granted an equitable time extension for Unavoidable Delays caused by the City subject to the provisions of Paragraph 7.02 of the General Conditions.

1.3 CONSTRUCTION NOISE REQUIREMENTS

- A. Contractor shall comply with the City's Noise Control Ordinance (article 29 of the San Francisco Police Code, Ordinance No. 274-72).
 - 1. Contractor shall be responsible for fines or violations pertaining to these ordinances, at no cost to the City.

2. Provide advance notice to residents and affected businesses in the area of the Site of times, dates and location of construction activities.
 3. Coordinate and schedule Contractor's construction operations to conform to all City requirements and restrictions.
 4. Contractor shall implement mitigation controls to ensure compliance with the construction noise levels allowed. The maximum noise level from any powered construction equipment shall not be greater than 80dBA at 100 feet. This translates to 86dBA at 50 feet (dual units not applicable, as these are specific field and instrument measurements).
- B. Use appropriate construction methods and equipment and furnish and install acoustical barriers so that noise emanating from the construction will not exceed noise levels pursuant to the City's Noise Control Ordinance.
1. Muffle and shield intakes and exhausts, shroud or shield impact tools, as feasible,
 2. Use electric-powered rather than diesel-powered construction equipment,
 3. Enclose equipment such as large compressors, generators, and large de-watering pumps at a minimum in one-inch-thickness plywood sheds.
 4. Equip pavement breakers and jackhammers with acoustically attenuating shield or shrouds.
 5. Select haul routes that minimize intrusion to residential areas.
 6. Select construction processes and techniques that create the lowest noise levels.
- C. Prepare a written Noise Control Program to mitigate the construction noise impacts and to comply with the noise criteria specified herein, including the method of construction, the equipment to be used, and acoustical treatments as necessary. Implement the program and keep a copy at the project site to be submitted to the City Representative upon request.
- D. The City, at its own discretion, will monitor construction noise as part of the environmental monitoring process. When noise levels exceed the noise limits pursuant to article 29 of the San Francisco Police Code, Contractor shall stop work for alternate methods and equipment or place restrictions on construction operations to further limit the noise as directed by the City.

1.4 NIGHT AND WEEKEND NOISE REQUIREMENTS

- A. Except as specifically set forth in these Specifications, Contractor shall not perform work between the hours of 8:00 p.m. and 7:00 a.m. of the following day if the noise level created thereby is in excess of the ambient noise level by 5 dBA at the nearest property line, unless a noise permit therefor has been obtained pursuant to the Police Code section 2908.
1. Apply for City noise permits through the City Representative at least 3 working days in advance of night (i.e., between 8:00 p.m. and 7:00 a.m.), weekend, and holiday work. The requirements of the Contract Documents, including safety requirements, shall apply for all night, weekend, and holiday work performed.
 2. If Contractor is directed in the Contract Documents or by special written notice from the City Representative to perform any part of the work between the hours of 8 p.m. and 7 a.m. or on weekends or holidays, the Contractor must obtain and comply with a City noise permit prior to starting any work. The noise permit shall be obtained from and approved by Bureau of Street Use and Mapping, 1155 Market Street, 3rd Floor, San Francisco, CA 94103.
 3. Refer to Section 00 72 00 for definition of Regular Working Hours.

1.5 REQUIREMENTS FOR PLACEMENT OF BARRICADES

- A. Comply with the requirements of San Francisco Department of Public Works Guidelines for the Placement of Barricades at Construction Sites (DPW Order No. 167,840). Refer to this

website for a copy of DPW Order No. 167,840:

<http://www.sfpublishworks.org/services/project-manual-and-reference-documents>

- B. Provide and maintain at least one accessible path-of-travel for pedestrians around the construction site consistent with applicable federal, state, and local laws, including the Americans with Disabilities Act and the California Building Code (Title 24, Part 2, Accessibility Standards).
- C. Contractor will be assessed liquidated damages in the amount of one thousand dollars (\$1,000) per calendar day for each day Contractor fails to comply with the requirements for accessibility and placement of barricades.

1.6 REQUIREMENTS FOR USING WATER FOR CONSTRUCTION

- A. Contractor shall comply with Article 21 of the San Francisco Public Works Code, which restricts the use of potable water for soil compaction and dust control activities to the extent not directly in conflict with any applicable federal, state, or local law.
- B. Contractor shall apply to the San Francisco Public Utilities Commission (SFPUC) Wastewater Enterprise (WWE) for a permit to use recycled water for soil compaction and dust control activities.
 - 1. Contractor shall submit a completed permit application as directed on the SFPUC Recycled Water Fill Station website: <http://sfwater.org/index.aspx?page=953>. If SFPUC WWE approves the application, Contractor will be issued a permit and provided instruction for use of the Recycled Water Fill Station.
 - 2. Contractor will be responsible for the handling and transportation of recycled water in accordance with the approved permit. Contractor will also be responsible for any permit and discharge fees.
 - 3. If the SFPUC denies the permit application because the use of recycled water falls within one or more of the restrictions of Title 22, Division 4, Chapter 3 of the California Code of Regulations, and the applicable General Order under which the SFPUC is bound at the time the application is processed, the permit application will be redirected for approval of potable water for these activities as directed in Paragraph C below.
- C. Potable Water:
 - 1. Contractors will be directed to the SFPUC, Customer Service Bureau (CSB), at 525 Golden Gate Avenue, San Francisco, to complete a potable hydrant meter application. Once the application has been completed and approved, CSB will provide Contractor with a receipt.
 - 2. Contractor shall pay the costs of permit fees, connection fees, meters, and all water usage furnished by the SFPUC under the established water service account. The City will not reimburse these costs.
 - 3. Contractor shall bring the receipt as proof of payment to the City Distribution Division (CDD) at 1990 Newcomb Street, San Francisco, to collect the hydrant meter. Contractor shall bring the meter to CDD monthly for readings and payments.

1.7 AIR QUALITY REQUIREMENTS

- A. The Contractor shall provide dust control measures during construction in accordance with the requirements of the Contract Documents. Prior to starting Work at the site, the Contractor shall prepare a Dust Control Program to minimize potential public health impacts associated with visible dust emissions and air quality pollutants. Said dust control program shall include measures to minimize impacts to sensitive receptors associated with exposure to respirable nuisance dust (PM10) and the following requirements to achieve a goal of "No Visible Emissions". The Contractor shall implement the dust control program for the project duration and maintain a copy at the project site to be submitted to the City Representative upon request.
- B. Comply with the following requirements in accordance with San Francisco Department of Public Works Dust Control Order (DPW Order No. 171,378). Failure to comply with DPW Order No. 171,378 shall subject Contractor to fines of \$1,000 per day for each day a violation is not corrected.
1. Minimize dust generation to reduce health risks to workers and the public.
 2. Mist the immediate demolition area with a water spray to prevent airborne dust particles.
 3. Perform continuous water spraying during dust generating activities. Mist or spray in such a way as to prevent puddling or generation of runoff.
 4. Use dust enclosures, curtains, and dust collectors as necessary to control dust. The City may request dust scrubbers installation during demolition to minimize dust migration in the project site's occupied areas.
 5. Minimize the amount of demolition debris stored at the Site. Remove demolition debris, with the exception of hazardous materials or suspected hazardous materials, from the Site no later than the end of each workday.
 6. If hazardous materials or suspected hazardous materials are stored on Site, store such materials in accordance with all applicable Cal/EPA regulations, including providing storage in proper containers and protection from exposure to the elements. Remove such materials from the Site as soon as possible for disposal or recycling in accordance with applicable laws and regulations.
 7. Keep the Site and adjacent areas clean and perform wet sweeping at the end of each shift.
 8. Load haul trucks, hauling debris, soils, sand or other such materials so that the material does not extend above the walls or back of the truck bed. Wet before covering and tightly cover the surface of each load before the haul truck leaves the loading area.
 9. Clean up spillage on City streets, whether directly or indirectly caused by Contractor's operations.
 10. Stockpiles soil, sand and other materials; shall be covered and protected at the end of the shift
- C. Comply with the requirements of the Bay Area Air Quality Management District (BAAQMD) regulation 6 (for particulate matter and visible emissions), regulation 7 "Odorous Substances," regulation 11 "Hazardous Pollutants," and the California Health and Safety Code division 26 "Air Resource", chapter 3 "Emission Limitations", section 41700 "Prohibited Conduct," and related regulations. Notify the BAAQMD 10 working days prior to commencing demolition or hazardous materials abatement work.
1. Such notification shall include the names and addresses of operations and persons responsible; description and location of the structure to be demolished or altered including size, age and prior use, and the approximate amount of friable asbestos; scheduled starting and completion dates of demolition or abatement; nature of planned work and methods to be employed; procedures to be employed to meet BAAQMD requirements; and the name and location of the disposal site.

2. The BBAQMD randomly inspects removal operations and will respond to any complaints received. Cooperate and facilitate all BAAQMD authorized inspections.
- D. Implement the specific air pollution controls to reduce exhaust emissions of particulate matter and other pollutants from construction and related equipment, to a less significant level, by:
1. Preventing the accumulation of toxic concentrations of chemicals.
 2. Preventing harmful or obnoxious dispersal of pollutants into the atmosphere.
 3. Limiting vehicle speed limit on unpaved roads to 15 miles per hour (mph).
 4. Prohibiting idling motors when equipment is not in use or when truck are waiting in queues. The idling time of all construction equipment used at the site shall not exceed five (5) minutes.
 5. Limit the hours of operation of heavy-duty equipment and/or amount of equipment in use to what is needed.
 6. All equipment shall be properly tuned and maintained in accordance with the manufacturer's specifications.
 7. When feasible, alternative fuel or electrical construction equipment shall be used at the project site.
 8. Load haul trucks, excavated materials, hauling debris, soils, sand or other such materials so that the material does not extend above the walls or back of the truck bed. Wet before covering and tightly cover the surface of each load before the haul truck leaves the loading area.
 9. Clean up spillage on City streets promptly, whether directly or indirectly caused by Contractor's operations.
 10. Any stockpiles of excavated materials, backfill, import materials; sand, gravel, road base and soil shall be stored in staging areas approved by the City and shall be completely covered with a 10 ml (0.01 inch) polyethylene plastic or equivalent tarp and braced down and secured daily at the end of the shift. The Contractor shall maintain the covers throughout their use.
 11. During all excavation and dirt moving activities, wet sweep/vacuum the streets, sidewalks, paths and intersections where work is in progress at least three (3) times per shift per day and once at the end of the shift as directed by the City.
 12. For wet sweeping use a vacuum sweeper vehicle with sufficient suction to ensure that the vehicle does not blow dust towards neighboring businesses or residences. The city will evaluate the effectiveness of the Contractor's vacuum sweeper and, if necessary, will require the Contractor to provide a more powerful and effective vehicle.
 13. Vehicles entering or exiting construction areas shall travel at a speed of no more than 15 mph to minimize dust emissions and follow the approved traffic routes.
 14. Wheel washers shall be installed and used to clean truck and equipment tires leaving the construction site. If wheel washers cannot be installed, tires and spoils trucks shall be washed off before they re-enter City streets to minimize deposition of dust-causing materials.
 15. Wet down areas around soil improvement operations, visibly dry disturbed soil surface areas and visibly dry disturbed unpaved driveways at least three (3) times per shift per day or more as needed as directed by the City.

1.8 MAINTENANCE OF THE WORK AREA AND DEBRIS CONTROL

- A. Maintain work areas and adjacent public right-of-ways in orderly and safe condition. Sweep all pedestrian walkways and dispose of debris around the site perimeter on a daily basis, and as often as determined by the City.
- B. Control the accumulation of waste materials and debris; collect waste from construction areas and the project site, daily. Remove accumulations of debris surplus materials and trash from the site at the end of each working day or at frequent intervals or as directed by the City. Burying or burning of trash and debris on the site is not permitted

- C. Perform the work in a manner to minimize the generation of dust and dirt, to prevent dust and dirt from interfering with the progress of the Work, and to keep dust and dirt from accumulating in work areas and adjacent areas.
- D. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose these types of materials in a lawful manner. Comply with requirements of NFPA 241 for removal of combustible waste material and debris.
- E. For storage areas, ensure that materials to be used for construction are stored in designated structures or areas by the appropriate trades. Maintain such areas or structures in a clean condition for the life of the Contract.
 - 1. Provide and maintain proper storage with secondary containment for lubrication oil, hydraulic fluids, waste oils, fuels, solvents and other hazardous or toxic materials and wastes.
 - 2. Immediately remove materials deposited outside of approved storage areas.

1.9 PARKING RESTRICTIONS

- A. Parking: Employees of the Contractor, sub-contractors, and suppliers shall not park their vehicles within the active construction area when they are currently working and where public access is prohibited. The Contractor shall provide parking for their employees at a site, which will not impact local public parking and transport employees between the parking area and the work.
- B. Vehicle Towing: When a vehicle is removed from a street at the request of the Contractor and a post-storage hearing determines that as a result of the Contractor's improper posting of required signs, reasonable grounds did not exist for removal, the responsible Contractor shall reimburse the City for cost incurred in storage and towing.

1.10 EXCAVATION REQUIREMENTS

- A. Comply with the regulations of California State Standard, CCR Title 8, Chapter 4, Section 1541, regarding coordination and safety of excavations near subsurface installations.
- B. Contractor shall obtain, review and comply with article 2.4, "Excavation in the Public Right of Way," of the San Francisco Public Works Code, as currently amended, and applicable regulations of Public Works for excavating and restoring streets in the public right of way. Except for excavations specifically exempted by said article or by written waiver granted by Public Works, no excavation shall be performed in the public right of way under the jurisdiction of Public Works without a valid excavation permit issued by the San Francisco Public Works, Bureau of Street-use and Mapping, telephone (415) 554-6201.
 - 1. Refer to Paragraph 3.06 of the General Conditions (Section 00 72 00) as amended in the Supplementary Conditions (Section 00 73 00) for permit procurement responsibilities.
 - 2. Keep copies of the excavation permit available at the Site for inspection by the City upon request.
 - 3. Excavation permits are not required for excavations completed within 24 hours to install parking meters, street lights, street trees, traffic signs, traffic signals, utility poles or to repair utility boxes in sidewalks; or excavations performed for the sole purpose of repairing sidewalks.
 - 4. For emergency excavations, necessary for protection of life or property, immediately notify Public Works, Bureau of Street-use and Mapping, and apply for an emergency permit within 4 hours after the department offices first open.
 - 5. Refer to the latest revision of the manual "Regulations for Excavating and Restoring Streets in San Francisco" for complete information about excavation code

- requirements. Copies of the manual may be purchased at Bureau of Street-use and Mapping, 1155 Market Street, 3rd Floor, San Francisco, California 94103, telephone (415) 554-5810.
6. Coordinate with the City and other contractors working at the Site to minimize impacts of the excavation work on the community and local businesses.
- C. Contractor shall provide proper public notices prior to commencing excavations in accordance with article 2.4 of the San Francisco Public Works Code. Such notices shall include the name, address, and 24-hour telephone number of Contractor's representative who will provide information to, and receive complaints from, the public concerning the excavation.
1. For excavations completed and restored in 2 to 14 days, post and maintain notices every 100 feet along the block of excavation work at least 72 hours prior to starting excavation.
 2. For excavations completed and restored in 15 days or longer, provide written notice delivered by U.S. mail to each property owner affected by the excavation at least 30 days but not more than 60 calendar days prior to starting excavation. Additionally, post and maintain notices every 100 feet and deliver written notices to each dwelling unit along the block of excavation work at least 10 days but not more than 15 days prior to starting excavation.
 3. For emergency excavation post and maintain notices every 100 feet along the block of excavation work during the excavation work.
- D. No excavation shall be performed outside the boundaries, times, descriptions or methods set forth on the approved permit; no excavation shall be longer than 1,200 feet in length at any time without prior written approval of the City.
1. Secure permit extension prior to expiration date in the event of delays in excavation work.
 2. Should such delays be caused by the City Contractor will be granted an extension of Contract Time or adjustment of Contract Sum as provided in Paragraph 7.02 of the General Conditions.
- E. Observe regulations concerning excavation sites including the following:
1. Cover open excavations with steel plates ramped to street grade or provide other means of protection acceptable to Public Works.
 2. Clean the Site of loose dirt and debris and remove excavated material from the Site at the end of each work day; comply with DPW Order No. 171,378 (refer to Paragraph 1.7B above).
 3. Materials and equipment to be used for excavation work within 7 calendar days may be stored at the Site, provided that fill material, sand, aggregate, and asphalt-coated material shall be stored only in covered, locked containers and provided that such storage complies with the City's traffic rules and regulations.
 4. Conform to the requirements of the Specifications for handling, removal and disposal of hazardous materials.
- F. Restore excavated street or sidewalk pavement in accordance with the requirements of the Specifications or the applicable requirements of the DPW Standard Specifications and Standard Plans (refer to Division 1 for reference standards) to the extent not in conflict with the Specifications. Comply with the following additional San Francisco Public Works Code requirements:
1. Restore trenches and pavement to a constant width equal to the widest section of the excavation, but not exceeding 13 ft.
 2. Backfill excavation within 72 hours of completing related construction.
 3. Replace pavement base within 72 hours of backfilling excavation.
 4. Complete finished pavement within 72 hours of replacing pavement base.

5. Correct deficiencies in the restoration respecting timing or manner specified for the above items at no additional cost to the City within 24 hours of notification by the City.
6. Should Contractor fail to timely restore, correct or repair deficiencies, Public Works will complete or cause to be completed such restoration, correction or repair deficiencies, and the completion costs will be deducted from monies due Contractor.

1.11 REQUIREMENTS FOR PROTECTION OF THE SEWER SYSTEM

- A. Wastewater which is transferred from the Site during this Project shall meet the pre-treatment standards of the San Francisco Municipal Code, section 123, Industrial Waste Ordinance #19-92 and DPW Order No. 158,170 prior to discharge into the City's sewage system.
- B. Should wastewater become contaminated due to Contractor's operations all costs of satisfactory remediation and disposal shall be at no cost to the City. Such costs shall include, but not be limited to, all redesign, reconstruction and pre-treatment costs necessary to satisfy the requirements of the Industrial Waste Ordinance #19-92, and DPW Order No. 158,170.
- C. Should the existing wastewater be contaminated, or should it be uncontaminated but subsequently become contaminated due to conditions other than Contractor's operations, a Change Order will be issued as provided in Article 6 of the General Conditions for additional costs or time extension will be granted as provided in Article 7 of the General Conditions to pretreat the contaminated water prior to routing the flow into the sewer system or other approved disposal at the direction of the City.
- D. Contractor shall be responsible for obtaining and paying for all water discharge permits and for paying all sewer service charges, penalties and other incidental fees and expenses resulting from discharging wastewater into the City's sewerage system by Contractor's operations.
 1. The application for such wastewater discharge permit shall be sent to:

San Francisco Public Utilities Commission
Wastewater Enterprise, Collection System Division
3801 3rd Street, Suite 600
San Francisco, CA 94124
Telephone (415) 695-7321.

END OF SECTION

SECTION 00 73 73

STATUTORY REQUIREMENTS

1.1 GENERAL

- A. All requirements in this Section are incidental work, unless specified otherwise.
- B. Contractor shall be solely responsible and fully liable for any and all failures to comply with the requirements specified herein, and shall unconditionally and fully indemnify the City for any damages resulting therefrom. If Contractor fails to comply with the requirements specified herein, or fails to promptly take all required remedial actions to the City's satisfaction, the City may withhold progress payments to Contractor until satisfactory compliance has been accomplished and/or may assess statutory liquidated damages or penalties, as applicable.
- C. The full text of the City Requirements provided below are incorporated by reference in the Contract Documents, and are available at http://www.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:sanfrancisco_ca

1.2 CONFLICT OF INTEREST

- A. By executing the Agreement (Section 00 52 00), Contractor certifies that it does not know of any fact which constitutes a violation of Section 15.103 of the City's Charter; Article III, Chapter 2 of City's Campaign and Governmental Conduct Code; or Section 87100 *et seq.* or Section 1090 *et seq.* of the California Government Code of the State of California, and further agrees promptly to notify the City if it becomes aware of any such fact during the term of this Contract. All requirements in this Section are incidental work, unless specified otherwise.

1.3 NONDISCRIMINATION REQUIREMENTS

- A. **Incorporation of Administrative Code Chapters 12B and 12C.** The provisions of Chapters 12B and 12C of the San Francisco Administrative Code are incorporated herein by this reference. Contractor shall comply with any and all of the provisions that apply to this Agreement under such Chapters, and be bound by the remedies provided in such Chapters. Contractor shall incorporate by reference in all subcontracts the provisions of §§12B.2(a), 12B.2(c)-(k), and 12C.3 of the San Francisco Administrative Code and shall require all subcontractors to comply with such provisions.
- B. **Nondiscrimination in the Provision of Employee Benefits.** Contractor does not as of the date of this Agreement, and will not during the term of this Agreement, in any of its operations in San Francisco, on real property owned by San Francisco, or where Work is being performed for the City elsewhere in the United States, discriminate in the provision of employee benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees, subject to the conditions set forth in San Francisco Administrative Code §12B.2.
- C. **Title VI Requirements.** During the performance of this Contract, the Contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:
 - (1) **Compliance with Regulations:** The Contractor shall comply with the Regulation relative to nondiscrimination in Federally-assisted programs of the Department of

Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, and the Federal Highway Administration (hereinafter "FHWA") Title 23, Code of Federal Regulations, Part 200 as they may be amended from time to time, (hereinafter referred to as the "Regulations"), which are herein incorporated by reference and made a part of this Contract.

- (2) **Nondiscrimination:** The Contractor, with regard to the work performed by it during the Contract, shall not discriminate on the grounds of race, color, or national origin, sex, age, and disability/handicap and low income in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR, section 21.5 of the Regulations, including employment practices when the Contract covers a program set forth in Appendix B of the Regulations.
- (3) **Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this Contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin, sex, age, and disability/handicap and low income.
- (4) **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the City and County of San Francisco ("City") or the FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the City, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this Contract, the City shall impose such Contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
 - (a) withholding of payments to the Contractor under the Contract until the Contractor complies, and/or
 - (b) cancellation, termination or suspension of the Contract, in whole or in part.
- (6) **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the City or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance, provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request the City to enter into such litigation to protect the interests of the City, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

1.4 REQUIRING MINIMUM COMPENSATION FOR COVERED EMPLOYEES

- A. Contractor shall pay covered employees no less than the minimum compensation required by San Francisco's Minimum Compensation Ordinance (MCO), and shall otherwise comply

with the MCO as set forth in San Francisco Administrative Code Chapter 12P (Chapter 12P). The provisions of Chapter 12P, including but not limited to the penalties for noncompliance provided therein, are incorporated herein by this reference, and made part of this Agreement as though fully set forth herein:

1.5 REQUIRING HEALTH BENEFITS FOR COVERED EMPLOYEES

- A. Contractor shall choose and perform one of the Health Care Accountability options set forth in Section 12Q.3 of the Health Care Accountability Ordinance (HCAO), and shall otherwise comply with the HCAO as set forth in San Francisco Administrative Code Chapter 12Q. The provisions of Chapter 12Q, including but not limited to the penalties for noncompliance provided therein, are incorporated herein by this reference, and made part of this Agreement as though fully set forth herein.

1.6 MACBRIDE PRINCIPLES - NORTHERN IRELAND

- A. The provisions of San Francisco Administrative Code §12F are incorporated herein by this reference and made part of this Agreement as though fully set forth. By signing this Agreement, Contractor confirms that Contractor has read and understood that the City urges companies doing business in Northern Ireland to resolve employment inequities and to abide by the MacBride Principles, and urges San Francisco companies to do business with corporations that abide by the MacBride.

1.7 PROHIBITION ON USE OF PUBLIC FUNDS FOR POLITICAL ACTIVITY

- A. In performing the Work, Contractor shall comply with San Francisco Administrative Code Chapter 12.G, which prohibits funds appropriated by the City for this Agreement from being expended to participate in, support, or attempt to influence any political campaign for a candidate or for a ballot measure. The provisions of Chapter 12.G, including but not limited to the penalties for noncompliance provided therein are incorporated by reference and made a part of this Agreement as though fully set forth herein.

1.8 LIMITATIONS ON CONTRIBUTIONS

- A. By executing the Agreement (Section 00 52 00), Contractor acknowledges that it is familiar with section 1.126 of the City's Campaign and Governmental Conduct Code, which prohibits any person who contracts with the City for the rendition of personal services, for the furnishing of any material, supplies or equipment, for the sale or lease of any land or building, or for a grant, loan or loan guarantee, from making any campaign contribution to (1) an individual holding a City elective office if the contract must be approved by the individual, a board on which that individual serves, or the board of a state agency on which an appointee of that individual serves, (2) a candidate for the office held by such individual, or (3) a committee controlled by such individual, at any time from the commencement of negotiations for the contract until the later of either the termination of negotiations for such contract or six months after the date the contract is approved. The prohibition on contributions applies to each prospective party to the contract; each member of Contractor's board of directors; Contractor's chairperson, chief executive officer, chief financial officer and chief operating officer; any person with an ownership interest of more than 20 percent in Contractor; any subcontractor listed in the bid or contract; and any committee that is sponsored or controlled by Contractor. Contractor must inform each such person of the limitation on contributions imposed by Section 1.126 and provide the names of the persons required to be informed to City.

1.9 NONDISCLOSURE OF PRIVATE, PROPRIETARY OR CONFIDENTIAL INFORMATION

- A. If the Contract Documents require City to disclose "Private Information" to Contractor within the meaning of San Francisco Administrative Code Chapter 12M, Contractor shall use such information only in accordance with the restrictions stated in this Agreement and as necessary in performing the Services. The provisions of Chapter 12M, including but not limited to the penalties for noncompliance provided therein, are incorporated herein by this reference, and made part of this Agreement as though fully set forth herein.
- B. In the performance of Work, Contractor may have access to City's proprietary or confidential information, the disclosure of which to third parties may damage City. If City discloses proprietary or confidential information to Contractor, such information must be held by Contractor in confidence and used only in performing the Agreement. Contractor shall exercise the same standard of care to protect such information as a reasonably prudent contractor would use to protect its own proprietary or confidential information.

1.10 UNFAIR BUSINESS PRACTICES CLAIMS; ASSIGNMENT TO AWARDING BODY

- A. Under Public Contract Code section 7103.5, Contractor and its Subcontractors shall conform to the following requirements:
 - 1. In entering into the Agreement or subcontract to supply goods, services, or materials under this Agreement, Contractor or its Subcontractors offer and agree to assign the City all rights, title, and interest in and to all causes of action they may have under section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (chapter 2, commencing with section 16700, of part 2 of division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the Agreement or subcontract.
 - 2. The assignment shall be made and become effective at the time the City tenders Final Payment to Contractor, without further acknowledgement by the Parties.
 - 3. Contractor shall include the provisions of this Article in its subcontracts and purchase agreements to supply goods, services, or materials pursuant to the Agreement.

1.11 TROPICAL HARDWOOD AND VIRGIN REDWOOD PRODUCTS BAN

- A. Except as expressly permitted by the application of Sections 802(b) and 803(b) of the San Francisco Environment Code, Contractor shall not provide any items to the City in performance of this contract which are tropical hardwoods, tropical hardwood wood products, virgin redwood or virgin redwood wood products. The City urges Contractor not to import, purchase, obtain, or use for any purpose, any tropical hardwood, tropical hardwood product, virgin redwood or virgin redwood wood product.

1.12 PRESERVATIVE-TREATED WOOD CONTAINING ARSENIC

- A. Contractor may not purchase preservative-treated wood products containing arsenic in the performance of this Agreement unless an exemption from the requirements of Chapter 13 of the San Francisco Environment Code is obtained from the Department of the Environment under Section 1304 of the Code. The term "preservative-treated wood containing arsenic" shall mean wood treated with a preservative that contains arsenic, elemental arsenic, or an arsenic copper combination, including, but not limited to, chromated copper arsenate preservative, ammoniacal copper zinc arsenate preservative, or ammoniacal copper arsenate preservative. Contractor may purchase preservative-treated wood products on the list of environmentally preferable alternatives prepared and adopted by the Department of the Environment. This provision does not preclude Contractor from purchasing preservative-treated wood containing arsenic for saltwater immersion. The term "saltwater immersion" shall mean a pressure-treated wood that is used for construction purposes or facilities that are partially or totally immersed in saltwater.

1.13 FOOD SERVICE WASTE REDUCTION REQUIREMENTS

- A. Contractor shall comply with the Food Service Waste Reduction Ordinance, as set forth in San Francisco Environment Code Chapter 16, including but not limited to the remedies for noncompliance provided therein. The provisions of Chapter 16 are incorporated herein by reference and made a part of this Agreement as though fully set forth herein.

1.14 NON-DISCRIMINATION IN CONTRACTING REQUIREMENTS

- A. Pursuant to chapter 14B of the San Francisco Administrative Code the following requirements are made part of the Contract:
 - 1. Chapters 12B and 14B of the San Francisco Administrative Code, their implementing Rules and Regulations, and CMD Attachment 1 – Requirements for Construction Contracts, are incorporated by reference herein as though fully set forth. These documents are available to be viewed and downloaded on the Contract Monitoring Division's website: <http://sfgov.org/cmd/important-forms> Alternatively, contact the CMD Contract Compliance Officer assigned to this Contract for assistance in obtaining any of these documents.
 - 2. The willful failure of Contractor or its subcontractors to comply with any of the requirements of chapter 14B shall be deemed a material breach of contract.
 - 3. In the event that the Director of Contract Monitoring Division finds that Contractor or any of its subcontractors willfully fails to comply with any of the provisions of Chapter 14B, rules and regulations implementing Chapter 14B, Contractor or its subcontractor shall be liable for liquidated damages as specified in CMD Attachment 1, article 1.05 "Noncompliance and Sanctions," which shall be payable to the City upon demand and may be set off against moneys due to Contractor or its subcontractor for any contract with the City. Contractor agrees that progress payments shall be withheld, and Contractor's liability for liquidated damages assessed will be subject to the collection procedures specified in Section 14B.7(H)(2) of the Administrative Code and CMD Attachment 1, article 1.05 "Noncompliance and Sanctions."
 - 4. Contractor shall maintain, and shall require its subcontractors to maintain, records including such information requested by CMD necessary for monitoring their compliance with Chapter 14B. Such records shall be maintained for 3 years after the date of Final Completion.
 - 5. Contractor shall pay its subcontractors within 3 working days after receiving payment from the City unless Contractor notifies the Director of the CMD in writing prior to receiving payment from the City that there is a bona fide dispute between Contractor and the subcontractor. The Director of the CMD may, upon making a determination that a bona fide dispute exists between Contractor and the subcontractor, waive this 3-day payment requirement.
 - 6. Contractor shall submit CMD Contract Performance Forms (CMD Forms 7, 8, 9, and 10) as set forth in CMD Attachment 1, article 1.03.
 - 7. Contractor shall comply with the Non-Discrimination provisions as set forth in Part IV of CMD Attachment 1.

1.15 SUNSHINE ORDINANCE

- A. Contractor acknowledges that the Contract Documents and all records related to their formation, Contractor's performance of Work, and City's payment are subject to the California Public Records Act, (California Government Code §6250 et. seq.), and the San Francisco Sunshine Ordinance, (San Francisco Administrative Code Chapter 67). Such records are subject to public inspection and copying unless exempt from disclosure under federal, state or local law.

1.16 SUBMITTING FALSE CLAIMS; REMEDIES

- A. Pursuant to Article V of Chapter 6 of the San Francisco Administrative Code, any contractor, subcontractor, supplier, consultant or subconsultant who submits a false claim may be

subject to monetary penalties, investigation and prosecution and may be declared an irresponsible contractor or an unqualified consultant and debarred as set forth in that Article. A contractor, subcontractor, supplier, consultant or sub consultant will be deemed to have submitted a false claim to the City if the contractor, subcontractor, supplier, consultant or subconsultant: (a) knowingly presents or causes to be presented to an officer or employee of the City a false claim or request for payment or approval; (b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by the City; (c) conspires to defraud the City by getting a false claim allowed or paid by the City; (d) knowingly makes, uses, or causes to be made or used a false record or statement to conceal, avoid, or decrease an obligation to pay or transmit money or property to the City; or (e) is a beneficiary of an inadvertent submission of a false claim to the City, subsequently discovers the falsity of the claim, and fails to disclose the false claim to the City within a reasonable time after discovery of the false claim.

1.17 CLEAN CONSTRUCTION

- A. Contractor agrees to comply fully with and be bound by the Clean Construction requirements set forth in Section 6.25 of the San Francisco Administrative Code and Chapter 25 of the Environment Code. The provisions of Section 6.25 and Chapter 25 are incorporated herein by reference and made a part of this Agreement as though fully set forth.
- B. Contractor may seek waivers from the Clean Construction requirements as set forth in Chapter 25 of the Environment Code.
- C. By entering into the Agreement, Contractor and City agree that if Contractor uses off-road equipment and/or off-road engines in violation of the Clean Construction requirements set forth in Section 6.25 of the Administrative Code and Chapter 25 of the Environment Code, the City will suffer actual damages that will be impractical or extremely difficult to determine. Accordingly, Contractor and the City agree that Contractor shall pay the City the amount of \$100 per day per each piece of off-road equipment and each off-road engine used to complete Work on the Project in violation of the Clean Construction requirements. Such amount shall not be considered a penalty, but rather agreed monetary damages sustained by City because of Contractor's failure to comply with the Clean Construction requirements.

1.18 CONSIDERATION OF CRIMINAL HISTORY IN HIRING AND EMPLOYMENT DECISIONS

- A. Contractor agrees to comply fully with and be bound by all of the provisions of Chapter 12T "City Contractor/Subcontractor Consideration of Criminal History in Hiring and Employment Decisions," of the San Francisco Administrative Code (Chapter 12T), including the remedies provided, and implementing regulations, as may be amended from time to time. The provisions of Chapter 12T are incorporated by reference and made a part of this Agreement as though fully set forth herein. The text of the Chapter 12T is available on the web at www.sfgov.org/olse/fco. A partial listing of some of Contractor's obligations under Chapter 12T is set forth in this Section. Contractor is required to comply with all of the applicable provisions of 12T, irrespective of the listing of obligations in this Paragraph. Capitalized terms used in this Paragraph and not defined in this Agreement shall have the meanings assigned to such terms in Chapter 12T.
- B. The requirements of Chapter 12T shall only apply to a Contractor's or Subcontractor's operations to the extent those operations are in furtherance of the performance of this Agreement, and shall apply only to applicants and employees who would be or are performing work in furtherance of this Agreement.
- C. Contractor shall incorporate by reference in all subcontracts the provisions of Chapter 12T, and shall require all subcontractors to comply with such provisions. Contractor's failure to

comply with the obligations in this subsection shall constitute a material breach of this Agreement.

- D. Contractor or Subcontractor shall not inquire about, require disclosure of, or if such information is received base an Adverse Action on an applicant's or potential applicant for employment, or employee's: (1) Arrest not leading to a Conviction, unless the Arrest is undergoing an active pending criminal investigation or trial that has not yet been resolved; (2) participation in or completion of a diversion or a deferral of judgment program; (3) a Conviction that has been judicially dismissed, expunged, voided, invalidated, or otherwise rendered inoperative; (4) a Conviction or any other adjudication in the juvenile justice system; (5) a Conviction that is more than seven years old, from the date of sentencing; or (6) information pertaining to an offense other than a felony or misdemeanor, such as an infraction.
- E. Contractor or Subcontractor shall not inquire about or require applicants, potential applicants for employment, or employees to disclose on any employment application the facts or details of any conviction history, unresolved arrest, or any matter identified in subparagraph D, above. Contractor or Subcontractor shall not require such disclosure or make such inquiry until either after the first live interview with the person, or after a conditional offer of employment.
- F. Contractor or Subcontractor shall state in all solicitations or advertisements for employees that are reasonably likely to reach persons who are reasonably likely to seek employment to be performed under this Agreement, that the Contractor or Subcontractor will consider for employment qualified applicants with criminal histories in a manner consistent with the requirements of Chapter 12T.
- G. Contractor and Subcontractors shall post the notice prepared by the Office of Labor Standards Enforcement (OLSE), available on OLSE's website, in a conspicuous place at every workplace, job site, or other location under the Contractor or Subcontractor's control at which work is being done or will be done in furtherance of the performance of this Agreement. The notice shall be posted in English, Spanish, Chinese, and any language spoken by at least 5% of the employees at the workplace, job site, or other location at which it is posted.
- H. Contractor understands and agrees that if it fails to comply with the requirements of Chapter 12T, the City shall have the right to pursue any rights or remedies available under Chapter 12T, including but not limited to, a penalty of \$50 for a second violation and \$100 for a subsequent violation for each employee, applicant or other person as to whom a violation occurred or continued, termination or suspension in whole or in part of this Agreement.

END OF SECTION

SECTION 01 11 00
SUMMARY OF WORK

PART 1 - GENERAL

1.1 SUMMARY

- A. The work to be done under this contract consists of, sewer work, water work, electrical work, paving work, new exterior decking and trellis construction, landscape amenities and deployment of modular trailers> along Bryant Street, at 5th Street San Francisco, California, all as shown on the drawings and as specified in these Specifications.

1.2 PROJECT DESCRIPTION

- A. Demolition Work includes, but not limited to:
1. Site demolition as required for below-grade and above grade utilities .
- B. Building Improvement Work includes, but not limited to:
1. Construction of a new facility to function as a Navigation Center for our homeless population. The purpose of this project is to provide an 84 Bed facility that contains Dormitory, Dining/Pantry and Restrooms/Showers through the use of pre-fabricated modular trailers. The contractor will be provided with full contract documents for all exterior site hardscape, utilities and landscape amenities; the modular trailers will be provided and installed by a separate vendor. Contractor is responsible for all utilities, exterior framing and decking, ramps and stairs and landscape amenities.
- C. Site Improvement Work includes, but not limited to:
1. Construction of all underground utilities, continuous exterior deck connecting all trailer buildings, above ground landscape amenities and fixed site furnishings.
- D. Paving Work includes, but not limited to:
1. Traffic routing work;
 2. Excavating, removing and disposing of existing pavement, concrete base, parking strip, curb and sidewalk;
 3. Supporting and working around existing utilities;
 4. Handling all drainage or ground water;
 5. Removing surplus material;
 6. Cleaning project site by others;
 7. Furnishing and placing of backfill material as required but excavation work limited to under 50 cubic yards
 8. Installation of 6 inches of gravel over entire site under trailers and built up deck;
 9. Adjusting City-owned manhole frame and cover to grade;
 10. Adjusting City-owned catch basin frame and grating to grade;
 11. Adjusting City-owned castings to grade;
 12. Performing all related and incidental work, all where and as shown on the Drawings and in accordance with the Project Manual.
- E. Sewer Work includes, but not limited to:
1. Performing traffic routing and trench support work related to sewer work;
 2. Trench support work;
 3. Constructing 8-inch diameter side sewer connections;
 4. Installing cast iron water trap for existing catch basins including cleanout cap;

5. Televising newly constructed main sewers, side sewers, and culverts;
 6. Saw cutting, removing and disposal of existing pavement;
 7. Excavation, backfilling and compaction of trench;
 8. Restoring concrete base inside and outside of sewer trench limit as necessary per excavation code;
 9. Supporting, working around and protecting certain San Francisco Water Department, Fire Department and other utility agency and company facilities in conjunction with the work under this contract; and all appurtenant work required in accordance with the Contract Documents and in accordance with San Francisco DPW Standard Specifications, dated November 2000.
 10. Performing all related and incidental work, all where and as shown on the Drawings and in accordance with the Project Manual.
- F. Contaminated Soil Work includes, but not limited to:
1. Project will include a gravel bed of 6 inches over the site, there is no anticipated contaminated soil work on the project.
- G. Landscape Architectural Work includes, but not limited to:
1. Site furnishings and mounting as depicted in drawings and per Ross Rec proposal. Site improvements including bicycle racks, terraced garden areas, fences, gates and other improvements as indicated on drawings.
- H. Electrical Work includes, but not limited to:
1. Coordination with new Pacific Gas and Electric service including providing trench from main point of connection, subgrade improvements, conduits, and transformer pad.
 2. New main switchboard and routing and distribution of electrical on site.
 3. Coordination and electrical service connections with modular buildings.
- I. Water Work includes, but not limited to:
1. New domestic and fire water service and site utilities as indicated in the drawings.
 2. Water distribution and fixtures in Dormitory and Community buildings.
 3. Coordination and water service connections for modular buildings
- J. Fire and Life Safety Work:
1. Installation of fire sprinklers and fire alarms and connection to under exterior decking and outside the scope of the Modular Trailer Contractor, if required. (Note: All fire sprinkler and fire alarm work for Modular Trailers to be installed by Modular Trailer Contractor.)
- K. The Work shall include providing all labor, tools, equipment, materials, transportation and services, and performing all operations necessary for and properly incidental to the construction and completion of the Work as indicated on the Contract Documents.
- L. The Drawings indicate the location, extent, design, and details of the Work required to be performed. The Drawings are listed in the Index of Drawings. When reference is made to "plans" in the Contract Documents, it shall be understood that such reference refers to the Drawings.
1. The Drawings may refer to certain details of Work, which are shown on the Standard Plans of the City and County of San Francisco Department of Public Works, Bureau of Engineering, dated April, 2007. All such referenced details shall be incorporated into the Contract Documents by their reference.
 2. Refer to Section 01 42 00 – References for availability of the DPW Standard Plans.

1.3 COORDINATION WITH LOCAL BUSINESSES

- A. Contractor is required to Coordinate Construction efforts and minimize impacts to the neighborhood residents and businesses. This shall be incidental to the Work, except graffiti removal within an approved and secured storage area may be compensable under a bid allowance, if explicitly included as a bid item.
1. No area within the public right of way (from property line to property line and including but not limited to streets, parking strips, bicycle lanes, gutters, curbs, paths and sidewalks) shall have restricted public access for more than five (5) calendar days, with the exceptions of areas of new curb ramp and bus pad construction if specified in Section 01 55 26. Contractor shall restore and reopen to the public any and all areas of the public right of way within these specified time limits.
 2. Work shall not prevent pedestrians from entering operating businesses.
 3. At any time that the Contractor occupies the sidewalk along any block, the Contractor shall coordinate with the businesses that are located on or require access through occupied area to maintain daily delivery access and access to garbage/recycling removal services. If the Contractor's activities prevent a business from placing its garbage or recycling on the curb for pickup, Contractor shall at its expense assist the business with handling and transport of garbage and recycling refuse to nearby designated garbage/recycling collection locations. The Contractor's attention is directed to the existing garbage/recycling collection times, which are typically at night or early morning.
 4. Contractor shall coordinate with and assist businesses that receive deliveries at night or early morning to ensure that delivery areas, including sub-sidewalk access doors, are accessible.
 5. Contractor shall daily remove all graffiti on all barricades, equipment, buildings and pavement in the Work area. Contractor shall no less than daily and as often as may be required by the Engineer to remove trash, litter, and debris from businesses along the alignment when Contractor is performing Work in front of or immediately adjacent to said businesses. Contractor is not expected to provide litter and trash removal services to the businesses not directly impacted by Contractor's immediate Work. However, Contractor shall take all reasonable measures to ensure that the business entrances and public areas immediately adjacent to where it is performing Work are to be kept, clean, orderly, and accessible to the public.
 6. Contractor shall coordinate and provide access to businesses for window cleaning and if safe access is not available, the Contractor shall make safe access within 24 hours of request, which shall be incidental to the Work.

1.4 WORK RESTRICTIONS

- A. The facility will be occupied and open to the public during the Work of this Contract. The Contractor shall take all necessary precautions and implement mitigation controls to minimize disruption to open areas. Contractor shall maintain access to these areas outside of the construction fence at all times during construction. The building will be closed to the public during construction.
- B. The Contractor shall provide site access for City Staff and for regularly scheduled garbage pickup at all times and all other activities as needed.

- C. If at any time during construction, access is limited, the Contractor shall notify the City Representative in writing and obtain approval prior to closing vehicular or pedestrian access.

1.5 SUBMITTALS, PUBLIC NOTIFICATION, AND MEETINGS BEFORE NOTICE TO PROCEED (NTP)

- A. Contractor shall submit the required Traffic Control Plans, EHASP, and Schedule as soon as possible after NTP in order to ensure said submittals are reviewed and approved by the City prior to start of field work. Contractor may request to submit after date of Award.
- B. The City Representative will schedule a Pre-Construction meeting as soon as possible after NTP in order to discuss schedules and sequence of operations with the Contractor.

1.6 SEQUENCING OF CONSTRUCTION

- A. After award and certification of the contract, a pre-construction meeting will be scheduled with the Contractor to determine the official date for commencement of the work. No fieldwork can begin prior to the Contractor's receipt of written permission from the City Representative. The City shall have full jurisdiction and responsibility of the property until the commencement date for fieldwork.
- B. After notification of the commencement date, the Contractor shall be allowed ninety (90) calendar days for shop drawings submittal and approval, procurement and delivery of the custom fabricated site furnishings.
- C. Contractor shall be familiar with the terms, conditions, and payment schedule required by suppliers prior to submitting bid. Any delays to the custom fabricated item procurement schedule caused by incomplete or inaccurate shop drawing submittals and/or failure to comply with these terms, conditions and payment schedule required by the material suppliers, shall be the responsibility of the Contractor.

1.7 WORK SCHEDULING

- A. Refer to schedule, Temporary Street Closures, appended to this Section for traffic lane requirements that may affect the Contractor's schedule of operations.
- B. The Contractor shall coordinate its operations with the City and shall incorporate in its Progress Schedule activities for all special events that will require the Contractor to suspend its operations at the project site.
- C. The Contractor's working hours shall be as specified in Section 00 72 00 - General Conditions, subparagraph 1.01A.63, except as specified otherwise in these Specifications.
- D. The Contractor shall not commence any excavation in the public right-of-way without a valid excavation permit issued by the San Francisco Department of Public Works, Bureau of Street Use and Mapping. The Contractor shall submit a copy of the excavation permit.

1.8 TRAFFIC ROUTING WORK

- A. The Contractor shall be responsible to provide incidental traffic routing work, such as described below, to ensure adequate protection of the general public and the Work.
- B. The Contractor shall provide incidental traffic routing work in accordance with the requirements of the "Regulations for Working in San Francisco Streets (Blue Book)" by

the San Francisco Municipal Transportation Agency (SFMTA), latest edition. Refer to the following website for the latest copy of the Blue Book:

<http://www.sfmta.com/services/streets-sidewalks/construction-regulations>

- C. The Contractor shall obtain the approval of the SFMTA for any required prohibition of stopping from the Traffic Bureau (415) 554-9928, at least 72 hours in advance of the effective date and time. The Contractor shall post the signs at least 72 hours in advance of the effective date and time.
- D. In the event the Contractor occupies parking areas within the Public Right of Way including the sidewalk, the Contractor shall obtain the approval of, and pay for any required permits for occupation of the sidewalk and parking spaces from the SFMTA.

1.9 CONTRACTOR USE OF SITE

- A. Use of Site: Limit use of the site for construction operations necessary to perform the Work indicated on the Drawings. Obtain prior written approval from the City for access to areas of the site occupied by the City. Protect and repair or restore to the existing condition surrounding areas damaged by the Contractor's operations.
- B. Contractor's Work Area: The Contractor's work area is limited to the areas included within the limits of work as shown on the Contract Drawings and as adjusted by the temporary construction fencing.
 - 1. Refer to Section 01 50 00 - Temporary Facilities and Controls for work area maintenance requirements.
- C. Parking and Storage Location Plan
 - 1. Only one storage location shall be used on the project at one time. If more than one parking and storage location is desired, Contractor must submit request for multiple locations. The City may require the Contractor to cease or modify parking and storage plans, even if previously approved, and may rescind approval of all parking and storage areas. Refer to Section 01 55 26-1.4.C for additional requirements.
 - 2. Tow Away / No Parking (TANS) zones are allowed only in area of approved parking and storage plans and/or as indicated on the applicable traffic control plan and only while the applicable work is being performed. Prior approval in writing of each instance of posting and tow away activation must be obtained from the City Representative. If prior written approval is not obtained, the City may remove signage and/or may deactivate tow away authorization. Refer to Section 01 55 26-3.9 for additional requirements.
 - 3. Do not utilize City streets for additional staging and storage areas.
 - 4. Do not enter upon or use any property not under control of the City until a written temporary construction easement agreement has been executed by the Contractor and the property owner, and a copy of said agreement furnished to the City Representative prior to said use. Neither the City nor the City Representative shall be liable for any claims or damages resulting from the Contractor's unauthorized trespass or use of any such properties.
- D. Maintenance of Work Area: Maintain the work areas in a safe condition at all times. Remove all graffiti and accumulated rubbish and debris material deposited within the construction site at the end of each work day. The Contractor is responsible to maintain the project area for the entire duration of the Contract. Clean and restore the work site at completion of the work to the condition that existed prior to the start of work.
- E. Security Of Contractor's Work Areas: Security of the Contractor's work areas and its property, equipment, construction materials and all other items contained in the

Contractor's staging areas or elsewhere on the construction site shall be the Contractor's sole responsibility at all times.

1.10 SPECIAL INSTRUCTIONS

- A. The Contractor shall use proper equipment to prevent unnecessary damages to facilities at the project site such as no heavy equipment on the top of sidewalks.
- B. Through the City Representative, Contractor shall coordinate with Recology for neighborhood garbage collection. Through the Resident Engineer, contact Tom Lavazolli, Operations Manager for Recology at 415-330-1300.
- C. Tree trimming and tree removal shall be part of incidental cost. Tree removal or relocation shall require a permit application and fee to BUF. Refer to Section 01 55 26-3.11 for additional requirements.

END OF SECTION

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|--|-------------|-----------|-------------|----------|--|
| GDC Mixer at Mezzanine | Tue 3/20/18 | 8:00 AM | Thu 3/22/18 | 2:00 AM | Jessie: 6th Street to Mint |
| Old Skool Café Gala | Thu 3/22/18 | 1:00 PM | Thu 3/22/18 | 10:30 PM | Oakdale: 3rd to Lane Streets |
| March for Our Lives | Sat 3/24/18 | 11:00 AM | Sat 3/24/18 | 5:00 PM | Advisory: Civic Center Plaza rally; possible march |
| Yee Family Lion Dance | Sun 3/25/18 | 9:00 AM | Sun 3/25/18 | 3:00 PM | Waverly Place between Washington and Clay Streets |
| Sunday Streets Excelsior | Sun 3/25/18 | 10:00 AM | Sun 3/25/18 | 4:30 PM | Mission Street between Avalon and Geneva Avenues; Cotter St, Francis St, Santa Rosa Ave, Onondaga, and Seneca Ave between Mission Street and Alemany Avenue; Ocean Avenue between Persia and Mission Streets; Intersections: Amazon, Russia, Onondaga, Leo, Ruth, San Juan, Norton, Brazil, Harrington, Santa Rosa, Excelsior, Francis, and Cotter Streets at Mission Street |
| Salesforce Trailhead | Mon 3/26/18 | 7:00 PM | Mon 3/26/18 | 11:59 PM | 4th Street (westernmost traffic lane only) between Minna and Howard Streets |
| Salesforce Trailhead | Mon 3/26/18 | 7:00 PM | Thu 3/29/18 | 11:59 PM | Minna Street (southernmost traffic and parking lanes only) between 4th and 5th Streets |
| Giants v Athletics | Mon 3/26/18 | 7:15 PM | Mon 3/26/18 | 10:15 PM | AT&T Park |
| Giants v Athletics | Tue 3/27/18 | 6:05 PM | Tue 3/27/18 | 9:05 PM | AT&T Park |
| Salesforce Trailhead | Thu 3/29/18 | 7:00 PM | Thu 3/29/18 | 11:59 PM | 4th Street (westernmost traffic lane only) between Minna and Howard Streets |
| Critical Mass | Fri 3/30/18 | 6:00 PM | Fri 3/30/18 | 10:00 PM | Justin Herman Plaza to ? |
| Chinatown Springtime Neighborhood Festival | Sat 3/31/18 | 8:00 AM | Sat 3/31/18 | 6:00 PM | |
| Union Street Spring Festival & Easter Parade | Sun 4/1/18 | 2:00 AM | Sun 4/1/18 | 11:00 PM | Union Street between Gough and Fillmore Streets; Octavia Street between Filbert and Green Streets; Laguna Street between Filbert and Green Streets; Webster Street between Filbert and Green Streets; Buchanan Street between Filbert and Green Streets; Intersections: Octavia, Laguna, Buchanan, and Webster Streets at Union Street |
| Bring Your Own Big Wheel | Sun 4/1/18 | 11:00 AM | Sun 4/1/18 | 7:00 PM | Vermont: 20th to 22nd Streets |
| Easter Sunday | Sun 4/1/18 | | Sun 4/1/18 | | Holiday |
| Giants v Mariners | Tue 4/3/18 | 1:35 PM | Tue 4/3/18 | 4:35 PM | AT&T Park |
| Giants v Mariners | Wed 4/4/18 | 4:15 PM | Wed 4/4/18 | 7:15 PM | AT&T Park |
| Giants v Dodgers | Fri 4/6/18 | 7:15 PM | Fri 4/6/18 | 10:15 PM | AT&T Park |
| Rock n Roll Half Marathon | Sat 4/7/18 | 7:00 AM | Sun 4/8/18 | 5:00 PM | Embarcadero; Bay; Marina; etc |
| Giants v Dodgers | Sat 4/7/18 | 1:05 PM | Sat 4/7/18 | 4:05 PM | AT&T Park |
| Inner Sunset Sundays | Sun 4/8/18 | 6:30 AM | Sun 4/8/18 | 7:30 PM | Irving Street between 9th and 10th Avenues |
| Giants v Dodgers | Sun 4/8/18 | 1:05 PM | Sun 4/8/18 | 4:05 PM | AT&T Park |
| Giants v D-backs | Mon 4/9/18 | 7:15 PM | Mon 4/9/18 | 10:15 PM | AT&T Park |
| Giants v D-backs | Tue 4/10/18 | 7:15 PM | Tue 4/10/18 | 10:15 PM | AT&T Park |
| Giants v D-backs | Wed 4/11/18 | 12:45 PM | Wed 4/11/18 | 3:45 PM | AT&T Park |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|---|-------------|-----------|-------------|----------|--|
| Polk Street Spring Wine Walk | Thu 4/12/18 | 4:00 PM | Thu 4/12/18 | 8:00 PM | Polk St: Sutter to Filbert [NO CLOSURE - Increased traffic and pedestrians |
| Cherry Blossom Festival | Sat 4/14/18 | 4:00 AM | Sun 4/15/18 | 11:00 PM | Post: Laguna to Fillmore; Webster: Sutter to Geary; Buchanan: Sutter to Bush |
| Cesar Chavez Parade Staging | Sat 4/14/18 | 9:00 AM | Sat 4/14/18 | 1:00 PM | 19th St: Dolores to Guerrero |
| Cesar Chavez Day Parade | Sat 4/14/18 | 9:00 AM | Sat 4/14/18 | 1:00 PM | 19th/Guerrero to Mission to 24th Street |
| Red Umbrellas Maiden Lane Art Show | Sat 4/14/18 | 9:00 AM | Sat 4/14/18 | 6:00 PM | Maiden Lane: Stockton to Grant |
| Cesar Chavez Holiday Festival | Sat 4/14/18 | 9:00 AM | Sat 4/14/18 | 8:00 PM | 24th St: Treat to Bryant; Harrison: 23rd to 25th |
| California Historical Society Exhibit Opening | Sat 4/14/18 | 11:00 AM | Sat 4/14/18 | 6:00 PM | Annie Street between Jessie and Mission Street; Ambrose Bierce between Annie and New Montgomery Streets; Intersection Closed: Annie Street at Ambrose Bierce |
| California Mille | Sun 4/15/18 | 4:00 AM | Mon 4/16/18 | 10:00 AM | Mason: Sacramento to California |
| RSA Conference | Sun 4/15/18 | 7:00 AM | Fri 4/20/18 | 4:00 PM | Howard Street (northernmost traffic lane only) between 3rd and 4th Streets |
| Sunday Streets Bayview/Dogpatch | Sun 4/15/18 | 10:00 AM | Sun 4/15/18 | 4:30 PM | SB 3rd St: 22nd to Donner |
| RSA Conference | Mon 4/16/18 | 5:30 AM | Fri 4/20/18 | 4:00 PM | 4th Street (westernmost traffic lane only) between Minna and Howard Streets |
| Film Base Camp | Mon 4/16/18 | 6:00 AM | Fri 4/27/18 | 5:00 PM | Fulton: Larkin to Hyde |
| Commonwealth Club Gala | Wed 4/18/18 | 6:00 AM | Fri 4/20/18 | 5:00 PM | Steuart Street between Mission and Howard |
| Student Walkout | Fri 4/20/18 | | Fri 4/20/18 | | Advisory: planned day of action on anniversary of Columbine shootings |
| 420 | Fri 4/20/18 | | Fri 4/20/18 | | Stanyan, Haight, Fulton, Kezar: Golden Gate Park |
| Cherry Blossom Festival | Sat 4/21/18 | 4:00 AM | Sun 4/22/18 | 11:00 PM | Post: Laguna to Fillmore; Webster: Sutter to Geary; Buchanan: Sutter to Bush |
| SFMOMA Modern Ball | Sat 4/21/18 | 7:00 AM | Fri 4/27/18 | 3:00 PM | Natoma: New Montgomery to Westerly Terminus |
| Mission Crit Bicycle Race | Sat 4/21/18 | 9:00 AM | Sat 4/21/18 | 11:59 PM | Treat Avenue between 16th and 18th Streets; Harrison Street between 16th and 18th Streets; 18th Street between Folsom and Harrison Streets; 17th Street between Folsom and Alabama Streets; Mariposa Street between Harrison and Alabama Streets; Alabama Street between 17th and Mariposa Streets; Intersections: 17th, 18th and Mariposa Streets at Harrison Street; 17th and 18th Streets at Treat Avenue |
| Cherry Blossom Festival | Sun 4/22/18 | | Sun 4/22/18 | | Civic Center via Polk to Post to Japantown |
| Giants v Nationals | Mon 4/23/18 | 7:15 PM | Mon 4/23/18 | 10:15 PM | AT&T Park |
| Giants v Nationals | Tue 4/24/18 | 7:15 PM | Tue 4/24/18 | 10:15 PM | AT&T Park |
| Giants v Nationals | Wed 4/25/18 | 12:45 PM | Wed 4/25/18 | 3:45 PM | AT&T Park |
| Critical Mass | Fri 4/27/18 | 6:00 PM | Fri 4/27/18 | 10:00 PM | Justin Herman Plaza to ? |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|------------------------------------|-------------|-----------|-------------|----------|---|
| Giants v Dodgers | Fri 4/27/18 | 7:15 PM | Fri 4/27/18 | 10:15 PM | AT&T Park |
| London Living Street | Sat 4/28/18 | 8:00 AM | Sat 4/28/18 | 3:00 PM | London Street between Avalon and Excelsior Avenues |
| Argonne Spring Fair Block Party | Sat 4/28/18 | 8:00 AM | Sat 4/28/18 | 4:00 PM | 17th Ave: Balboa to Cabrillo |
| Giants v Dodgers | Sat 4/28/18 | 6:05 PM | Sat 4/28/18 | 9:05 PM | AT&T Park |
| S.F. Eagle Anniversary Party | Sun 4/29/18 | 7:00 AM | Fri 4/20/18 | 12:01 PM | 12th Street: Bernice to Harrison |
| Dia de los Ninos/Dia de los Libros | Sun 4/29/18 | 9:00 AM | Sun 4/29/18 | 5:00 PM | 23rd St: Treat to Folsom |
| Neighborhood Block Party | Sun 4/29/18 | 9:00 AM | Sun 4/29/18 | 10:00 PM | 6th Avenue between Judah and Kirkham |
| Neighborhood Block Party | Sun 4/29/18 | 10:00 AM | Sun 4/29/18 | 5:00 PM | Shore View Avenue between 36th and 37th Avenues |
| Neighborhood Block Party | Sun 4/29/18 | 11:00 AM | Sun 4/29/18 | 3:00 PM | Jersey Street between Castro and Diamond Streets |
| Giants v Dodgers | Sun 4/29/18 | 1:05 PM | Sun 4/29/18 | 4:05 PM | AT&T Park |
| Giants v Padres | Mon 4/30/18 | 7:15 PM | Mon 4/30/18 | 10:15 PM | AT&T Park |
| Giants v Padres | Tue 5/1/18 | 7:15 PM | Tue 5/1/18 | 10:15 PM | AT&T Park |
| Giants v Padres | Wed 5/2/18 | 12:45 PM | Wed 5/2/18 | 3:45 PM | AT&T Park |
| Cinco de Mayo | Fri 5/4/18 | 10:00 PM | Sat 5/5/18 | 10:00 PM | Valencia: 21st to 24th streets |
| Aventine Event | Fri 5/4/18 | 3:00 PM | Fri 5/4/18 | 11:00 PM | Hotelling Place: Washington to Jackson |
| Balboa High 90th Block Party | Sat 5/5/18 | 8:00 AM | Sat 5/5/18 | 4:00 PM | Cayuga Avenue between Onondaga and Oneida Avenue; Balhi Court between Cayuga Avenue and eastern terminus; Intersection of Balhi Court at Cayuga Avenue |
| Cameron Carnival | Sat 5/5/18 | 9:00 AM | Sat 5/5/18 | 9:00 PM | Joice Alley: Clay to Sacramento |
| Cinco de Mayo | Sat 5/5/18 | | Sat 5/5/18 | | Valencia: 21st to 24th streets |
| Urban Air Market: Hayes Valley | Sun 5/6/18 | 7:00 AM | Sun 5/6/18 | 7:00 PM | Octavia: Fell to Fulton; Linden: Octavia to Gough |
| How Weird Street Fair | Sun 5/6/18 | 7:00 AM | Sun 5/6/18 | 11:30 PM | Howard: 1st St to New Montgomery; 2nd St: Mission to Folsom |
| St. Agnes Anniversary | Sun 5/6/18 | 9:00 AM | Sun 5/6/18 | 5:00 PM | Page St: Ashbury St to Masonic |
| Sunday Streets Tenderloin | Sun 5/6/18 | 10:00 AM | Sun 5/6/18 | 4:30 PM | Ellis Street between Larkin and Taylor Streets; Golden Gate Avenue between Polk and Jones Streets; Larkin Street between Ellis and Grove Streets; Jones Street between O'Farrell Street and Golden Gate Avenue; Turk Street between Taylor and Jones Streets; Fulton Street between Larkin and Hyde Streets; Intersections: Golden Gate, Turk and Ellis at Larkin Street; Ellis Street and Golden Gate Avenue at Hyde Street; Golden Gate, Turk and Ellis at Jones Street |
| Neighborhood Block Party | Sun 5/6/18 | 2:00 PM | Sun 5/6/18 | 7:00 PM | Washington Street between Locust and Spruce Streets |
| Corporate Party | Thu 5/10/18 | 10:00 AM | Fri 5/11/18 | 1:00 AM | Julian Avenue between 14th and 15th Streets |
| Bike to Work Day | Thu 5/10/18 | | Thu 5/10/18 | | Advisory |
| Uncorked Wine Festival | Sat 5/12/18 | 2:00 AM | Sat 5/12/18 | 11:00 PM | Polk: North Point to Beach; Beach: Larkin to Terminus |
| UC Hastings Commencement | Sat 5/12/18 | 8:00 AM | Sat 5/12/18 | 7:00 PM | Grove: Polk to Larkin |
| Star of the Sea School Fest | Sat 5/12/18 | 9:00 AM | Sat 5/12/18 | 3:00 PM | 8th Avenue: Clement to Grove |
| Inner Sunset Sundays | Sun 5/13/18 | 6:30 AM | Sun 5/13/18 | 7:30 PM | Irving Street between 9th and 10th Avenues |
| Giants v Reds | Mon 5/14/18 | 7:15 PM | Mon 5/14/18 | 10:15 PM | AT&T Park |

Upcoming Temporary Street Closures

APPENDIX A TO SECTION 01 11 00

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|--------------------------------|-------------|-----------|-------------|----------|--|
| Giants v Reds | Tue 5/15/18 | 7:15 PM | Tue 5/15/18 | 10:15 PM | AT&T Park |
| Giants v Reds | Wed 5/16/18 | 12:45 PM | Wed 5/16/18 | 3:45 PM | AT&T Park |
| Giants v Rockies | Thu 5/17/18 | 7:15 PM | Thu 5/17/18 | 10:15 PM | AT&T Park |
| AUA Conference | Fri 5/18/18 | 5:00 AM | Mon 5/21/18 | 8:00 PM | Howard (nothernmost lane only):3rd to 4th; Folsom southernmost lane only):3rd to 4th |
| Giants v Rockies | Fri 5/18/18 | 7:15 PM | Fri 5/18/18 | 10:15 PM | AT&T Park |
| Heritage SF | Sat 5/19/18 | 12:01 AM | Sat 5/19/18 | 11:59 PM | Larkin Street between McAllister and Grove Streets; Fulton Street between Larkin and Hyde Streets; Intersection: Fulton Street at Larkin Street |
| Neighborhood Block Party | Sat 5/19/18 | 1:00 PM | Sat 5/19/18 | 7:00 PM | College Ave: St Marys to Mission |
| Giants v Rockies | Sat 5/19/18 | 1:05 PM | Sat 5/19/18 | 4:05 PM | AT&T Park |
| Bay to Breakers | Sat 5/19/18 | 7:00 PM | Sun 5/20/18 | 4:00 PM | Main Street: Mission to Folsom; throughout city |
| Giants v Rockies | Sun 5/20/18 | 1:05 PM | Sun 5/20/18 | 4:05 PM | AT&T Park |
| SFSU Commencement | Thu 5/24/18 | 3:00 PM | Thu 5/24/18 | 10:30 PM | Terry Francois: 3rd to South |
| Carnaval Festival | Fri 5/25/18 | 4:00 PM | Mon 5/28/18 | 2:00 AM | Harrison: 16th to 24th Sts; etc. |
| Critical Mass | Fri 5/25/18 | 6:00 PM | Fri 5/25/18 | 10:00 PM | Justin Herman Plaza to ? |
| Carnaval Parade | Sun 5/27/18 | 9:30 AM | Sun 5/27/18 | 3:00 PM | 24th Street at Bryant to 24th to Mission to 16th |
| Clusterfest | Mon 5/28/18 | 6:00 AM | Wed 6/6/18 | 4:00 PM | Rolling schedule of closures in streets surrounding Civic Center Plaza |
| Neighborhood Block Party | Mon 5/28/18 | 11:00 AM | Mon 5/28/18 | 5:00 PM | Page St: Lyon to Baker |
| Giants v Phillies | Fri 6/1/18 | 7:15 PM | Fri 6/1/18 | 10:15 PM | AT&T Park |
| Bayview SPARC | Sat 6/2/18 | 12:01 AM | Sat 6/2/18 | 11:59 PM | Egbert Avenue between 3rd and Jennings Streets |
| Union Street Festival | Sat 6/2/18 | 12:01 AM | Sun 6/3/18 | 11:59 PM | Union Street between Gough and Fillmore Streets; Octavia Street between Filbert and Green Streets; Laguna Street between Filbert and Green Streets; Webster Street between Filbert and Green Streets; Buchanan Street between Filbert and Green Streets; Intersections: Octavia; Laguna; Buchanan; and Webster Streets at Union Street |
| Giants v Phillies | Sat 6/2/18 | 7:05 PM | Sat 6/2/18 | 10:05 PM | AT&T Park |
| 98th Annual Statuto Race | Sun 6/3/18 | 7:00 AM | Sun 6/3/18 | 12:01 PM | Stockton: Union to North Pt; North Point: Stockton to Emb |
| Escape from Alcatraz Triathlon | Sun 6/3/18 | 5:30 AM | Sun 6/3/18 | 1:00 PM | Various in NW of SF (Marina Green -> GGP) |
| Sunday Streets Sunset | Sun 6/3/18 | 10:00 AM | Sun 6/3/18 | 4:30 PM | Lincoln Way: MLK to Great Hwy; Great Hwy: Lincoln to Sloat; GG Park |
| Giants v Phillies | Sun 6/3/18 | 1:05 PM | Sun 6/3/18 | 4:05 PM | AT&T Park |
| Giants v D-backs | Mon 6/4/18 | 7:15 PM | Mon 6/4/18 | 10:15 PM | AT&T Park |
| Giants v D-backs | Tue 6/5/18 | 7:15 PM | Tue 6/5/18 | 10:15 PM | AT&T Park |
| Special Election | Tue 6/5/18 | | Tue 6/5/18 | | Advisory - no street closures: Civic Center; Pier 48; activity throughout the City |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|-------------------------------|-------------|-----------|-------------|----------|--|
| Live Oak Graduation | Wed 6/6/18 | 7:00 AM | Wed 6/6/18 | 3:30 PM | Mariposa: Carolina to Arkansas |
| Giants v D-backs | Wed 6/6/18 | 12:45 PM | Wed 6/6/18 | 3:45 PM | AT&T Park |
| Ghirardelli Square Festival | Sat 6/9/18 | 12:01 AM | Sun 6/10/18 | 11:59 PM | Beach: Larkin to Polk; Polk: North Point to Beach |
| 26th Alcatraz Sharkfest Swim | Sat 6/9/18 | 12:01 AM | Sat 6/9/18 | 2:00 PM | Jefferson: Hyde to Westerly Terminus |
| Genentech Employee Event | Sat 6/9/18 | 10:00 AM | Sat 6/9/18 | 6:00 PM | Terry Francois: 3rd to South |
| Across the Bay 12k | Sun 6/10/18 | 3:30 AM | Sun 6/10/18 | 11:59 PM | Golden Gate Bridge to Aquatic Park |
| Inner Sunset Sundays | Sun 6/10/18 | 6:30 AM | Sun 6/10/18 | 7:30 PM | Irving Street between 9th and 10th Avenues |
| North Beach Festival | Sat 6/16/18 | 12:01 AM | Sun 6/17/18 | 11:59 PM | Grant Avenue between Columbus Avenue and Filbert Street; Columbus Avenue between Broadway and Green Streets; Vallejo Street between Stockton Street and Grant Avenue; Green Street between Columbus and Grant Avenues; Intersections: Vallejo and Green at Grant Avenue; Grant at Columbus Avenue |
| Giants v Marlins | Mon 6/18/18 | 7:15 PM | Mon 6/18/18 | 10:15 PM | AT&T Park |
| Giants v Marlins | Tue 6/19/18 | 7:15 PM | Tue 6/19/18 | 10:15 PM | AT&T Park |
| Giants v Marlins | Wed 6/20/18 | 12:45 PM | Wed 6/20/18 | 3:45 PM | AT&T Park |
| SF Pride Festival | Thu 6/21/18 | 9:00 AM | Mon 6/25/18 | 1:00 PM | Grove, etc. |
| Giants v Padres | Thu 6/21/18 | 7:15 PM | Thu 6/21/18 | 10:15 PM | AT&T Park |
| Trans March | Fri 6/22/18 | 6:00 PM | Fri 6/22/18 | 9:00 PM | Dolores Park to Dolores to Market to Taylor to Turk |
| Giants v Padres | Fri 6/22/18 | 7:15 PM | Fri 6/22/18 | 10:15 PM | AT&T Park |
| Escape From the Rock Duathlon | Sat 6/23/18 | 12:01 AM | Sat 6/23/18 | 2:00 PM | Jefferson: Hyde to Westerly Terminus |
| Nursery School Block Party | Sat 6/23/18 | 8:00 AM | Sat 6/23/18 | 4:00 PM | Jarboe: Moultrie to Anderson |
| Dyke March Event | Sat 6/23/18 | 9:00 AM | Sat 6/23/18 | 12:00 PM | Dolores: 17th to 20th Sts |
| Giants v Padres | Sat 6/23/18 | 1:05 PM | Sat 6/23/18 | 4:05 PM | AT&T Park |
| SF Pride Parade | Sun 6/24/18 | 7:00 AM | Sun 6/24/18 | 12:00 AM | Market St: Steuart to Van Ness etc. |
| Giants v Padres | Sun 6/24/18 | 1:05 PM | Sun 6/24/18 | 4:05 PM | AT&T Park |
| Giants v Rockies | Tue 6/26/18 | 7:15 PM | Tue 6/26/18 | 10:15 PM | AT&T Park |
| Giants v Rockies | Wed 6/27/18 | 7:15 PM | Wed 6/27/18 | 10:15 PM | AT&T Park |
| Giants v Rockies | Thu 6/28/18 | 12:45 PM | Thu 6/28/18 | 3:45 PM | AT&T Park |
| Critical Mass | Fri 6/29/18 | 6:00 PM | Fri 6/29/18 | 10:00 PM | Justin Herman Plaza to ? |
| Fillmore Jazz Festival | Sat 6/30/18 | 12:01 AM | Sun 7/1/18 | 11:59 PM | Fillmore Street between Jackson and Eddy Streets; Washington Street between Webster and Steiner Streets; Clay Street between Steiner and Webster Streets; O'Farrell Street between Steiner and Fillmore Streets; Intersections: Ellis, Wilmot, O'Farrell, Washington and Clay Streets at Fillmore Street |
| City 4th of July Celebration | Wed 7/4/18 | 2:00 PM | Wed 7/4/18 | 11:59 PM | Fireworks at the Wharf |
| Giants v Cardinals | Thu 7/5/18 | 7:15 PM | Thu 7/5/18 | 10:15 PM | AT&T Park |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|--|-------------|-----------|-------------|----------|---|
| Giants v Cardinals | Fri 7/6/18 | 7:15 PM | Fri 7/6/18 | 10:15 PM | AT&T Park |
| Giants v Cardinals | Sat 7/7/18 | 1:05 PM | Sat 7/7/18 | 4:05 PM | AT&T Park |
| Inner Sunset Sundays | Sun 7/8/18 | 6:30 AM | Sun 7/8/18 | 7:30 PM | Irving Street between 9th and 10th Avenues |
| Giants v Cardinals | Sun 7/8/18 | 1:05 PM | Sun 7/8/18 | 4:05 PM | AT&T Park |
| Giants v Cubs | Mon 7/9/18 | 7:15 PM | Mon 7/9/18 | 10:15 PM | AT&T Park |
| Giants v Cubs | Tue 7/10/18 | 7:15 PM | Tue 7/10/18 | 10:15 PM | AT&T Park |
| Giants v Cubs | Wed 7/11/18 | 12:45 PM | Wed 7/11/18 | 3:45 PM | AT&T Park |
| Giants v Athletics | Fri 7/13/18 | 7:15 PM | Fri 7/13/18 | 10:15 PM | AT&T Park |
| Giants v Athletics | Sat 7/14/18 | 7:05 PM | Sat 7/14/18 | 10:05 PM | AT&T Park |
| Sunday Streets Mission | Sun 7/15/18 | 10:00 AM | Sun 7/15/18 | 4:30 PM | Valencia: Duboce to 26th St |
| Giants v Athletics | Sun 7/15/18 | 1:05 PM | Sun 7/15/18 | 4:05 PM | AT&T Park |
| Rugby World Cup | Thu 7/19/18 | 8:00 AM | Mon 7/23/18 | 10:00 PM | Terry Francois: 3rd to South; King Street (southernmost lane); 2nd St to Townsend |
| Giants v Brewers | Thu 7/26/18 | 7:15 PM | Thu 7/26/18 | 10:15 PM | AT&T Park |
| Critical Mass | Fri 7/27/18 | 6:00 PM | Fri 7/27/18 | 10:00 PM | Justin Herman Plaza to ? |
| Giants v Brewers | Fri 7/27/18 | 7:15 PM | Fri 7/27/18 | 10:15 PM | AT&T Park |
| Giants v Brewers | Sat 7/28/18 | 6:05 PM | Sat 7/28/18 | 9:05 PM | AT&T Park |
| SF Marathon | Sun 7/29/18 | 12:01 AM | Sun 7/29/18 | 2:45 PM | Extensive closures throughout City |
| Up Your Alley Fair | Sun 7/29/18 | 5:00 AM | Sun 7/29/18 | 9:00 PM | Folsom: 9th to 11th; 10th: Howard to Harrison etc |
| Giants v Brewers | Sun 7/29/18 | 1:05 PM | Sun 7/29/18 | 4:05 PM | AT&T Park |
| Nihonmachi Street Fair [dates tentative] | Sat 8/4/18 | 5:00 AM | Sun 8/5/18 | 9:00 PM | Post: Laguna to Fillmore; Webster: Sutter to Geary |
| Giants v Astros | Mon 8/6/18 | 7:15 PM | Mon 8/6/18 | 10:15 PM | AT&T Park |
| Giants v Astros | Tue 8/7/18 | 12:45 PM | Tue 8/7/18 | 3:45 PM | AT&T Park |
| Polk Street Summer Wine Walk | Thu 8/9/18 | 4:00 PM | Thu 8/9/18 | 8:00 PM | Polk St: Sutter to Filbert [NO CLOSURE - Increased traffic and pedestrians |
| Giants v Pirates | Thu 8/9/18 | 7:15 PM | Thu 8/9/18 | 10:15 PM | AT&T Park |
| Giants v Pirates | Fri 8/10/18 | 7:15 PM | Fri 8/10/18 | 10:15 PM | AT&T Park |
| Giants v Pirates | Sat 8/11/18 | 6:05 PM | Sat 8/11/18 | 9:05 PM | AT&T Park |
| Giants v Pirates | Sun 8/12/18 | 1:05 PM | Sun 8/12/18 | 4:05 PM | AT&T Park |
| Sunday Streets Tenderloin | Sun 8/19/18 | 10:00 AM | Sun 8/19/18 | 4:30 PM | Ellis/Jones/Golden Gate/Larkin |
| Ed Sheeran Concert at AT&T Park | Tue 8/21/18 | 4:00 PM | Tue 8/21/18 | 11:59 PM | Terry Francois: 3rd to South |
| Giants v Rangers | Fri 8/24/18 | 7:15 PM | Fri 8/24/18 | 10:15 PM | AT&T Park |
| Neighborhood Block Party | Sat 8/25/18 | 9:00 AM | Sat 8/25/18 | 5:00 PM | Madrid: Peru to Avalon |
| Giants v Rangers | Sat 8/25/18 | 1:05 PM | Sat 8/25/18 | 4:05 PM | AT&T Park |
| Bridge to Bridge Run | Sun 8/26/18 | 7:15 AM | Sun 8/26/18 | 11:00 AM | N/B Embarcadero; Jefferson; Marina Blvd (w/b) etc. |
| Giants v Rangers | Sun 8/26/18 | 1:05 PM | Sun 8/26/18 | 4:05 PM | AT&T Park |
| Giants v D-backs | Mon 8/27/18 | 7:15 PM | Mon 8/27/18 | 10:15 PM | AT&T Park |
| Giants v D-backs | Tue 8/28/18 | 7:15 PM | Tue 8/28/18 | 10:15 PM | AT&T Park |
| Giants v D-backs | Wed 8/29/18 | 7:15 PM | Wed 8/29/18 | 10:15 PM | AT&T Park |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|--|-------------|-----------|-------------|----------|---|
| Critical Mass | Fri 8/31/18 | 6:00 PM | Fri 8/31/18 | 10:00 PM | Justin Herman Plaza to ? |
| Giants v Mets | Fri 8/31/18 | 7:15 PM | Fri 8/31/18 | 10:15 PM | AT&T Park |
| Giants v Mets | Sat 9/1/18 | 1:05 PM | Sat 9/1/18 | 4:05 PM | AT&T Park |
| Giants v Mets | Sun 9/2/18 | 1:05 PM | Sun 9/2/18 | 4:05 PM | AT&T Park |
| JP Morgan Chase Corporate Challenge | Thu 9/6/18 | 3:00 PM | Thu 9/6/18 | 10:00 PM | Terry Francois to 3rd St to Embarcadero at Howard |
| Ghirardelli Chocolate Festival | Sat 9/8/18 | 2:00 AM | Sun 9/9/18 | 11:00 PM | Polk: North Point to Beach; Beach: Larkin to Terminus |
| Giant Race Set-up | Sat 9/8/18 | 11:00 PM | Sun 9/9/18 | 2:00 PM | EB King: 2nd to 3rd; NB Embarcadero: Townsend to 2nd; NB 3rd St: King to Channel; Terry Francois: 3rd to Mission Rock |
| Giant Race | Sun 9/9/18 | 5:00 AM | Sun 9/9/18 | 1:00 PM | AT&T Park to Presidio and back |
| Sunday Streets Western Addition | Sun 9/9/18 | 10:00 AM | Sun 9/9/18 | 4:30 PM | Fillmore: Geary to Fulton; Fulton: Fillmore to Baker; Baker: McAllister to Fell |
| Giant Race Set-up | Sun 9/9/18 | 11:00 PM | Sun 9/9/18 | 2:00 PM | EB King: 2nd to 3rd; NB Embarcadero: Townsend to 2nd; NB 3rd St: King to Channel; Terry Francois: 3rd to Mission Rock |
| Giants v Braves | Mon 9/10/18 | 7:15 PM | Mon 9/10/18 | 10:15 PM | AT&T Park |
| Giants v Braves | Tue 9/11/18 | 7:15 PM | Tue 9/11/18 | 10:15 PM | AT&T Park |
| Giants v Braves | Wed 9/12/18 | 12:45 PM | Wed 9/12/18 | 3:45 PM | AT&T Park |
| Giants v Rockies | Fri 9/14/18 | 7:15 PM | Fri 9/14/18 | 10:15 PM | AT&T Park |
| Chinatown Autumn Moon Festival [dates tentative] | Sat 9/15/18 | 12:01 AM | Sun 9/16/18 | 8:00 PM | Grant: California to Broadway; Washington Wentworth to Stockton; etc |
| Giants v Rockies | Sat 9/15/18 | 6:05 PM | Sat 9/15/18 | 9:05 PM | AT&T Park |
| Urban Air Market: Hayes Valley | Sun 9/16/18 | 7:00 AM | Sun 9/16/18 | 7:00 PM | Octavia: Fell to Fulton; Linden: Octavia to Gough |
| Giants v Rockies | Sun 9/16/18 | 1:05 PM | Sun 9/16/18 | 4:05 PM | AT&T Park |
| Salesforce Conference [dates tentative] | Wed 9/19/18 | 8:00 PM | Sat 9/29/18 | 8:00 PM | Howard: 3rd to 4th Sts |
| Eagles Concert at AT&T Park | Thu 9/20/18 | 2:30 PM | Thu 9/20/18 | 11:59 PM | Terry Francois: 3rd to South |
| Schroeder's Oktoberfest | Fri 9/21/18 | 11:00 AM | Fri 9/21/18 | 10:00 PM | Front: California to Sacramento |
| Journey & Def Leppard Concert at AT&T Park | Fri 9/21/18 | 2:30 PM | Fri 9/21/18 | 11:59 PM | Terry Francois: 3rd to South |
| Bike MS: Waves to Wine | Sat 9/22/18 | | Sun 9/23/18 | | No closures: Bayshore-Geneva-Ocean-21st Ave-Sloat-Great Hwy-Pt Lobos-43rd Ave-Clement-32nd Ave-El Camino del Mar-Presidio |
| Sunday Streets Tenderloin | Sun 9/23/18 | 10:00 AM | Sun 9/23/18 | 4:30 PM | Ellis Street between Larkin and Taylor Streets; Golden Gate Avenue between Polk and Jones Streets; Larkin Street between Ellis and Grove Streets; Jones Street between O'Farrell Street and Golden Gate Avenue; Turk Street between Taylor and Jones Streets; Fulton Street between Larkin and Hyde Streets; Intersections: Golden Gate, Turk and Ellis at Larkin Street; Ellis Street and Golden Gate Avenue at Hyde Street; Golden Gate, Turk and Ellis at Jones Street |
| Giants v Padres | Mon 9/24/18 | 7:15 PM | Mon 9/24/18 | 10:15 PM | AT&T Park |
| Giants v Padres | Tue 9/25/18 | 7:15 PM | Tue 9/25/18 | 10:15 PM | AT&T Park |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|-------------------------------------|--------------|-----------|--------------|----------|--|
| Giants v Padres | Wed 9/26/18 | 7:15 PM | Wed 9/26/18 | 10:15 PM | AT&T Park |
| Valencia Street Wine Walk | Thu 9/27/18 | 4:00 PM | Thu 9/27/18 | 8:00 PM | Valencia St [NO CLOSURE - increased traffic and pedestrians] |
| Alcatraz Invitational Swim | Fri 9/28/18 | 5:00 PM | Sat 9/29/18 | 3:00 PM | Jefferson: Hyde to Westerly Terminus |
| Critical Mass | Fri 9/28/18 | 6:00 PM | Fri 9/28/18 | 10:00 PM | Justin Herman Plaza to ? |
| Giants v Dodgers | Fri 9/28/18 | 7:15 PM | Fri 9/28/18 | 10:15 PM | AT&T Park |
| Giants v Dodgers | Sat 9/29/18 | 1:05 PM | Sat 9/29/18 | 4:05 PM | AT&T Park |
| Folsom Street Fair | Sun 9/30/18 | 3:00 AM | Sun 9/30/18 | 10:00 PM | Folsom: 8th to 13th, 9th, 10th, 11th, 12th : How to Har |
| Blessing of the Fishing Fleet | Sun 9/30/18 | 8:00 AM | Sun 9/30/18 | 4:00 PM | Filbert: Stockton to Powell |
| Giants v Dodgers | Sun 9/30/18 | 12:05 PM | Sun 9/30/18 | 3:05 PM | AT&T Park |
| Union Street Harvest Wine Walk | Thu 10/4/18 | 4:00 PM | Thu 10/4/18 | 8:00 PM | Union St: Gough to Steiner [NO CLOSURE - increased traffic and pedestrians] |
| San Francisco Fleet Week Airshow | Fri 10/5/18 | 6:00 AM | Sun 10/7/18 | 6:00 PM | Jefferson: Hyde to Westerly Terminus |
| Hardly Strictly Bluegrass | Fri 10/5/18 | | Sun 10/7/18 | | Golden Gate Park |
| Castro Street Fair | Sun 10/7/18 | 4:00 AM | Sun 10/7/18 | 10:00 PM | Market: Noe to Eureka, etc. |
| Italian Heritage Parade | Sun 10/7/18 | | Sun 10/7/18 | | |
| Neighborhood Block Party | Sat 10/13/18 | 10:00 AM | Sat 10/13/18 | 4:00 PM | Ulloa Street between Laguna Honda Boulevard and Sydney Way |
| Sunday Streets Excelsior | Sun 10/14/18 | 10:00 AM | Sun 10/14/18 | 4:30 PM | Mission Street between Avalon and Geneva Avenues; Cotter St, Francis St, Santa Rosa Ave, Onondaga, and Seneca Ave between Mission Street and Alemany Avenue; Ocean Avenue between Persia and Mission Streets; Intersections: Amazon, Russia, Onondaga, Leo, Ruth, San Juan, Norton, Brazil, Harrington, Santa Rosa, Excelsior, Francis, and Cotter Streets at Mission Street |
| Civic Center Event | Fri 10/19/18 | | Sun 10/21/18 | | Civic Center Plaz and surrounding streets |
| Wharf Fest | Sat 10/20/18 | 12:00 AM | Sat 10/20/18 | 11:00 PM | Little Embarcadero: Powell to Taylor |
| Oracle OpenWorld [dates tentative] | Thu 10/25/18 | 8:00 AM | Sat 11/3/18 | 8:00 AM | Howard: 3rd to 4th Sts |
| Critical Mass | Fri 10/26/18 | 6:00 PM | Fri 10/26/18 | 10:00 PM | Justin Herman Plaza to ? |
| Golden Gate Half [dates tentative] | Fri 11/2/18 | 7:00 PM | Sun 11/4/18 | 7:30 AM | Marina Blvd: Laguna to Baker Streets; and other streets |
| Veteran's Day Parade | Sun 11/11/18 | 10:00 AM | Sun 11/11/18 | 12:00 PM | Fisherman's Warf Area; Embarcadero: North Point to Jefferson Jefferson: Embarcadero to Leavenworth |
| Critical Mass | Fri 11/30/18 | 6:00 PM | Fri 11/30/18 | 10:00 PM | Justin Herman Plaza to ? |
| South End Rowing Club Holiday Party | Sat 12/1/18 | 12:00 PM | Sat 12/1/18 | 11:59 PM | Jefferson: Hyde to Westerly Terminus |
| Critical Mass | Fri 12/28/18 | 6:00 PM | Fri 12/28/18 | 10:00 PM | Justin Herman Plaza to ? |
| NADA Convention | Thu 1/24/19 | | Sun 1/27/19 | | CAUTION: Market, Mission, Howard, Folsom, New Montgomery, 3rd, 4th and 5th |
| Protest Walk | Sat 1/26/19 | 11:00 AM | Sat 1/26/19 | 3:00 PM | Civic Center Plaza along Market toward Justin Herman |

Upcoming Temporary Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location |
|--|-------------|-----------|-------------|----------|---|
| Critical Mass | Fri 8/31/18 | 6:00 PM | Fri 8/31/18 | 10:00 PM | Justin Herman Plaza to ? |
| Giants v Mets | Fri 8/31/18 | 7:15 PM | Fri 8/31/18 | 10:15 PM | AT&T Park |
| Giants v Mets | Sat 9/1/18 | 1:05 PM | Sat 9/1/18 | 4:05 PM | AT&T Park |
| Giants v Mets | Sun 9/2/18 | 1:05 PM | Sun 9/2/18 | 4:05 PM | AT&T Park |
| JP Morgan Chase Corporate Challenge | Thu 9/6/18 | 3:00 PM | Thu 9/6/18 | 10:00 PM | Terry Francois to 3rd St to Embarcadero at Howard |
| Ghirardelli Chocolate Festival | Sat 9/8/18 | 2:00 AM | Sun 9/9/18 | 11:00 PM | Polk: North Point to Beach; Beach: Larkin to Terminus |
| Giant Race Set-up | Sat 9/8/18 | 11:00 PM | Sun 9/9/18 | 2:00 PM | EB King: 2nd to 3rd; NB Embarcadero: Townsend to 2nd; NB 3rd St: King to Channel; Terry Francois: 3rd to Mission Rock |
| Giant Race | Sun 9/9/18 | 5:00 AM | Sun 9/9/18 | 1:00 PM | AT&T Park to Presidio and back |
| Sunday Streets Western Addition | Sun 9/9/18 | 10:00 AM | Sun 9/9/18 | 4:30 PM | Fillmore: Geary to Fulton; Fulton: Fillmore to Baker; Baker: McAllister to Fell |
| Giant Race Set-up | Sun 9/9/18 | 11:00 PM | Sun 9/9/18 | 2:00 PM | EB King: 2nd to 3rd; NB Embarcadero: Townsend to 2nd; NB 3rd St: King to Channel; Terry Francois: 3rd to Mission Rock |
| Giants v Braves | Mon 9/10/18 | 7:15 PM | Mon 9/10/18 | 10:15 PM | AT&T Park |
| Giants v Braves | Tue 9/11/18 | 7:15 PM | Tue 9/11/18 | 10:15 PM | AT&T Park |
| Giants v Braves | Wed 9/12/18 | 12:45 PM | Wed 9/12/18 | 3:45 PM | AT&T Park |
| Giants v Rockies | Fri 9/14/18 | 7:15 PM | Fri 9/14/18 | 10:15 PM | AT&T Park |
| Chinatown Autumn Moon Festival [dates tentative] | Sat 9/15/18 | 12:01 AM | Sun 9/16/18 | 8:00 PM | Grant: California to Broadway; Washington Wentworth to Stockton; etc |
| Giants v Rockies | Sat 9/15/18 | 6:05 PM | Sat 9/15/18 | 9:05 PM | AT&T Park |
| Urban Air Market: Hayes Valley | Sun 9/16/18 | 7:00 AM | Sun 9/16/18 | 7:00 PM | Octavia: Fell to Fulton; Linden: Octavia to Gough |
| Giants v Rockies | Sun 9/16/18 | 1:05 PM | Sun 9/16/18 | 4:05 PM | AT&T Park |
| Salesforce Conference [dates tentative] | Wed 9/19/18 | 8:00 PM | Sat 9/29/18 | 8:00 PM | Howard: 3rd to 4th Sts |
| Eagles Concert at AT&T Park | Thu 9/20/18 | 2:30 PM | Thu 9/20/18 | 11:59 PM | Terry Francois: 3rd to South |
| Schroeder's Oktoberfest | Fri 9/21/18 | 11:00 AM | Fri 9/21/18 | 10:00 PM | Front: California to Sacramento |
| Journey & Def Leppard Concert at AT&T Park | Fri 9/21/18 | 2:30 PM | Fri 9/21/18 | 11:59 PM | Terry Francois: 3rd to South |
| Bike MS: Waves to Wine | Sat 9/22/18 | | Sun 9/23/18 | | No closures: Bayshore-Geneva-Ocean-21st Ave-Sloat-Great Hwy-Pt Lobos-43rd Ave-Clement-32nd Ave-El Camino del Mar-Presidio |
| Sunday Streets Tenderloin | Sun 9/23/18 | 10:00 AM | Sun 9/23/18 | 4:30 PM | Ellis Street between Larkin and Taylor Streets; Golden Gate Avenue between Polk and Jones Streets; Larkin Street between Ellis and Grove Streets; Jones Street between O'Farrell Street and Golden Gate Avenue; Turk Street between Taylor and Jones Streets; Fulton Street between Larkin and Hyde Streets; Intersections: Golden Gate, Turk and Ellis at Larkin Street; Ellis Street and Golden Gate Avenue at Hyde Street; Golden Gate, Turk and Ellis at Jones Street |
| Giants v Padres | Mon 9/24/18 | 7:15 PM | Mon 9/24/18 | 10:15 PM | AT&T Park |
| Giants v Padres | Tue 9/25/18 | 7:15 PM | Tue 9/25/18 | 10:15 PM | AT&T Park |

Long-Term and Recurring Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location | Notes |
|--------------------------------|--------------|-----------|--------------|---------|--|--|
| Off the Grid: Minna | Wed 5/31/17 | 10:00 AM | Wed 5/30/18 | 3:00 PM | Minna: 5th to Mary | Each Wed & Friday, 10 AM to 3 PM |
| Clement Street Farmers' Market | Sun 6/4/17 | 7:00 AM | Sun 6/17/18 | 3:30 PM | Clement: 2nd to 4th Avenues | Every Sunday 7 AM to 3:30 PM |
| Mint Plaza Food Trucks | Sat 8/19/17 | 6:00 AM | Sun 8/19/18 | 3:00 PM | Mint Plaza: 5th to Jessie | Monday to Sunday 6 AM to 3 PM each day |
| Fillmore Farmer's Market | Sun 8/27/17 | 7:00 AM | Sun 8/26/18 | 2:00 PM | O'Farrell: Fillmore to Steiner | Every Saturday 7 AM to 2 PM |
| Inner Sunset Farmers' Market | Sun 12/10/17 | 7:00 AM | Sun 12/9/18 | 3:00 PM | Irving Lot 2: 8th to 9th Avenues | Each Sunday, 7 AM to 3 PM |
| Castro Farmers' Market | Wed 3/21/18 | 2:00 PM | Wed 12/19/18 | 9:00 PM | Noe: Market to Beaver | Each Wednesday, 2 PM to 9 PM |
| Divisadero Farmers' Market | Sun 1/21/18 | 8:00 AM | Sun 1/20/19 | 3:00 PM | Grove: Divisadero to Broderick | Each Sunday, 8 AM to 3 PM |
| Mission Community Market | Thu 4/5/18 | 1:00 PM | Thu 12/27/18 | 9:30 PM | 22nd St: Valencia to Mission; Bartlett: 21st to 22nd | Every Thursday 1 PM to 9:30 PM |

Long-Term and Recurring Street Closures

| Event Name | StartDate | StartTime | EndDate | EndTime | Location | Notes |
|--------------------------------|--------------|-----------|--------------|---------|--|--|
| Off the Grid: Minna | Wed 5/31/17 | 10:00 AM | Wed 5/30/18 | 3:00 PM | Minna: 5th to Mary | Each Wed & Friday, 10 AM to 3 PM |
| Clement Street Farmers' Market | Sun 6/4/17 | 7:00 AM | Sun 6/17/18 | 3:30 PM | Clement: 2nd to 4th Avenues | Every Sunday 7 AM to 3:30 PM |
| Mint Plaza Food Trucks | Sat 8/19/17 | 6:00 AM | Sun 8/19/18 | 3:00 PM | Mint Plaza: 5th to Jessie | Monday to Sunday 6 AM to 3 PM each day |
| Fillmore Farmer's Market | Sun 8/27/17 | 7:00 AM | Sun 8/26/18 | 2:00 PM | O'Farrell: Fillmore to Steiner | Every Saturday 7 AM to 2 PM |
| Inner Sunset Farmers' Market | Sun 12/10/17 | 7:00 AM | Sun 12/9/18 | 3:00 PM | Irving Lot 2: 8th to 9th Avenues | Each Sunday, 7 AM to 3 PM |
| Castro Farmers' Market | Wed 3/21/18 | 2:00 PM | Wed 12/19/18 | 9:00 PM | Noe: Market to Beaver | Each Wednesday, 2 PM to 9 PM |
| Divisadero Farmers' Market | Sun 1/21/18 | 8:00 AM | Sun 1/20/19 | 3:00 PM | Grove: Divisadero to Broderick | Each Sunday, 8 AM to 3 PM |
| Mission Community Market | Thu 4/5/18 | 1:00 PM | Thu 12/27/18 | 9:30 PM | 22nd St: Valencia to Mission; Bartlett: 21st to 22nd | Every Thursday 1 PM to 9:30 PM |

SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Procedures for preparation and submittal of Progress Payment Requests.
- B. Related Sections:
 - 1. Section 00 72 00 – General Conditions, Article 9, Payments and Completion.
 - 2. Section 00 41 00 – Bid Form.
 - 3. Section 01 29 73 – Schedule of Values.
 - 2. Section 01 32 16 – Construction Progress Schedule.

1.2 SCOPE

- A. Payment for the various items of the Schedule of Bid Prices, as further specified herein, shall include all compensation to be received by Contractor for furnishing all tools, equipment, supplies, and manufactured products, and for all labor, operations, overhead and profit, applicable taxes, and incidentals appurtenant to the items of Work being described, as necessary to complete the various items of work as specified and as shown on the Drawings. No separate payment will be made for any item that is not specifically set forth in the Schedule of Bid Prices, and all costs therefore shall be included in the prices named in the Schedule of Bid Prices for the various appurtenant items of Work.
- B. Contract Prices shall be deemed to include all bonds and insurance, all appurtenances necessary to complete the required Work, including all costs for compliance with the regulations of public agencies having jurisdiction, including Health and Safety Requirements of the California Division of Industrial Safety and the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA), and including all costs for loss or damage arising from the Work, or from action of the elements, for any unforeseen difficulties which may be encountered, and for all risks of every description connected with the prosecution of the Work until Project Completion, also for all expenses incurred in consequence of the suspension or discontinuance of the Work as provided in the Contract.
- C. Except as otherwise expressly stipulated in the Contract Documents, no payment shall be made for materials stored on or off site, and for materials not yet incorporated into the Work on site.
- D. Neither the payment of any estimate nor of any retained percentage shall relieve Contractor of its obligation to make good all defective work or material.

1.3 BASIS OF PAYMENT

- A. Unit Price Work
 - 1. The City shall determine the quantities of Work to be paid for any item for which a unit price is fixed in the Contract.
 - 2. Unless otherwise provided, determination of the number of units of Work so completed shall be based, as far as practicable, on the actual measurement or count made by the City Representative of the Work satisfactorily completed within the prescribed limits.

3. Measurement and computations shall be made by methods as the City may consider appropriate for the class of Work measured.
 4. Should the actual quantities of Work performed under any unit price be greater or less than the estimated quantity stipulated on the Schedule of Bid Prices, or if an item of Work is deleted, the final Contract cost shall be adjusted by Change Order to reflect the actual quantities and actual costs including fixed costs for unit price items.
- B. Lump Sum: When the estimated quantity for specific portions of Work is not indicated on the Schedule of Bid Prices and unit is designated as lump sum, payment will be on a lump sum basis for Work satisfactorily completed as set forth in the Specifications and shown on the Drawings.
- C. Monthly payment requests shall be based upon information developed at monthly Application for Payment meetings and shall be prepared by Contractor. The approved Schedule of Values will be the basis for Contractor's payment requests.
1. No partial progress payment shall be made to Contractor until all cost information requested by the City is submitted and reviewed.
 2. Submission of a progress schedule update in accordance with Section 01 32 16 for the same period of the progress payment application shall be a condition precedent to making the progress payment application.

1.4 APPLICATION AND SCHEDULE PROCEDURES

- A. On the 25th of each month submit an itemized Application of Payment to the City Representative by email with all required supporting documents attached in PDF format or in other Windows file formats (except Certified Payrolls) covering the Work completed as of the date of the Application for Payment.
1. Submit a progress schedule update with each Application for Payment.
 2. List each authorized Change Order executed prior to date of submission by Change Order Number and description, as for original items of work.
 3. When the City requires substantiating data, Contractor shall submit suitable information with cover letter identifying Application of Payment number and date, line item by number and description.
 4. Submit Certified Payrolls through the City's internet-based Project Reporting System. Refer to Paragraph 9.03M of the General Conditions.
 5. Specify the desired Method of Payment, either electronic funds transfer or check.
- B. Progress payments for the work performed under this Contract will be made in the manner described in Paragraph 9.03 of the General Conditions.
1. Progress payments will be based upon progress estimates by Contractor and verified by the City of the actual physical progress of the work, utilizing the Schedule of Values approved by the City.
 2. Progress payments will be made on a monthly basis and no mid-monthly payments will be made regardless of the value of the work and material incorporated prior thereto.
 3. Contractor shall certify its estimate of the quantities of the work completed, contained in the monthly progress payment estimate, by signing each such estimate prior to its submission.
 4. Contractor shall submit Project Record Drawings as specified below under article "Project Record Drawings."
 5. The City will make final determination if agreement cannot be reached on Contractor's progress payment request.
- C. The City shall issue payments to Contractor through the City's electronic payment system. Contractor acknowledges and agrees to receive payment electronically through

this system. Contractor shall not be entitled to any additional cost or charge under this Contract for using or failing to use the electronic payment system. Nor shall Contractor be entitled to any additional cost or charge for delays or failures of the electronic payment system to complete a payment transaction.

- D. Pursuant to California Public Contract Code Section 22300, Contractor may substitute securities for any money withheld by the City to insure performance under the Contract. Said securities shall be in a form and of a type acceptable to the City.
1. At the request and expense of Contractor, securities equivalent to the amount withheld shall be deposited with City Controller or with a state or federally chartered bank as the escrow agent, who shall return such securities to Contractor upon satisfactory completion of the Contract.
 2. Securities eligible for investment under Public Contract Code Section 22300 shall be limited to those listed in Section 16420 of the Government Code and to bank or savings and loan certificates of deposit.
 3. Contractor shall enter into escrow agreement with City Controller for in-lieu construction payment retention provided by City, specifying amount of securities to be deposited, terms and conditions of conversion into cash in case of Contractor's default, and termination of escrow upon completion of Contract.
 4. Contractor shall be beneficial owner of securities substituted for monies withheld and shall receive any interest thereon.

1.5 PROGRESS ESTIMATES

- A. Upon receiving Contractor's monthly progress payment application, the City will review progress breakdown and make adjustments to percent of completion of each item of Work.
1. Monthly progress payments will be made based on the total value of Work items completed or partially completed, as determined by the City with participation of Contractor.
 2. Accumulated retainage will be shown as separate item in payment summary.
- B. After approving the finalized Progress Payment Report, the City will commence payment processing electronically. The payments will be made in accordance with Contractor's specified Method of Payment.

1.6 PROJECT RECORD DRAWINGS

- A. If requested by the City Representative, submit original and one (1) copy of the Project Record Drawings (As-Builts) with the monthly progress payments to the City Representative in the field for review. The original Record Drawings will be returned to the Contractor within fourteen (14) calendar days of submittal. The Contractor shall update the Record Drawings based on the City Representative's comments and resubmit the drawings for record. If the Record Drawings are not kept current or not furnished when specified herein, Progress Payments and if necessary the Final Payment will be withheld.

1.7 ELECTRONIC CERTIFIED PAYROLLS

- A. In accordance with the requirements of Paragraph 9.03M of the General Conditions, Contractor shall submit certified payrolls to the City electronically via the City-selected Project Reporting System ("PRS"), an internet-based program. This submittal is required for Progress Payments as specified in this Section 01 20 00 - Price and Payment Procedures. In addition to data relating to weekly payroll information, the Contractor, Subcontractors and Suppliers shall enter in appropriate fields of the PRS information regarding new hires, including name and date hired of each new employee.

PART 2 – PAYMENT SCHEDULE

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 21 00

ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Allowances and procedures for doing allowance work.

1.2 PROJECT CONDITIONS

- A. Allowances shall be done only when and as directed in writing by the City Representative.
- B. Allowances shall cover the actual direct cost to Contractor of labor, materials and equipment delivered and installed at the site, required taxes and fees, less applicable trade discounts.
- C. Contractor's costs for required on-site and off-site storage and security, loading and unloading, handling at the site, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in Contractor's Total Bid Price and not in the allowances unless indicated otherwise.
- D. The amount given on Schedule of Bid Prices under each allowance item shall be the amount of funds set aside for each allowance. Said amounts shall be included in Contractor's Total Bid Price on the Schedule of Bid Prices.
- E. Whenever costs are more than or less than allowances, the Contract cost will be adjusted by change order based on the difference between (1) actual costs and the allowances, and (2) changes in Contractor's costs. Contractor shall identify allowance item under which work is done on Contractor's progress schedule and application for payment.
- F. Contractor's mark up for overhead and profit on allowance work shall be limited to 5%.

PART 2 - SCHEDULE OF ALLOWANCES

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 - General

1.1 SUMMARY

- A. Section Includes: General procedural requirements for changes, modifications, and extras.
- B. Related Sections:
 - 1. 00 72 00 – General Conditions, Article 6
 - 2. 01 20 00 – Price and Payment Procedures: Application Procedures
 - 3. 01 31 13 – Project Coordination: Requests for Information
 - 4. 01 33 00 – Submittal Procedures: Construction Schedule
 - 5. 01 78 39 – Project Record Documents

1.2 MINOR CHANGES

- A. Clarifications: The City will advise of minor changes in the Work not involving an adjustment to Contract Sum or Contract by issuing written interpretations or clarifications of the Contract Documents as the City deems necessary such as supplemental instructions on Request for Information (RFI) Form or by a written field order by the City Representative.
 - 1. Refer to Section 01 31 13 – Coordination for procedures for requesting information or clarifications on Contract Documents.
 - 2. Pursuant to Paragraph 6.03, Change Order Requests and Proposed Change Orders, of the General Conditions, such written interpretations and clarifications shall be binding on the City and Contractor. Promptly execute the work required by the City's written interpretation or clarification.
- B. Notification: If Contractor believes that a written interpretation or clarification justifies an adjustment in the Contract Sum or Time, submit to the City Representative a request for Change Order therefore before beginning the work required by the written interpretation or clarification or within seven calendar days from the date of the City's response.

1.3 DOCUMENTATION

- A. Document each quotation for a change in cost or time with sufficient data to allow evaluation of the quotation.
- B. On request and within a reasonable period of time, provide additional data to support computations:
 - 1. Quantities and type of products.
 - 2. Labor breakdown by trade classification, wage rates, and estimated hours.
 - 3. Equipment breakdown by type, size, rental rates, and equipment hours.
 - 4. Taxes, insurance and bonds.
 - 5. Mark-ups, including overhead and profit.
 - 6. Justification for any change in Contract Time, including a schedule analysis identifying critical progress schedule activities delayed by the PCO.
 - 7. Credit for deletions from Contract and work estimates of subcontractors, similarly documented.
- C. Support each claim for additional costs, and for work done on a force account basis, with additional information:

1. Origin and date of claim.
 2. Date of authorization for extra work by the City Representative as per Force Account Change Order issued to Contractor.
 3. Dates and times work was performed, and by whom.
 4. Time records and wage rates paid.
 5. Invoices and receipts for products, equipment, and subcontracts, similarly documented.
- D. Failure to properly document or provide supporting documents related to additional work or credit of a claim shall invalidate such claims or upon decision of the City, proceed with the City's best cost estimate of disputed additional work or credits.
- E. Documentation, data preparation, and administration of change orders shall be considered as incidental work and no additional payment will be made therefore.

1.4 CHANGE PROCEDURES

- A. The City may issue a Proposed Change Order (PCO) Memorandum which includes a detailed description of a proposed change with supplementary or revised Drawings and Specifications, and a change in Contract Time for executing the change if necessary.
1. Prepare and submit a cost proposal estimate to the City Representative for approval upon receiving a PCO within the number of calendar days per General Conditions Paragraph 6.03D, furnishing a complete breakdown of costs of both credits and extras, itemizing materials, labor, taxes, and mark-up for overhead and profit. Subcontract work shall also be indicated on the same form as for Contractor's breakdown.
 2. Limit Contractor's and subcontractor's mark-ups to the maximum percentages as specified for force account work under Paragraph 6.06, Cost of the Change Order Work, of the General Conditions. Contractor's mark-up on work performed by a subcontractor shall be in accordance with Paragraph 6.06C of the General Conditions. No additional payment will be made by reason of performance of additional work by a subcontractor.
 3. All requests for time extensions pursuant to Paragraph 7.02, Delays and Extensions of Time, of the General Conditions or claims for damages for delay caused by the City's processing of Change Orders will be reduced by the additional time in excess of that allowed for Contractor to submit a PCO cost proposal as provided herein, provided that the activity was shown on the critical path on the base line schedule.
 4. Submit additional data as specified under Article "Documentation" as requested by the City Representative.
 5. The City will review Contractor's cost proposal estimate and will negotiate the final terms of Change Order with Contractor.
 6. Upon approval of PCO by the City, the City will issue Change Order directing Contractor to proceed with the change in the work.
- B. Contractor may propose a change by submitting a request for a PCO number to the City, describing the proposed change and its full effect on the Work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation and a statement describing the effect on the Work schedule and operations.
1. Document any requested substitutions in accordance with Section 01 25 13.
 2. Contractor's RFI submittal shall not constitute a request for change.

1.5 UNILATERAL CHANGE ORDER

- A. When time does not allow for the Change Order to be negotiated through the PCO process, or when the City and Contractor are unable to agree on the cost or time required to

complete the change in the Work described in a PCO, the City may issue a document instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order based on the City's estimate of costs, if any.

- B. The document will describe changes in the Work, and will indicate the City's determination of any change in cost.
- C. Promptly execute the change in Work.
- D. If Contractor disagrees with the City's estimate of cost and time or other conditions of a Unilateral Change Order, Contractor shall submit a written protest in accordance with Paragraph 6.05, Unilateral Change Orders, of the General Conditions within 15 calendar days of its receipt and before proceeding with the required work.
 - 1. After the written protest has been filed and within 7 calendar days of completing said disputed work, submit a notice of potential claim for the cost differential between Contractor's actual cost and the City's estimate included in the Unilateral Change Order.
 - 2. Within 30 calendar days of the date of said notice of potential claim submit to the City Representative a claim with written documentation as specified under Article "Documentation".

1.6 FORCE ACCOUNT WORK

- A. All Force Account work shall be witnessed, documented and approved in writing by the City on the day that the work is performed. No Force Account work that is not so reported to the City Representative will be paid by the City. The Contractor shall notify the City Representative in writing at least 24 hours in advance of its schedule before proceeding with the Force Account work.
- B. Force account charges, a definite price for which has not been agreed on in advance, shall be recorded daily upon a Daily Force Account Report Form obtained from the City Representative.
 - 1. Contractor or authorized representative shall complete and sign Form.
 - 2. The Form shall provide an itemized account and supporting data and shall be countersigned by the City Representative.

1.7 EXECUTION OF CHANGE ORDERS

- A. Execution of Change Orders: The City will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.
- B. The City shall have the right to audit all records in possession of Contractor relating to activities covered by Contractor.

1.8 CORRELATION OF CONTRACTOR SUBMITTALS

- A. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
- B. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust time for other items of work affected by the change, and resubmit.
- C. Promptly enter changes in Project Record Documents.

1.9 CONTINUING WORK DURING DISPUTES

- A. The Contractor shall carry on and prosecute the work and maintain the progress schedule during all disputes and disagreements with the City. Time is of the essence. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as the City Representative and the Contractor may otherwise agree in writing.
- B. The Contractor shall notify the City Representative at the beginning of each single day, shift, or phase before performing the disputed work. Failure to notify the City Representative at the beginning of each day, shift or phases will result in no verification of any work performed under dispute or disagreement. The Contractor and the City Representative shall agree upon the size and number of manpower, equipment, and materials for documentation at the end of every day, shift or phase until resolution or completion of the disputed work.
- C. Submit a Disputed Work Report Form on the day that work is performed if the City and Contractor disagree as to the City's determination of said work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 29 73
SCHEDULE OF VALUES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Submittal requirements, coordination, review and acceptance of the schedule of values for evaluating progress payment applications.
- B. Related Sections:
 - 1. 00 72 00 – General Conditions, Article 9, Payments and Completion
 - 2. 01 20 00 – Price and Payment Procedures

1.2 SUBMITTAL REQUIREMENTS

- A. Submit within 15 calendar days after the Notice to Proceed date but in no event later than 7 days before Contractor's initial application for payment, a schedule of values covering the lump sum items.
- B. The schedule of values shall consist of a detailed cost breakdown of Contractor's Bid covering the Lump Sum Work and Lump Sum Items of Work by classification, in accordance with the Construction Specifications Institute's MasterFormat® (2010 Update) as represented by the Specifications Table of Contents.
- C. The specific format and detail shall be acceptable to the City Representative for estimating and evaluating progress payments, as follows:
 - 1. An unbalanced schedule of values providing for overpayment of Contractor on items of work that would be performed first will not be accepted.
 - 2. The sum of the individual costs listed in the schedule of values shall equal the lump sum price bid under the Bid Item in the Schedule of Bid Prices for the Work activity.
 - 2. Provide breakdown in sufficient detail to facilitate continued evaluation of progress payment applications.
 - 3. Show the total cost of each item of work including all labor, material, equipment, fixed cost elements, incidental expenses, and overhead and profit.
 - 4. Overhead and profit shall not be listed as separate items.
 - 5. Identify separate line items for temporary items, mobilization, final cleaning, operations and maintenance manuals, and start-up, adjusting and testing.
 - 6. Coordinate the preparation of the schedule of values with Contractor's progress schedule.

1.3 REVIEW AND ACCEPTANCE

- A. The City Representative will review and return Contractor's schedule of values with comments within 7 days of its receipt. Contractor shall make corrections requested by the City Representative and resubmit for approval within 3 days.
- B. Final acceptance by City Representative shall indicate only consent to the schedule of values as a basis for preparation of applications for progress payments, and shall not constitute an agreement as to the value of each indicated item.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 31 13
PROJECT COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Provisions of coordination of the Work of the Contract and requesting clarifications and interpretations of the Contract Documents.
- B. Related Sections:
 - 1. 01 31 19 – Project Meetings.
 - 2. 01 33 00 – Submittal Procedures.

1.2 GENERAL COORDINATION

- A. Contractor shall be responsible for all project coordination.
- B. Coordinate scheduling, submittals, and work of various sections to assure efficient and orderly sequence of installation of interdependent construction elements.
- C. Coordinate the requirements for operation and maintenance data with suppliers and manufacturers of equipment and systems and the City to ensure timely delivery of required submittals in accordance with Section 01 33 00.

1.3 SUBCONTRACT COORDINATION

- A. Coordinate the Work and do not delegate responsibility for coordination to any Subcontractor.
- B. Anticipate the interrelationship of all Subcontractors and their relationship with the Work.
- C. Resolve differences or disputes between Subcontractors, and other contractors concerning coordination, interference, or extent of work between sections of the specifications including assigned Contract work. Contractor's decisions, if consistent with the Contract Document requirements, shall be final.
- D. Coordinate the work of Subcontractors so that their portions of the work are performed in a manner that minimizes interference with the progress of the Work.

1.4 ADMINISTRATION

- A. General: Prepare a written memorandum on required coordination activities. Include such items as required notices, reports and attendance at meetings. Distribute this memorandum to each trade performing work at the project site. Prepare similar memorandum for separate contractors where interfacing of their work is required.
- B. Coordination Meetings: Conduct general project coordination meetings with Subcontractors at least weekly at regularly scheduled times convenient for all parties involved. These meetings are in addition to specific meetings held for other purposes, such as regular project meetings and special preinstallation meetings. Request representation at each meeting by every party currently involved in coordination or planning for the work of the entire project. Keep the City informed about coordination meetings. Conduct meetings in a manner which will resolve coordination problems.

Record results and minutes of each meeting and distribute copies to everyone in attendance and to the City.

- C. Submittals shall be submitted to the City using the City provided Submittal Control Form using the City numbering system. Requests for Information (RFI) shall be submitted to the City using the City RFI Form and numbered sequentially. All other Contract deliverables shall be submitted via sequentially numbered and dated transmittal. After Notice to Proceed, all other Contract required written communication shall be provided to the City via sequentially numbered letter.

Examples of communication to be provided via sequentially numbered letter include but are not limited to: notice of unforeseen or differing conditions, change order requests, notification before proceeding with force account work, notice of potential, anticipated, and/or actual delay, notification that Contractor considers work substantially complete and request for inspection, notification that Contractor considers work complete and request for certificate of acceptance, designation of responsible competent person, notice of potential claims, and contract claims.

All written communications including but not limited to Submittals, RFIs, transmittals, and letters shall include the Contractor's wet signature. Such written communications may be transmitted as attachments via email to the City Representative, provided wet signature originals are received by the City immediately following and no later than 7 calendar days from date of email.

1.5 REQUEST FOR INFORMATION (RFI)

- A. Requirement: It is Contractor's responsibility to review Contract Documents a minimum of 30 days in advance of the work to be executed, and to request for information so that the City will have sufficient time to respond to Requests for Information prior to the start of actual construction of that part of the Work to which the RFI relates.
- B. Form:
1. When an interpretation or clarification of the Contract Documents is required from the City, make the request on Form obtained from the City Representative.
 2. Fill in all applicable information on the form.
 3. Use one form for each request; limit the subject to one design discipline to expedite reply. Attach supplementary information where necessary.
 4. The City will reply or give summary of reply on the same form and include supplementary information where necessary.
 5. The completed form shall be the written record of each RFI.
 6. Do not use any other RFI form on this Project.
- C. Uses:
1. The RFI form shall be used for interpretation or clarification of the Contract Documents only.
 2. Do not use the RFI form for the following; the City will not reply and will reject the RFI:
 - a. Product or material substitution.
 - b. Questions relating to construction means, methods, techniques, sequences, procedures or safety precautions. (These are Contractor's responsibilities exclusively.)
 - c. Questions relating to construction schedule, coordination between trades, or division of work among subcontractors. (These are also Contractor's responsibilities exclusively.)
 - d. Questions on contract administration procedural matters, unless they require interpretation or clarification of the Contract Documents.

- e. Dimensions or quantities which are shown on the Contract Documents, or which can be measured from the building, or calculated from the information contained in the Contract Documents.
 - f. Confirmation of interpretations or clarifications previously provided by the City.
 - g. The City will reject requests for interpretations or clarifications of the Contract Documents which can reasonably be derived from a review of the Contract Documents.
- D. Reply:
- 1. The City will endeavor to reply to all RFI's promptly, generally no later than 15 days from the day received.
 - 2. When an RFI involves a complex subject, extensive research or development, or substantial input from other governmental agency, the City will inform Contractor and request additional time to prepare the reply. Contractor shall cooperate and agree to a reasonable time extension.
 - 3. The reply shall be a clarification or an interpretation of the Contract Documents; the reply is not an authorization of change in the Contract Sum or Time.
 - 4. Such written interpretation or clarification will be binding on Contractor and City. If Contractor believes that a written interpretation or clarification justifies an adjustment in the Contract Sum or Time, then Contractor shall make a written claim therefore as provided in Paragraph 6.03, Change Order Requests and Proposed Change Orders, of the General Conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 31 19
PROJECT MEETINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements and procedures for pre-construction and other project meetings to ensure quality of work.

1.2 GENERAL

- A. The City Representative will arrange project meetings after consultation with Contractor and will inform the Contractor of the meeting time and location.
- B. The Contractor's attendance is required at all meetings.
- C. The City Representative will be responsible for taking the meeting minutes and providing the Contractor with a copy. The Contractor shall duplicate them and distribute the meeting minutes to the other participants of the meeting. There will be a fifteen-day limit for protesting items recorded in the minutes.

1.3 PRE-CONSTRUCTION CONFERENCE

- A. Prior to commencement of Work, the City Representative will schedule and conduct a preconstruction conference.
- B. Contractor shall be prepared to review and discuss the construction schedule and sequence of operations. The conference will be held at a time and location selected by the City Representative.

1.4 PROGRESS MEETINGS

- A. The City Representative will schedule, prepare agenda, and administer meetings throughout progress of the Work at weekly intervals or more frequently, as required by the City Representative.
- B. Attendance Required: Job superintendent, major Subcontractors and suppliers, as appropriate to agenda topics for each meeting.
- C. Location: Project field office, unless otherwise notified.
- D. Contractor shall provide a 3-Week Look Ahead Schedule.

1.5 PRE-INSTALLATION CONFERENCES

- A. When required in individual specification Sections, Contractor shall convene a pre-installation conference at work site prior to commencing work of the Section.
- B. Contractor shall require attendance of parties directly affecting, or affected by, work of the specific Specification Section.
- C. Contractor shall notify City Representative four days in advance of meeting date.

- D. City Representative will prepare agenda, preside at conference, record minutes, and distribute copies within two days after conference to participants, with two copies to Contractor.
- E. Contractor shall review conditions of installation, preparation and installation procedures, and coordination with related work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 32 16

CONSTRUCTION PROGRESS SCHEDULES - CPM

PART 1 - GENERAL

1.1 SUMMARY

- A. Scheduling of Work under the Contract shall be performed by Contractor in accordance with requirements of this Section.
 - 1. Development of Schedule Submittals shall employ computerized Critical Path Method (CPM) scheduling.
 - 2. The Baseline Schedule and Project Schedule Updates shall be cost and resource loaded based on the Schedule of Values as approved by the City.

1.2 RELATED SECTIONS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-01 Specification Sections, apply to this Section.

1.3 GENERAL REQUIREMENTS

- A. CPM Schedule Submittals shall use the Primavera P6 software, or approved equal. Contractor shall submit the Primavera Contractor version of XER file for all reviews, including but not limited to, the Baseline schedule, Progress schedule, Recovery schedule, Notices of Delay, Time Impact Analysis, and all Claims.
- B. Contractor is required to involve all subcontractors in the development, implementation, and updating process of its schedule.
- C. Acceptance or approval of the CPM Schedule Submittals is of general nature only. Failure by Contractor to include any element of work required for the performance of this contract shall not excuse the Contractor from completing all work required within any applicable completion date, notwithstanding the City approval of the CPM diagrams. Items missing from the schedule after City approval are assumed to be incidental work, and at not cost to the city the Contractor may submit a revised schedule to include these items. The revised schedule is subject to review and approval by the City as described in "Revised Schedule" clause. No extension of time will be granted because of errors or omissions on the schedule. It is Contractor's responsibility to incorporate all necessary activities to cover the work required by the Contract Documents.
- D. The Baseline Schedule and analysis when approved by the City shall constitute the official project work schedule throughout the construction period. No alteration of the logic, duration of activities, etc. will be allowed without the approval of the City.

1.4 SUBMITTALS

- A. The Baseline Schedule, Progress Schedule Update and reports prepared by Contractor shall be used for planning, organizing, directing, controlling, and reporting all work required by the Contract Documents.
- B. The CPM Schedule Submittals shall be at a minimum of three (3) hard copies and a CD-ROM in a case, or other acceptable digital format. Digital submittal shall be the original and editable file with a .xer file extension.

- C. The timely submission of the following is required:
1. Digital copy and three (3) hard copies of the Baseline Schedule fourteen (14) calendar days prior to commencing the Work of the Contract;
 2. Progress Schedule Update including written narrative as per specifications on a monthly basis;
 3. Activity Schedule on a weekly basis at the weekly progress meetings;
 4. Revised schedule within ten (10) working days when requested by the City;
 5. Resubmittal of any rejected Baseline Schedule, Progress Schedule Update, or revised schedule within five (5) working days after receipt of the returned schedule marked "RESUBMIT," if necessary;
 6. Daily Construction Reports, per section 1.11 of this specification.
- D. Failure to comply with timely submission of any schedule will be just cause to withhold the progress payment of any portions thereof by the City and will trigger liquidated damages listed in Section 00 73 02.
- E. Schedule Reviews: Unless otherwise stated, the City will review and respond to scheduling submittals within ten (10) working days after the submittal is received. If the schedule is not accepted, Contractor shall re-submit within five (5) working days after receipt of the City's response if changes or additional information is requested. This review and resubmittal cycle will repeat until the schedule has been accepted by the City.

1.5 PLAN OF OPERATION

- A. At the Pre-Construction Conference, the Contractor shall submit for the City's review a Plan of Operation for the first 60 days of the Contract commencing after the Notice to Proceed. This schedule shall serve the project schedule needs until the Baseline Schedule has been accepted. Sufficient detail shall be included for the identification of submittals, permits, equipment procurement, construction activities.

1.6 CPM SCHEDULE SUBMITTALS

- A. The CPM Schedule shall be prepared by Contractor using the precedence method of network diagramming.
- B. Time Scaled Graphic network diagram showing the critical path shall not be larger than 24" x 48".
- C. Activity Description: Each Activity shall have a unique narrative description consisting of a work function and location.
- D. All submittals that require City review and approval shall be incorporated in the CPM Schedules.
- E. All Activities shall have succeeding Activities except Work completion. At least one successor shall be a FF or FS relationship.
- F. Contractor shall disclose in detail how weather delays, as specified in the General Provisions of the Contract, will be incorporated into the Baseline Schedule. Contractor must keep a current "weather delay registry" that would be reviewed and agreed to by both parties during the Monthly Schedule Update submittal process.
- G. Contractor shall furnish the following computer-generated reports with the project identification, schedule and run date, and sort-type on the first page of each report.

1. List of all activities sorted by total float including ES, LS, EF, LF, and Total Float duration.
 2. List of all activities sorted numerically including ES, LS, EF, LF, and Total Float duration.
 3. List of all activities sorted numerically including ES, LS, EF, LF, Total Float duration, and Predecessor/Successor information of precedence network.
 4. List of all activities sorted by responsibility including ES, LS, EF, LF and Total Float duration.
 5. List of activities on the critical path sorted numerically including ES, LS, EF, and LF.
 6. List of near critical activities (activities with total float less than ten (10) working days) sorted numerically including ES, LS, EF, and LF.
- H. All CPM activity time duration in working days shall be specified in five (5) day work weeks excluding holidays to be identified by Contractor, unless specifically allowed by the Contract.
- I. A maximum of fifteen (15) days duration shall be given to each CPM construction activity. Any activity in excess of the fifteen (15) days shall be broken down in detail so that each detail activity will not exceed the fifteen (15) days maximum.

1.7 BASELINE SCHEDULE

- A. Fourteen (14) calendar days prior to start of Work, Contractor shall furnish a Baseline Schedule showing in detail the proposed sequence of activities. The City will not process any progress payments until the required schedule is submitted and accepted by the City.
- B. The Baseline Schedule shall be calendar-based, using a precedence method network diagram in the CPM format indicating the critical path for the execution of the work utilizing the entire contract time.
- C. Baseline Schedule shall include the following tabulated information for each Activity:
1. Activity beginning and ending event numbers
 2. Estimated duration in working days
 3. Trade code (responsibility code including Contractor, all Subcontractors, Supplier, and Owner)
 4. Early start date (ES) and early finish date (EF) (calendar dated).
 5. Late start date (LS) and late finish date (LF) (calendar dated).
 6. Print the total and free float for each activity.
- D. The network diagram(s) level of detail shall include but not be limited to:
1. Required approvals, permits, notices, etc. necessary for Contractor's execution of the proposed work.
 2. Preparation of shop drawing and working drawing submittals.
 3. Administrative activities, procedures, and subsidiary actions that will affect the critical path, such as submittal and review of shop drawings, substitutions, alternative construction methods or alternative designs, and submittal to and review by the City and all utility companies involved including a schedule for coordination of all utility relocation work necessitated by Contractor's operations.
 4. Procurement of materials and equipment including ordering, fabrication, and delivery.
 5. Construction activities and sub activities tasks, including all activities shown on the Schedule of Values.
 6. Order and delivery of long lead items.

7. Approvals and permits required by regulatory agencies or other third parties.
 8. Schedules for Subcontractor's Work, including engineering and design services.
 9. Actual tests, submission of test reports and approval of test results.
 10. Testing, training and assistance required under the Contract.
 11. Punchlist and final cleanup.
 12. Scheduled completion date shall be as specified within the time allowed.
- E. The Baseline Schedule shall provide a practical schedule of activities performed within the specified contract completion time and within the contract bid price to complete the Work. A schedule extending beyond the contract completion date will not be accepted.
- F. Contractor shall incorporate all Milestones into the Baseline Schedule. These include, but are not limited to Substantial Completion and Milestones. These are unique zero (0) duration Activities containing corresponding dates and logic ties. Designate these Activities as start or finish Milestones. If necessary, utilize constraints of "start on or after" or "finish on or before" for Contract requirements. The use of float suppressing date constraints including "start on," "finish on," "mandatory start," and "mandatory finish" are not allowed.
- G. In preparing the Baseline Schedule, Contractor shall consider the nature and complexity of each submittal and shall allow ample time for review, revisions or corrections. Under no circumstances will an extension of time be given for any submittal for which a re-submittal is required and a re-submittal time was not included in the Baseline Schedule.
- H. Time impacts resulting from submittals and re-submittals of shop drawings are Contractor's responsibility.
- I. All constraints, dates, and lags will require the City's approval. All activities shall have succeeding activities except project completion. Contractor shall demonstrate the necessity of having any dummy activities.
- J. Negative float will not be allowed on the Baseline Schedule on the initial submittal. Initial Baseline Schedule with negative floats shall be rejected immediately. Contractor shall provide sufficient manpower (multiple crews) and maximize working hours (extended hours and /or weekend work) to perform the required work within the specified completion time and contract bid price.
- K. The Baseline Schedule's critical activities shall not exceed fifteen percent (15%) of the total number of activities. Critical activities are those which have the least float.
- L. Submit a written narrative with the Baseline Schedule that discusses basic assumptions, productivity and installation rates, construction staging plans, maintenance of traffic quantities, manpower and crew development, construction equipment planned, and other element related to developing the schedule.
1. Explain Activity durations and describe Contractor's approach for meeting Contract Milestone dates. Include as a minimum: basis and assumptions used in preparing the schedules, including crew sizes, equipment requirements, and anticipated delivery dates; restraints; critical path activities; production rates; Activities requiring overtime or additional shifts; holidays, City-specific events; potential problem areas; permits; coordination; required with SFMTA, railroads, utilities and other parties; and long lead delivery items requiring more than thirty (30) days from order to delivery. Identify Work items that may be expedited by use of overtime or additional shifts. Identify and explain sequencing and other constraints such as manpower, material and equipment.

2. All constraints, dates, and lags will require City's approval and shall be clearly identified and explained in the narrative.
3. Description and analysis of the Critical Path.

1.8 PROGRESS SCHEDULE UPDATE

- A. The Baseline Schedule shall be updated monthly by Contractor and submitted to the City for review as a Progress Schedule Update. It shall not have any change in the logic of the network or in the duration of activities.
- B. Each Progress Schedule Update shall continue to show all work activities including those already completed. Computer calculations of the updated schedule will be made starting from the current date to the end of the project. Work completed shall be shown with actual start and finish dates for each activity. Work in progress shall be shown with the actual start date and the percentage completed for each activity.
- C. Progress Schedule Updates shall include the requirements stated above and the additional requirements:
 1. Include resource requirement as required.
 2. Actual start and completion dates of completed activities.
 3. Actual start dates and percent completion of activities in progress.
 4. Print the total and free float for each activity.
 5. Project percentage completed.
- D. The Progress Schedule Update shall, at all times, represent the actual history of accomplishment of all activities as well as Contractor's current projected plan for orderly completion of the work. Contractor shall, at monthly intervals, evaluate work progress with the City by reviewing the actual accomplishments since the previous update.
- E. In conjunction with each monthly Progress Schedule Update, Contractor shall submit to the City a written narrative report of the status of the Project as specified herein.
- F. Contractor's monthly written narrative of the critical path analysis shall include the following:
 1. Description of critical path and progress on Contract Milestones with explanations for any lack of work on critical path activities planned to be performed during last month;
 2. Anticipated completion time of entire work;
 3. Description of problem area;
 4. Current and anticipated delaying factors and their impacts;
 5. Explanation of corrective action taken or proposed to bring project back on schedule if delays have occurred;
 6. Description of critical activities scheduled to be performed next month;
 7. Discuss the incorporation of any approved Change Orders. Identify a proposed schedule Change Orders submitted during the last reporting period.
 8. Status of major material and equipment procurement.
- G. Progress Schedule Update reports, and the information contained therein, shall not be construed as claims, notice of claims, notice of delay, or requests for changes or compensation.
- H. Actual start and finish date and Work in progress shall not be automatically updated by default mechanisms that may be included in CPM scheduling software systems. Actual start and finish dates shall be updated manually and shall represent actual history and

match daily reports. Work in progress shall be shown with the actual start date, the remaining duration will represent the current expected completion date, and the physical percent completed for each activity. The remaining Activities should represent Contractor's current projected plan for orderly completion of the Work.

- I. This Progress Schedule Update shall not have any change in the logic of the network or in the duration of activities.
- J. Contractor during the course of the construction desires to make changes in its method of operating and scheduling, it shall notify the City in writing stating the reasons for the change. Any change to the schedule in the logic, order, or sequence of work, duration activities, etc. shall constitute a revised schedule. A revised schedule will not be in effect until it is approved by the City.
- K. If a COR for a schedule adjustment in the Contract duration is approved, the logic revisions and their relationship to other activities shall be reflected on the Progress Schedule Update.
- L. The Progress Schedule Update for the same period as the Application for Payment shall be submitted showing all work completed as of that date as a precedent to making progress payment Applications.

1.9 ACTIVITY SCHEDULE

- A. Contractor shall present and discuss the Activity Schedule at the progress meetings, or as directed by the City.
- B. The Activity schedule shall be in the bar chart format and include the following:
 - 1. Completed activities for last week.
 - 2. Scheduled activities for the succeeding two weeks.
 - 3. Correlation to appropriate Baseline Schedule including Activity ID, description, start and finish, duration, responsible party performing the Work and pertinent remarks on Activity status.

1.10 REVISED SCHEDULE

- A. Contractor shall submit to the City a revised critical path schedule with a description and justification of the changes within ten (10) working days whenever a schedule revision is requested or any of the following occurs:
 - 1. A change order affects the completion date or the sequence of the activities;
 - 2. Progress of any critical activity falls significantly behind schedule;
 - 3. Delay on a non critical activity changes the course of the critical path; or
 - 4. Contractor elects to change any sequence of activities affecting the critical path.
- B. The revised schedule shall be submitted in writing to the City Representative for review and approval. The submission of a revised schedule shall not relieve the Contractor of the responsibility for the notification required by Section 6.22H.2.d of the San Francisco Administrative Code and as required by subparagraph 7.02.D – Notice of Delay of the General Conditions.

1.11 DAILY CONSTRUCTION REPORTS

- A. On a daily basis, Contractor shall submit to the City a Daily Construction Report for each working day, including weekends and holidays, when worked. Include in report:

1. Project name and Contract number
 2. Contractor's name and address
 3. Weather, temperature, and any unusual site conditions.
 4. Brief description and location of the day's scheduled activities and any special problems and accidents, including Work of Subcontractors. Descriptions shall be referenced to CPM scheduled activities.
 5. Worker quantities, names, and labor classifications for its own Work force and for Subcontractors of any tier.
 6. Equipment, other than hand tools, utilized by Contractor and Subcontractors by description and number.
- B. Failure to submit a copy of the Daily Construction Report by the end of the next working day will result in an assessment of \$100.00 for liquidated damages per report to be deducted from the Progress Payment.

1.12 LIQUIDATED DAMAGES

- A. Failure to submit any one of the above schedules will result in an assessment of two hundred dollars (\$200) per calendar day as liquidated damages per schedule to be deducted from the contract until the required submittals are provided by Contractor.
- B. Liquidated damages are in addition to any remedies taken by the City under the Supplementary Conditions of this Contract.

1.13 APPROVED STANDARD

- A. CPM, as required by this section, shall be interpreted to be generally as outlined and defined in "CPM in Construction Management" by James O'Brien, McGraw-Hill Company, latest issue, Chapters 1 through 7.
- B. Free float is defined as the amount of time that any activity can be delayed without adversely affecting any succeeding activity for the project completion.
- C. Total float is defined as the amount of time that an activity can be delayed without adversely affecting the overall time for the project completion.

1.14 ADJUSTMENT OF THE CONTRACT TIME AND CHANGE ORDER

- A. Adjustments of the contract time due to delays, additional work, or any other cause will only be issued through a contract change order and only for causes specified in the Contract Documents.
1. In the event that the Contractor requests an adjustment of the contract time, it shall submit a Change Order Request (COR) with such justification and supporting evidence as the City may deem necessary for a determination as to whether or not the Contractor is entitled to an adjustment of time under the provisions of the Contract.
 2. The latest version of the Progress Schedule Update shall clearly indicate that Contractor has used, in full, all the float time available for work involved in the request.
 3. Total and free float are not for the exclusive use of benefit of either the City or Contractor, but is a resource available to both parties on a first needed basis. Contractor shall not be entitled to additional compensation due to schedule impacts for change order work that extends the contract beyond the scheduled completion date, but not beyond the contract completion date.

4. The City determination as to the adjustment of the contract time will be based upon the latest version of the Progress Schedule Update accepted at the time of the alleged delay, and all other relevant information.
 5. Actual delays in activities which, according to the Progress Schedule Update, do not affect the critical path work will not be the basis for an adjustment to the Contract time.
 6. No contract time extensions will be allowed for contract change orders for which there are concurrent contract work delays, unless the excusable delays affect the critical path in the schedule and after all available float has been used.
- B. Contractor shall include, as part of each COR for which it is requesting an adjustment in the Contract duration, a sub network showing logic revisions, duration changes, and cost changes for the work in question and its relationship to other activities on the Progress Schedule Update. Contractor shall incorporate each Change Order into the revised schedule.
- C. The City will, within ten (10) working days after receipt of such request and supporting evidence, review the facts and issue to the Contractor a written merit determination accepting or rejecting the COR in whole or in part.
- D. The new revised schedule, if accepted by the City shall be in compliance with the requirements under "Revised Schedule" as defined within this section.
- E. Where the City has not yet made a final determination as to the adjustment of the contract time, and the parties are unable to agree to the amount of the adjustment to be reflected in the Progress Schedule, the current schedule will be in effect and be updated regularly every month until a revised schedule is agreed and approved by the City.

1.15 EARLY COMPLETION SCHEDULE

- A. Contractor may submit a Monthly Schedule Update which contains a Milestone or Substantial Completion dates earlier than the dates specified in the Contract. Contractor agrees to the following:
1. The time difference between the Contractor's early scheduled completion date and the Contract completion date will be considered as absolute float.
 2. The absolute float is not for the exclusive use of benefit of either the City or Contractor, but is a resource available to both parties on a first needed basis.
 3. Contractor's original bid has included all cost for the full duration of the Project from the date of NTP through the official Contract completion date. Specifically, Contractor has provided through its bid the overhead, construction equipment and facilities cost including overhead, field office, home office, other off-site yard, and extended overhead cost for the duration of the Project in its Bid Items on the Schedule of Bid Prices or Bid Proposal as specified.
 4. If the City requires additional work through a Change Order, which shall be done after the early proposed Substantial Completion Date, but prior to the Contract Time Substantial Completion Date, then no additional money will be paid to the Contractor for extended overhead.
 5. Contractor waives any and all claims or right of action against the City for damages, loss of profit or other additional compensation based on the Engineer's rejection or approval of a proposed Early Completion Schedule.

1.16 TIME IMPACT ANALYSIS SCHEDULE (TIA)

- A. Prepare a Time Impact Analysis (TIA) Schedule: When unforeseen conditions or delays are experienced by Contractor and a time extension is requested. Contractor shall submit a written TIA illustrating the influence of each change or delay on the Contract Milestone completion date to the level of detail that the Engineer may require to determine whether Contractor is entitled to an extension of time.
- B. Actual delays in activities, which according to the Progress Schedule Update do not affect the Critical Path work, shall not be the basis for an adjustment to the contract time.
- C. To prepare the TIA, Contractor shall use the most recent version of the Progress Schedule Update that has been accepted by the City at the time of the alleged delay. Contractor shall use a sub network or fragnet of the Activities with the proposed delay. The impacted fragnet will show new Activities for the work in question and its relationship to other activities in the schedule. Provide the electronic schedule files as well as hard copies of the analysis. Provide a written narrative describing the time impact analysis and all other relevant information.
- D. After the City's review and acceptance of the TIA, Contractor shall incorporate it into the Progress Schedule Updates and Revised Baseline Schedules.
- E. Because float within Progress Schedule Updates is jointly owned, delays to the Work that are outside the control of Contractor may be offset by time savings realized

1.17 AS-BUILT SCHEDULE

- A. The last Monthly Progress Schedule update with all dates actualized will be considered the As-Built Schedule. This schedule will have incorporated all actual start and finish dates and all the accepted Change Orders, Contract Modifications and TIAs. Schedule and approval of the Schedule will be a condition precedent to reduction/release of final Contract retention.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 33 00
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: This section specifies the general procedures and requirements for submission of shop drawings, product data and samples by Contractor to the City for review. See Technical Specifications for specific submittals.

1.2 DEFINITIONS

- A. "Shop drawings" are drawings, diagrams, schedules and other data specially prepared for the Work by Contractor or a subcontractor, sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work. Shop drawings shall not be reformatted Contract Documents.
- B. "Product data" are illustrations, specifications, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by Contractor to illustrate materials or equipment for some portion of the Work.
- C. "Samples" are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.
- D. Shop drawings, product data, samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required the way Contractor proposes to conform to the requirements of the Contract Documents.
- E. The term "manufactured" applies to standard units usually mass-produced. The term "fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements.
1. Shop drawings shall establish the actual detail of manufactured or fabricated items, indicate proper relation to adjoining Work, and amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure.
- F. "Manufacturer's instructions" shall mean the manufacturer's written instructions on the use or application of the product under conditions similar to those at the job site.
- G. "Work description" is a detailed description of the means, methods, tools, equipment, materials, sequence, and any other pertinent information about performance of work.
- H. "Subcontractor qualifications" is a detailed statement of the subcontracting entity or personnel scheduled to perform work including general description of qualifications, representative list of applicable projects, number of years experience, and references complete with telephone numbers and contact persons. Refer to Section 00 72 00 – General Conditions for requirements regarding Subcontractor qualifications prior to award of the contract.
- I. "Field sample" is a sample at the project site to demonstrate the final technique, finish, and construction quality by which the Work will be judged.

- J. A Submittal is defined as any drawing, calculation, specification, product data, samples, manuals, requests for substitutes, spare parts, photographs, survey data, demolition plans, record drawings, bonds, or similar items required to be submitted to the City Representative under the terms of the Contract.

1.3 REQUIREMENTS

- A. The Contractor shall be responsible for distributing approved submittals as required for constructions and for fabricating, furnishing, and constructing work in accordance with approved submittals. The Contractor shall keep one copy of reviewed submittals at the site at all times.
- B. The Contractor shall not use unacceptable submittals nor submitted materials without the City Representative's review stamp for reference in doing work. Submittals returned DISAPPROVED shall be revised by the Contractor and resubmitted to the City Representative for approval; the Contractor shall revise submittals returned APPROVED EXCEPT AS NOTED before proceeding with the subject work.
- C. Approval of submittals shall not relieve the Contractor of the responsibility for errors or omissions in the submittals or from deviations in the Contract Documents unless such deviations were specifically called to the attention of the City Representative in the Submittal Control Form for the submittal.
- D. The Contractor shall be responsible for the correctness of the submittals, for shop fits and field connections, and for the results obtained by use of such submittals. The City Representative will review submittals for conformance with the design concept of the project and for conformance with the requirements of the Contract Documents.
- E. Wherever submittals are required herein, all submittals shall be submitted by Contractor to the City through the City Representative for recording and reviewing by the City.
1. Submittals received from sources other than Contractor will be returned to Contractor without the City's review.
- F. The Contractor shall schedule submittals, enough in advance of scheduled installation dates, to allow time for review or revision.
1. Review and coordinate submittal with other submittals, the construction schedule, testing, procurement, fabrication, delivery and similar sequential activities.
 2. Contractor shall be responsible for changes made necessary by Contractor's failure to coordinate submittals in a complete and timely manner.
- G. Make submittals in groups containing all associated items as complete packages of information for review. The City will reject partial submittals.
1. Provide submittal package in a three-ring binder, with table of contents and tab sheet for each system. Tab sheet shall include a list of material and equipment furnished and shall provide ample space for City's review stamp and comments.
 2. The City reserves the right to withhold action on submittals requiring coordination with other submittals until related submittals are furnished.
- H. Submittals shall be reviewed, stamped, and approved by Contractor prior to forwarding them for City's review.
1. By approving and submitting shop drawings, product data, and samples, Contractor represents that it has determined and verified dimensions, materials, field measurements, and related field construction criteria, and that it has checked and coordinated the information contained within such submittals with the requirements of the work and of the Contract Documents.

2. When professional certification of performance criteria of materials, systems or equipment is submitted, submittal shall be stamped and signed by the responsible design professional with license number and expiration date representing that the City could rely upon the accuracy and completeness of such calculations and certifications.
- I. No portion of the Work requiring submission of a shop drawing, product data, or sample shall commence until the submittal has been reviewed and accepted by the City. All such portions of the Work shall be executed in accordance with accepted submittals.
 1. No portion of the Work requiring submission of work description, subcontractor qualification or field sample shall commence until the submittal has been reviewed and accepted by the City. All such portions of the Work shall be executed in accordance with accepted submittals.
- J. No change shall be made by Contractor in any submittal after it has been accepted by the City.
- K. If the submittal shows any variation from the Contract requirements because of standard shop practice or other reasons, Contractor shall make specific mention of each variation in its submittal.
- L. The City will review Contractor's submittals only for general conformance with the design concept of the Project and general compliance with the requirements of the Contract Documents. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of Contractor as required by the Contract Documents.
- M. The City's review of Contractor's submittals shall not relieve Contractor of the obligations to comply with the requirements of the Contract Documents. The City's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences or procedures. The City's acceptance of a specific item shall not indicate acceptance of an assembly of which the item is a component.
- N. If Contractor makes a submittal which is not required to be submitted, the City will not review such submittal. Contractor shall execute the Work in accordance with the Contract Documents.
- O. Adequate quantities submitted are required for review. No submittal will be processed unless the specified quantities are furnished.
- P. Contractor's submittal packages shall include a digital copy of each Submittal on CD-ROM.

1.4 SUBMITTAL SCHEDULE

- A. The time of submission of a shop drawings, product data, samples, work description, subcontractor qualifications and field samples by Contractor and their processing and returning by the City is a matter which shall be jointly agreed upon by both parties in order that the submittals will be available when needed by the construction process and so that each party can plan its workload in an orderly manner. Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmits.
 1. Allow two weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The City

- Representative will promptly advise the Contractor when a submittal being processed must be delayed for coordination.
2. If an intermediate submittal is necessary, process the same as the initial submittal.
 3. Allow two weeks for reprocessing each submittal.
 4. No extension of Contract Time will be authorized because of failure to transmit submittals to the City Representative sufficiently in advance of the Work to permit processing.
- B. Prepare the Submittal Schedule in the format acceptable to the City, integrating it with or as a by-product of the Construction Schedule, and shall submit it to City 15 calendar days prior to the submission of the first such submittals or simultaneously with the CPM Schedule, whichever is earlier. No submittals will be processed before the Submittal Schedule has been reviewed and accepted by the City.
- C. In preparing the Submittal Schedule, the Contractor shall first determine from the Construction Schedule the date the particular item related to a particular system is needed for the Work. Working backwards, the Contractor shall add the required number of days for processing the submittal, shipment, fabrication, delivery of operation and maintenance manuals, and similar activities to determine the date of the submittal.
1. Contractor shall allow minimum 21 calendar days for the City's review of the submittal and shall anticipate that incomplete, inadequate, or incorrect submittal will require resubmission.
 2. Contractor shall include a minimum 21 calendar days of float in the construction schedule for each submittal activity to allow for resubmissions.
 3. If more than one resubmittal is required, the costs of reviewing the extra resubmittals will be deducted from progress payments due Contractor. Such costs shall include the City's costs and the City's consultant fees.
- D. Adjust the Submittal Schedule monthly with the Construction Schedule to produce an orderly, even workload, without peak loads if possible, and yet able to meet the needs of the review and construction processes. Submit two copies of the Submittal Schedule after it is completed and each time it is updated by Contractor.
- E. Contractor shall be solely responsible for scheduling of submittals. No extension of Contract Time will be granted for untimely submittals or required resubmittals.
- F. Delays caused by the need for resubmittal shall not constitute a basis for an extension of Contract Time.
- G. Delays in the work caused by an incorrect submission or insufficient data will not constitute reason for an extension of Contract Time.

1.5 PROCEDURES

- A. Submittal cover sheet will be provided by the City. The following information will be provided by the Contractor:
1. Identification of the project, Contractor, subcontractor, major supplier.
 2. Identify pertinent Drawing sheet and detail number, and Specification section number as appropriate.
 3. Identify deviations from Contract Documents.
 4. Submittals shall be sequentially numbered by the Contractor.
 5. Provide space for the Contractor's approval and City Representative's review stamps on submittals.

- B. Transmit each submittal to the City with a Submittal Control Form to be supplied by the City Representative. Deliver submittals to the City Representative at the address to be provided at the preconstruction meeting.
- C. Transmittal Form: Use Submittal Record forms available from the City at no cost to Contractor. Consecutively number the transmittal forms. Resubmittals shall have original number with a numbered suffix. Fill in information as applicable.
- D. Identification: Identify submittals with the following information:
 - 1. Project name and location.
 - 2. Contractor's, Subcontractor's, supplier's, or manufacturer's name, address, and telephone number.
 - 3. Submittal number.
 - 4. Product identification or shop drawing title, number, revision, and date as applicable. Where product data contain more than one product, model, selection, etc., clearly mark and identify the information intended to be reviewed by City.
 - 5. Reference to (Contract) Drawing or Specification Section as applicable.
 - 6. Apply Contractor's stamp, signed or initialed, certifying that review, verification of products required, field dimensions, adjacent construction work, and coordination of information are in accordance with the requirements of the Work and Contract Documents.
 - 7. Provide space for City's review stamp. Space shall be minimum 4" x 6".
 - 8. Where multiple Specification Sections govern any portion of the work or where multiple trades are involved in any portion of the work (e.g., steel, mechanical and electrical items embedded in concrete), indicate all pertinent Specification Sections in its submittal identification.
 - 9. Revise any resubmittals as required and identify all changes made since previous submittal.
- E. Packaging of Submittals:
 - 1. Submittals shall be wrapped or packaged to prevent damage during delivery.
 - 2. Reproducible drawings shall be rolled and not folded.

1.6 SHOP DRAWINGS

- A. Submit in the form of one reproducible and 6 copies. The reproducible of drawings greater than 11" by 17" shall be unbound white paper.
- B. Shop drawings shall be submitted only by Contractor. Submittal of incomplete or unchecked shop drawings will not be acceptable.
- C. When the shop drawings have been reviewed by the City, two copies and one marked-up reproducible will be returned to Contractor appropriately stamped.
- D. If the shop drawings are not accepted, five copies will be returned to Contractor with the City's review comments indicated.
- E. Resubmit shop drawings in the same manner and quantity as specified for the original submittal.
- F. Clearly identify and provide explanation of changes made by Contractor on the resubmitted shop drawings.
- G. Each shop drawing submitted shall be sized as follows:

1. Maximum sheet size: 34"x 22" ("D"-size) with a 1" border and a 2" binding edge to the left of the border on the short side of the sheet.
2. Minimum sheet size: 8-1/2" x 11" with 1/4" border on three sides and 1/2" binding edge on the long side.

H. Catalog sheets meeting the specific requirements may be substituted for the required drawings.

1.7 PRODUCT DATA

A. The submittal requirements shall be as follows:

1. Submit six (6) copies of product data. After review, two will be returned to Contractor.
2. Mark each copy to identify applicable products, models, options and other data. Supplement manufacturer's standard data to provide information unique to this project.

B. Product data and manufacturers' standard drawings submitted for review shall show only the pertinent information.

1. Identify the pertinent information by circling it with black ink pen or by crossing out the inapplicable information with black ink pen.
2. Any submittal which contains information not clearly identified for review will be rejected and returned to Contractor for resubmission.

1.8 SAMPLES

A. Submit samples to illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.

B. Submit samples of finishes in custom colors selected, textures, and patterns for the City's selection.

C. Include identification on each sample, with full Project information.

D. Furnish three (3) samples in the following sizes, unless otherwise specified; after review one (1) sample will be returned to Contractor.

1. Flat or Sheet Products: Minimum 6 inches square, maximum 12 inches square.
2. Linear Products: Minimum 6 inches long, maximum 12 inches long.
3. Bulk Products: Minimum one pint, maximum one gallon for liquids; minimum one pound, maximum three pounds or minimum one cubic foot, maximum one cubic yard, as applicable for solids.

1.9 MANUFACTURER'S INSTRUCTIONS

A. When required by individual Specification Sections or by the City during submittal reviews, submit six (6) copies of manufacturers' printed instructions for delivery, storage, assembly, installation, start-up adjusting, field testing and finishing.

B. Identify conflicts between manufacturers' instructions and Contract Documents.

C. Maintain copies of manufacturers' installation instructions and recommendations in Contractor's field office for review, regardless of whether such submittals are requested.

1.10 MANUFACTURER'S CERTIFICATES

- A. Submit certificates, in duplicate.
- B. Submit on 8-1/2" by 11" white paper.
- C. The City will retain certificates; no approval reply is intended.
- D. The certificate shall state that:
 - 1. The equipment or system has been:
 - a. installed in accordance with the manufacturer's recommendations,
 - b. inspected by a manufacturer's authorized representative, and
 - c. serviced with the proper initial lubricants.
 - 2. Applicable safety equipment has been properly installed.
 - 3. The proper electrical and mechanical connections have been made.
 - 4. The equipment is ready for startup.

1.11 ACTION AND DISTRIBUTION

- A. The City will return the submittals stamped "NO EXCEPTIONS TAKEN," "MAKE CORRECTIONS NOTED," "SUBMIT SPECIFIED ITEM(S)," "REVISE AND RESUBMIT" or "REJECTED."
 - 1. When "NO EXCEPTIONS TAKEN" is indicated, Contractor is advised that fabrication, manufacturer, or construction may proceed, providing it complies with the Contract Documents.
 - 2. When "MAKE CORRECTIONS NOTED" is indicated, Contractor is advised that fabrication, manufacture, or construction may proceed, providing it complies with the City's notations and the Contract Documents.
 - 3. Submittals returned with stamps as per Item 1 or 2 above shall be considered as acceptable submittals.
 - 4. When other notation is indicated, Contractor is advised that no work shall be fabricated, manufactured, or constructed. Contractor shall make a new submission in accordance with the procedures specified.
- B. Contractor shall make additional copies of the accepted submittals and shall within 3 calendar days from date of receipt distribute one copy to its subcontractors, vendors, or manufacturers as applicable. Copies shall be made from the accepted copy bearing the City's stamp of acceptance.
- C. Contractor shall be responsible for recording work completed in accordance with approved submittals on the Record Drawings in accordance with the requirements of Section 01 78 39, Project Record Drawings.

1.12 USE OF SUBMITTALS

- A. Work shall be fabricated, constructed, and furnished in accordance with the acceptable submittals. One copy of such acceptable submittals shall be kept at the job site.
- B. Contractor shall not use unacceptable submittals or submittal materials in the work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 42 00

REFERENCES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Applicable Publications
 - 2. Standard Specifications
 - 3. Reference Specifications, Codes, and Standards
 - 4. Abbreviations
 - 5. Definitions
- B. Related Documents: Section 00 72 00 - General Conditions, Paragraph 1.01, Definitions.
- C. Related Sections: Refer to individual Specification sections for definitions of terms, which may be used uniquely in the Work covered, by each section.

1.2 APPLICABLE PUBLICATIONS

- A. Whenever in these Specifications references are made to published specifications, codes, standards, or other requirements, it shall be understood that whenever no date is specified only the latest specifications, standards, or requirements of the respective issuing agencies in effect on the date of the Contract Documents, except to the extent that said standards or requirements may be in conflict with applicable laws, ordinances, or governing codes.

1.3 STANDARD SPECIFICATIONS AND PLANS

- A. Unless otherwise specified, reference in these Specifications to the "DPW Standard Specifications" or "Standard Specifications" shall mean the Standard Specifications of the Department of Public Works, Bureau of Engineering, revised November 2000, except that the provisions for measurement and payment shall not apply. References in Parts 2 through 10 of the Standard Specifications to Sections of Part 1 of the Standard Specifications shall be construed to mean references to the respective provisions of the General Conditions (refer to Section 00 72 00).
- B. Unless otherwise specified, reference in these Specifications to the "DPW Standard Plans" or "Standard Plans" shall mean the Standard Plans of the Department of Public Works, Bureau of Engineering, including latest revisions.
- C. Digital copies of the Standard Specifications and Plans may be obtained from DPW's Standard Specifications and Plans website at: <http://www.sfpublicworks.org/> (select "Services" then "Contractor Resources")
- D. Caltrans Standard Specifications (CTSS) is a reference specification written by the California Department of Transportation and shall be referenced in these Specifications as "CTSS" or "CalTrans Standard Specifications."

1.4 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

- A. Upon written request, the City Representative will furnish information as to how to obtain copies of the referenced standards.

- B. In case of conflict between codes, reference standards, Drawings, and the other Contract Documents, the most stringent requirements shall apply.
- C. The Standard Specifications is applicable only when referred to in these specifications. Only the specific sections referred to shall apply to this Contract.
- D. The standard referred to, except as modified in the Contract Documents, shall have full force and effect as though printed in these Specifications.
- E. Maintain copies of the codes and reference standards with the Contract Documents at the job site at all times.

1.5 ABBREVIATIONS

- A. Abbreviations: Whenever in these Contract Documents the following abbreviations are used, the intent and meaning shall be interpreted as follows:

| | |
|--------|---|
| AA | Aluminum Association, Inc. |
| AAMA | Architectural Aluminum Manufacturers' Association |
| AAN | American Association of Nurserymen, Inc. |
| AASHTO | American Association of State Highway and Transportation Officials |
| ACI | American Concrete Institute |
| ACWS | Asphalt Concrete Wearing Surface |
| AFBMA | Anti-Friction Bearing Manufacturers Association |
| AGA | American Gas Association |
| AGMA | American Gear Manufacturers' Association |
| AIA | American Institute of Architects |
| AIEE | American Institute of Electrical Engineers |
| AISC | American Institute for Steel Construction |
| AISI | American Iron and Steel Institute |
| AITC | American Institute of Timber Construction |
| AMCA | Air Movement and Control Association |
| ANSI | American National Standards Institute |
| APA | American Plywood Association |
| API | American Petroleum Institute |
| APWA | American Public Works Association |
| AREA | American Railway Engineering Association |
| ARI | American Refrigeration Institute |
| ASA | American Standards Association |
| ASAE | American Society of Agricultural Engineers |
| ASCE | American Society of Civil Engineers |
| ASHRAE | American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. |
| ASLA | American Society of Landscape Architects |
| ASME | American Society of Mechanical Engineers |
| ASTM | American Society for Testing and Materials |
| AT&T | American Telephone and Telegraph |
| AWG | American Wire Gage |
| AWI | Architectural Woodwork Institute |
| AWPA | American Wood Preservers Association |
| AWPB | American Wood Preservers Bureau |
| AWS | American Welding Society |
| AWSS | Auxiliary Water Supply System |
| AWWA | American Water Works Association |
| BHMA | Builders Hardware Manufacturers Association |

| | |
|----------|--|
| BOA | Bureau of Architecture, Department of Public Works |
| BOE | Bureau of Engineering, Department of Public Works |
| BWPC | Bureau of Water Pollution Control, Department of Public Works |
| Caltrans | California Department of Transportation |
| Cal/OSHA | California Occupational Safety and Health Administration |
| CBMA | Certified Ballast Manufacturers Association |
| CCR | California Code of Regulations |
| CDA | The Copper Development Association, Inc. |
| CFR | Code of Federal Regulations |
| CISPI | Cast Iron Soil Pipe Institute |
| CMAA | Crane Manufacturers Association of America |
| CRSI | Concrete Reinforcing Steel Institute, Inc. |
| CS | Commercial Standards - U.S. Department of Commerce |
| CSI | Construction Specifications Institute |
| CTSS | Caltrans Standard Specifications |
| CWP | Clean Water Project |
| DOT | United States Department of Transportation |
| DPW | Department of Public Works - City and County of San Francisco |
| EIA | Electronic Industries Association |
| EPA | Environmental Protection Agency |
| FGNA | Flat Glass Marketing Association |
| FHWA | Federal Highway Administration |
| FM | Factory Mutual |
| FS | Federal Specification |
| HI | Hydraulic Institute |
| HMI | Hoist Manufacturer's Institute |
| IAMPO | International Association of Mechanical and Plumbing Officials |
| ICBO | International Conference of Building Officials |
| ICEA | Insulated Cable Engineers Association |
| IEEE | Institute of Electrical and Electronic Engineers |
| IES | Illuminating Engineering Society |
| ISA | Instrument Society of America |
| ITE | Institute of Traffic Engineers |
| JIC | Joint Industry Conferences of Hydraulic Manufacturers |
| MCAA | Mechanical Contractors Association of America, Inc. |
| MLMA | Metal Lath Manufacturers Association |
| MMA | Monorail Manufacturers Association |
| MTD | Metro Transit District |
| NAAM | National Association of Architectural Metal Manufacturers |
| NBFU | National Board of Fire Underwriters |
| NBHA | National Builders' Hardware Association |
| NECA | National Electrical Contractors Association |
| NEC | National Electric Code |
| NEMA | National Electrical Manufacturers Association |
| NESC | National Electrical Safety Code |
| NFC | National Fire Code |
| NFPA | National Fire Protection Association |
| NLMA | National Lumber Manufacturers Association |
| NTMA | National Terrazzo and Mosaic Association, Inc. |
| NWMA | National Woodwork Manufacturers Association |
| OECI | Overhead Electrical Crane Institute |
| OSHA | Occupational Safety and Health Administration - U.S. Department of Labor |
| PEI | Porcelain Enamel Institute |
| PG&E | Pacific Gas and Electric Company |
| PS | Product Standards Section - U.S. Department of Commerce |

| | |
|---------|--|
| RCM | Registered Construction Management |
| RCP | Reinforced Concrete Pipe |
| RLM | RLM Standards Institute, Inc. |
| RMA | Rubber Manufacturers Association, Inc. |
| SAE | Society of Automotive Engineers |
| SCPI | Structural Clay Products Institute |
| SDI | Steel Door Institute |
| SEWPCP | Southeast Water Pollution Control Plant |
| SMACNA | Sheet Metal and Air Conditioning Contractors National Association, Inc. |
| SJI | Steel Joist Institute |
| SSDPWSF | Standard Specifications, Department Of Public Works, City & County Of San Francisco |
| SSPC | Steel Structures Painting Council |
| STLC | Soluble Threshold Limit Concentration |
| TCA | Tile Council of America |
| TEMA | Tubular Exchanger Manufacturers' Association |
| TMA | Tile Manufacturers Association |
| TTLC | Total Threshold Limit Concentration |
| UBC | Uniform Building Code |
| UL | Underwriters Laboratories Inc. |
| UMC | Uniform Mechanical Code |
| UPC | Uniform Plumbing Code |
| VCP | Vitrified Clay Pipe |
| WCLIB | West Coast Lumber Inspection Bureau |
| WIC | Woodwork Institute of California |
| WWPA | Western Wood Products Association |

1.6 DEFINITIONS

- A. As directed, As required, As permitted: Interpretation of Phrases - Wherever the words "as directed," "as required," "as permitted," or words of like effect are used, it shall be understood that the direction, requirement, or permission of the City Representative or governmental regulatory agency having jurisdiction is intended. The words "sufficient," "necessary," "proper," and the like shall mean sufficient, necessary, or proper in the judgment of the City Representative. Wherever the words "inspect," "approved," "acceptable," "satisfactory," or words of like import are used to describe a requirement, direction, review, or judgment of the City Representative as to the work, it is intended that such requirement, direction, review, or judgment will be solely to observe and evaluate, in general, the completed work for compliance with the requirements of the Contract Documents, unless otherwise specifically stated.
- B. Engineer, Architect, Landscape Architect, or City Representative: References in these Specifications to "Engineer, Architect, Landscape Architect, or City Representative" shall be deemed to mean the City Representative.
- C. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the City Representative, items may be removed to a suitable, protected storage location during selective demolition and then cleaned and reinstalled in their original locations.
- D. Remove and Dispose: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the City's property.

- E. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.
- F. Remove and Salvage: Items indicated to be removed and salvaged remain the City's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to City's designated storage area.
- G. Work Site: The space available to Contractor for performance of construction activities, either exclusively or in conjunction with others performing other work as part of the Work. The extent of the Work site is shown on the Drawings and may or may not be identical with the geographical description of the site upon which the Work is to be constructed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 45 00

QUALITY CONTROL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Maintenance of quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Failure of Materials and Equipment Tested or Inspected:
 - 1. Previous acceptance may be withdrawn and material may be subject to removal and replacement with material meeting Specification requirements, at no cost to the City.
 - 2. The City may refuse consideration of further sample of same item for testing.

1.2 INSPECTION OF THE WORK AND SITE ACCESS

- A. The work shall be conducted under the general observation of the City and the City's consultants and shall be subject to inspection by representatives of the City and other government agencies having jurisdiction to assure compliance with all requirements of the Contract Documents and applicable codes and regulations.
- B. During the course of construction, inspections may be conducted by authorized representatives of the City, various inspectors at the site, or independent agencies designated by the City.
 - 1. The presence of inspectors or independent agencies shall not relieve Contractor of the responsibility for the proper execution of the work in accordance with the requirements of the Contract Documents. Compliance is a duty of Contractor, and said duty shall not be avoided by any act or omission on the part of the inspectors.
- C. All products, materials, and equipment furnished by Contractor may be subject to inspection by the City both on-site and at the place of manufacture.
 - 1. Contractor shall at all times provide access to the work for representatives of the City and other agencies designated by the City wherever Contract work is in preparation, in progress or completed.
- D. Inspection items include, but are not limited to, construction quality, deficiencies, and corrections thereof; technical data on materials, tests, and laboratory analysis; contract change orders, claims, and other contract administration matters; and daily logs.
- E. Contractor shall be responsible for calling Code Enforcement Agencies such as the Bureau of Building Inspection, San Francisco Fire Department, Department of Public Health, etc.

1.3 MANUFACTURER'S FIELD SERVICES

- A. When specified in the respective Specification Sections, require manufacturer or supplier to have qualified representative(s) perform on-site observations and make recommendations.
 - 1. Observe field conditions, including conditions of surfaces and installation.
 - 2. Observe quality of workmanship.
 - 3. Furnish recommendations to assure acceptable installation and workmanship.

4. Where required, start, test, and adjust equipment as applicable.
 5. Where required, certify that work is installed, adjusted, tested, and satisfactorily performs In accordance with the requirements of the Contract Documents.
- B. Representative shall submit written report to City listing observations and recommendations.

1.4 TESTING AGENCY SERVICES

- A. Testing Agency: An independent commercial testing organization contracted by the City, or the City's own testing laboratory employed and paid by the City, will perform tests and inspections required by various Specification Sections and by applicable building codes or other regulations of public agencies having jurisdiction.
1. City employment of Testing Agency shall not relieve Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
 2. City provided testing shall be limited to Project-specific testing and shall not include general tests or approvals of materials, equipment, or systems.
- B. Testing Agency will furnish sufficient personnel to perform testing and inspection in a reasonable manner so the Contractor is not caused undue delays and expense.
- C. Testing Agency services will be performed in accordance with requirements of governing authorities and with specified standards.
- D. Reports will be submitted to the City and Contractor giving observations and results of tests, indicating compliance or non-compliance with specified standards and with Contract Documents.
1. Where required, Testing Agency will submit copy of test results directly to enforcing agency.
 2. When test or inspection reveals nonconformance with Contract Documents, Testing Agency will orally notify City and Contractor immediately and subsequently by written report.
- E. Re-inspection and Re-testing: Where inspections or tests prove that Work is unsatisfactory or not in compliance with Contract Documents, Contractor shall be responsible for reimbursing City for costs for further inspection and re-testing.
1. Re-testing and inspections of Work revised or replaced by Contractor shall be paid by Contractor where tests were performed on original Work.
 2. Contractor shall repair and replace at no cost to the City damage to Work made necessary by re-testing in accordance with the requirements of the Contract Documents.
 3. Contractor shall reimburse City for City's inspection or Testing Agency fees for travel and per diem expenses, when shops or plants of fabrication are located more than 50 miles from Project site.
 4. If City has reasonable doubt that materials comply with specified requirements, additional inspections or tests will be required as directed by City.
 - a. If additional inspections or tests establish that materials comply with specified requirements, costs for such tests will be paid by City.
 - b. If additional inspections or tests establish that materials do not comply with specified requirements, costs for such tests shall be paid by Contractor.
- F. Testing Agency is not authorized to:
1. Release, revoke, alter, or enlarge requirements of Contract Documents.
 2. Accept any portion of Work.
 3. Stop Work, except as may be required to perform testing or inspection

operations.

- G. Contractor's Responsibilities:
1. Cooperate with Testing Agency personnel.
 2. Provide access to the Work.
 3. Obtain and handle samples of materials and equipment.
 4. Furnish storage and assistance as requested.
 5. Facilitate inspections and tests.
 6. Notify City Testing Agency, and special inspectors in writing a minimum of 48 hours, excluding weekends and holidays, nor more than 72 hours prior to expected time for operations requiring testing or inspection services.
 7. Schedule Work to be tested or inspected to allow tests to be performed within reasonable time period.
 8. Where required, deliver samples to Testing Agency.
 9. When a specified test or inspection is not performed due to Contractor's failure to notify the City as specified or when material or workmanship is not ready at the time specified, the City will establish remedial Work and Contractor shall bear cost of remedy.
 10. Take steps necessary to ensure no portion of the Work requiring testing or inspection is covered prior to written acceptance by authorized parties.
 11. Ensure that no testing or inspection is scheduled until such times as they are assured that all approvals for the work have been received. This includes welder's certifications, submittals, design/build engineering stamp, and certification.
- H. Completed Work: Should the City require tests and inspections for completed work that has not been tested or inspected, furnish necessary facilities, labor, and material to uncover or remove Work in question to extent necessary. Contractor shall reconstruct the work after the test or inspection in accordance with the requirements of the Contract Documents.
1. The cost of reconstructing non-conforming work or defective materials shall be at Contractor's expense.

1.5 REQUIREMENTS OF TESTS

- A. Review Specifications Sections for additional requirements for testing and inspection.
- B. Tests referenced shall not be a limitation on City's rights for testing and inspection to verify conformance with Contract Documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Provide and maintain construction facilities and temporary controls as required to perform the Work; relocate as required by the progress of the Work.
 2. Unless otherwise required by the City, materials for construction facilities and temporary controls may be new or used, and shall be suitable for the purposes intended.
 3. Materials, installation and maintenance of construction facilities and temporary controls shall be in compliance with applicable regulatory requirements.
 4. Maintain construction facilities in sound, neat and clean condition. Remove any graffiti and repair any vandalism to the satisfaction of the City.
 5. Remove construction facilities and controls, including associated utilities and equipment, when their use is no longer required.
- B. Related Sections:
1. Section 01 71 33 - Protection of Adjacent Construction.
 2. Section 01 77 00 - Closeout Procedures.

1.2 OPERATION HOURS FOR TEMPORARY CONTROLS

- A. Provide and maintain temporary pumping, piping, power, lighting, controls, instrumentation, alarms, security devices, and all required safety devices at all times. Such items shall be made available for immediate use when Contractor's operations impact existing systems.

1.3 TEMPORARY ELECTRICITY

- A. Provide and pay for electrical service and weatherproof, grounded distribution system of sufficient size, capacity, and power characteristics during the construction period. Existing on-site City electrical facilities are not available for contractor's use.

1.4 TEMPORARY LIGHTING

- A. Provide and maintain lighting for construction operations, including power to distribution boxes. Required illumination may be provided by approved cord sets with lamp guards. Provide and maintain temporary lighting whenever new permanent lighting fixtures are switched over from existing lighting.

1.5 TELEPHONE SERVICE

- A. The Contractor shall provide, maintain and pay for telephone service to Contractor's field office from the time of project mobilization.

1.6 TEMPORARY WATER SERVICE

- A. Potable Water: Arrange with the San Francisco Water Department to provide potable water obtained by connecting to City water systems.
1. Contact the Water Department at 923-2400 for arranging such water service.

2. Water is available from fire hydrants located in the streets. Obtain permission from the San Francisco Fire Department to use hydrants.
 3. Pay the costs of connection fees, meters, and all water furnished by the San Francisco Water Department under the water service account established above.
- B. The Contractor is advised that Ordinance # 175-91, Article 21, Section 1100 to 1107 of the San Francisco Municipal Code (Public Works Code), restricts the use of potable water for soil compaction or dust control activities, to the extent not directly in conflict with any applicable federal, state and local law.
1. In consideration for potential health concerns, an exemption may be allowed for the use of potable water for soil compaction or dust control activities when human contact and exposure exists. Such exemption will be considered and may be granted on a case by case basis.
 2. Should the Contractor seek to use potable water for soil compaction or dust control activities, the Contractor, shall apply for, and obtain an exemption pursuant to Ordinance #175-91, Article 21, prior to its use. The application for such use of potable water is to be sent to the Department of Public Health, Environmental Health Section, 1390 Market St., Room 910, San Francisco, CA 94102, Telephone 415-252-3945. Permission for such use may be granted by the General Manager of the Water Department, pursuant to Ordinance #175-91, Article 21.
- C. Reclaimed Water: Arrange with the SEWPCP to provide reclaimed water for soil compaction and dust control which is available at no cost to Contractor at the SEWPCP from 8:00 A.M. to 5:00 P.M. on weekdays and Saturdays.
1. Arrangements can be made for access to reclaimed water at other times.
 2. A permit is required to obtain reclaimed water from the City. Contact mfisher@sflower.org and/or (415) 695-7378 at least three (3) days prior to the date that reclaimed water is required. See <http://sflower.org/index.aspx?page=953> for more information.
- D. The Contractor shall be required to provide his own water tanker and hoses. Contractor's hoses crossing traveled roadways shall be buried beneath the roadway or ramped over.
- E. Provide and maintain distribution piping, water tankers, hoses, and all appurtenances necessary to supply water at the job site.
1. Bury pipe crossing traveled roadways beneath the roadway. Use hose or ramp over temporary piping on roadway surfaces.

1.7 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required toilet facilities and enclosures. Location of facilities shall be approved by the City Representative in the field.
- B. The Contractor shall be responsible to provide and maintain all construction facilities, temporary controls, and temporary utilities as required to perform the work of this Contract. The Contractor shall arrange with the utility agencies to provide and pay for such utility services required, including furnishing, installing and removing on completion of all work all temporary connections to said utilities.
- C. The Contractor shall provide and maintain temporary toilet facilities and enclosures as required at no cost to the City.

1.8 TEMPORARY CONSTRUCTION FENCE

- A. The Contractor shall furnish and install a temporary 6'-0" chain link construction fence with lockable gates at the limit of work and at areas to isolate and protect the public from hazardous conditions during construction.
- B. Provide fencing as needed to prevent unsafe entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- C. Protect vehicular traffic, stored materials, site and structures from damage.

1.9 TEMPORARY ENCLOSURES

- A. Provide temporary enclosure for protection of construction in progress and completed, from exposure, foul weather, other construction operations and similar activities.
 - 1. Where heat is needed and the permanent building enclosure is not complete, provide temporary enclosures where there is no other provision for containment of heat. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
 - 2. Install tarpaulins securely, with incombustible wood framing and other materials. Close openings of 25 square feet or less with plywood or similar materials.
 - 3. Close openings through floor or roof decks and horizontal surfaces with load-bearing wood-framed construction.

1.10 MAINTENANCE OF THE WORK AREA

- A. Maintain the work areas in a safe condition, remove all accumulations of rubbish (Contractor's waste and public refuse) and surplus materials at the end of each working day, restore them to a condition equal to that which existed prior to the start of work, and leave them at completion of the contract in a clean, orderly fashion.
- B. Demolished concrete, deteriorated masonry, cleared vegetation, and excavated material not indicated for reuse shall be removed from the site at the end of each working day without delay and disposed of in a legal manner.
- C. Cleaning During Construction: Control accumulation of waste materials and rubbish; collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly.
 - 1. Clean interior spaces prior to the start of finish work; maintain areas free of dust and other contaminants during finishing operations.
 - 2. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material off-site in a lawful manner.
 - 3. Maintain the site and all adjacent public areas in a clean and orderly condition. Maintain the site, equipment, fences and signs free of graffiti. Remove all graffiti daily using methods which cause no damage to the work or existing facilities.
 - 4. Sweep all pedestrian walkways and dispose of debris around the site perimeter on a daily basis.

1.11 DRAINAGE CONTROL

- A. Grade site to drain. Maintain excavations free of standing water.
- B. Provide, operate, and maintain pumping equipment as needed to control water at the site.

- C. Protect site from erosion caused by flowing water.

1.12 CONFINED SPACE ENTRY

- A. It is the responsibility of the Contractor to provide all equipment or assistance to make the confined space safe for entry by the Engineer or his representative per The California Administration Code, Title 8, and General Industry Safety Orders Entitled "Confined Spaces".

1.13 TEMPORARY PROJECT SIGN

- A. Not Applicable

1.14 TEMPORARY TOW AWAY/NO-PARKING SIGNAGE

- A. On January 1, 2017, temporary occupancy permits and all other permits that include tow-away signage, aside from excavation permits activated through 311, will not be activated and permittees will not have tow away rights unless and until time and date stamped photos evidencing that signage was posted in the correct location a minimum of 72 hours prior to the time at which the parking restrictions are to become effective under the permit have been uploaded to the San Francisco Public Works, Bureau of Street Use and Mapping (SFPW/BSM) Tow-Away Sign Database. See Appendix B – Tow-Away Sign Activation and Photo Upload Process.
- B. The Contractor is advised that Sign Ordinance PWC Article 15, Section 724 which will require the applicant (Contractor) to input the amount of right of way they will occupy during construction activities for a specific permit, to be issued by SFPW/BSM for all work in the Public Right-of-Way. The Contractor shall enter times of operation during construction with the proposed start and end times and specific calendar days. This information will be printed on the tow-away signs. Refer to Tow Away Manual at <http://www.sfpw.org/sites/default/files/4506-Tow-Away%20User%20Guide.pdf>.
 1. The location of the Construction Zone will be entered as part of the excavation permit, which will include the length of occupancy (distance in linear feet). This information and date. Once a permit has been approved, the applicant is informed of the approval via email and will be provided a hyperlink to create/modify the tow/away signs prior to printing.
 2. The information required at time of permit will update the database and will validate that the total linear footage of construction occupancy does not exceed 1,200 linear feet. Upon completion of any adjustment to the tow-away signs, the applicant can determine which street segment to print out and may choose to either print one of two general tow-away sign template or request the Department of Public Works to print the tow-away signs. The Contractor shall pay for the printing of each sign.
 3. Size: Tow-Away/No-Parking Signs shall be 11' wide x 17' tall.
 4. Digital File: Project sign shall match the final graphical layout provided by the City, including the colors and fonts. The design of the Contractor furnished project signs shall be in strict accordance with the DPW Order for Towaway Signs located at: <http://sfpw.org/sites/default/files/4508-TowAway-2015-Template.pdf>.

- a. Contract shall use only paper types which shall be waterproof durable; tear resistant' with laser paper labels type and templates: 11 x 17 10 PT CV, 215 grams/m₂
5. Printing: Project sign can be printed on a Xerox Phaser 7800, or equivalent that can print 11x17 120-130 lb paper. All Tow-Away/No-Parking Signs shall be secured and paid for by the Contractor.
6. The Contractor shall maintain Tow-Away/No-Parking Sign (s) in good condition as needed throughout the duration of the Contract.
7. After substantial completion, Contractor shall remove each Tow-Away/No-Parking Sign from the site as its property.
8. Damaged Tow-Away/No-Parking Sign that cannot be repaired on site shall be replaced at no additional cost to the City.

1.15 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary above grade or buried utilities, construction equipment, temporary structures and facilities, unused materials, rubbish and debris prior to Final Inspection. Restore facilities to conditions prior to construction, to the satisfaction of the City.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.
- D. Remove field offices and temporary utility services from the Site.

1.16 STORAGE AND STOCKPILING

- A. The Contractor shall make its own arrangements for off-site storage or shop areas and off-site construction parking facilities. On-site storage shall be limited to materials and equipment currently being installed or utilized.
- B. If necessary, the Contractor shall arrange for temporary off-site storage of equipment and materials at his discretion. No additional compensation shall be provided from the City.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION



ONESF

Building Our Future

onesanfrancisco.org

[PROJECT TITLE]

[Contract No. XXXXXA]

FUNDED BY [NAME OF PROGRAM]

BEGINS: [MONTH / YEAR]

COMPLETION: [MONTH / YEAR]

MORE INFORMATION:

Please visit us at
www.sfpublicworks.org

CONTACT:

San Francisco Public Works
415-XXX-XXXX
email address

AFTER HOURS:

[Contractor's Name]
XXX-XXX-XXXX

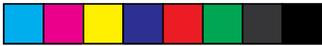
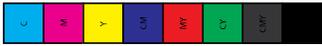
A PROJECT OF THE CITY'S TEN-YEAR CAPITAL PLAN

There is only one San Francisco and we're taking care of it.

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Hilary Roman
Mala Cohen
Albha Saha



Beginning on January 1, 2017, temporary occupancy permits and all other permits that include tow-away signage, aside from excavation permits activated through 311, will not be activated and permittees will not have tow-away rights unless and until time and date stamped photos evidencing that signage was posted in the correct location a minimum of 72-hours prior to the time at which the parking restrictions are to become effective under the permit have been uploaded to the Bureau of Street-Use and Mapping Tow-Away Sign Database.



San Francisco Public Works

1155 Market Street, 3rd Floor
San Francisco CA, 94103
Phone: (415) 554-5810
Fax: (415) 554-6161

Processing Hours: 7:30 AM-4:00 PM
Monday through Friday, except official holidays



Contact 311 for complaints

Tow-Away Sign Activation and Photo Upload Process



www.sfpublicworks.org



Printed on 30% post-consumer recycled stock

Public Works Tow-Away Sign Activation and Photo Upload Process

EFFECTIVE
DATE: January 1,
2017

PERMITS AFFECTED:

The tow-away sign activation and photo upload process change is applicable to all temporary occupancy permits and all other permits that include tow-away signage.

Excavation permits activated through 311 will not be impacted.

ACTIVATION AND PHOTO UPLOAD PROCESS:

STEP 1: Request a street space permit from Public Works.

STEP 2: Once permit is approved a link for tow-away signs will be provided via email along with a link to the Bureau of Street-Use and Mapping tow-away sign database.

STEP 3: Print signs and post them at the permitted location every 20 feet no less than 72 hours in advance of the time the parking restrictions are to become effective.

STEP 4: Click on the link provided in the confirmation email and take photos showing the placement of the signs.

STEP 5: Click submit and the photos will be submitted to Bureau of Street-Use and Mapping for review.

STEP 6: A confirmation email will be sent stating the photos were accepted, the permit is active, and tow-away rights are reserved.

NOTE: If photos are inadequate, you will receive a rejection email identifying the deficiencies to be corrected.

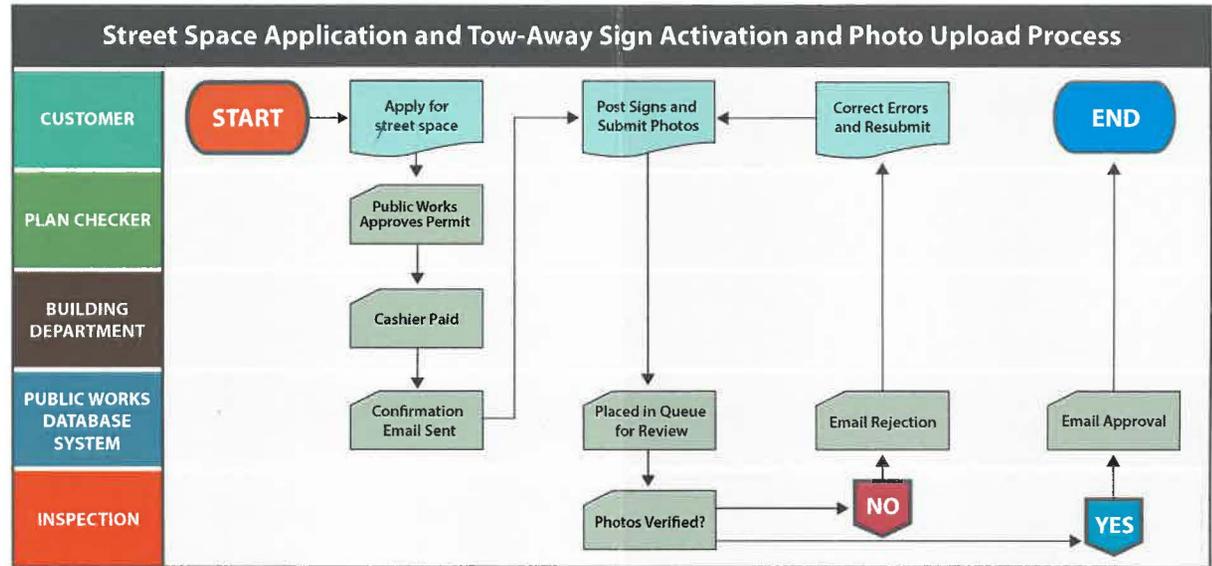


PHOTO REQUIREMENT 1:

A scene-setting photo clearly showing the signs are posted in the permitted location every 20 feet.

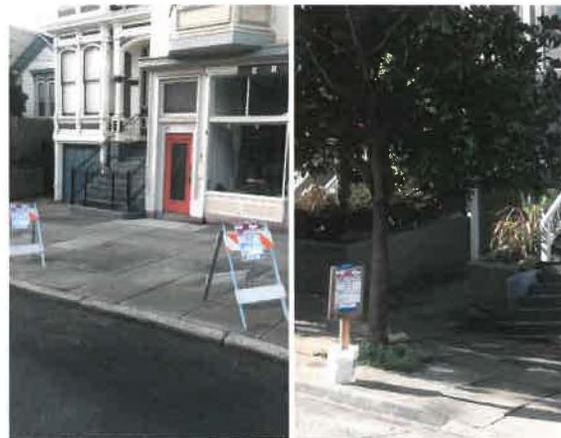


PHOTO REQUIREMENT 2:

A close-up photo of a tow-away sign that enables essential information on the sign to be confirmed.



SECTION 01 56 39

TEMPORARY TREE AND PLANT PROTECTION

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section includes the requirements for the protection of existing trees and shrubs, including entire structure of plant material above and below ground impacted by all demolition and construction work under this contract.
- B. Contractor is prohibited from stockpiling any excavation or construction materials within the canopy of trees, on lawn areas or near shrubs.
- C. Contractor shall immediately clean and remove any construction residue that falls within the canopy of a tree or near shrubs.

1.2 RELATED SECTIONS

- A. Section 01 11 00 - Summary of Work.
- B. Section 01 71 33 - Protection of Adjacent Construction

1.3 JOB CONDITIONS

- A. Pre-construction Meeting:
 - 1. Prior to commencement of work, the Contractor shall arrange a meeting on the site with the City Representative, General Contractor, and such others as the City Representative shall direct to review the proposed schedule, the "Trees of Concern", the tree and landscape protection, submittals for this Section, the coordination with work of other trades, and the selective thinning and clearing requirements.
 - 2. Adjustments to the type and extent of the protection shall be addressed at the time of the meeting.
 - 3. Contractor shall coordinate the meeting and inform all parties in writing (5) business days in advance of the scheduled meeting.
- B. Environmental Requirements: Perform work only during suitable weather conditions. Do not disc, rototill, or work soil when frozen, excessively wet, or in otherwise unsatisfactory condition.
- C. Sequencing and Scheduling: Adjust, relate together, and otherwise coordinate work of this Section with work of Project and all other Sections of Project Specifications.

1.4 QUALITY ASSURANCE

- A. Contractor shall employ a certified Arborist who is a member of the American Society of Consulting Arborists, Inc. (ASCA). The name and qualifications of the Arborist shall be submitted for approval by the City Representative.
 - 1. Arboricultural work including tree removal, pruning and care for trees to remain shall be performed by personnel familiar with arboricultural work, under the supervision of an experienced professional Arborist and foreman at all times.
 - 2. Work in this Section shall be by a firm which has successfully completed landscape work similar in quality and extent to that indicated for this project for a

period of not less than five (5) years. Supervisory personnel with experience on projects of similar size and extent shall supervise the work.

1.5 APPROVAL OF TRENCHING AND EXCAVATION

- A. The contractor shall obtain written approval from the City Representative and a certified Arborist prior to start of excavation work within the drip line of trees. A Certified Arborist shall be retained as needed to provide written direction at the Contractor's expense.
- B. The Contractor is prohibited from using equipment for trench and excavation work within the tree drip line or where root intrusion exists on asphalt pathways to be reconstructed.
- C. In the event pruning is required for roots greater than 2" in diameter the Contractor shall receive written direction from the City Representative in coordination with Arborist prior to continuation of work.

1.6 NON-APPROVED TRENCHING

- A. In the event trenching or excavation is performed by the Contractor without the approval or not as shown on the Contract Drawings; the Contractor shall be subject to a fine equal to one half (½) day liquidated damages for every 50-feet.
- B. The only exception to paragraph 1.07A above is for trenching to a maximum of 3-feet as measured horizontally without approval at any particular location for the placement of pipe fittings and quick couplers outside the drip line of any tree.

1.7 DAMAGE TO TREES AND PAYMENT FOR DAMAGE

- A. If the Contractor should cause minor damage as defined by nicked tree trunks, limbs and branches or broken branches to trees or shrubs during the course of construction, the Contractor shall pay the following penalties at the beginning of each billing period:
 - 1. The Contractor will be penalized the sum of One Hundred dollars (\$100) for the first incident which causes minor damage to trees or shrubs.
 - 2. The Contractor will be penalized the sum of Two Hundred dollars (\$200) for the second incident which causes minor damage to trees or shrubs.
 - 3. The Contractor will be penalized the sum of Five Hundred dollars (\$500) for the third and subsequent incidents which cause minor damage to trees or shrubs.
- B. The Contractor shall replace the tree should more serious damage occur, including damage to roots 2-inches in diameter or larger, during construction at no additional cost to the City. The City Representative shall determine the value of such replacement trees or shrubs. In addition to the Contractor's restoration approved by the City Representative, the Contractor will be assessed damages for the difference in the dollar value of the damaged tree or other plant material, and the dollar value of the replacement.
 - 1. The dollar value will be determined by the City Representative from the "Guide for Establishing Values of Trees and Other Plants," prepared by the Council of Tree and Landscape Appraisers, current edition. Damages assessed will be deducted from moneys due or that may become due to the Contractor.
- C. The Contractor shall in addition be liable for the cost to the City for removing the damaged tree. This cost will cover 1.5 times the hourly wage of all person(s) at the site for the required hours to remove the tree and haul offsite as directed by the City Representative.

1.8 EXCAVATION WORK UNDER LOW HANGING BRANCHES

- A. In areas where trenching is required under low hanging tree branches (8 to 12-feet off the ground), the Contractor shall operate equipment to a maximum height of 10-feet to avoid contact and possible damage to the tree branches.
- B. In bidding the work, the Bid Items which include piping and conduit trenching work shall include the use of machinery that will not extend above 10-feet vertically for 5% of the linear trenching performed.

1.9 MANUAL EXCAVATION

- A. In areas where tree branches hang below 12-feet over the area to be excavated, adjacent to elderly trees or as directed by the City Representative, the Contractor shall manually excavate the trench. No machinery shall be used in the areas so designated for manual excavation.

1.10 DAMAGE TO LAWNS, PLANTED AREAS, AND EXISTING IRRIGATION SYSTEMS

- A. Refer to the DPW Standard Specifications, Section 1009 – Restoration of Existing Lawn and Other Planting.

1.11 EXCAVATION FOR CONCRETE PATHWAYS

- A. The Contractor's vehicles and equipment shall not be driven off-road except along designated routes as far away as practical from tree root zones.
- B. Vehicles and equipment shall be operated in such a manner as to avoid damage to tree and bush trunks, leaves and branches.

1.12 ASPHALT PAVING AND TRENCHING AND INSTALLATION OF UNDERGROUND UTILITIES NEAR TREE ROOTS

- A. The Contractor shall place all piping 3 ½-inches and smaller and all conduits a minimum of 18-inch below the existing finished grade. New conduits shall be located at least 25-feet away from all tree trunks, , , and 5 feet away from and parallel to any asphalt or concrete paths.
- B. The Contractor shall not cut any tree roots over 2-inch in diameter unless an approved arborist is consulted. The Contractor shall bend and/or transition underground conduit and piping so that the conduit or piping will thread between tree roots. This 2-inch diameter tree root guideline is dependent of the species of tree or bush. Various trees and bushes have a more fibrous root system, consequently, severing a large number of these roots can be as detrimental to certain species of trees as severing a fewer number of larger tree roots.
- C. When possible, trenches shall not be run of the side of the tree exposed to prevailing winds as roots are primarily anchored on the windward side. Trenches shall not be cut across more than on quadrant of the tree root zone.
- D. Excavated material (fill and overlay) shall not be deposited under the leaf/needle canopy of established trees. The excavated material shall be placed in piles along one side of a paved surface. In no case shall the Contractor place the excavated material closer than 6-feet from the base of a tree.
- E. The Contractor shall be responsible for identifying all underground lighting, electrical control, and irrigation utilities within the project site area. San Francisco Public Works is not a party

to or a participant in the Underground Service Alert (USA). SFPW will not be providing any field marking service, protecting, and warning the Contractor of the underground facilities. As part of the contract work, the Contractor shall be required to locate, probe, determine, and flag or mark all underground facilities including, but not limited to, metal and plastic conduits and pipelines, sprinkler heads, quick couplers, valves boxes, controller boxes, pull boxes, prior to excavation.

- F. The Contractor shall replace all affected areas with new sod grass, decomposed granite, new concrete, or asphalt paving within 10 calendar days after beginning trench excavation. All trenches in pathways and planting areas shall be temporarily covered for immediate use. The Contractor shall not accumulate affected areas for group planting of sod or group paving of trench.
- G. The Contractor shall locate quick couplers and lateral lines. The Contractor shall cap tees as shown on the drawings unless located in the field directly under the tree drip line. In these cases, obtain the City Representatives approval for relocating the fitting(s).

PART 2 - PRODUCTS

2.1 TEMPORARY PROTECTION OF EXISTING TREES AND LANDSCAPE PLANTING

- A. Tree Protection fencing shall be composed of 6' tall chain link fence and posts, refer to drawings for additional information.
- B. Temporary materials, new or used, that are adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable Laws and Regulations, and shall be approved by the City Representative.
- C. Protection bedding mulch: Recycled wood chips to conform to the following:
 - 1. Mulch pieces should typically be heavy toothpick-like, 2-inch dimension.

PART 3 - EXECUTION

3.1 GENERAL

- A. Provide protection for existing tree to remain.
- B. Contractor shall provide Temporary Protection suitable for the protection of the existing tree to remain immediately adjacent to the construction limit of work line, and as directed by the City Representative.
- C. The Contractor shall coordinate all other trades and work.
- D. All trees to be retained shall be enclosed by fencing on the work side when Tree Protection Zone is located inside, adjacent to, or within 10 feet of the limit of work, prior to demolition, grubbing, or grading.
- E. Trees to be retained shall be pruned for clearance as required under supervision of a certified Arborist.
- F. Temporary Protection shall be kept in place for the duration of the Project, maintained during construction, and temporarily relocated as required by the progress of the construction at no additional cost to the City.

3.2 PREPARATION

- A. Stake the location of Temporary Protection barriers and fencing as noted above for the approval of the City Representative prior to installation of Temporary Protection fencing. Place location stakes at corners and ends and 30 feet on center maximum.
- B. Notify the City Representative at least two weeks in advance of the date for on-site review of the staking.
- C. Place six inches (6") of organic mulch over existing grade within Temporary Protection fencing for existing trees to remain.

3.3 INSTALLATION

- A. Install Temporary Protection for existing tree, as specified herein and as approved in the field by the City Representative and Landscape Architect. Install all other Temporary Protection in locations approved in the field by the City Representative and Landscape Architect.
 - 1. Install posts at 10-foot intervals maximum, at corners, and at other changes in direction. Posts shall be set firmly in undisturbed soil, plumb and with a minimum of exposed height as specified. Securely attach fencing at a minimum of three points.
 - 2. On pavement, provide self-supporting chain link fencing that does not require anchorage into the pavement.
 - 3. Install hay bales or rolls of erosion control wattling, secured around trunk to a height of 6 feet.
- B. Fencing to be relocated closer to trees to remain to accommodate the sequence of construction shall be reviewed by the City Representative and Arborist prior to relocation. No removals or construction shall occur without the City Representative's and Arborist's approval of the new fence location.
- C. Completely remove Temporary Protection, including foundations, associate materials and equipment at the completion of the Project or as directed by the City Representative.
- D. Restore and recondition areas of site damaged or disturbed by barrier installation and removal.

3.4 PROHIBITED ACTIVITIES:

- A. The following are activities prohibited under existing tree canopies and within protected landscape planting areas:
 - 1. Excavating or trenching under tree canopies is prohibited and shall be permitted only under the following conditions:
 - 2. When excavating or trenching within the canopy of trees to remain, the Owner shall be given 48 hours notice. Exercise extreme care during excavation to prevent damage to roots and in a manner that will cause minimum damage to the root system. Such work shall not occur without a professional arborist to perform compensatory root and branch pruning.
 - 3. Prune injured roots cleanly. Backfill as soon as possible.
 - 4. Where tunneling around roots is not practical, roots shall be cut off approximately six inches (6") from construction.
 - 5. Exposed roots shall not be allowed to dry out before permanent backfill is placed. Temporary earth cover shall be provided, or exposed roots shall be packed with wet peat moss or four (4) layers of wet untreated burlap and temporarily supported and protected from damage until permanently covered with backfill.

6. Thinning shall not remove more than thirty percent (30%) of the existing leaf surface.
 7. Ripping or tearing of roots will not be allowed.
- B. Placing backfill under protected trees unless indicated otherwise. Where fill is required for grading, and as indicated on the Drawings, do not fill above existing grade line at trunks. Fill soil must percolate at a rate of 1" per hour minimum.
 - C. Damage to trunk, canopy, or limbs caused by maneuvering of vehicles or equipment, or stacking of materials and equipment.
 - D. Driving or parking vehicles; storage of vehicles, equipment, or supplies.
 - E. Disposing of paint, petroleum products, dirty water, soil sterilants, concrete slurry or other deleterious materials on or around roots or on any landscape areas.
 - F. Changing site grades which cause drainage to flow into or to collect near protected trees.
 - G. Using protected trees as support posts, power poles, crane stays, sign posts, or anchorage for ropes, guy wires, power lines, or other similar functions.
 - H. Damage to root system from flooding, erosion, excessive wetting or drying resulting from dewatering or other operations.
 - I. Excessive water or heat from equipment, utility line construction, or burning of trash under or near shrubs or trees.

3.5 REPLACEMENT OF DAMAGED LANDSCAPE PLANTING

- A. Trees destroyed or damaged beyond repair due to Contractor's negligence, failure to provide adequate protection, or failure to perform recommended selective pruning shall be compensated by the Contractor at no additional cost to the City.
 1. Damage beyond repair that requires replacement shall be determined by the City Representative.
 2. Replacement shall include the replacement plant material, transportation, installation, a 30-day maintenance period, and a one year warranty.
 3. Planting location for replacements may be different from the original location and shall be determined by the City Representative.
- C. Replace trees with plants of same species, size and shape.
- E. Since age and size of existing tree may prohibit replacement with same size tree, the difference in caliper between size of damaged tree and replacement of tree shall be compensated by the Contractor.

END OF SECTION

SECTION 01 57 26

TEMPORARY PROTECTION OF CATCH BASINS AND STORM DRAIN INLETS

PART 1—GENERAL

1.01 DESCRIPTION

- A. Documenting and protecting catch basins and storm drain inlets as incidental work.

1.02 RELATED SECTIONS

- A. Section 01 71 33, Protection of Adjacent Construction

PART 2—PRODUCTS

2.01 MATERIALS

- A. Contractor shall provide all labor and materials necessary to protect debris from entering the sewer system.

PART 3—EXECUTION

3.01 PREPARATION

- A. The Contractor shall photograph all catch basins within the limits of work. Each catch basin shall have at least two photos, one from the top view and one from the side view along the flow line. Refer to Section 01 71 33-1.6B.
- B. Contractor shall notify the City Representative of any clogged catch basin or storm water inlet immediately upon discovery.
 - 1. Call SFPUC Sewer Operations at 695-2096 to report catch basins or storm water inlets containing debris in the barrels and/or cast iron traps.

3.02 DRAINAGE PROTECTION

- A. Contractor shall be responsible for protecting and keeping in operation all storm water inlets and catch basins throughout the entire project site for the duration of the project until Final Acceptance.
- B. Contractor shall take adequate measures to prevent the impairment of the operation of the sewer system. Contractor shall prevent construction material, pavement, concrete, earth, paints, thinner, solvents, and other debris or toxic material from entering a sewer or sewer structure including surface flow collection system, such as catch basins and culverts.
- C. Prior to the final inspection and acceptance, the Contractor shall check all storm water inlets and catch basins within the project limits for debris.

END OF SECTION

SECTION 01 60 00
PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 INCLUDED WORK

- A. Section includes procedures and requirements for material and equipment.

1.2 PRODUCTS

- A. Material and equipment incorporated in the Work shall be new, unless otherwise specified or indicated; in a condition acceptable to the City; and suitable for the use intended.
 - 1. Products may also include existing materials or components required for reuse.
- B. No material or equipment shall be used for any purpose other than that for which it is designed, specified, or indicated.

1.3 QUALITY ASSURANCE

- A. Include within Contractor's quality assurance program procedures for full protection of work and materials.

1.4 MANUFACTURER'S SERVICES

- A. Require material suppliers and product manufacturers to provide site representation on the request of the City for qualifying and verifying the use of their materials for the project purpose and conditions. Refer to Section 01 33 00 - Submittal Procedures for submittal requirements regarding manufacturer's instructions and certificates of satisfactory installation.

1.5 MANUFACTURERS' RECOMMENDATIONS

- A. Except as otherwise approved by the City, determine and comply with manufacturers' recommendations on product handling, storage, and protection.

1.6 DELIVERY

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Transport and deliver manufactured products, undamaged, in manufacturer's original, unbroken containers or packaging, clearly identified with manufacturer's name, product name, and instructions.
- C. Handle products to avoid soiling and damaging the products and their packaging.
- D. Immediately upon delivery, inspect shipments to assure compliance with the Contract Documents and reviewed submittals, and to verify that products are undamaged and properly protected from potential damage.
 - 1. Undamaged products shall be delivered to the project site in manufacturer's sealed containers or wrappings with legends and labels intact. Maintain packaged materials with seals unbroken and labels intact until time of use.
 - 2. Promptly remove damaged material and unsuitable items from the job site, and

- promptly replace with material meeting the specified requirements at no increase in Contract Sum.
3. Unsuitable materials and products not removed promptly from the job site by Contractor may be removed by the City. Removal costs shall be paid by Contractor.
 4. Identify materials and equipment delivered to the site to permit checking against Submittals and Shop Drawings.
- E. The City may reject as non-complying such material and products that do not bear identification satisfactory to the City as to manufacturer, grade, quality, and other pertinent information.

1.7 STORAGE

- A. Store materials and equipment at the site at Contractor's own risk. Because of location and visibility, on site storage shall be limited to materials and equipment currently being utilized or installed.
- B. Provide off-site storage and protection when site does not permit on-site storage or protection.
- C. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible.
- D. Store sensitive products in weather tight, climate controlled enclosures.
- E. Store fabricated products above the ground, on blocking or skids, to prevent soiling and staining of the products.
- F. Provide off-site storage and protection when site does not permit on-site storage or protection.
- G. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation or potential degradation of product.
- H. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- I. Arrange storage to facilitate inspection of products. Periodically inspect stored products to assure that products are maintained under specified conditions and free from damage and deterioration.
- J. Store products subject to damage from the elements in weather tight enclosures, maintaining temperature and humidity within the ranges specified by the manufacturers.
- K. Provide coverings as necessary to protect installed products from damage from traffic and construction operations; remove coverings when no longer needed.
 1. Take care to use protective covering and blocking materials which do not soil, stain, or damage materials being protected.

1.8 HANDLING

- A. Use means necessary to protect the materials of this Section before, during and after installation and to protect the installed work and materials of other trades.
 1. Protect finished surfaces, including jambs and soffits of openings used as passageways, through which equipment and materials are handled.

2. Provide protection for finished floor surfaces in traffic areas prior to allowing equipment or material to be moved over such surfaces
 3. Maintain finished surfaces clean, unmarred, and suitably protected until accepted by the City.
- B. Clean exposed materials at the time of acceptance of the installation for Substantial Completion.

1.9 REPAIRS AND REPLACEMENTS

- A. Promptly replace lost or damaged materials and equipment with replacements of like kind and quality or repair them at no additional cost to the City.
- B. Damage to any of the work and premises prior to acceptance by the City is the responsibility of Contractor. Should any new equipment become damaged, restore it to its original condition, and finish before final acceptance. Replace or repair damage to City property and to the work of other Divisions, caused by the work of this Division at the expense of, Contractor and to the City's satisfaction.
- C. Additional time required to secure replacements and to make repairs will not justify an extension in the contract time of completion.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 71 33

PROTECTION OF ADJACENT CONSTRUCTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Section includes requirements for protection of existing facilities and improvements.

1.2 RELATED SECTIONS

- A. Section 00 73 20 – Existing Utility Facilities
- B. Section 01 50 00 – Temporary Facilities and Controls

1.3 EXISTING UTILITIES AND IMPROVEMENTS

- A. Notify Underground Service Alert (USA) prior to excavating in the public right of way areas so that utility companies may be advised of the work and may field mark or otherwise protect and warn the Contractor of their existing utility lines. Contact USA, telephone 1-800-227-2600, or refer to USA website for more information at: <http://www.usanorth.org/>.
 - 1. Provide reasonable access and do not hinder or otherwise interfere with any company or agency having underground facilities in removing, relocating, or protecting such facilities.
- B. Verify the actual locations and depths of all utilities indicated or field marked. Make a sufficient number of exploratory excavations up to a maximum of eight potholes at Contractor's expense of all utilities that may interfere with the work sufficiently in advance of construction to avoid possible delays to Contractor's work.
 - 1. Notify the City if such exploratory excavations show the utility location as shown or as marked to be in error.
 - 2. When utility lines are encountered within the area of Contractor's operations, notify the City Representative and the owner(s) of the utility lines sufficiently in advance for the necessary protection measures to be taken to prevent interruption of service or delay to Contractor's operations.
- C. The Contractor shall protect all existing utilities, facilities, and structures, public or private, and will be held responsible for all damage caused by the Contractor not exercising due care to avoid such damage.
- D. Overhead Contact System: Work on or under the overhead contact system shall be performed with lines and feeders energized unless shutdown of the system is granted. Notify the City Representative at least 10 days prior to performing work on energized overhead trolley wires, feeder circuits, or at substations, so that the City Representative may arrange for any necessary clearances and inspections.
 - 1. Contractor is alerted to the condition that overhead trolley wires and feeder cables distribute electrical energy at up to 700 Volts dc. Comply with the "High Voltage" provisions of the California Code of Regulations (Title 8, Division 1, Chapter 4, and Subchapter 5).
 - 2. Take precautions to avoid accidents and damage to the overhead contact wires, and riser and feeder cables.

- E. Survey Monuments and Bench Marks: Contractor shall bring to the attention of the City Representative all survey monuments, bench marks, property line marks and the like, encountered on the work. Survey monuments, bench marks, or other survey marks or points shall not be removed or disturbed until referenced or relocated by the City Representative or other agency or party having an interest therein, and then removed only at the time and in the manner specifically approved by the City Representative. The contractor shall bring all City monument frames within the limits of the work to grade, with the express provision that any and all work associated with the removal and relocation of such frames, with their covers, shall be under the direct supervision of the City Representative, and all such work shall be considered Incidental Work. The cost of re-establishing and resetting survey monuments, bench marks or other survey marks or points lost or destroyed through the carelessness or negligence of, or inadvertently by, the Contractor or his employees, shall be at the sole expense of the Contractor.

1.4 SAFEGUARDING OF EXISTING FACILITIES

- A. The Contractor shall perform all work, including dewatering operations, in such a manner as to avoid damage to existing fire hydrants, power poles, lighting standards, and all other existing utilities, facilities, trees and vegetation, and structures. The Contractor will be held responsible for any damage due to its failure to exercise due care.
- B. Broken concrete, debris, etc., shall be immediately removed from the property site as the Contractor's property and shall be disposed of in a legal manner.
- C. The Contractor shall take adequate measures to prevent the impairment of the sewer system and to prevent construction material, pavement concrete, earth or other debris from entering a sewer, sewer structures, catch basin, or storm water inlet. The Contractor shall restore damaged utilities and facilities to a condition equal to or better than they were prior to such damage.

1.5 RESTORATION OF PAVEMENT

- A. General: All paved areas cut or damage during construction shall be replaced with similar materials and of equal thickness to match the existing undisturbed areas, except where specific resurfacing requirements are called for in the Contract Documents or in the permit requirements of the agency issuing the permit. All pavements which are subject to partial removal shall be neatly saw cut in straight lines.
- B. Temporary Resurfacing: Whenever required by the public authorities having jurisdiction, place temporary surfacing promptly after backfilling and maintain such surfacing in a satisfactory condition for the period of time before proceeding with the final restoration.
- C. Permanent Resurfacing: Damaged edges of pavement along excavations and elsewhere shall be trimmed back by saw cutting in neat straight lines. All pavement restoration shall be constructed to finished grades compatible with undisturbed adjacent pavement.
- D. Restoration of Sidewalks or Driveways: Wherever sidewalks, curbs and gutters, or driveways have been removed for construction purposes, place suitable temporary sidewalks, curbs and gutters, or driveways promptly after backfilling and maintain them in satisfactory condition for the period of time before the final restoration is been made.

1.6 JOINT SURVEY TO ESTABLISH AUTHENTICITY OF POSSIBLE CLAIMS

- A. The Contractor shall use such methods and shall take adequate precautions to prevent damage to existing buildings, structures, and other improvements during the prosecution of the work.

- B. The Contractor shall retain an experienced photographer to perform preconstruction examination and, if necessary, post-construction survey of all nearby structures, including **photographs of all catch basins within the limit of work and nearby intersections. Each catch basin shall have at least two photos, one from the top view, and one from the side view along the gutter line.** The survey shall be made using digital still photographs or digital videos saved to compac discs. The survey shall be considered incidental work and no separate payment will be made therefor.
- C. After the Contract is awarded and before the commencement of work, the City Representative will arrange for a joint examination of existing buildings, structures and other improvements in the vicinity of the work, as applicable, which might be damaged by the Contractor's operations.
- D. The examination of the exterior of existing buildings, structures, and other improvements located within twenty-five (25) feet of the construction excavation will be made jointly by authorized representatives of the Contractor, the City, and property owners under the supervision of the City Representative. The scope of each examination shall include, but is not limited to, recording of cracks in structures, settlement, leakage and the like.
- E. Records in duplicate of all observations will be prepared by the photographer, including photographs on compact discs as required. One copy shall be delivered to the Contractor, and one copy will be kept on file at the office of the City Representative. The photographer may be required to attest to the fact that he took the pictures; however, in no case, will he determine the cause cracks, settlement, leakage, or like condition nor is he being retained for the purpose of engineering evaluation.
- F. The above records and photographs are intended for use as indisputable evidence in ascertaining the extent of any damage which may occur as a result of the Contractor's operations and are for the protection of the adjacent property owners, the Contractor, and the City, and will be a means of determining whether and to what extent damage, resulting from the Contractor operations, occurred during the Contract Work.

1.7 UNFORESEEN EXISTING UTILITIES

- A. Refer to Section 00 73 20 – Existing Utility Facilities, Paragraph 1.3.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 74 50

CONSTRUCTION & DEMOLITION DEBRIS RECOVERY PLAN
(ver. 7/9/2014)

PART 1 - GENERAL

1.1 SUMMARY

- A. In October 16, 2006, the San Francisco Mayor issued Executive Directive 06-05 requiring all Construction Contracts to divert 75% of construction and demolition debris from landfill disposal sites. This directive is supported by existing policies that require reuse, recycling, and management of construction and demolition debris. Some of these policies are described below.
- B. The City and County of San Francisco adopted an ordinance (No. 27-06) that creates a mandatory program to maximize the recovery of all construction and demolition debris material.
 - 1. The Ordinance requires that mixed construction and demolition debris material be transported off-site by a Registered Transporter and taken to a Registered Facility that can process and divert from landfill a minimum of 65% of the material generated from construction, demolition or remodeling projects.
 - 2. Material source separated at the job site should be taken to a facility that reuses or recycles such material.
 - 3. This ordinance applies to all construction projects within the City and County of San Francisco, such as new construction, remodels, tenant improvements, additions, repairs, and full and partial demolitions.
 - 4. This ordinance prohibits any construction and demolition debris from being placed in trash or sent to a landfill.
- C. Chapter 7 of the San Francisco Environment Code requires the Contractor to prepare and submit a Construction and Demolition Debris Management Plan, Construction and Demolition Debris Recovery Monthly Summary of Diversion Reports, and Construction and Demolition Debris Recovery Final Diversion Report in accordance with the submittal requirements specified below (Paragraphs 1.5, 1.6 and 1.7). This requirement applies to all Construction and/or Demolition Projects at City-owned Facilities and City leaseholds, located within the nine counties surrounding the San Francisco Bay, regardless of the size of the project.
- D. Chapter 5 of the San Francisco Environment Code requires the Contractor to reduce wastes by maximizing the use of recycled content materials, recycling, and reuse. Failure of the Contractor to comply with any of its requirements shall be deemed a material breach of contract.
- E. The Mandatory Recycling and Composting Ordinance, Chapter 19 of the San Francisco Environment Code, requires that all persons in San Francisco must source separate their refuse into recyclables, compostables and trash, and place each type of refuse in a separate container designated for disposal of that type of refuse. No person may mix recyclables, compostables or trash, or deposit refuse of one type in a collection container designated for another type of refuse.
- F. California Integrated Waste Management Act of 1989 (AB 939) established the procedures for the Highest and Best Use practices to reduce, recycle, and reuse materials.

- G. State regulations require that Universal Wastes and Treated Wood Wastes be handled and disposed of in accordance with the requirements of the California Department of Toxic Substances Control and all applicable laws.
- H. Contractor shall perform all work and meet all requirements in this Section at no additional cost to the City.

1.2 REFERENCES

- A. Mayor's Executive Directive 06-05, Recycling and Resource Conservation, October 16, 2006.
- B. San Francisco Ordinance No. 27-06 (Construction and Demolition Debris Recovery Ordinance) with effective date on July 1, 2006.
- C. San Francisco Environment Code, Chapter 5, Resource Conservation Ordinance.
- D. San Francisco Environment Code, Chapter 7, Green Building Requirements for City Buildings.
- E. San Francisco Environment Code, Chapter 19, Mandatory Recycling and Composting.
- F. California Integrated Waste Management Act of 1989 (California Public Resources Code 40000 et. seq.) - Assembly Bill 939.
- G. Leadership in Energy and Environmental Design (LEED) for New Construction, Version 2009, or more recent version of LEED, US Green Building Council.
- H. Universal Waste information from the following website: <http://www.ciwmb.ca.gov/HHW/Uwaste/>
- I. Treated Wood Waste Fact Sheet from the following website: http://www.dtsc.ca.gov/HazardousWaste/Treated_Wood_Waste.cfm
- J. San Francisco Board Of Supervisors Resolution Nos. 530-04 and 679-02 establishing a zero waste goal.
- K. Food Service Waste Reduction Ordinance as set forth in San Francisco Environment Code Chapter 16.
- L. Refuse Collection and Disposal Ordinance, adopted November 8, 1932.

1.3 DEFINITIONS

- A. Alternative Daily Cover (ADC): Materials, other than soil, that have been approved by the California Department of Resources Recycling and Recovery ("CalRecycle") or a successor agency for use as a temporary overlay on an exposed landfill face.
- B. Beneficial Reuse: The reuse of material at a landfill that does not include ADC but shall include, but not be limited to, use of the material for or as the following: alternative intermediate cover; final cover foundation layer; liner operations layer; leachate and landfill gas collection system; construction fill; road base; wet weather operations pads and access roads; and, soil amendments for erosion control and landscaping. "Beneficial reuse" does not include disposal of material at a landfill.

- C. BioMass Energy Generation: the controlled combustion, when separated from other solid waste and used for producing electricity or heat, of wood, wood chips, wood waste, and tree and brush prunings. "Bio-mass Energy Generation" does not include the controlled combustion of recyclable pulp or recyclable paper materials, or medical or hazardous waste.
- D. City-owned Facility: any building owned by the City and County of San Francisco. "City-owned Facility" includes City-owned facilities or portions thereof that the City leases to non-City entities.
- E. City Leasehold: A building or portion thereof owned by others where the City and County of San Francisco is a tenant.
- F. City Representative: The employee of San Francisco who oversees the construction and/or demolition process for a City construction and/or demolition project and is responsible for ensuring that the contractor complies with all aspects of the contract documents.
- G. Compostable: Any material that can be broken down into, or otherwise become part of, usable compost (e.g., soil-conditioning material) in a safe and timely manner as accepted in San Francisco's compostables collection program, such as food scraps, soiled paper and plant trimmings.
- H. Construction and Demolition Debris or C&D Debris: Building materials and solid waste generated from construction and demolition activities, including, but not limited to, fully cured asphalt, concrete, brick, rock, soil, lumber, gypsum wallboard, cardboard and other associated packaging, roofing material, ceramic tile, carpeting, fixtures, plastic pipe, metals, tree stumps, and other vegetative matter resulting from land clearing and landscaping for construction, deconstruction, demolition or land developments. This term does not include refuse regulated under the 1932 Refuse Collection and Disposal Initiative Ordinance or sections of the Municipal Code that implement the provisions of that ordinance or materials from the public right-of-way. Hazardous waste, as defined in California Health and Safety Code section 25100, et seq., as amended, is not Construction and Demolition Debris.
- I. Construction Project: Any building, planning or construction activity, including demolition, new construction, major alteration, or building additions by a City department at a City-owned Facility or a City Leasehold.
- J. Contractor: The company or person to whom the City awards a contract for a construction and/or demolition project. The Contractor is responsible for complying with all aspects of this Specifications Section and for ensuring that all subcontractors, lower-tier subcontractors and suppliers also comply.
- K. Disposal: The final deposition of material at a legally operating permitted landfill that does not include beneficial reuse or at a permitted transformation facility. A legally operating, permitted landfill includes Class III landfills and inert fills. Disposal of inert materials at inert fills or inert backfill sites does not constitute recycling.
- L. Diversion: Use of material for any purpose other than disposal in a landfill or transformation facility, such as source reduction, reuse, recycling, and composting activities that do not result in material being disposed at permitted landfills and transformation facilities.

- M. Hazardous Waste: Hazardous waste is a waste with properties that make it potentially dangerous or harmful to human health or the environment. The universe of hazardous wastes is large and diverse. Hazardous wastes can be liquids, solids, or contained gases. They can be the by-products of manufacturing processes, discarded used materials, or discarded unused commercial products, such as cleaning fluids (solvents) or pesticides. In regulatory terms, a hazardous waste is a waste that appears on one of the four RCRA hazardous wastes lists (the F-list, K-list, P-list, or U-list) or that exhibits one of the four characteristics of a hazardous waste - ignitability, corrosivity, reactivity, or toxicity. However, materials can be hazardous wastes even if they are not specifically listed or don't exhibit any characteristic of a hazardous waste. For example, "used oil," products which contain materials on California's M-list, materials regulated pursuant to the mixture or derived-from rules, and contaminated soil generated from a "clean up" can also be hazardous wastes. The State Department of Toxic Substances Control offers assistance on this complex topic through its Regulatory Assistance Office. Call 1-800-728-6942 (from within California) or (916) 255-3618 (from out-of-state) or email RAO@dtsc.ca.gov
- N. Inert Fill Facility: A facility that can legally accept inert waste such as asphalt and concrete exclusively for the purpose of disposal.
- O. Landfill: A facility that (i) accepts for disposal in or on land non-hazardous waste such as household, commercial, and industrial waste, and waste generated during construction, remodeling, repair and demolition operations, and (ii) has a valid current solid waste facilities permit from the California Department of Resources Recycling and Recovery (CalRecycle).
- P. Mixed Construction and Demolition Debris Material, or Mixed C&D Debris Material, or Mixed C&D Debris: means Construction and Demolition Debris or C&D Debris, but excluding materials source-separated for reuse or recycling.
- Q. Person: A natural person, a firm, joint stock company, business concern, association, partnership or corporation or, to the extent permitted by law, governmental entity, including the City and County of San Francisco and its departments, boards and commissions for projects within the nine counties surrounding the San Francisco Bay, and its or their successors or assigns.
- R. Recover or Recovery: Any activity, including source reduction, deconstruction and salvaging, reuse, recycling and composting, which causes materials to be recovered for use as a resource and diverted from disposal.
- S. Recyclable Material: Any material or product separated or capable of being separated at its point of discard or from the solid waste stream for utilization as a raw material in the manufacture of a new product.
- T. Recycling: The process of collecting, sorting, cleansing, treating, and reconstituting materials that would otherwise become solid waste, and returning them to the economic mainstream in the form of raw material for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace. Recycling does not include burning, incinerating, or thermally destroying solid waste.
- U. Recycling Facility: An operation or person that collects and processes materials for recycling.
- V. Registered Transporter: Anyone who is hired to remove Mixed Construction and Demolition Debris Material from a construction and/or demolition site in San Francisco, using a vehicle with more than two axles or two tires per axle (such as a large pickup

truck with four tires on the rear axle or three-axle dump trucks) and is hauling at least one (1) cubic yard of Mixed Construction and Demolition Debris Material and holds a valid registration from the City and County of San Francisco pursuant to Chapter 14 of the Environment Code. A Registered Transporter is obligated to take all mixed material only to a Registered Facility.

- W. Registered Facility: Any facility that accepts Mixed Construction and Demolition Debris Material for processing and recycling and holds a valid registration issued by the City and County of San Francisco pursuant to Chapter 14 of the Environment Code.
- X. Reuse: Making new use of a material without altering its form.
- Y. Source Reduction: Any action which causes a net reduction in the generation of solid waste. Source reduction includes, but is not limited to, reducing the use of non-recyclable materials, replacing disposable materials and products with reusable materials and products, reducing packaging, reducing the amount of yard wastes generated, establishing garbage rate structures with incentives to reduce waste tonnage generated, and increasing the efficiency of the use of paper, cardboard, glass, metal, plastic, and other materials.
- Z. Source-Separated Materials: Materials that have been separated or kept separate from the solid waste stream, at the point of generation, for the purpose of reuse, recycling or composting in order to return them to the economic mainstream in the form of raw material for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace.
- AA. Solid Waste: Materials designated as non-recyclable and discarded for the purposes of disposal.
- BB. Universal Waste (CCR Title 22, Division 4.5, Chapter 23): Certain specified hazardous wastes that are more common and pose a lower risk to people and the environment than other hazardous wastes. Universal wastes are handled with reduced management requirements. Examples of universal waste: batteries, fluorescent tubes (lamps), electronic devices (cell phones, computers, televisions), cathode ray tubes (CRTs), mercury wastes (thermometers and toys), and non-empty aerosol cans.
- CC. Treated Wood Waste (CCR Title 22, Division 4.5, Chapter 34): Dimensional lumber and other wood products which have been removed from service and were treated with preserving chemicals that protect the wood from insect attack and fungal decay during its use. Examples include fence posts, sill plates, landscape timbers, pilings, railroad ties, guardrails, and decking. Treated Wood Waste is a hazardous waste in California and must be managed according to specific regulations.

1.4 GENERAL REQUIREMENTS

- A. Diversion Goal: In order to meet the City's zero waste goal, the goal for this contract is to divert 75% of the Construction and Demolition Debris material from landfill disposal through waste prevention, reuse, and recycling. If a construction site contains hazardous wastes and/or universal wastes, the 75% diversion requirement should pertain to all non-hazardous waste material. No Construction and Demolition Debris material shall be disposed in garbage or taken to landfill.
- B. In order for construction and/or demolition debris to be considered hazardous, such as containing asbestos or lead, it shall be evaluated and determined to be hazardous by an independent professional such as a Cal/OSHA Certified Asbestos Consultant. The waste determination and other verification shall be included with the C&D Debris

Management Plan (refer to Paragraph 1.5 below), together with a list of hazardous materials found at the project site and plans for proper disposal.

- C. If material at the jobsite is deemed hazardous after the project commences, complete Form A (Request to Send Construction & Demolition Debris Material Directly to Landfill), together with official documentation as noted above in subparagraph B and send signed form to City Representative and to San Francisco's Department of the Environment (SFE) for possible approval.
- D. All Hazardous Wastes, including Universal Wastes and Treated Wood Waste, shall be documented separately, and a summary of all manifests or other disposal documentation, including material description and weights, shall be provided to the City Representative.
- E. Highest and Best Use: The Contractor shall employ the following hierarchy of highest and best use for handling Construction and Demolition Debris as follows:
1. Implement reduced material usage or reuse of materials before any recycling;
 2. Implement recycling or reuse of source-separated material before any recycling of Mixed Construction and Demolition Debris Material;
 3. Implement recycling of Mixed Construction and Demolition Debris Material before all other forms of disposal.
- F. Recycling Requirements:
1. Source Separated Materials: The Contractor shall develop and implement procedures for source-separation, to the greatest extent feasible, of the following types of recyclable or reusable materials:
 - a. Asphalt.
 - b. Acoustical ceiling tiles.
 - c. Bricks, stone(s), granite, and other finished stone-type materials.
 - d. Carpet and padding.
 - e. Concrete, concrete block, slump stone (decorative concrete block).
 - f. Corrugated cardboard.
 - g. Dimensional lumber and beams.
 - h. Fixtures, hardware, doors, and windows.
 - i. Metal, ferrous and non-ferrous.
 - j. Mixed Inerts.
 - k. Rigid plastic.
 - l. Soil/dirt/rock.
 - m. Trees, Landscape Debris, cleared vegetation and cut-off or other wood scraps.
 - n. Wall board, gypsum sheetrock.
 - o. Other: describe.
 2. Mixed Construction & Demolition Debris Material:
 - a. For projects within the legal and geographical boundaries of the City and County of San Francisco, Mixed C&D Debris Material must be taken to a Registered Facility by a Registered Transporter, per Environment Code 14. The diversion rate for Mixed C&D Debris Material taken to one of San Francisco's Registered Facilities is 65%.
 - b. For projects outside San Francisco, the diversion rate for Mixed C&D Debris Material is 65% if taken to one of San Francisco's Registered Facilities; if taken to a non-registered facility the diversion rate approved by the local jurisdiction will be used, and official documentation of the diversion rate approved by the local jurisdiction must be provided by the Contractor. If a facility does not have a locally approved recycling rate, the diversion rate is calculated as zero.
 3. Handling Of Recyclable Materials:

- a. The Contractor shall assure that recyclable or reusable materials be free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process. The Contractor shall clean materials that are contaminated before placing it in collection containers.
 - b. The Contractor shall arrange for collection of reusable and recyclable materials by or delivery to the appropriate reuse and/or recycling centers for purposes of reuse and/or recycling.
 - c. All Mixed C&D Debris material from projects in San Francisco must be taken to a Registered Facility authorized to process the material, and it must be hauled by a Registered Transporter.
4. No Construction and Demolition Debris shall be burned, buried or otherwise disposed of on the project site.
- G. The Contractor is prohibited from sending any C&D debris material directly to landfill or to any facility that would incinerate or otherwise process such debris using high temperature technology without submitting a written request to and receiving approval from the San Francisco Department of the Environment; see Form A and Form B.
- H. Requirements only for Construction Contracts within the legal and geographical boundaries of the City and County of San Francisco:
1. Registered Transporters and Registered Facilities: Only Registered Transporters can remove mixed construction and demolition debris from a construction and/or demolition site, and they must take this material to a Registered Facility. Materials source separated at the job site should be taken to an appropriate recycling or reuse facility.
 - a. For a list of Registered Facilities and Registered Transporters refer to the website: www.SFEnvironment.org/c&d
 - b. Diversion rate for mixed C&D debris material taken to Registered Facilities is 65%.
 2. Full Demolition Requirements: Contractor conducting full demolition of an existing structure must submit a Demolition Debris Recovery Plan (DDRP) to the San Francisco Department of the Environment (SFE).
 - a. The DDRP must demonstrate a minimum of 65% diversion from landfill of demolition debris, including materials source separated for reuse or recycling.
 - b. The DDRP must be submitted to and approved by SFE before the Department of Building Inspection will issue a Full Demolition Permit.
 - c. This requirement does not apply to City construction contracts outside of the legal and geographical boundaries of the City and County of San Francisco.
 - d. The DDRP is available at the following website: www.SFEnvironment.org/c&d
- I. Mixed Construction & Demolition Debris material from projects outside the legal and geographical boundaries of the City and County of San Francisco must be taken to a Recycling Facility that processes the material to achieve maximum recycling. If the facility is a San Francisco Registered Facility the diversion rate is 65%. If the material is taken to a facility not registered with San Francisco, the local jurisdiction's recycling rate for that facility shall be used provided official documentation from the local jurisdiction is attached to all submittals as required in Paragraphs 1.5, 1.6 and 1.7. If a facility does not have a local approved recycling rate, the diversion rate is calculated as zero.
- J. Universal Wastes: Contractor shall handle and dispose of all hazardous waste, including "Universal Wastes," in accordance with the requirements of the California Department of Toxic Substances Control (DTSC). Refer to DTSC website: www.dtsc.ca.gov . In general, universal waste may not be discarded in solid waste landfills or with non-hazardous

wastes collected for recycling or composting. Contractor shall comply with all hazardous waste regulations, including, but not limited to, the following:

1. Universal wastes shall be stored in containers so that they do not spill, leak, break, or are released into the environment.
2. Label or mark universal wastes, or their containers, to identify their types.
3. Send all universal waste to a facility authorized to collect, recycle or dispose of universal waste.
4. Do not dispose of universal waste in the trash.
5. Do not accumulate more than 5,000 kilograms of universal waste at any one time.
6. Train employees in proper universal waste management including handling, packaging, storing and labeling the universal waste, as well as how to respond to releases. This training may be accomplished by simply giving employees written instructions about universal waste.
7. Keep record of all shipments and receipts of universal waste for three years.

K. Treated Wood Waste: For complete information on handling and disposal of Treated Wood Waste (TWW), refer to the fact sheet available from the DTSC website. For incidental TWW wastes generated during construction, the Contractor shall comply with the following minimum requirements:

1. Keep TWW segregated from other materials.
2. Store no more than 1,000 pounds of TWW for no longer than 30 days. In the event that Contractor stores more than 1,000 pounds of TWW or stores TWW for more than 30 days, Contractor shall comply with additional requirements for routine generators of TWW. Refer to DTSC fact sheet.
3. Label all TWW bundle/shipments with the following information:

| |
|--|
| <p><i>TREATED WOOD WASTE – Do not burn or scavenge.</i></p> <p><i>TWW Handler</i> <i>Name:</i> _____ <i>Address:</i> _____ <i>Accumulation Date:</i> _____</p> |
|--|

4. Take TWW to an authorized TWW facility. See the listings at the end of the factsheet for information on facilities who have been authorized to accept TWW in California.
5. Keep records of all shipments of TWW for three years.

L. Waste Reduction: Contractor shall implement waste reduction measures, including, but not limited to, the following:

1. Eliminating the procurement of unneeded supplies;
2. Reduce waste by printing and copying double-sided;
3. Submit all submittals, reports, and forms in electronic format (PDF);
4. Fully participate in available and required recycling and composting programs; and
5. Purchase products made with recycled content such as paper and recycled aggregate.

M. LEED Credit: Compliance with the 75% diversion goal meets the requirements of LEED MR Credit 2.2 and earns the Project 2 points.

N. Contractor shall submit the following in accordance with Paragraphs 1.5, 1.6, and 1.7 below:

1. Construction and Demolition Debris Management Plan;
2. Construction and Demolition Debris Recovery Monthly Summary of Diversion and supporting documentation.

3. Construction and Demolition Debris Recovery Final Diversion Report.
- O. Contractor shall submit the above items in electronic format (PDF) to the City Representative.

1.5 CONSTRUCTION AND DEMOLITION DEBRIS MANAGEMENT PLAN

- A. The requirements under this Paragraph 1.5 apply to all City construction contracts for City-owned Facilities or City leaseholds located within the nine counties surrounding the San Francisco Bay, regardless of size of the project.
- B. After Award of Contract and before commencement of the Work at the site, the Contractor shall conduct a site assessment to estimate the types and quantities of materials that will be generated by construction and/or demolition at the site and which materials are anticipated to be feasible and practical for reuse and recycling. Contractor shall complete a Construction and Demolition Debris Management Plan (CDDMP) to be discussed with the City Representative.
- C. Contractor shall schedule a meeting with the City Representative to discuss its proposed CDDMP so as to develop a mutual understanding regarding the City's recycling and reuse policies and goals and their application to this project. The contractor must manage all project C&D debris materials to meet a minimum diversion rate of 75%.
- D. Contractor shall obtain tonnage estimates for all C&D debris material from all subcontractors and compile data from all subcontractors into a written and signed CDDMP in a format prescribed by the City. The plan shall include, but not be limited to, the following:
 1. The Contractor's information and Project identification.
 2. Procedures to be used for debris management.
 3. A list of the materials and estimated quantities to be reused, recycled, or transported to a Registered Facility.
 4. The names, locations, and permit or license, as applicable, of recycling and reuse facilities and Registered Facilities (for mixed debris) that the Contractor plans to use for this project.
 5. Procedures for source separation for the materials listed in subparagraph 1.4F "Recycling Requirements" of this Section.
 6. Source Reduction: Describe any project practices for this project which will reduce waste at the source, such as requiring vendors to deliver materials in reusable packaging.
 7. On-site Processing: Describe procedures in which materials are recycled and/or reused on-site, such as grinding materials for use on-site, or reuse of lumber for concrete frames, etc.
 8. Procedures to educate and train all employees and subcontractors on recycling and reuse procedures to be used at the jobsite.
- E. Use Form C (Construction & Demolition Debris Recovery Worksheet) and check the first box in the center of page 1 on the form. Provide estimated start and end dates for the project. A written narrative should be attached to the form describing project and job site practices and procedures as noted in subparagraph 1.5D above
- F. The CDDMP is subject to approval by the City Representative. Contractor shall revise and resubmit the CDDMP as required by the City Representative.
- G. If an unforeseen circumstance requires a change to the facilities or transporters named and approved on the original CDDMP, the Contractor must submit a written request to the City Representative for approval prior to the change being made; a copy should be

sent to the Department of Environment. The request must provide documentation explaining why the change may be necessary. Use Form D (Request to Change Facilities or Transporters), and complete all sections of the form. If any section is omitted, the request will not be considered.

- H. Review of the Contractor's construction and demolition debris management plan will not relieve Contractor of responsibility for compliance with applicable laws and regulations governing control and disposal of solid waste or other pollutants.
- I. In accordance with the Mayor's Directive 06-05 and Chapter 7 of the Environment Code, Contractor shall achieve a diversion rate of 75%.

1.6 CONSTRUCTION AND DEMOLITION DEBRIS RECOVERY MONTHLY SUMMARY OF DIVERSION

- A. Contractor shall submit a signed Summary of Diversion (Summary) to the City Representative with each Progress Payment Application. The Summary shall show actual Construction and Demolition Debris material diversion coinciding with the time period of the Progress Payment. The contractor shall compile data from all subcontractors into one plan/report; all weights are reported in tons and documentation supporting the reported tons shall be attached. Documentation shall include weight tags or other similar proof the hauler received from a facility where material was transported; if a facility issues a receipt with cubic yards only, the contractor shall use the Conversion Rates found in Form E. The documentation issued by the facility shall include the commodity or material type that was delivered to the facility and shall include evidence that the material was from the contracted job; such evidence may include the project address or project/job number provided by the facility on the weight tags or receipts it creates. Diversion reports prepared by vendors, work orders or invoices for services shall not be acceptable unless accompanied by requirements noted above. Use Form C (Construction & Demolition Debris Recovery Worksheet) and check the second box in the center of page 1 of the form and provide the Reporting Period and Progress Payment Number.
- B. Failure to submit the Summary of Diversion and supporting documents shall render the application for progress payment incomplete and delay progress payment.
- C. Contractor shall be responsible for transporting all Mixed C&D Debris Material generated in San Francisco to a Registered Facility by using a Registered Transporter.

1.7 CONSTRUCTION AND DEMOLITION DEBRIS RECOVERY FINAL DIVERSION REPORT

- A. The Contractor shall submit a signed Final Diversion Report showing weight of all Construction and Demolition Debris material diverted for the entire project and the overall diversion rate achieved. Use Form C (Construction & Demolition Debris Recovery Worksheet) and check the third box in the center of page 1 of the form. The Final Diversion Report shall be prepared into one plan/report by the Contractor with data from all subcontractors and submitted to the City Representative.

1.8 JOB SITE ADMINISTRATION

- A. The Contractor shall review the environmental goals of this project with all subcontractors and sub-subcontractors. The Contractor shall make a proactive effort to increase awareness of these goals and ensure full compliance to the Construction and Demolition Debris Management Plan among the Contractor's job site workers and all subcontractors and other workers.

- B. The Contractor shall communicate the presence of demolition debris which is hazardous waste to all workers on the job site and shall establish and clearly identify hazardous waste storage areas. The Contractor shall discuss practices and alternatives to minimize worker exposure to potentially harmful substances expected to be encountered on the job site.
- C. For Construction Contracts within the legal and geographical boundaries of the City and County of San Francisco the Contractor shall provide green, blue and black refuse containers and appropriate signs for field offices to separate recyclable and compostable materials from the trash and subscribe to adequate collection services. To subscribe to these services, contact Recology San Francisco at 415-330-1300. For assistance in setting up recycling and composting programs (i.e. signs and training) in field offices, contact: SFGovRecycling@SFEnvironment.org
- D. For projects outside the legal and geographical boundaries of the City and County of San Francisco, Contractor shall abide by local jurisdiction's refuse, recycling and composting requirements.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION



FORM A
REQUEST TO SEND CONSTRUCTION & DEMOLITION DEBRIS MATERIAL
DIRECTLY TO LANDFILL

City and County of San Francisco

Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

Environment Code Chapter 7 Section 708(a)(3) states that a contractor is prohibited from sending any Construction & Demolition (C&D) debris material directly to a landfill without submitting a request to and receiving approval from the Department of the Environment. This request form must demonstrate that all reuse and recycling options for the material have been evaluated and determined to be not possible.

Section 1: Project Information
City Department:
1. Project Name:
2. Project/Job Number:
3. Reporting Period:
4. Project Street Address:
5. City & County (if not in SF):
6. Contractor's Company Name:
7. Contractor's Address:
8. City, State, Zip Code:
9. Contractor's Contact:
10. Contact's Title:
11. Office Phone:
12. Cell Phone:
13. e-mail:

Section 2: Request Information
15. Type of Request (please check):
Initial Request. Submit to the City Representative with the Construction & Demolition Debris Management Plan (CCDMP), and send a copy to the Department of Environment for review and possible approval.
Request due to unforeseen circumstances occurring during the project affecting disposition of the material. Send to City Representative and to the Department of Environment for review and possible approval.
16. Material Description:
Type of Material:
Approximate Tons:
Why can't this material be reused or recycled?
What landfill do you intend to use (Name & Location)
17. Provide a comprehensive & detailed description of all efforts you (and/or your subcontractors) have made to find a location to take this material for reuse or recycling. List must include names and locations of all facilities contacted to take the material, name of person(s) you spoke with, date of conversation, and why the material was refused. If the material was deemed hazardous after the project commenced, please provide official documentation from an independent professional (See Env Code Chapt 7, Sec 708(a)(6) for complete requirements). Attach an additional sheet if necessary.

18. Provide information and attach documentation on how this material will be used at the landfill. Your request must demonstrate that the material will be used for beneficial reuse, if possible, before any material is used as alternative daily cover (ADC), and that material is used as landfill disposal only as a last resort if necessary. Please include documentation such as a written statement by the landfill operator that the material will be used as designated.

19. I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING AND INFORMATION IN ALL ATTACHMENTS ARE TRUE AND CORRECT AND THE MATERIAL DESCRIBED WILL BE HANDLED AS NOTED IF THIS REQUEST IS APPROVED.

Submitted by: _____ Title: _____

Signature: _____ Date: _____

Submittal Instructions:

Initial Request: Submit completed and signed form to the City Representative with the Construction & Demolition Debris Management Plan (CCDMP) and send a copy to the Department of Environment for review and possible approval.

Request due to unforeseen circumstances occurring during the project affecting disposition of the material: Send completed and signed form to City Representative and to the Department of Environment for review and possible approval.

Submit completed and signed form to: Department of the Environment, 1455 Market St, Suite 1200, San Francisco, CA 94103. Attention: C&D Landfill Request. Or email: mary.williams@sfgov.org

For questions regarding completion of this request, please call the Department of the Environment at (415) 355-3700.

FOR OFFICIAL CITY USE ONLY

DATE REQUEST RECEIVED _____

APPROVED _____ NOT APPROVED _____ DATE _____

COMMENTS _____

NAME _____ SIGNATURE _____ TITLE _____



FORM B
REQUEST TO SEND CONSTRUCTION & DEMOLITION DEBRIS MATERIAL
TO BIOMASS ENERGY GENERATION FACILITY

City and County of San Francisco

Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

Environment Code Chapter 7 Section 708(a)(4) states that a contractor is prohibited from sending any Construction & Demolition (C&D) debris material directly to any facility that would incinerate such debris or otherwise process such debris using high temperature technology, unless the debris is used as boiler fuel in BioMass Energy Generation, which will only be allowed after the contractor has submitted a request to and received approval from the Department of the Environment. Types of material acceptable for BioMass Energy Generation are wood, wood chips, wood waste and tree and brush prunings. This request must demonstrate that all reuse and recycling options for the material have been evaluated and determined to be not possible.

Section 1: Project Information
City Department:
1. Project Name:
2. Project/Job Number:
3. Reporting Period:
4. Project Street Address:
5. City & County (if not in SF):
6. Contractor's Company Name:
7. Contractor's Address:
8. City, State, Zip Code:
9. Contractor's Contact:
10. Contact's Title:
11. Office Phone:
12. Cell Phone:
13. e-mail:

Section 2: Request Information
14. Material Description:
Type of Material (wood, wood chips, wood waste, tree or brush prunings):
Approximate Tons:
What facility do you intend to use (Name & Location)?
Why can't this material be reused or recycled?
15. Provide a comprehensive & detailed description of all efforts you (and/or your subcontractors) have made to find a location to take this material for reuse or recycling. List must include names and locations of all facilities contacted to take the material, name of person(s) you spoke with, date of conversation, and why the material was refused. Attach a separate sheet if necessary.

16. I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING AND INFORMATION IN ALL ATTACHMENTS ARE TRUE AND CORRECT AND THE MATERIAL DESCRIBED WILL BE HANDLED AS NOTED IF THIS REQUEST IS APPROVED.

Submitted by: _____ Title: _____

Signature: _____ Date: _____

Submittal Instructions:

Submit completed and signed form to: Department of the Environment, 1455 Market Street, Suite 1200, San Francisco, CA 94103. Attention: C&D BioMass Energy Request. Or email: mary.williams@sfgov.org

For questions regarding completion of this request, please call the Department of the Environment at (415) 355-3700.

FOR OFFICIAL CITY USE ONLY

DATE REQUEST RECEIVED _____

APPROVED _____ NOT APPROVED _____ DATE _____

COMMENTS _____

NAME _____ SIGNATURE _____
TITLE _____



FORM C

CONSTRUCTION & DEMOLITION DEBRIS RECOVERY WORKSHEET

City and County of San Francisco

Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

Section 1: Project Information. City Department: 1. Project Name: 2. Project/Job Number: 3. Reporting Period: 4. Project Street Address: 5. City & County (if not in SF): 6. Contractor's Company Name: 7. Contractor's Address: 8. City, State, Zip Code: 9. Contractor's Contact: 10. Contact's Title: 11. Office Phone: 12. Cell Phone: 13. e-mail: I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOLLOWING IS TRUE AND CORRECT. I AGREE TO USE THE FACILITIES AND TRANSPORTERS NAMED ON THE ORIGINAL PLAN, AND I UNDERSTAND I AM RESPONSIBLE FOR COMPLIANCE BY ALL SUBCONTRACTORS. IF CHANGES ARE NECESSARY TO THE ORIGINAL PLAN, WRITTEN APPROVAL MUST BE RECEIVED FROM CITY REPRESENTATIVE BEFORE CHANGE MAY COMMENCE (See "Request to Change Facilities or Transporters" Form). Submitted by: Title: Signature: Date:

- Construction & Demolition Debris Management Plan (CDDMP)* (Include estimates from all Subcontractors) Estimated Start Date: Estimated End Date: *Attach a brief description of how this jobsite will be managed to ensure compliance with all aspects of the plan by all persons working on the project Summary of Diversion: Submitted with Progress Payment Application (Compile Diversion Data from all Subcontractors) Reporting Period (mm/yy): Progress Payment No.: Final Diversion Report (Compile Diversion Data for Entire Project) Date Project Completed:

City Representative Review & Approval

I declare under Penalty of Perjury under the Laws of the State of California that I have reviewed the information provided herein including supporting documentation to ensure that Contractor is in compliance with all Construction/Demolition debris diversion requirements. City Representative Signature: Name (print) Date

Instructions for Completing Section 2 on Page 2 - Debris Recovery Worksheet: (refer to Section 701 of Environment Code Chapter 7 for all definitions)

- Contractor is responsible for preparing and submitting all C&D management plans & reports. Contractor shall compile data from all subcontractors into one plan/report. Column (a): Enter the appropriate Diversion Activity Code associated with the kind of material being handled and how the material is being processed. Column (b): Enter Total Tons of material for each type of material being diverted. Column (c): Enter Tons Recycled for each type of material being diverted. Column (d): Enter Tons Reused for each type of material being diverted. Column (e): Enter name of facility where material will be taken. If project is located in San Francisco, Mixed Debris must be taken to a Registered Facility authorized to process the material. Column (f): Enter name of Transporter hauling the material. If project is located in San Francisco, only Registered Transporters are authorized to haul Mixed Debris. Line (g) below worksheet: Calculate Diversion Rate per formulas provided & instructions. Submit completed form to City Representative for review and approval.

Project/Job Number: _____

Reporting Period: _____

Progress Pmt. Number: _____

Section 2: Debris Recovery Worksheet

IMPORTANT: HAZARDOUS MATERIAL OR U-WASTE IS SUMMARIZED SEPARATELY FROM THIS REPORT. ATTACH A SEPARATE LIST OF THESE MATERIALS, DISPOSAL PLANS & PROFESSIONAL WASTE DETERMINATION. DO NOT INCLUDE ANY HAZARDOUS MATERIALS AND UNIVERSAL WASTE ON THIS WORKSHEET,

Diversion Activity Codes:

- | | |
|---|--|
| 1 - Recycling source-separated materials at a recycling facility. | 4 - Reuse of salvageable items. |
| 2 - On-site concrete or asphalt crushing for use on site. | 5 - Reuse of soil or dirt on site. |
| 3 - Recycling of mixed C&D debris. | 6 - Reuse of dirt or mixed inerts for landfill construction. |
| | 7 - Other diversion - please describe: |

WORKSHEET

| Type of Material | Diversion Activity Code | Total Tons | Tons Recycled | Tons Reused | Facility Used* | Transporter* | Balance from Original Plan |
|--------------------------------------|-------------------------|------------|---------------|-------------|----------------|--------------|----------------------------|
| | (a) | (b) | (c) | (d) | (e) | (f) | |
| MIXED C&D DEBRIS* | 3 | (A) | | | | | |
| SOURCE SEPARATED MATERIALS | | | | | | | |
| Asphalt | | | | | | | |
| Acoustical Ceiling Tiles | | | | | | | |
| Bricks, Granite, Finished Stone | | | | | | | |
| Carpet & Padding | | | | | | | |
| Concrete | | | | | | | |
| Corrugated Cardboard | | | | | | | |
| Dimensional Lumber & Beams | | | | | | | |
| Fixtures, Hardware, Doors, Windows | | | | | | | |
| Metal | | | | | | | |
| Mixed Inerts | | | | | | | |
| Rigid Plastic | | | | | | | |
| Soil/dirt/rock | | | | | | | |
| Trees, Landscape Debris, Wood Scraps | | | | | | | |
| Wallboard, Gypsum Sheet | | | | | | | |
| Rock | | | | | | | |
| Other: | | | | | | | |
| Sub-Totals (source separated) | | (B) | (C) | (D) | | | |
| Total (E = A + B) | | (E) | | | | | |

*** Diversion Rate Calculation Formulas:**

Projects in SF: $[C+D+(A \times 0.65^*)] \div E \times 100$

Outside SF: $[C+D+(A \times _____^*)] \div E \times 100$

(g)
$$\left[\frac{(C) + (D) + ((A) \times (Rate)^*)}{(E)} \right] \times 100 = \text{DIVERSION RATE } \boxed{\quad\quad\quad} \%$$

* For projects located in San Francisco: Mixed C&D Debris must be taken to a Registered Facility authorized to process the material, and it must be hauled by a Registered Transporter (lists available at sfenvironment.org/c&d); **diversion rate for Registered Facilities is 65%**. For projects outside SF: the diversion rate for Mixed C&D Debris is 65% if taken to one of our Registered Facilities; if taken to a non-registered facility check with local jurisdiction for that facility's recycling rate. ATTACH OFFICIAL DOCUMENTATION FROM LOCAL JURISDICTION. If a facility does not have a local approved recycling rate, the diversion rate is calculated as zero.



FORM D
REQUEST TO CHANGE
FACILITIES OR TRANSPORTERS
APPROVED ON CONSTRUCTION & DEMOLITION DEBRIS MANAGEMENT PLAN

City and County of San Francisco
Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

If an unforeseen circumstance requires a change to the Facilities or Transporters named and approved on the original Construction & Demolition Debris Management Plan (CDDMP), the Contractor may use this form to submit a written request to the City Representative for approval prior to the change being made.

Section 1: Project Information
City Department
1. Project Name: 2. Project/Job Number: 3. Reporting Period:
4. Project Street Address: 5. City & County (if not in SF):
6. Contractor's Company Name:
7. Contractor's Address: 8. City, State, Zip Code:
9. Contractor's Contact: 10. Contact's Title:
11. Office Phone: 12. Cell Phone: 13. e-mail:

Section 2: FACILITY CHANGE REQUEST
From original, approved plan:
Name of facility Type of material Approximate tons
New Facility Requested:
Name of facility Location Approximate tons
Please explain why this change may be necessary. Use an additional sheet if necessary. If material has been determined to be hazardous, please attach written determination or other verification from an independent professional.

Section 3: TRANSPORTER CHANGE REQUEST
From original, approved plan:
Name of Transporter Material hauled Approximate tons
New Transporter Requested:
Name of Company Material hauled Approximate tons
Please explain why this change may be necessary. Use an additional sheet if necessary.

(PLEASE COMPLETE THE BACK PAGE OF THIS REQUEST)

I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING AND INFORMATION IN ALL ATTACHMENTS ARE TRUE AND CORRECT. IF THIS REQUEST IS APPROVED I AGREE TO USE THE NEW FACILITIES AND/OR TRANSPORTERS NAMED.

Submitted by: _____ Title: _____

Signature: _____ Date: _____

Submittal Instructions:

Submit to the City Representative for review and approval. A copy should be sent to the Department of Environment at 1455 Market Street, Suite 1200, San Francisco, CA 94103, or email to mary.williams@sfgov.org.

For questions regarding completion of this request, please call the Department of the Environment at (415) 355-3700.

FOR OFFICIAL CITY USE ONLY

DATE REQUEST RECEIVED _____

APPROVED _____ NOT APPROVED _____ DATE _____

COMMENTS _____

NAME _____ SIGNATURE _____ TITLE _____



FORM E CONSTRUCTION & DEMOLITION DEBRIS MATERIAL CONVERSION RATES (CUBIC YARDS TO TONS)

City and County of San Francisco

Environment Code 7; Ordinance No. 204-11 ; SFE Regulation No. SFE13-03-GB

IMPORTANT: The weights shown are in POUNDS, and they need to be converted to TONS for use on the waste management report. **2000 pounds = 1 ton**

| <u>Material</u> | <u>Size/Amount</u> | <u>Weight/POUNDS</u> |
|---|--------------------|----------------------|
| Asphalt/paving, crushed | 1 cubic yard | 1,380 |
| Brick | 1 cubic yard | 3,024 |
| Concrete | 1 cubic yard | 1,855 |
| Dirt | 1 cubic yard | 2,052 |
| Gravel | 1 cubic yard | 2,565 |
| Greenwaste - large limbs, stumps | 1 cubic yard | 1,080 |
| Greenwaste - prunings | 1 cubic yard | 46.69 |
| Metal, aluminum scrap | 1 cubic yard | 175 |
| Metal, brass | 1 cubic yard | 906.43 |
| Metal, copper | 1 cubic yard | 1,093.52 |
| Metal, ferrous, scrap | 1 cubic yard | 906 |
| Metal, steel | 1 cubic yard | 1,620 |
| Mixed C&D Debris | 1 cubic yard | 400 |
| Mixed inerts | 1 cubic yard | 2,000 |
| OCC (Cardboard), flattened, uncompacted | 1 cubic yard | 100 |
| Pallets | 1 each 48"x48" | 40 |
| Rock | 1 cubic yard | 2,570 |
| Sand | 1 cubic yard | 2,441 |
| Wallboard -sheetrock scrap | 1 cubic yard | 393.5 |
| Wood, scrap | 1 cubic yard | 329.5 |

For additional information, visit <http://www.calrecycle.ca.gov/LGCentral/Library/DSG/AppendixI.htm> & CLICK ON CONVERSION FACTOR TABLES AT BOTTOM OF PAGE.

SECTION 01 77 00
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes procedures and requirements for Contract Closeout.
- B. Related Sections:
 - 1. Section 00 73 02 – Contract Time and Liquidated Damages
 - 2. Section 01 45 00 – Quality Control
 - 3. Section 01 50 00 – Temporary Facilities and Controls
 - 4. Section 01 78 23 – Operation and Maintenance Data
 - 5. Section 01 78 36 – Warranties
 - 6. Section 01 78 39 – Project Record Documents

1.2 PROCEDURES

- A. Close-out Meeting:
 - 1. The Contractor shall submit all outstanding change orders, claims, and time extension requests by the final date as required by the City Representative before the Work is 95% complete.
 - 2. Prior to Substantial Completion, the City Representative will schedule a closeout meeting with the Contractor, Architects or City Representatives and consultants to determine the status of completion.
 - 3. The Contractor shall attend the Close-out meeting scheduled by the City Representative to discuss the close-out procedure and responsibilities of the Contractor and the City.
 - 4. The City Representative will prepare a list of actions which are still open or pending that need to be resolved during the close-out period. Such actions may include, but are not necessarily limited to, equipment testing, operator training, record documents, final inspection, administrative activities, and documentation of final quantities and force account work.

1.3 SUBSTANTIAL COMPLETION

- A. Prerequisites to Substantial Completion:
 - 1. Submit to the City Representative with the application for payment just before Substantial Completion, a statement of all Change Orders, Modifications, claims, and time extension requests.
 - 2. Verify that the following administrative closeout submittals have been received by the City, if applicable:
 - a. Project Record Documents and approved shop drawings, product data, and samples as specified in Section 01 78 39.
 - b. Warranties as specified in Section 01 78 36.
 - c. Keys and keying schedule.
 - d. Spare parts and materials extra stock.
 - e. Certificates of Final Inspection and Occupancy as evidence of compliance with the requirements of governmental agencies having jurisdiction.
 - f. Comply with requirements listed in Section 00 73 00, amendments to definitions of Substantial Completion and/or Final Completion, as applicable.

3. Advise the City Representative of pending insurance change-over requirements.
 4. Submit to the City Representative written certification that the Contract Documents have been reviewed, Work has been inspected, the Work is complete, including start-up, testing, adjusting, and balancing of equipment and systems, and conforms to the requirements of the Contract Documents.
 5. At no additional cost to the City, restore and replace, as specified and as determined by the City, material and finishes damaged due to the performance of the Work.
 6. Restoration or replacement shall be equal quality and match the appearance of the existing Work.
- B. Substantial Completion Inspection:
1. Notify the City Representative in writing that the Work is substantially complete and ready for inspection.
 2. Upon receipt of Contractor's written notice, the City Representative will make an inspection to determine the status of completion.
 3. Should the City Representative determine that the Work is not substantially complete; the City Representative will so notify Contractor with a deficiency list of all items that shall be completed before the City considers the Work substantially complete.
 - a. Remedy all deficiencies as identified and notify the City Representative, in writing, when the Work is ready for re-inspection.
 - b. Failure to complete this requirement within the time allowed for substantial completion will result in liquidated damages being assessed.
 4. The Contractor shall verify that the Work is complete, including but not necessarily limited to, the items required for Substantial Completion.
 5. If the City Representative concurs that the Work is substantially complete, the City Representative will prepare a Notice of Substantial Completion, and arrange for a punch list inspection by the City's design and maintenance staff, and/or consultants.
 - a. If the Work is not substantially complete, the City Representative will follow the same procedure as for the first inspection, and Contractor shall reimburse the City for all additional re-inspection costs, including but not limited to costs incurred by City staff or for additional consultant visits.
- C. Partial Use or Occupancy of Work: When partial utilization of the Work is required and substantial completion is a condition of such partial utilization, the applicable requirements specified in this Section shall apply to the part of Work to be utilized.

1.4 FINAL ACCEPTANCE

- A. Prerequisites for Final Acceptance:
1. At no additional cost to the City, perform all remedial work noted on the punch list before requesting a final inspection and acceptance.
 2. Coordinate the performance of remedial work with the City Representative to cause minimal inconvenience and interruption of the City's operations.
 3. Perform final cleaning as specified in this Section. Remove protective coverings and similar items.
 4. Remove all temporary controls, utilities, facilities, signage, field offices and sheds.
 5. Submit consent of surety to final payment.
 6. Submit a certified copy of the City Representative's punch list of remedial items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance by the City.
 7. Failure to complete all remedial work and prerequisites for final inspection within the time allowed after the date of Final Completion as specified in the Supplementary Conditions will result in liquidated damages being assessed.

- B. Final Inspection:
1. Notify the City in writing that all punch list items of remedial work have been completed and the Work is ready for final inspection.
 2. The City Representative will make an inspection to verify the status of completion.
 3. Should the City Representative determine that the Work is not complete or is defective, the City Representative will so notify Contractor, in writing, listing remaining incomplete or defective work.
 - a. Promptly complete the remaining deficiencies and notify the City Representative, in writing, when ready for re-inspection.
 - b. If the City Representative finds the Work is still not complete, Contractor shall be responsible for all subsequent re-inspection and meeting costs incurred by the City to resolve the remaining issues. Such costs will be deducted from progress payments owed to Contractor.
 4. When the City Representative determines that the Work is acceptable under the Contract Documents and Contractor has made all required closeout submittals, the City Representative will initiate the final payment recommendation and prepare the Certificate of Completion.
- C. Prior to the final acceptance, the City Representative shall be furnished with the following administrative close-out submittals:
1. Project Record Documents as specified in Section 01 78 39;
 2. Warranties as specified in Section 01 78 36;
 3. Keys and keying schedule;
 4. Spare parts and materials extra stock;
 5. Operations and Maintenance Manuals;
 6. Relevant Test Reports;
 7. Sewer video records;
 8. Notice to Utilities for completed paving;
 9. Third Party Final Inspection and Sign-Offs (if applicable);
 10. Certificates of Final Inspection and Occupancy as evidence of compliance with the requirements of governmental agencies having jurisdiction;
 11. C&D Management Report as specified in Section 01 74 50;
 12. Evidence of Payment and Release of Liens; and
 13. Comply with all mobilization requirements as specified in Section 01 21 50.
- D. Submittals for final adjustment of accounts shall include, but not necessarily be limited to:
1. Request for Final Payment; and
 2. Final statement of accounting, payroll records, and final change orders showing adjustments to the Contract Price for all force account work and extra payments.
- E. All prior estimates and payments shall be subject to correction in the final estimate and payment.
- 1.5 FINAL CLEANING
- A. Final acceptance of the by the City will be withheld until the Contractor has satisfactorily complied with the requirements herein for final cleanup of the project site.
- B. Should the City elect to partially occupy or use portions of the Work prior to Completion, perform final cleaning for those portions of the Work prior to their being so occupied or used.
- C. Comply with applicable regulatory requirements during cleaning and disposal operations. Use cleaning materials which will not create hazards to health or property or cause damage to products or Work.

- D. Use only cleaning materials and methods which are compatible with the surface being cleaned, as recommended by the manufacturer of the products to be cleaned.
- E. Completely clean the work site including the adjacent sidewalks and street from property line to property line.
- F. Schedule final cleaning operations to prevent resulting dust and other contaminants from adhering to wet or newly finished surfaces and to enable the City Representative to accept a completely clean work.
- G. See additional cleaning requirements specified in Section 01 50 00 - Temporary Facilities and Controls.

1.6 PROJECT RECORD DOCUMENTS

- A. Submit the final approved Project Record Drawings to the City Representative prior to final acceptance. Refer to Section 01 78 39 - Project Record Documents.

1.7 OPERATOR INSTRUCTION

- A. Refer to individual Specification Sections for specific requirements for equipment and systems demonstration and safety, operations, and maintenance training.
- B. Where specified in the individual Specification Sections, furnish qualified personnel and coordinate scheduling for on-site instruction of the City's operating and maintenance personnel.

1.8 FINAL PAYMENT

- A. Prior to the final payment, the Contractor shall:
 - 1. Submit CMD Forms 7, 8, and 9
 - 2. Reconcile any outstanding payroll issues with the Office of Labor Standards Enforcement (OLSE).
 - 3. Reconcile any outstanding local hire issues with Office of Economic and Workforce Development (OEWD).

1.9 RELEASE OF LIENS OR CLAIMS

- A. Before the City issues final payment to Contractor, Contractor shall sign and deliver to the City a release of liens or claims sworn to under oath and duly notarized. The release shall state that Contractor has satisfied all claims and indebtedness of every nature in any way connected with the Work, including, but not limited to, the foregoing, all payrolls, amounts due to the subcontractors, accounts for labor performed and materials furnished, incidental services, liens, and judgments.
- B. If any liens or claims remain unsatisfied after all payments to Contractor have been made, Contractor shall refund to the City all moneys that the latter may be compelled to pay in discharging such a lien or claim, including all costs and a reasonable attorney's fee.
- C. Refer to Section 01 77 13 - Appendix A: Waiver and Release of Claims on Final Payment form.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

WAIVER AND RELEASE OF CLAIMS ON FINAL PAYMENT FORM

Date: _____

Re: Contract No.: _____

Project Title: _____

Waiver and Release of Claims

Consistent with California Public Contract Code Section 7100, the undersigned Contractor,

(CONTRACTOR NAME)

of _____,
(CONTRACTOR ADDRESS)

having completed work on the subject Contract and Project Title, hereby releases and forever discharges the City and County of San Francisco, its officers, agents, employees, authorized representatives, assignees, and transferees from any and all liabilities, claims, obligations, demands, actions or causes of action, and claims arising under this contract of whatever kind or nature, known or unknown, which have arisen or are in any way concerned with the work under the Contract and Project Title, about which the Contractor knows or should have known except for the Disputed Claims as listed below.

The following claims are disputed (the "Disputed Claims") and are specifically excluded from the operation of this Waiver and Release:

| Contract Claim No. | Date Submitted | Description of Claim | Amount of Claim |
|--------------------|----------------|----------------------|-----------------|
| | | | |
| | | | |

Guarantees and warranties for Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.

Signature of Authorized Representative

Print Name of Authorized Representative

Position

Date

SECTION 01 78 23

OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Requirements and formats for Operation and Maintenance Data Manual (O&M).

1.2 RELATED SECTIONS

- A. Section 01 33 00 – Submittal Procedures
- B. Section 01 77 00 – Closeout Procedures
- C. Section 01 78 36 – Warranties

1.3 OPERATION AND MAINTENANCE DATA REQUIREMENTS

- A. The Contractor shall submit in the format specified herein, a complete package for Operation and Maintenance Data (O&M Manual), to include instruction manuals for installation, operation, maintenance, and lubrication requirements for each component of mechanical, electrical, irrigation equipment, or other equipment and systems.
- B. The Contractor shall inform all equipment manufacturers and subcontractors of these requirements and ensure that all associated costs are included in the costs for furnishing the equipment or system.
- C. The Contractor shall submit plan view drawings to scale to show the as-built layout of work for irrigation work, mechanical, work, electrical work and/or as required by specifications.

1.4 SUBMITTAL AND SCHEDULING REQUIREMENTS

- A. Schedule Requirements: The Contractor shall include in the submittal schedule each submittal listed herein in accordance with Section 01 33 00, paragraph 1.4.
- B. Preliminary Submittal: The Contractor shall submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. City Representative will review draft and return one copy with comments, in accordance with Section 01 33 00.
- C. Substantial Completion Submittal: The Contractor shall submit two copies of final O&M manual of the hard copy and the electronic copy as described herein. City Representative will review draft and return one copy with comments, in accordance with Section 01 33 00.
- D. Final Completion Submittal: As a requirement of the project closeout and prior to request for final payment, the Contractor shall submit approved 6 copies of the O & M manual 15 days prior to Final Completion, as described herein.

1.5 ELECTRONIC FORMAT

- A. O & M Manual Text and Manufacturers Data
 - 1. Prepare data in the form of an instructional manual.
 - 2. Scan material as required into a PDF file format, to a minimum of 400 DPI and save to CD or DVD.
 - 3. Organize data on a disk, in a manner similar to the hard copy of a binder, using a table of contents and folders for each component of mechanical, electrical, irrigation equipment, or other equipment and systems. Organize information related to each component within that folder.
 - 4. The CD shall be placed in a jewel case with a label indicating Project Name, Contract Number, "Operations and Data Manual 1 OF X", and Date.
 - 5. The Contractor shall submit (6) copies of the CD/DVD and originals as part of Closeout procedures as specified in Section 01 77 00.
- B. O & M Manual drawings and/or diagrams
 - 1. Each drawing shall be color scanned, 400 DPI, and saved to a CD.
 - 2. Each pdf file shall be numbered with prefix "SHT-01-" followed by the drawing number.
 - 3. The CD shall be placed in a jewel case with a label indicating Project Name, Contract Number, "Operations and Data Manual 2 OF X", and Date.
 - 4. The Contractor shall submit (6) copies of the CD and original drawings as part of Closeout procedures as specified in Section 01 77 00.

1.6 HARD COPY FORMAT

- A. O & M Manual Text and Manufacturers Data
 - 1. Prepare data in the form of an instructional manual.
 - 2. Binders: Commercial quality, 8-1/2 x 11 inch three-ring binders with hardback, cleanable, plastic covers; one-inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
 - 3. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; list title of Project; identify subject matter of contents.
 - 4. Arrange content by systems under section numbers and sequence of Table of Contents of this Project Manual.
 - 5. Provide tabbed fly leaf for each separate product and system, with typed description of product and major component parts of equipment.
 - 6. Text: Manufacturer's printed data, or typewritten data on white bond paper.
 - 7. The Contractor shall submit (6) copies of the binders and originals as part of Closeout procedures as specified in Section 01 77 00.
- B. O & M Manual Text As built drawings and/or diagrams
 - 1. Submit copies of each drawing.
 - 2. Drawings shall be printed on bond paper, in full color to scale and shall be folded and included with sleeved folder in binder.
 - 3. The Contractor shall submit (6) copies of the binders and originals as part of Closeout procedures as specified in Section 01 77 00.

1.7 CONTENTS, EACH VOLUME

- A. Table of Contents: Provide title of Project; names, addresses, and telephone numbers of Engineer, sub consultants, and Contractor with name of responsible parties; schedule of products and systems, indexed to content of the volume.
- B. For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- C. Product Data: Mark each sheet clearly to identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- D. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
- E. Type Text: As required to supplement product data.
- F. Warranties: Bind in a hard copy of each and scan a pdf for the electronic format, refer to Section 01 78 36.
- G. Each instruction manual shall include, but not be limited to, the following:
 - 1. Detailed description of the function of each principal component of the system
 - 2. Performance and nameplate data
 - 3. Installation instructions
 - 4. Procedure for start-up and break-in
 - 5. Proper adjustment
 - 6. Test procedures
 - 7. Procedure for operating
 - 8. Shutdown instructions
 - 9. Emergency operating instructions and troubleshooting guide
 - 10. Safety precautions
 - 11. Complete nomenclature and commercial number of replaceable parts.
 - 12. Panel board Circuit Directories: Provide electrical service characteristics, controls, and communications.
 - 13. Include color coded wiring diagrams as installed.
 - 14. Maintenance Requirements: Include routine procedures and guide for disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
 - 15. Provide servicing and lubrication schedule, and list of lubricants required.
 - 16. Include written sequence of operation by controls manufacturer.
 - 17. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
 - 18. Provide control diagrams by controls manufacturer as installed.
 - 19. Provide Contractor's coordination drawings, with color coded piping diagrams as installed.
 - 20. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
 - 21. Include test and balancing reports as specified in Technical Sections.
 - 22. Additional Requirements: As specified in individual product specification Sections.
 - 23. Provide a listing in Table of Contents for design data, with tabbed fly sheet and

space for insertion of data.

1.8 INSTRUCTION OF CITY PERSONNEL

- A. Before final inspection, provide detailed instructions to the City's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems, at agreed upon times.
- B. Sales representatives shall not conduct the training sessions. Submit a brief description of the qualifications of the manufacturer's representative designated to conduct this training. The manufacturer's representative shall be a factory trained or manufacturer's certified individual with substantial experience in the repair and servicing of the equipment to be covered during the training session.
- C. The City shall receive a six hundred (\$600.00) dollar per day credit from the Contractor for any training that is not conducted in accordance with the requirements of Paragraph A above or as required in the individual technical specification sections. The Contractor and the City Representative will jointly verify that the required training is conducted.
- D. For equipment requiring seasonal operation, perform instructions for other seasons within six months.
- E. Use operation and maintenance manuals as basis for instruction. Review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- F. The training shall cover a thorough discussion of the O&M manual. The training shall include but not be limited to, operation and maintenance of the specific equipment and systems installed, telltale signs of equipment malfunctioning and their solutions, other pertinent topics that relate to optimum system operation and energy conservation.
- G. Prepare and insert additional data in Operation and Maintenance manual when need for such data becomes apparent during instruction.
- H. System Familiarization Training shall follow the outline below:
 - 1. Show location of catalogs, parts lists, drawings and other pertinent material in the part files and O&M manuals.
 - 2. Check out the installation of the specific equipment items.
 - 3. Demonstrate the unit and show that all parts of the Specifications are met.
 - 4. Answer questions.
- I. Safety Training shall cover the following:
 - 1. Point out safety references.
 - 2. Discuss proper precautions around equipment.
- J. Operational Training shall cover the following:
 - 1. Point out reference literature.
 - 2. Explain all modes of operation, including emergency.
 - 3. Check out operators in proper use of the equipment.
- K. Preventive Maintenance (PM) Training shall cover the following items:
 - 1. Pass out PM list including:
 - a. Reference material.
 - b. Daily, weekly, monthly, quarterly, semi-annual, and annual maintenance and inspection procedures.
 - 2. Show how to perform PM jobs.

3. Show operators what to look for as indicators of equipment problems.
- L. Corrective Maintenance Training shall cover the following items:
1. List possible problems.
 2. Discuss repairs--point out special problems.
 3. Open up equipment and demonstrate procedures, where practical.
- M. Availability of Parts, Outside Service and Manufacturer's Representative
1. Show how to use parts list and order parts.
 2. Where to order parts: Name, address, telephone.
 3. Check over spare parts on hand. Make recommendations for additional spare parts needed. Sign off their acceptance of the spare parts in the presence of the City's representative.
 4. How to get emergency service help.

1.9 TRAINING SCHEDULES AND PROCEDURE

- A. The Contractor shall designate and provide one or more persons to be responsible for coordinating and expediting Contractor's training duties. The person or persons shall be present at all training coordination meetings with the City.
- B. The Contractor shall submit to the City a Training Schedule, to be used by the City for scheduling the training of City operating personnel by equipment manufacturers. This schedule shall list the estimated completion dates for the installation of all equipment and systems requiring the services of manufacturers' representatives, as stated in the Technical Specifications.
- C. The Contractor shall coordinate the pre-startup training periods with City operating personnel and manufacturers' representatives. All pre-startup training shall be completed 14 days prior to actual Startup. Training services shall be at such times as requested by the City.
- D. The City reserves the right to make video recordings of any of the manufacturer's training sessions for use in ongoing training programs.
- E. Where post-startup training is called for in the Technical Specifications, the Contractor shall supply and coordinate the specified manufacturers' services and Contractor personnel for post-startup training of the City's operating personnel.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 78 36

WARRANTIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Requirements.
 - 2. Submittal Requirements.
 - 3. Quality Assurance.
 - 4. Warranty conditions.
 - 5. Form of Guarantee/Warranty.
- B. Related Sections:
 - 1. Section 00 72 00 – General Conditions:
 - (a) Paragraph 8.03, Correction of Non-Conforming Work;
 - (b) Paragraph 8.04, Correction Period;
 - (c) Paragraph 8.05, Acceptance of Non-Conforming Work;
 - (d) Paragraph 9.07, Partial Utilization.
 - 2. Section 01 77 00 – Contract Closeout.
 - 3. Individual Specifications Sections: Warranties required for specific products or Work.

1.2 REQUIREMENTS

- A. Except as otherwise specified in the individual Specification sections, guarantee/warranty the Work against defects in materials and workmanship for 24 months from the date of the Substantial Completion Certificate issued by the City.
 - 1. Upon receipt of written notification by the City Representative, guarantee/warranty the Work, or portions thereof, which are used or occupied by the City before final acceptance from the date of beneficial use or occupancy.
- B. Comply with the guarantee/warranty requirements as specified in the individual Specification sections.
- C. Submit executed guarantees/warranties to the City for review. Deliver them to the City upon Substantial Completion.
- D. These warranties shall be in addition to and not a limitation of other rights the City may have under the Contract and which may be prescribed by law, regardless of the wording of manufacturer's standard warranty.

1.3 SUBMITTAL REQUIREMENTS

- A. Refer to Section 01 78 23 for submittal requirements regarding quantity and format.
- B. Warranties will be included with Operations and Maintenance manuals, in the hard copy and electronic copy.

1.4 QUALITY ASSURANCE

- A. Obtain guarantees/warranties, in duplicate, executed by Contractor and subcontractor or installer responsible for that portion of the Work and countersigned by the manufacturer.

- B. Verify that documents are in proper form, contain complete information, and are notarized if warranties are extended beyond the Manufacturers normal warranty period of TWO years.
- C. Co-execute submittals when required. Acceptance of manufacturer's guarantees/warranties by the City shall not be construed to limit the City's recourse to Contractor for correction of defects under the law and in accordance with the General Conditions.

1.5 WARRANTY CONDITIONS

- A. Contractor shall warrant that work performed under this Contract conforms to the Contract Documents and is free of any defect of equipment, material, installation, design furnished, or workmanship furnished by Contractor, or any of its subcontractors or suppliers. **SUCH WARRANTY SHALL CONTINUE IN EFFECT FOR 24 MONTHS FROM THE DATE OF APPROVAL OF THE CONTRACTOR'S APPLICATION FOR SUBSTANTIAL COMPLETION BY THE CITY except where detailed specifications for certain materials, equipment or systems require longer warranty periods.**
- B. Warranties are not intended to cover failures which result from the following:
 - 1. Unusual or abnormal phenomena of the elements.
 - 2. The City's misuse, maltreatment, or improper maintenance of the Work.
 - 3. Insurrection or acts of aggression including war.
- C. Promptly after receipt of written notice from the City, remove, replace, or correct Work, or portion thereof, which is damaged or found to be defective and not in accordance with the Contract.
 - 1. The City may proceed with the correction work at Contractor's expense if Contractor does not proceed with the corrective work within a reasonable time fixed by written notice from the City, the City may proceed with the work at the expense of the Contractor.
 - 2. The City reserves the right to remove and store or dispose of defective equipment or material at Contractor's expense.
 - 3. If Contractor does not pay the costs of such removal and storage within ten days thereafter, the City may, upon ten additional days written notice, sell such defective items and shall account for the net proceeds after deducting all the costs that should have been borne by the City, including compensation for City Representative's additional services.

If the proceeds from the sale are insufficient to cover all amounts chargeable to Contractor, Contractor shall pay the difference to the City.

1.6 FORM OF GUARANTEE/WARRANTY

- A. For equipment or components of equipment put into service for the City's benefit during the progress of the Work:

| |
|---|
| <p>(Letterhead of Company)</p> <p>We <u>(name of Contractor)</u>, agree to maintain and repair as recommended by equipment and system manufacturers, any such equipment and systems which have been beneficially used by San Francisco City personnel prior to the approval of Contractor's Application For Substantial Completion.</p> <p>Owner: <Department>, City and County of San Francisco.</p> <p>Location of Equipment: <Address>, San Francisco, California.</p> <p>This guarantee is effective this _____ day of _____, 20____ until the date of City Approval of Contractor's Application for Final Payment.</p> <p>Signed: _____(Name of Contractor)</p> <p>By: _____</p> <p>Contractor's Telephone No. _____</p> |
|---|

- B. For guarantee/warranty of the entire Work against defects in materials and workmanship for the period of warranty after the Notice of Substantial Completion:

GUARANTEE/WARRANTY FORM
for
<PROJECT NAME>
<CONTRACT NO.>

GUARANTEE/WARRANTY for _____
We hereby guarantee/warrant that the _____
which we have provided in the _____
has been completed in accordance with the requirements of Specification Section _____ and
the other Contract Documents.

We agree to repair or replace any or all of our Work, together with any other adjacent Work
which may be displaced by so doing, that may prove to be defective in its workmanship or
material within a period of 24 months from the date of Substantial Completion of the above
named Project; and we also agree to repair any and all damages resulting from such defects,
all without any expense to the City, ordinary wear and tear and unusual abuse or neglect
excepted.

In the event of our failure to comply with the above mentioned conditions within ten (10) days
after being notified in writing by the City, we collectively or separately do hereby authorize the
City to proceed to have such defective Work repaired or replaced and made good at our
expense, and we will honor and pay the costs and charges therefor upon demand.

Signed _____ Date _____
(Include Contractor's name, address, and license number)

Countersigned _____ Date _____
(City Representative)

Substantial Completion was granted by the City on _____.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 78 39

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for maintenance and submittal of Project Record Drawings and As-Builts.
- B. Related Sections:
 - 1. Section 01 20 00 – Price and Payment Procedures
 - 2. Section 01 33 00 – Submittal Procedures
 - 3. Section 01 77 00 – Closeout Procedures

1.2 REQUIREMENTS

- A. Keep an accurately marked, up-to-date set Record Drawings for the work actually installed. Accurately indicate on Record Drawings all site conditions, locations of utilities, work scope changes, changes in dimensions, locations, and elevations of the work, and changes in details as specified herein and as approved by the City Representative. Contractor shall keep the Record Drawings current as the work is performed.
 - 1. Record Drawings shall be subject to inspection and approval by the City Representative at any time within the duration of the Contract.
 - 2. Such review by the City Representative shall not relieve Contractor of its responsibility for keeping the Record Drawings current and complete.
- B. If the Record Drawings are not kept current, or are not furnished as specified in Price and Payment Procedures Section, then progress payments, and if necessary, final payment will be withheld. Furnishing of Record Drawings shall be done as incidental work.
- C. Prior to acceptance of the work, furnish to the City Representative the Final Record Drawings, or As-Builts, showing all changes in the Contract Drawings neatly in red ink and certified by the City Representative.

1.3 QUALITY ASSURANCE

- A. The City Representative will provide Contractor with a set of base drawings, or conformed prints, if any, with "Record Drawings" stamp for the City inspector's certification of corrections.
- B. Delegate responsibility for maintenance, coordination, and accuracy of the Record Drawings to one person on Contractor's staff.
- C. Record all changes and work progress on the stamped Record Drawings which will be inspected monthly by the City Representative.
- D. Accuracy of Record Drawings shall be such that future searches for items shown on the Contract Documents may rely on information obtained from the approved Record Drawings.
- E. The City Representative will check, initial, and date the Record Drawings upon submittal with Progress Payments to verify the accuracy and completeness of the recorded changes.

- F. The City Representative will sign the corrected Record Drawings to indicate that he or she has reviewed the corrections for completeness.

PART 2 - PRODUCTS

2.1 RECORD DOCUMENTS

- A. Promptly following receipt of the Notice to Proceed, secure from the City Representative the number of copies of Contract Documents as specified in Section 00 73 00, including a full-size set of the Base Contract Drawings to be used as Project Record Drawings or As-Built Drawings.

PART 3 - EXECUTION

3.1 MAINTENANCE OF RECORD DRAWINGS

- A. Store Record Drawings apart from documents used for performing the work; keep in a dry, legible condition, and in good order. Label each document "RECORD DRAWINGS - JOB SET" in large, neatly printed letters. Do not use Record Drawings for construction at the job site.
- B. Record neatly on the Record Drawings all changes made by clarifications, Change Orders, Requests for Information, and other Modifications to the Contract Documents; and changes to reflect the actual existing conditions and utility locations references to permanent accessible features of work
 1. Clearly describe changes on Record Drawings by note as required.
 2. Date all entries, calling attention to the entry by a "cloud" drawn around the area or areas affected.
 3. Record in each Specification Section the manufacturer, trade name, catalog number, and supplier of each product and equipment item incorporated into the Work.
- C. Furnish a copy of the final shop drawings which have been updated to show actual conditions. Furnish additional drawings as necessary to record deviations from the sizes, locations, and other features of the work and to locate piping, conduit, ductwork, and similar elements of utility installations by dimensions referenced to permanent accessible features of the work.
- D. Show on the job set of Record Drawings, by dimension accurate to within one inch, the centerline of each run of conduits, circuits, piping, ducts, and similar items which are shown schematically on the Contract Drawings but where the final physical arrangement is determined by Contractor, subject to the City Representative's approval.
 1. The City Representative will issue a written waiver of the requirements for conversion of schematic layouts where, in the City Representative's judgment, such conversion serves no useful purpose.
- E. Keep Record Drawings up to date during the entire progress of the work, and submit to the City with Progress Payments as specified in Application for Payments Section. Updates shall be accurate and current and be done at the time work is performed.

3.2 CHANGE ORDER DRAWINGS

- A. The City will issue to the Contractor one set of drawings, if any, associated with change orders issued. The Contractor shall be responsible for reproducing sufficient copies of the drawings for its subcontractors.
- B. The Contractor shall also update and include the revised or newly issued drawings as part of the Record Drawings. The work of reproducing and issuing change order drawings and updating of Record Drawings shall be done as incidental work.

3.3 AS-BUILT DRAWINGS

- A. Contractor shall prepare a separate set of As-Built drawings that will show the final completed work based on the Record Drawings. Prior to start of transfer of recorded data thereto, secure the City Representative's approval of the Record Drawings.
- B. Carefully transfer changed data shown on the job set of Record Drawings to the corresponding drawings, coordinating the changes as required.
- C. Make changes in red pencil neatly, legibly, correctly and consistently.
- D. Sign and date the completed As-Built Drawings and submit them to the City Representative for review prior to final payment as specified in Section 01 77 00 – Closeout Procedures.
- E. If the As-Built Drawings are not approved by the City Representative, Contractor shall make necessary revisions and submit a revised set of As-Built Drawings to the City Representative.
- F. Upon receiving approval of as-built drawings and prior to final payment, the Contractor shall have the final set scanned as follows:
 - 1. Each drawing shall be color scanned, 400 DPI, and saved to a CD;
 - 2. Each pdf file shall be numbered with prefix "SHT-01-" followed by the drawing number;
 - 3. The CD shall be placed in a jewel case with a label indicating project name, contract number, "As-Built Drawings", and date;
 - 4. The contractor shall submit (6) copies of the CD and originals as part of Closeout procedures as specified in Section 01 77 00.
- G. Furnishing of the final approved Project Record Drawings, including required revisions and resubmittal, shall be done as Incidental Work.
- H. If the As-Built Drawings are not furnished when specified, the final payment will be withheld.

END OF SECTION



Appendix A

Mark Farrell, Mayor
Mohammed Nuru, Director

Public Works Order No: 187147

CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS EMERGENCY DECLARED AND CONTRACT AWARDED

A significant number of persons are without the ability to obtain shelter resulting in a situation causing a threat to the health and safety of those persons. **Board Resolution NO. 444-17, File NO. 171256 approved 12/15/17** declares a homeless shelter emergency authorizing the Director of Public Works to construct, improve, or repair facilities pursuant to Administrative Code, Section 6.60(a).

Therefore, **an Emergency is declared to exist** under the provisions of Section 6.60 of the San Francisco Administrative Code, and

McGuire and Hester
2810 Harbor Bay Parkway
Alameda, CA 94502

is hereby awarded a contract with a not-to-exceed value of **\$1,700,000.00** to construct a Navigation Center at the site known as 5th and Bryant. The not-to-exceed scope of work is for a construction contract and will be assigned on a task order basis. Task Orders will be reviewed by San Francisco Public Works.

Contractor shall indemnify and hold harmless the City & County of San Francisco, its officers, agents and employees and furnish certificates of insurance protecting himself, any sub-contractors and the City & County of San Francisco and its officers, agents and employees against claims arising out of work performed pursuant to this order with the City & County of San Francisco, its officers, agents and employees named as additional insured.

Commercial General Liability Insurance with limits not less than \$1,000,000 each occurrence, and \$2,000,000 general aggregate, combined single limit for bodily injury and property damage.

Commercial Automobile Liability Insurance with limits not less than \$1,000,000 each occurrence combined single limit for bodily injury and property damage, including owned, hired or non-owned vehicles, as applicable.

Workers' Compensation, in statutory amount, including Employers' Liability coverage with limits not less than \$1,000,000 each accident, injury or illness. Contractor is notified that in the event that Contractor employs professional engineering services for performing engineering or preparing design calculations, plans and specifications, retained engineers to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors or omissions in connection with professional services to be provided under the subject Contract.



Professional Liability, Contractor is notified that in the event that employs professional engineering services for performing engineering or preparing design calculations, plans and specifications, retained engineers to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors or omissions in connection with professional services to be provided under the subject contract.

This Order serves as the Notice to Proceed.

DISTRIBUTION:

McGuire and Hester

BDC: Ronald.Alameida@sfdpw.org; Julia.laue@sfdpw.org; Andrew.Sohn@sfdpw.org; Jumoke.Akin-Talor@sfdpw.org; Nicolas.King@sfdpw.org;

Deputy Director: Edgar.Lopez@sfdpw.org

Public Affairs: Jennifer.Blot@sfdpw.org

K2Systems: K2Systems@sfdpw.org

Contract Admin: ContractAdmin.Staff@sfdpw.org;

2/9/2018

2/12/2018

X Edgar Lopez

Lopez, Edgar

Deputy Director and City Architect

Signed by: Lopez, Edgar

X Mohammed Nuru

Nuru, Mohammed

Director of Public Works

Signed by: Nuru, Mohammed



February 2, 2018

Sent Via Email - Julia.Laue@sfdpw.org

Attention: Julia Laue
30 Van Ness Avenue, #4100
San Francisco, CA 94102

Reference: 5th & Bryant Navigation Center

Subject: Budget Proposal – R1

McGuire and Hester (M&H) is pleased to provide the following budget proposal for the above referenced project. Budget is based on city supplied Site Information plan set dated 1/19/18. There is no soil or analytic documentation to date. The project plans are conceptual and will need to be developed for construction.

McGuire and Hester proposes to furnish and install the work outlined in the breakdown:

| Item | Description | Unit | Total |
|------|--------------------------------|------|---------------|
| 1 | Mobilize & Demobilize | LS | \$ 9,525.00 |
| 2 | Demolition & Site Strip | LS | \$ 27,700.00 |
| 3 | SWPPP & Site Temp Fence | LS | \$ 33,235.00 |
| 4 | Sanitary / Storm Drain System | LS | \$ 127,792.00 |
| 5 | Domestic Water System | LS | \$ 151,850.00 |
| 6 | Fire System | LS | \$ 219,195.00 |
| 7 | Grade Site | LS | \$ 32,735.00 |
| 8 | A/B Placement at Road | LS | \$ 11,455.00 |
| 9 | A/C Placement at Road | LS | \$ 19,030.00 |
| 10 | Deck System | LS | \$ 397,230.00 |
| 11 | Electrical System / Site Power | LS | \$ 295,800.00 |

Subtotal LS \$ 1,325,547.00

| | | |
|---|----|--------------|
| Alt - 2" Gravel Site | LS | \$ 24,100.00 |
| Alt - Engineering / Deck System | LS | \$ 7,800.00 |
| Allowance - Precon Coordination Services | LS | \$ 25,000.00 |
| Allowance - Analytic Soil Testing | LS | \$ 11,250.00 |
| Allowance - Fence System | LS | \$ 20,220.00 |
| Allowance - Lighting | LS | \$ 44,930.00 |
| Allowance - Health & Safety Site Assessment | LS | \$ 15,000.00 |

\$1,325,547.00
+\$148,300.00 (Allowances)
\$1,473,847.00
+10% Contingency (\$147,385)
\$1,621,232 (NTP @ \$1,700,000)

www.McGuireandHester.com

CORPORATE OFFICE 2810 HARBOR BAY PKWY ALAMEDA CA 94502 ● OAKLAND OFFICE 9009 RAILROAD AVE

SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PH

Contractors License Numbers: CA: 95879, AZ: 251428, NV: 72399, OR: 184930

DIR: 1000000033



Inclusions:

Demolition and Rough Grading:

1. Perform potholing to confirm location and depth of existing utilities shown on plans.
 - a. 6 – EA
2. Demolish existing above-grade improvements and structures as needed.
3. Demolish conflicting AC and PCC flatwork improvements as needed.
 - a. SS/ SD system sidewalk and street.
 - b. Dom water sidewalk and street.
 - c. Fire water sidewalk and street.
4. Strip site of vegetation and stockpile onsite for future use in landscape areas
 - a. 2" Strip as needed.
5. Excavate, fill and compact onsite soils
 - a. Re shape / rough grade site for positive drainage – 21,435 SF
 - b. All soil to remain onsite.
6. Establish SWPPP – 1 EA
 - a. File with State – 1 EA
7. Install initial erosion control measures.
 - a. Basic measures
 - b. CB protection – 4 EA.
 - c. Wattle placement – 650 LF
8. Temporary Fence – 625 LF
 - a. Rental period – 3 MO.

Finish Grade and Paving:

1. Finish subgrade to within +/- 0.10' vertical tolerance for:
 - a) Crushed Rock 2" section at site – 21,435 SF
 - b) ¾" CI II A/B recycle at roadway section – 2,066 SF
2. Furnish and install Class II aggregate base:
 - a. 6" at light vehicular pavement – 2,066 SF
3. Furnish and install asphalt concrete pavement:
 - a. 3" at light vehicular sections – 2,066 SF
4. Furnish and spread necessary prime coat and edge tacking
5. Furnish and install specified fog seal coat
6. Remove and replace existing sidewalk and curb and gutter for the installation of a new PCC driveway entrance at new service road.

Underground Utilities:

1. **Storm Drain / Sanitary Sewer:**
 - a. 352 lf of 4" - 8" CIP SD / SS
 - b. CO & Stubs – 13 EA
 - c. Connections to MOD buildings – 5 EA
 - d. Tie in at existing 21" VCP – 1 EA
 - e. Street restoration at trench line only – Included
 - f. Sidewalk restoration at trench line only – Included
 - g. Trench plate protection included.
 - h. Traffic control Included
2. **Fire Water Service:**

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CORPORATE OFFICE 2810 HARBOR BAY PKWY ALAMEDA CA 94502 ● OAKLAND OFFICE 9009 RAILROAD AVENUE OAKLAND CA 94603 ● PH 510 632 7676

SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PH 916 372 8910

Contractors License Numbers: CA: 95829, AZ: 251628, NV: 72399, OR: 184630

CIR: 100000033



- a. 40 LF of 6" C900 at Offsite to P/L.
- b. Traffic control included.
- c. 903 LF of onsite Fire System Piping / under deck system.
 - i. Sch 10 Roll Grooved.
- d. Electric fire pump Included.
- e. Connections to buildings – 5 EA.
- f. CAD drawings – included.
- g. Valves install – 1 EA.
- h. DCDA – 1 EA
- i. Tie in at existing 8" main by SFW
 - i. All support work by M&H
 - ii. Projected 1 day.
- j. Street restoration included.
- k. Sidewalk restoration included.
- l. Bacteria & pressure testing included.

3. Domestic Water Service:

- a. 40 LF of 3" C900 at offsite to P/L.
- b. Tie in at existing 8" main by SFW
 - i. All support work by M&H
 - ii. Projected 1 day.
- c. Onsite / above grade 1" – 3" Type L copper pipe system – 340 LF
 - i. Onsite system will be hung from deck.
- d. Connections to MOD buildings – 5 EA.
- e. Meter install support – 1 EA
 - i. Meter install by SFW
- f. BFP install – 1 EA
- g. Valves – 5 EA
- h. Water hammer arrestors – 5 EA
- i. Traffic control included.
- j. Test system included.
- k. Bacteria testing included

Deck System:

- 1. Bison support install included.
 - a. Based on 490 EA Vert Locations
- 2. Lateral bracing 2" x 4" – 31 EA
- 3. Structural posts 6" x 6" – 14 EA
- 4. Edge posts 4" x 4" – 75 EA
- 5. Sidewalls, (deck skirt section) and railing system – 1,557 SF
- 6. Stairs – 54 SF
- 7. Ramps – 2 EA
- 8. Girders, joists & perimeter – 4,532 LF
- 9. Deck 2"x4" PT – 6,995 SF
- 10. Trellis systems – 266 SF (Plan View)
- 11. AC unit protection systems – 495 SF
- 12. Seal wood material included
- 13. Hand rails at ramp - 120 LF
- 14. Engineering price included as an alternate

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SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PH 916 372 8910

Contractors License Numbers: CA:95829, AZ:251628, NV:72399, OR:184630 CIR:100000033



15. Fence system allowance based on 250 LF of 8' chain link fence with fabric.
16. Fence system allowance based on 4 EA. Sliding gates.

Electrical System:

1. Per Sht E3.0
2. F&I – precast transformer pad and bollards
3. F&I – main switchboard and pad
4. F&I – 1.5" GRSC conduit
5. F&I – 2.5" GRSC conduit
6. F&I – 6" PVC conduits
7. Trenching and excavation to PG&E power pole at sidewalk
8. Sidewalk restoration included – 250 SF.
9. Allowance Proposal is based on 4 EA light standards and associated conduits.

Exclusions:

1. Clearing, grubbing or removal of existing trees, shrubs, ground cover, sod, stumps, roots, etc.
2. Demolition of existing pavements, curbs, slabs, footings or structures not shown at improvements.
3. Disposal fees for asphalt concrete containing fabric or other materials unacceptable to recycle facilities.
4. Structural excavation or backfill.
5. Handling, removal or disposal of the spoils generated by others.
6. Pavement seals, striping, markings, markers, parking bumpers or signage.
7. Drain rock, sand or vapor mitigation measures.
8. Headers at asphalt pavement.
9. Soil sterilant.
10. Asphalt oil escalation. Current price of asphalt is \$450.00 per liquid ton.
11. Dewatering of subsurface ground water or control of rain / surface water.
12. Cathodic protection design and installation.
13. Water meters, bypass meters and associated fees.
14. Fire system calculations and drawings.
15. Backflow and check valve certification other than by the manufacturer.
16. Export of soils.
17. Coring or boring.
18. Relocation, protection and removal of existing utilities, sub-surface obstructions or debris. It is assumed that all proposed improvements are free of conflicts.
19. Handling, removal or disposal of hazardous or contaminated substances.
20. Subgrade or trench stabilization by means of ripping, sub-excavation, fabric, chemical treatment, etc.
21. Dust control when our forces are not actively working on site.
22. Haul road and/or lay-down area installation, maintenance, repair or removal.
23. Air, settlement, vibration, sound, or other monitoring and mitigation.
24. Pre or post construction surveys (e.g. GPS, video, photographic, consultant, etc.).
25. Biologist services, wildlife surveys, demarcations and/or relocations. Rodent eradication or pest control.
26. Archeologist cost and related delays.
27. Tree trimming, root pruning, protection or arborist services.
28. Overtime, shift premiums or liquidated damages.
29. Traffic and pedestrian control measures, plans and fees.
30. M&H participation in composite cleanup crews, damage repair funds, or other similar composite activities, as well as related contract deductions.
31. Design, engineering and Building Information Modeling (BIM) participation.
32. Bond premium. Bonds must be requested at execution of contract.

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SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PH 916 372 8910

Contractors License Numbers: CA: 95879, AZ: 251628, NV: 72399, OR: 184630 CIR: 100000033



33. Survey and construction staking.
34. Testing and inspection.
35. Permits and fees.
36. Compliance with project specific equipment emission standards.
37. Project specific project accounting software (Textura) costs.

Clarifications:

1. Price based on the award of the complete scope of work included herein.
2. All other work not specifically included shall be considered excluded from this budget proposal.
3. Electrical panels on buildings by MOD Space.
4. Buildings and anchorage systems by others.
5. SFWD will perform all hot taps and tie in work.
6. SFWD will supply and install water meters & boxes as needed.
7. All Soil to remain onsite. No off haul has been included per coordination meetings with M&H & SFDPW.
8. Analytic soil testing and classification performed by SFDPW.
9. The inclusions, exclusions, and clarifications noted in this proposal shall be made a part of the contract and shall supersede any conflicting provisions.

Thank you for the opportunity to provide our proposal. If you have any questions, please feel free to call.

Sincerely,

McGuire & Hester

Ed Aldine

EST.

Estimate / Budget No.: 170556

License No. CA95879

Public Works Contractor Registration No. 1000000033

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CORPORATE OFFICE 2810 HARBOR BAY PKWY ALAMEDA CA 94502 ● OAKLAND OFFICE 9009 RAILROAD AVENUE OAKLAND CA 94603 ● PH 510 632 7676

SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PH 916 372 8910

Contractors License Numbers: CA:95879, AZ:251628, NV:72399, OR:184630 CIR:100000033

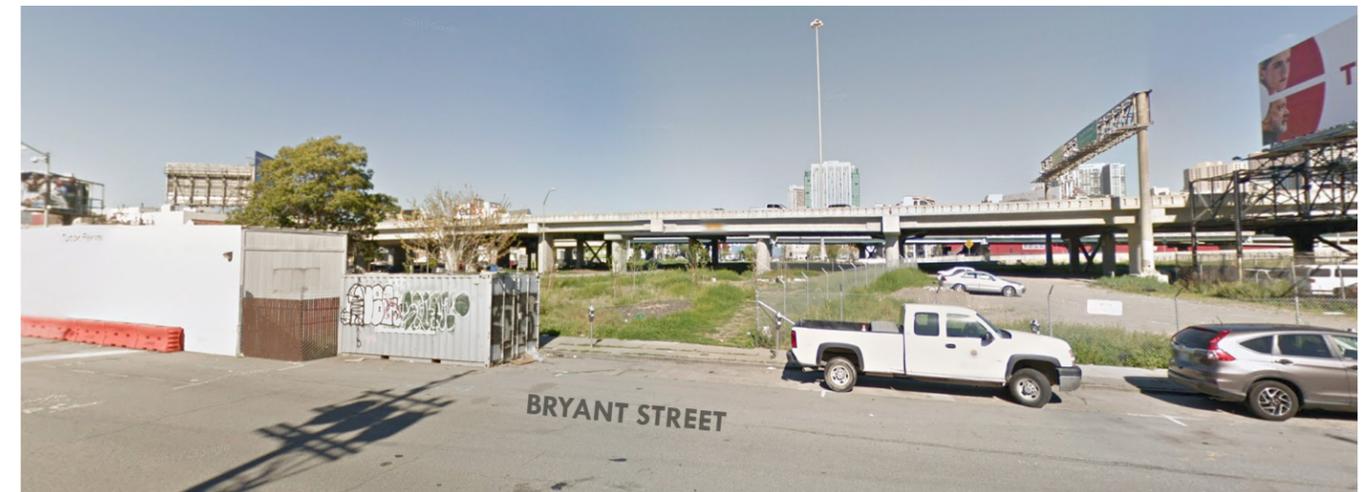
5TH ST. & BRYANT ST. - NAVIGATION CENTER

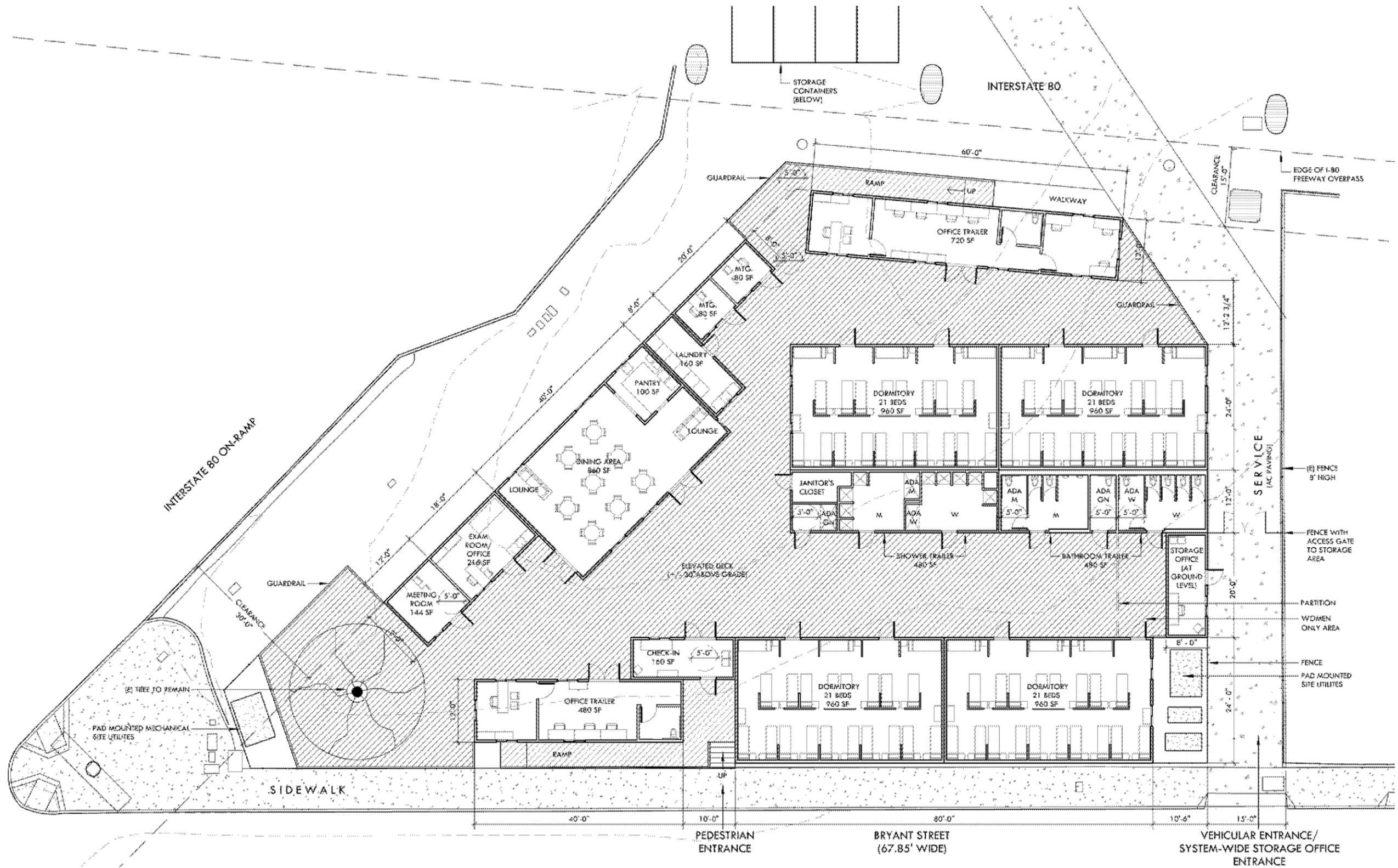
BLOCK /LOT: 3761/062 | OWNER: STATE OF CALIFORNIA | USE TYPE: ROW | ZONING: P | HEIGHT/BULK DISTRICT: 30-X

The site is currently a raw lot owned by Caltrans. Caltrans has authorized the use of the site as a Navigation Center.

84 Bed Capacity Navigation Center

Similar to the Central Waterfront Navigation Center, the site would consist of a village like cluster of modular buildings (providing dormitories, restrooms and shower facilities, dining / lounge spaces, and staff offices and meeting rooms) connected by an elevated wood deck structure which provides level access throughout the complex and carries the site utilities linking the modular buildings together. This type of solution is fully code compliant for a permanent facility and offers full insulation, integrated HVAC systems, and permanently installed hygiene facilities. Given the longer time frame required to fabricate the modular trailer units, it is not anticipated that we would need temporary site utilities.

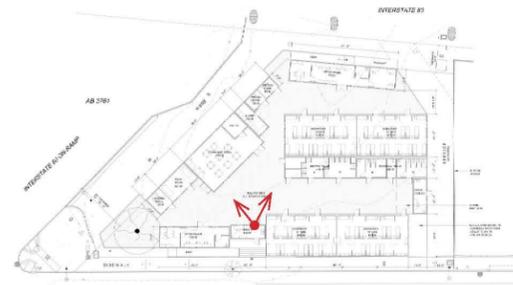
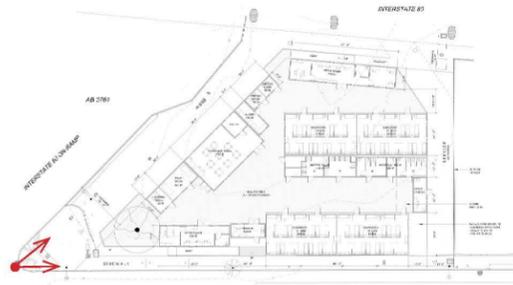


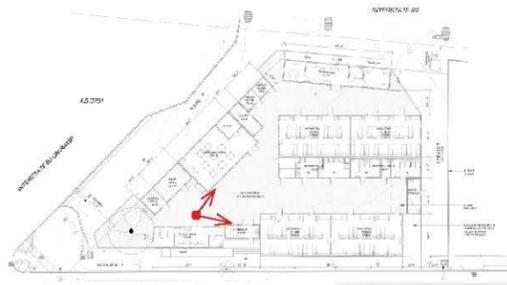
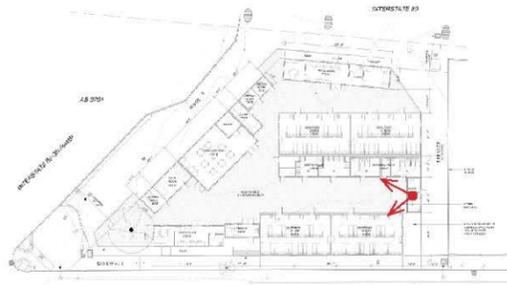


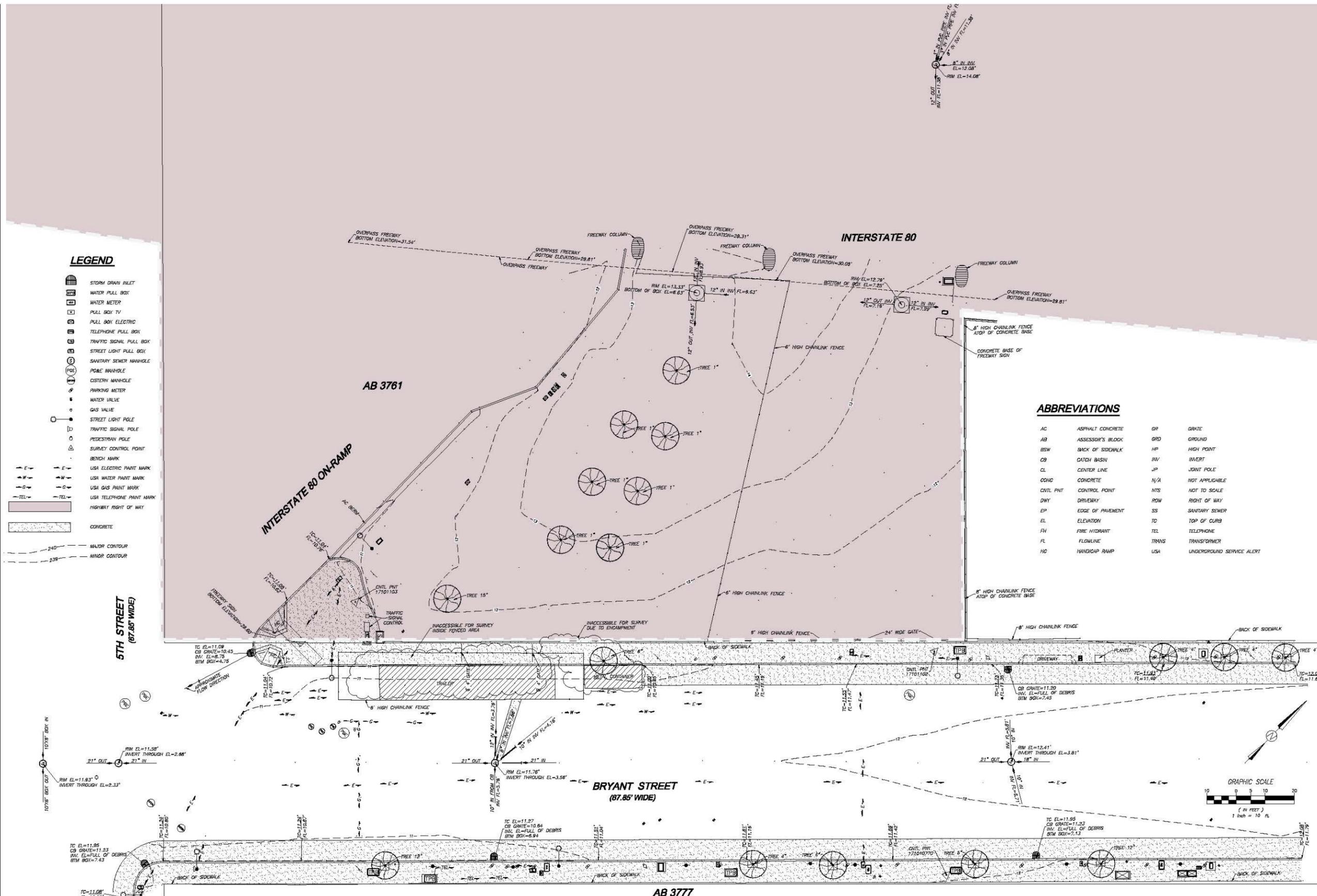
SITE AREA: 21,550 SF
 TRAILER TOTAL AREA: 7,960 SF

PROPOSED SITE PLAN: MODULAR TRAILER NAVIGATION CENTER | 20' = 1"
 5TH & BRYANT | January 19, 2018









LEGEND

- STORM DRAIN INLET
- WATER PULL BOX
- WATER METER
- PULL BOX TV
- PULL BOX ELECTRIC
- TELEPHONE PULL BOX
- TRAFFIC SIGNAL PULL BOX
- STREET LIGHT PULL BOX
- SANITARY SEWER MANHOLE
- P&G MANHOLE
- CISTERN MANHOLE
- PARKING METER
- WATER VALVE
- GAS VALVE
- STREET LIGHT POLE
- TRAFFIC SIGNAL POLE
- PEDESTRIAN POLE
- SURVEY CONTROL POINT
- BENCH MARK
- USA ELECTRIC PAINT MARK
- USA WATER PAINT MARK
- USA GAS PAINT MARK
- USA TELEPHONE PAINT MARK
- HIGHWAY RIGHT OF WAY
- CONCRETE
- MAJOR CONTOUR
- MINOR CONTOUR

ABBREVIATIONS

| | | | |
|----------|------------------|-------|---------------------------|
| AC | ASPHALT CONCRETE | GR | GRATE |
| AB | ASSESSOR'S BLOCK | GRD | GROUND |
| BSW | BACK OF SIDEWALK | HP | HIGH POINT |
| CB | CATCH BASIN | INV | INVERT |
| CL | CENTER LINE | JP | JOINT POLE |
| COND | CONCRETE | N/A | NOT APPLICABLE |
| CIVL PNT | CONTROL POINT | NTS | NOT TO SCALE |
| DWY | DRIVEWAY | ROW | RIGHT OF WAY |
| EP | EDGE OF PAVEMENT | SS | SANITARY SEWER |
| EL | ELEVATION | TC | TOP OF CURB |
| FH | FIRE HYDRANT | TEL | TELEPHONE |
| FL | FLOWLINE | TRANS | TRANSFORMER |
| HC | HANDICAP RAMP | USA | UNDERGROUND SERVICE ALERT |

| REV | BY | DATE | REVISIONS |
|-----|----|------|-----------|
| | | | |
| | | | |
| | | | |

BUREAU OF STREET USE AND MAPPING
SAN FRANCISCO PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

SURVEYED BY: JH
DRAWN BY: YH
CHECKED BY: MS
APPROVED BY: MS

TOPO DATE: 12/05/2017
SERIAL DATE: NONE
JOB NO: 3781, LOT 062

TOPOGRAPHIC SURVEY OF CALTRANS SITE AT 5TH STREET AND BRYANT STREET

PREPARED FOR
CITY AND COUNTY OF SAN FRANCISCO PUBLIC WORKS INFRASTRUCTURE DESIGN AND CONSTRUCTION

JOB NO: 2017-101
ISSUE DATE: 12/12/2017
SCALE: 1"=10'
SHEET 2 OF 2

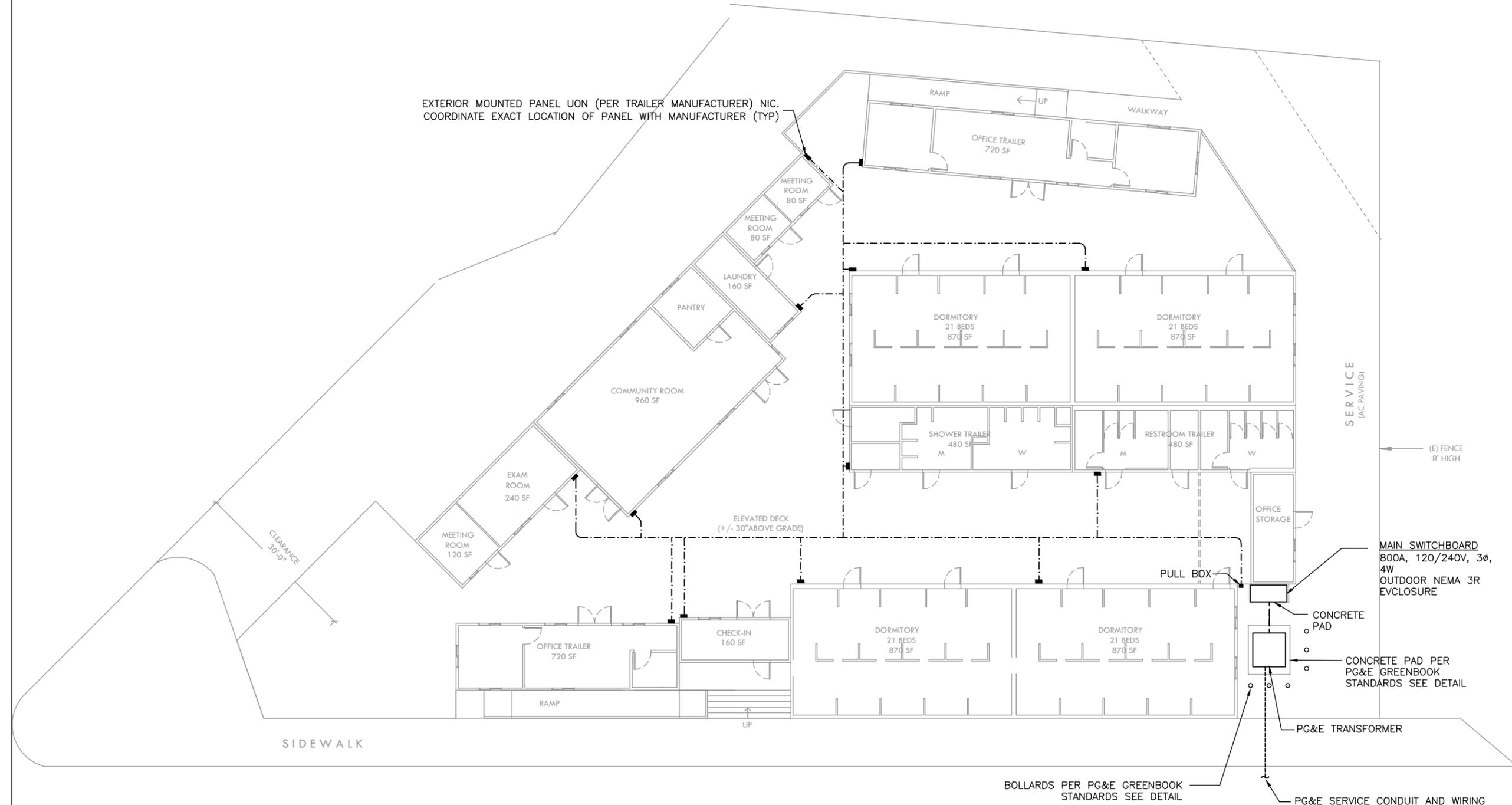
GENERAL NOTES

1. MODULAR TRAILER STRUCTURES ARE DESIGNED BY OTHERS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS FOR ELECTRICAL SERVICE CONNECTION TO INDIVIDUAL MODULAR TRAILER STRUCTURES.
2. ALL ELECTRICAL PANELS EXTERIOR MOUNTED TYP.(PER TRAILER MANUFACTURER) *EXCEPT RESTROOM TRAILER. FURNISHED AND INSTALLED BY TRAILER MANUFACTURER.
3. ALL ELECT CONDUIT TO BE INSTALLED UNDER ELEVATED DECK. (NO CONDUIT UNDER TRAILERS TYP.)

LEGEND

- UNDERGROUND CONDUIT
- - - - - CONDUIT UNDER DECK LEVEL AND ABOVE GROUND LEVEL

EXTERIOR MOUNTED PANEL UON (PER TRAILER MANUFACTURER) NIC. COORDINATE EXACT LOCATION OF PANEL WITH MANUFACTURER (TYP)



Julia Laue - Principal Architect / Division Manager
30 Van Ness Avenue Suite
San Francisco, CA 94102-6028 Fax (415)557 (415)557

Project

NAVIGATION CENTER -
5TH ST .AND BRYANT ST

224-226 SOUTH VAN NESS AVE,
SAN FRANCISCO, CA. 94103

Consultant

| | | |
|---------------------------|--|-------|
| | | |
| DESIGNED BY: EG 12/2017 | | |
| DRAWN BY: EG / BR 12/2017 | | |
| CHECKED BY: PT 12/2017 | | |
| APPROVED | | |
| SECTION MANAGER: | | DATE: |
| DEPUTY DIVISION MANAGER: | | DATE: |
| DIVISION MANAGER: | | DATE: |

| No. | Date | Revisions |
|-----|------|-----------|
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Mark Dorian - Architecture Services Manager

| | |
|--------------|----------|
| Section Head | PT |
| Proj. Mgr. | PDF |
| Proj. Arch. | PDF |
| Drawn | EG / BR |
| Date | 12/19/17 |
| Phase | 90% CD |

**NOT FOR
CONSTRUCTION**

Drawing Title

SITE PLAN

Sheet No.

E3.0

Scale: As indicated

Job No. XXXXA

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 (SEE WEBSITE FOR PHOENIXMODULAR.COM
 WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 2
 BUILDING SQ.FT. 933
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. R-2 (NON-RESIDENTIAL)
 OCCUPANCY LOAD. 22
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
 (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. ADDITIONAL HANDICAP TOILET FACILITIES PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
5. SERVICE SINK PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. DORMITORY
3. SET TYPE PAD/PIER ABOVE GRADE

DRAWING INDEX

SHEET 1: COVER SHEET
 SHEET 2: SPECIFICATIONS AND CONDITIONS
 SHEET 3: FLOOR PLAN
 SHEET 4: ELECTRICAL PLAN
 SHEET 5: REFLECTED CEILING PLAN
 SHEET 6: HVAC PLAN
 SHEET 7: CROSS SECTION, MISC. DETAILS
 SHEET 8: ELEVATIONS

DEALER:
DSMBI

PROJECT:
DORMITORY
24' x 40'
PMI-3813-2440

MANUFACTURED BY:
PHOENIX MODULAR

5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476

Appendix E

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476

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DEALER:
 DSMBI

PROJECT:
 DORMITORY

STATES:
 CALIFORNIA

SERIAL NUMBERS:
 PMI-3813-2440

DRAWN BY:
 KNBS

PLOT DATE:
 3/20/2018

REV # / DATE:

#1 2/8/2018 PR#1
 #2 2/21/2018 PR#3
 #3 3/14/2018 PR#4

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C208
 PHOENIX, AZ. 85029
 (602) 327-4769

FINAL RELEASE
 MAR 20 2018

SHEET:
 1
 OF
 8

FRAME / CHASSIS:

Frame Type: Basement
Quantity: (2) EA
Size: 11'-8"x40'-0"
Type: Outrigger @ 96 in O.C.
Crossmember @ 96 in O.C.
Module line Clips @ 96 in O.C.
Main Rails @ 99 1/2 in O.C.
Beam Size: 12 in. Jr. I-beam
Axles: TRIPLE 6000# rated with (All) brake
Hitch: Detachable
Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
Joist Length: 133-7/8 in.
Joist Spacing: 16 in. O.C.
Floor: Single layer 3/4 in. T&G Sturd-I-Floor.
Insulation: R-19 unfaced fiberglass batt
Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
Top Plate: Double 2X4 #2 HF equal or better
Bottom Plate: Single 2X4 #2 HF or better
Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
Insulation: R-13 Kraft back fiberglass batt
Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
See HVAC Schedule for Mounting Height of the HVAC Unit.

INTERIOR WALL CONSTRUCTION:

NONE PROVIDED

ROOF CONSTRUCTION:

Roof Type: Mono (Slope to Sidewalls)
Roof Slope: 1/4 to 12
Rafter size: 2X10 #2 HF equal or better
(Roof diaphragm chord strap 'ST2215' at rafters installed on-site, see detail 2/7)
Rafter Length: 133 1/8 in.
Spacing: 16 in. O.C.
Mate Beam: Steel clearspan web truss with (wood) columns at each end
Height: 18 in.
Length: 40 ft.
No. of Beams: 2
Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
Sheathing: 1/2 in. 24/0 Sheathing
Roofing: 45 mil single ply EPDM over 1/4" Densdeck
Color: White

Additional Roof Items Included in Quoted Price:
N/A

FINISHES:

FLOOR COVERING

Type 1: 0.080 Linoleum
Location: (Thru-out)
Color to be: (White Cliff)
SHIPPED LOOSE LINO & ALL INSTALLATION MATERIAL TO BE ON SITE BY OTHERS

BASE

Cove Base 1: 4 in. vinyl cove.
Location: (Thru-out)
Color to be: (Gray)
SHIPPED LOOSE COVE BASE & ALL INSTALLATION MATERIAL TO BE ON SITE BY OTHERS

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
Location: (Thru-out)
Height: 8 ft.
Color to be: (Tiki Grass Chalk).

TRIM

Wall Trim 1: Vinyl Covered trim (BOTTOM 18" HELD LOOSE)
Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
(Mineral Fiber Tile #769 or Equal)
Height: 7'-10"

Installed at factory, held back at module lines. (See Hatching)
Completion of ceiling installation on-site by others; not in PMI's scope.

EXTERIOR

Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
Hood: Color: (MAJESTIC BLUE)
Corner trim: Color: (MAJESTIC BLUE)
Door & window trim: Color: (MAJESTIC BLUE)
Bottom horizontal trim: Color: (MAJESTIC BLUE)
Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
Top horizontal trim: Color: (MAJESTIC BLUE)
Module line trim: Color: (Match hood above intermediate horizontal trim & match body below)
All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: (SEE WINDOW SCHEDULE)

CLOSEUP:

Type: Hard
Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
Counters: None provided
Shelving: None provided



5300 W. MADISON ST. PHOENIX, AZ 85043
TEL 602-447-6400 FAX 602-447-6475

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DEALER:
DSMBI

PROJECT:
DORMITORY

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3813-2440

DRAWN BY:
KNBS

PLOT DATE:
3/20/2018

REV # / DATE:
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#3 3/14/2018 PR#4

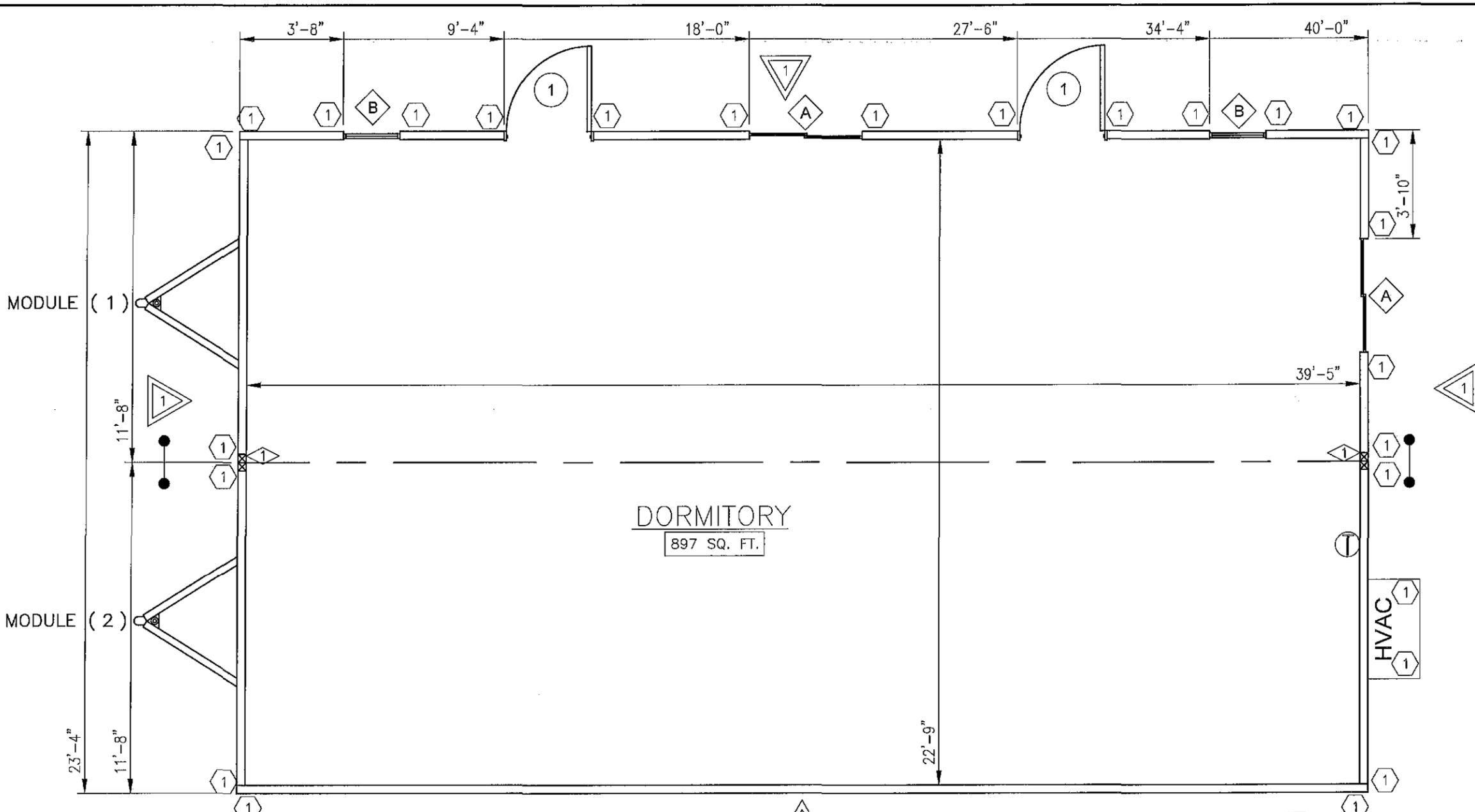
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PHOENIX, AZ 85029
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SHEET:

2
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MAR 20 2018



1 FLOOR PLAN
 1/4"=1'-0" SQUARE FOOTAGE - 933 S.F.
 OCCUPANCY LOAD = 22

| STRUCTURAL LEGEND | |
|-------------------|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | DIAPHRAGM CHORD TIE SIMPSON 'ST2215' (SEE DETAIL 2/7, TYP 2) |
| | (1) 3.5 in. x 3.5 in. LVL 2.0 E GRADE POST ON EA. SIDE OF MOD-LINE w/ BLOCKING PROVIDED UNDER POST. (TYP. 2 LOCATIONS) (TYP. #3 HOLDOWN STRAP TOP & BOT.) |

| WINDOWS: | | | | | | | | | |
|----------|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|---|--|
| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
| 2 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4040 | 48" x 48" | 0.48 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR TO BE: (WHITE SATIN) W/ ADA WAND | HEADER AT 8" AFF HANDLE @ BOTTOM OF WINDOW |
| 2 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2040 | 24" x 48" | 0.48 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR TO BE: (WHITE SATIN) W/ ADA WAND | HEADER AT 8" AFF |

| DOORS: | | | | | | | | | | | | | | | |
|--------|-----|------------------------------------|--------------------------|----------------|---------|------|---------------|----------|---|-----------|--------------------------|-----------------------------|-------------|--------|---|
| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | 16 GA. KD, MAJESTIC BLUE | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | SINGLE CYLINDER, GRADE 2 | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH: 602-447-6460 FAX: 602-447-6476
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DEALER: DSMBI

PROJECT: DORMITORY

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3813-2440

DRAWN BY: KN/BS

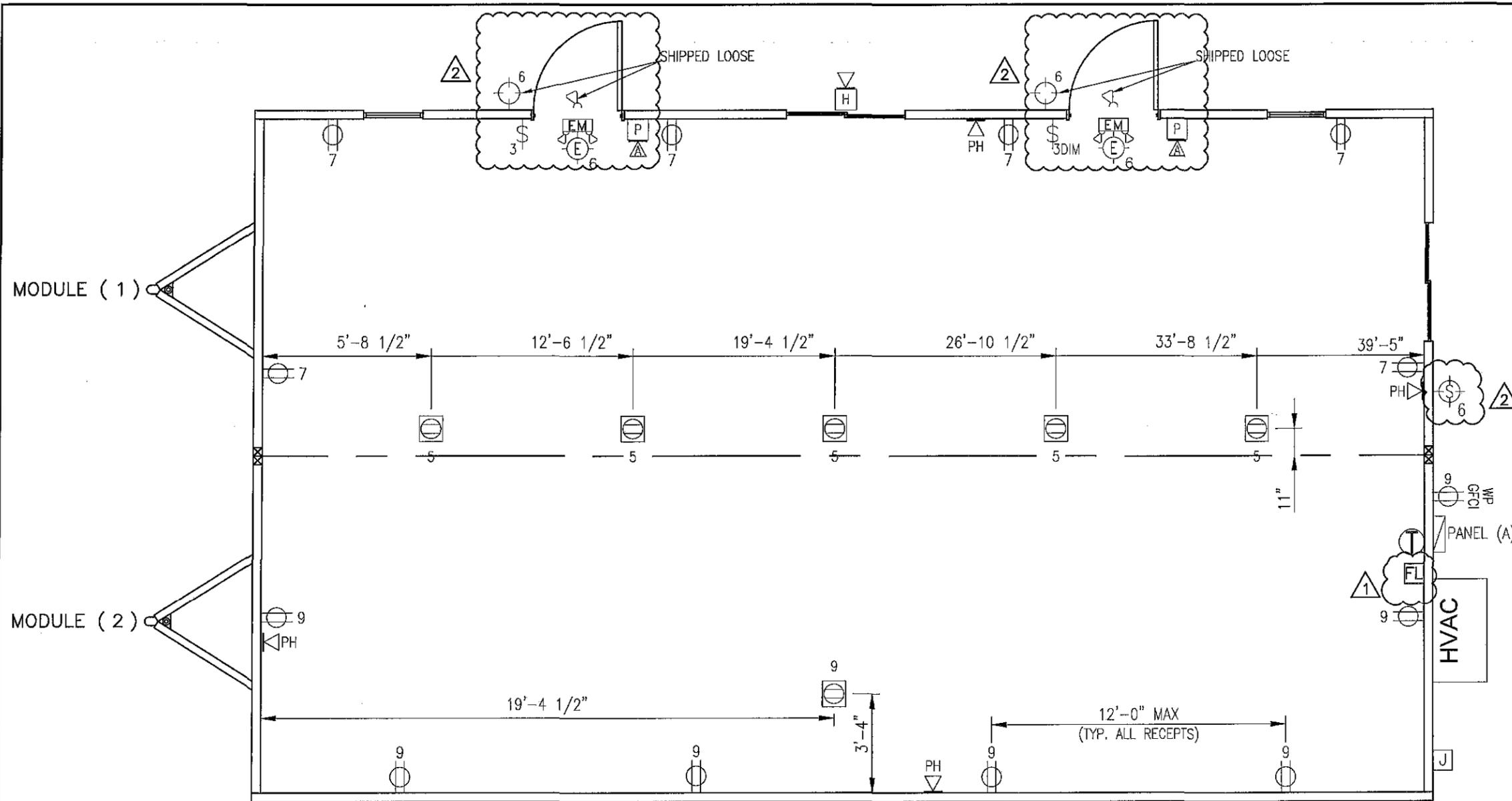
PLOT DATE: 3/20/2018

REV # / DATE:
 #1 2/18/2018 PR#1
 #2 2/21/2018 PR#3
 #3 3/14/2018 PR#4

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C208
 PHOENIX, AZ 85029
 (602) 327-4769

FINAL RELEASE
 MAR 20 2018

SHEET: 3 OF 8



1 ELECTRICAL PLAN
1/4"=1'-0"

| 125 AMP 120/240 1 PHASE | | | | | | | |
|---|---|---------|-----|-------|-------|-------|---|
| PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R) | | | | | | | |
| W's | Description | Circuit | BRK | A | B | BRK | Description |
| 8 | 10kw. HEA TS TRIP | 1 | 30 | 4200 | 6240 | 30 | HYVAC UNIT 4-TON |
| 8 | | 3 | 2 | 4200 | 6240 | 2 | |
| 12 | (6) FLOOR RECEPTS (ARC FAULT BREAKER) | 5 | 20 | 900 | 400 | 20 | (8) L.E.D.s, (3) PORCH, (2) EM/EX LITES |
| 12 | (6) STD. RECEPTS (ARC FAULT BREAKER) | 7 | 20 | 1080 | | 8 | Space |
| 12 | (9) RCPTS, (1) W/P GFCI, (1) FLR RCPT (ARC FAULT BREAKER) | 9 | 20 | 1440 | | 10 | Space |
| 12 | Space | 11 | | | | 12 | Space |
| | | | | 23420 | 14520 | Total | |

2 ELECTRICAL CALCULATION:
GENERAL LIGHTING:
897 SQ. FT. x 3.5 x 1.25 = 3924 wats
19 RECEPTACLES = 3420 wats
1 HVAC UNITS = 20880 wats
TYPE OF PANEL: LOAD CENTER
38224 wats divide by 240 volts = 117.6 AMPS TOTAL

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|---|-------|-----|----------------------------|
| PANEL | 125 AMP 1 PHASE 120/240W/ 125 AMP MAIN, 60" A.F.F. TO TOP OF PANEL, EXT. SURFACE (N.B.S.) | N/A | 1 | (3) ARC FAULT CIRCUITS |
| ⊕ | INDEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 12 | ON ARC FAULT CIRCUITS |
| ⊕ | GFCI DUPLEX RCPT. w/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | |
| ⊕ | WALKER 880-W1 1-GANG WOOD FLOOR BOX WALKER 817-PCO-BLK CARPET FLANGE WALKER 828PR-BLK COVER FOR 817. | BLACK | 6 | ON ARC FAULT CIRCUITS |
| ⊕ | 3 WAY SWITCH W/COVER PLATE @ 48" A.F.F. U.N.O. (N.B.S.) | IVORY | 1 | CEILING SENSOR OVERRIDE |
| ⊕ | 3 WAY WALL MNTD DIMMING SWITCH W/ COVER PLATE @ 48" A.F.F. U.N.O. (N.B.S.) | IVORY | 1 | CEILING SENSOR OVERRIDE |
| ⊕ | CEILING MNTD OCCUPANCY SENSOR (LEGRAND CS1200) w/ POWER PACK (PW120/277) OR EQUAL | WHITE | 1 | |
| J | 6x6x6NEMA 3R J-BOX SEMI-RECESSED MNTD @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| FL | 2x4 J-BOX @ 48" A.F.F. w/ 3/4" CONDUIT STUBBED w/ T-STAT WIRE TO J-BOX @ RAFTERS w/ COVER PLATE | N/A | 1 | FOR FILTER LIGHT INDICATOR |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 1 | FUTURE EXT. LIGHT |
| R | 2x4 J-BOX w/ RELAY @ RAFTERS w/ COVER PLATE U.N.O. | N/A | 1 | FOR FILTER RELAY |

ELECTRICAL SCHEDULE CONT.

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--|---|-------|-----|---|
| ⊕ | THERMOSTAT @ 45" A.F.F. U.N.O. BRAND: H.P. BARD MULTI-STAGE B403-080 | N/A | 1 | (PROGRAMMABLE) |
| ⊕ | 2x4-LED TUBE FLUORESCENT FIXTURE, RECESSED, DIFFUSED, (NO BRAND SPECIFIED) | N/A | 8 | |
| ⊕ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22GW-PC | N/A | 2 | w/ PHOTOCELL ON LIGHT SHIPPED LOOSE |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 58" A.F.F. w/ BATT. BACKUP & REMOTE HEAD @ 88" A.F.F. | N/A | 2 | OCTAGONAL BOX FOR REMOTE HEAD SHIPPED LOOSE |
| ⊕ | 4x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO VISUAL |
| ⊕ | 2x4 J-BOX @ 48" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE | IVORY | 2 | FOR FUTURE PULL STATION |
| ⊕ | 2x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | N/A | 1 | FOR FUTURE EXT. HORN |
| ⊕ | 4x4 J-BOX @ 102" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ SOL. MUD RING AND COVER PLATE | IVORY | 4 | FOR FUTURE TELEPHONE |
| RACEWAY MC/FLEX | | | | |
| NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE. 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF. 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE). | | | | |

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DEALER: DSMBI

PROJECT: DORMITORY

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3813-2440

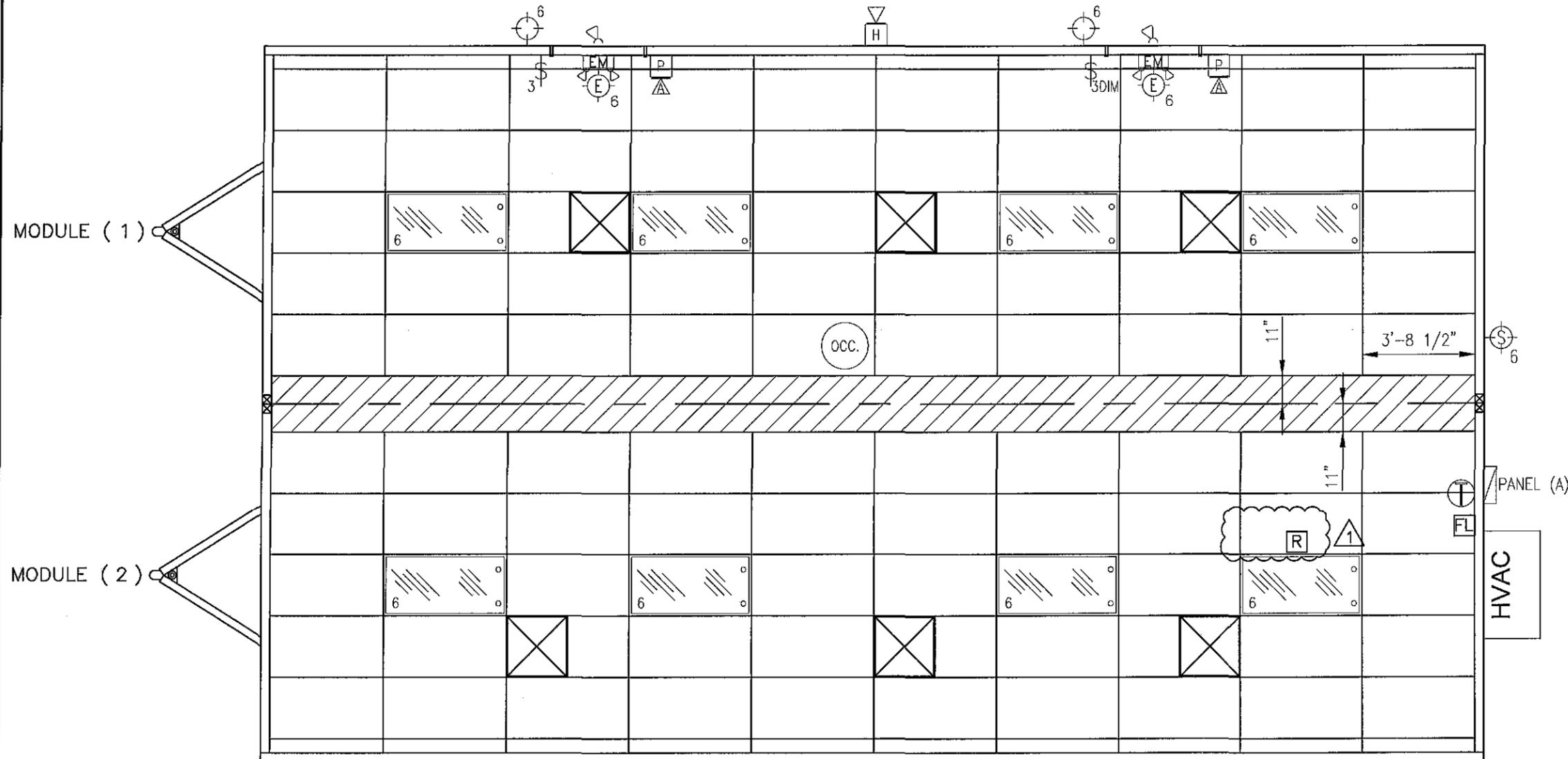
DRAWN BY: KNBS

PLOT DATE: 3/20/2018

REV # / DATE:
#1 2/8/2018 PR#1
#2 2/21/2018 PR#3
#3 3/14/2018 PR#4

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11225 N. 28TH DR., BLDG. C, #C209
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SHEET: 4 OF 8



1 REFLECTED CEILING PLAN
1/4"=1'-0"

NOTE:
SMOKE DETECTOR LOCATIONS/QUANTITIES
ARE SHOWN ON THE FIRE ALARM PLANS
& ARE TO BE PROVIDED/INSTALLED BY
OTHERS ON SITE

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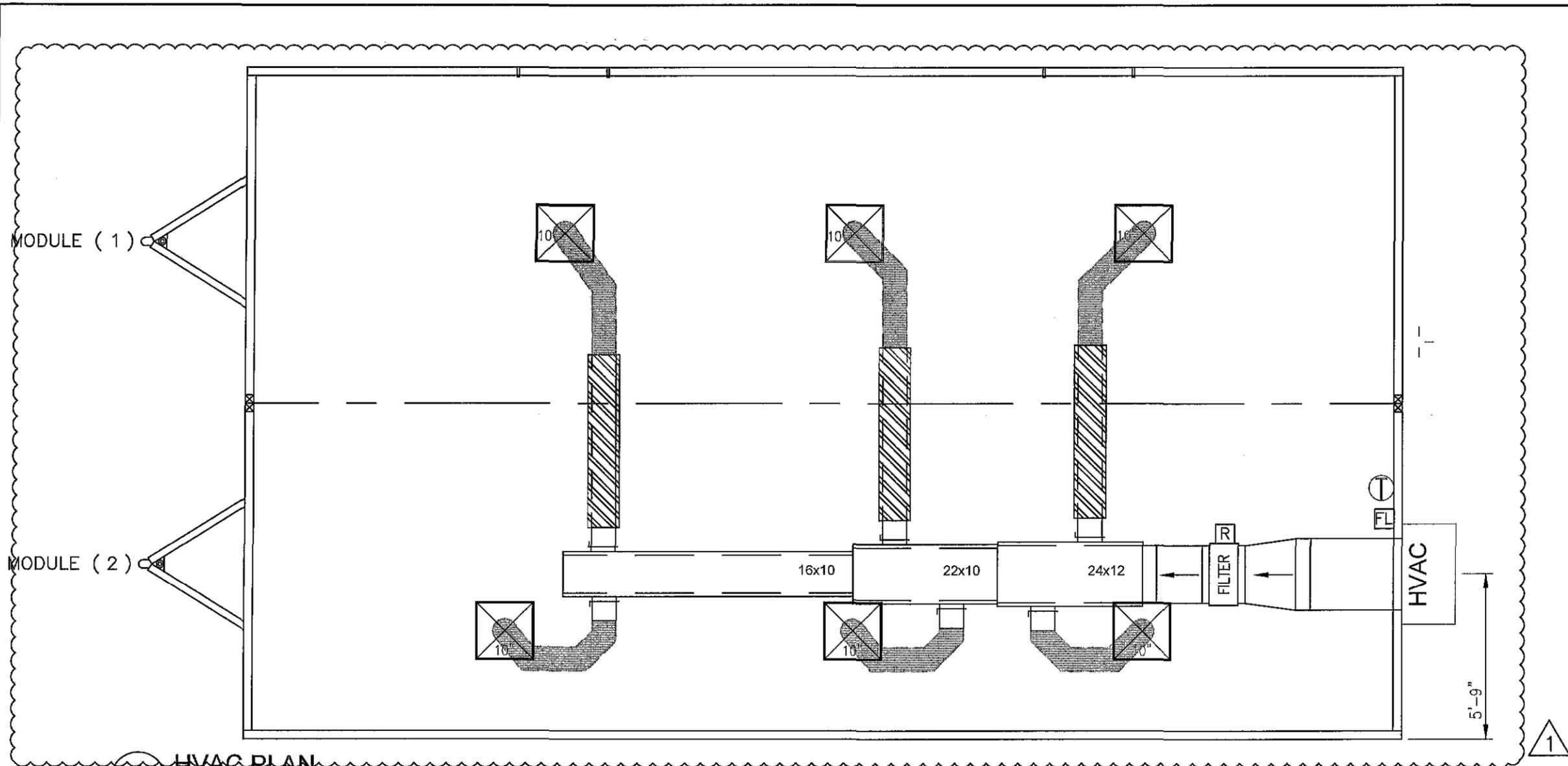
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OF
8



1 HVAC PLAN
1/4"=1'-0"

| HVAC SCHEDULE | | |
|--|--|------|
| SYM | DESCRIPTION | QTY |
| | 4 TON H/PW/ 10kw HEAT STRIP (F.A.D.) MODEL # (W48H2-A1Q) MOUNT @ 118-1/2" AFF TO TOP OF SUPPLY OPENING | 1 |
| | 30" x 10" GALV. SLEEVE x 38" LONG | 1 |
| | MERV 14 FILTER RACK (3 PIECES) SUPPLIED BY GP ASSEMBLE AND SEAL ALL SEAMS WRAPPED w/R-6 | 1 |
| | 30"x16" STAMP FACED THRU WALL RETURN AIR GRILL w/ 31" x 17" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| | 24"x12"x10'-0" FIBERGLASS DUCT. | 0.5 |
| | 22"x10"x10'-0" FIBERGLASS DUCT. | 0.5 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 6 |
| | 10" GALV'D DUCT (R-6 INSULATION) | 18LF |
| NOTE: INSTALL HVAC DUCTS 6" MIN. DOWN FROM RAFTERS. FLEX DUCT NOT TO EXCEED 5' | | |

1

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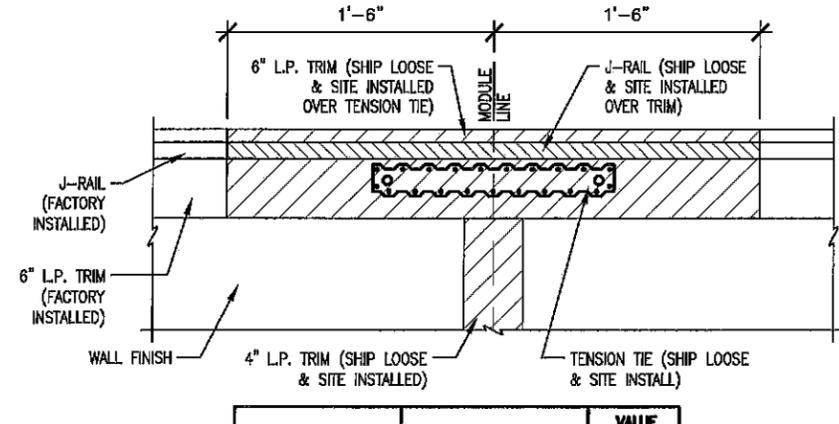
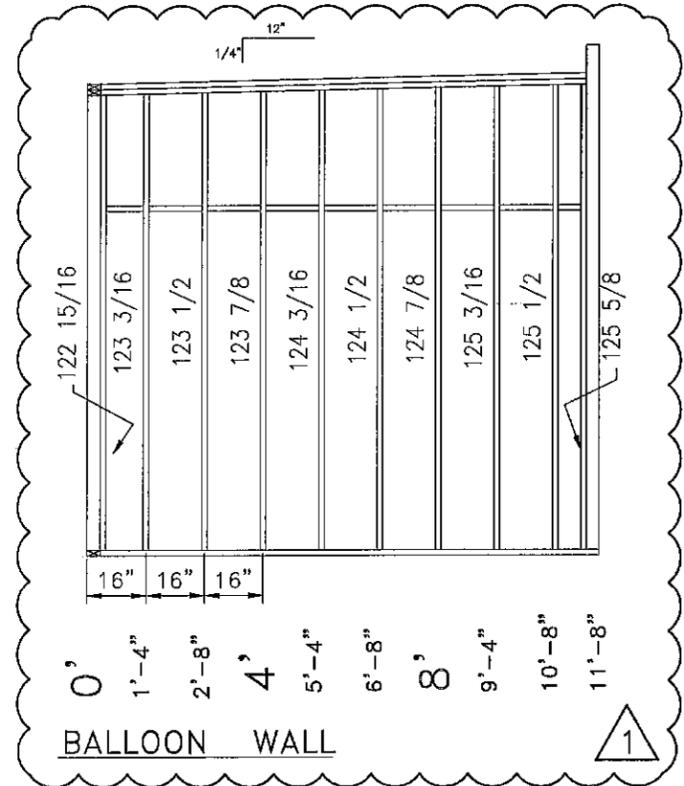
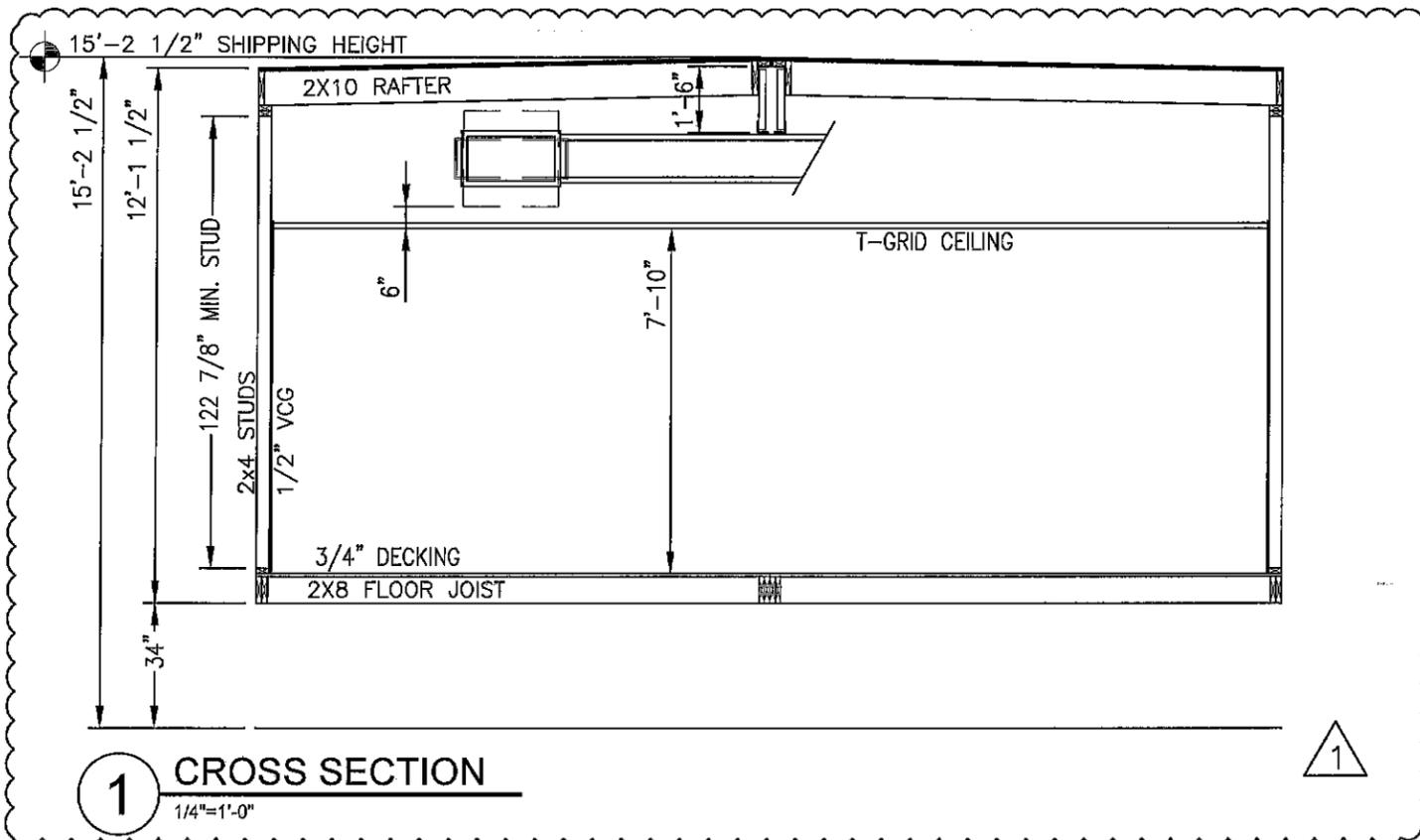
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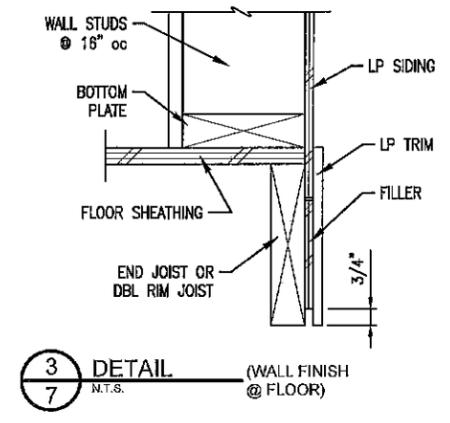
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| STRAP TYPE | FASTENERS | VALUE (LBS) |
|------------------|---------------------------------------|-------------|
| SIMPSON 'ST2215' | (20) 10d NAILS (0.148\" x 1-1/2\") | 991 |



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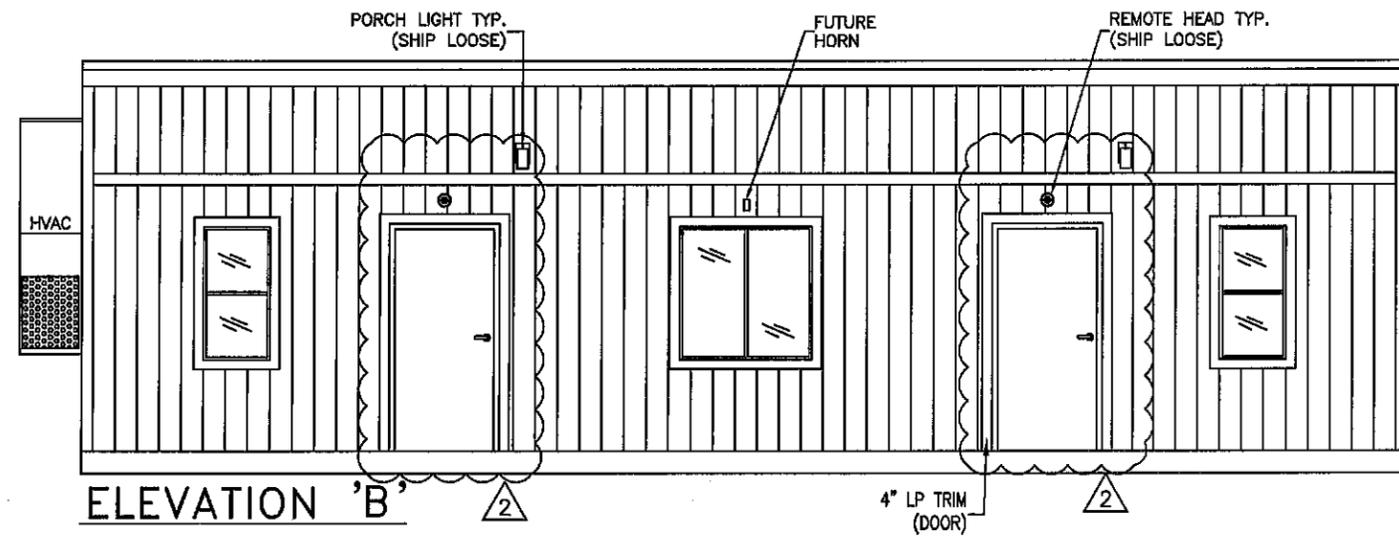
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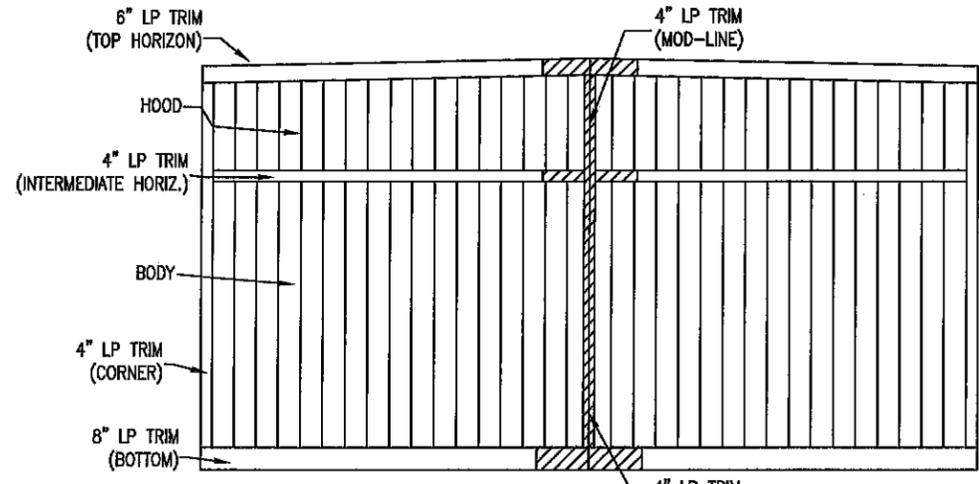
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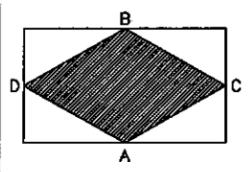
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7
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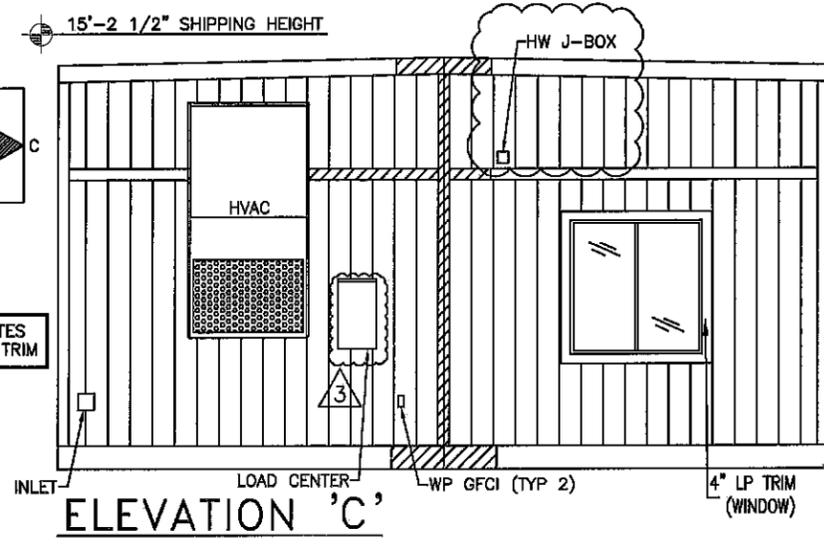
ELEVATION 'B'



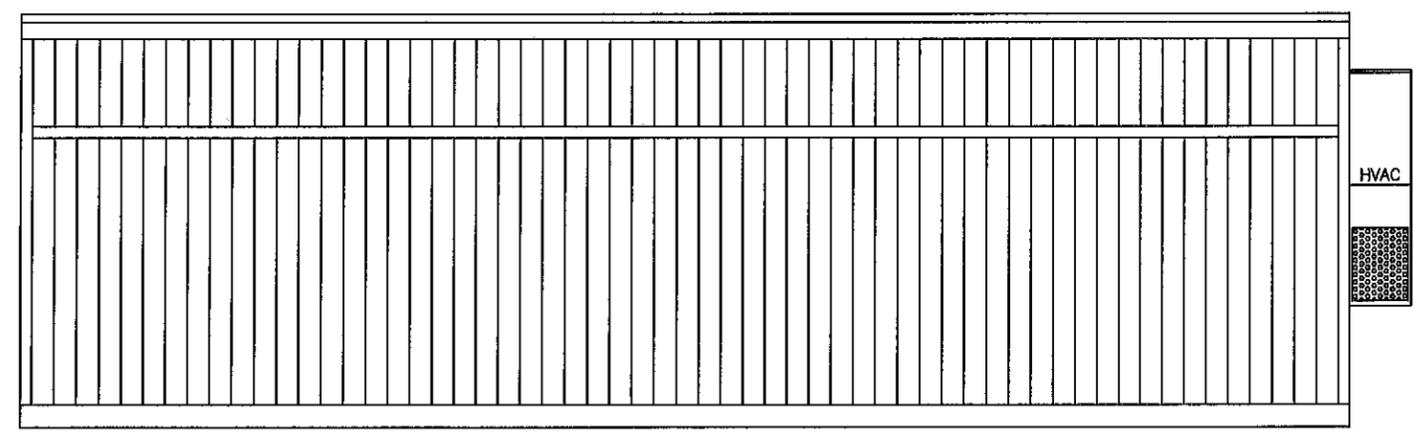
ELEVATION 'D'



HATCH DENOTES SHIP LOOSE TRIM



ELEVATION 'C'



ELEVATION 'A'

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 PHOENIX, AZ 85029
 (602) 327-4769

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SHEET:

8 OF 8

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 (SEE WEBSITE FOR WARRANTY INFORMATION) PHOENIXMODULAR.COM

DESIGN CRITERIA / LOADS:

NO OF MODULES. 2
 BUILDING SQ.FT. 933
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. R-2 (NON-RESIDENTIAL)
 OCCUPANCY LOAD. 22
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Se=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES;
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. ADDITIONAL HANDICAP TOILET FACILITIES PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
5. SERVICE SINK PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. DORMITORY
3. SET TYPE PAD/PIER ABOVE GRADE

DRAWING INDEX

SHEET 1: COVER SHEET
 SHEET 2: SPECIFICATIONS AND CONDITIONS
 SHEET 3: FLOOR PLAN, DOOR & WINDOW SCHEDULE
 SHEET 4: ELECTRICAL PLAN, ELECTRICAL PANEL, ELECTRICAL SCHEDULE
 SHEET 5: REFLECTED CEILING PLAN
 SHEET 6: HVAC PLAN & HVAC SCHEDULE
 SHEET 7: CROSS SECTION, MISC. DETAILS
 SHEET 8: ELEVATIONS

DEALER:
 DSMBI

PROJECT:
 DORMITORY
 24' x 40'
 PMI-3814-2440

MANUFACTURED BY:

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PROJECT:
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STATES:
CA

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PMI-3814-2440

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SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C208
PHOENIX, AZ. 85029
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SHEET:
1
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8

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (2) EA
 Size: 11'-8" x 40'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in O.C.
 Module line Clips @ 96 in O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: Triple 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:

Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. T & G Sturd-I-Floor
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:

Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

See HVAC Schedule for Mounting Height of the HVAC Unit.

INTERIOR WALL CONSTRUCTION:

NONE PROVIDED

ROOF CONSTRUCTION:

Roof Type: Mono (Slope to Sidewalls)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 (Roof diaphragm chord strap 'ST2215' at rafters installed on-site, see detail 2/7)
 Rafter Length: 133 1/8 in.
 Spacing: 16 in. O.C.
 Mate Beam: Steel clearspan web truss with (wood) columns at each end
 Height: 18 in.
 Length: 40 ft.
 No. of Beams: 2
 Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:

N/A

FINISHES:**FLOOR COVERING**

Type 1: 0.080 Linoleum
 Location: (Thru-out)
 Color to be: (White Cliff)
 LINO & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: (Thru-out)
 Color to be: (Gray)
 COVE BASE & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: (Thru-out)
 Height: 8 ft.
 Color to be: (Tiki Grass Chalk).

TRIM

Wall Trim 1: Vinyl Covered trim (BOTTOM 18" HELD LOOSE)
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Mineral Fiber Tile #769 or Equal)
 Height: 7'-10"

Installed at factory, held back at module lines. (See Hatching)
 Completion of ceiling installation on-site by others; not in PMI's scope.

EXTERIOR

Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
 Hood: Color: (MAJESTIC BLUE)
 Corner trim: Color: (MAJESTIC BLUE)
 Door & window trim: Color: (MAJESTIC BLUE)
 Bottom horizontal trim: Color: (MAJESTIC BLUE)
 Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
 Top horizontal trim: Color: (MAJESTIC BLUE)
 Module line trim: Color: (Match hood above intermediate horizontal trim & match body below)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)**WINDOWS:** (SEE WINDOW SCHEDULE)**CLOSEUP:**

Type: Hard
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

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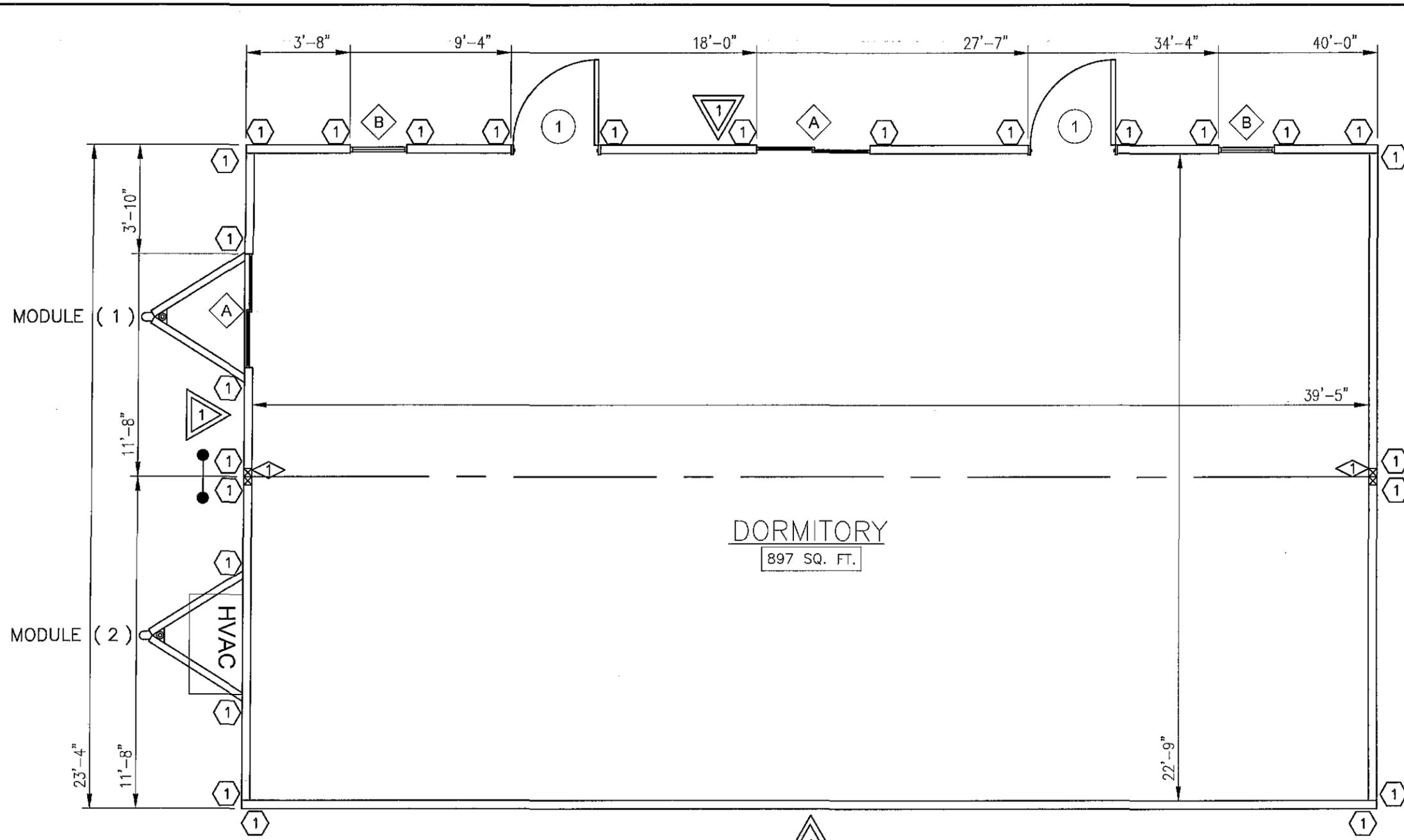
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| STRUCTURAL LEGEND | |
|-------------------|---|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | DIAPHRAGM CHORD TIE SIMPSON 'ST2215' (SEE DETAIL 2/7, TYP 2) |
| | (1) 3.5 in. x 3.5 in. LVL 2.0 E GRADE POST ON EA. SIDE OF MOD-LINE w/ BLOCKING PROVIDED UNDER POST. (TYP. 2 LOCATIONS) (TYP. #3 HOLDOWN STRAP TOP & BOT.) |

1 FLOOR PLAN
 1/4"=1'-0" SQUARE FOOTAGE - 933 S.F.
 OCCUPANCY LOAD = 22

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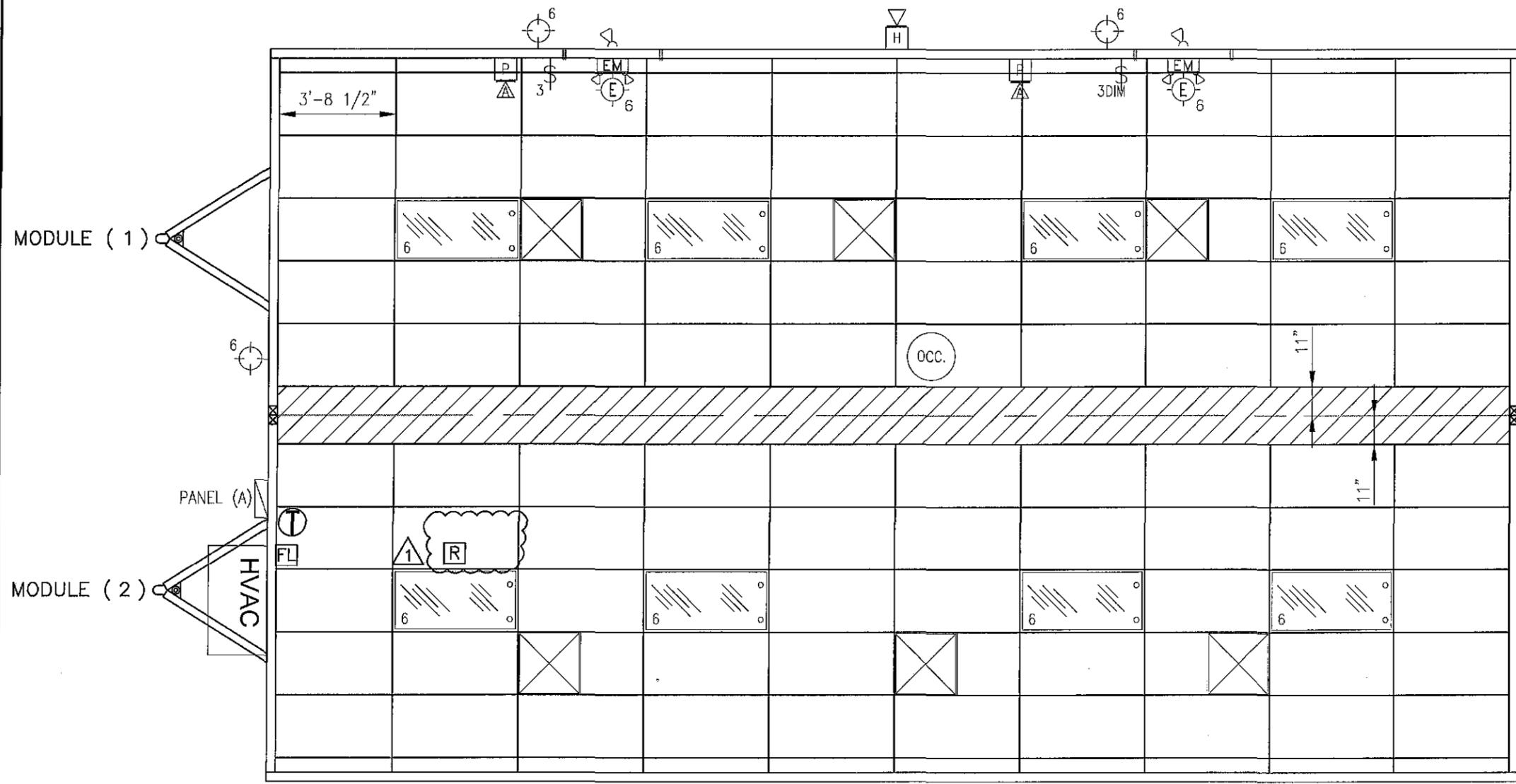
| DOORS: | | | | | | | | | | | | | | | |
|--------|-----|------------------------------------|---------------------------|----------------|---------|------|---------------|----------|--|-----------|-----------------|-----------------------------|-------------|--------|---|
| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | 18 GA. ICD, MAJESTIC BLUE | 4 7/16" | NONE | 3066 | 38" x 61" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALUKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

| WINDOWS: | | | | | | | | | |
|----------|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|---|--|
| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
| 2 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4040 | 48" x 48" | 0.48 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM COLOR TO BE: (WHITE SATIN C205) W/ ADA WAND | HEADER AT 81" AFF LATCH @ BOTTOM OF WINDOW |
| 2 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2040 | 24" x 48" | 0.48 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM COLOR TO BE: (WHITE SATIN C205) W/ ADA WAND | HEADER AT 81" AFF |

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SHEET:
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8



1 REFLECTED CEILING PLAN
1/4"=1'-0"

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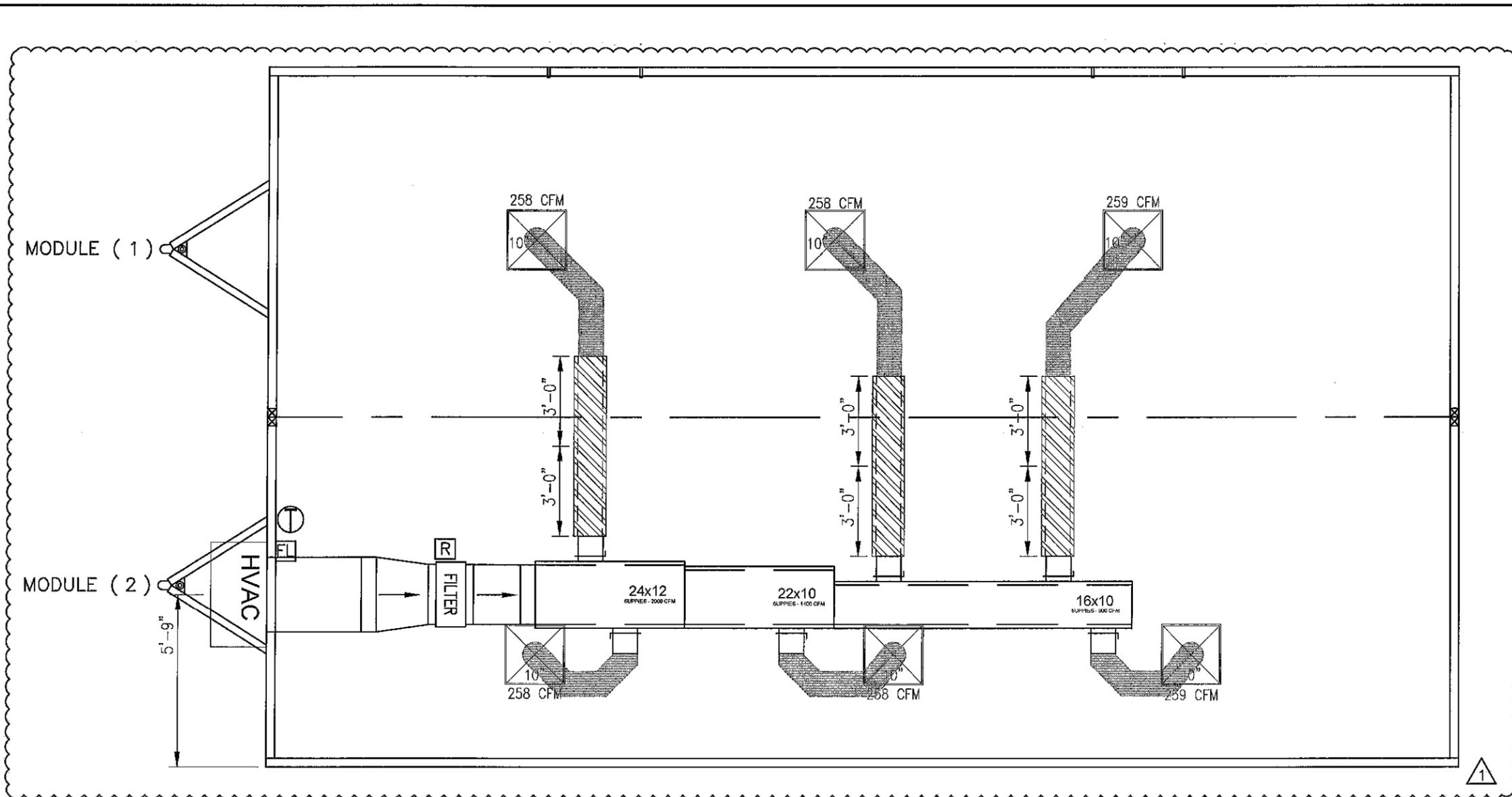
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R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C208
PHOENIX, AZ 85029
(602) 327-4769

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SHEET:
5
OF
8



1 HVAC PLAN
1/4"=1'-0"

| HVAC SCHEDULE | | |
|---------------|--|------|
| SYM | DESCRIPTION | QTY |
| | 4 TON H/PW/ 10kw HEAT STRIP (F.A.D.) MODEL # (W48H2-A1Q) MOUNT @ 118-1/2" AFF TO TOP OF SUPPLY OPENING | 1 |
| | 30" x 10" GALV. SLEEVE x 38" LONG | 1 |
| | MERV 14 FILTER RACK (3 PIECES) SUPPLIED BY GP ASSEMBLE AND SEAL ALL SEAMS WRAPPED w/R-6 | 1 |
| | 30"x18" STAMP FACED THRU WALL RETURN AIR GRILL w/ 31" x 17" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| | 24"x12"x10'-0" FIBERGLASS DUCT. | 0.5 |
| | 22"x10"x10'-0" FIBERGLASS DUCT. | 0.5 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 6 |
| | 10" GALV'D DUCT (R-6 INSULATION) | 18LF |

NOTE: INSTALL HVAC DUCTS 6" MIN. DOWN FROM RAFTERS.
FLEX DUCT NOT TO EXCEED 5'

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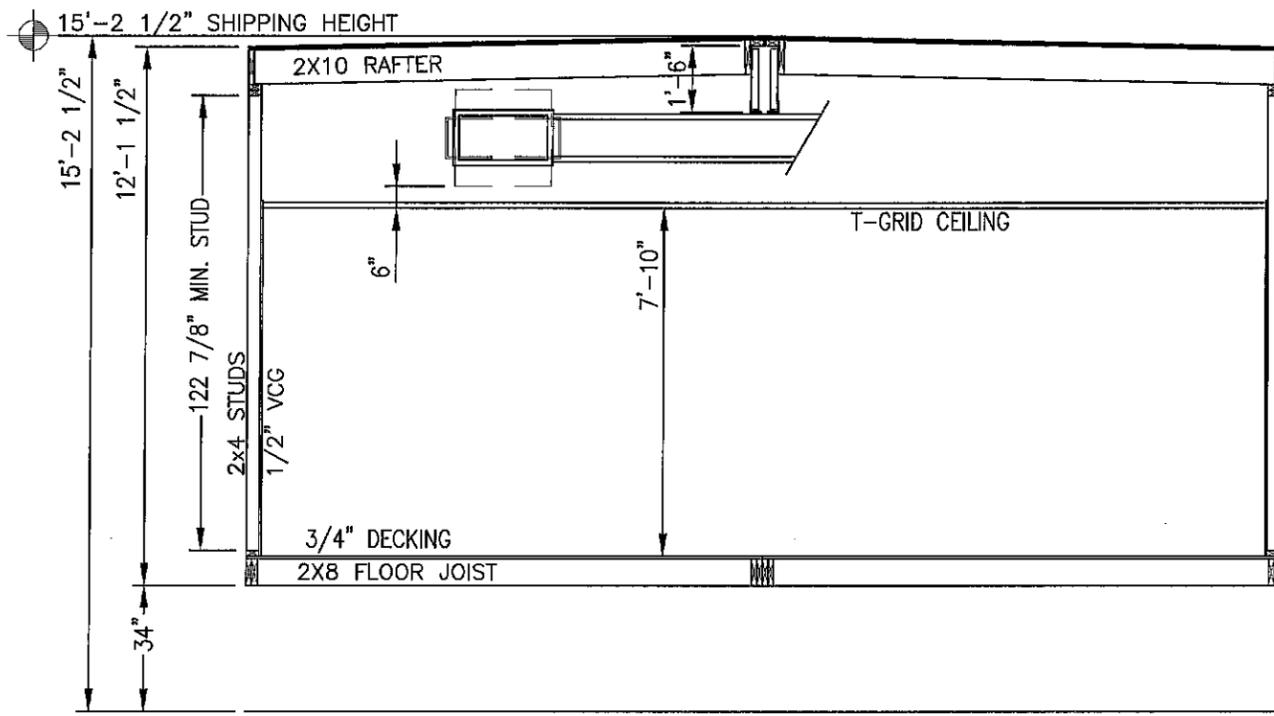
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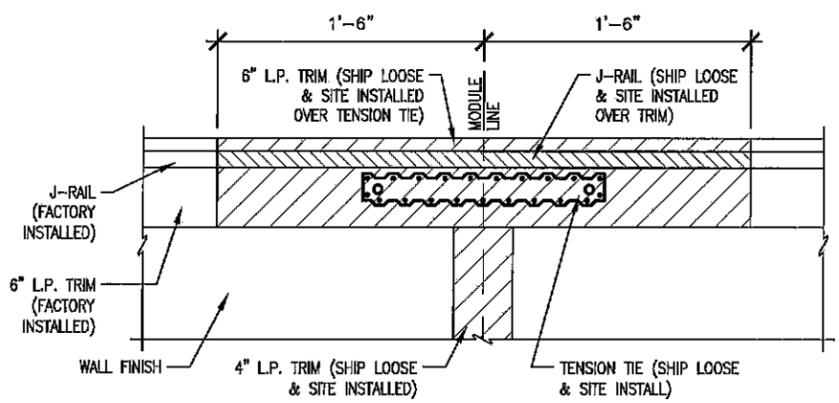
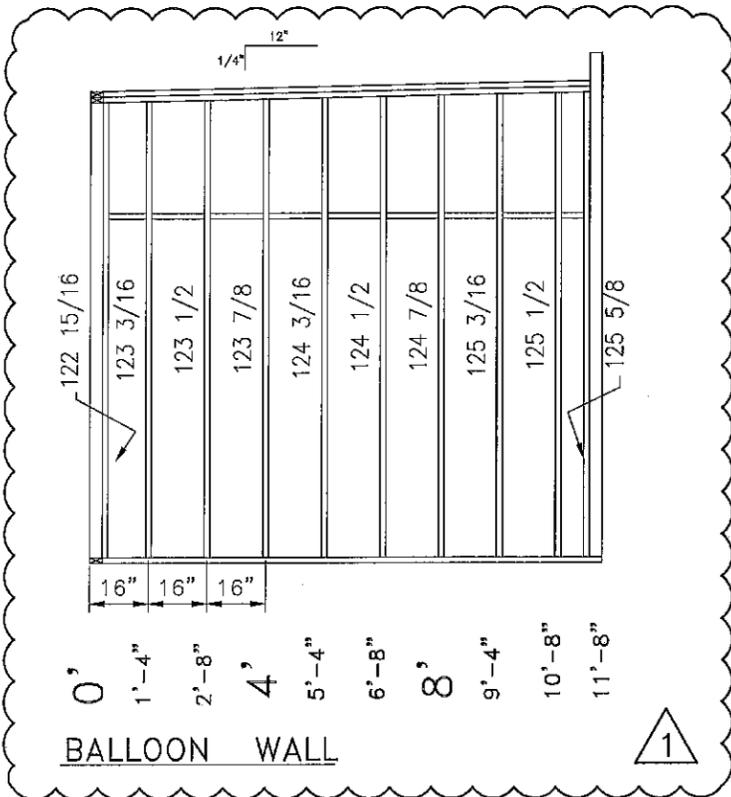
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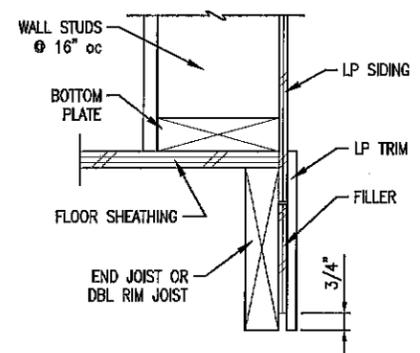


1 CROSS SECTION
1/4"=1'-0"



| STRAP TYPE | FASTENERS | VALUE (LBS) |
|------------------|-------------------------------------|-------------|
| SIMPSON 'ST2215' | (20) 10d NAILS (0.148" x 1-1/2") | 991 |

2 DETAIL (ROOF DIAPHRAGM MODULE LINE CHORD TIE)
N.T.S.



3 DETAIL (WALL FINISH @ FLOOR)
N.T.S.

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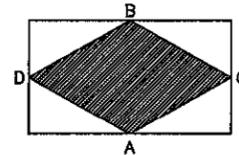
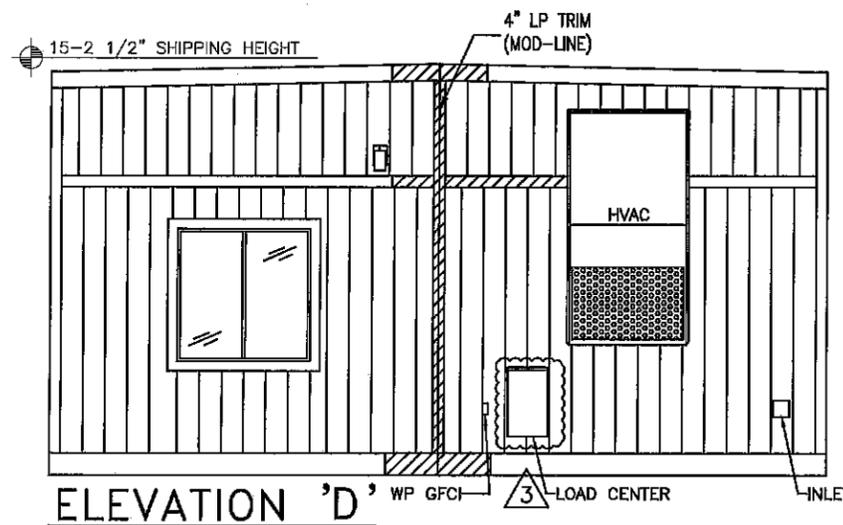
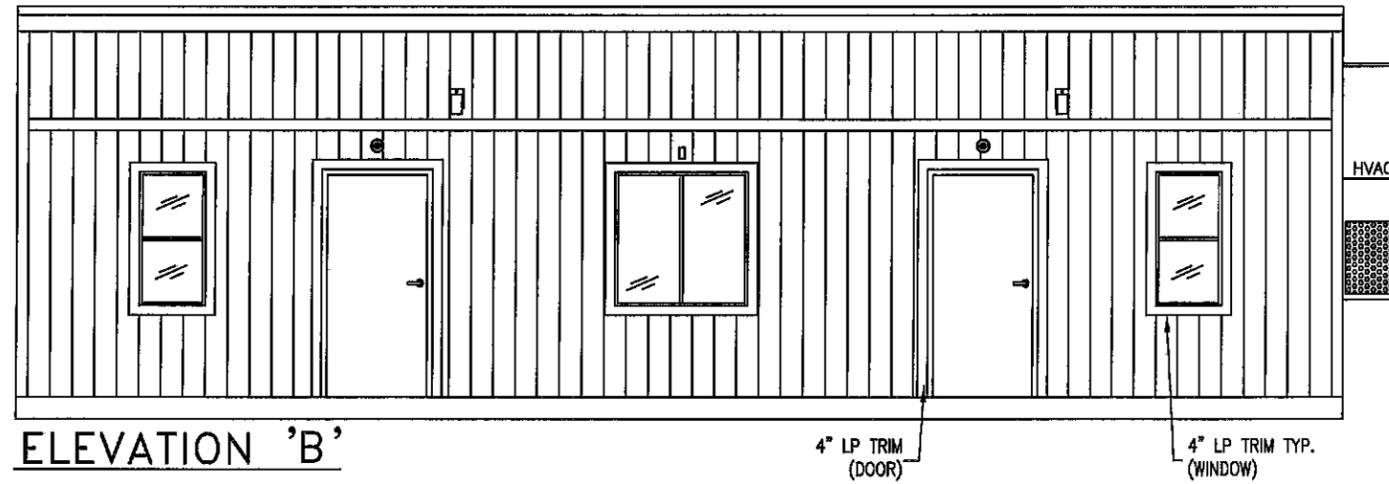
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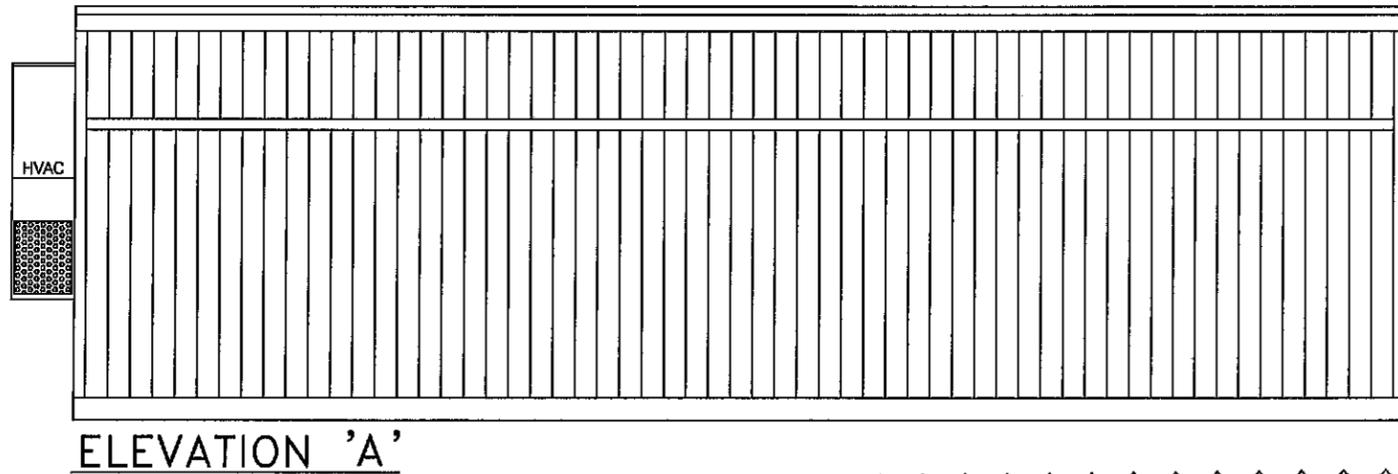
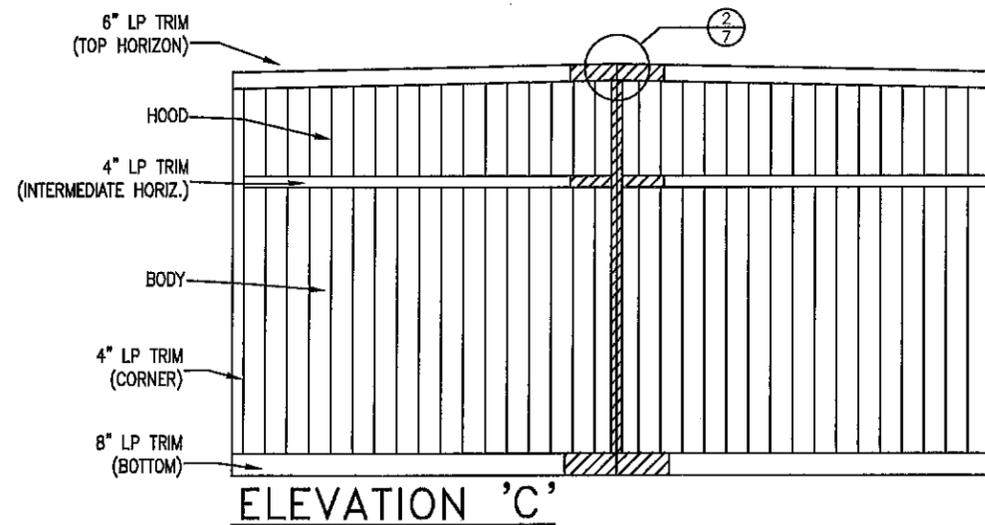
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SHEET:
7
OF
8



HATCH DENOTES SHIP LOOSE TRIM



1

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SHEET:
 8
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 8

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ, 85043
 (SEE WEBSITE FOR PHOENIXMODULAR.COM
 WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 2
 BUILDING SQ.FT. 933
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. R-2 (NON-RESIDENTIAL)
 OCCUPANCY LOAD. 22
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
 (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. ADDITIONAL HANDICAP TOILET FACILITIES PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
5. SERVICE SINK PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. DORMITORY
3. SET TYPE PAD/PIER ABOVE GRADE

DRAWING INDEX

SHEET 1: COVER SHEET
 SHEET 2: SPECIFICATIONS AND CONDITIONS
 SHEET 3: FLOOR PLAN, DOOR & WINDOW SCHEDULE
 SHEET 4: ELECTRICAL PLAN, ELECTRICAL PANEL, ELECTRICAL SCHEDULE
 SHEET 5: REFLECTED CEILING PLAN
 SHEET 6: HVAC PLAN & HVAC SCHEDULE
 SHEET 7: CROSS SECTION, MISC. DETAILS
 SHEET 8: ELEVATIONS

DEALER:
 DSMBI

PROJECT:
 DORMITORY
 24' x 40'
 PMI-3815-2440

MANUFACTURED BY:

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SHEET:
 1
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 8

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (2) EA
 Size: 11'-8"x40'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Module line Clips @ 96 in O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: TRIPLE 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
 Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. T&G Sturd-I-Floor.
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
 N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
 See HVAC Schedule for Mounting Height of the HVAC Unit.

INTERIOR WALL CONSTRUCTION:

NONE PROVIDED

ROOF CONSTRUCTION:

Roof Type: Mono (Slope to Sidewalls)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 (Roof diaphragm chord strap 'ST2215' at rafters installed on-site, see detail 2/7)
 Rafter Length: 133 1/8 in.
 Spacing: 16 in. O.C.
 Mate Beam: Steel clearspan web truss with (wood) columns at each end
 Height: 18 in.
 Length: 40 ft.
 No. of Beams: 2
 Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:
 N/A

FINISHES:**FLOOR COVERING**

Type 1: 0.080 Linoleum
 Location: (Thru-out)
 Color to be: (White Cliff)
 LINO & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: (Thru-out)
 Color to be: (Gray)
 COVE BASE & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: (Thru-out)
 Height: 8 ft.
 Color to be: (Tiki Grass Chalk).

TRIM

Wall Trim 1: Vinyl Covered trim (BOTTOM 18" HELD LOOSE)
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Mineral Fiber Tile #769 or Equal)
 Height: 7'-10"

Installed at factory, held back at module lines. (See Hatching)
 Completion of ceiling installation on-site by others; not in PM's scope.

EXTERIOR

Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
 Hood: Color: (MAJESTIC BLUE)
 Corner trim: Color: (MAJESTIC BLUE)
 Door & window trim: Color: (MAJESTIC BLUE)
 Bottom horizontal trim: Color: (MAJESTIC BLUE)
 Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
 Top horizontal trim: Color: (MAJESTIC BLUE)
 Module line trim: Color: (Match hood above intermediate horizontal trim & match body below)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)**WINDOWS:** (SEE WINDOW SCHEDULE)**CLOSEUP:**

Type: Hard
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

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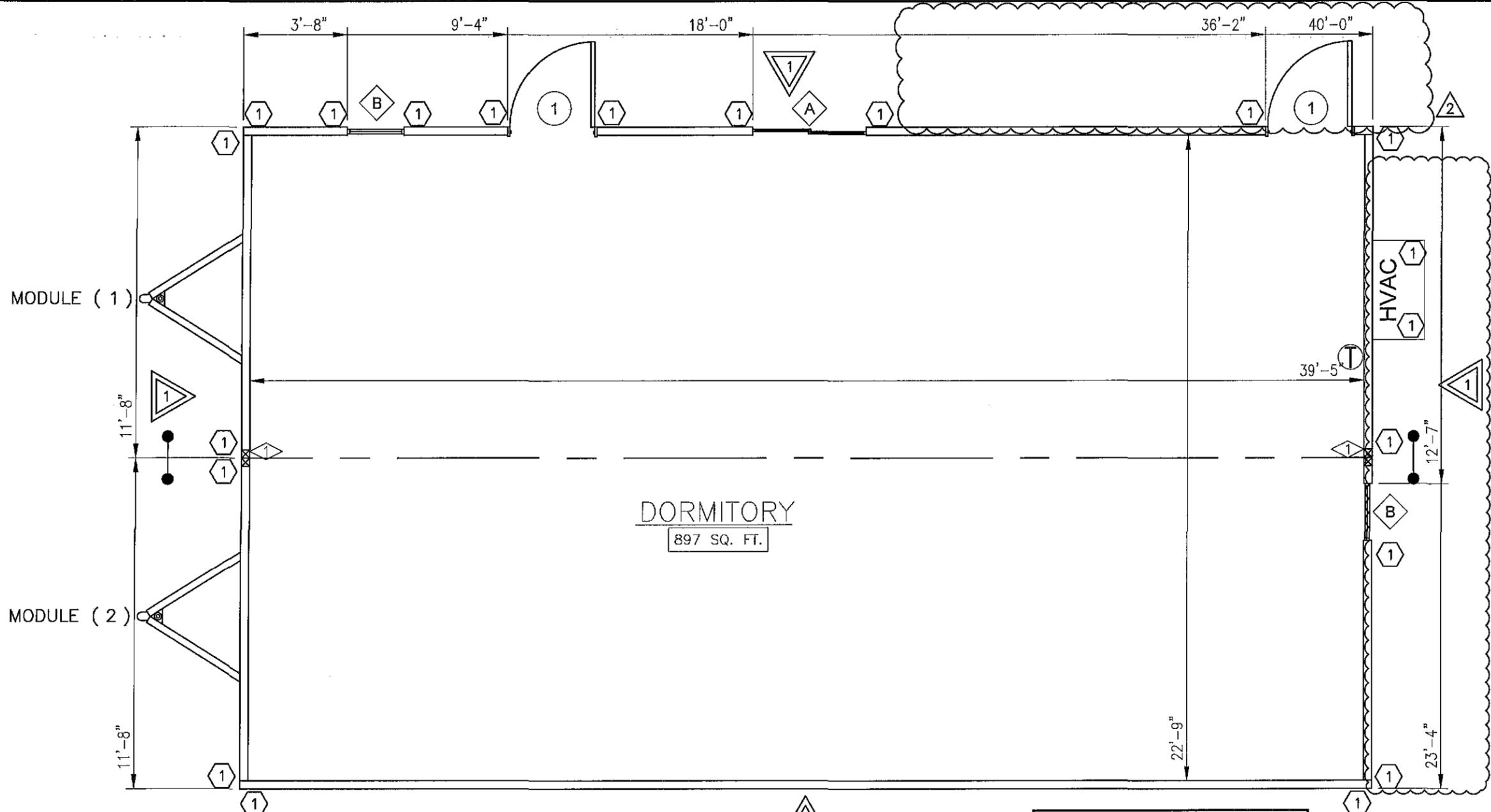
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MODULE (1)

MODULE (2)

DORMITORY
897 SQ. FT.

1 FLOOR PLAN
1/4"=1'-0" SQUARE FOOTAGE - 933 S.F.
OCCUPANCY LOAD = 22

| STRUCTURAL LEGEND | |
|-------------------|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | DIAPHRAGM CHORD TIE SIMPSON 'ST2215' (SEE DETAIL 2/7, TYP 2) |
| | (1) 3.5 in. x 3.5 in. LVL 2.0 E GRADE POST ON EA. SIDE OF MOD-LINE w/ BLOCKING PROVIDED UNDER POST. (TYP. 2 LOCATIONS) (TYP. #3 HOLDDOWN STRAP TOP & BOTT.) |

| WINDOWS: | | | | | | | | | |
|----------|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|--|--|
| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
| 1 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4040 | 48" x 48" | 0.45 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR TO BE: (WHITE SATIN C205) W/ ADA WAND | HEADER AT 81" AFF LATCH @ BOTTOM OF WINDOW |
| 2 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2040 | 24" x 48" | 0.45 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR TO BE: (WHITE SATIN C205) W/ ADA WAND | HEADER AT 81" AFF |

| DOORS: | | | | | | | | | | | | | | | |
|--------|-----|------------------------------------|-------------------------|----------------|---------|------|---------------|----------|--|-----------|-----------------|-----------------------------|-------------|----------|---|
| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | 16 GA. KD MAJESTIC BLUE | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | SEPARATE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

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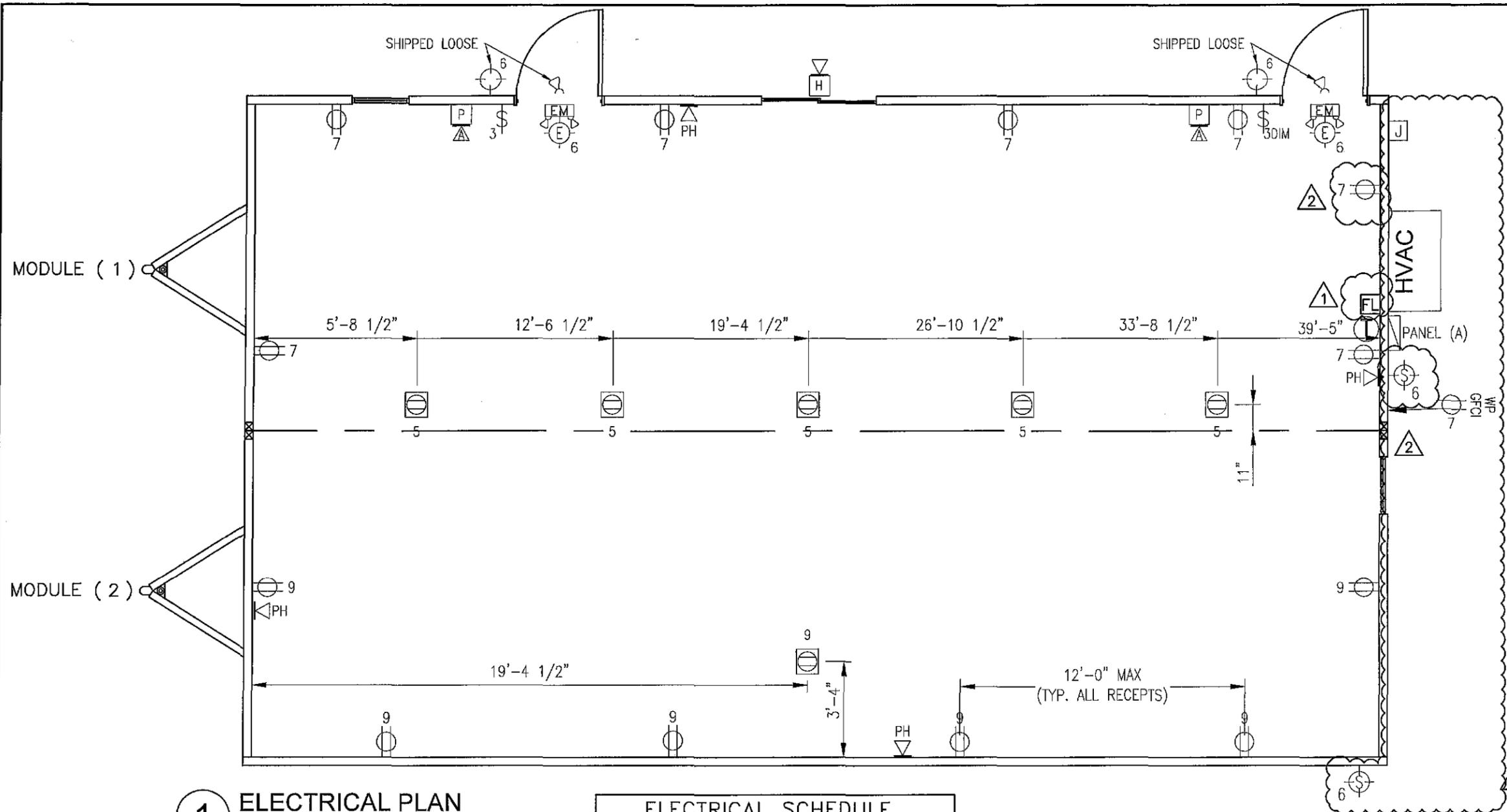
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1 ELECTRICAL PLAN
1/4"=1'-0"

| 125 AMP 120/240 1 PHASE | | | | | | |
|---|--|---------|-----|-------|-------|--------------------------------------|
| PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R) | | | | | | |
| W/S | Description | Circuit | BRK | A | B | Description |
| 8 | 10kw HEATSTRIP | 1 | 50 | 4200 | 50 | HVAC UNIT 4-TON |
| 8 | | 3 | 2 | 4200 | 2 | |
| 12 | (6) FLOOR RECEPTS (ARC FAULT BREAKER) | 5 | 20 | 900 | 20 | (8) LEDs, (4) PORCH, (2) EM/EX LITES |
| 12 | (7) STD. RECEPTS, (1) W/P GFCI (ARC FAULT BREAKER) | 7 | 20 | 426 | | Space |
| 12 | (6) RCPTS, (1) R/R RCPT (ARC FAULT BREAKER) | 9 | 20 | 1200 | | Space |
| | Space | 11 | | | | Space |
| | | | | 13226 | 11702 | Total |

ELECTRICAL CALCULATION:

GENERAL LIGHTING:
 897 SQ. FT. X 3.5 X 1.25 = 3924 watts
 20 RECEPTABLES = 3600 watts
 1 HVAC UNITS = 20860 watts

PANEL A
 TYPE OF PANEL: LOAD CENTER

28404 watts divide by 240vols = 118.4 AMPS TOTAL

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|---|-------|-----|----------------------------|
| PANEL | 125 AMP 1 PHASE 120/240V 125 AMP MAIN 60" A.F.F. TO TOP OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | (3) ARC FAULT CIRCUITS |
| ⊕ | DUPLEX RECEPTABLE W/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 13 | ON ARC FAULT CIRCUITS |
| ⊕ | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | 2 |
| ⊕ | WALKER 880-WI 1-GANG WOOD FLOOR BOX WALKER 817-PC-BLK CARPET FLANGE WALKER 828R-BLK COVER FOR 817. | BLACK | 6 | ON ARC FAULT CIRCUITS |
| ⊕ | 3 WAY SWITCH W/COVER PLATE @ 46" A.F.F. U.N.O. (N.B.S.) | IVORY | 1 | CEILING SENSOR OVERRIDE |
| ⊕ | 3 WAY WALL MNT'D DIMMING SWITCH W/ COVER PLATE @ 46" A.F.F. U.N.O. (N.B.S.) | IVORY | 1 | CEILING SENSOR OVERRIDE |
| ⊕ | CEILING MNT'D OCCUPANCY SENSOR (LEGRAND QSI200) W/ POWER PACK (PW120/277) OR EQUAL | WHITE | 1 | |
| J | 6x6x6 NEMA 3R J-BOX SEMI-RECESSED MNT'D @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊕ | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | N/A | 1 | FOR FILTER LIGHT INDICATOR |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 2 | FUTURE EXT. LIGHT |
| R | 4x4 J-BOX W/RELAY @ RAFTERS W/COVER PLATE U.N.O. | N/A | 1 | FOR FILTER RELAY |

ELECTRICAL SCHEDULE CONT.

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|--|-------|-----|--|
| ⊕ | THERMOSTAT @ 48" A.F.F. U.N.O. BRAND: HP: MULTI-STAGE 8403-060 | N/A | 1 | (PROGRAMMABLE) |
| ⊕ | 2x4-LED TUBE FLUORESCENT FIXTURE, RECESSED, DIFFUSED, (NO BRAND SPECIFIED) | N/A | 8 | |
| ⊕ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 2 | w/ PHOTOCELL ON LIGHT (2) SHIPPED LOOSE SIDEWALLS ONLY |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 66" A.F.F. | N/A | 2 | OCTAGONAL BOX FOR REMOTE HEAD SHIPPED LOOSE |
| ⊕ | 4x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO VISUAL |
| ⊕ | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE | IVORY | 2 | FOR FUTURE PULL STATION |
| ⊕ | 2x4 J-BOX @ 66" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | N/A | 1 | FOR FUTURE EXT. HORN |

NOTE:
 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE.
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
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SUNBELT MODULAR, INC.
 AMTEX 1 BUILDING 1 PHOENIX 1 N.R. STEEL 1 AMER/243

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DEALER: DSMBI

PROJECT: DORMITORY

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3815-2440

DRAWN BY: KNBS

PLOT DATE: 1/8/2018

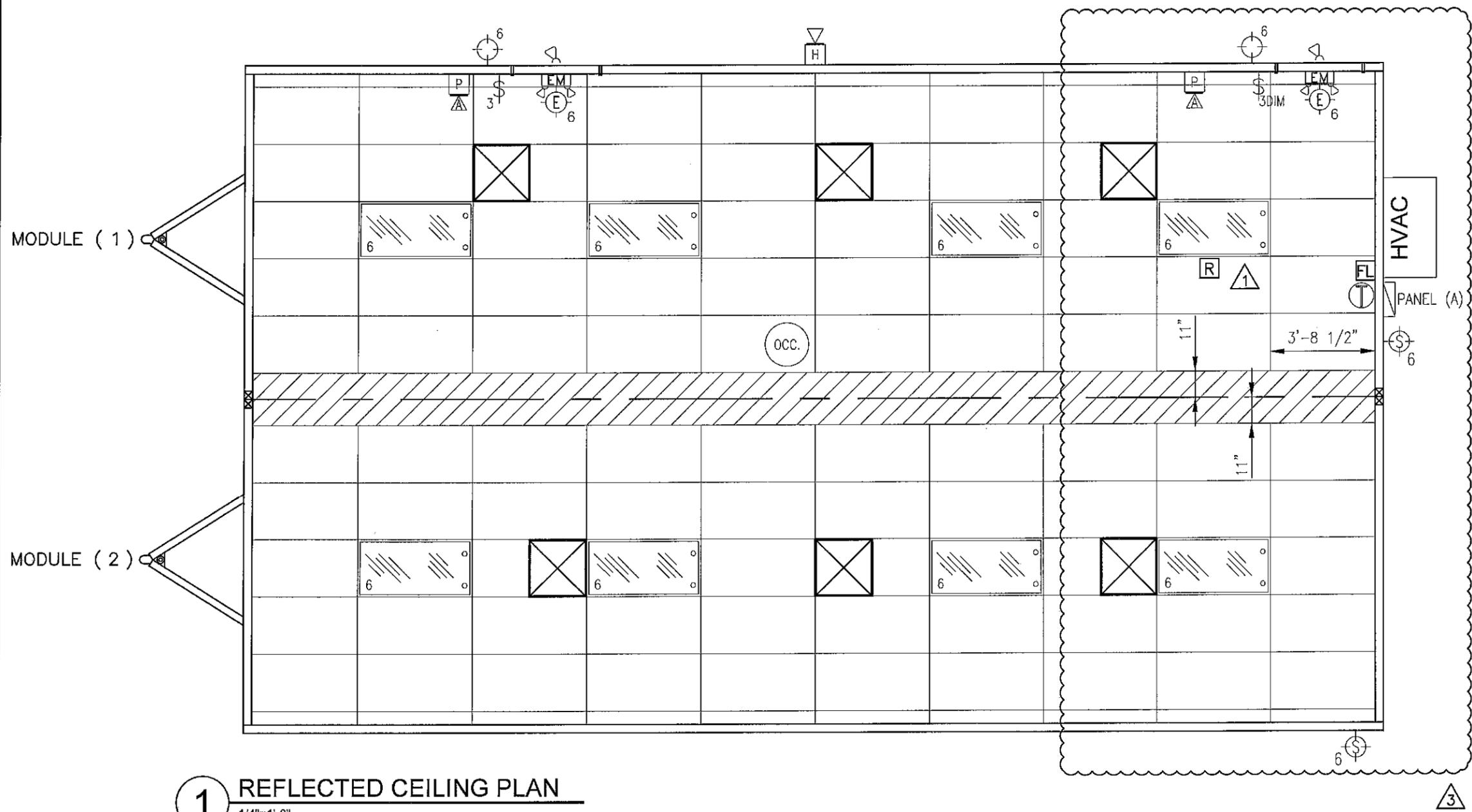
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 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ 85029
 (602) 327-4769

SHEET: **4** OF **8**



1 REFLECTED CEILING PLAN
1/4"=1'-0"

NOTE:
SMOKE DETECTOR LOCATIONS/QUANTITIES
ARE SHOWN ON THE FIRE ALARM PLANS
& ARE TO BE PROVIDED/INSTALLED BY
OTHERS ON SITE

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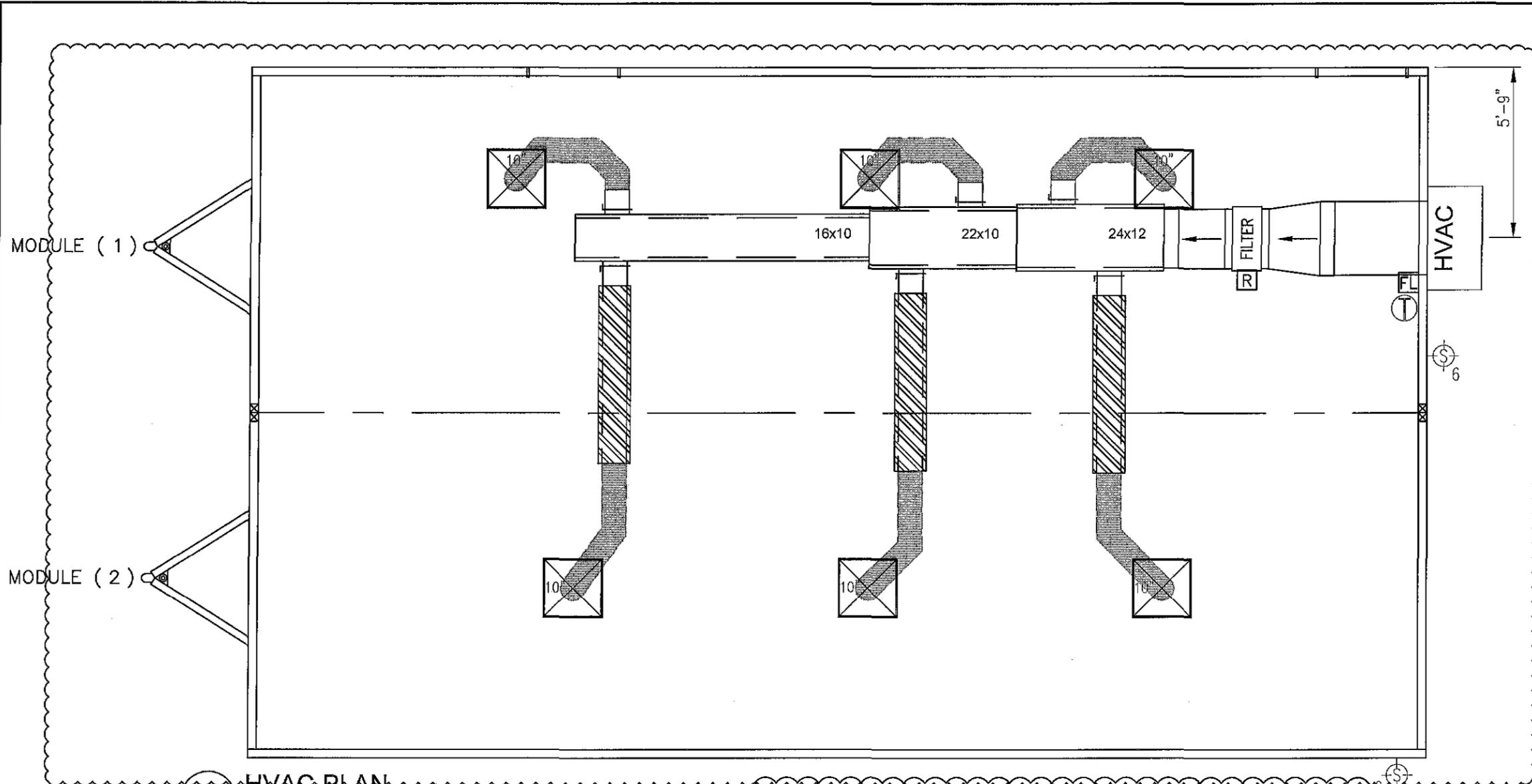
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SHEET:

5
OF
8



1 HVAC PLAN
1/4"=1'-0"

| HVAC SCHEDULE | | |
|---------------|--|------|
| SYM | DESCRIPTION | QTY |
| | 4 TON H/PW/ 10kw HEAT STRIP (F.A.D.) MODEL # (W48H2-A10) MOUNT @ 118-1/2" AFF TO TOP OF SUPPLY OPENING | 1 |
| | 30" x 10" GALV. SLEEVE x 38" LONG | 1 |
| | MERV 14 FILTER RACK (3 PIECES) SUPPLIED BY GP ASSEMBLE AND SEAL ALL SEAMS WRAPPED w/R-6 | 1 |
| | 30"x16" STAMP FACED THRU WALL RETURN AIR GRILL w/ 31" x 17" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| | 24"x12"x10"-0" FIBERGLASS DUCT. | 0.5 |
| | 22"x10"x10"-0" FIBERGLASS DUCT. | 0.5 |
| | 16"x10"x10"-0" FIBERGLASS DUCT. | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX, 10" START COLLAR. | 6 |
| | 10"Ø GALV'D DUCT (R-6 INSULATION) | 18LF |

NOTE: INSTALL HVAC DUCTS 6" MIN. DOWN FROM RAFTERS.
FLEX DUCT NOT TO EXCEED 5'

1
3

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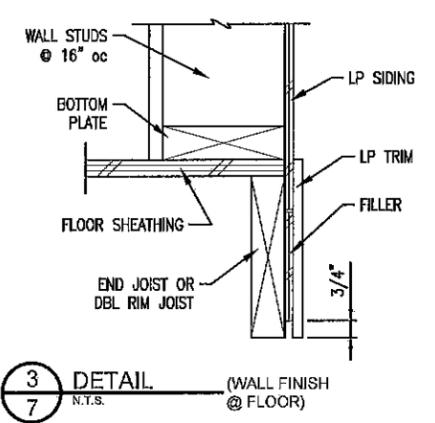
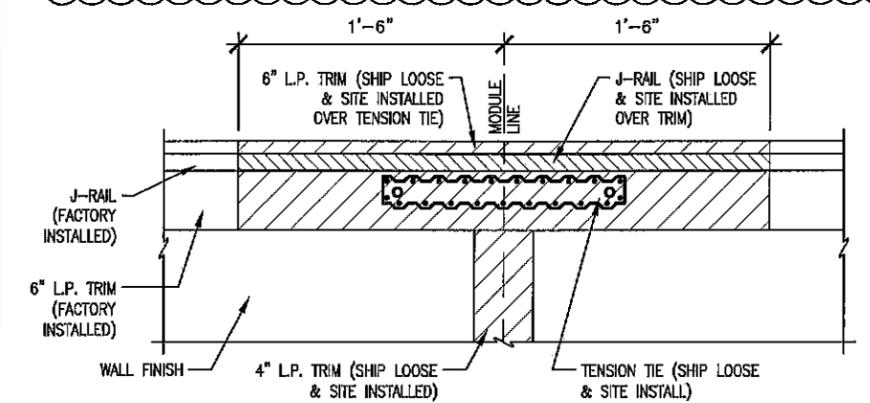
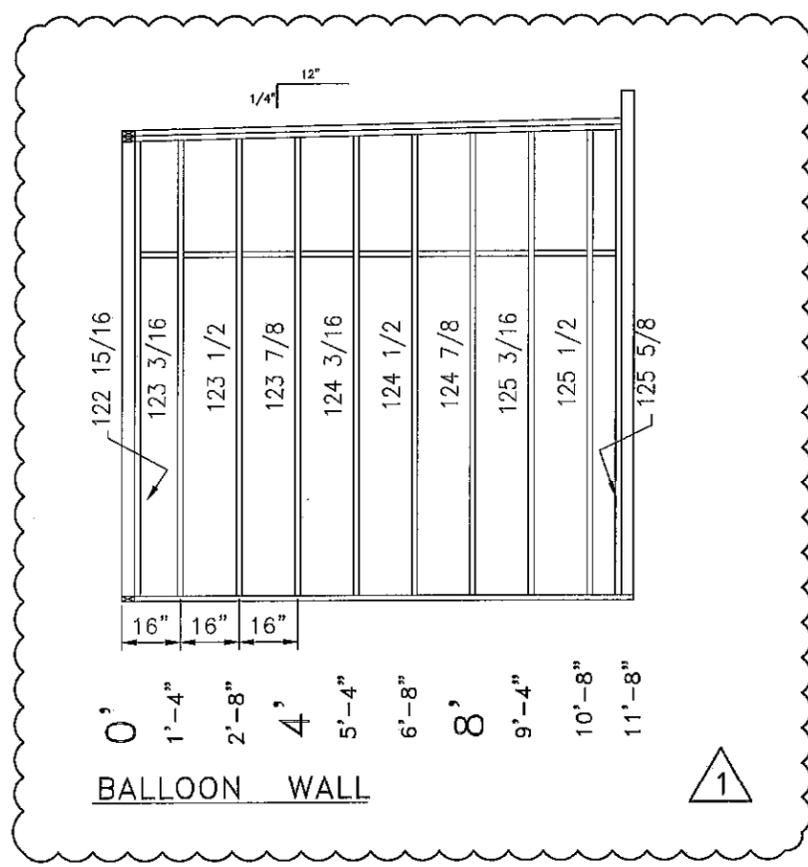
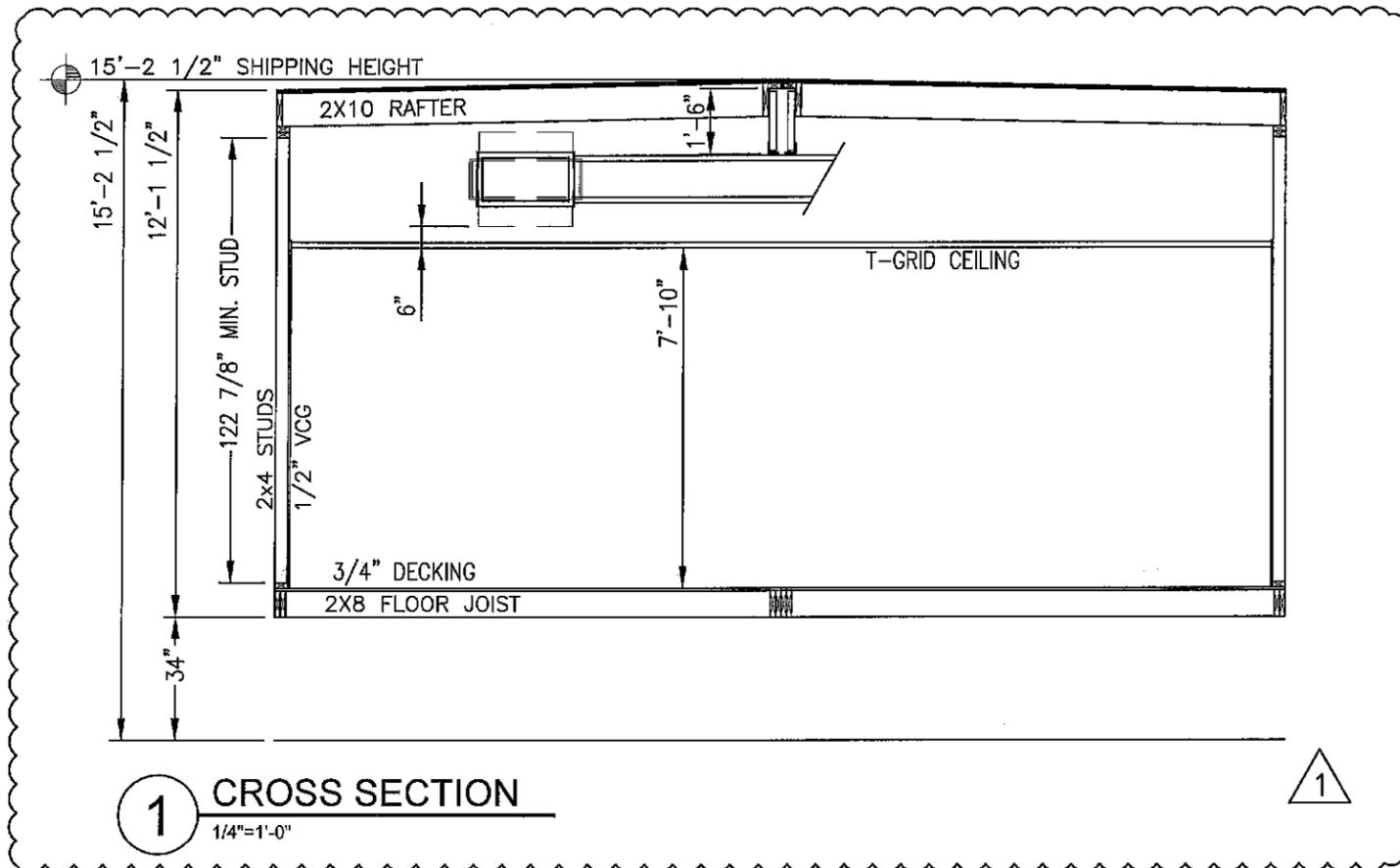
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SHEET:
6
OF
8



| STRAP TYPE | FASTENERS | VALUE (LBS) |
|------------------|----------------------------------|-------------|
| SIMPSON 'ST2215' | (20) 10d NAILS (0.146" x 1-1/2") | 991 |

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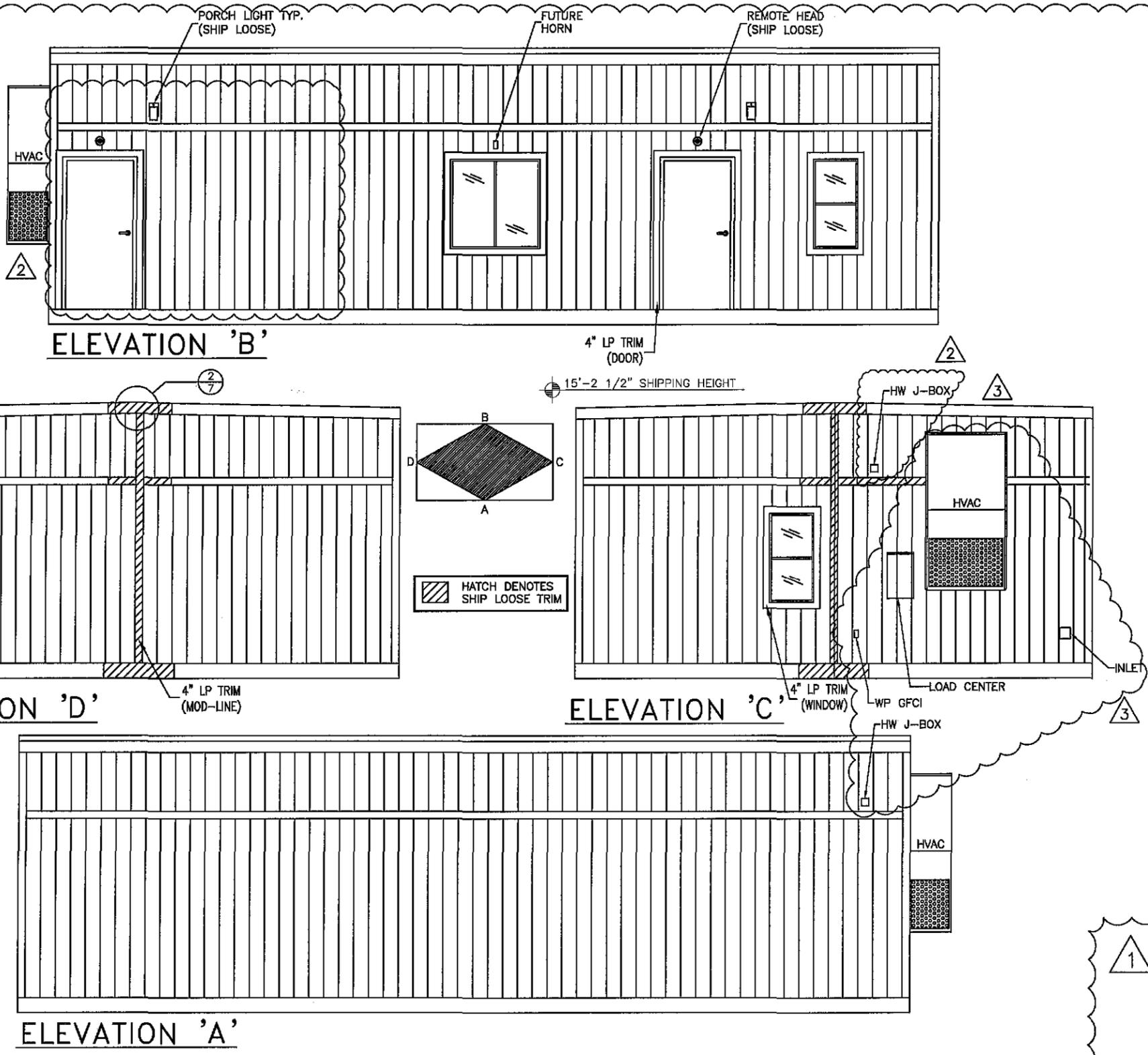
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 SUNBELT MODULAR, INC
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SHEET:
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MANUFACTURER:

MANUFACTURER & ADDRESS PHOENIX MODULAR
5301 W. MADISON ST.
PHOENIX, AZ. 85043
PHOENIXMODULAR.COM

(SEE WEBSITE FOR WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 2
BUILDING SQ.FT. 933
TYPE OF CONSTRUCTION. VB
OCCUPANCY USE GROUP. R-2 (NON-RESIDENTIAL)
OCCUPANCY LOAD. 22
FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
(100 psf. @ corridor)
ROOF LIVE LOAD. 20 psf.
ROOF SNOW LOAD. 15 psf.
WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
SEISMIC Ss=3.730, S1=1.389
Site Class 'D'
Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
CLIMATE ZONE. 3

NAME AND DATE OF CODES:
CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
2016 CA Energy, & CBC Chapter 11B Accessibility

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
INSTALLED AT. FACTORY
CONTRACTED BY. DEALER
INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107

2. EXPLANATION OF BUILDING USE. DORMITORY

3. SET TYPE PAD/PIER ABOVE GRADE

DRAWING INDEX

SHEET 1: COVER SHEET
SHEET 2: SPECIFICATIONS AND CONDITIONS
SHEET 3: FLOOR PLAN, DOOR & WINDOW SCHEDULE
SHEET 4: ELECTRICAL PLAN, ELECTRICAL PANEL,
ELECTRICAL SCHEDULE
SHEET 5: REFLECTED CEILING PLAN
SHEET 6: HVAC PLAN & HVAC SCHEDULE
SHEET 7: CROSS SECTION, MISC. DETAILS
SHEET 8: ELEVATIONS

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. ADDITIONAL HANDICAP TOILET FACILITIES PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
5. SERVICE SINK PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

DEALER:

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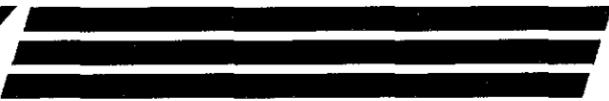
PROJECT:

DORMITORY

24' x 40'

PMI-3816-2440

MANUFACTURED BY:

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MODULAR

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PH 602-447-6460 FAX 602-447-6476

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STATES:
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SERIAL NUMBERS:
PMI-3816-2440

DRAWN BY:
VB/BS

PLOT DATE:
3/28/2018

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R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. G, #C206
PHOENIX, AZ. 85029
(602) 327-4769

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (2) EA
 Size: 11'-8" x 40'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Module line Clips @ 96 in O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: Triple 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
 Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. T & G Sturd-I-Floor
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
 Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-15 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
 See HVAC Schedule for Mounting Height of the HVAC Unit.

INTERIOR WALL CONSTRUCTION:

NONE PROVIDED

ROOF CONSTRUCTION:

Roof Type: Mono (Slope to Sidewalls)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 (Roof diaphragm chord strap 'ST2215' at rafters installed on-site, see detail 2/7)
 Rafter Length: 133 1/8 in.
 Spacing: 16 in. O.C.
 Mate Beam: Steel clearspan web truss with (wood) columns at each end
 Height: 18 in.
 Length: 40 ft.
 No. of Beams: 2
 Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:
 N/A

FINISHES:**FLOOR COVERING**

Type 1: 0.080 Linoleum
 Location: (Thru-out)
 Color to be: (White Cliff)
 LINO & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: (Thru-out)
 Color to be: (Gray)
 COVE BASE & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: (Thru-out)
 Height: 8 ft.
 Color to be: (Tiki Grass Chalk).

TRIM

Wall Trim 1: Vinyl Covered trim (BOTTOM 18" HELD LOOSE)
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Mineral Fiber Tile #769 or Equal)
 Height: 7'-10"

Installed at factory, held back at module lines. (See Hatching)
 Completion of ceiling installation on-site by others; not in PMI's scope.

EXTERIOR

Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
 Hood: Color: (MAJESTIC BLUE)
 Corner trim: Color: (MAJESTIC BLUE)
 Door & window trim: Color: (MAJESTIC BLUE)
 Bottom horizontal trim: Color: (MAJESTIC BLUE)
 Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
 Top horizontal trim: Color: (MAJESTIC BLUE)
 Module line trim: Color: (Match hood above intermediate horizontal trim & match body below)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)**WINDOWS:** (SEE WINDOW SCHEDULE)**CLOSEUP:**

Type: Hard
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

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PROJECT:
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STATES:
 CA

SERIAL NUMBERS:
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DRAWN BY:
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PLOT DATE:
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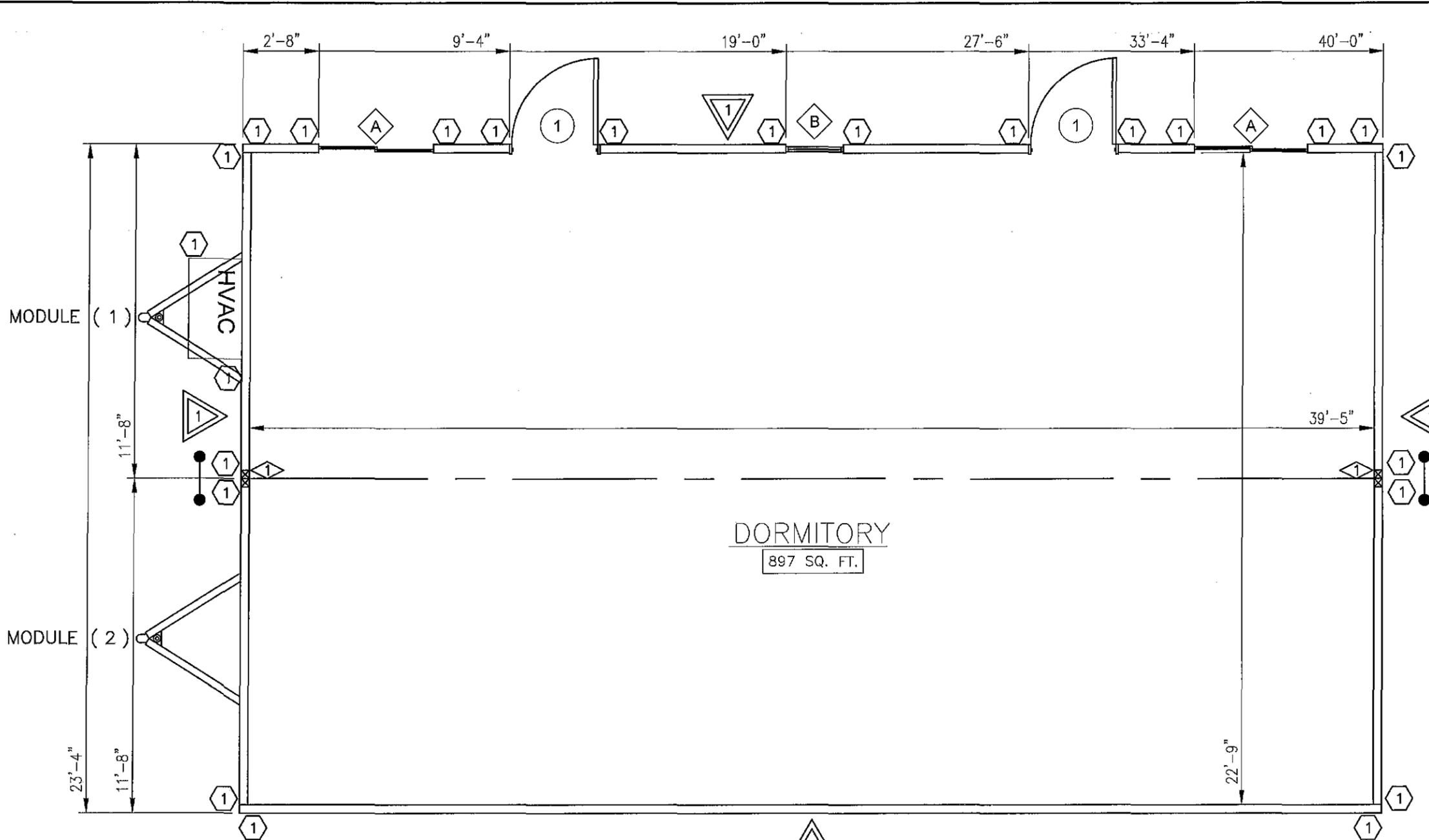
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SHEET:

2
 OF
 8



| STRUCTURAL LEGEND | |
|-------------------|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | DIAPHRAGM CHORD TIE SIMPSON 'ST2215' (SEE DETAIL 2/7, TYP 2) |
| | (1) 3.5 in. x 3.5 in. LVL 2.0 E GRADE POST ON EA. SIDE OF MOD-LINE w/ BLOCKING PROVIDED UNDER POST. (TYP. 2 LOCATIONS) (TYP. #3 HOLDDOWN STRAP TOP & BOTL.) |

1 FLOOR PLAN
 1/4"=1'-0" SQUARE FOOTAGE - 933 S.F.
 OCCUPANCY LOAD = 22

PHOENIX MODULAR
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| DOORS: | | | | | | | | | | | | | | | |
|--------|-----|------------------------------------|-------------------------|----------------|---------|------|---------------|----------|--|-----------|-----------------|-----------------------------|-------------|----------|---|
| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | 16 GA. HD MAJESTIC BLUE | 47/16" | NONE | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | SEPARATE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

| WINDOWS: | | | | | | | | | |
|----------|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|---|--|
| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
| 2 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4040 | 48" x 48" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM COLOR TO BE: (C205 WHITE SATIN) W/ ADA WAND | HEADER AT 81" AFF LATCH @ BOTTOM OF WINDOW |
| 1 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2940 | 24" x 48" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM COLOR TO BE: (C205 WHITE SATIN) W/ ADA WAND | HEADER AT 81" AFF |

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SHEET: **3** OF **8**

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

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 DSMBI

PROJECT:
 DORMITORY

STATES:
 CA

SERIAL NUMBERS:
 PMI-3816-2440

DRAWN BY:
 VB/BS

PLOT DATE:
 3/28/2018

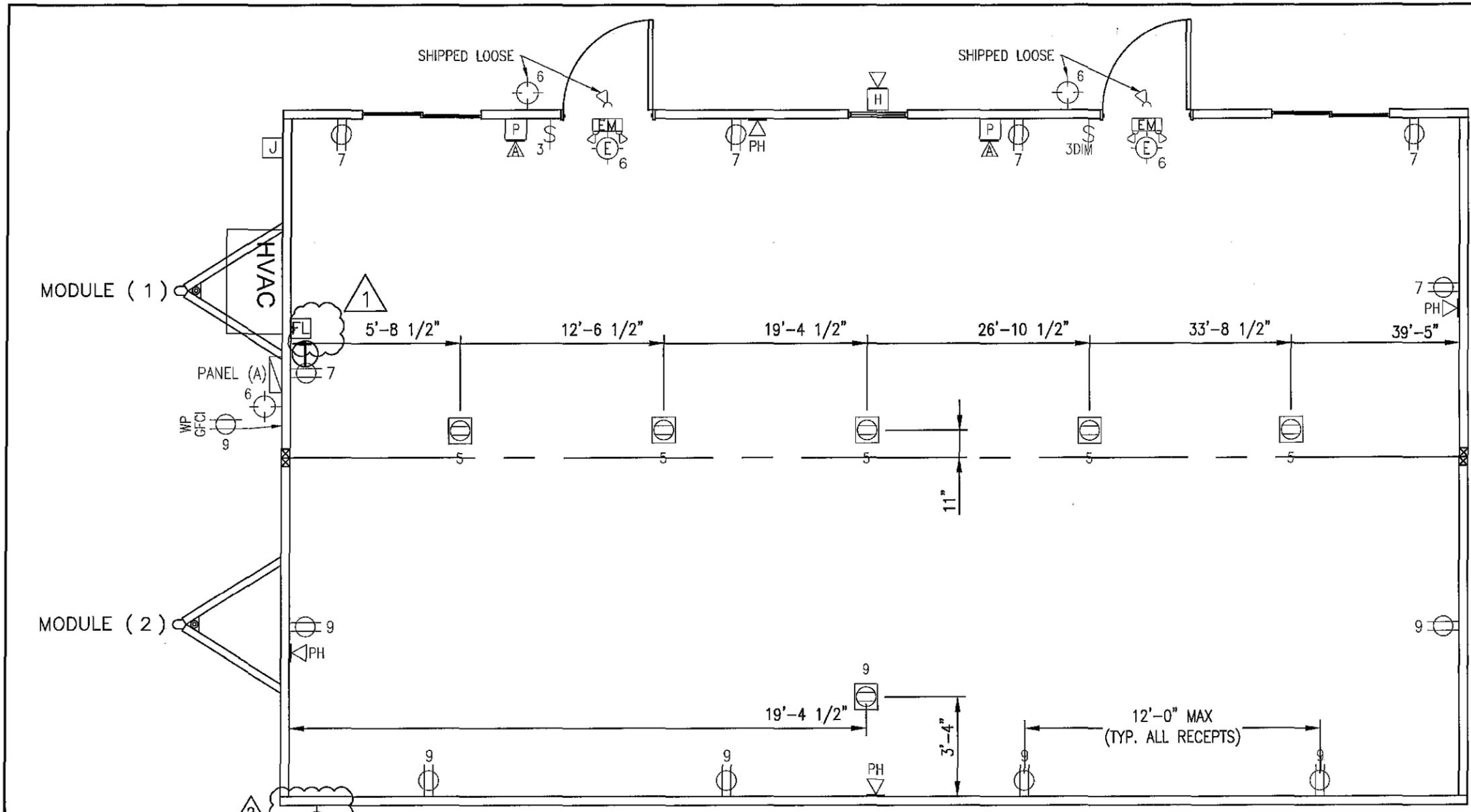
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 #1 2/8/2018 PR#1
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SHEET:
 4
 OF
 8



1 ELECTRICAL PLAN
 1/4"=1'-0"

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|--|-------|-----|----------------------------|
| PANEL | 125 AMP 1 PHASE 120/240V 125 AMP MAIN, 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | (3) ARC FAULT CIRCUITS |
| ⊕ | DUPLEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 12 | ON ARC FAULT CIRCUITS |
| ⊕ | GFCI DUPLEX ROPT. w/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | |
| ⊕ | WALKER 880-W1 1-GANG WOOD FLOOR BOX | BLACK | 6 | ON ARC FAULT CIRCUITS |
| ⊕ | WALKER 817-POC-BLK CARPET FLANGE | | | |
| ⊕ | WALKER 828PR-BLK COVER FOR 817. | | | |
| ⊕ | 3 WAY SWITCH w/COVER PLATE @ 48" A.F.F. U.N.O. (N.B.S.) | IVORY | 1 | CEILING SENSOR OVERRIDE |
| ⊕ | 3 WAY WALL MNT'D DIMMING SWITCH w/ COVER PLATE @ 48" A.F.F. U.N.O. (N.B.S.) | IVORY | 1 | CEILING SENSOR OVERRIDE |
| ⊕ | CEILING MNT'D OCCUPANCY SENSOR (LEGRAND CSI200) w/ POWER PACK (PW120/277) OR EQUAL | WHITE | 1 | |
| ⊕ | 6x6xNEMA JR J-BOX SEMI-RECESSED MNT'D @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊕ | 2x4 J-BOX @ 48" A.F.F. w/ 3/4" CONDUIT STUBBED w/ T-STAT WIRE TO J-BOX w/ 6 PAGES w/COVER PLATE | N/A | 1 | FOR FILTER LIGHT INDICATOR |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY) | N/A | 1 | FUTURE EXT. LIGHT |
| ⊕ | 4x4 J-BOX w/RELAY @ RAFTERS w/COVER PLATE U.N.O. | N/A | 1 | FOR FILTER RELAY |

ELECTRICAL SCHEDULE CONT.

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|---------|---|-------|-----|--|
| ⊕ | THERMOSTAT @ 48" A.F.F. U.N.O. BRAND: HP; BARD MULTI-STAGE 8403-060 | N/A | 1 | (PROGRAMMABLE) |
| ⊕ | 2x4-LED TUBE FLUORESCENT FIXTURE, RECESSED, DIFFUSED, (NO BRAND SPECIFIED) | N/A | 8 | |
| ⊕ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 3 | w/ PHOTOCELL ON LIGHT (2) SHIPPED LOOSE SIDEWALLS ONLY |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXT LIGHT MNT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 88" A.F.F. | N/A | 2 | OCTAGONAL BOX FOR REMOTE HEAD SHIPPED LOOSE |
| ⊕ | 4x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO VISUAL |
| ⊕ | 2x4 J-BOX @ 48" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/COVER PLATE | IVORY | 2 | FOR FUTURE PULL STATION |
| ⊕ | 2x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/COVER PLATE U.N.O. | N/A | 1 | FOR FUTURE EXT. HORN |
| RACEWAY | MC/FLEX | | | |

NOTE:
 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE)

125 AMP 120/240 1 PHASE
 PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R)

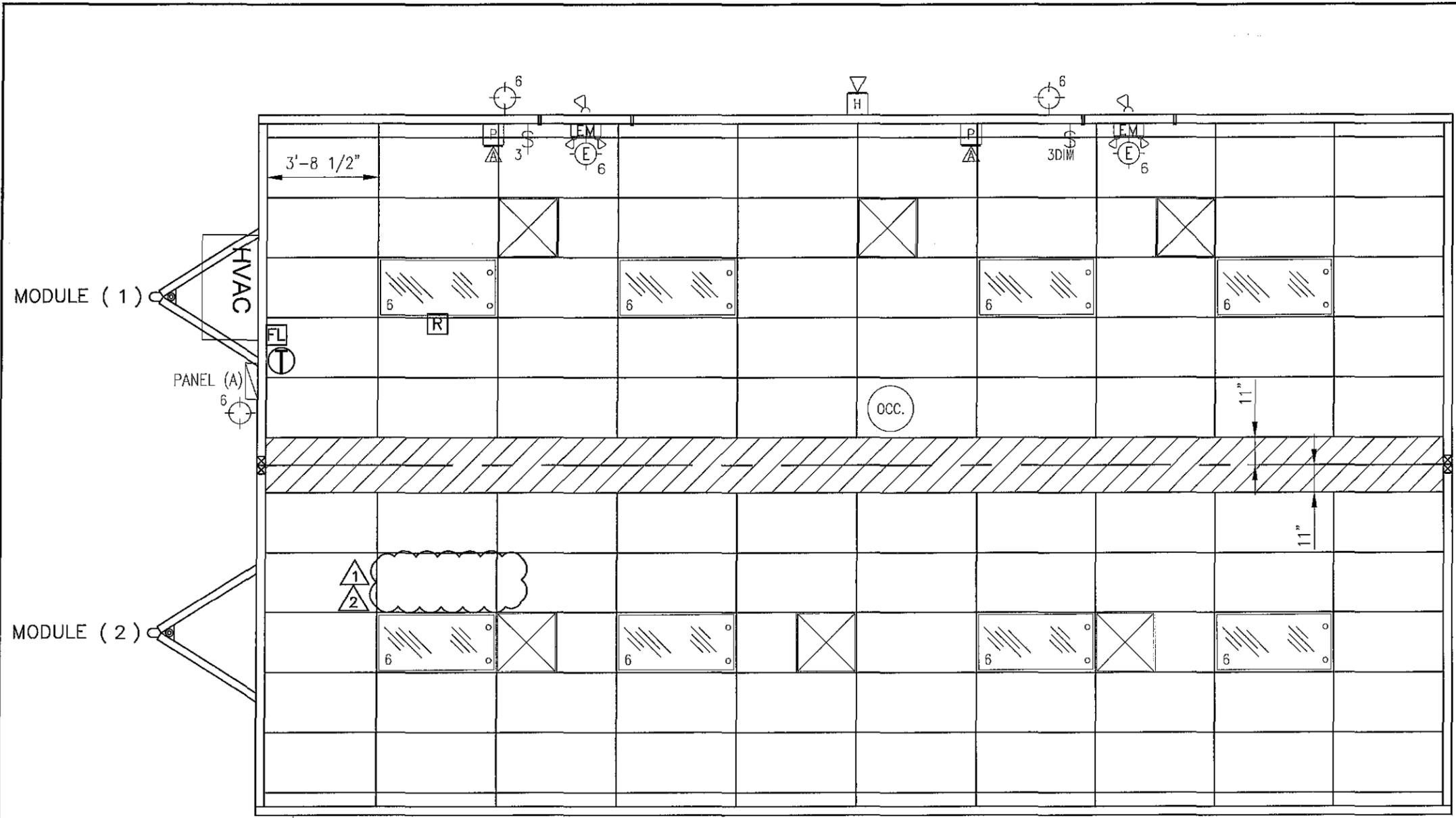
| Wts | Description | Circuit | BRK | A | B | BRK | Circuit | Description | Wts |
|-----|---|---------|-----|-------|-------|-------|---------|-------------------------------------|-----|
| 8 | 10kw HEATS TRIP | 1 | 60 | 4200 | 60 | 2 | | HVAC UNIT 4-TON | 6 |
| 6 | | 3 | 2 | 4200 | 60 | 4 | | | 6 |
| 12 | (6) FLOOR RECEPTS (ARC FAULT BREAKER) | 6 | 20 | 800 | 20 | 6 | | (8) LEDs (4) PORCH, (2) EM/EX LITES | 12 |
| 12 | (6) STD. RECEPTS (ARC FAULT BREAKER) | 7 | 20 | 1000 | 20 | 8 | | SPRINKLER BOX | 12 |
| 12 | (6) RCPTS, (1) WP GFCI, (1) FLR. RCPT (ARC FAULT BREAKER) | 9 | 20 | 1440 | | 10 | | SPACE | |
| | SPACE | 11 | | | | 12 | | SPACE | |
| | | | | 13208 | 12320 | Total | | | |

ELECTRICAL CALCULATION:
 GENERAL LIGHTING:
 897 SQ. FT. x 3.5 x 1.25 = 3924 watts
 19 RECEPTACLES = 3420 watts
 1 HVAC UNIT = 20880 watts
 1 SPRINKLER BOX = 800 watts

TYPE OF PANEL: LOAD CENTER

PANEL A

29024 watts divide by 240volts = 120.9 AMPS TOTAL



1 REFLECTED CEILING PLAN
1/4"=1'-0"

NOTE:
SMOKE DETECTOR LOCATIONS/QUANTITIES
ARE SHOWN ON THE FIRE ALARM PLANS
& ARE TO BE PROVIDED/INSTALLED BY
OTHERS ON SITE

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PROJECT:
DORMITORY

STATES:
CA

SERIAL NUMBERS:
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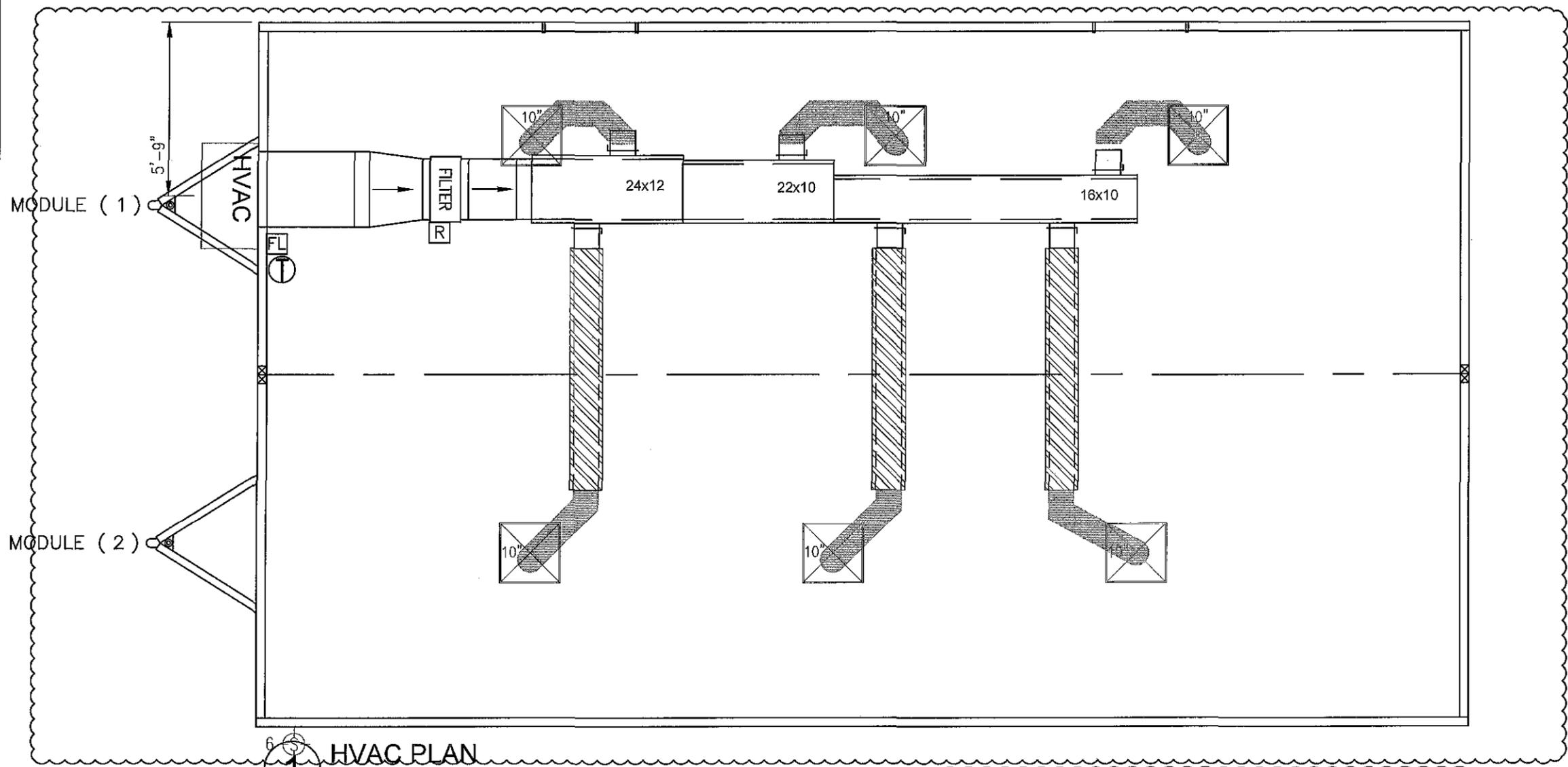
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MAR 28 2018

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PHOENIX, AZ. 85029
(602) 327-4769

SHEET:
5
OF
8



6
HVAC PLAN
1/4"=1'-0"

| HVAC SCHEDULE | | |
|---------------|--|------|
| SYM | DESCRIPTION | QTY |
| | 4 TON H/PW/ 10kw HEAT STRIP (F.A.D.) MODEL # (W48H2-A1Q) MOUNT @ 118-1/2" AFF TO TOP OF SUPPLY OPENING | 1 |
| | 30" x 10" GALV. SLEEVE x 38" LONG | 1 |
| | MERV 14 FILTER RACK (3 PIECES) SUPPLIED BY GP ASSEMBLE AND SEAL ALL SEAMS WRAPPED w/R-6 | 1 |
| | 30"x16" STAMP FACED THRU WALL RETURN AIR GRILL w/ 31" x 17" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| | 24"x12"x10'-0" FIBERGLASS DUCT. | 0.5 |
| | 22"x10"x10'-0" FIBERGLASS DUCT. | 0.5 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 6 |
| | 10% GALV'D DUCT (R-6 INSULATION) | 24LF |

NOTE: INSTALL HVAC DUCTS 6" MIN. DOWN FROM RAFTERS.
FLEX DUCT NOT TO EXCEED 5'

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SUNBELT MODULAR, INC
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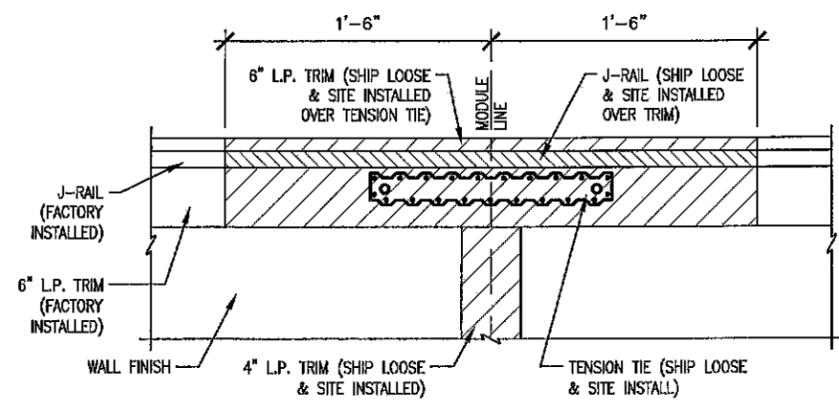
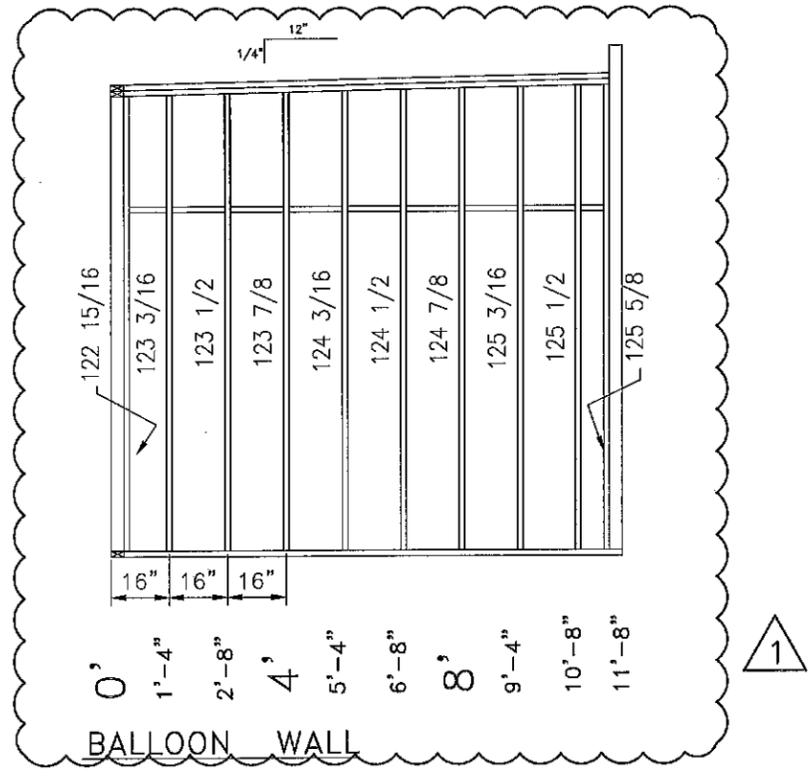
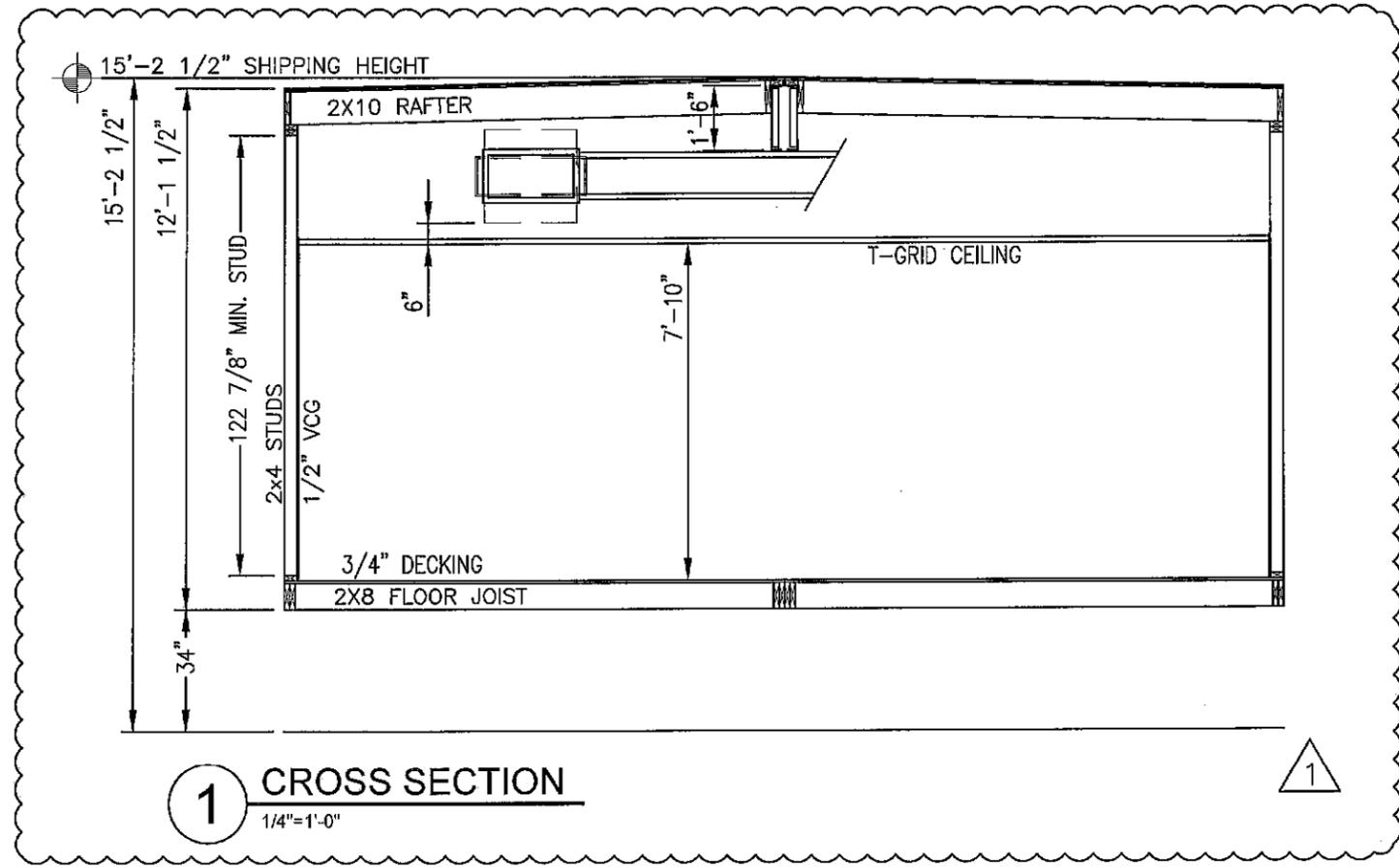
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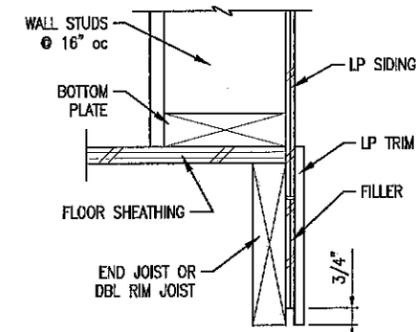
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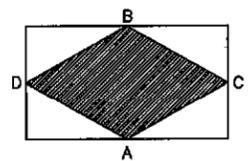
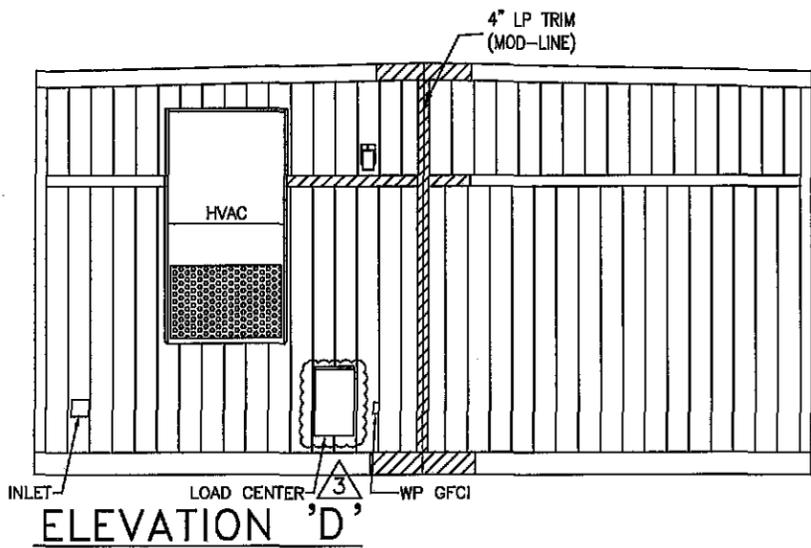
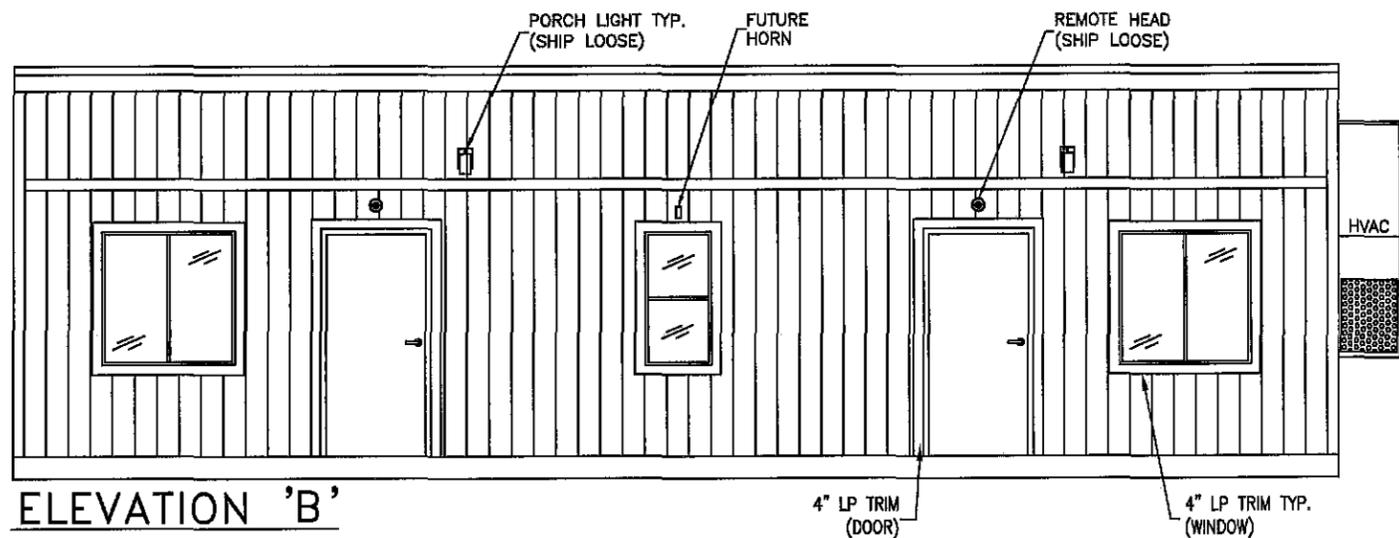
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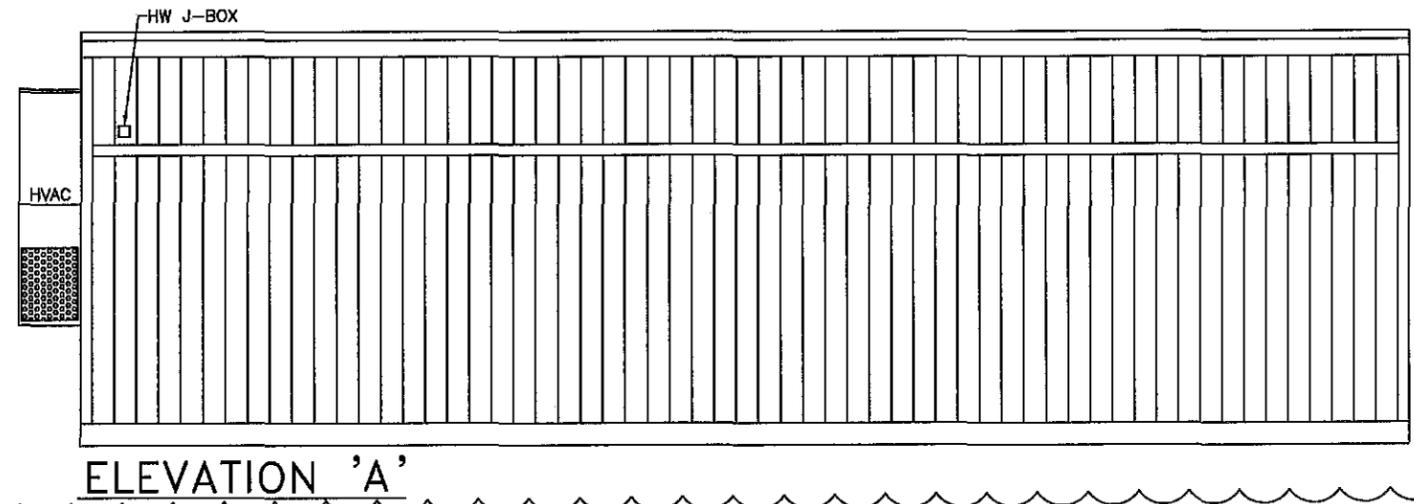
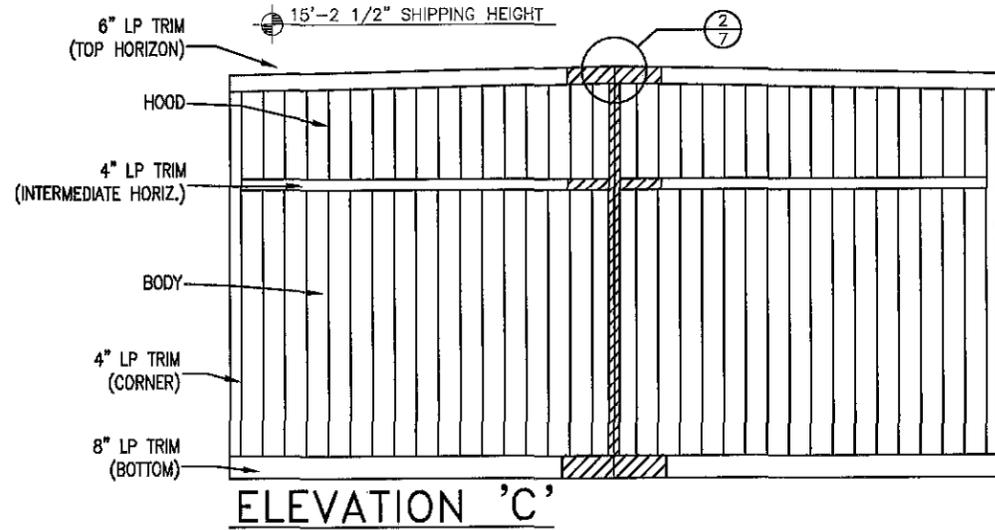
| STRAP TYPE | FASTENERS | VALUE (LBS) |
|------------------|-------------------------------------|-------------|
| SIMPSON 'ST2215' | (20) 10d NAILS (0.148" x 1-1/2") | 991 |



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HATCH DENOTES SHIP LOOSE TRIM



1

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PROJECT: DORMITORY

STATES: CA

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DRAWN BY: VB/BS

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 PHOENIX, AZ 85029
 (602) 327-4769

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SHEET:
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 8

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 PHOENIXMODULAR.COM
 (SEE WEBSITE FOR WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 2
 BUILDING SQ.FT. 933
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. A-2
 OCCUPANCY LOAD. 63
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. ADDITIONAL HANDICAP TOILET FACILITIES PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
5. SERVICE SINK PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. DINING
3. SET TYPE PAD/PIER ABOVE GRADE

DRAWING INDEX

SHEET 1: COVER SHEET
 SHEET 2: SPECIFICATIONS AND CONDITIONS
 SHEET 3: FLOOR PLAN, PLUMBING SCHEDULE, DOORS & WINDOW SCHEDULE
 SHEET 4: ELECTRICAL PLAN, ELECTRICAL SCHEDULE
 SHEET 5: REFLECTED CEILING PLAN
 SHEET 6: HVAC PLAN, HVAC SCHEDULE
 SHEET 7: CROSS SECTION, MISC. DETAILS, ELECTRICAL PANEL
 SHEET 8: ELEVATIONS
 SHEET 9: PLUMBING ISO, CABINET DETAILS

DEALER:
 DSMBI

PROJECT:
 DINING ROOM
 24'x40'
 PMI-3817-2440

MANUFACTURED BY:

PHOENIX MODULAR

5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476

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PROJECT:
 DINING ROOM

STATES:
 CALIFORNIA

SERIAL NUMBERS:
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DRAWN BY:
 KNBS

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SHEET:
 1
 OF
 9

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (2) EA
 Size: 11'-8"x40'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in O.C.
 Module line Clips @ 96 in O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: TRIPLE 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
 Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. T&G Sturd-I-Floor.
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
 N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
 See HVAC Schedule for Mounting Height of the HVAC Unit.

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
 Top plate: Single 2X4 #2 HF equal or better (Double as needed)
 Bottom plate: Single 2X4 #2 HF or better bottom plate
 Stud length: 92-5/8 in. (Ceiling HL)

Insulation: N/A 

Additional Interior Wall Items Included in Quoted Price:
 N/A

ROOF CONSTRUCTION:

Roof Type: Mono (Slope to Sidewalls)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 (Roof diaphragm chord strap 'ST2215' at rafters installed on-site, see detail 3/7)
 Rafter Length: 133 1/8 in.
 Spacing: 16 in. O.C.
 Mate Beam: Steel clearspan web truss with (wood) columns at each end
 Height: 18 in.
 Length: 40 ft.
 No. of Beams: 2
 Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:
 N/A

FINISHES:**FLOOR COVERING**

Type 1: 0.080 Linoleum
 Location: (Thru-out)
 Color to be: (White Cliff)
 INSTALLED IN PANTRY ONLY
 REMAINDER LINO & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: (Thru-out)
 Color to be: (Gray)
 INSTALLED IN PANTRY ONLY
 REMAINDER COVE BASE & ALL INSTALLATION MATERIAL TO BE SHIPPED LOOSE & INSTALLED ON SITE BY OTHERS

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: (Thru-out)
 Height: 8 ft.
 Color to be: (Tiki Grass Chalk)

TRIM

Wall Trim 1: Vinyl Covered trim (Bottom 18" Held Loose)
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Mineral Fiber Tile #769 or Equal)
 Height: 7'-10"
 Installed at factory, held back at module lines. (See Hatching)
 Completion of ceiling installation on-site by others; not in PM's scope.

EXTERIOR

Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
 Hood: Color: (MAJESTIC BLUE)
 Corner trim: Color: (MAJESTIC BLUE)
 Door & window trim: Color: (MAJESTIC BLUE)
 Bottom horizontal trim: Color: (MAJESTIC BLUE)
 Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
 Top horizontal trim: Color: (MAJESTIC BLUE)
 Module line trim: Color: (Match hood above intermediate horizontal trim & match body below)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)**WINDOWS:** (SEE WINDOW SCHEDULE)**CLOSEUP:**

Type: Hard
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: (16 LF) BASE, LAMINATE, COLOR: (FROSTY WHITE)
 (8 LF) UPPER, LAMINATE, COLOR: (FROSTY WHITE)
 Counters: (28 LF) SOLID SURFACE, EASED 1/8", COLOR: (FLINT)
 Shelving: None provided

PHOENIX MODULAR

530 W. MADISON ST., PHOENIX, AZ 85003
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DEALER:
 DSMBI

PROJECT:
 DINING ROOM

STATES:
 CALIFORNIA

SERIAL NUMBERS:
 PMI-3817-2440

DRAWN BY:
 KNBS

PLOT DATE:
 3/28/2018

REV # / DATE:
 #1 2/8/2018 PR#1
 #2 3/14/2018 PR#3&4

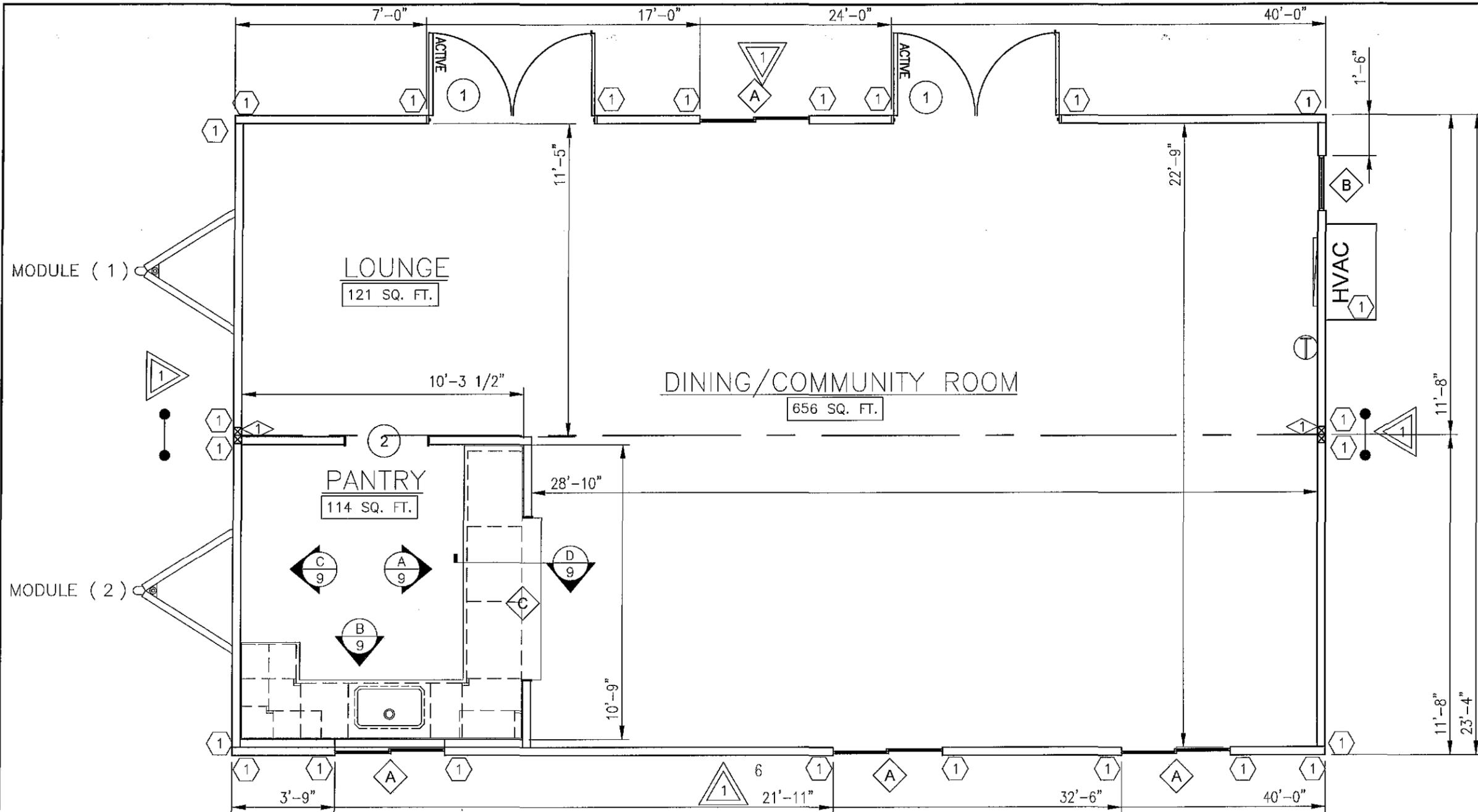
R. MARK STEELE, P.E.
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 PHOENIX, AZ. 85029
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1 FLOOR PLAN
 1/4"=1'-0" SQUARE FOOTAGE - 933 S.F.
 OCCUPANCY LOAD = 63

WINDOWS:

| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
|-----|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|--|--|
| 4 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4030 | 48" x 36" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR TO BE: (WHITE SATIN) W/ADA WAND | HEADER AT 81" AFF LATCH @ BOTTOM OF WINDOW |
| 1 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2040 | 24" x 48" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR TO BE: (WHITE SATIN) W/ADA WAND | HEADER AT 81" AFF |
| 1 | C | PASS THROUGH | N/A | 6040 | 72" x 48 1/2" | N/A | N/A | N/A | HEADER AT 81" AFF |

DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|------------------------------------|-------------------------|----------------|---------|------|---------------|----------|---|---|----------|--|-------------|--------|---|
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. MAJESTIC BLUE | 4 7/16" | N/A | 6068 | 74 3/4" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC (ACTIVE) STORM CHAIN (INACTIVE) | NONE | ACTIVE: PANIC LEVER, TELL GRADE 2 INACTIVE: ASTRIGAL W/FLUSH BOLTS | NONE | ALIKE | DRIP CAP, (4) STD & (2) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |
| 1 | 2 | FINISHED OPENING | VCG | 4 1/2" | N/A | 3068 | 38" x 81" | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

PLUMBING SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|--------|--|-----|
| | 30 1/2" x 18 1/2" STAINLESS STEEL UNDER-MOUNT SINGLE BOWL SINK W/ FAUCET & 1/2 HP COMMERCIAL GARBAGE DISPOSAL. SINK BRAND: ELKAY ELUMAD281665 FAUCET BRAND: CHICAGO FAUCETS 786-GR2E35V317XKAB GARBAGE DISPOSAL BRAND: ISE-SS-80 | 1 |
| | POINT OF USE INSTANT WATER HEATER. BRAND: EEMAX SP3512 | 1 |

NOTE: 1. PROVIDE 3/4" INLINE STRAINER

STRUCTURAL LEGEND

| | |
|--|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | DIAPHRAGM CHORD TIE SIMPSON 'S12215' (SEE DETAIL 3/7, TYP 2) |
| | (1) 3.5 in. x 3.5 in. 15L 2.0 E GRADE POST ON EA. SIDE OF MOD-LINE w/ BLOCKING PROVIDED UNDER POST. (TYP. 2 LOCATIONS) (TYP. #3 HOLDDOWN STRAP @ BOT.) |

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DEALER: DSBMI

PROJECT: DINING ROOM

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3817-2440

DRAWN BY: KN/BS

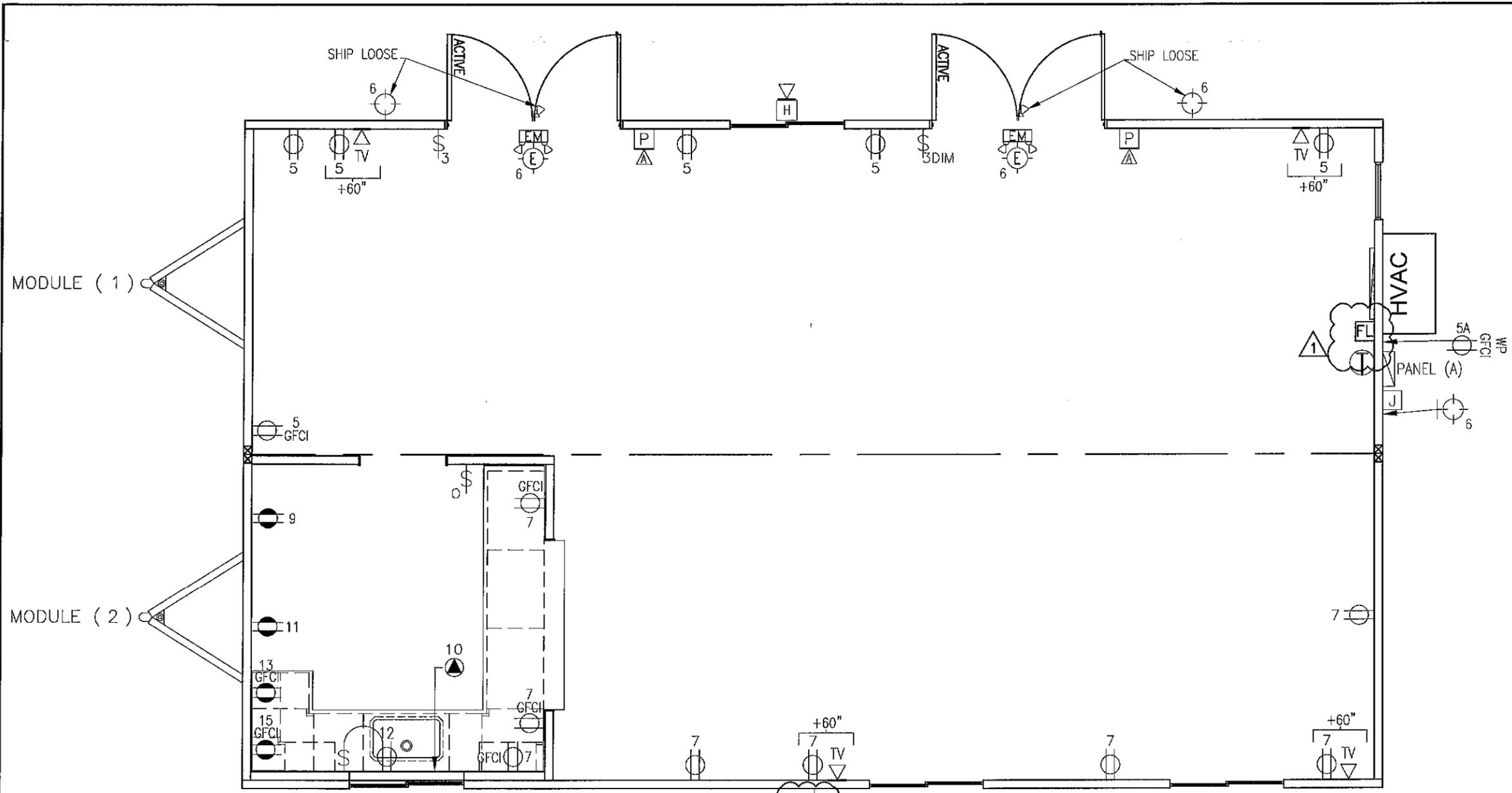
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 PHOENIX, AZ. 85029
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1 ELECTRICAL PLAN
1/4"=1'-0"

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|--|-------|-----|---------------------------------------|
| △ | 200 AMP 1 PHASE 120/240 W/200 AMP MAIN. 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | |
| ⊕ | DUPLEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 10 | |
| GFCI | GROUND FAULT CIRCUIT INTERRUPT RCPT. w/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 4 | |
| ⊕ | GFCI DUPLEX RCPT. w/ WEATHER PROOF COVER PLATE @ 15" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | |
| ⊕ | DEDICATED RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 2 | FOR FUTURE REFRIGERATOR |
| GFCI | DEDICATED GROUND FAULT CIRCUIT INTERRUPT RCPT. w/ COVER PLATE @ 42" A.F.F. U.N.O. (N.B.S.) | IVORY | 2 | FOR FUTURE MICROWAVE |
| ⊕ | SINGLE POLE SWITCH w/ SINGLE RECEPT. FOR GARBAGE DISPOSAL w/ COVER PLATES. (N.B.S.) | IVORY | 1 | SWICH @ 46" A.F.F. RECPT @ 18" A.F.F. |
| ⊕ | CEILING MNT'D OCCUPANCY SENSOR (S1200) w/ POWER PACK (B2-150) WAITSTOPER OR EQUAL | IVORY | 1 | SINGLE |
| ⊕ | WALL MNT'D OCCUPANCY SENSOR w/ COVER PLATE @ 46" A.F.F. WAITSTOPER ISO-DOV (OR EQUAL) | IVORY | 1 | |
| ⊕ | 3-WAY WALL MNT'D DIMMING SWITCH w/ COVER PLATE @ 46" A.F.F. LUTRON DVSTV (OR EQUAL) | IVORY | 1 | |

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|---|-------|-----|---|
| ⊕ | 3-WAY WALL MNT'D SWITCH w/ COVER PLATE @ 46" A.F.F. (N.B.S.) | IVORY | 1 | |
| KTV | 4x4 J-BOX @ 60" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ SCL. MUD RING AND COVER PLATE | N/A | 4 | FOR FUTURE TELEVISION |
| ⊕ | 6x6x6 NEMA 3R J-BOX SEMI-RECESSED MNT'D @ 16" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊕ | 4x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO/VISUAL |
| P | 2x4 J-BOX @ 45" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | N/A | 2 | FOR FUTURE PULL STATION |
| ⊕ | 2x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE U.N.O. | METAL | 1 | FOR FUTURE EXT. HORN |
| ⊕ | HARD WIRED SINGLE GANGED J-BOX FOR WATER HEATER @ 16" A.F.F. w/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 1 | |
| ⊕ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 3 | w/ PHOTOCELL ON LIGHT (2) SHIPPED LOOSE |

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|---|-----|-----|--|
| ⊕ | 2x4-LED TUBE FLUORESCENT FIXTURE, RECESSED, DIFFUSED, (NO BRAND SPECIFIED) | N/A | 12 | DIMMABLE |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 86" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 86" A.F.F. | N/A | 2 | OCTAGONAL BOX FOR REMOTE HEAD SHIPPED LOOSE (PROGRAMMABLE) |
| ⊕ | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HPI BARD MULTI-STAGE 8403-060 | N/A | 1 | |
| ⊕ | 2x4 J-BOX @ 48" A.F.F. w/ 3/4" CONDUIT STUBBED w/ T-STAT WIRE TO J-BOX @ RAFTERS w/ COVER PLATE | N/A | 1 | FOR FILTER LIGHT INDICATOR |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 1 | FUTURE EXT. LIGHT |
| ⊕ | 4x4 J-BOX w/ RELAY @ RAFTERS w/ COVER PLATE U.N.O. | N/A | 1 | FOR FILTER RELAY |

NOTE:
 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)

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DEALER: DSMBI

PROJECT: DINING ROOM

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3817-2440

DRAWN BY: KN/BS

PLOT DATE: 3/28/2018

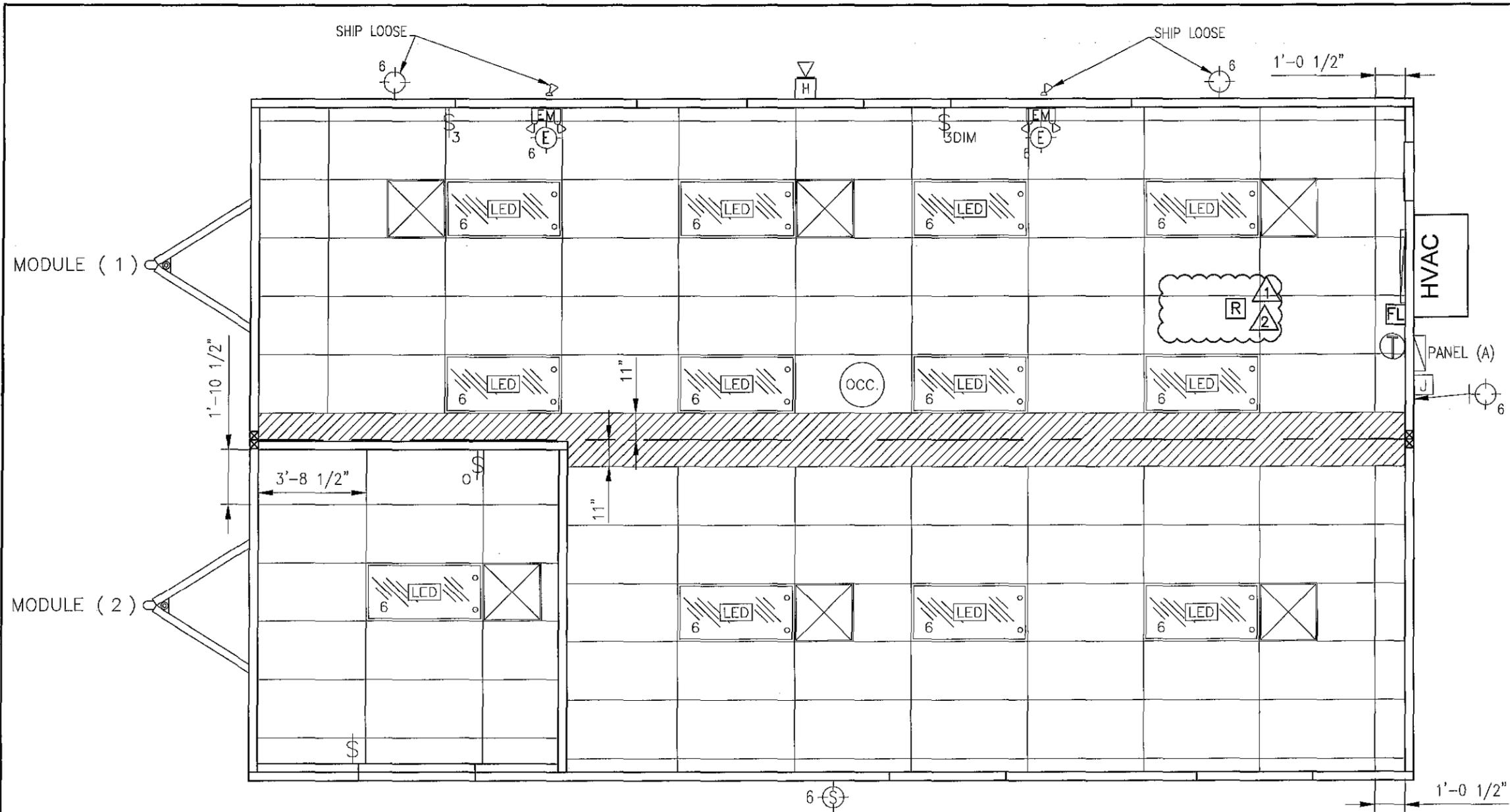
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 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C. #C206
 PHOENIX, AZ. 85029
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1 REFLECTED CEILING PLAN
1/4"=1'-0"

PHOENIX MODULAR
 3501 W. MADISON ST., PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476
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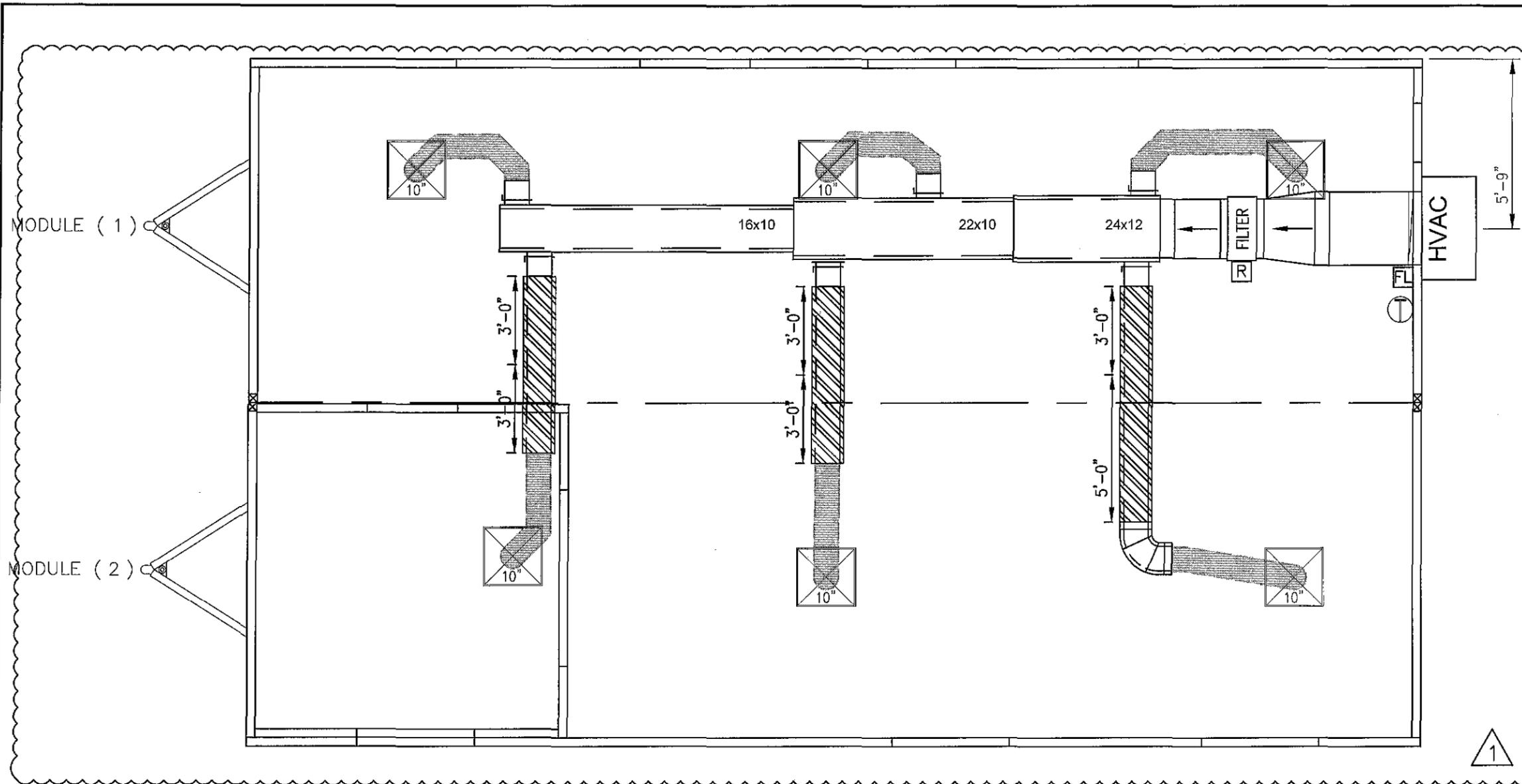
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1 REFLECTED CEILING PLAN
1/4"=1'-0"

REQUIRED VENTILATION:
 TOTAL AREA: 888 SQ. FT.
 PANTRY AREA: 111 SQ. FT. (300 SQ. FT. PER OCC)
 OCCUPANTS: 1
 REMAINING AREA: 777 SQ. FT. (15 SQ. FT. PER OCC)
 OCCUPANTS: 52
 53 OCCUPANTS
 REQUIRED FRESH AIR PER OCCUPANT: 15 CFM
 REQUIRED FRESH AIR: 53 X 15 = 795 CFM
 5T HP UNIT: 1800 CFM
 ECONIMIZER SET AT 50% OPEN: 1800/2 = 900 CFM
 900 > 795 THEREFOR OK

| SYM | DESCRIPTION | QTY |
|----------|---|------|
| HVAC | 5 TON H/P W/ 10 kw HEAT STRIP (ECONIMIZER) MODEL # (W6DH2-A10) MOUNT @ 118-1/2" AFF TO TOP OF SUPPLY OPENING | 1 |
| [Symbol] | 30" x 10" GALV. SLEEVE x 38" LONG | 1 |
| [Symbol] | MERV 14 FILTER RACK (3 PIECES) SUPPLIED BY GP ASSEMBLE AND SEAL ALL SEAMS WRAPPED W/R-8 | 1 |
| [Symbol] | 30"x18" STAMP FACED THRU WALL RETURN AIR GRILL W/ 31" x 17" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| [Symbol] | 24"x12"x10'-0" FIBERGLASS DUCT. | 0.5 |
| [Symbol] | 22"x10"x10'-0" FIBERGLASS DUCT. | 0.75 |
| [Symbol] | 18"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| [Symbol] | 24"x24" 4-WAY THROW DIFFUSER, 10" COLLAR W/ SCOOP & DAMPER 10" FLEX, 10" START COLLAR. | 6 |
| [Symbol] | 10" GALV'D DUCT (R-5 INSULATION) | 20LF |
| [Symbol] | 10" GALV'D ELBOW (R-5 INSULATION) | 1 |

NOTE: INSTALL HVAC DUCTS 6" MIN. DOWN FROM RAFTERS.
FLEX DUCT NOT TO EXCEED 5'

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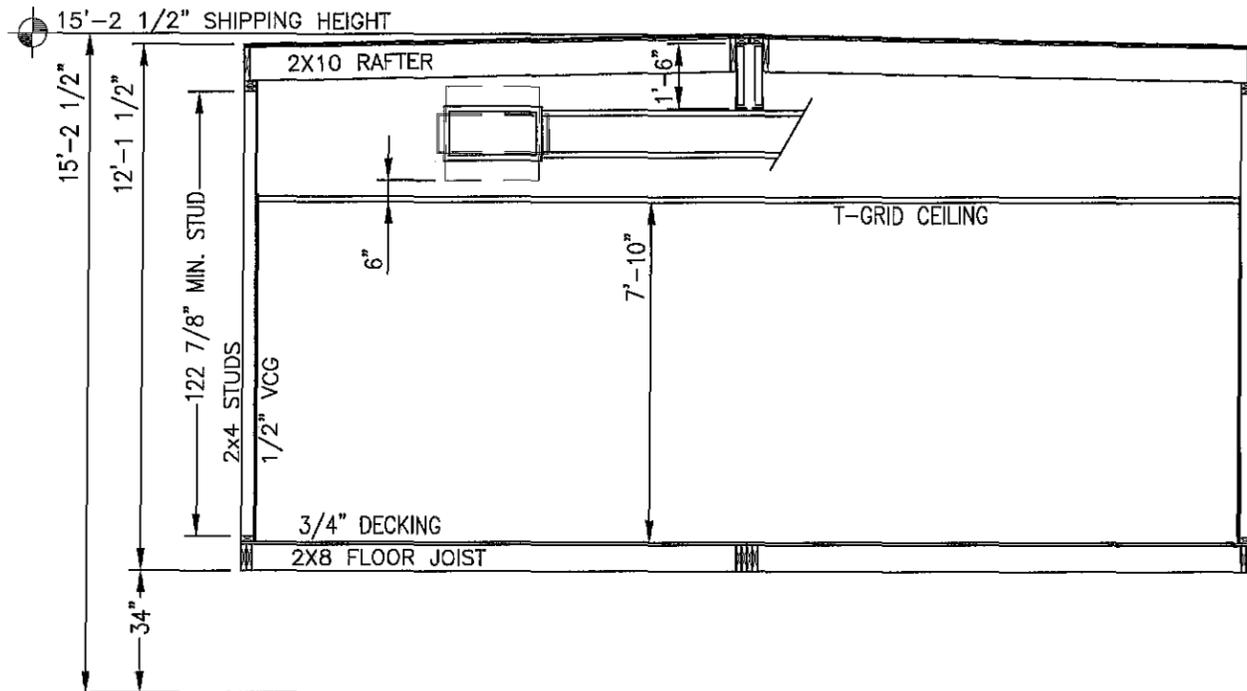
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1 BUILDING CROSS SECTION

1/4"=1'-0"

| 200 AMP 120/240 1 PHASE PANEL WITH 200 AMP MAIN BREAKER (NEMA 3R) | | | | | | | | | |
|--|-----------------------------------|---------|-----|-------|-------|-------|---------|--|----|
| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
| 6 | 5-TON HVAC UNIT | 1 | 60 | 6240 | | 60 | | 10kw HEAT STRIP | 6 |
| | | | | 5640 | | | 2 | | |
| 6 | | 3 | 2 | | 6240 | 2 | | | 6 |
| | | | | 5640 | | | 4 | | |
| 12 | (5) STD, (1) WP GFCI, (1) GFCI | 5 | 20 | 1260 | | 20 | | (12) LEDs, (4) PORCH, (2) EM/EX LITES | 12 |
| | | | | 574 | | | 6 | | |
| 12 | (5) STD, (3) GFCI RECEPITS | 7 | 20 | | 1440 | 20 | | SPRINKLERS | 12 |
| | | | | | 800 | | 8 | | |
| 12 | FRIDGE | 9 | 20 | 800 | | 20 | | INSTA HOT | 12 |
| | | | | 3000 | | | 10 | | |
| 12 | FRIDGE | 11 | 20 | | 800 | 20 | | GARBAGE DISPOSAL | 12 |
| | | | | | 1200 | | 12 | | |
| 12 | MICROWAVE | 13 | 20 | 1260 | | | | Space | |
| | | | | | | | 14 | | |
| 12 | MICROWAVE | 15 | 20 | | 1260 | | | Space | |
| | | | | | | | 16 | | |
| | | | | 18774 | 17380 | Total | | | |

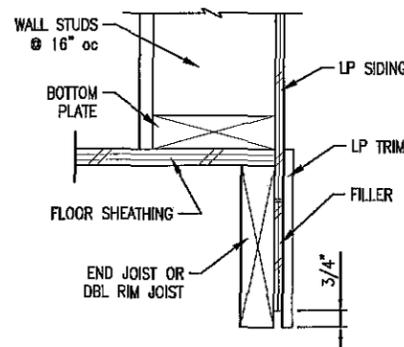
ELECTRICAL CALCULATION:

GENERAL LIGHTING:

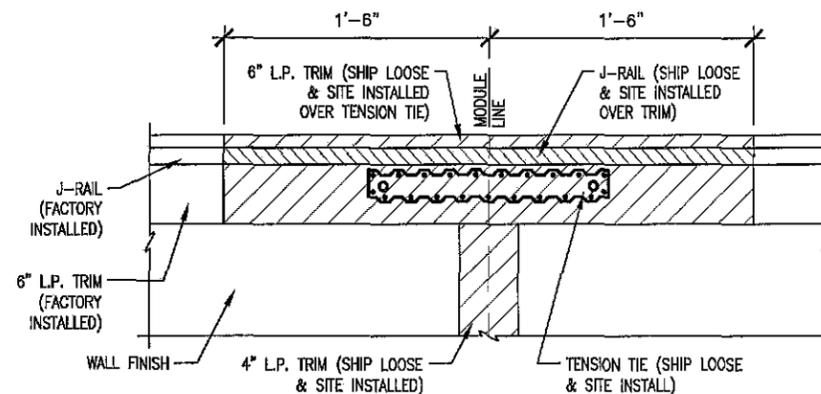
- 770 SQ. FT x 3.5 x 1.25 = 3369 watts
- 15 RECEPTACLES = 2700 watts
- 1 HVAC UNITS = 23760 watts
- 1 SPRINKLER = 800 watts
- 2 FRIDGE = 1800 watts
- 2 MICROWAVE = 2520 watts
- 1 GARBAGE DISP. = 1200 watts
- 1 INSTA-HOT = 3000 watts

TYPE OF PANEL: LOAD CENTER

38949 watts divide by 240volts = 162.3 AMPS TOTAL



2 DETAIL (WALL FINISH @ FLOOR)



| STRAP TYPE | FASTENERS | VALUE (LBS) |
|------------------|----------------------------------|-------------|
| SIMPSON 'ST2215' | (20) 10d NAILS (0.148" x 1-1/2") | 991 |

3 DETAIL (ROOF DIAPHRAGM MODULE LINE CHORD TIE)

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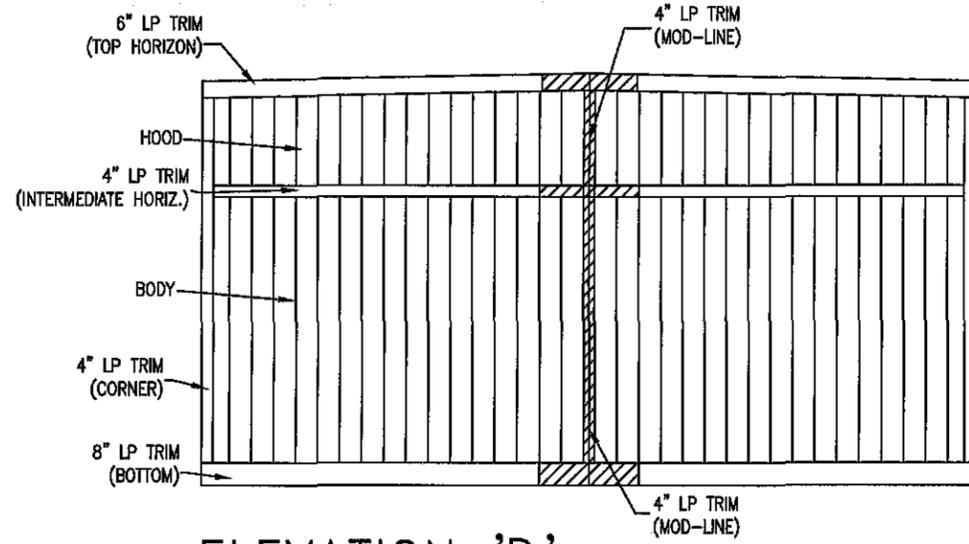
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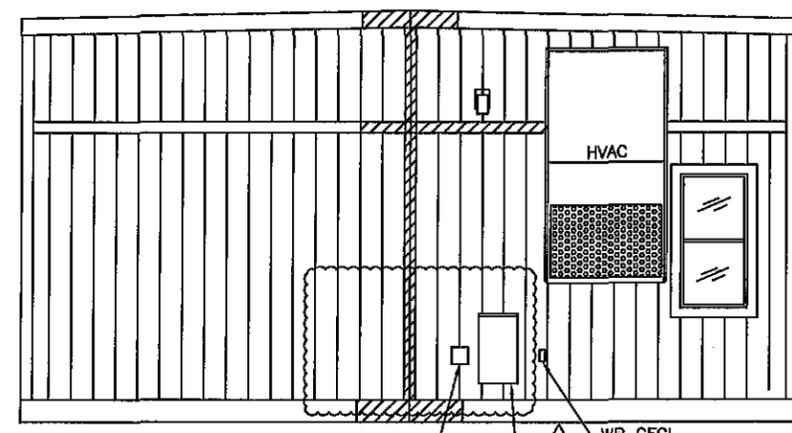
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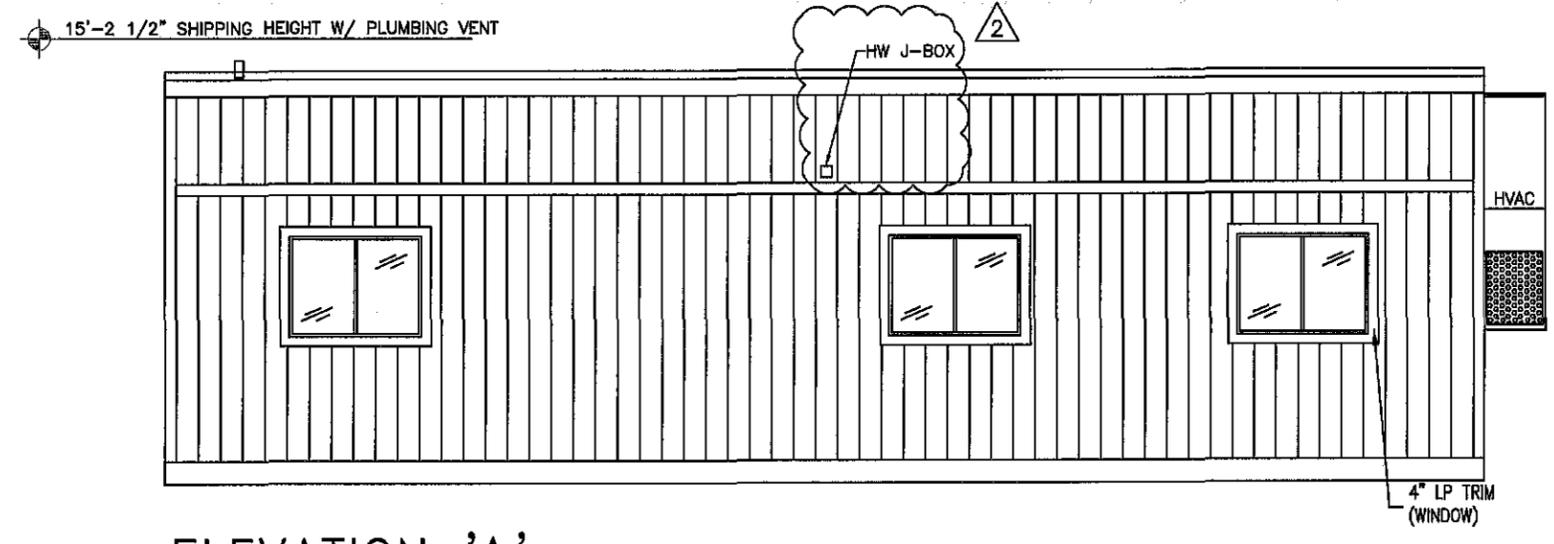


ELEVATION 'D'

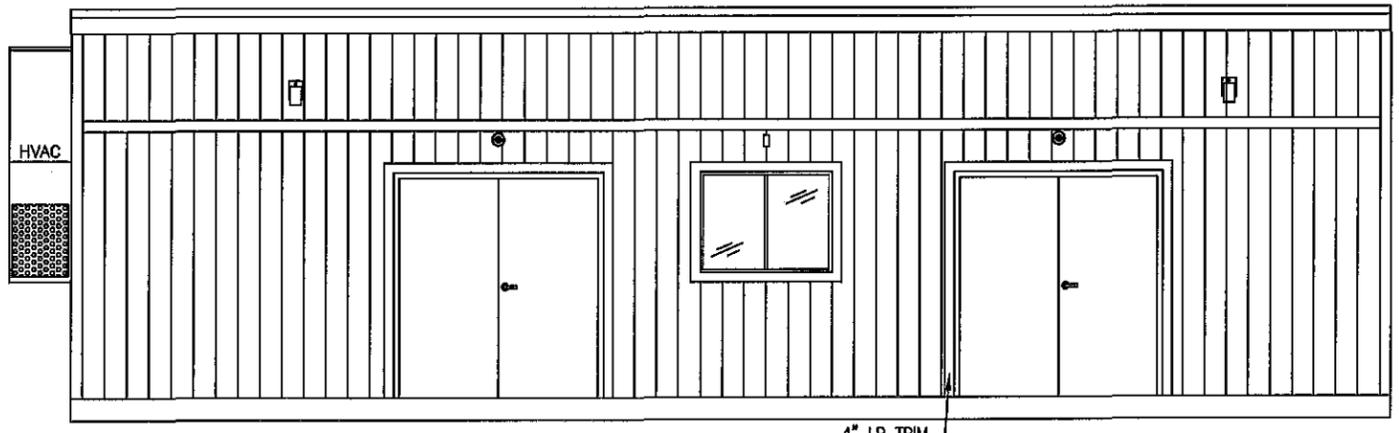
HATCHING DENOTES:
LP TRIM SHIPPED LOOSE.



ELEVATION 'C'



ELEVATION 'A'



ELEVATION 'B'

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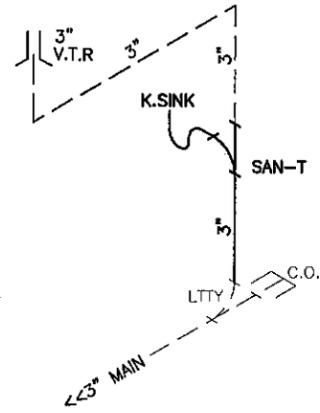
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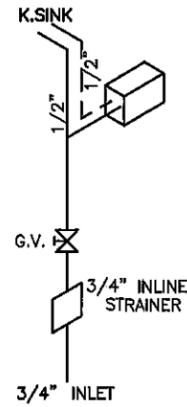
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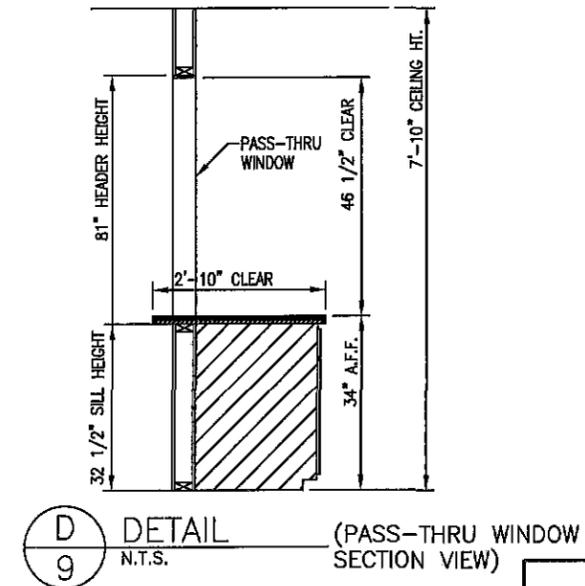
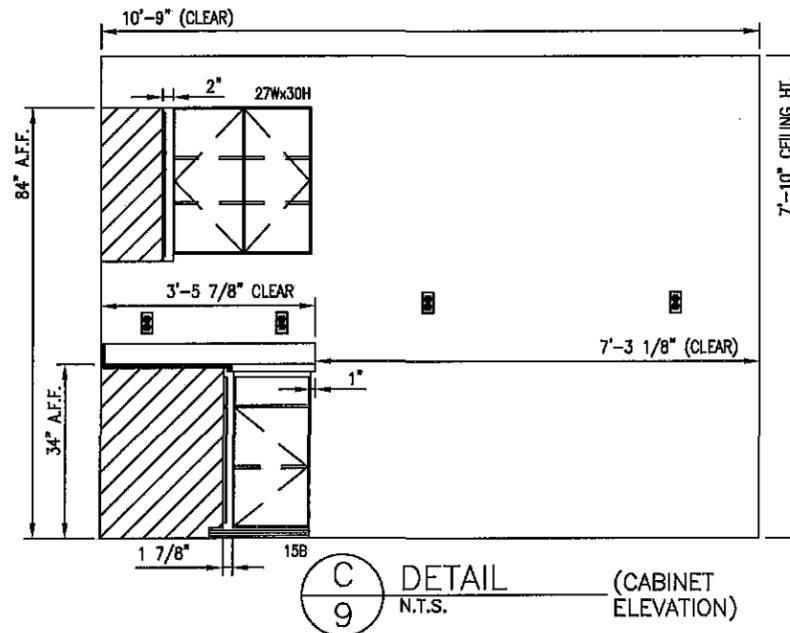
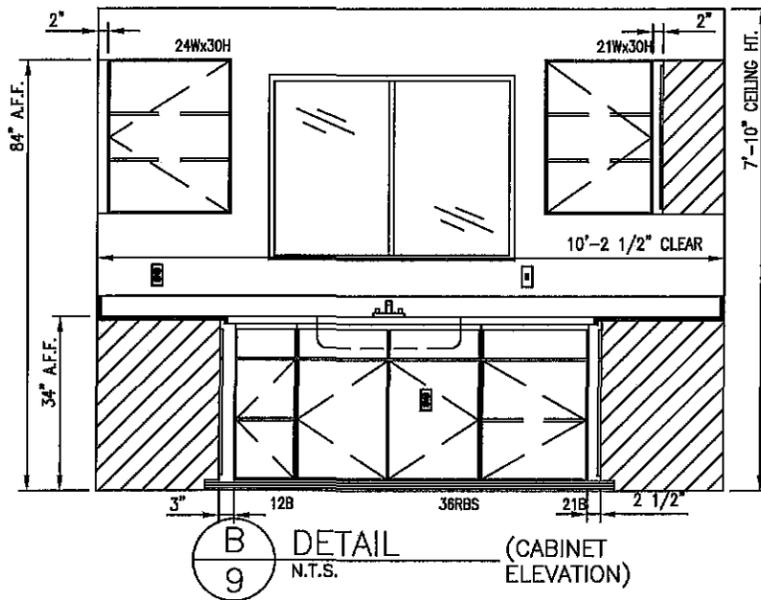
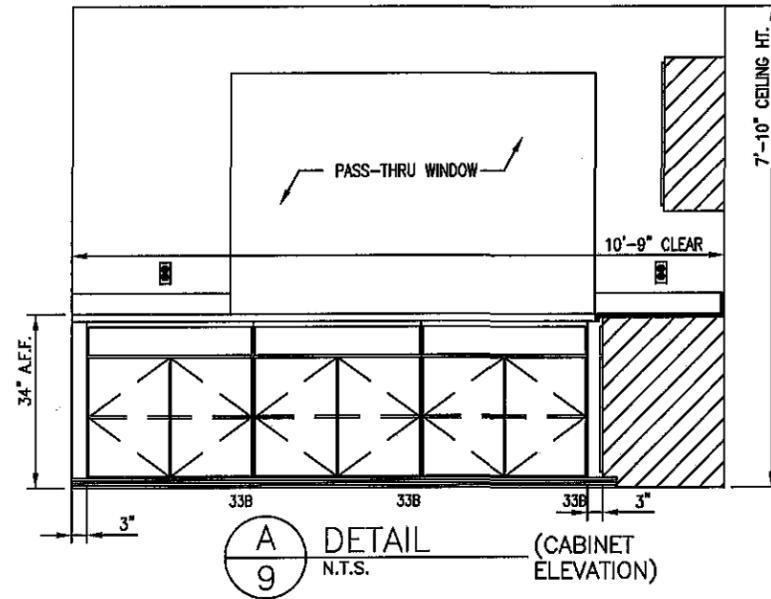
WASTE & VENT SCHEMATIC

ALL PIPE TO BE ABS SCHEDULE 40
AND WILL SLOPE 1/4" PER FOOT
NOTE: PLUMBING MANIFOLD TO BE SUPPLIED
AND INSTALLED ON SITE BY OTHERS.



COLD & HOT SCHEMATIC

MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 46 TO 60 PSI
GREATEST DEVELOPED LENGTH 40'
SUPPLY: COPPER (TYPE M)



PHOENIX MODULAR

SUNBELT MODULAR, INC.
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TEL: 602-447-5660 FAX: 602-447-5476
AMTEX | INDOOR | PHOENIX | M.R. STEEL | AMERIFAB

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PERMISSION.

DEALER:
DSMBI

PROJECT:
DINING ROOM

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3817-2440

DRAWN BY:
KNBS

PLOT DATE:
3/28/2018

REV # / DATE:
#1 2/8/2018 PR#1
#2 3/14/2018 PR#3&4

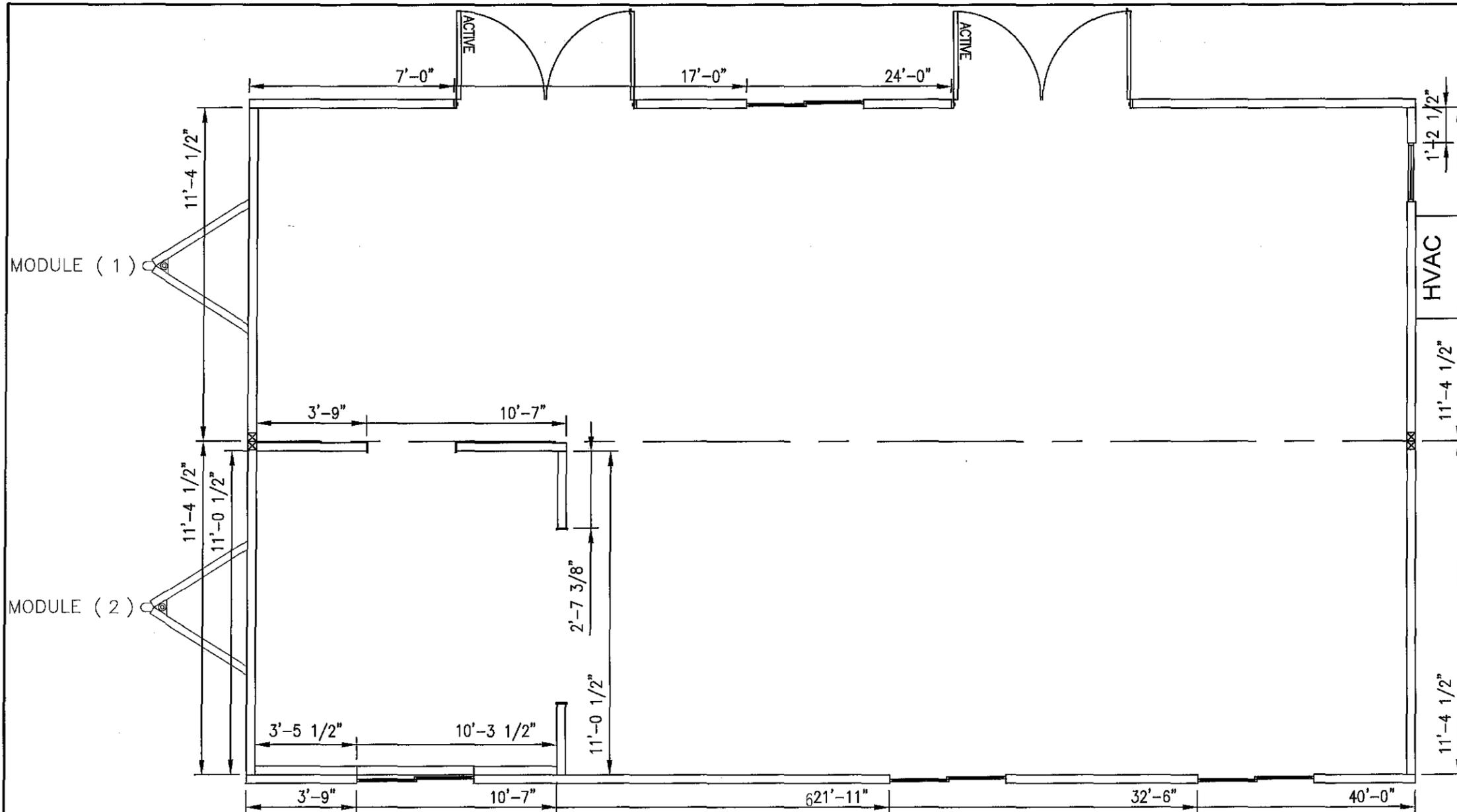
R. MARK STEELE, P.E.
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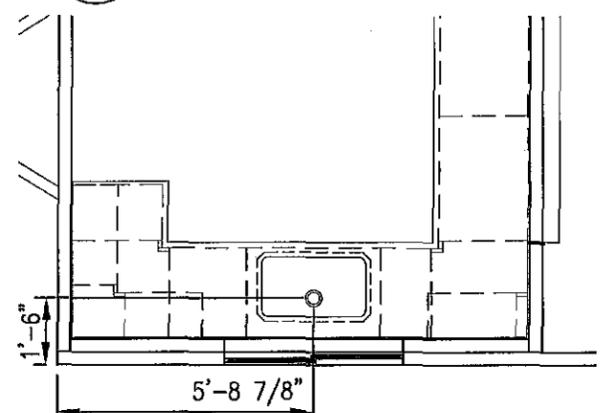
MAR 28 2018

SHEET:

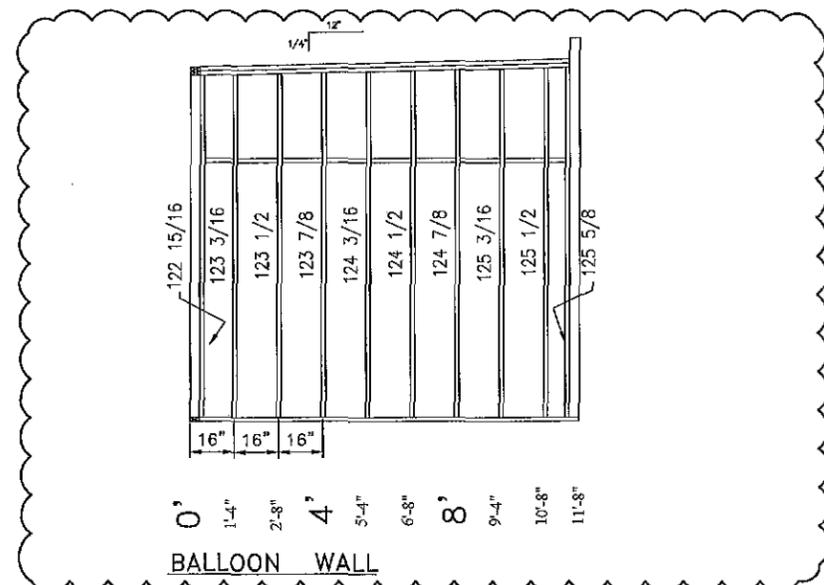
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OF
9



1 WALLSET PLAN
1/4"=1'-0"



2 PLUMBING SET
1/4"=1'-0"



1

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 #2 3/14/2018 PR#3&4

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R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

SHEET:
WS
 OF
9

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 (SEE WEBSITE FOR PHOENIXMODULAR.COM
 WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
 BUILDING SQ.FT. 486
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. B
 OCCUPANCY LOAD. 5
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
 (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. N/A
5. N/A
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTORS
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL.

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. OFFICE
3. SET TYPE PAD/PIER ABOVE GRADE

DRAWING INDEX

SHEET 1: COVER SHEET
 SHEET 2: SPECIFICATIONS AND CONDITIONS
 SHEET 3: FLOOR PLAN, PLUMBING SCHEMATICS
 SHEET 4: ELECTRICAL PLAN
 SHEET 5: REFLECTED CEILING PLAN
 SHEET 6: HVAC PLAN
 SHEET 7: CROSS SECTION, MISC. DETAILS
 SHEET 8: ELEVATIONS

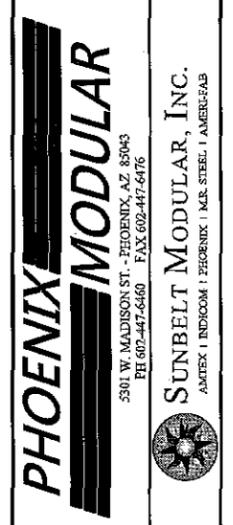
DEALER:
 DSMBI

PROJECT:
 OFFICE
 12' x 40'
 PMI-3818-1240

MANUFACTURED BY:



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DEALER: DSMBI

PROJECT: OFFICE

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3818-1240

DRAWN BY: RH / BS

PLOT DATE: 3/28/2018

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 #2 2/27/2018 PR#4
 #3 3/15/2018 PR#5

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

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SHEET: 1 OF 7

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (1) EA
 Size: 11'-8"x 40'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: TRIPLE 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
 Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. T & G Plywood.
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
 Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
 N/A

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
 Top plate: Single 2X4 #2 HF equal or better (Double as needed)
 Bottom plate: Single 2X4 #2 HF or better bottom plate
 Stud length: 92-5/8 in. (Ceiling Ht.)
 Insulation: N/A

Additional Interior Wall Items Included in Quoted Price:
 Item 1: N/A

ROOF CONSTRUCTION:

Roof Type: Shed (slope roof sloping away from exterior doors)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better (FULLY BLOCKED)
 Rafter Length: 137 in.
 Spacing: 16 in. O.C.
 Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White
Additional Roof Items Included in Quoted Price:
 Item 1: N/A

FINISHES:**FLOOR COVERING**

Type 1: 0.080 Linoleum
 Location: (REMAINDER)
 Color to be: (White Cliff)
 Type 2: 0.080 self cove linoleum covered up wall 6 in. (min)
 Location: (RESTROOM ONLY)
 Color to be: (White Cliff)

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: (REMAINDER)
 Color to be: (GRAY)
 Cove Base 2: Self Cove (see floor finish)
 Location: (RESTROOM ONLY)

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: (Thru-out)
 Height: 8 ft.
 Color to be: (Tiki Grass Chalk)
 Covering 2: FRP Wainscot - per code
 Location: (RESTROOM ONLY)
 Height: 4 ft.
 Color to be: (White).

TRIM

Wall Trim 1: Vinyl Covered trim
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Armstrong Tile #769A or Equal)
 Height: 7'-10"

EXTERIOR

Siding body: Color: (BUTTERSCOTCH) 8 ft. sheets
 Hood: Color: (BUTTERSCOTCH)
 Corner trim: Color: (BUTTERSCOTCH)
 Door & window trim: Color: (BUTTERSCOTCH)
 Bottom horizontal trim: Color: (BUTTERSCOTCH)
 Intermediate horizontal trim: Color: (BUTTERSCOTCH) separates hood & body
 Top horizontal trim: Color: (BUTTERSCOTCH)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)**WINDOWS:** (SEE WINDOW SCHEDULE)**CLOSEUP:**

Type: Single Unit
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

PHOENIX MODULAR

5301 W. MADISON ST. - PHOENIX, AZ 85043
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 AMTREC 1 INDCOM 1 PHOENIX 1 M&E STEEL 1 AMBERFAB



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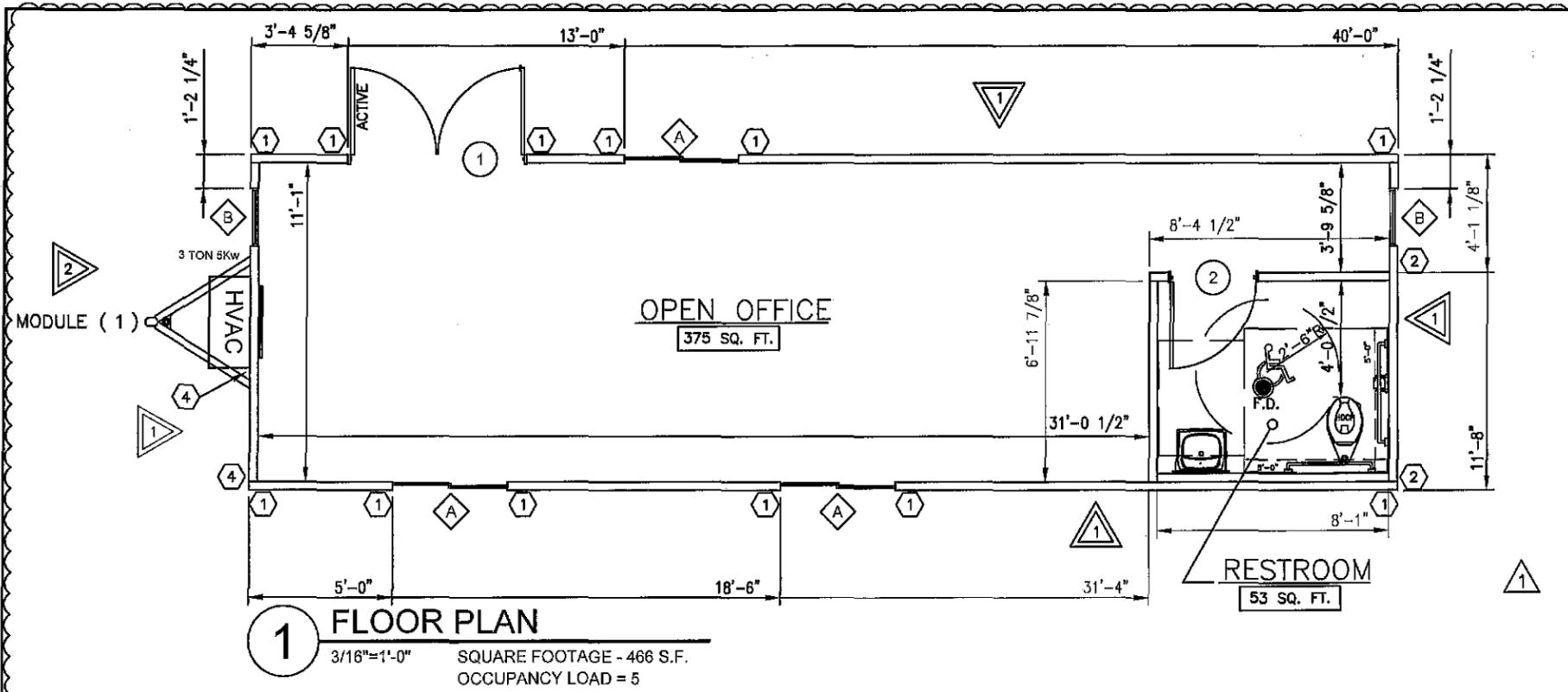
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 PHOENIX, AZ, 85029
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SHEET:

2
 OF
 7

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DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|-----------------------------------|-----------------------------|----------------|---------|------|-------------------|----------|--|--|--------------------------|---|-------------|----------|---|
| 1 | 1 | COMMERCIAL STEEL INSULATED 18 GA. | KD 18 GA BUTTERSCOTCH | 4 7/16" | NONE | 6068 | 74 3/4" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (BUTTERSCOTCH) | HYDRAULIC (ACTIVE), STORM CHAIN (INACTIVE) | SINGLE CYLINDER, GRADE 2 | PASSAGE LEVER, TELL GRADE 2, AS IN AGAL WITH FLUSH BOLT | NONE | SEPARATE | DRIP CAP, (4) STD & (2) NRP HINGES, WEATHERSTRIPPING, TIRRES HOLD, DOOR SWEEP |
| 1 | 2 | PREFINISHED WOOD HOLLOW CORE | TIMELY METAL JAMB BROWNTONE | 4 1/2" | N/A | 3068 | 37 1/2" x 81 1/4" | N/A | LEGACY OAK | N/A | N/A | PRIVACY LEVER, TELL GRADE 3 | N/A | N/A | HINGES & WALL MOUNT STOPS |

WINDOWS:

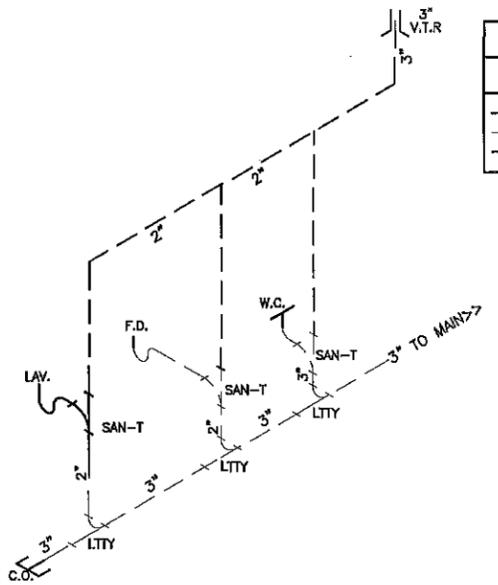
| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
|-----|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|--|--|
| 3 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4030 | 48" x 36" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM WITH ADA WAND, COLOR TO BE: (WHITE SATIN C205) | HEADER AT 81" A.F.F. HANDLE @ BOTTOM OF WINDOW |
| 2 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2040 | 24" x 48" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM WITH ADA WAND, COLOR TO BE: (WHITE SATIN C205) | HEADER AT 81" A.F.F. |

PLUMBING SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|--------|---|----------|
| | FLOOR MNT'D ELONGATED BOWL FOR HANDICAPPED (KOHLER K-96057-0) w/ TOILET SEAT (KOHLER K-4731-C 0), FLUSHMETER (ROYAL MODEL 111-1.28 / 3910168) HANDLE ON OPEN SIDE | 1 |
| | ONE SET GRAB BARS, INCLUDES: (1) 36" LONG & (1) 42" LONG, MOUNTED @ 34" A.F.F. (INCLUDE 18" LONG GRAB BAR) | 1 SET(S) |
| | TOILET PAPER HOLDER (NO BRAND SPECIFIED) | 1 |
| | WALL HUNG LAVATORY W/ 29" SPACE UNDERNEATH RIM FOR HANDICAPPED (KOHLER K-2007-0) w/ GOOSENECK FAUCET (FOTO TEL151-D10ET #CP) | 1 |
| | 24"x36" MIRROR w/ S.S. FRAME @ 38" A.F.F. (NO BRAND SPECIFIED) | 1 |
| | POINT OF USE WATER HEATER (EEMAX SP3512 120V - 3.5kW) | 1 |
| | 2" FLOOR DRAIN w/ TRAP GUARD (NO BRAND SPECIFIED) | 1 |
| | 3/4" WATER HAMMER ARRESTOR | 1 |

STRUCTURAL LEGEND

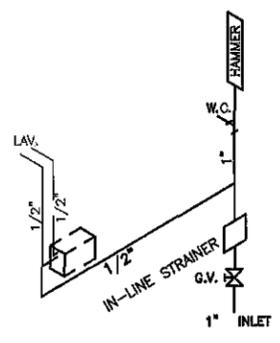
| | |
|--|---|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |



WASTE & VENT SCHEMATIC
 ALL PIPE TO BE ABS OR PVC SCHEDULE 40 AND WILL SLOPE 1/4" PER FOOT
 NOTE: PLUMBING MANIFOLD TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.

LEGEND

| SYM | DESCRIPTION |
|-----|--|
| | WASTE DRAIN (FACTORY INSTALLED) |
| | WASTE DRAIN (SUPPLIED & INSTALLED BY OTHERS) |
| | WASTE VENT (FACTORY INSTALLED) |



COLD & HOT SCHEMATIC
 MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 30 TO 45 PSI GREATEST DEVELOPED LENGTH 100'
 SUPPLY: COPPER (TYPE M)(OR PEX)

PHOENIX MODULAR
 3301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6660 FAX 602-447-6676
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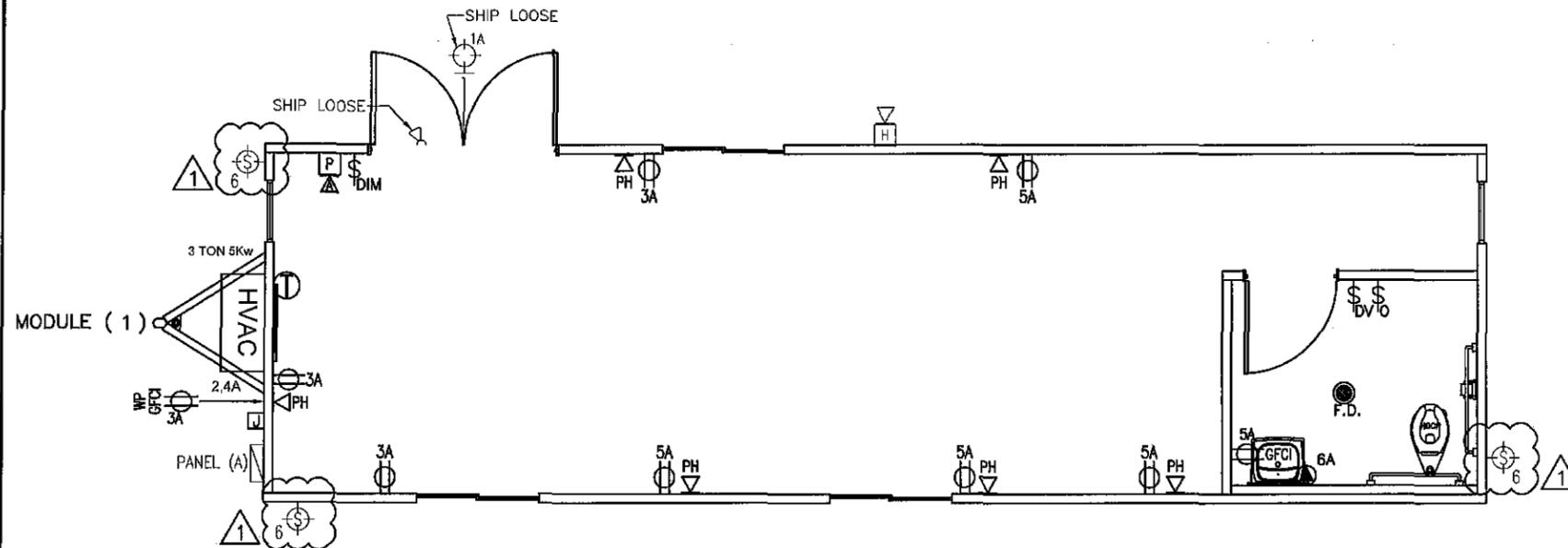
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 MAR 28 2018

SHEET:

3 OF 7



1 ELECTRICAL PLAN
3/16"=1'-0"

| 125 AMP 120/240 1 PHASE | | | | | | | | | |
|---|--|---------|-----|-------|------|-------|---------|---|----|
| PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R) | | | | | | | | | |
| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
| 12 | (5) LED, (1) Fan/Lite, (4) Porch, (1) Em/Ex Lights | 1 | 20 | 325 | 6600 | 60 | 2 | HVAC Unit 3 Ton w/ 5Kw Heat Strip (60A) | 8 |
| 12 | (1) WP GFCI (3) recepts | 3 | 20 | 720 | 6600 | 2 | 4 | | 6 |
| 12 | (1) GFCI (4) recepts | 5 | 20 | 900 | 3000 | 30 | 6 | Insta-Hot Water Heater (Single) | 10 |
| | Space | 7 | | | | | 8 | Space | |
| | Space | 9 | | | | | 10 | Space | |
| | Space | 11 | | | | | 12 | Space | |
| | | | | 10825 | 7320 | Total | | | |

ELECTRICAL CALCULATION:

GENERAL LIGHTING:
 421 SqFt x 3.5 x 1.25 = 1842 watts
 9 RECEPTACLES = 1620 watts
 1 HVAC UNITS = 13200 watts
 1 WATER HEATER = 3000 watts

TYPE OF PANEL: LOAD CENTER

19662 watts divide by 240volts = 81.92 AMPS TOTAL

| ELECTRICAL SCHEDULE | | | | | |
|---------------------|---|--|-------|----------------------------------|--|
| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS | |
| △ | PANEL | 125 AMP 1 PHASE 120/240V / 125 AMP MAIN, 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | |
| □ | 6x6x6 NEMA 3R J-BOX SEMI-RECESSED MNT'D @18" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET | |
| ⊕ | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | | |
| ⊕ | HARD WIRED SINGLE GANGED J-BOX FOR WATER HEATER @18" A.F.F. W/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 1 | | |
| GFCI | GROUND FAULT CIRCUIT INTERRUPT RCPT. W/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | | |
| ⊕ | DUPLEX RECEPTACLE w/ COVER PLATE @18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 7 | △ | |
| ⊕ | 4x4 J-BOX @18" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY W/ SGL. MUD RING AND COVER PLATE | IVORY | 7 | FOR FUTURE TELEPHONE | |
| ⊕ | 2x4-LED FIXTURE, RECESSED, DIFFUSED (NO BRAND SPECIFIED) | N/A | 5 | DIMMABLE | |
| ⊕ | CEILING MNT'D OCCUPANCY SENSOR (CI-205) w/ POWER PACK (BZ-50) OR EQUAL | WHITE | 1 | | |
| △ | DIM | WALL MNT'D DIMMING SWITCH w/ COVER PLATE @ 46" A.F.F. LUTRON DTV (OR EQUAL) | IVORY | 1 | |
| △ | DV | WALL MNT'D (120V) DIMMING/OCCUPANCY SENSOR w/ COVER PLATE @ 46" A.F.F. LUTRON MSCL-OP153M (OR EQUAL) | IVORY | 1 | |
| △ | 0 | WALL MNT'D OCCUPANCY SENSOR (WS-250-I) OR EQUAL @ 46" A.F.F. | IVORY | 1 | |
| ⊕ | 70 CFM FAN/LIGHT COMBO BRAND: BROAN 679 (OR EQUAL) | N/A | 1 | VENT THRU WALL 15W LED BULB | |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 38" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 90" A.F.F. | N/A | 1 | SHIP LOOSE REMOTE HEAD | |
| ⊕ | PORCH LIGHTS @102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 1 | w/ PHOTOCELL ON LIGHT SHIP LOOSE | |
| ⊕ | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE | IVORY | 1 | FOR FUTURE PULL STATION | |
| ⊕ | 4x4 J-BOX @86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 1 | FOR FUTURE AUDIO VISUAL | |
| ⊕ | 2x4 J-BOX @86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | METAL | 1 | FOR FUTURE EXT. HORN | |
| ⊕ | THERMOSTAT @46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) | |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 3 | FUTURE EXT. LIGHT | |
| RACEWAY | MC/FLEX | | | | |
| NOTE: | 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF. 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.) | | | | |

PHOENIX MODULAR

501 W. MADISON ST. - PHOENIX, AZ 85045
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PROJECT: OFFICE

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3818-1240

DRAWN BY: RH / BS

PLOT DATE: 3/28/2018

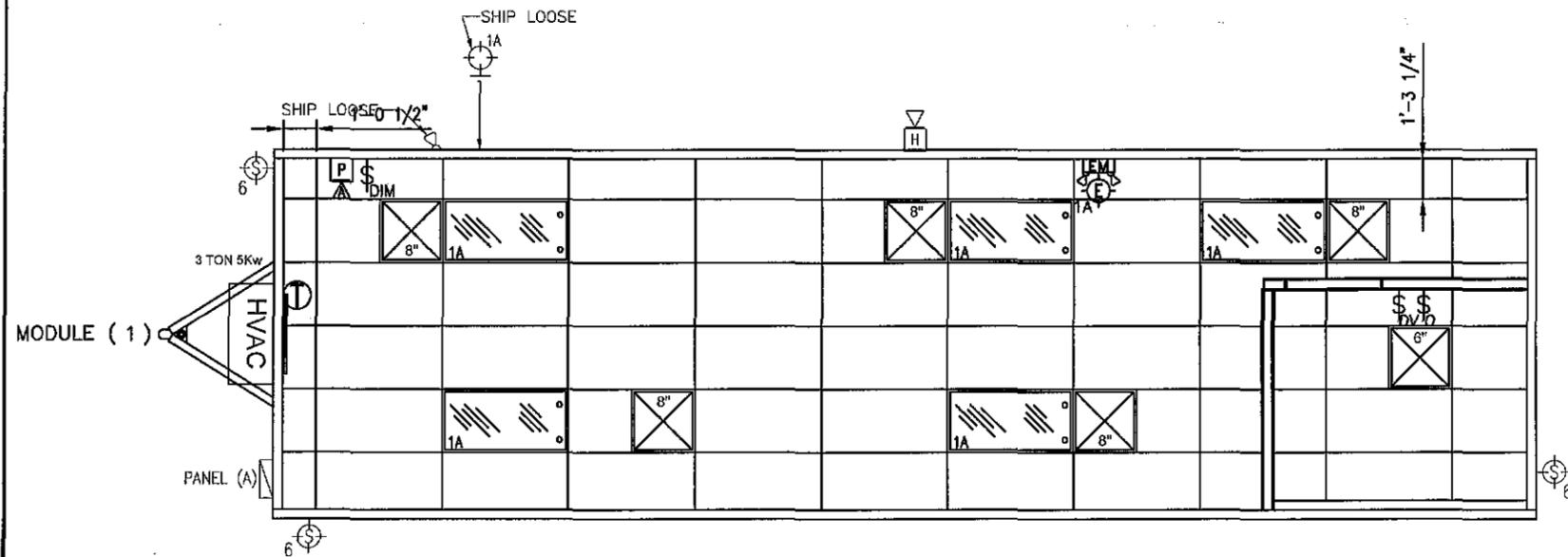
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1125 N. 28TH DR., BLDG. C, #C206
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(602) 327-4769

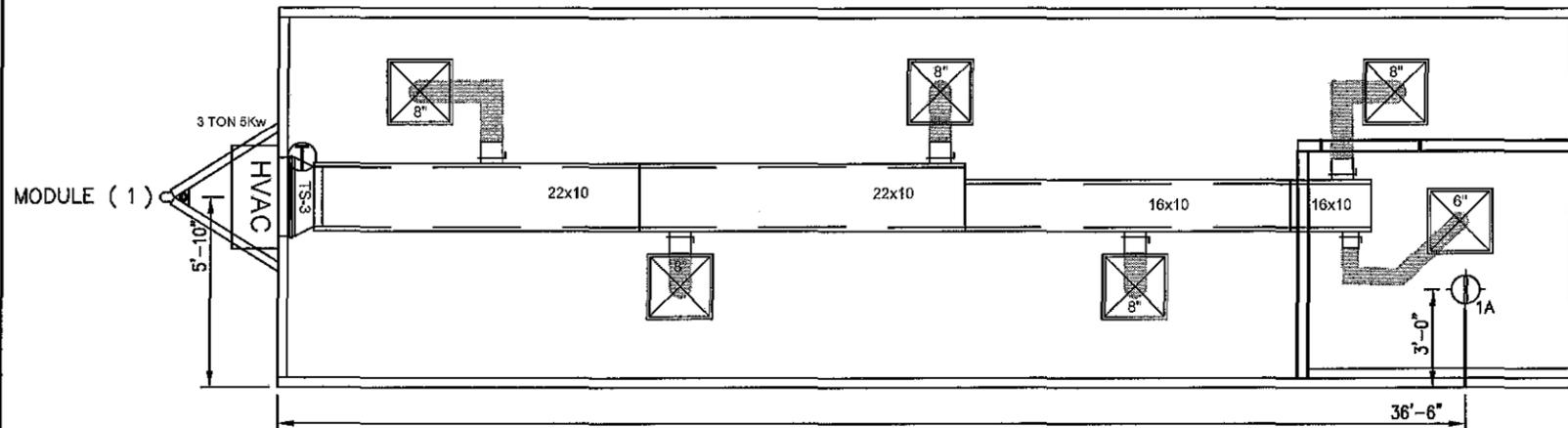
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SHEET: **4** OF **7**



1 REFLECTED CEILING PLAN
3/16"=1'-0"



2 HVAC PLAN
3/16"=1'-0"

| HVAC SCHEDULE | | |
|--|---|------|
| SYM | DESCRIPTION | QTY |
| HVAC | 3 TON HP W/ 5 kw HEAT STRIP (F.A.D.) MERV 8 FILTER MODEL # (W36HA-A05) OR EQUAL | 1 |
| [Symbol] | 28"x9" TO 22"x10" GALV. SLEEVE 16" LONG | 1 |
| [Symbol] | 28"x14" STAMP FACED THRU WALL AIR GRILL w/ 28" x 15" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| [Symbol] | 22"x10"x10'-0" FIBERGLASS DUCT. | 2 |
| [Symbol] | 16"x10"x10'-0" FIBERGLASS DUCT. | 1.25 |
| [Symbol] | 24"x24" 4-WAY THROW DIFFUSER. 6" COLLAR W/ SCOOP & DAMPER 8" FLEX. 6" START COLLAR. | 1 |
| [Symbol] | 24"x24" 4-WAY THROW DIFFUSER. 8" COLLAR W/ SCOOP & DAMPER 8" FLEX. 8" START COLLAR. | 5 |
| NOTE: FLEX DUCT LENGTHS NOT TO EXCEED 5' HOLD DUCT DOWN 6" FOR SPRINKLERS | | |

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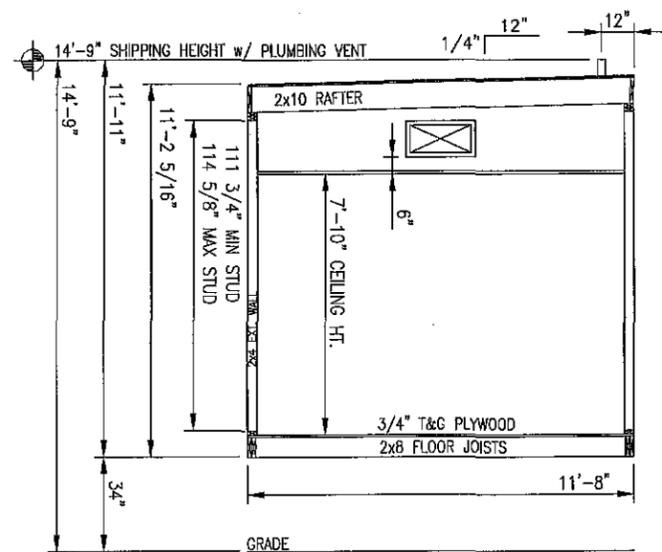
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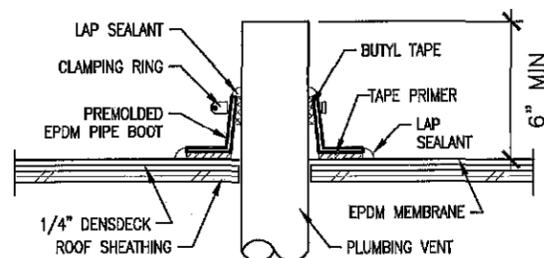
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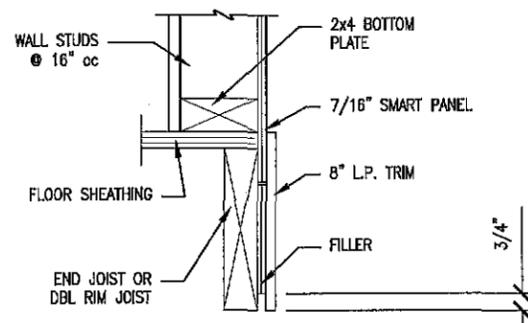


1 CROSS SECTION
3/16"=1'-0"

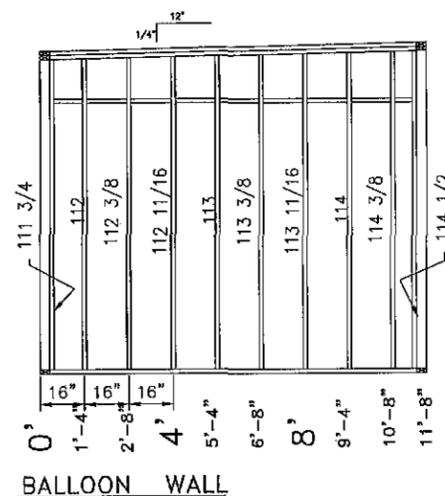


NOTE: SOME LOCATIONS MAY REQUIRE TALLER VENTS,
EXTENSION AVAILABLE FOR PURCHASE WHEN REQ'D.

2 DETAIL (PLUMBING VENT-
6 N.T.S. FACTORY INSTALLED)



3 DETAIL (WALL FINISH
6 N.T.S. @ CHASSIS)



BALLOON WALL

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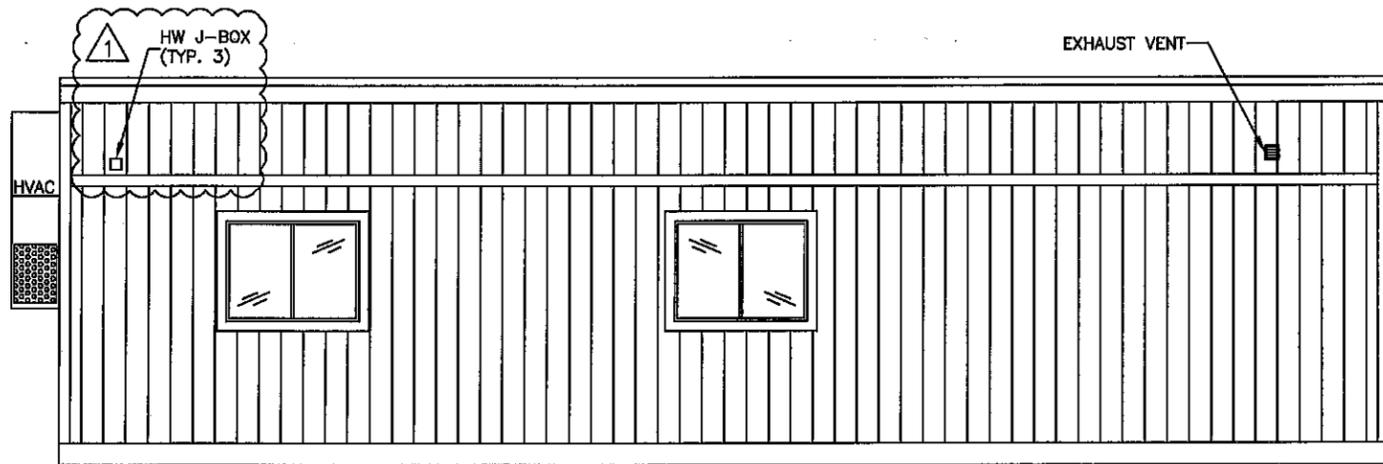
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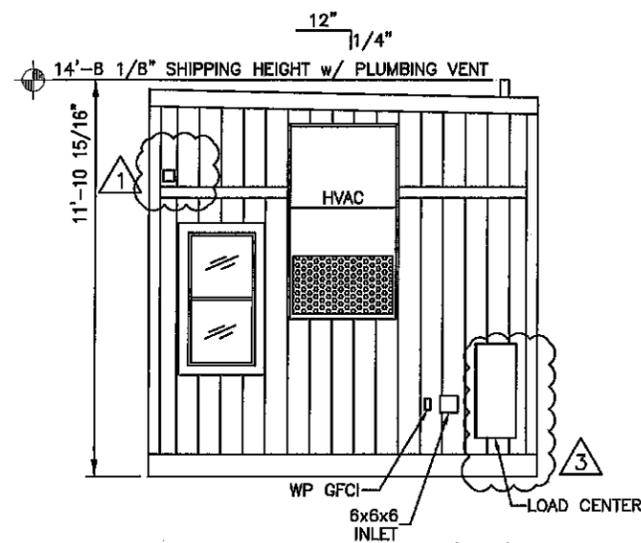
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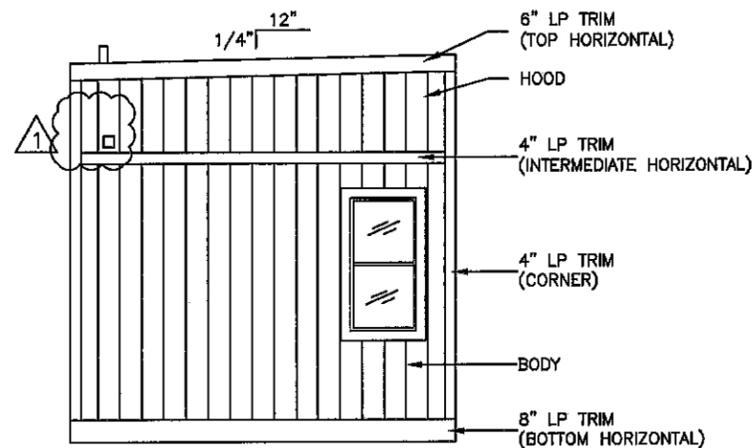
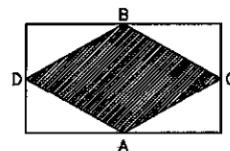
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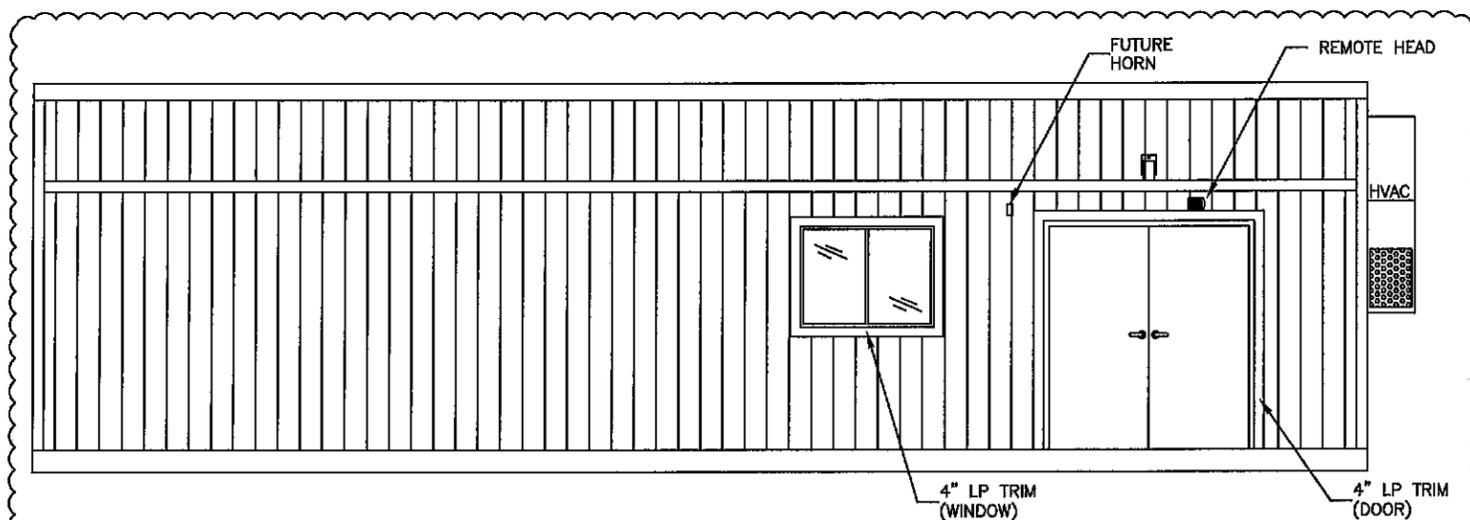
ELEVATION 'B'



ELEVATION 'D'



ELEVATION 'C'



ELEVATION 'A'

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 PHOENIX, AZ. 85029
 (802) 327-4769

SHEET:
 7
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 7

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 (SEE WEBSITE FOR PHOENIXMODULAR.COM
 WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
 BUILDING SQ.FT. 700
 TYPE OF CONSTRUCTION VB
 OCCUPANCY USE GROUP. B
 OCCUPANCY LOAD. 7
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
 (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

- NOT INCLUDED IN SCOPE OF WORK:**
1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
 2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
 3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
 4. N/A
 5. N/A
 6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
 7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

- NOTES:**
1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
 2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
 3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
 4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
 5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
 6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. OFFICE
3. SET TYPE PAD/PIER ABOVE GRADE

- DRAWING INDEX**
- SHEET 1: COVER SHEET
 - SHEET 2: SPECIFICATIONS AND CONDITIONS
 - SHEET 3: FLOOR PLAN, PLUMBING SCHEMATICS
 - SHEET 4: ELECTRICAL PLAN
 - SHEET 5: REFLECTED CEILING PLAN
 - SHEET 6: HVAC PLAN
 - SHEET 7: CROSS SECTION, MISC. DETAILS
 - SHEET 8: ELEVATIONS

DEALER:
 DSMBI

PROJECT:
 OFFICE
 12' x 60'
 PMI-3819-1260

MANUFACTURED BY:

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 #2 / 2-22-18 / KN

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

SHEET:
 1
 OF
 7

FRAME / CHASSIS:

Frame Type: Basement (CH2)
 Quantity: (1) EA
 Size: 11'-8" x 60'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: QUAD 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:

Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. T & G Plywood.
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:

Item 1: Interior shearwall - dbl joist directly below interior shearwall (see detail 2/6)

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

N/A

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
 Top plate: Single 2X4 #2 HF equal or better (Double as needed)
 Bottom plate: Single 2X4 #2 HF or better bottom plate
 Stud length: 92-5/8 in. (Ceiling Ht.), Full Ht. (SHEARWALL ONLY)
 Insulation: N/A

Additional Interior Wall Items Included in Quoted Price:

Item 1: Interior shearwall (see floor plan for location and detail 2/6)
 Sheathing: 3/8" OSB (one side of the wall) 
 Top plate: Fasten to rafter with 3" x 0.131" nails at 4 in. O.C. (4 per stud bay)
 Bottom plate: Fasten to double joist with 3" x 0.131" nails at 4 in. O.C. (4 per stud bay)

ROOF CONSTRUCTION:

Roof Type: Complex
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 Rafter Length: 137 in.
 Spacing: 16 in. O.C.
 Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing (FULLY BLOCKED)
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:

Item 1: Interior shearwall - add single rafter directly above interior shearwall (see detail 2/6)

FINISHES:**FLOOR COVERING**

Type 1: 0.080 Linoleum
 Location: (REMAINDER)
 Color to be: (White Cliff)
 Type 2: 0.080 self cove linoleum covered up wall 6 in. (min)
 Location: (RESTROOM ONLY)
 Color to be: (White Cliff)

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: (REMAINDER)
 Color to be: (Gray)
 Cove Base 2: Self Cove (see floor finish)
 Location: (RESTROOM ONLY)

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: (Thru-out)
 Height: 8 ft.
 Color to be: (Tiki Grass Chalk)
 Covering 2: FRP Wainscot - per code
 Location: (RESTROOM ONLY)
 Height: 4 ft.
 Color to be: (White).

TRIM

Wall Trim 1: Vinyl Covered trim
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Mineral Fiber Tile #769 or Equal)
 Height: 7'-10"

EXTERIOR

Siding body: Color: (BUTTERSCOTCH) 8 ft. sheets
 Hood: Color: (BUTTERSCOTCH)
 Corner trim: Color: (BUTTERSCOTCH)
 Door & window trim: Color: (BUTTERSCOTCH)
 Bottom horizontal trim: Color: (BUTTERSCOTCH)
 Intermediate horizontal trim: Color: (BUTTERSCOTCH) separates hood & body
 Top horizontal trim: Color: (BUTTERSCOTCH)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)**WINDOWS:** (SEE WINDOW SCHEDULE)**CLOSEUP:**

Type: Single Unit
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

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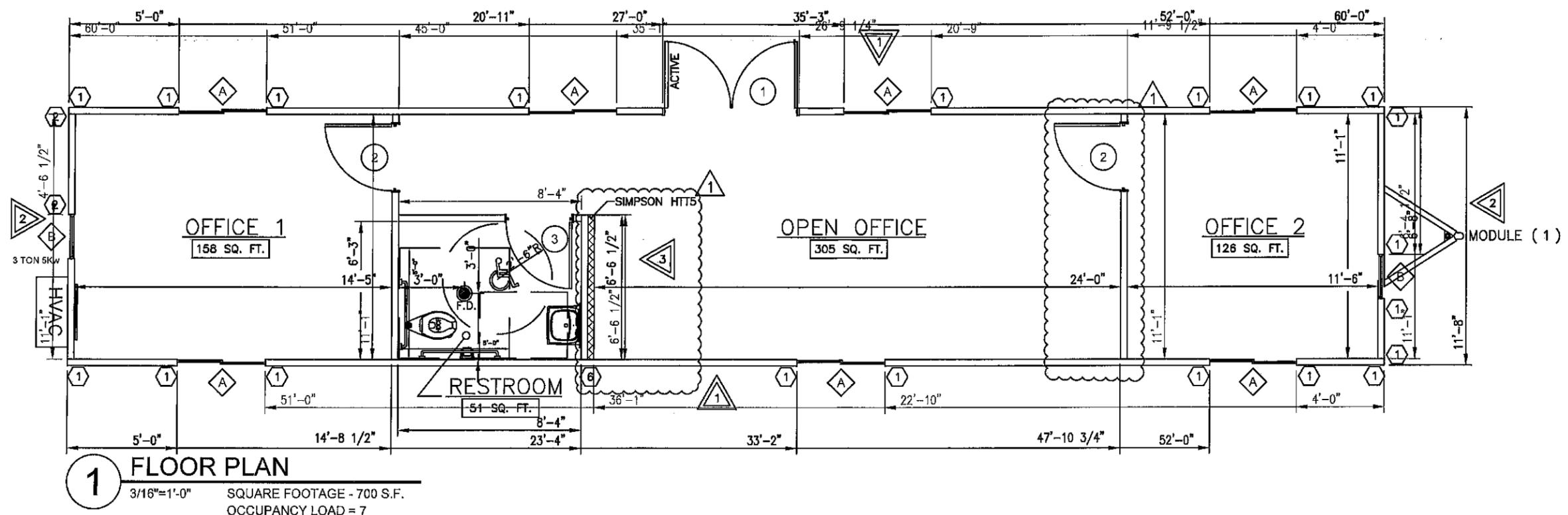
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 (602) 327-4789

SHEET: **3** OF **7**



DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|------------------------------------|-----------------------------|----------------|---------|------|-------------------|----------|--|--|--------------------------|---|-------------|----------|---|
| 1 | 1 | COMMERCIAL STEEL, INSULATED 16 GA. | KD 16 GA. BUTTERSCOTCH | 4 7/16" | NONE | 6068 | 74 3/4" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (BUTTERSCOTCH) | HYDRAULIC (ACTIVE), STORM CHAIN (INACTIVE) | SINGLE CYLINDER, GRADE 2 | PASSAGE LEVER, TELL GRADE 2, ASTRAGAL WITH FLUSH BOLT | NONE | SEPARATE | DRIP CAP, (4) STD & (2) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |
| 2 | 2 | PREFINISHED WOOD HOLLOW CORE | TIMELY METAL JAMB BROWNTONE | 4 1/2" | N/A | 3068 | 37 1/2" x 81 1/4" | N/A | LEGACY OAK | N/A | N/A | PASSAGE LEVER, TELL GRADE 3 | N/A | N/A | HINGES & WALL MOUNT STOPS |
| 1 | 3 | PREFINISHED WOOD HOLLOW CORE | TIMELY METAL JAMB BROWNTONE | 4 1/2" | N/A | 3068 | 37 1/2" x 81 1/4" | N/A | LEGACY OAK | N/A | N/A | PRIVACY LEVER, TELL GRADE 3 | N/A | N/A | HINGES & WALL MOUNT STOPS |

WINDOWS:

| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
|-----|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|--|--|
| 7 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4030 | 48" x 36" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM WITH ADA WAND, COLOR TO BE: (C205 WHITE SATIN) | HEADER AT 81" A.F.F. HANDLE @ BOTTOM OF WINDOW |
| 2 | B | WHITE VINYL VERTICAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 2040 | 24" x 48" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM WITH ADA WAND, COLOR TO BE: (C205 WHITE SATIN) | HEADER AT 81" A.F.F. |

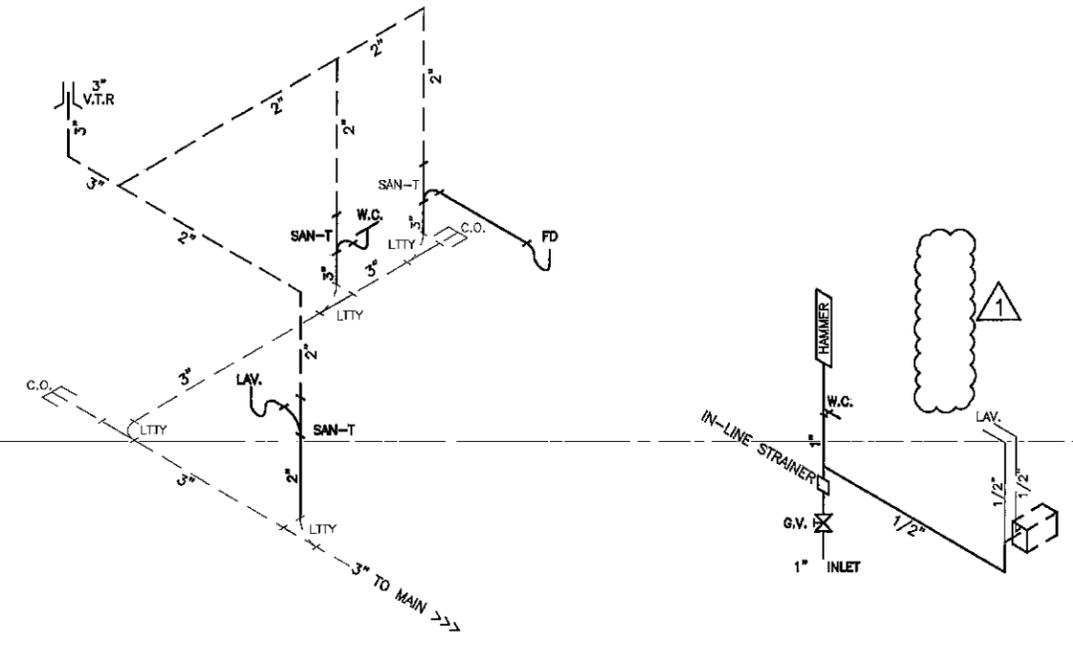
PLUMBING SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|--------|---|----------|
| | FLOOR MNT'D ELONGATED BOWL FOR HANDICAPPED (KOHLER K-4405) w/ TOILET SEAT (KOHLER K-4731-C 0), FLUSHOMETER (ROYAL MODEL 111-1.28 / 3910168) HANDLE ON OPEN SIDE, LOW FLOW | 1 |
| | ONE SET GRAB BARS, INCLUDES: (1) 36" LONG & (1) 42" LONG, MOUNTED @ 34" A.F.F. (INCLUDE 18" LONG GRAB BAR) | 1 SET(S) |
| | TOILET PAPER HOLDER (NO BRAND SPECIFIED) | 1 |
| | WALL HUNG LAVATORY W/ 29" SPACE UNDERNEATH RIM FOR HANDICAPPED (KOHLER K-2007-0) w/ GOOSENECK FAUCET (OTO TEL151-D10ET #CP) | 1 |
| | 24"x36" S.S. FRAME MIRROR @ 38" A.F.F. (NO BRAND SPECIFIED) | 1 |
| | POINT OF USE WATER HEATER (EEMAX SP3512 120V - 3.5kW) | 1 |
| | 2" FLOOR DRAIN w/ TRAP GUARD (NO BRAND SPECIFIED) | 1 |
| | 3/4" WATER HAMMER ARRESTOR | 1 |

STRUCTURAL LEGEND

| | |
|--|---|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

HATCHING DENOTES:
 FULL HGT. SHEAR WALL w/ 1/4" OSB TO RAFTERS UNDER 1/2" VCG (TO CEILING LINE). SEE DETAIL 2/6.

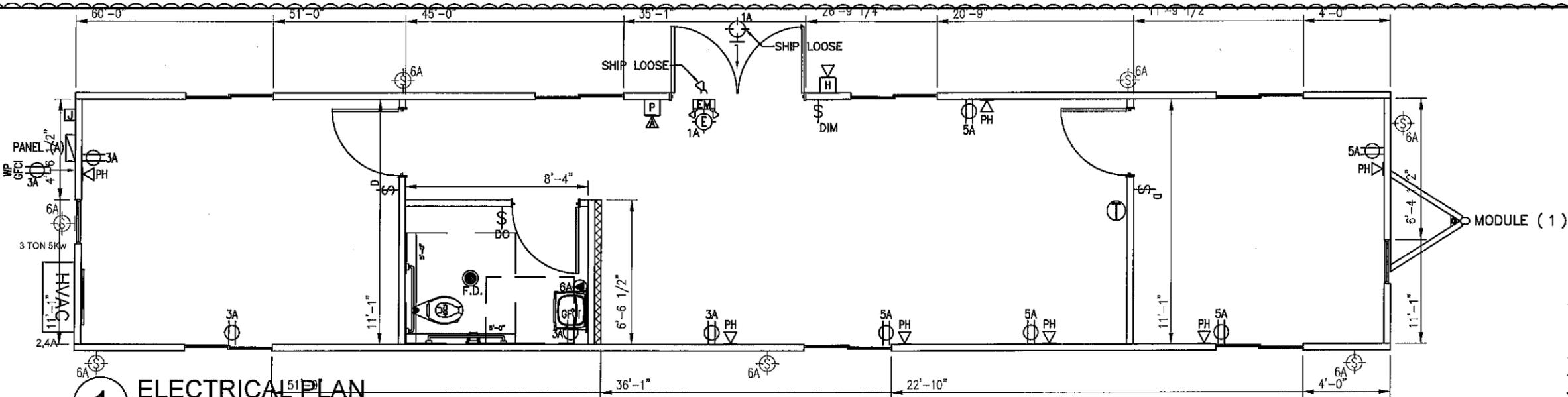


WASTE & VENT SCHEMATIC
 ALL PIPE TO BE ABS OR PVC SCHEDULE 40 AND WILL SLOPE 1/4" PER FOOT
 NOTE: PLUMBING MANIFOLD TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.

COLD & HOT SCHEMATIC
 MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 30 TO 45 PSI
 GREATEST DEVELOPED LENGTH 100'
 SUPPLY: COPPER (TYPE M) (OR PEX)

NOTE: 1. INCLUDE IN-LINE STRAINER
 2. INCLUDE (2) CALIFORNIA ADA RESTROOM SIGNS. (1) ON DOOR, (1) ON WALL.

FINAL RELEASE
 MAR 28 2018



1 ELECTRICAL PLAN
3/16"=1'-0"

PHOENIX MODULAR
5301 W. MADISON ST. - PHOENIX, AZ 85043
TEL 602-447-6460 FAX 602-447-6475
SUNBELT MODULAR, INC.
AMTEX | INDIAN | PHOENIX | M.R. STEEL | AMERIPAB

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DEALER:
DSMBI

PROJECT:
OFFICE

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3819-1260

DRAWN BY:
RH / BS

PLOT DATE:
3/28/2018

REV # / DATE:
#1 / 2-8-18 / AN
#2 / 2-22-18 / KN

| ELECTRICAL SCHEDULE | | | | |
|---------------------|---|-------|-----|----------------------|
| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
| PANEL | 125 AMP 1 PHASE 120/240V / 125 AMP MAIN, 6" A.F.F. TO BOTOF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | |
| J | 6x6x6 NEMA 3R J-BOX SEMI-RECESSED MNT'D @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊕ | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | |
| ⊕ | HARD WIRED SINGLE GANGED J-BOX FOR WATER HEATER @ 18" A.F.F. W/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 1 | |
| ⊕ | GFCI GROUND FAULT CIRCUIT INTERRUPT RCPT. W/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | |
| ⊕ | DUPLEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 8 | |
| ⊕ | 4x4 J-BOX @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ SGL. MUD RING AND COVER PLATE | IVORY | 7 | FOR FUTURE TELEPHONE |
| ⊕ | 2x4-LED FIXTURE, RECESSED, DIFFUSED (NO BRAND SPECIFIED) | N/A | 8 | DIMMABLE |
| ⊕ | DIMMING SWITCH W/COVER PLATE @ 46" A.F.F. U.N.O. (LUTRON DTVT OR EQUAL) | IVORY | 1 | |
| ⊕ | CEILING MNT'D OCCUPANCY SENSOR (C1205) w/ POWER PACK (BZ-50) WATTSTOPPER OR EQUAL | WHITE | 1 | SINGLE |
| ⊕ | WALL MNT'D DIMMING/OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. LUTRON MS-Z101 (OR EQUAL) | IVORY | 2 | |

| ELECTRICAL SCHEDULE | | | | |
|--|---|-------|-----|----------------------------------|
| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
| ⊕ | WALL MNT'D DUAL RELAY OCCUPANCY SENSOR @ 46" A.F.F. (PW200-1 OR EQUAL) | IVORY | 1 | |
| ⊕ | 70CFM FAN/LIGHT COMBO BRAND: BROAN 679 (OR EQUAL) | N/A | 1 | VENT THRU WALL 15W LED BULB |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 90" A.F.F. | N/A | 1 | SHIP LOOSE REMOTE HEAD |
| ⊕ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 1 | w/ PHOTOCELL ON LIGHT SHIP LOOSE |
| ⊕ | 2x4 J-BOX @ 48" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE | IVORY | 1 | FOR FUTURE PULL STATION |
| ⊕ | 4x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 1 | FOR FUTURE AUDIO VISUAL |
| ⊕ | 2x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | METAL | 1 | FOR FUTURE EXT. HORN |
| ⊕ | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 7 | FUTURE EXT. LIGHT |
| RACEWAY: MC/FLEX | | | | |
| NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE. 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF. 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.) | | | | |

| 125 AMP 120/240 1 PHASE PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R) | | | | | | | | | |
|--|--|---------|-----|-------|------|-------|---------|-----------------------------------|----|
| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
| 12 | (8) LED, (1) Fan/Lite, (8) Porch, (1) Em/Ex Lights | 1 | 20 | 721 | | 60 | 2 | HVAC Unit 3 Ton w/ 5Kw Heat Strip | 6 |
| 12 | (1) WP GFCI, (1) GFCI, (3) Duplex Receptacles | 3 | 20 | 900 | 6600 | 2 | 4 | Insta-Hot Water Heater (Single) | 10 |
| 12 | (5) Duplex Receptacles | 5 | 20 | 900 | 3000 | 30 | 6 | | |
| | Space | 7 | | | | | 8 | Space | |
| | Space | 9 | | | | | 10 | Space | |
| | Space | 11 | | | | | 12 | Space | |
| | | | | 11221 | 7500 | Total | | | |

ELECTRICAL CALCULATION:

GENERAL LIGHTING:
587 SqFt x 3.5 x 1.25 = 2568 watts
10 RECEPTACLES = 1800 watts
1 HVAC UNITS = 13200 watts
1 WATER HEATER = 3000 watts

PANEL A
TYPE OF PANEL: LOAD CENTER

20568 watts divide by 240volts = 85.7 AMPS TOTAL

FINAL RELEASE

MAR 28 2018

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C208
PHOENIX, AZ, 85029
(602) 327-4769

SHEET:
4
OF
7

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DEALER:
 DSMBI

PROJECT:
 OFFICE

STATES:
 CALIFORNIA

SERIAL NUMBERS:
 PMI-3819-1260

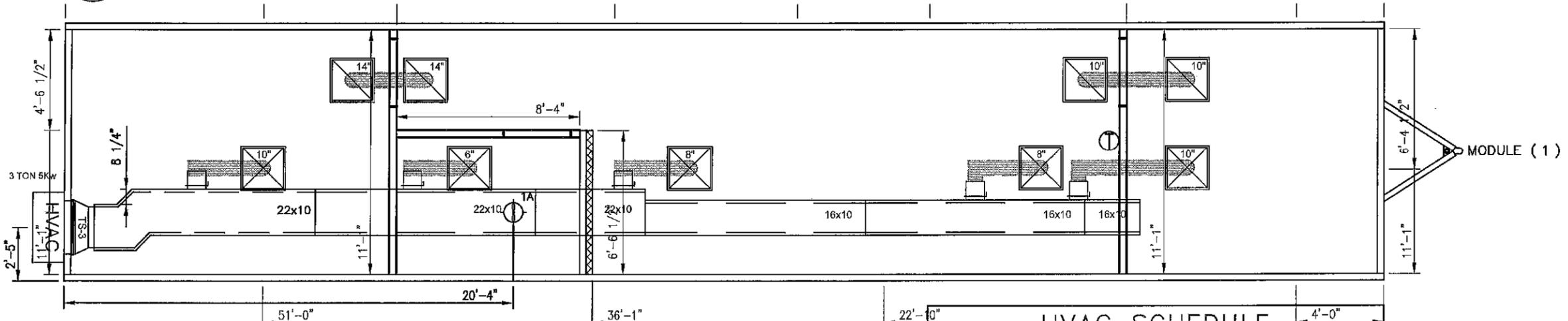
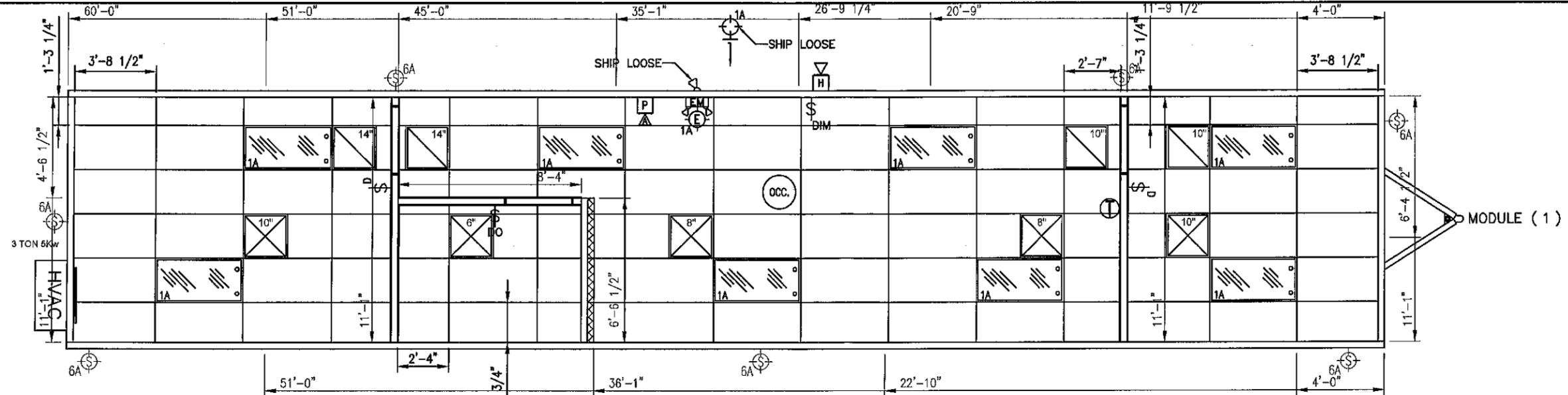
DRAWN BY:
 RH / BS

PLOT DATE:
 3/28/2018

REV # / DATE:
 #1 / 2-8-18 / AN
 #2 / 2-22-18 / KN

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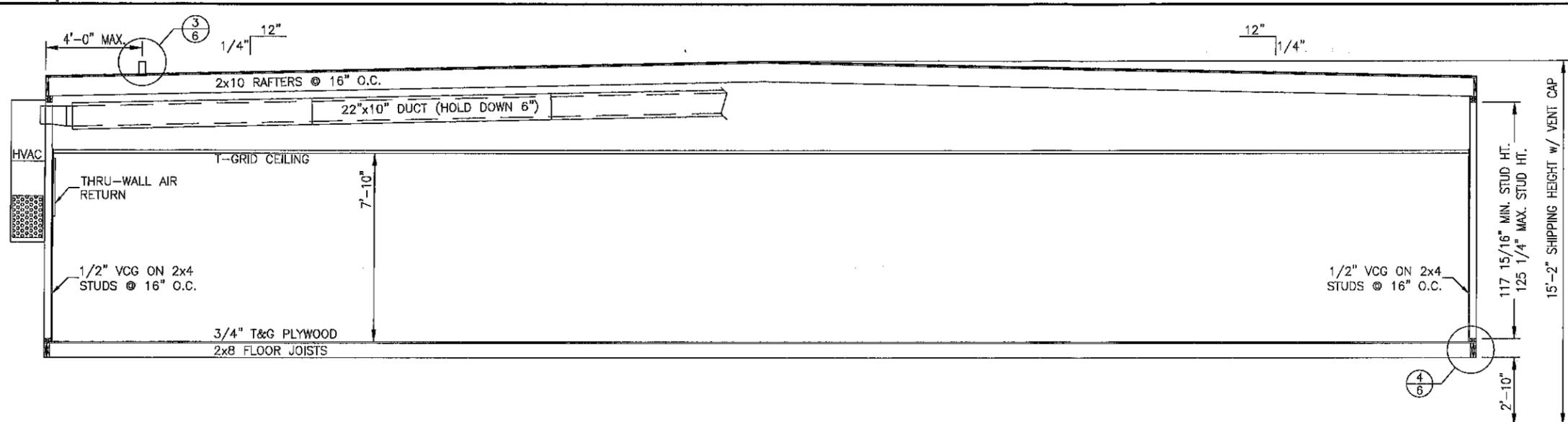
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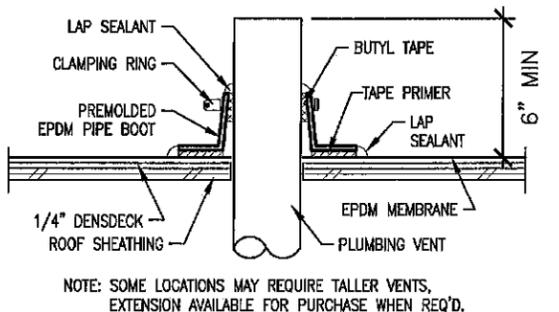
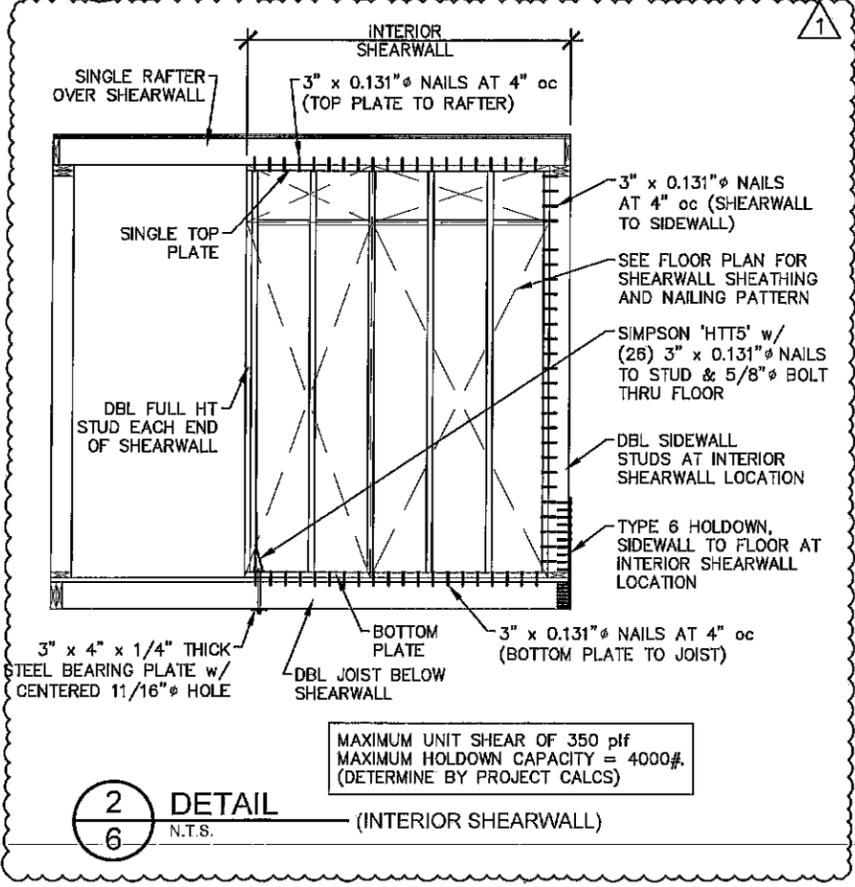
| SYM | DESCRIPTION | QTY |
|-----|---|------|
| | 3 TON HP W/ 5 kw HEAT STRIP (F.A.D.) MERV 8 FILTER MODEL # (W36HA-A05) OR EQUAL | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 16" COLLAR W/ SCOOP & DAMPER 6" FLEX. 6" START COLLAR. | 1 |
| | 28"x14" STAMP FACED THRU WALL AIR GRILL w/ 29" x 15" x 4" TAP-IN (RETURN) NO BRAND SPECIFIED. | 1 |
| | 22"x10"x10'-0" FIBERGLASS DUCT. | 2.50 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 2.25 |
| | 24"x24" 4-WAY THROW DIFFUSER. 6" COLLAR W/ SCOOP & DAMPER 6" FLEX. 6" START COLLAR. | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 8" COLLAR W/ SCOOP & DAMPER 8" FLEX. 8" START COLLAR. | 2 |
| | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 2 |
| | (2) 24"x24" RETURN AIR GRILLS w/ (2) 10" COLLAR, 10" FLEX. | 1 |
| | (2) 24"x24" RETURN AIR GRILLS w/ (2) 14" COLLAR, 14" FLEX. | 1 |

NOTE: FLEX DUCT LENGTHS NOT TO EXCEED 5'
 HOLD DUCT DOWN 6" FOR SPRINKLERS

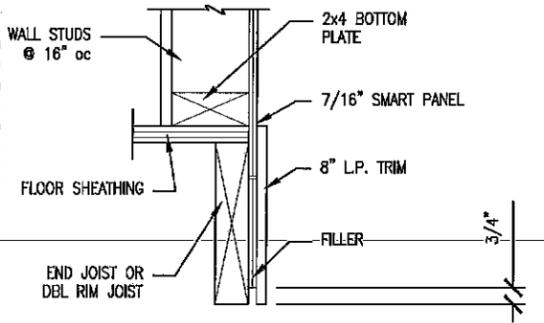
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 MAR 28 2018



1 CROSS SECTION
3/16"=1'-0"



3 DETAIL
N.T.S. (PLUMBING VENT-FACTORY INSTALLED)



4 DETAIL
N.T.S. (WALL FINISH @ CHASSIS)

MAXIMUM UNIT SHEAR OF 350 pcf
MAXIMUM HOLDOWN CAPACITY = 4000#.
(DETERMINE BY PROJECT CALCS)

PHOENIX MODULAR
5301 W. MADISON ST. - PHOENIX, AZ 85043
PH: 602-447-6460 FAX: 602-447-6476

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DEALER:
DSMBI

PROJECT:
OFFICE

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3819-1260

DRAWN BY:
RH / BS

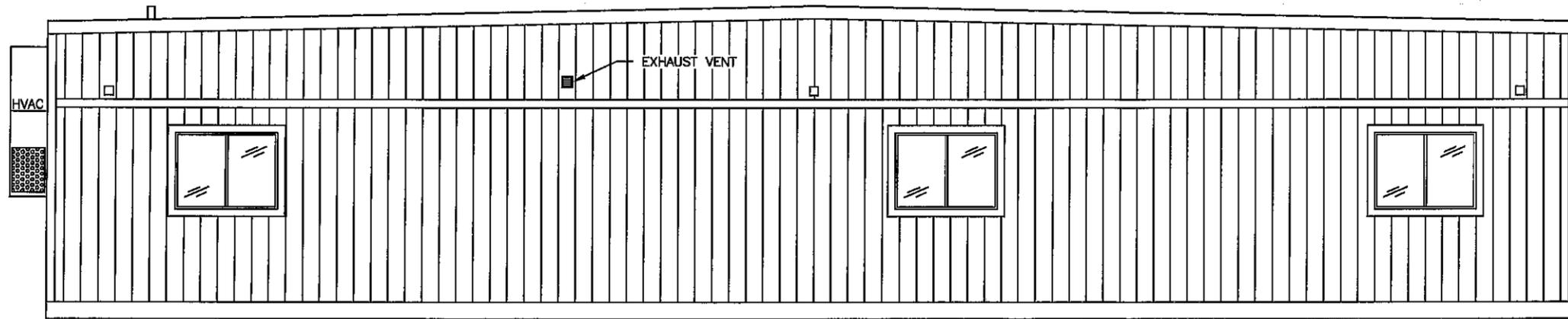
PLOT DATE:
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REV # / DATE:
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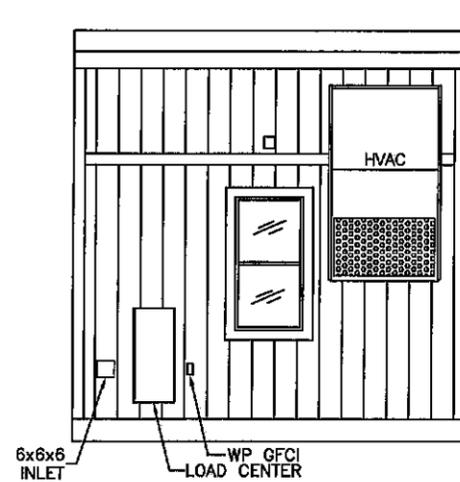
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MAR 28 2018

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CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C206
PHOENIX, AZ 85029
(602) 327-4769

SHEET:
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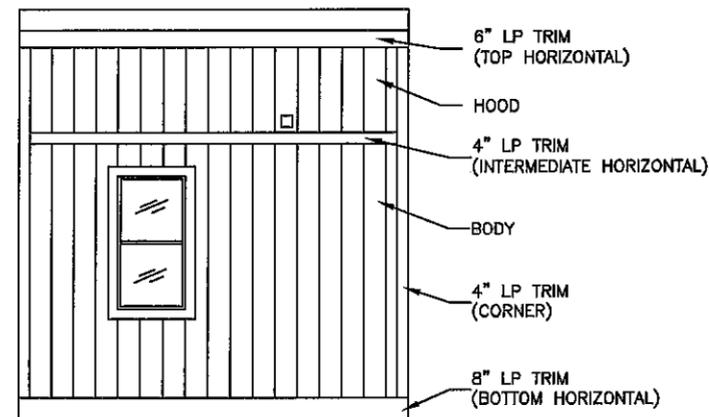
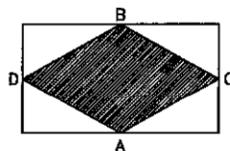


ELEVATION 'B'

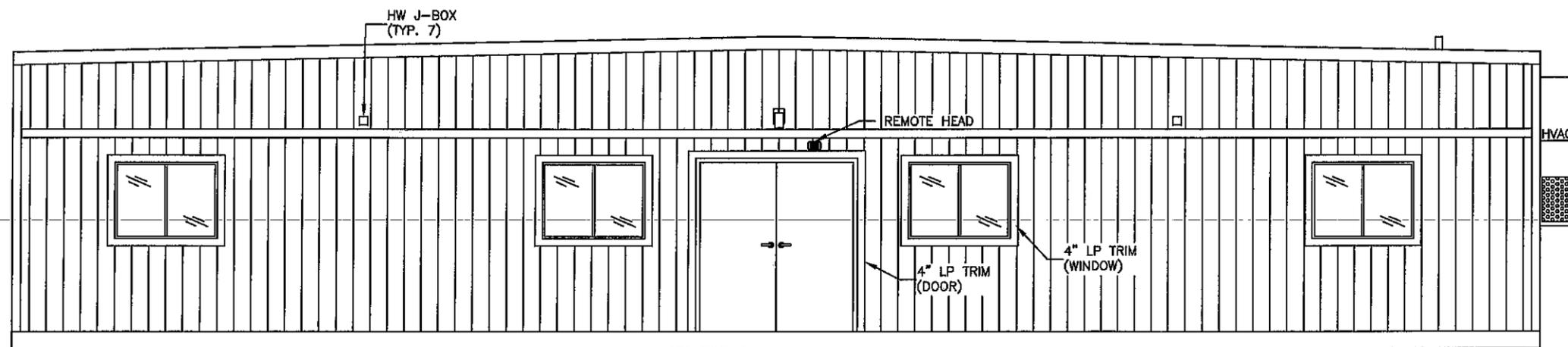


ELEVATION 'D'

15'-2" SHIPPING HEIGHT w/ PLUMBING VENT



ELEVATION 'C'



ELEVATION 'A'

PHOENIX MODULAR

SUNBELT MODULAR, INC.
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 P.E. 602-447-6460 FAX 602-447-6476
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DEALER:
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 CALIFORNIA

SERIAL NUMBERS:
 PMI-3819-1260

DRAWN BY:
 RH / BS

PLOT DATE:
 3/28/2018

REV # / DATE:
 #1 / 2-8-18 / AN
 #2 / 2-22-18 / KN

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ 85029
 (602) 327-4769

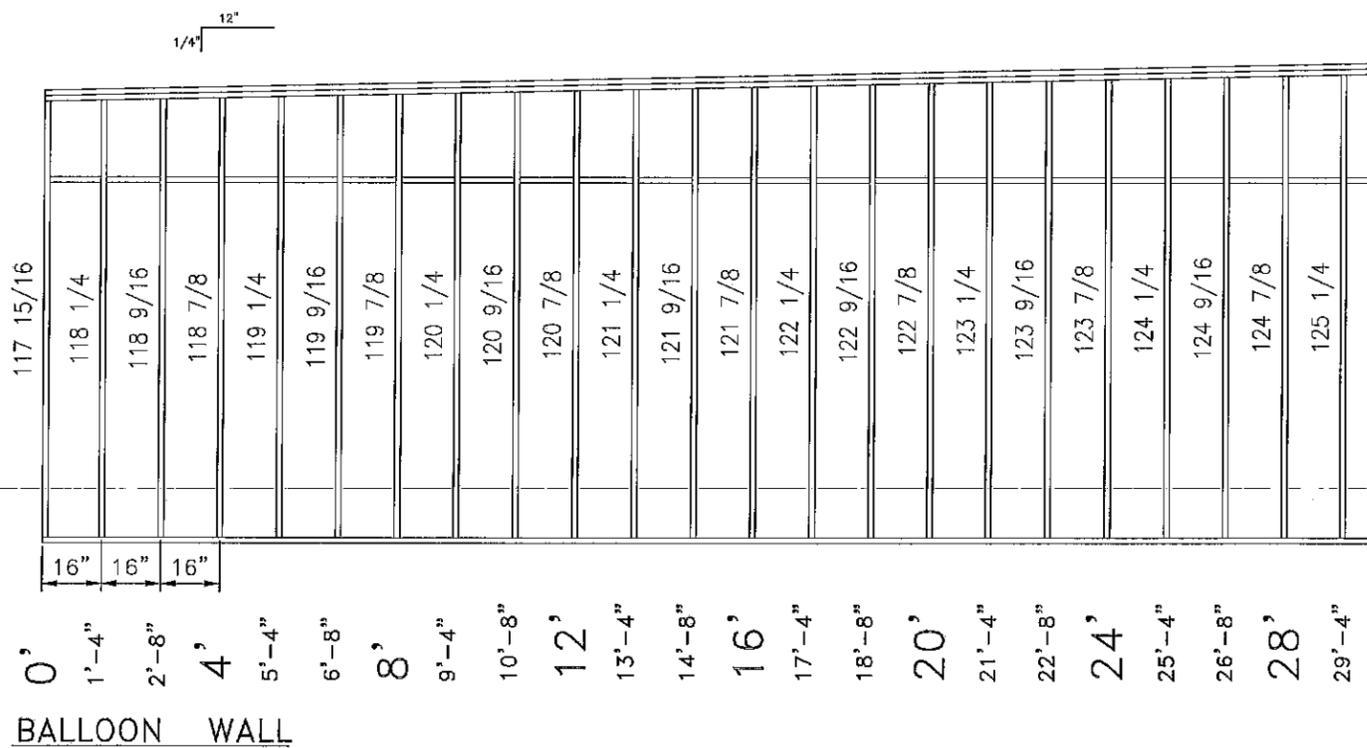
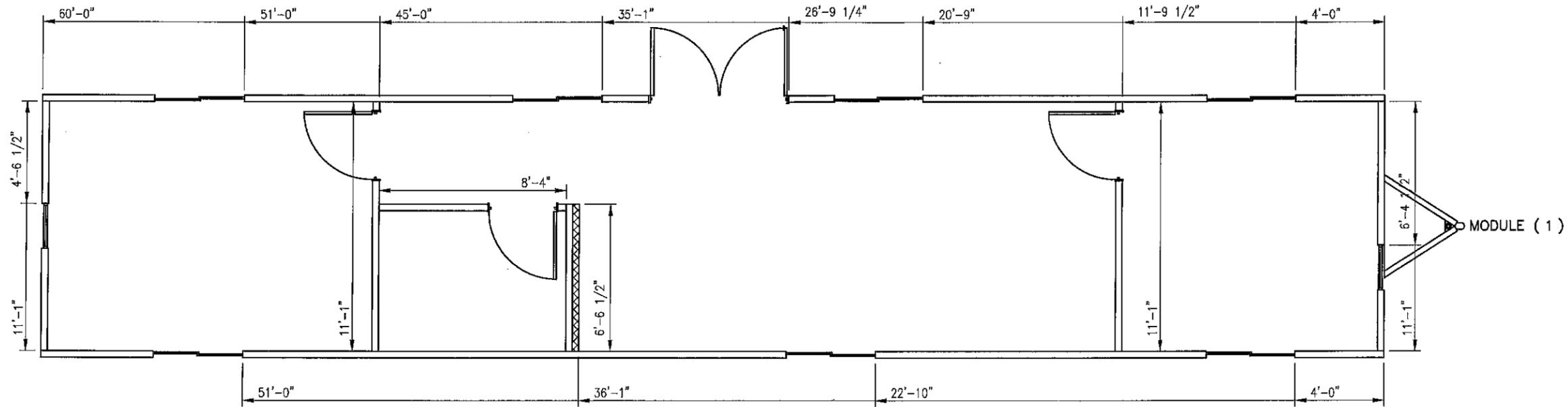
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MAR 28 2018

SHEET:

7
 OF
 7





PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH: 602-447-5660 FAX: 602-447-6676

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DEALER:
 DSMBI

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STATES:
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 PMI-3819-1260

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 RH / BS

PLOT DATE:
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 #2 / 2-22-18 / KN

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R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11226 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ, 85029
 (602) 327-4769

SHEET:
BW
 OF
7

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 PHOENIXMODULAR.COM
 (SEE WEBSITE FOR WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
 BUILDING SQ.FT. 160
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. B
 OCCUPANCY LOAD. 2
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOWLOAD. 20 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC, 2016 CA Energy, & CBC Chapter 11B Accessibility

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 880 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
 2. EXPLANATION OF BUILDING USE. OFFICE
 3. SET TYPE PAD/PIER ABOVE GRADE

NOT INCLUDED IN SCOPE OF WORK:

- PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
- PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
- ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
- NOT USED
- NOT USED
- ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
- THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

- SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
- SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
- COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
- TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
- THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

DRAWING INDEX

SHEET 1: COVER SHEET
 SHEET 2: SPECIFICATIONS AND CONDITIONS, HVAC LEGEND, ELECTRICAL LEGEND.
 SHEET 3: FLOOR PLAN, ELECTRICAL PLAN, REFLECTED CEILING PLAN, HVAC PLAN
 SHEET 4: ELEVATIONS, BUILDING CROSS-SECTION ELECTRICAL CALCS, DETAILS.

DEALER:
DESIGN SPACE MODULAR BUILDINGS

PROJECT:
Office
8'(9')-0" x 20'-0"
PMI-3820-920

MANUFACTURED BY:



5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476

FINAL RELEASE
 MAR 28 2018

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
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DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: OFFICE

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3820-920

DRAWN BY: RM/BS

PLOT DATE: 1/9/2018

REV # / DATE:
 #1 / PR1 / 02/13/2018
 #2 / PR2 / 02/22/2018
 #3 / PR3-4 / 02/27/18
 #4 / PR 5 / 03/15/18

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

SHEET: **1** OF **4**

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (1) EA
 Size: 8'-0" x 20'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Main Rails @ 65 1/2 in. O.C.
 Beam Size: 10 in. Jr. I-beam
 Axles: Tandem 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
 Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 89-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. (T&G).
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
 Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
 Item 1: See detail (7/4) for exterior shearwall detail.

ROOF CONSTRUCTION:

Roof Type: Shed (See elevations for roof slope direction)
 Roof Slope: 1/4 to 1/2
 Rafter size: 2X10 #2 HF equal or better
 Rafter Length: 93 in.
 Spacing: 16 in. O.C.
 Insulation: R-38 Cathedral unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:
 Item 1: N/A

FINISHES:

FLOOR COVERING:
 Type 1: 0.080 Linoleum
 Location: THROUGHOUT
 Color to be: WHITE CLIFF (88702)

BASE:
 Cove Base 1: 4 in. vinyl cove.
 Location: THROUGHOUT
 Color to be: GRAY

WALLS:
 Covering 1: 1/2 in. vinyl covered gypsum
 Location: THROUGHOUT
 Color to be: TIKI GRASS CHALK

TRIM:
 Wall Trim 1: Vinyl Covered trim
 Color to be: (To match VCG)

CEILING:
 Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Armstrong Tile #769A or Equal)
 Height: 7'-10"

EXTERIOR:
 Sliding body: Color: (BUTTERSCOTCH) 8 ft. sheets
 Hood: Color: (BUTTERSCOTCH)
 Corner trim: Color: (BUTTERSCOTCH)
 Door & window trim: Color: (BUTTERSCOTCH)
 Bottom horizontal trim: Color: (BUTTERSCOTCH)
 Intermediate horizontal trim: Color: (BUTTERSCOTCH) separates hood & body
 Top horizontal trim: Color: (BUTTERSCOTCH)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: (SEE WINDOW SCHEDULE)

CLOSEUP:

Type: Single Unit
 Notes: Module NOT TO exceed 9'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

| HVAC SCHEDULE | | |
|---|---|-----|
| SYM | DESCRIPTION | QTY |
| | 1.5 TON HP W/ 4 kw HEAT STRIP (F.A.D.) NOTE: HVAC UNIT TO HAVE MERV 8 AIR FILTER MODEL # (W18H2-A04) OR EQUAL | 1 |
| | 21"x9" TO 16"x10" GALV. SLEEVE 16" LONG | 1 |
| | 20"x12" STAMP FACED THRU WALL AIR GRILL w/ 21" x 13" x 4" TAP-IN (RETURN) (NO BRAND SPECIFIED) | 1 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 1.5 |
| | 24"x24" 4-WAY THROW DIFFUSER, 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 2 |
| NOTE: 1. INSTALL HVAC DUCT DOWN 6" FROM RAFTER. | | |

| ELECTRICAL SCHEDULE | | | | | |
|--|--|-------|-----|-------------------------------|--|
| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS | |
| | 125 AMP 1 PHASE 120/240 W/125 AMP MAIN, 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | | |
| | 6x6x6 NEMA 3R J-BOX SEMI-RECS. MNT'D @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET | |
| | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | 20 AMP | |
| | DUPLEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 5 | 20 AMP | |
| | WALL MNT'D DIMMING/OCCUPANCY SENSOR w/ COVER PLATE @ 46" A.F.F. LUTRON MS-2101 (OR EQUAL) | IVORY | 1 | | |
| | 2x4 LED FIXTURE, RECESSED, DIFFUSED. (NO BRAND SPECIFIED) | N/A | 2 | | |
| | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 2 | w/ PHOTOCELL ON LIGHT | |
| | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 90" A.F.F. | N/A | 1 | OCTAGONAL BOX FOR REMOTE HEAD | |
| | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) | |
| | 4x4 J-BOX @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ SCL. MUD RING AND COVER PLATE | IVORY | 1 | FOR FUTURE TELEPHONE | |
| | 4x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO VISUAL | |
| | 2x4 HW J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 2 | FOR FUTURE PULL STATION | |
| | NOT USED | | | | |
| RACEWAY | MC/FLEX | | | | |
| NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE. 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF. 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.) | | | | | |

PHOENIX MODULAR

3301 W. MADISON ST. - PHOENIX, AZ 85043
 PH: 602-447-6460 FAX: 602-447-6476

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DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: OFFICE

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3820-920

DRAWN BY: RM/BS

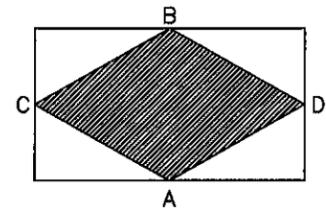
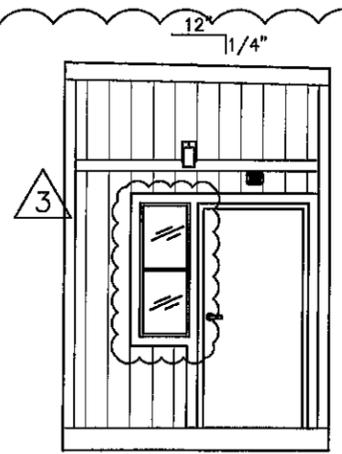
PLOT DATE: 1/9/2018

REV # / DATE:
 #1 / PR1 / 02/13/2018
 #2 / PR2 / 02/22/2018
 #3 / PR3-4 / 02/27/18
 #4 / PR 5 / 03/15/18

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 11225 N. 26TH DR., BLDG. C, #C208
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 (602) 327-4789

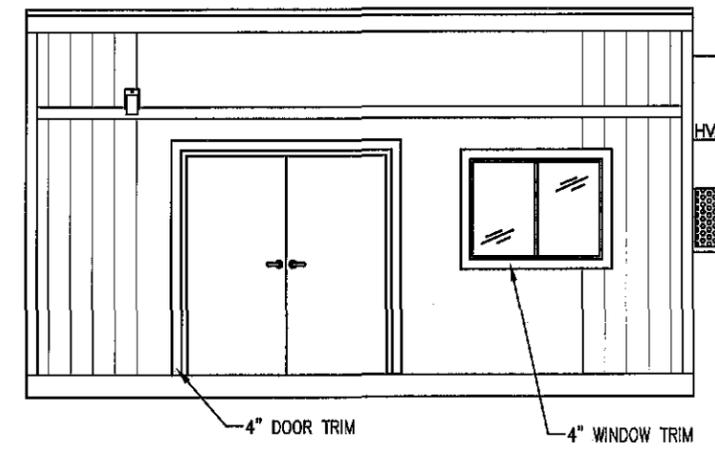
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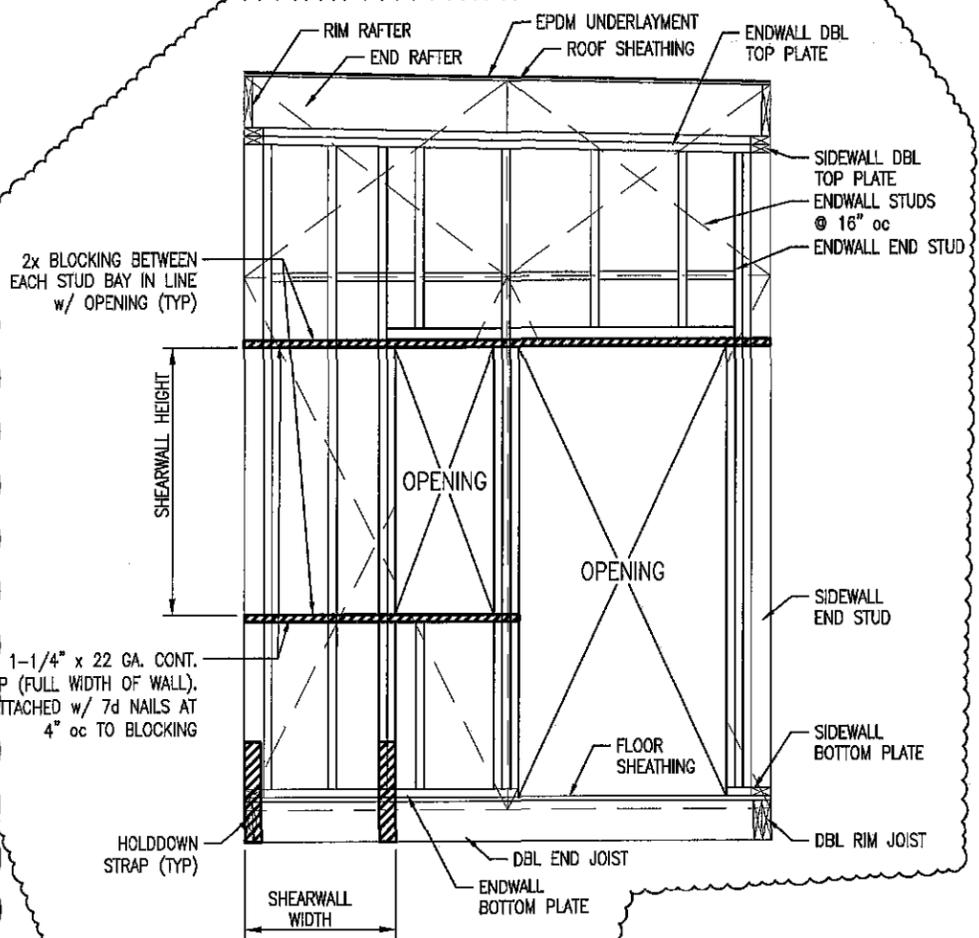


ALL EXTERIOR PAINT TO BE SATIN

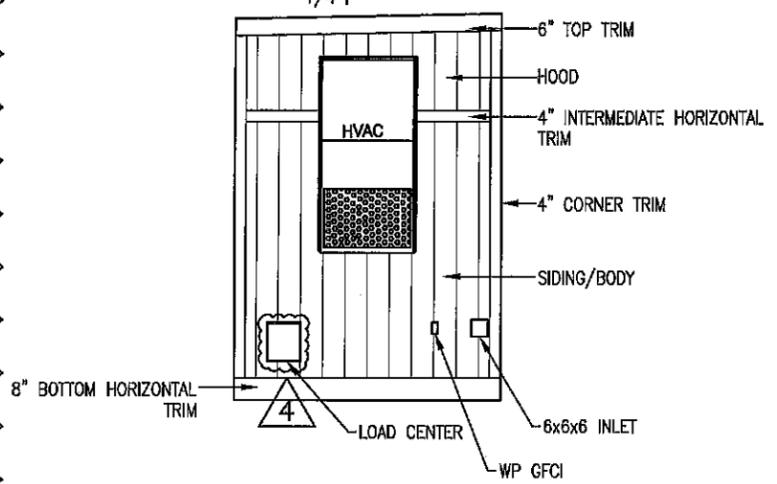
1 ELEVATION 'A'
3/16"=1'-0"



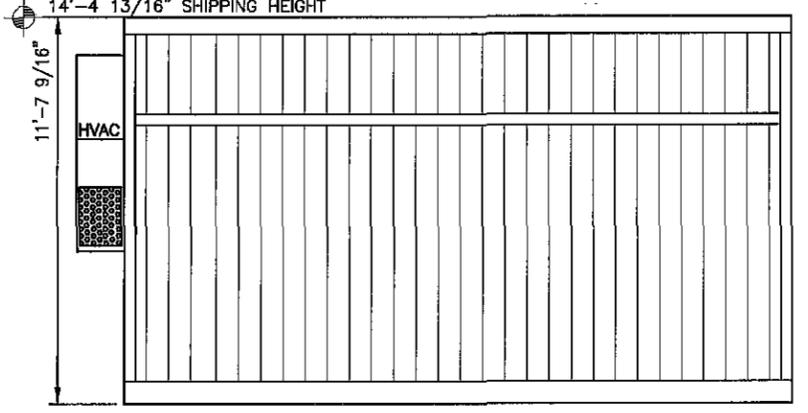
2 ELEVATION 'D'
3/16"=1'-0"



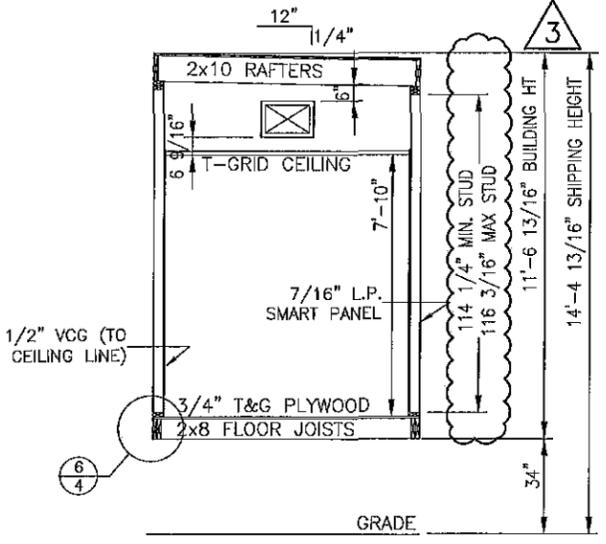
7 SHEARWALL DETAIL
N.T.S.



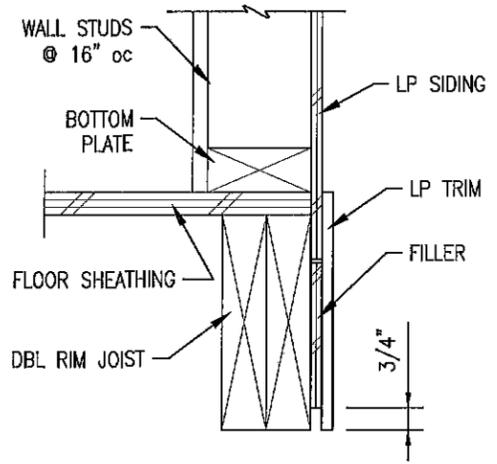
3 ELEVATION 'B'
3/16"=1'-0"



4 ELEVATION 'C'
3/16"=1'-0"



5 CROSS SECTION
3/16"=1'-0"



6 WALL FINISH @ FLOOR
N.T.S.

125 AMP 120/240 1 PHASE
EXTERIOR SURFACE MOUNT PANEL W/ 125 amp MAIN BRKR

| DESCRIPTION | CIR | BRK | WS | A | B | WS | BRK | CIR | DESCRIPTION |
|-------------|-----|-----|----|------|------|-----|-----|-----|---|
| HVAC UNIT | 1 | 40 | #8 | 4440 | 201 | #12 | 20 | 2 | (1) EM/EXIT (2) LIGHTS, (2) PORCH LIGHTS |
| | 3 | 2 | #8 | 4440 | 1080 | #12 | 20 | 4 | (1) WP GFCI RECEPTACLE (5) DUPLEX RECEPTACLES |
| SPACE | 5 | | | | | | | 6 | SPACE |
| SPACE | 7 | | | | | | | 8 | SPACE |
| SPACE | 9 | | | | | | | 10 | SPACE |
| SPACE | 11 | | | | | | | 12 | SPACE |

ELECTRICAL CALCULATIONS: LOAD CENTER 'A'

GENERAL LIGHTING: 144 sq/ft x 3.5 x 1.25 = 630w
 (1) HVAC UNIT = 8880w
 (6) RECPTS. = 1080w

10590w ÷ 240v = 44 AMPS TOTAL

PHOENIX MODULAR
SUNBELT MODULAR, INC.
5300 W. MADISON ST., PHOENIX, AZ 85043
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ANEXEL I. PRODUCTIONS I. PRODUCTIONS I. NER. STEEL I. AMERIFAB

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DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: OFFICE

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3820-920

DRAWN BY: RMBS

PLOT DATE: 1/9/2018

REV # / DATE:
#1 / PR1 / 02/13/2018
#2 / PR2 / 02/22/2018
#3 / PR3-4 / 02/27/18
#4 / PR 5 / 03/15/18

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1125 N. 28TH DR., BLDG. C, #C206
PHOENIX, AZ 85029
(602) 327-4769

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SHEET: 4 OF 4

| | | | |
|--|--|--|--|
| MANUFACTURER: | | NOT INCLUDED IN SCOPE OF WORK: | |
| MANUFACTURER & ADDRESS PHOENIX MODULAR 5301 W. MADISON ST. PHOENIX, AZ. 85043 PHOENIXMODULAR.COM <small>(SEE WEBSITE FOR WARRANTY INFORMATION)</small> | | 1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT 2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT 3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE 4. NOT USED 5. NOT USED 6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR 7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL | |
| DESIGN CRITERIA / LOADS: | |  | |
| NO OF MODULES. 1 BUILDING SQ.FT. 160 TYPE OF CONSTRUCTION. VB OCCUPANCY USE GROUP. B OCCUPANCY LOAD. 2 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor) ROOF LIVE LOAD. 20 psf. ROOF SNOW LOAD. 20 psf. WIND LOAD. 2016 CBC - 115 MPH, EXP. C OCCUPANCY/RISK CATG. II SEISMIC Ss=3.730, S1=1.389 Site Class 'D' Design Category 'E' PERMISSIBLE GAS TYPE. N/A CLIMATE ZONE. 3 NAME AND DATE OF CODES: CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC, 2016 CA Energy, & CBC Chapter 11B Accessibility | | | |
| SPECIAL CONDITIONS AND OR LIMITATIONS: | | IDENTIFICATION: | |
| SPRINKLERS REQUIRED. YES INSTALLED AT. FACTORY CONTRACTED BY. DEALER INSTALLED BY. SUMMIT FIRE PROTECTION | | DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE. | |
| STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING | | NOTES: | |
| 1. PROPOSED ADDRESS <u>680 BRYANT STREET</u> AND/OR LOCATION OF UNIT. <u>SAN FRANCISCO, CA 94107</u> 2. EXPLANATION OF BUILDING USE. <u>OFFICE</u> 3. SET TYPE <u>PAD/PIER ABOVE GRADE</u> | | 1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS. 2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED. 3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS. 4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) <u>NO</u> 5. TO BE INSTALLED ON A PERMANENT FOUNDATION? <u>NO</u> 6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25. | |

| DRAWING INDEX | |
|---------------|--|
| SHEET 1: | COVER SHEET |
| SHEET 2: | SPECIFICATIONS AND CONDITIONS, FLOOR PLAN LEGEND, ELECTRICAL LEGEND, HVAC LEGEND |
| SHEET 3: | FLOOR PLAN, ELECTRICAL PLAN, REFLECTED CEILING PLAN, HVAC PLAN, ELECTRICAL CALCS |
| SHEET 4: | ELEVATIONS, DETAILS. |
| SHEET 5: | PLUMBING ISOS, BUILDING CROSS SECTION, INTERIOR ELEVATIONS. |

DEALER:
DESIGN SPACE MODULAR BUILDINGS

PROJECT:
Laundry Room
8'(9')-0" x 20'-0"
PMI-3821-920

MANUFACTURED BY:
PHOENIX MODULAR
5301 W. MADISON ST. - PHOENIX, AZ 85043
PH 602-447-6460 FAX 602-447-6476

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| | |
|--|--|
|  <small>5301 W. MADISON ST. - PHOENIX, AZ 85043 PH 602-447-6460 FAX 602-447-6476</small> |  <small>SUNBELT MODULAR, INC. AMERICA INDOOR PERFORM MAR STEEL AMERICA'S</small> |
| THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION. | |
| DEALER: DESIGN SPACE MODULAR BUILDINGS | |
| PROJECT: LAUNDRY ROOM | |
| STATES: CALIFORNIA | |
| SERIAL NUMBERS: PMI-3821-920 | |
| DRAWN BY: RM/BS | |
| PLOT DATE: 1/9/2018 | |
| REV # / DATE: #1 02/13/2018 #2 02/23/2018 #3 03/15/2018 --- --- --- --- --- | |
| R. MARK STEELE, P.E. CORPORATE ENGINEER SUNBELT MODULAR, INC 11225 N. 28TH DR., BLDG. C, #C206 PHOENIX, AZ. 85029 (602) 327-4769 | |
| SHEET: <div style="font-size: 2em; font-weight: bold; margin: 0;">1</div> OF <div style="font-size: 2em; font-weight: bold; margin: 0;">5</div> | |

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (1) EA
 Size: 8'-0" x 20'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Main Rails @ 65 1/2 in. O.C.
 Beam Size: 10 in. Jr. I-beam
 Axles: Tandem 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:

Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 89-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. (T&G).
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:

Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: N/A

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
 Top plate: Single 2X4 #2 HF equal or better (Double as needed)
 Boltom plate: Single 2X4 #2 HF or better bottom plate
 Stud length: 92-5/8 in. (Ceiling Ht.)
 Insulation: N/A

Additional Interior Wall Items Included in Quoted Price:

Item 1: Provide removable cover for water heater (See floor plan for location).
 Item 2: See detail (2/5) for plumbing wall framing.

ROOF CONSTRUCTION:

Roof Type: Complex
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 Rafter Length: 93 in.
 Spacing: 16 in. O.C.
 Insulation: R-38 Cathedral unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:

Item 1: N/A

FINISHES:

FLOOR COVERING

Type 1: 0.080 Linoleum
 Location: THROUGHOUT
 Color to be: WHITE CLIFF (88702)

BASE

Cove Base 1: 6 in. vinyl cove.
 Location: THROUGHOUT
 Color to be: GRAY

WALLS

Covering 1: FRP panels over 1/2 in. MR gypsum (Ceiling height)
 Location: THROUGHOUT
 Color to be: WHITE

TRIM

Wall Trim 1: FRP trim (8")
 Color to be: WHITE

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Armstrong Tile #789A or Equal)
 Height: 7'-10"

EXTERIOR

Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
 Hood: Color: (MAJESTIC BLUE)
 Corner trim: Color: (MAJESTIC BLUE)
 Door & window trim: Color: (MAJESTIC BLUE)
 Bottom horizontal trim: Color: (MAJESTIC BLUE)
 Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
 Top horizontal trim: Color: (MAJESTIC BLUE)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: (SEE WINDOW SCHEDULE)

CLOSEUP:

Type: Single Unit
 Notes: Module NOT TO exceed 9'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

HVAC SCHEDULE

| SYM | DESCRIPTION | QTY |
|------|---|-----|
| HPND | 2 TON HP W/ 4 kw HEAT STRIP (F.A.D.) NOTE: HVAC UNIT TO HAVE MERV 8 AIR FILTER MODEL # (W24H2-A04) OR EQUAL | 1 |
| ⊗ | 21"x9" TO 16"x10" GALV. SLEEVE 16" LONG | 1 |
| | NOT USED | 1 |
| | 20"x12" STAMP FACED THRU WALL AIR GRILL w/ 21" x 13" x 4" TAP-IN (RETURN) (NO BRAND SPECIFIED) | 1 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 1.5 |
| ⊗ | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 2 |

NOTE: INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS.

PLUMBING SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|--------|--|-----|
| WB | PROVIDE (HOT/COLD) SUPPLY & (2) WASTE STUBS MOUNTED IN DUAL DRAIN WASHER BOX (GATEY 38201) @ 32" A.F.F. (FOR FUTURE WASHER AND DRYER) APPLIANCES SUPPLIED AND INSTALLED ON SITE BY OTHERS. | 4 |
| ● | 2" FLOOR DRAIN w/ TRAP GUARD. (NO BRAND SPECIFIED) | 1 |
| WH | 40 GAL. ELECTRIC WATER HEATER (240v) EACH WATER HEATER TO INCLUDE: - WATER TIGHT PAN WITH A 3/4" DRAIN. - EXPANSION TANK - INSULATION (R3.7 MIN) ALL - SEISMIC STRAPS (NO BRAND SPECIFIED) | 1 |
| ⊗ | JANITOR'S SINK w/ LEGS & FAUCET. SINK BRAND: FLORESTONE FM-3 FAUCET BRAND: DELTA 2131LF | 1 |

NOTE: 1. INCLUDE IN-LINE STRAINER

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|---|-------|-----|--|
| PANEL | 200 AMP 1 PHASE 120/240 W/200 AMP MAIN, 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | 3 |
| □ | 30 AMP EXT. W/INT'D DISCONNECT MOUNTED @ 60" A.F.F. (U.N.O.) (SINGLE PHASE) | N/A | 1 | (240v) |
| ⊗ | 6x6x6 NEMA 3R J-BOX SEMI-RECSB. W/INT'D @ 18" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊗ | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | 20 AMP |
| ⊗ | DUPLEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 8 | 20 AMP |
| ⊗ | GROUND FAULT CIRCUIT INTERRUPT RCPT. W/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | 20 AMP |
| ⊗ | 220V RCPT. W/ COVER PLATE @ 80" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 4 | NEMA CONFIG: DRYER (10-30R) SEE DETAIL (2/5) |
| ⊗ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 1 | FUTURE EXT. LIGHT |
| ⊗ | WALL W/INT'D DUAL RELAY OCCUPANCY SENSOR w/ COVER PLATE @ 48" A.F.F. WATTSOPER PW-200 (OR EQUAL) | IVORY | 1 | |
| ⊗ | 2x4 LED FIXTURE, RECESSED, DIFFUSED. (NO BRAND SPECIFIED) | N/A | 2 | |
| ⊗ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 1 | w/ PHOTOCCELL ON LIGHT |
| ⊗ | WALL W/INT EMERGENCY LIGHT /w RED EXIT LIGHT W/INT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD W/INT. @ 90" A.F.F. | N/A | 1 | OCTAGONAL BOX FOR REMOTE HEAD |
| ⊗ | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) |
| ⊗ | 180 CFM CEILING EXHAUST FAN ONLY BRAND: BROWN 505 | N/A | 2 | |
| KIPH | 4x4 J-BOX @ 18" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY w/ SGL. MUD RING AND COVER PLATE | IVORY | 3 | FOR FUTURE TELEPHONE |
| ⊗ | 4x4 J-BOX @ 88" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY w/COVER PLATE U.N.O. | IVORY | 1 | FOR FUTURE AUDIO VISUAL |
| ⊗ | 2x4 HW J-BOX @ 48" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 1 | FOR FUTURE PULL STATION |
| | NOT USED | | | |

RACEWAY MC/FLEX

NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE.
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)

PHOENIX MODULAR

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DEALER:
 DESIGN SPACE MODULAR
 BUILDINGS

PROJECT:
 LAUNDRY ROOM

STATES:
 CALIFORNIA

SERIAL NUMBERS:
 PMI-3821-920

DRAWN BY:
 RM/BS

PLOT DATE:
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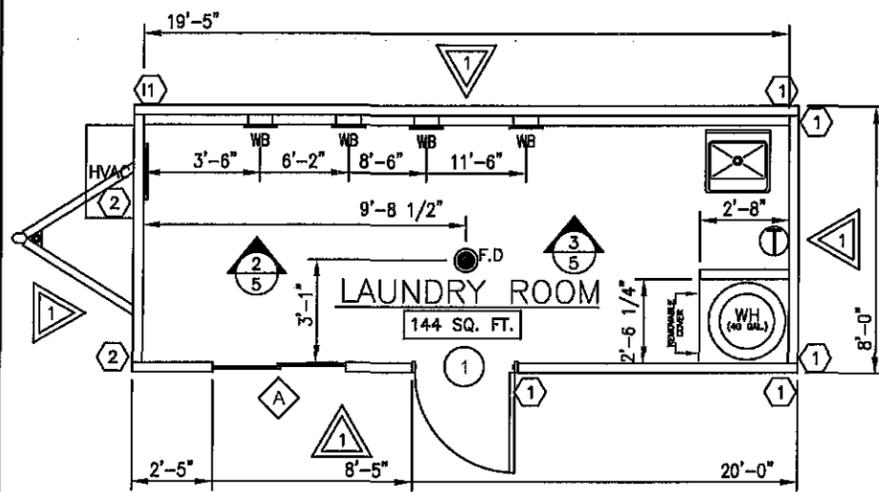
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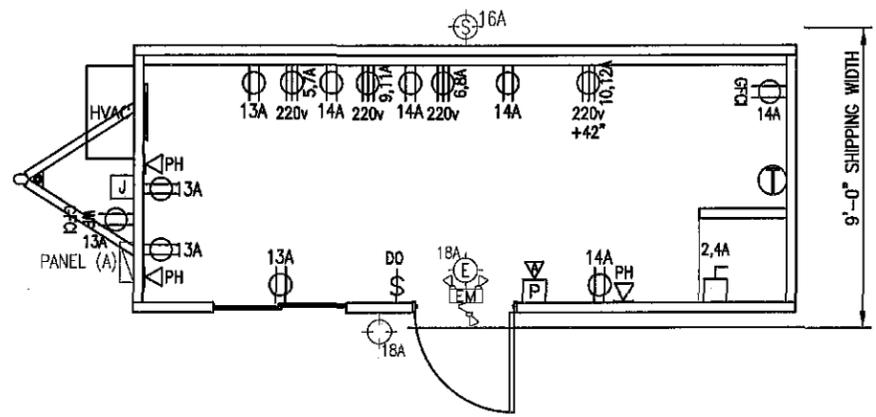
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MAR 28 2018



1 FLOOR PLAN
 3/16"=1'-0" SQUARE FOOTAGE - 160 S.F.
 OCCUPANCY LOAD = 2



2 ELECTRICAL PLAN
 3/16"=1'-0"

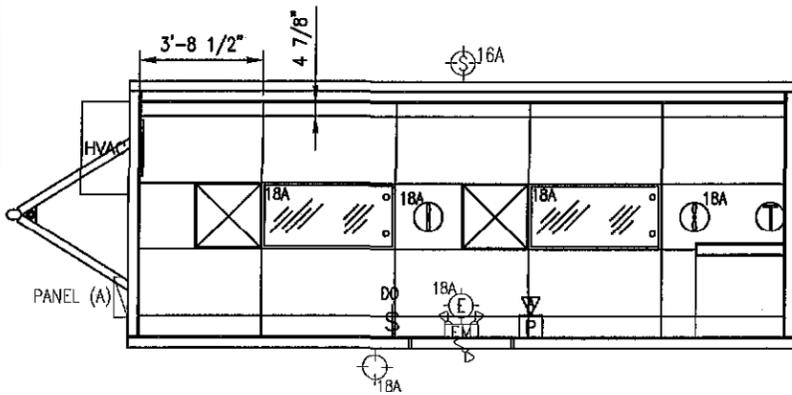
200 AMP 120/240 1 PHASE EXTERIOR SURFACE MOUNT PANEL W/ 200 amp MAIN BRKR

| DESCRIPTION | CIR | BRK | WS | A | B | WS | BRK | CIR | DESCRIPTION |
|------------------------|-----|-----|-----|------|---|-----|-----|-----|---|
| HVAC UNIT | 1 | 45 | #8 | 5280 | | #10 | 30 | 2 | WATER HEATER |
| | 3 | | | 2750 | | #10 | 2 | 4 | |
| DRYER | 5 | 30 | #10 | 2800 | | #10 | 30 | 6 | DRYER |
| | 7 | | | 2800 | | #10 | 2 | 8 | |
| DRYER | 9 | 30 | #10 | 2800 | | #10 | 30 | 10 | DRYER |
| | 11 | | | 2800 | | #10 | 2 | 12 | |
| (1) WP GFCI | 13 | | | 900 | | #12 | 20 | 14 | (1) GFCI |
| (4) DUPLEX RECEPTACLES | 20 | | | 900 | | #12 | 20 | 14 | (4) DUPLEX RECEPTACLES |
| SPACE | 15 | | | | | #12 | 20 | 16 | HW J-BOX |
| SPACE | 17 | | | | | #12 | 20 | 18 | (2) LIGHTS, (2) EXHAUST FANS, (1) PORCH LT, (1) EM/EXIT |
| SPACE | 19 | | | | | | | 20 | SPACE |

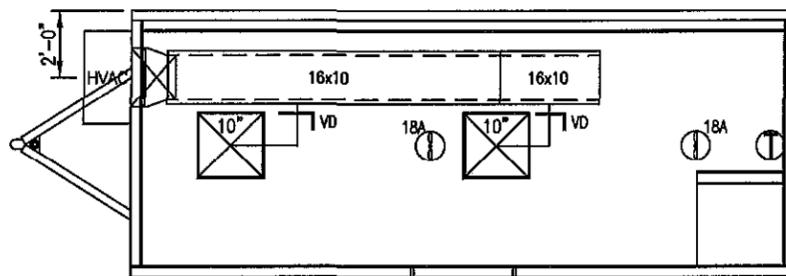
ELECTRICAL CALCULATIONS: LOAD CENTER 'A'

GENERAL LIGHTING:
 160 sq/ft x 3.5 x 1.25 = 700w
 (1) HVAC UNIT = 10560w
 (10) RECPTS. = 1800w
 (4) DEDICATED RECPTS. = 22400w
 (1) WATER HEATER = 4500w
 (1) HW J-BOX = 1800w

41760w ÷ 240v = 174 AMPS TOTAL



3 REFLECTED CEILING PLAN
 3/16"=1'-0"



4 HVAC PLAN
 3/16"=1'-0"

STRUCTURAL LEGEND

| | |
|--|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

ELECTRICAL NOTE:
 1. SEE DETAIL (2/5) FOR OUTLET LOCATIONS FOR FUTURE WASHERS & DRYERS.

PLUMBING NOTE:
 1. SEE DETAILS (7/4) & (8/4) FOR DUAL WASTE WASHER BOX INSTALLATION.
 2. SEE DETAIL (2/5) FOR WASHER BOX INSTALLATION LOCATIONS.

DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|--|-------------------------|----------------|---------|------|---------------|----------|--|-----------------------------|------------------|-----------------------------|-------------|--------|---|
| 1 | 1 | HOLLOW METAL, COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. MAJESTIC BLUE | 4 9/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC (TELL 600 SERIES) | SINGLE (GRADE 2) | PASSAGE LEVER, TELL GRADE 2 | NONE | N/A | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

WINDOWS:

| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
|-----|-----|-------------------------|-------------------------------|------|---------------|------------|------------|--|--|
| 1 | A | VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4030 | 48" x 36" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM, ADA WAND, COLOR: WHITE SATIN (C205) | HEADER AT 81" AFF LATCH @ BOTTOM OF WINDOW |

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 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH: 602-447-6460 FAX: 602-447-6476

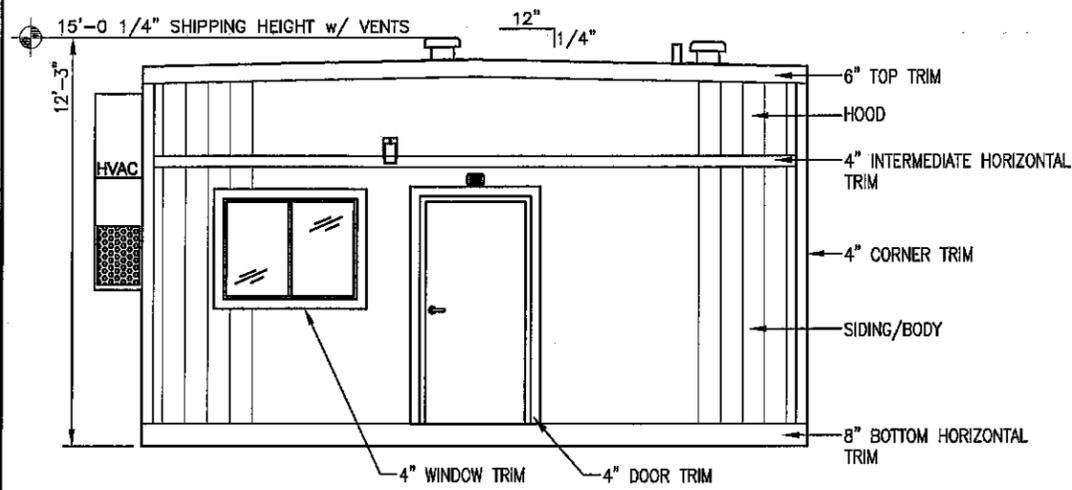
SUNBELT MODULAR, INC.
 ANATEX 1 BUILDING | PHOENIX 1 M.R. STEEL 1 AMERLEBAR

THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

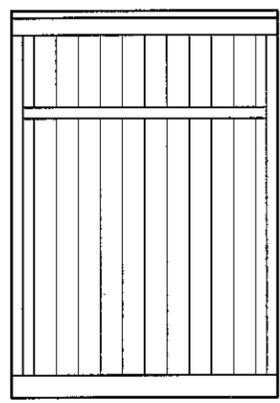
DEALER: DESIGN SPACE MODULAR BUILDINGS
 PROJECT: LAUNDRY ROOM
 STATES: CALIFORNIA
 SERIAL NUMBERS: PMI-3821-920
 DRAWN BY: RM/BS
 PLOT DATE: 1/9/2018
 REV # / DATE:
 #1 02/13/2018
 #2 02/23/2018
 #3 03/15/2018

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 25TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

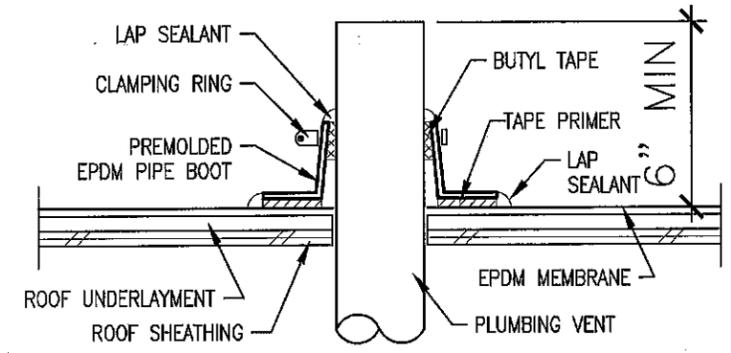
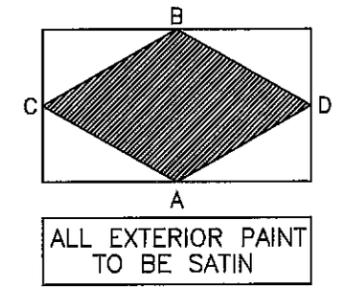
SHEET: **3** OF **5**



1 ELEVATION 'A'
3/16"=1'-0"

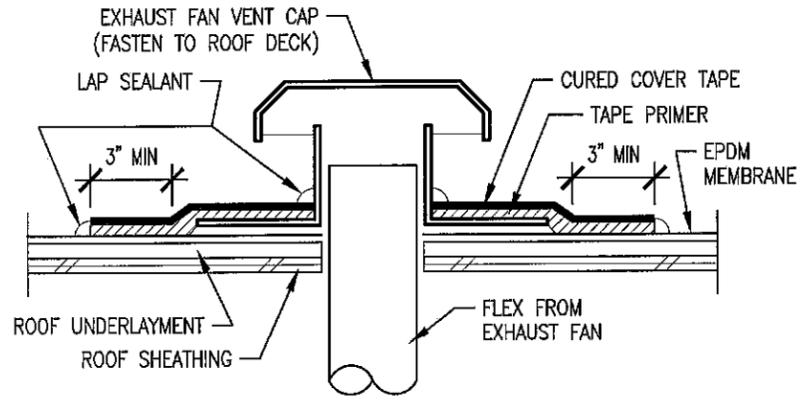


2 ELEVATION 'D'
3/16"=1'-0"

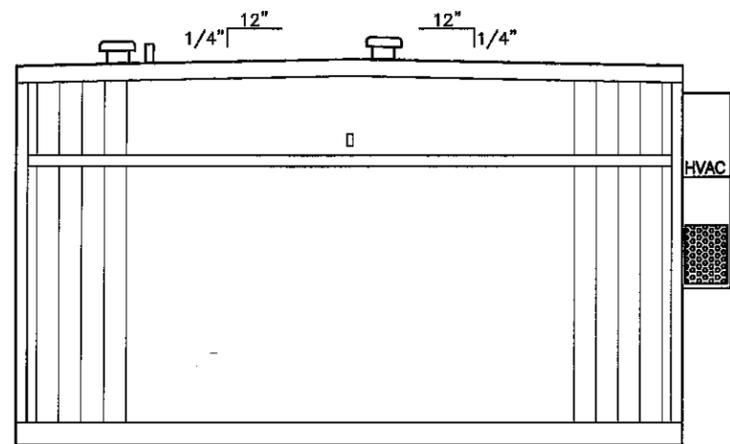


NOTE: SOME LOCATIONS MAY REQUIRE TALLER VENTS, EXTENSION AVAILABLE FOR PURCHASE WHEN REQ'D.

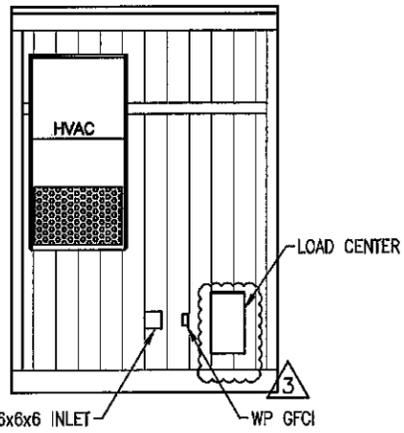
5 PLUMBING VENT-FACTORY INSTALLED
NTS



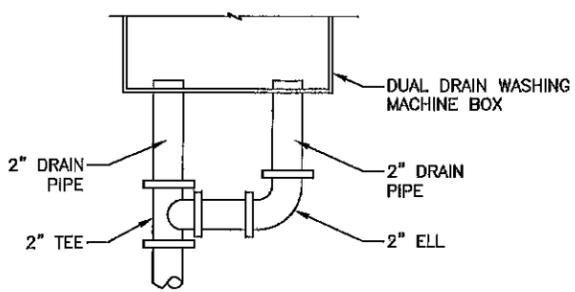
6 EXHAUST VENT CAP-FACTORY INSTALLED
NTS



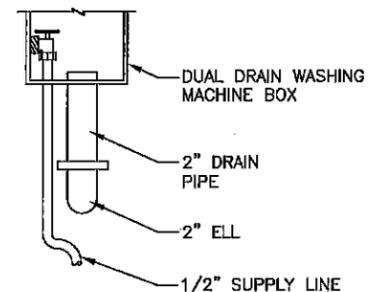
3 ELEVATION 'B'
3/16"=1'-0"



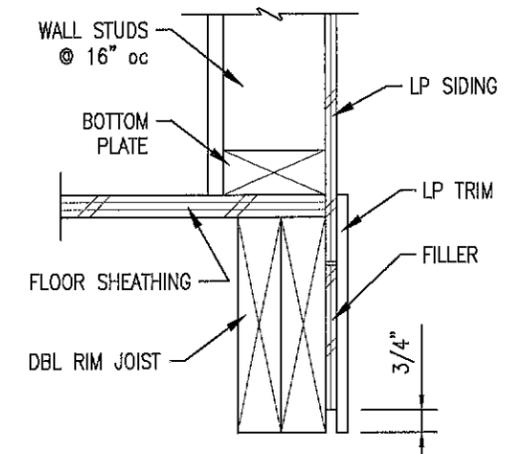
4 ELEVATION 'C'
3/16"=1'-0"



7 FRONT VIEW DUAL WASHER BOX
NTS



8 SIDE VIEW DUAL WASHER BOX
NTS



9 WALL FINISH @ FLOOR
NTS

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MAR 28 2018

PHOENIX MODULAR
SUNBELT MODULAR, INC.
5301 W. MADISON ST. - PHOENIX, AZ 85043
PH 602-447-5460 FAX 602-447-6576
A/ATEX I INDOCOM I PRECONIX I M.R. STEEL I AMERIFAB

THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: LAUNDRY ROOM

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3821-920

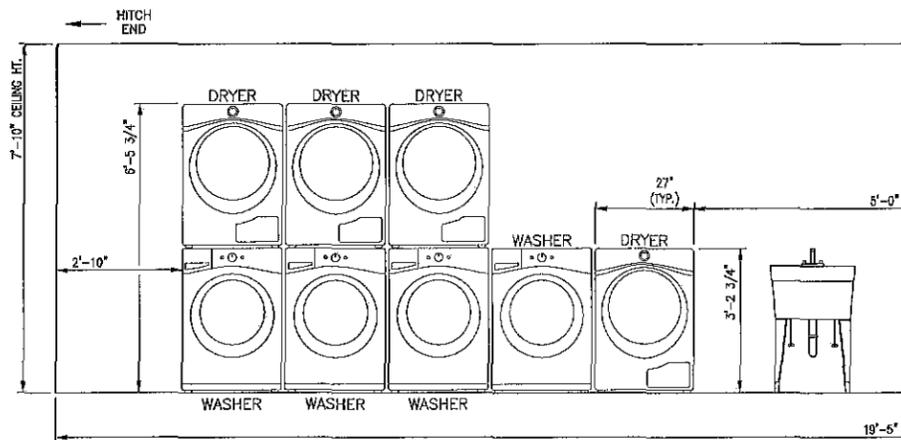
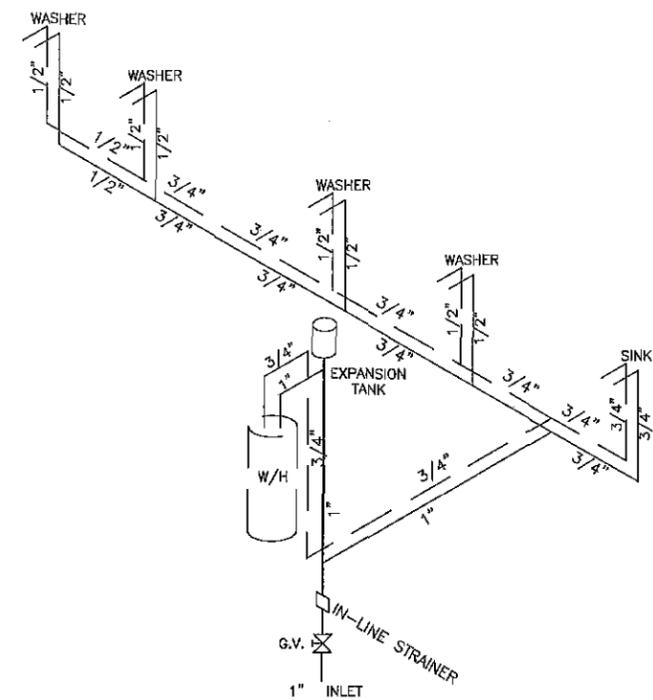
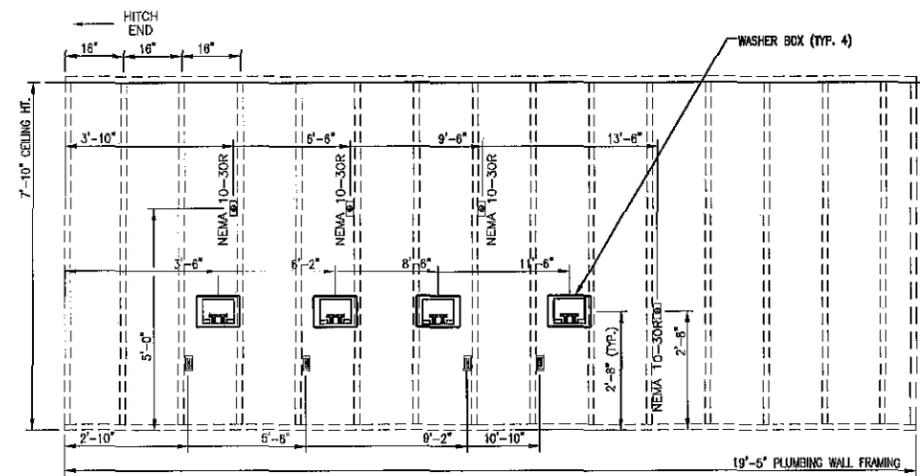
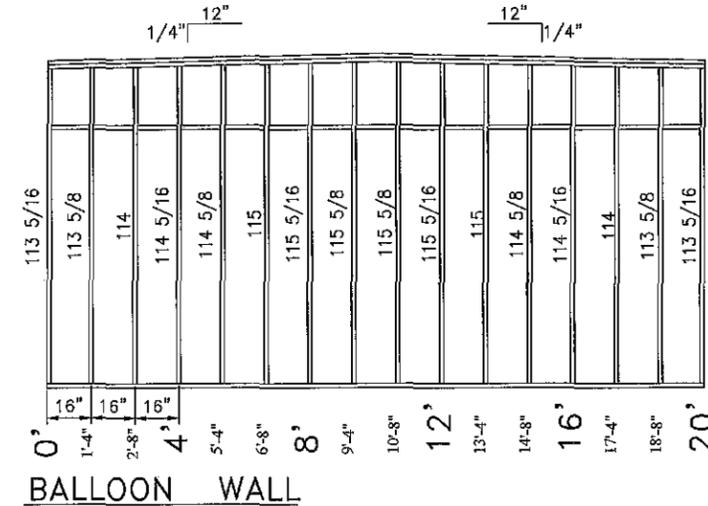
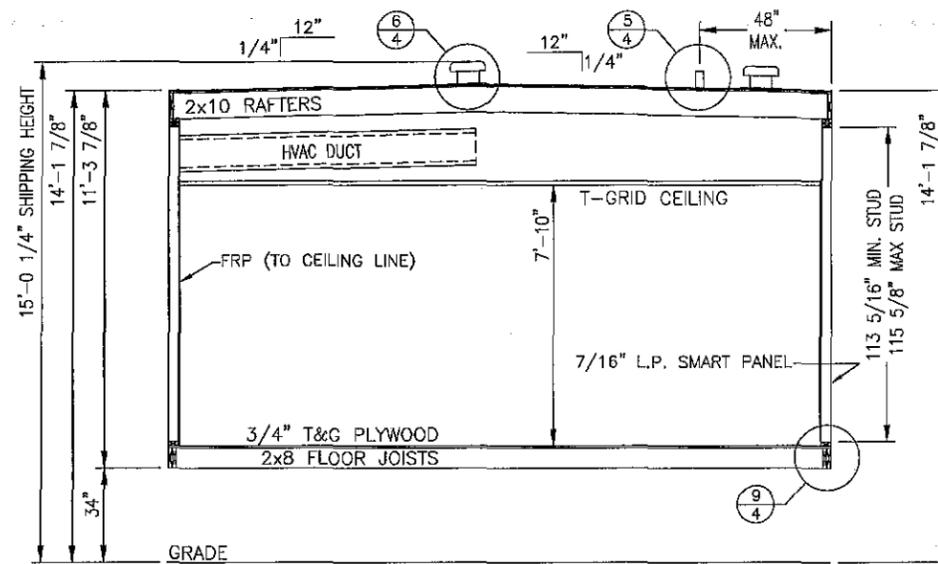
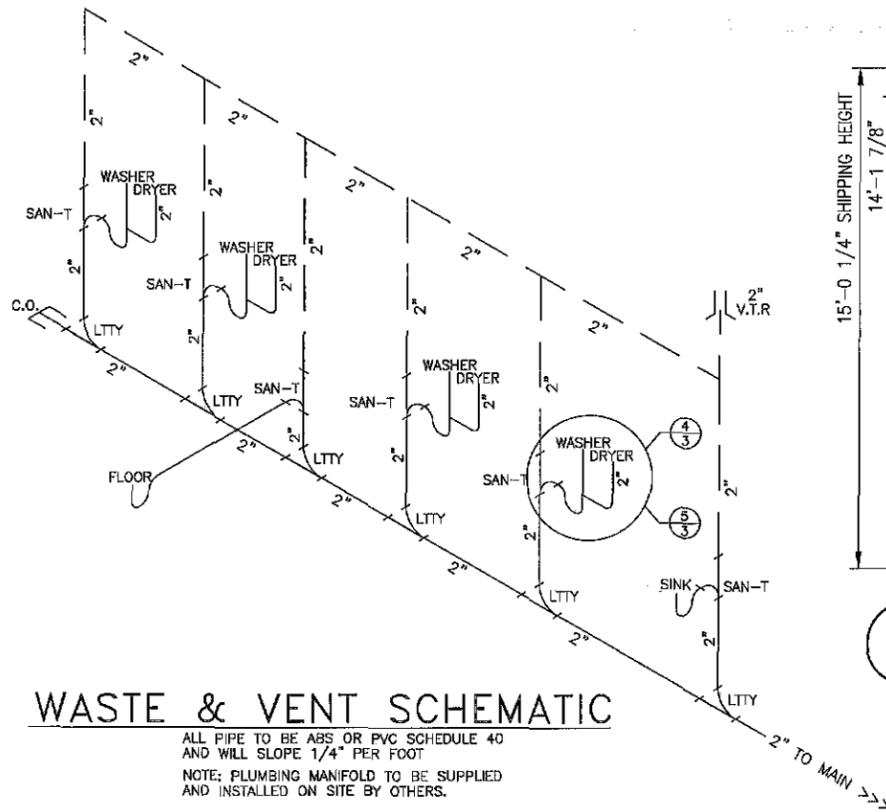
DRAWN BY: RM/BS

PLOT DATE: 1/9/2018

REV # / DATE:
#1 02/13/2018
#2 02/23/2018
#3 03/15/2018

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C.#208
PHOENIX, AZ 85029
(602) 327-4769

SHEET: 4 OF 5



NOTE:
ALL APPLIANCES PROVIDED & INSTALLED ON SITE BY OTHERS.

FINAL RELEASE
MAR 28 2018

PHOENIX MODULAR
SUNBELT MODULAR, INC.
3301 W. MADISON ST., PHOENIX, AZ 85045
PH 602-447-6660 FAX 602-447-6676
AMERICA | INDIANAPOLIS | PHOENIX | MAR. STEEL | AMERISPAK

THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER:
DESIGN SPACE MODULAR BUILDINGS

PROJECT:
LAUNDRY ROOM

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3821-920

DRAWN BY:
RM/BS

PLOT DATE:
1/9/2018

REV # / DATE:
#1 02/13/2018
#2 02/23/2018
#3 03/15/2018

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C206
PHOENIX, AZ. 85029
(602) 327-4769

SHEET:
5 OF 5

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 PHOENIXMODULAR.COM
 (SEE WEBSITE FOR WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
 BUILDING SQ.FT. 350
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. B
 OCCUPANCY LOAD. 4
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
 (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
 2. EXPLANATION OF BUILDING USE. OFFICE
 3. SET TYPE PAD/PIER ABOVE GRADE

NOT INCLUDED IN SCOPE OF WORK:

- PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
- PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
- ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
- NOT USED
- NOT USED
- ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
- THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

- SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- THIS PLAN MAY BE REVERSED AND/OR MIRRORRED.
- SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
- COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
- TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
- THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

DRAWING INDEX

| | |
|----------|---|
| SHEET 1: | COVER SHEET |
| SHEET 2: | SPECIFICATIONS AND CONDITIONS |
| SHEET 3: | FLOOR PLAN, HVAC PLAN, PLUMBING, HVAC, DOOR & WINDOW SCHEDULES |
| SHEET 4: | ELECTRICAL, REFLECTED CEILING PLANS, ELECTRICAL SCHEDULE, ELECTRICAL CALCS, PLUMBING ISOS |
| SHEET 5: | BUILDING ELEVATIONS, BUILDING CROSS SECTION, CABINET ELEVATION, DETAILS |

DEALER:
DESIGN SPACE MODULAR BUILDINGS

PROJECT:
Exam Building
12'-0" x 30'-0"
PMI-3822-1230

MANUFACTURED BY:
PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476

APPROVED
 APPROVED EXCEPT AS NOTED
 REVISE AND RESUBMIT

BY: _____ DATE: _____

PLEASE REVIEW DRAWINGS AND SPECIFICATIONS CAREFULLY. WHILE EVERY EFFORT IS MADE TO ASSURE THE DRAWINGS REFLECT THE EXPECTATIONS AND QUOTATION, THE FINAL CONSTRUCTION WILL BE BASED SOLELY ON THE SPECIFICATIONS AND DRAWINGS APPROVED.

FINAL RELEASE
 MAR 28 2018

PHOENIX MODULAR
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 PH 602-447-6460 FAX 602-447-6476

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 AMDEX | INDIANA | PHOENIX | M.R. STEEL | AMERIFAB

THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER:
 DESIGN SPACE MODULAR BUILDINGS

PROJECT:
 EXAM BUILDING

STATES:
 CALIFORNIA

SERIAL NUMBERS:
 PMI-3822-1230

DRAWN BY:
 RM/BS

PLOT DATE:
 1/12/2018

REV # / DATE:
 #1 P.R.#2 02/23/18
 #2 P.R.#3 03/15/18

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

SHEET:
 1
 OF
 5

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (1) EA
 Size: 11'-8 x 30'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Main Rails @ 99 1/2 in. O.C.
 Beam Size: 12 in. Jr. I-beam
 Axles: Triple 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
 Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 133-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. (T&G).
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
 Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
 Item 1: N/A

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
 Top plate: Single 2X4 #2 HF equal or better (Double as needed)
 Bottom plate: Single 2X4 #2 HF or better bottom plate
 Stud length: 92-5/8" (Ceiling height), Full Ht. (Divider wall only)
 Insulation: R-11 unfaced battens (Full Ht.)(Divider wall only)

Additional Interior Wall Items Included in Quoted Price:
 Item 1: N/A

ROOF CONSTRUCTION:

Roof Type: Mono (Slope roof away from door)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 Rafter Length: 137 in.
 Spacing: 16 in. O.C.
 Insulation: R-38 Cathedral unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:
 Item 1: N/A

FINISHES:

FLOOR COVERING
 Type 1: 0.080 Linoleum
 Location: THROUGHOUT
 Color to be: WHITE CLIFF (88702)

BASE
 Cove Base 1: 4 in. vinyl cove.
 Location: THROUGHOUT
 Color to be: GRAY

WALLS
 Covering 1: 1/2 in. vinyl covered gypsum to ceiling line, raw 1/2 in. gyp to rafters (both sides)
 Location: DIVIDER WALL ONLY
 Color to be: TIKI GRASS CHALK

Covering 2: 1/2 in. vinyl covered gypsum
 Location: REMAINDER
 Color to be: TIKI GRASS CHALK
 Covering height: 8 ft.

TRIM
 Wall Trim 1: Vinyl Covered trim
 Color to be: (To match VCG)

CEILING
 Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Armstrong Tile #789A or Equal)
 Height: 7'-10"

EXTERIOR
 Siding body: Color: (BUTTERSCOTCH) 8 ft. sheets
 Hood: Color: (BUTTERSCOTCH)
 Corner trim: Color: (BUTTERSCOTCH)
 Door & window trim: Color: (BUTTERSCOTCH)
 Bottom horizontal trim: Color: (BUTTERSCOTCH)
 Intermediate horizontal trim: Color: (BUTTERSCOTCH) separates hood & body
 Top horizontal trim: Color: (BUTTERSCOTCH)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: (SEE WINDOW SCHEDULE)

CLOSEUP:

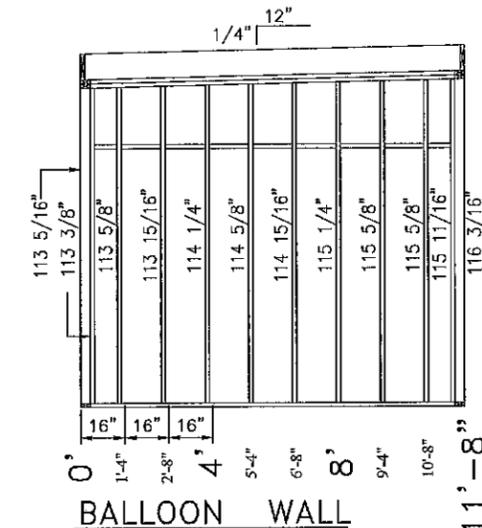
Type: Single Unit
 Notes: Module NOT TO exceed 12'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: 6 L.F. of base laminate cabinet
 Color: FROSTY WHITE
 Counters: 6 L.F. of 25.5 wide laminate
 Edge type: Rolled
 Color: NORTH SEA D90-60
 Shelving: None provided



BALLOON WALL

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
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THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: EXAM BUILDING

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3822-1230

DRAWN BY: RM/BS

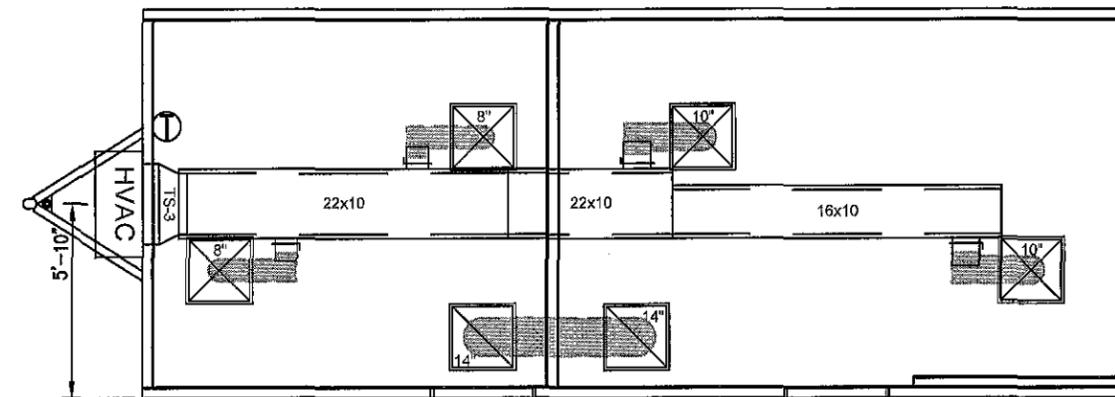
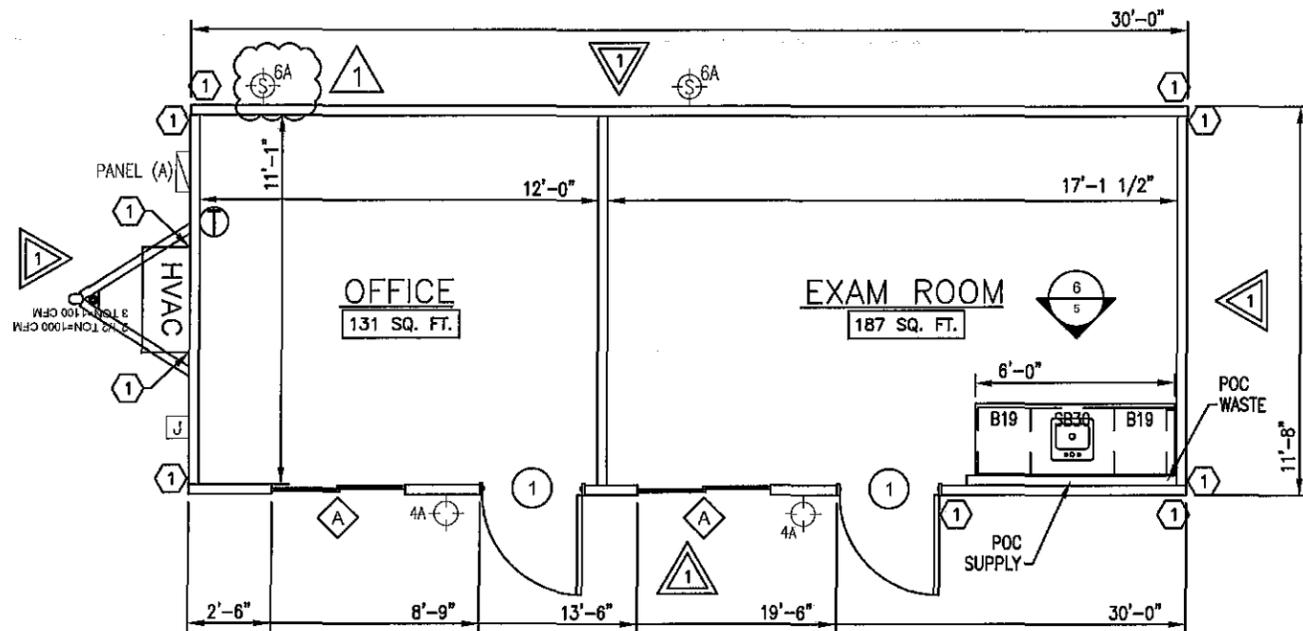
PLOT DATE: 1/12/2018

REV # / DATE:
 #1 P.R.#2 02/23/18
 #2 P.R.#3 03/15/18

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR., BLDG. C, #C208
 PHOENIX, AZ. 85029
 (602) 327-4769

FINAL RELEASE
 MAR 28 2018

SHEET:
 2 OF 5



1 FLOOR PLAN
3/16"=1'-0" SQUARE FOOTAGE - 350 S.F.
OCCUPANCY LOAD = 4

| STRUCTURAL LEGEND | |
|-------------------|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

| PLUMBING SCHEDULE | | |
|--|--|-----|
| SYMBOL | DESCRIPTION | QTY |
| | 15"x15" BAR SINK, GOOSENECK FAUCET w/ WRIST BLADE HANDLES. BRANDS: SINK: NO BRAND SPECIFIED FAUCET: MATCO NORCA CL-320-CB | 1 |
| | SINGLE POINT ON-DEMAND WATER HEATER (120v) BRAND: EEMAX SP3512 | 1 |
| NOTE: 1. PROVIDE 3/4" INLINE STRAINER. | | |

| HVAC SCHEDULE | | |
|--|---|-----|
| SYM | DESCRIPTION | QTY |
| | 3 TON HP W/ 5 kw HEAT STRIP (F.A.D.) NOTE: HVAC UNIT TO HAVE MERV 8 AIR FILTER MODEL # (W36H2-A05) OR EQUAL | 1 |
| | 29"x9" TO 22"x10" GALV. SLEEVE 16" LONG | 1 |
| | 30"x16" STAMP FACED THRU WALL AIR GRILL w/ 29" x 15" x 4" TAP-IN (RETURN) (NO BRAND SPECIFIED) | 1 |
| | 22"x10"x10'-0" FIBERGLASS DUCT. | 1.5 |
| | 16"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| | 24"x24" 4-WAY THROW DIFFUSER. 8" COLLAR W/ SCOOP & DAMPER 8" FLEX. 8" START COLLAR. | 2 |
| | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 2 |
| | (2) 24"x24" RETURN AIR GRILLS w/ 14" COLLAR, 14" FLEX. | 1 |
| NOTE: 1. INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS. 2. NO MORE THAN 5' OF FLEX TO ANY REGISTER. | | |

| DOORS: | | | | | | | | | | | | | | | |
|--------|-----|------------------------------------|------------------------|----------------|---------|------|---------------|----------|---|-----------|-----------------|-----------------------------|-------------|--------|---|
| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. BUTTERSCOTCH | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (BUTTERSCOTCH) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

| WINDOWS: | | | | | | | | | |
|----------|-----|-------------------------------|-------------------------------|------|---------------|------------|------------|---|--|
| Qty | NO. | Type | Glazing | Size | Rough Opening | U-Factor | SHGC | Mini-Blind | Notes |
| 2 | A | WHITE VINYL HORIZONTAL SLIDER | CLEAR, DUAL GLAZED, DBL LOW-E | 4030 | 48" x 36" | 0.46 (MAX) | 0.22 (MAX) | HORIZONTAL ALUMINUM. COLOR: WHITE SATIN (C205) PROVIDE ADA WAND | HEADER AT 81" AFF PROVIDE (HANDLE AT BOTTOM OF WINDOW) |

FINAL RELEASE

MAR 28 2018

THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER:
DESIGN SPACE MODULAR BUILDINGS

PROJECT:
EXAM BUILDING

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3822-1230

DRAWN BY:
RM/BS

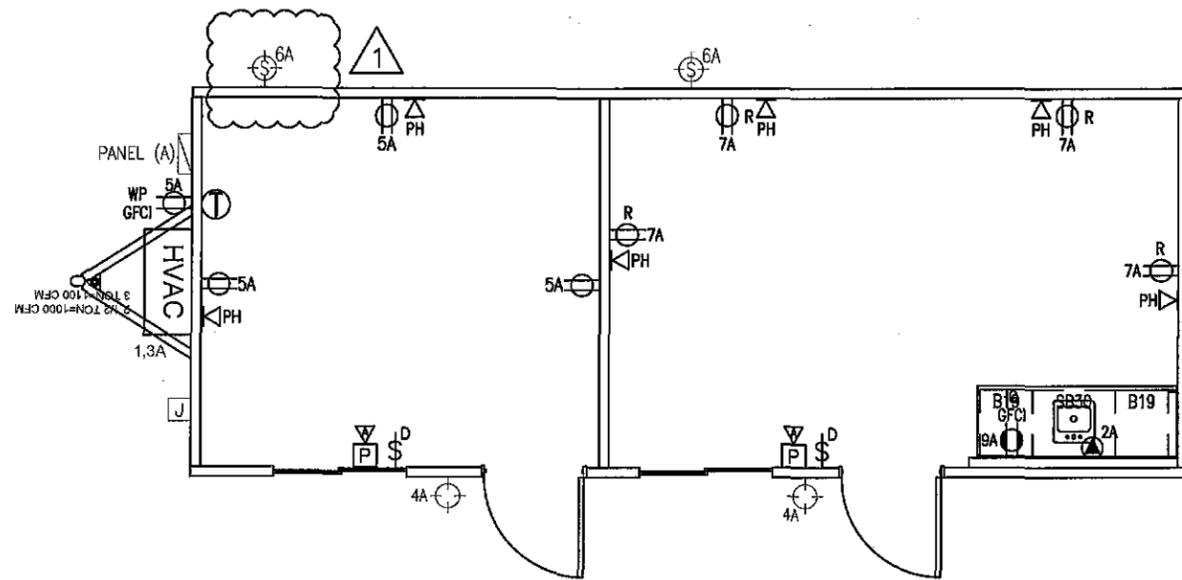
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1/12/2018

REV # / DATE:
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#2 P.R.#3 03/15/18

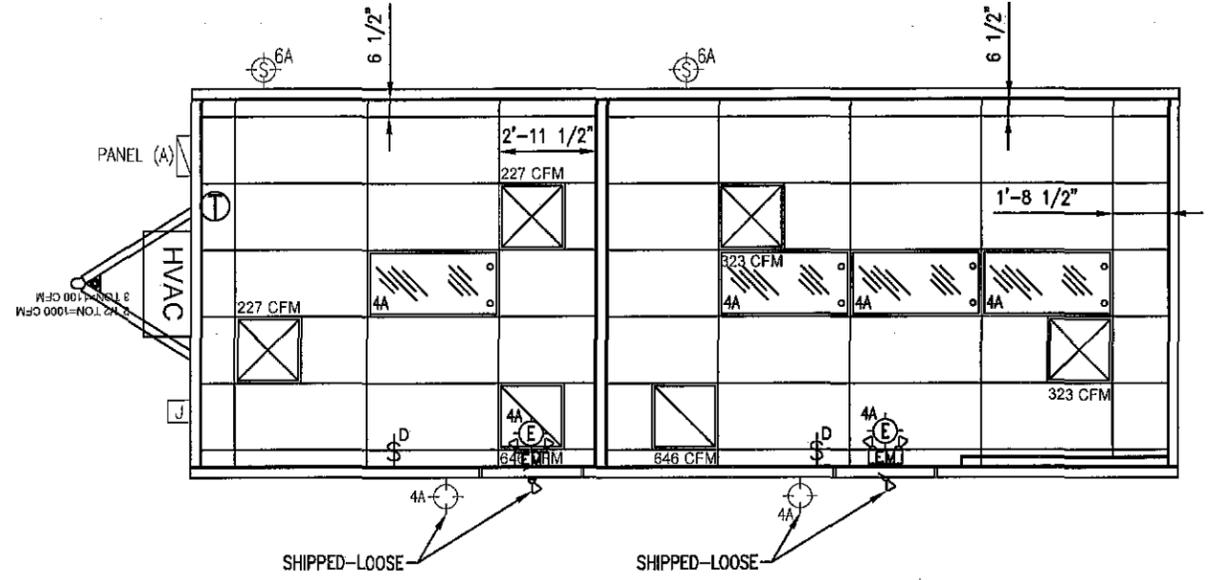
R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C206
PHOENIX, AZ. 85029
(602) 327-4769

SHEET:

3
OF
5



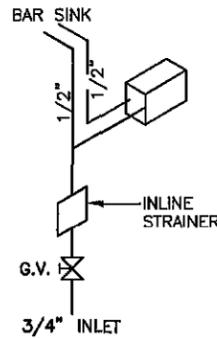
2 ELECTRICAL PLAN
3/16"=1'-0"



3 REFLECTED CEILING PLAN
3/16"=1'-0"

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|----------------|--|-------|-----|--|
| PANEL | 125 AMP 1 PHASE 120/240 W/125 AMP MAIN, 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | ⚠ |
| □ | 6x6x6" NEMA 3R J-BOX SEMI-RECS'D MINT'D @18" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊕ | GFCI DUPLX RCPT. W/ WEATHER PROOF COVER PLATE @18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | 20 AMP |
| ⊕ | DUPLX RECEPTACLE w/ COVER PLATE @18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 3 | 20 AMP |
| ⊕ ^R | DUPLX RECEPTACLE w/ COVER PLATE @18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 4 | 20 AMP HOSPITAL GRADE REDUNDANT GROUND **USE MEDICAL GRADE MC/FLEX** |
| ⊕-GFCI | GROUND FAULT CIRCUIT INTERRUPT RCPT. W/ COVER PLATE @18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | 20 AMP HOSPITAL GRADE ISOLATED GROUND **USE MEDICAL GRADE MC/FLEX** |
| ⊕ | WALL MNT'D DIMMING/OCCUPANCY SENSOR W/ COVER PLATE @46" A.F.F. LUTRON MS-Z101 (OR EQUAL) | IVORY | 2 | |
| ⊕ | 2x4 LED FIXTURE, RECESSED, DIFFUSED. (NO BRAND SPECIFIED) | N/A | 4 | |
| ⊕ | PORCH LIGHTS @102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 2 | w/ PHOTOCELL ON LIGHT (2) SHIPPED LOOSE |
| ⊕ | 4x4 HW J-BOX @102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 2 | ⚠ FUTURE EXT. LIGHT |
| ⊕ | WALL MNT' EMERGENCY LIGHT w/ RED EXIT LIGHT M'NT. @88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD M'NT. @90" A.F.F. | N/A | 2 | OCTAGONAL BOX FOR REMOTE HEAD (2) REMOTE HEADS SHIPPED LOOSE |
| ⊕ | THERMOSTAT @46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) |
| ⊕PH | 4x4 J-BOX @18" A.F.F. w/3/4" CONDUIT STUBBED TO CEILING CAVITY W/ SOL. MUD RING AND COVER PLATE | IVORY | 6 | FOR FUTURE TELEPHONE |
| ⊕ | HARD WIRED SINGLE GANGED J-BOX FOR WATER HEATER @18" A.F.F. w/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 1 | |
| ⊕ | 4x4 J-BOX @86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO VISUAL |
| ⊕ | 2x4 HW J-BOX @46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 2 | FOR FUTURE PULL STATION |
| | NOT USED | | | |
| RACEWAY | MEDICAL GRADE MC/FLEX @ EXAM ROOM ONLY. STANDARD MC/FLEX AT REMAINDER OF BUILDING. | | | |

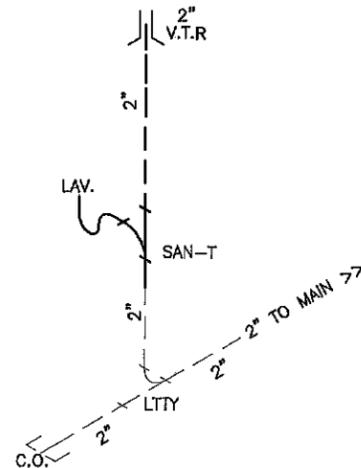
NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)



COLD & HOT SCHEMATIC

MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 46 TO 60 PSI
GREATEST DEVELOPED LENGTH 40'

SUPPLY: COPPER (TYPE M OR PEX)



WASTE & VENT SCHEMATIC

ALL PIPE TO BE ABS SCHEDULE 40 AND WILL SLOPE 1/4" PER FOOT

NOTE: PLUMBING MANIFOLD TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.

| 125 AMP 120/240 1 PHASE PANEL WITH 125 AMP MAIN BREAKER (NEMA 3R) | | | | | | | | | |
|---|-----------------------------------|---------|-----|-------|------|-----|---------|---|----|
| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
| 6 | 3 TON HVAC UNIT 5KW HEAT STRIP | 1 | 60 | 6600 | | 30 | | Insta-hot | 10 |
| | | 3 | 2 | 3000 | 6800 | | 2 | (4) lights (2) porch (2) exit/em lights | 12 |
| 12 | (1)WP GFCI (3) recepts | 5 | 20 | 720 | 252 | 20 | 4 | (2) HW j-boxes | 12 |
| 12 | (4) recepts | 7 | 20 | 1800 | 720 | | 6 | Space | |
| 12 | (1) DED GFCI recept | 9 | 20 | 1800 | | | 8 | Space | |
| | Space | 11 | | | | | 10 | Space | |
| | | | | | | | 12 | Space | |
| | | | | 13920 | 7572 | | | Total | |

ELECTRICAL CALCULATION:

GENERAL LIGHTING:

318 SQ.FT. x 3.5 x 1.25 = 1391 watts
8 RECEPTACLES = 1440 watts
1 HVAC UNITS = 13200 watts
1 INSTA-HOT = 3000 watts
1 DED RECEPT = 1800 watts
2 HW J-BOX = 1800 watts

TYPE OF PANEL: LOAD CENTER

22631 watts divide by 240volts = 94.3 AMPS TOTAL

| SYM | DESCRIPTION |
|-----|--|
| --- | WASTE DRAIN (FACTORY INSTALLED) |
| --- | WASTE DRAIN (SUPPLIED & INSTALLED BY OTHERS) |
| --- | WASTE VENT (FACTORY INSTALLED) |

FINAL RELEASE

MAR 28 2018

PHOENIX MODULAR
5301 W. MADISON ST. - PHOENIX, AZ 85043
TEL: 602-487-6866 FAX: 602-487-6876
SUNBELT MODULAR, INC.
AMETEK | INDOOR | PERGOLAS | M.R. STEEL | AMERIFAB

THESE DRAWINGS REMAIN THE PROPERTY OF PHOENIX MODULAR AND ARE NOT TO BE USED IN ANYWAY WITHOUT WRITTEN PERMISSION.

DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: EXAM BUILDING

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3822-1230

DRAWN BY: RM/BS

PLOT DATE: 1/12/2018

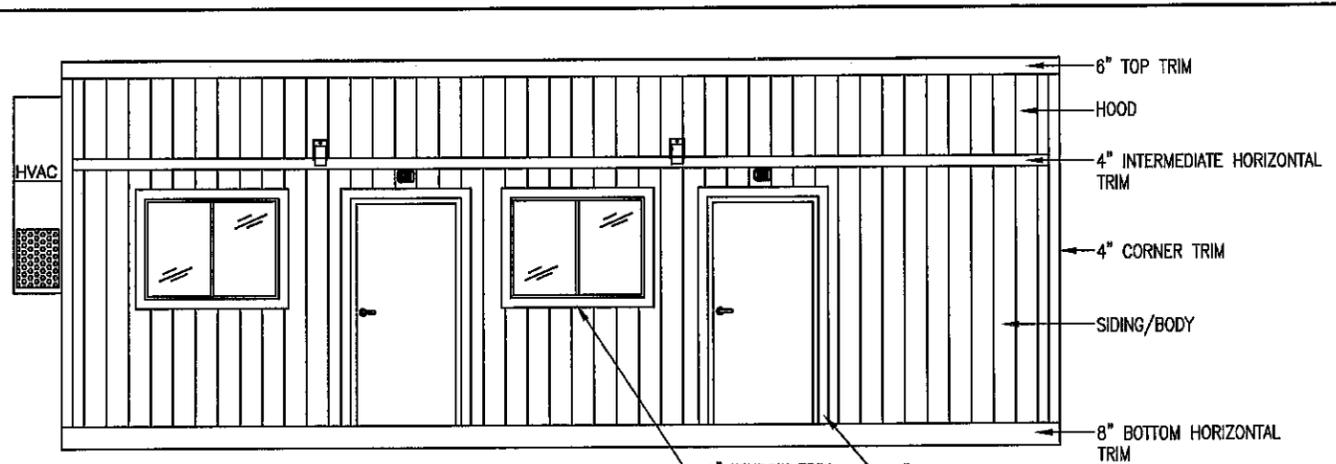
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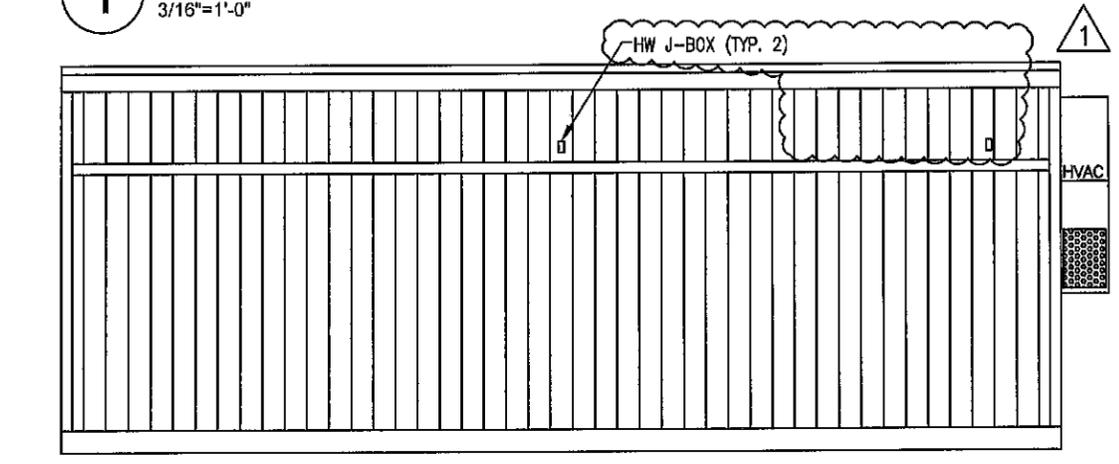
#2 P.R.#3 03/15/18

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C206
PHOENIX, AZ. 85029
(602) 327-4769

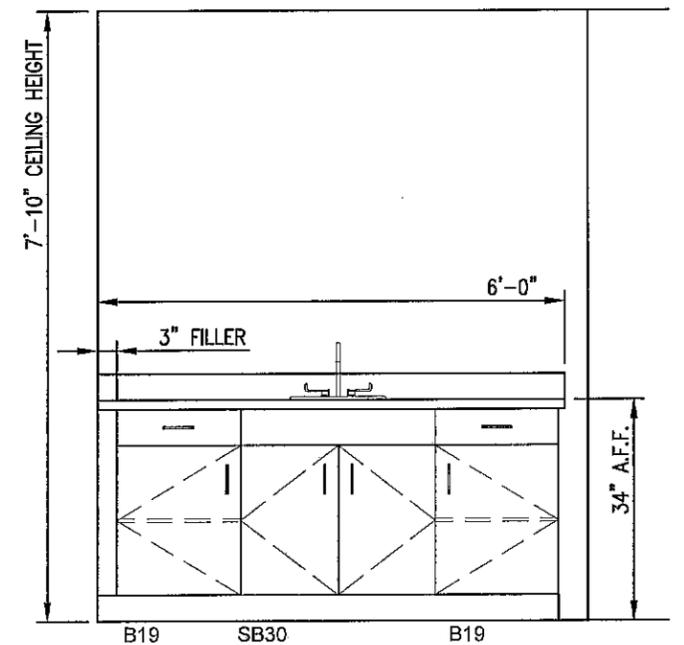
SHEET: **4 OF 5**



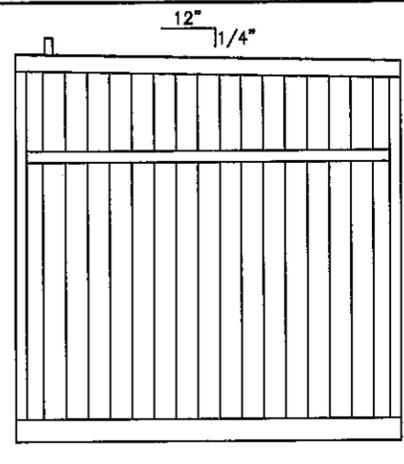
1 ELEVATION 'A'
3/16"=1'-0"



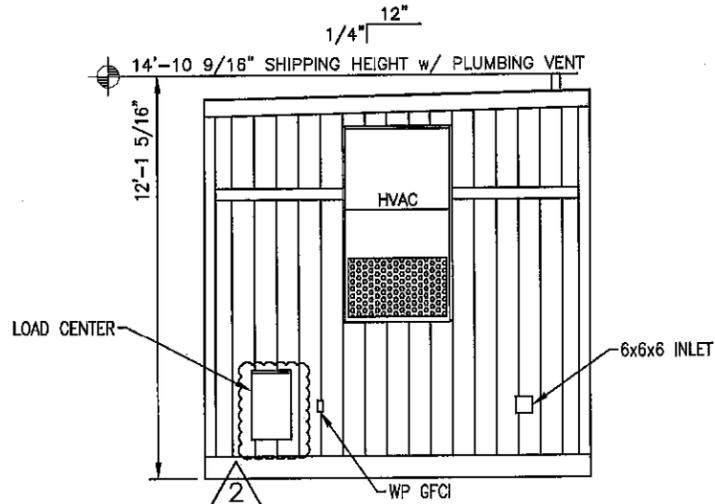
3 ELEVATION 'B'
3/16"=1'-0"



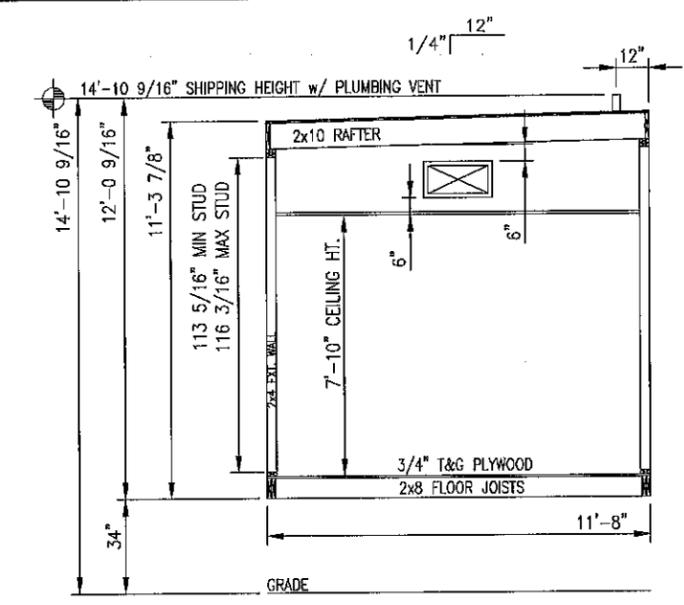
6 CABINET ELEVATION
NTS



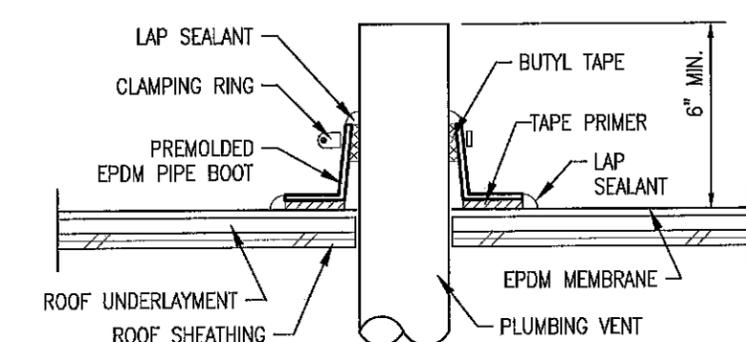
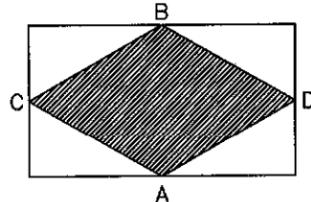
2 ELEVATION 'D'
3/16"=1'-0"



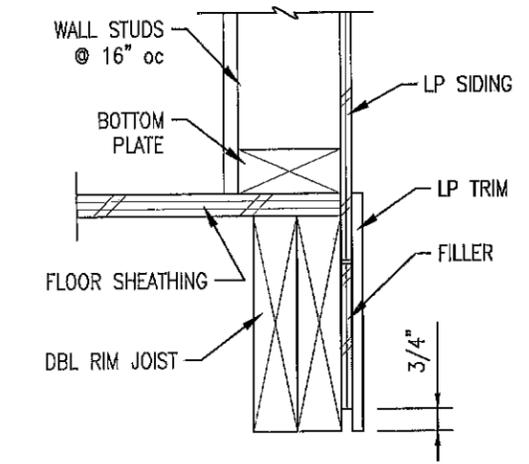
4 ELEVATION 'C'
3/16"=1'-0"



5 CROSS SECTION
3/16"=1'-0"



7 PLUMBING VENT-FACTORY INSTALLED
NTS



8 WALL FINISH @ FLOOR
NTS

PHOENIX MODULAR
SUNBELT MODULAR, INC.
5301 W. MADISON ST. - PHOENIX, AZ 85043
PH: 602-447-5660 FAX: 602-447-5676
AMTEK | INDIAN | PRECON | MARK STEELE | ASMBR/IAS

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DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: EXAM BUILDING

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3822-1230

DRAWN BY: RM/BS

PLOT DATE: 1/12/2018

REV # / DATE:
#1 P.R.#2 02/23/18
#2 P.R.#3 03/15/18

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR., BLDG. C, #C208
PHOENIX, AZ 85029
(602) 327-4789

FINAL RELEASE
MAR 28 2018

SHEET: 5 OF 5

MANUFACTURER:
 MANUFACTURER & ADDRESS PHOENIX MODULAR
 5301 W. MADISON ST.
 PHOENIX, AZ. 85043
 PHOENIXMODULAR.COM
 (SEE WEBSITE FOR WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
 BUILDING SQ.FT. 160
 TYPE OF CONSTRUCTION. VB
 OCCUPANCY USE GROUP. B
 OCCUPANCY LOAD. 2
 FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
 ROOF LIVE LOAD. 20 psf.
 ROOF SNOW LOAD. 15 psf.
 WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
 SEISMIC Ss=3.730, S1=1.389
 Site Class 'D'
 Design Category 'E'

PERMISSIBLE GAS TYPE. N/A
 CLIMATE ZONE. 3

NAME AND DATE OF CODES:
 CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
 2016 CA Energy, & CBC Chapter 11B Accessibility

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
 INSTALLED AT. FACTORY
 CONTRACTED BY. DEALER
 INSTALLED BY. SUMMIT FIRE PROTECTION

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 680 BRYANT STREET
 AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
 2. EXPLANATION OF BUILDING USE. OFFICE
 3. SET TYPE PAD/PIER ABOVE GRADE

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. NOT USED
5. NOT USED
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

DRAWING INDEX

| | |
|----------|--|
| SHEET 1: | COVER SHEET |
| SHEET 2: | SPECIFICATIONS AND CONDITIONS, ELECTRICAL LEGEND, HVAC LEGEND. |
| SHEET 3: | FLOOR PLAN, ELECTRICAL PLAN, REFLECTED CEILING PLAN, HVAC PLAN |
| SHEET 4: | ELEVATIONS, BUILDING CROSS-SECTION ELECTRICAL CALCS, DETAILS. |

DEALER:
DESIGN SPACE MODULAR BUILDINGS

PROJECT:
Office
8'(9')-0" x 20'-0"
PMI-3824-920

MANUFACTURED BY:
PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476

FINAL RELEASE
 MAR 28 2018

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476
SUNBELT MODULAR, INC.
 AMEREX | INDCOM | PHOENIX | M.R. STEEL | AMERFAB

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DEALER:
 DESIGN SPACE MODULAR BUILDINGS

PROJECT:
 OFFICE

STATES:
 CALIFORNIA

SERIAL NUMBERS:
 PMI-3824-920

DRAWN BY:
 RM/BS

PLOT DATE:
 1/12/2018

REV # / DATE:
 1 P.R. #1-2 02/02/18
 2 P.R. #3 02/23/18
 3 PR#4 03/15/18

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11226 N. 28TH DR., BLDG. C, #206
 PHOENIX, AZ. 85029
 (602) 327-4769

SHEET:
 1
 OF
 4

FRAME / CHASSIS:

Frame Type: Basement
 Quantity: (1) EA
 Size: 8'-0" x 20'-0"
 Type: Outrigger @ 96 in O.C.
 Crossmember @ 96 in. O.C.
 Main Rails @ 65 1/2 in. O.C.
 Beam Size: 10 in. Jr. I-beam
 Axles: Tandem 6000# rated with (All) brake
 Hitch: Detachable
 Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:

Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
 Joist Length: 89-7/8 in.
 Joist Spacing: 16 in. O.C.
 Floor: Single layer 3/4 in. (T&G).
 Insulation: R-19 unfaced fiberglass batt
 Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:

Item 1: N/A

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
 Top Plate: Double 2X4 #2 HF equal or better
 Bottom Plate: Single 2X4 #2 HF or better
 Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
 Insulation: R-13 Kraft back fiberglass batt
 Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment.
 Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:

Item 1: See detail (7/4) for exterior shearwall detail.

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
 Top plate: Single 2X4 #2 HF equal or better (Double as needed)
 Bottom plate: Single 2X4 #2 HF or better bottom plate
 Stud length: 92-5/8 in. (Ceiling Ht.)
 Insulation: N/A

Additional Interior Wall Items included in Quoted Price:

Item 1: N/A

ROOF CONSTRUCTION:

Roof Type: Mono (Slope roof away from door)
 Roof Slope: 1/4 to 12
 Rafter size: 2X10 #2 HF equal or better
 Rafter Length: 93 in.
 Spacing: 16 in. O.C.
 Insulation: R-38 Cathedral unfaced fiberglass batt with support netting
 Sheathing: 1/2 in. 24/0 Sheathing
 Roofing: 45 mil single ply EPDM over 1/4" Densdeck
 Color: White

Additional Roof Items Included in Quoted Price:

Item 1: N/A

FINISHES:

FLOOR COVERING

Type 1: 0.080 Linoleum
 Location: THROUGHOUT
 Color to be: WHITE CLIFF (88702)

BASE

Cove Base 1: 4 in. vinyl cove.
 Location: THROUGHOUT
 Color to be: GRAY

WALLS

Covering 1: 1/2 in. vinyl covered gypsum
 Location: THROUGHOUT
 Color to be: TIKI GRASS CHALK

TRIM

Wall Trim 1: Vinyl Covered trim
 Color to be: (To match VCG)

CEILING

Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
 (Armstrong Tile #769A or Equal)
 Height: 7'-10"

EXTERIOR

Siding body: Color: (BUTTERSCOTCH) 8 ft. sheets
 Hood: Color: (BUTTERSCOTCH)
 Corner trim: Color: (BUTTERSCOTCH)
 Door & window trim: Color: (BUTTERSCOTCH)
 Bottom horizontal trim: Color: (BUTTERSCOTCH)
 Intermediate horizontal trim: Color: (BUTTERSCOTCH) separates hood & body
 Top horizontal trim: Color: (BUTTERSCOTCH)
 All paint to be: Satin Finish

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: (SEE WINDOW SCHEDULE)

CLOSEUP:

Type: Single Unit
 Notes: Module NOT TO exceed 9'-0"

APPLIANCES:

None provided

ACCESSORIES:

Cabinets: None provided
 Counters: None provided
 Shelving: None provided

HVAC SCHEDULE

| SYM | DESCRIPTION | QTY |
|-----|---|-----|
| HWG | 1.5 TON HP W/ 4 kw HEAT STRIP (F.A.D.) NOTE: HVAC UNIT TO HAVE MERV 8 AIR FILTER MODEL # (W18H2-A04) OR EQUAL | 1 |
| ✕ | 21"x9" TO 16"x10" GALV. SLEEVE 16" LONG | 1 |
| | NOT USED | |
| — | 20"x12" STAMP FACED THRU WALL AIR GRILL w/ 21" x 13" x 4" TAP-IN (RETURN) (NO BRAND SPECIFIED) | 1 |
| □ | 18"x10"x10'-0" FIBERGLASS DUCT. | 1.5 |
| ✕ | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 2 |
| ✕ | (2) 24"x24" RETURN AIR GRILLS w/ 10" COLLAR, 10" FLEX. | 1 |

NOTE: 1. INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS.
 2. NO MORE THAN 5' OF FLEX TO ANY REGISTER.

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|--------|---|-------|-----|-------------------------------|
| PANEL | 125 AMP 1 PHASE 120/240 W/125 AMP MAIN. 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | |
| □ | 6x6x6 NEMA 3R J-BOX SEMI-RECS. MNT'D @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| ⊕ | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | 20 AMP |
| ⊕ | DUPLEX RECEPTACLE w/ COVER PLATE @ 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 6 | 20 AMP |
| ⊕ | WALL MNT'D DIMMING/OCCUPANCY SENSOR w/ COVER PLATE @ 46" A.F.F. LUTRON MS-Z101 (OR EQUAL) | IVORY | 2 | 1 |
| ⊕ | 2x4 LED FIXTURE, RECESSED, DIFFUSED. (NO BRAND SPECIFIED) | N/A | 2 | |
| ⊕ | PORCH LIGHTS @ 102" A.F.F. U.N.O. BRAND: WESTGATE LSW-22CW-PC | N/A | 2 | PHOTOCELL ON LIGHT |
| ⊕ | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 1 | FUTURE EXT. LIGHT |
| ⊕ | WALL MNT EMERGENCY LIGHT w/ RED EXIT LIGHT M'NT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD M'NT. @ 90" A.F.F. | N/A | 2 | OCTAGONAL BOX FOR REMOTE HEAD |
| ⊕ | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) |
| K/PH | 4x4 J-BOX @ 18" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ SGL. MUD RING AND COVER PLATE | IVORY | 3 | FOR FUTURE TELEPHONE |
| ⊕ | 4x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE U.N.O. | IVORY | 2 | FOR FUTURE AUDIO VISUAL |
| ⊕ | 2x4 HW J-BOX @ 45" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 2 | FOR FUTURE PULL STATION |
| | NOT USED | | | |

RACEWAY MC/FLEX
 NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)

PHOENIX MODULAR
 3301 W. MADISON ST. - PHOENIX, AZ 85043
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DEALER: DESIGN SPACE MODULAR BUILDINGS

PROJECT: OFFICE

STATES: CALIFORNIA

SERIAL NUMBERS: PMI-3824-920

DRAWN BY: RM/BS

PLOT DATE: 1/12/2018

REV # / DATE:
 1 P.R. #1-2 02/02/18
 2 P.R. #3 02/23/18
 3 PR#4 03/15/18

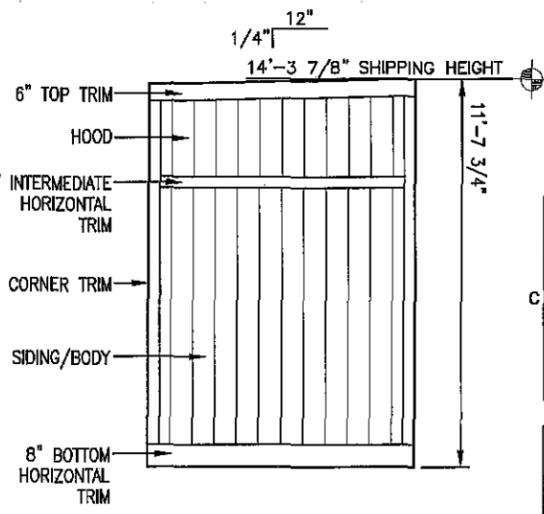
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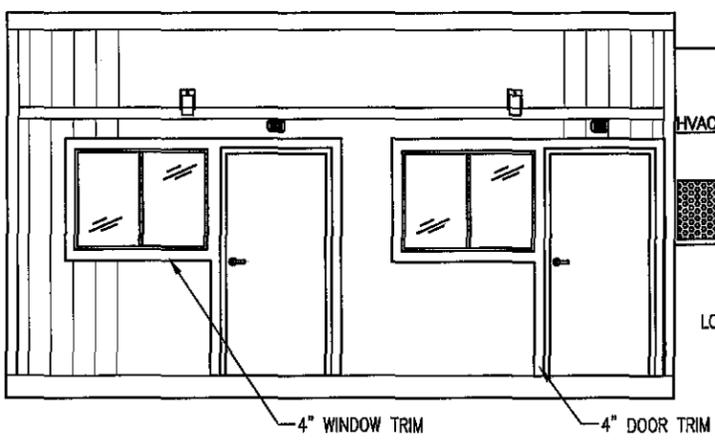
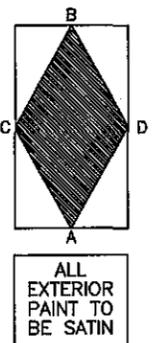
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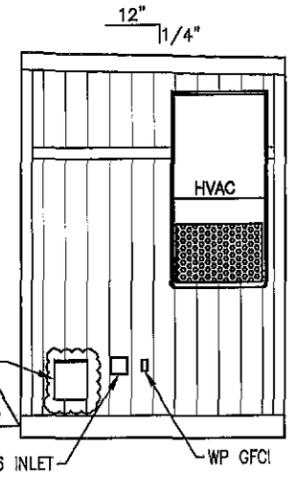
MAR 28 2018



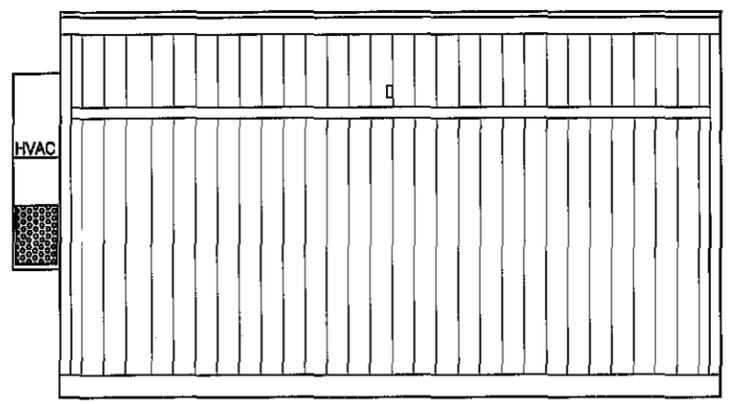
1 ELEVATION 'B'
3/16"=1'-0"



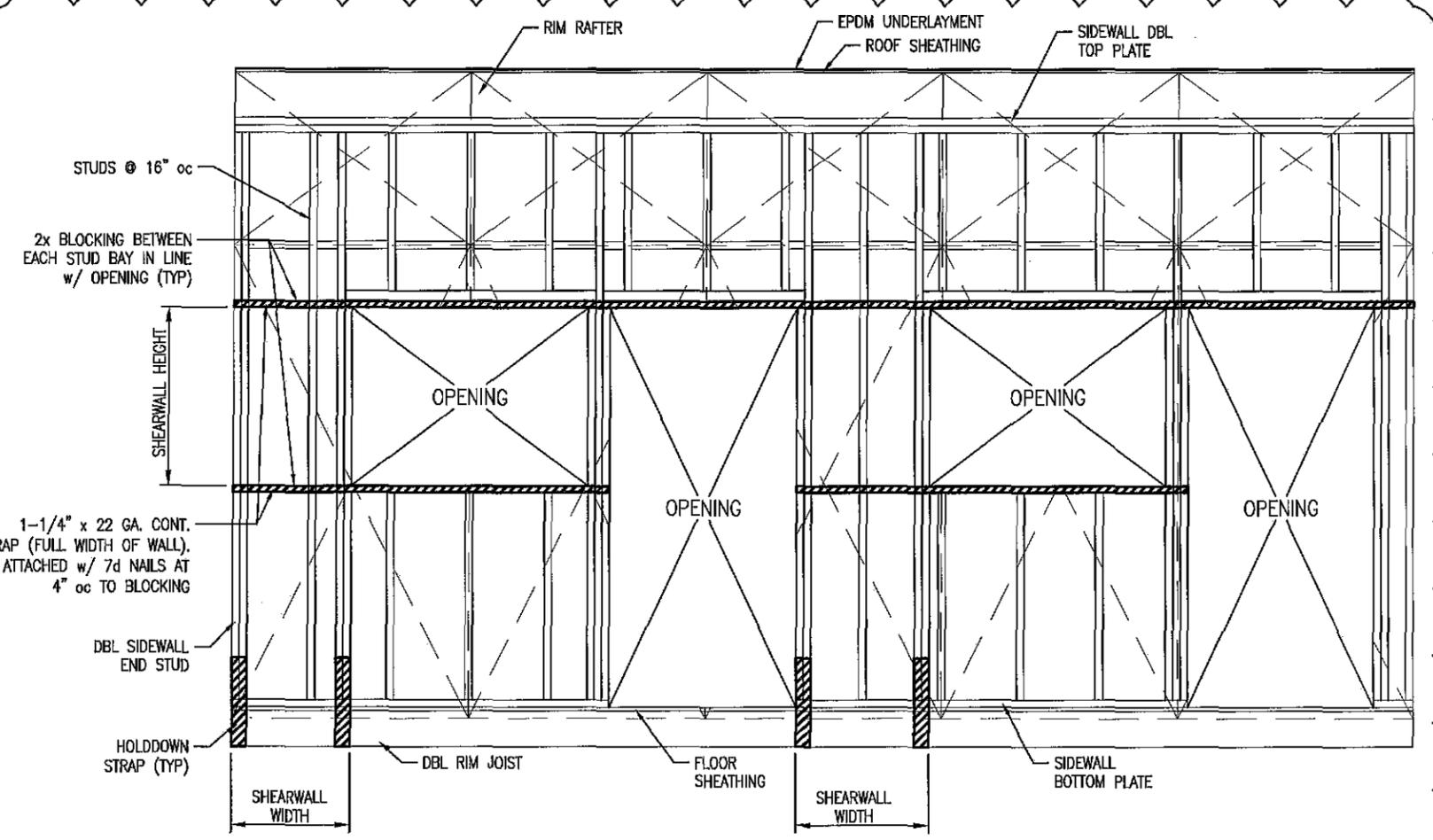
2 ELEVATION 'C'
3/16"=1'-0"



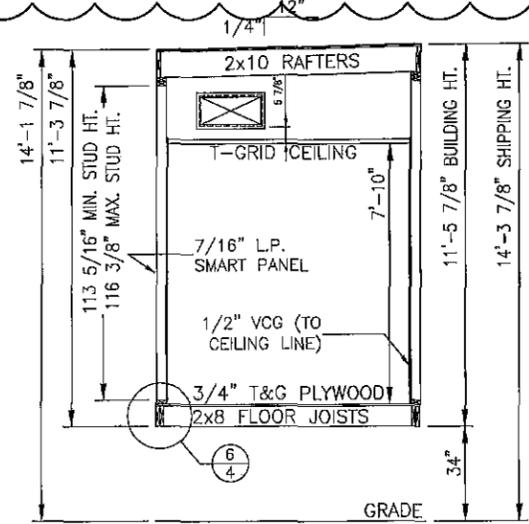
3 ELEVATION 'A'
3/16"=1'-0"



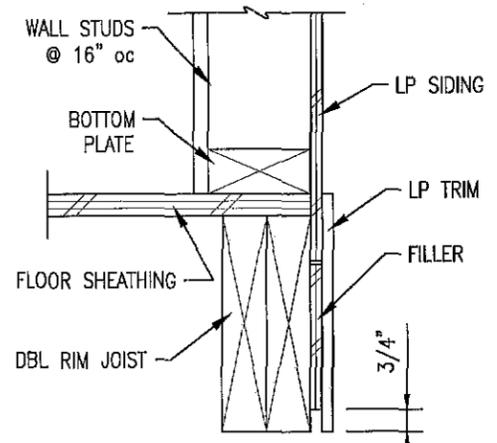
4 ELEVATION 'D'
3/16"=1'-0"



7 SHEARWALL DETAIL
N.T.S.



5 CROSS SECTION
3/16"=1'-0"



6 WALL FINISH @ FLOOR
N.T.S.

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DESIGN SPACE MODULAR BUILDINGS

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OFFICE

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CALIFORNIA

SERIAL NUMBERS:
PMI-3824-920

DRAWN BY:
RM/BS

PLOT DATE:
11/2/2018

REV # / DATE:
1 P.R. #1-2 02/02/18
2 P.R. #3 02/23/18
3 PR#4 03/15/18

R. MARK STEELE, P.E.
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(602) 327-4769

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SHEET:
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OF
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DRAWING INDEX

- SHEET 1: SPECIFICATIONS AND CONDITIONS
- SHEET 2: FLOOR PLAN, ELECTRICAL PLAN, DOOR SCHEDULE, ELECTRICAL SCHEDULE, PLUMBING SCHEDULE, ELECTRICAL PANEL
- SHEET 3: REFLECTED CEILING PLAN, HVAC PLAN, HVAC SCHEDULE, CROSS SECTION
- SHEET 4: DETAILS
- SHEET 5: ELEVATIONS
- SHEET 6: PLUMBING ISO

DEALER:

DSMBI

PROJECT:

NAVIGATION CENTER

14' X 40'

PMI-3825-1440

MANUFACTURER:

MANUFACTURER & ADDRESS PHOENIX MODULAR
5301 W. MADISON ST.
PHOENIX, AZ. 85043
PHOENIXMODULAR.COM
(SEE WEBSITE FOR WARRANTY INFORMATION)

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
BUILDING SQ.FT. 500
TYPE OF CONSTRUCTION. VB
OCCUPANCY USE GROUP. B
OCCUPANCY LOAD. 12
FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated) (100 psf. @ corridor)
ROOF LIVE LOAD. 20 psf.
ROOF SNOW LOAD. 15 psf.
WIND LOAD. 2016 CBC - 115 MPH, EXP. C
OCCUPANCY/RISK CATG. II
SEISMIC Ss=3.730, S1=1.389
Site Class 'D'
Design Category 'E'
PERMISSIBLE GAS TYPE. N/A
CLIMATE ZONE. 3 (PRESCRIPTIVE)

NAME AND DATE OF CODES:
CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC, 2016 CA Energy, & CBC Chapter 11B Accessibility

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
INSTALLED AT. FACTORY
CONTRACTED BY. DEALER
INSTALLED BY. SUMMIT FIRE PROTECTION

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. N/A
5. N/A
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORRED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 880 BRYANT STREET
AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE. SHOWERS
3. SET TYPE PAD/PIER ABOVE GRADE

PHOENIX MODULAR

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DEALER:
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PROJECT:
NAVIGATION CENTER

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3825-1440

DRAWN BY:
KN/BS

PLOT DATE:
3/28/2018

REV # / DATE:
#1 2/8/2018 PR#2
#2 2/22/2018 PR#4
#3 3/15/2018 PR#5

FRAME / CHASSIS:

Frame Type: Basement
Quantity: (1) EA
Size: 12'-6" x 40'-0"
Type: Outrigger @ 96 in O.C.
Crossmember @ 96 in. O.C.
Main Rails @ 99 1/2 in. O.C.
Beam Size: 12 in. Jr. I-beam
Axles: Quad 6000# rated with (All) brake
Hitch: Detachable
Tires: 8x14.5 14 ply rated

Additional Frame / Chassis Items Included in Quoted Price:
Item 1: M.R. Steel Metal frames.

FLOOR CONSTRUCTION:

Floor Joist: 2X8 #2 HF equal or better
Joist Length: 143-7/8 in.
Joist Spacing: 16 in. O.C.
Floor: Double layer 3/4 in. Sturd-I-Floor.
Insulation: R-19 unfaced fiberglass batt
Bottom: Reinforced Plastic

Additional Floor Items Included in Quoted Price:
Item 1: 2nd layer of 3/4" Deck left out at showers (See Detail Wallset Sheet)

EXTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C.
Top Plate: Double 2X4 #2 HF equal or better
Bottom Plate: Single 2X4 #2 HF or better
Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)
Insulation: R-13 Kraft back fiberglass batt
Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment. (Leave Siding Loose @ ADA shower stalls for plumbing installation)
Sidewall Height: See cross section for heights

Additional Exterior Wall Items Included in Quoted Price:
N/A

INTERIOR WALL CONSTRUCTION:

Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c.
Top plate: Single 2X4 #2 HF equal or better (Double as needed)
Bottom plate: Single 2X4 #2 HF or better bottom plate
Stud length: 92-5/8 in. (Ceiling Ht.), FULL HT. (Dividing Walls Only)(See Hatching)
Insulation: R-11 unfaced battens (Dividing Walls Only) FULL HT. (See Hatching)

Additional Interior Wall Items Included in Quoted Price:
N/A

ROOF CONSTRUCTION:

Roof Type: Mono (slope towards doors)
Roof Slope: 1/4 to 12
Rafter size: 2X10 #2 HF equal or better
Rafter Length: 147 in.
Spacing: 16 in. O.C.
Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting
Sheathing: 1/2 in. 24/0 Sheathing (FULLY BLOCKED)
Roofing: 45 mil single ply EPDM over 1/4" Densdeck
Color: White

Additional Roof Items Included in Quoted Price:
Item 1: 1/2" GYP (T,T & P) @ Rafters (Janitor's)

FINISHES:

FLOOR COVERING
Type 1: 0.080 Self Cove Linoleum covered up wall (6 in. min)
Location: (Thru-Out)
Color to be: (White Cliff)

BASE
Cove Base 1: 6 in. Self Cove. (See Floor Covering)
Location: (Thru-Out)

WALLS
Covering 1: FRP over 1/2 in. GYP to 8'
1/2 in. GYP (T,T & P) remainder way to Rafters
Location: (Janitors)
Covering height: 8 ft
Color: FRP (White), TT&P (White)

Covering 2: FRP over 1/2 in. MR GYP to Ceiling Height, Raw 1/2 in. MR GYP remainder way to Rafters.
Location: (Full Height Interior Walls Only)
Covering height: 8 ft.
Color: (White)
Covering 3: FRP over 1/2 in. MR GYP to Ceiling Height
Location: (Remainder)
Covering height: 8 ft.
Color: (White)

TRIM
Wall Trim 1: FRP trim
Color to be: (White)
Wall Trim 2: Square Cornerbead

CEILING
Type 1: 1/2 in. Sheetrock (Taped, Textured, & Painted)
Height: Bottom of Rafters
Location: (Janitor)
Color: (White)
Type 2: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires
Armstrong Kitchen Zone #672 (VINYL WASHABLE) or Equal
Height: 7'-10"
Location: (Remainder)

EXTERIOR
Siding body: Color: (MAJESTIC BLUE) 8 ft. sheets
Hood: Color: (MAJESTIC BLUE)
Corner trim: Color: (MAJESTIC BLUE)
Door & window trim: Color: (MAJESTIC BLUE)
Bottom horizontal trim: Color: (MAJESTIC BLUE)
Intermediate horizontal trim: Color: (MAJESTIC BLUE) separates hood & body
Top horizontal trim: Color: (MAJESTIC BLUE)
Module line trim: Color: (Match hood above intermediate horizontal trim & match body below)
All paint to be: Satin Finish

EXTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: None Provided

CLOSEUP:
Type: Single Unit
Notes: Module NOT TO exceed 14'-0"

APPLIANCES:
None provided

ACCESSORIES:
Cabinets: None provided
Counters: None provided
Shelving: None provided

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SHEET:
1
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6

R. MARK STEELE, P.E.
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DEALER:
 DSMBI

PROJECT:
 NAVIGATION CENTER

STATES:
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 PMI-3825-1440

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STRUCTURAL LEGEND

| | |
|--|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

PLUMBING SCHEDULE

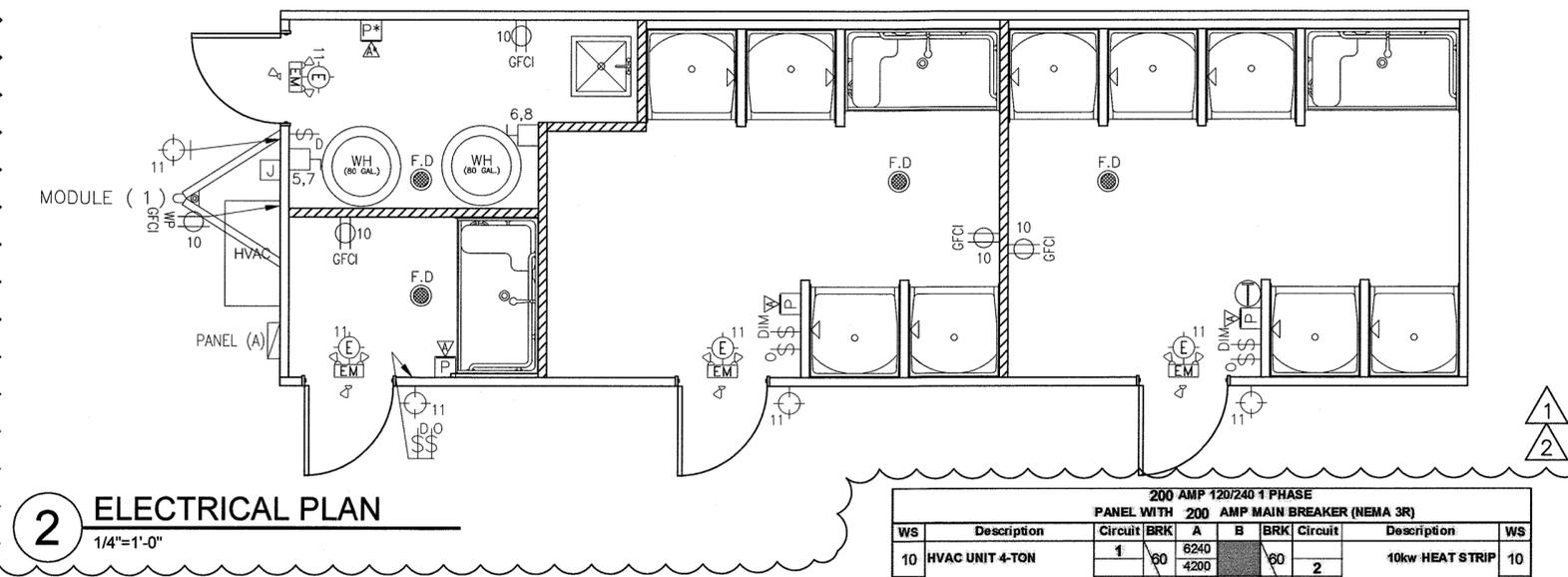
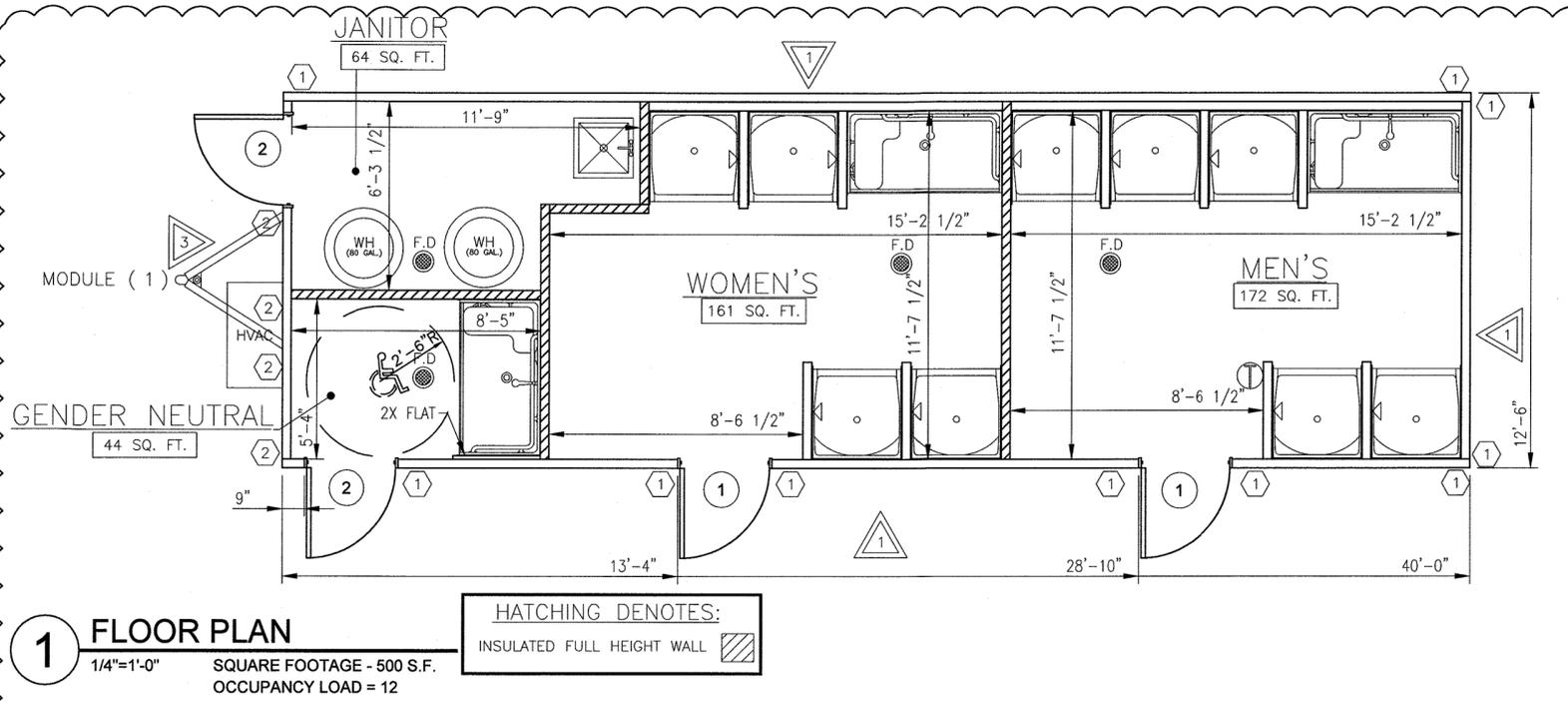
| SYMBOL | DESCRIPTION | QTY |
|--------|--|-----|
| | RECESSED HANDICAP SHOWER, (1) CURTAIN ROD, (1) HOOK (1) CURTAIN & (1) WATER DAM ROUGH OPENING: 62" w x 33.1/2" d. (FLORESTONE 35-62H) LOW FLOW | 3 |
| | 36" x 36" STANDARD SHOWER W/ FAUCETS, CURTAIN ROD, AND CURTAIN. LOW FLOW | 9 |
| | 80 GAL. HYBRID ELECTRIC HEAT PUMP WATER HEATER (240V) EACH WATER HEATER TO INCLUDE: - WATER TIGHT PAN WITH A 3/4" DRAIN. - EXPANSION TANK - INSULATION (R3.7 MIN) FIRST 8' OF HOT/COLD LINES - SEISMIC STRAPS - PROVISION FOR CONDENSATE DRAINING (FROM HEAT PUMP) - VENTING PROVISIONS: AIR DUCT INLET: AO SMITH 9910005000 (VENTED THRU HOOD) AIR DUCT OUTLET: AO SMITH 9910006000 (VENTED THRU ROOF) WATER HEATER BRAND: AO SMITH FPTU VORTEX NOTE: ALL VENTING DUCTS TO BE #8" AND INSULATED (R-6). SEE DETAILS D/4, E/4 & F/4 FOR WATER HEATER VENTING. | 2 |
| | FLOOR MOUNT MOP SINK W/ WALL MOUNTED FAUCET (NO BRAND SPECIFIED) | 1 |
| | 2" FLOOR DRAIN W/TRAP GUARD (NO BRAND SPECIFIED) | 4 |

NOTE: 1. INCLUDE IN-LINE STRAINER
 2. INCLUDE (6) CALIFORNIA ADA RESTROOM SIGNS. (1) ON DOOR, (1) ON WALL.

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | QTY | REMARKS |
|--------|--|-------|---------------------------------|
| | 200 AMP 1 PHASE 120/240 W/200 AMP MAIN, 6" A.F.F. TO BOT. OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 |
| | 30 AMP INTENT DISCONNECT MOUNTED @ 60" A.F.F. (U.N.O.) (SINGLE PHASE) | N/A | 2 FOR WATER HEATER DISCONNECT. |
| | GROUND FAULT CIRCUIT INTERRUPT RCPT. W/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 4 |
| | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 16" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 |
| | WALL MNT'D DIMMING SWITCH W/ COVER PLATE @ 46" A.F.F. LUTRON DTV (OR EQUAL) | IVORY | 2 LIGHTS |
| | WALL MNT'D OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. WATTSUPER IS0-50V (OR EQUAL) | IVORY | 3 FAN |
| | WALL MNT'D DIMMING/OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. LUTRON MS-7101 (OR EQUAL) | IVORY | 2 LIGHTS |
| | CEILING MNT'D OCCUPANCY SENSOR (CH-205) W/ POWER PACK (62-150) OR EQUAL | WHITE | 2 |
| | 2x4 HW J-BOX @ RAFTERS W/COVER PLATE U.N.O. | N/A | 3 FOR FUTURE USE |
| | 6x6x6 NEMA 3R J-BOX SEMI-RECESSED MNT'D @ 16" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 FOR FUTURE INLET |
| | 70 CFM CEILING EXHAUST FAN ONLY BRAND: BROWN 671 (OR EQUAL) | N/A | 1 THRU WALL |
| | 150 CFM CEILING EXHAUST FAN ONLY BRAND: BROWN 671 (OR EQUAL) | N/A | 4 THRU WALL |
| | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 (PROGRAMMABLE) |
| | 1x4 - LED TRACE-LITE SURFACE MOUNTED (W/ALED4T-40-4KW-ET) | N/A | 1 DIMMABLE |
| | 2x4-LED 4200 LUMENS FIXTURE, RECESSED, DIFFUSED (NO BRAND SPECIFIED) | N/A | 5 DIMMABLE |
| | PORCH LIGHTS @ 02" A.F.F. U.N.O. BRAND: WESTGATE LSW 22CW-PC | N/A | 4 w/ PHOTOCCELL ON LIGHT |
| | WALL MNT EMERGENCY LIGHT /w RED EXIT LIGHT MNT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 88" A.F.F. | N/A | 4 OCTAGONAL BOX FOR REMOTE HEAD |
| | 4x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 3 FOR FUTURE AUDIO/VISUAL |
| | 4x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED @ 102" A.F.F. (SURFACE MOUNTED) W/ COVER PLATE U.N.O. | IVORY | 1 FOR FUTURE AUDIO/VISUAL |
| | 2x4 HW J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ COVER PLATE (U.N.O.) | IVORY | 3 FOR FUTURE PULL STATION |
| | 2x4 HW J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED @ 102" A.F.F. (SURFACE MOUNTED) W/ COVER PLATE (U.N.O.) | IVORY | 1 FOR FUTURE PULL STATION |

NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)



200 AMP 120/240 1 PHASE PANEL WITH 200 AMP MAIN BREAKER (NEMA 3R)

| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
|----|--|---------|-----|-------|-------|-------|-----------------------|-------------|----|
| 10 | HVAC UNIT 4-TON | 1 | 60 | 6240 | 60 | 2 | 10kw HEAT STRIP | 10 | |
| 6 | | 3 | 2 | 6240 | 2 | 4 | | 6 | |
| 10 | WATER HEATER | 5 | 30 | 2813 | 30 | 6 | WATER HEATER | 10 | |
| 10 | | 7 | 2 | 2813 | 2 | 8 | | 10 | |
| | Space | 9 | | 900 | | 10 | (4) GFCI, (1) WP GFCI | 12 | |
| 12 | (6) LEDS, (4) PORCH LITES, (4) EM/EX LITES, (5) FANS | 11 | 20 | | 1155 | | SPACE | 12 | |
| 12 | HW J-BOX | 13 | 20 | 1800 | | 14 | HW J-BOX | 12 | |
| | Space | 15 | | 1800 | | 16 | HW J-BOX | 12 | |
| | | | | 20566 | 19021 | Total | | | |

ELECTRICAL CALCULATION:
 GENERAL LIGHTING:
 422 LIGHTS x 125% = 1846 watts
 5 RECEPTACLES = 900 watts
 1 HVAC UNITS = 20880 watts
 2 WATER HEATER = 11252 watts
 3 HW J-BOX = 5400 watts

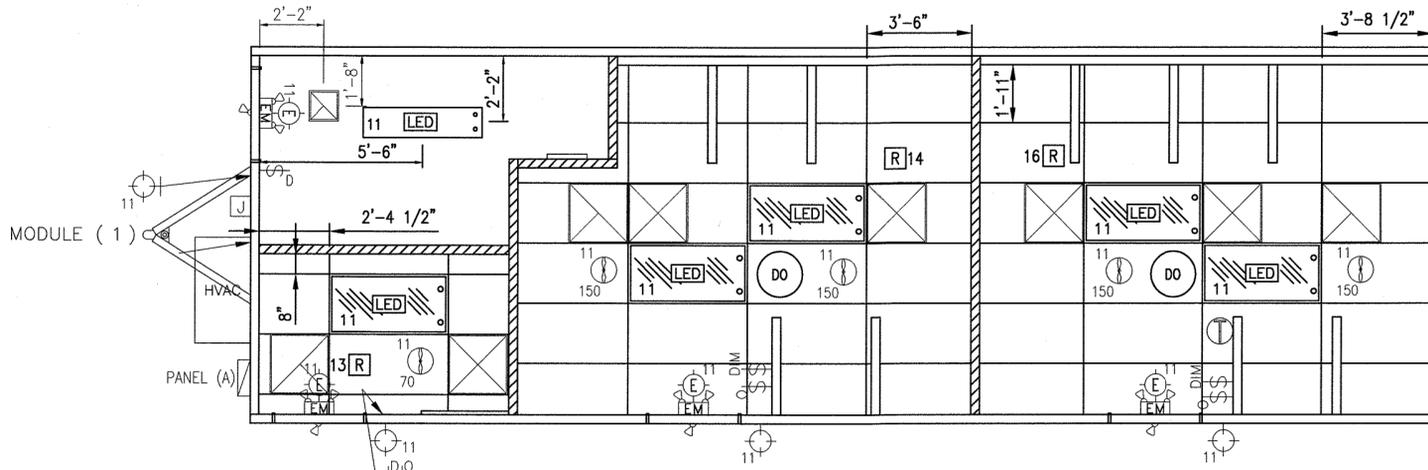
PANEL A
 TYPE OF PANEL: LOAD CENTER

40278 watts divide by 240volts = 167.8 AMPS TOTAL

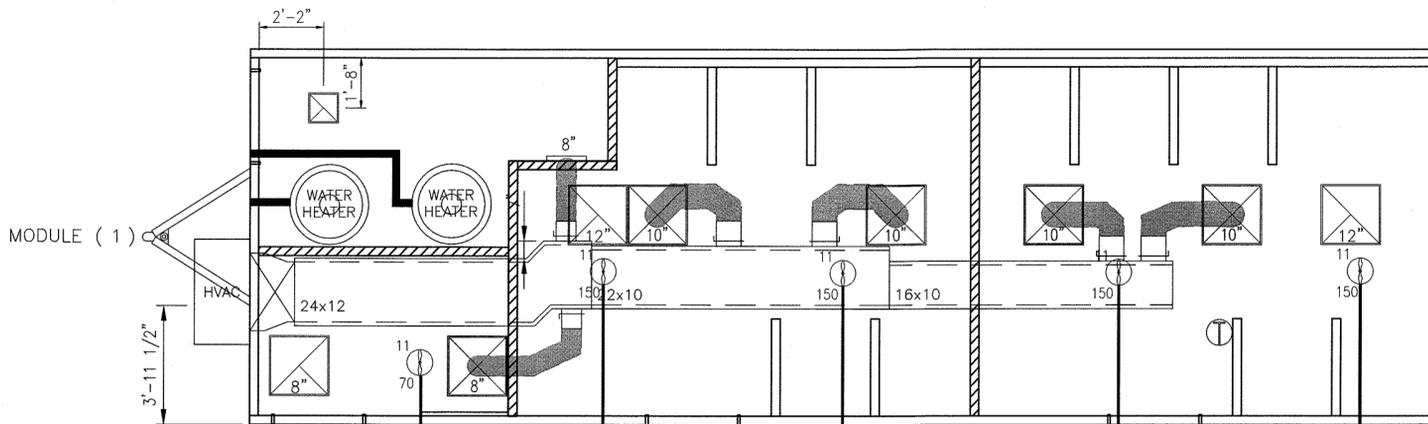
DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|------------------------------------|-------------------------|----------------|---------|------|---------------|----------|--|-----------|-----------------|-----------------------------|-------------|--------|--|
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. MAJESTIC BLUE | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | DOUBLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP (INCLUDE SIGN: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED) |
| 2 | 2 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. MAJESTIC BLUE | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

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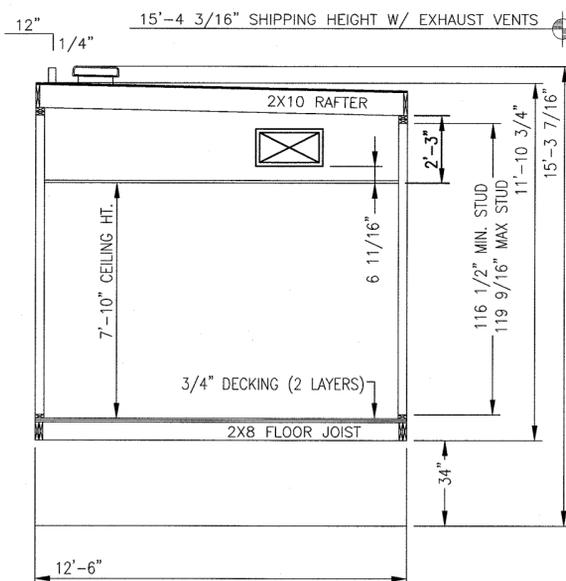
1 REFLECTED CEILING PLAN
1/4"=1'-0"



2 HAVC PLAN
1/4"=1'-0"

| HVAC SCHEDULE | | |
|---------------|--|-----|
| SYM | DESCRIPTION | QTY |
| HVAC | 4 TON H/P W/ 10 IN. HEAT STRIP (F.A.D.) W/ 100% FRESH AIR KIT (MERV 8 FILTER) MODEL # (W4BH2-A10) OR EQUAL | 1 |
| □ | 31"x11" TO 24"x12" GALV. SLEEVE 16" LONG | 1 |
| □ | 24"x12"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 22"x10"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 16"x10"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 24"x24" 4-WAY THROW DIFFUSER. 8" COLLAR W/ SCOOP & DAMPER 8" FLEX. 8" START COLLAR. | 1 |
| □ | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER, 10" FLEX. 10" START COLLAR. | 4 |
| □ | 24"x24" RELIEF DAMPER. 8" FLEX TO 8" ROOF VENT | 1 |
| □ | 24"x24" RELIEF DAMPER. 12" FLEX TO 12" ROOF VENT | 2 |
| □ | 12"x12" RELIEF DAMPER. 8" ROOF VENT SEE DETAIL G/4 | 1 |
| □ | 8"x6" 2-WAY SUPPLY WALL REGISTER MOUNTED AT 102" A.F.F. 8"x8" BOX WITH 8" COLLAR W/ SCOOP & DAMPER, 8" FLEX. | 1 |

NOTE: INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS.



3 BUILDING CROSS SECTION
1/4"=1'-0"

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DSMBI

PROJECT:
NAVIGATION CENTER

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3825-1440

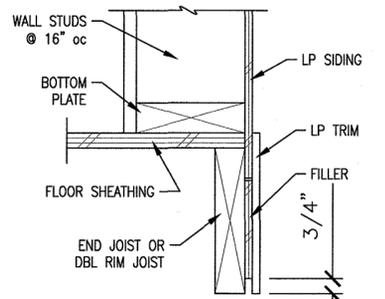
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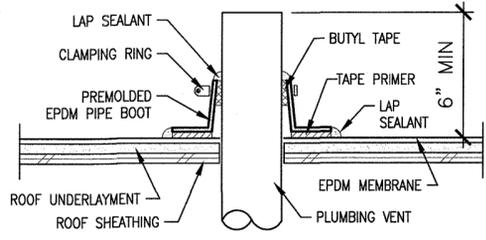
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#2 2/22/2018 PR#4
#3 3/15/2018 PR#5

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CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR. BLDG. C #C206
PHOENIX, AZ. 85029
(602) 327-4769

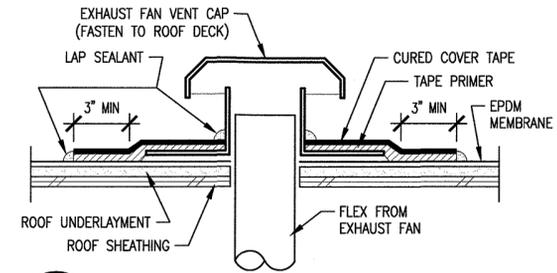
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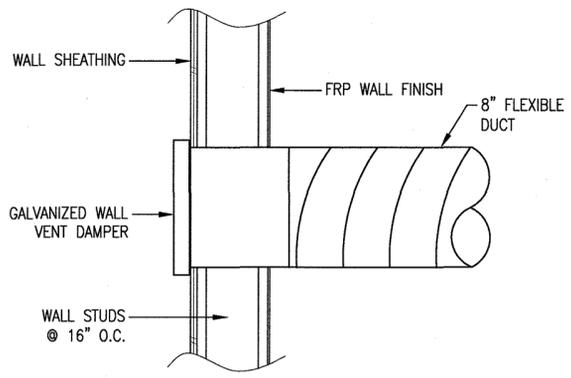
A
4
DETAIL
N.T.S. (WALL FINISH @ FLOOR)



B
4
DETAIL
N.T.S. (PLUMBING VENT-FACTORY INSTALLED)



C
4
DETAIL
N.T.S. (EXHAUST VENT CAP-FACTORY INSTALLED)



D
4
DETAIL
N.T.S. (HYBRID WATER HEATER VENTING THRU EXTERIOR WALL)

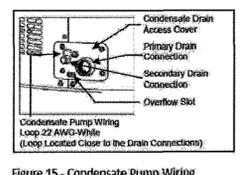
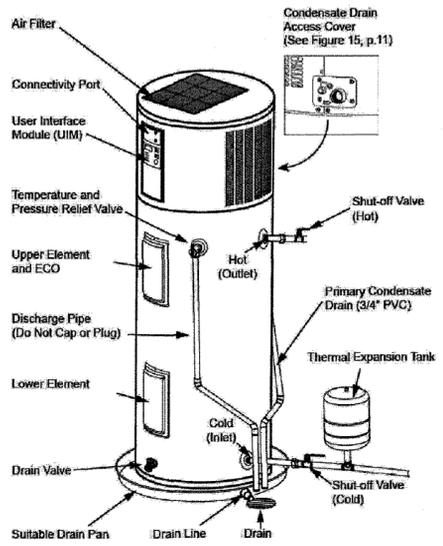
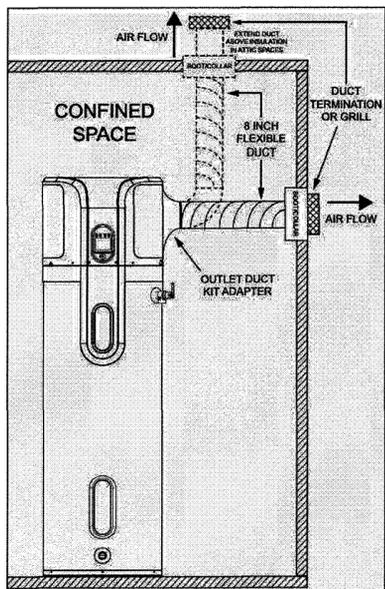


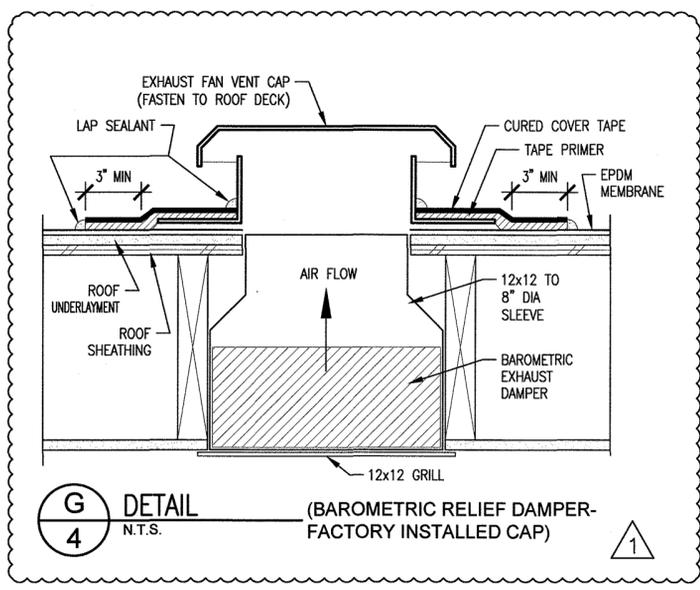
Figure 15 - Condensate Pump Wiring



E
4
DETAIL
N.T.S. (HYBRID WATER HEATER INSTALLATION SETUP)



F
4
DETAIL
N.T.S. (HYBRID WATER HEATER VENTING ASSEMBLY)



G
4
DETAIL
N.T.S. (BAROMETRIC RELIEF DAMPER-FACTORY INSTALLED CAP)

PHOENIX MODULAR
3301 W. MADISON ST. - PHOENIX, AZ 85043
PH 602-447-6460 FAX 602-447-6476
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SHEET:
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6

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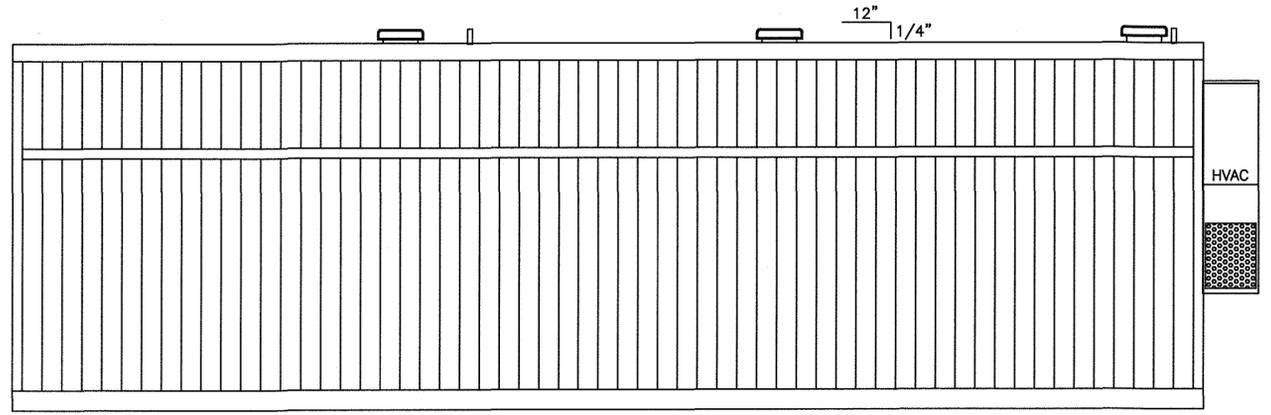
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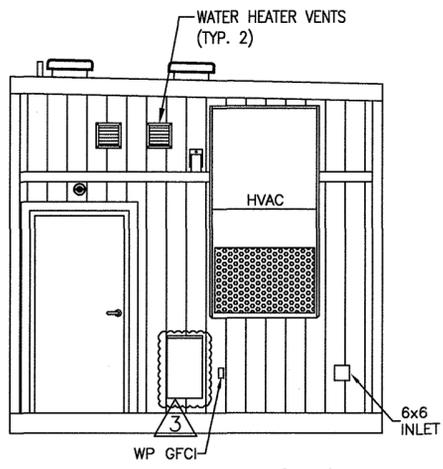
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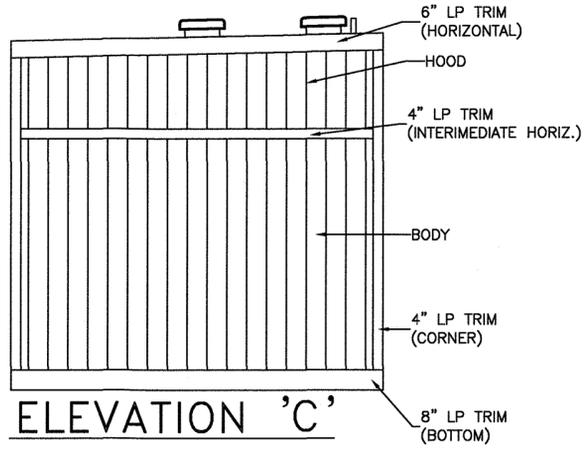
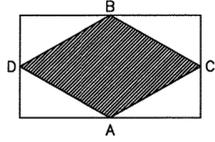
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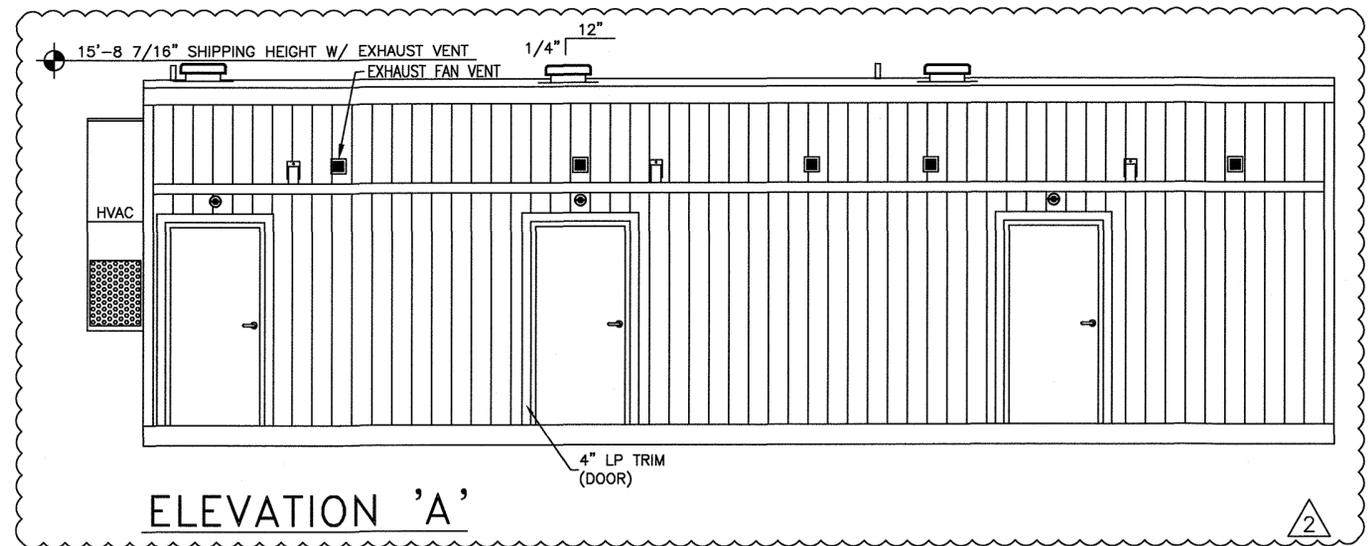
ELEVATION 'B'



ELEVATION 'D'



ELEVATION 'C'



ELEVATION 'A'

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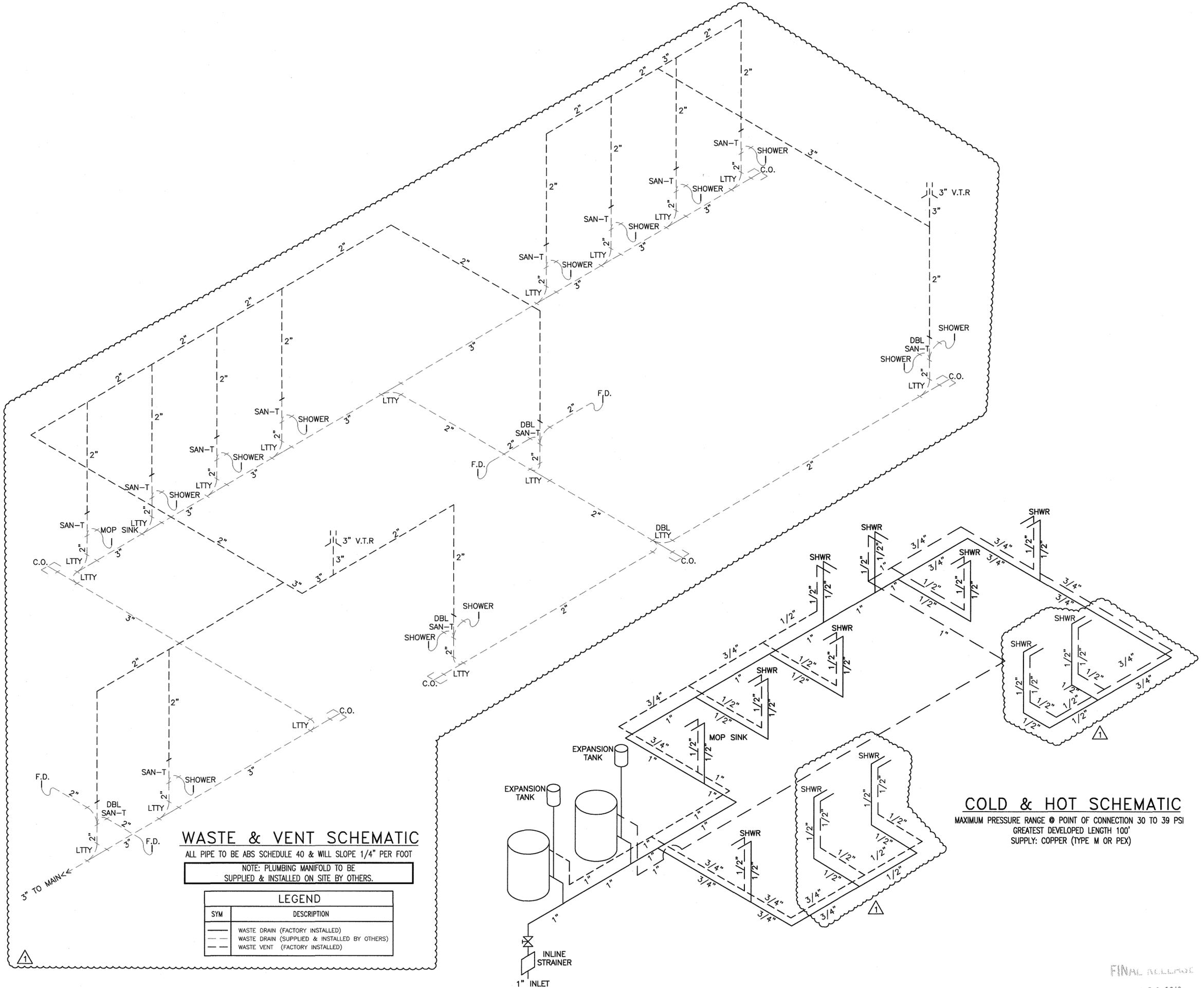
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6
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6

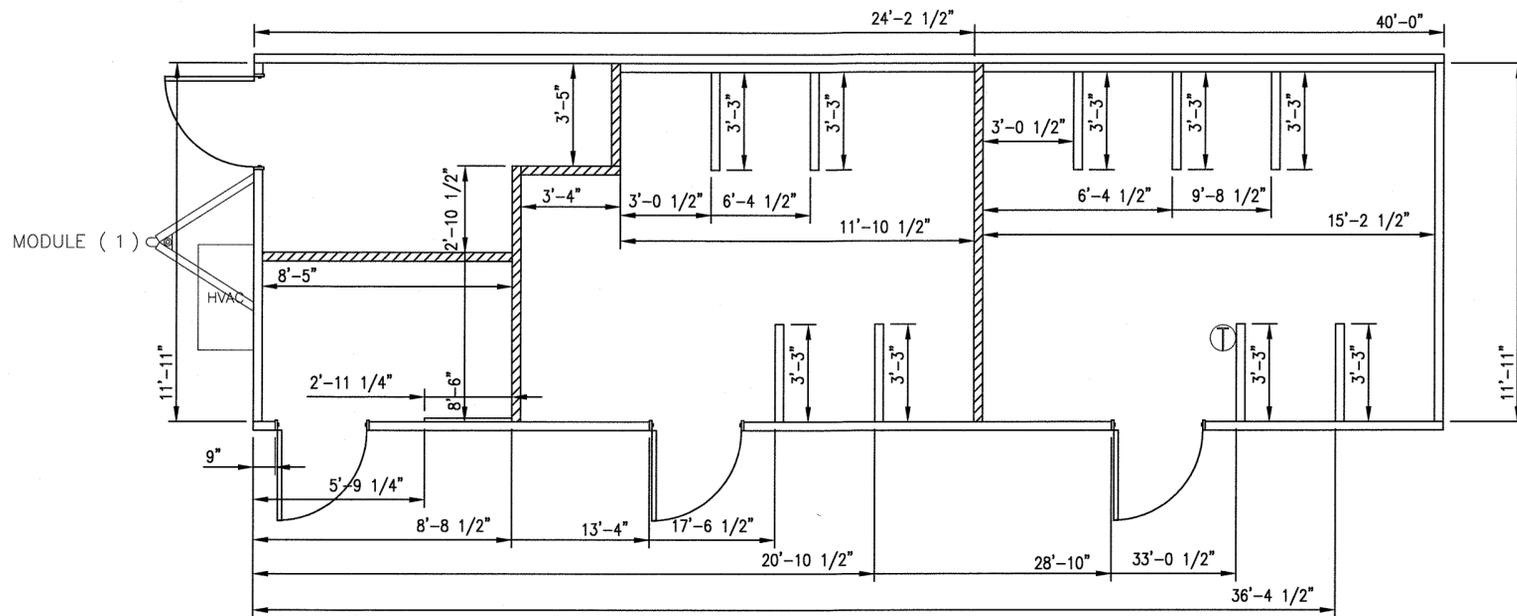


COLD & HOT SCHEMATIC

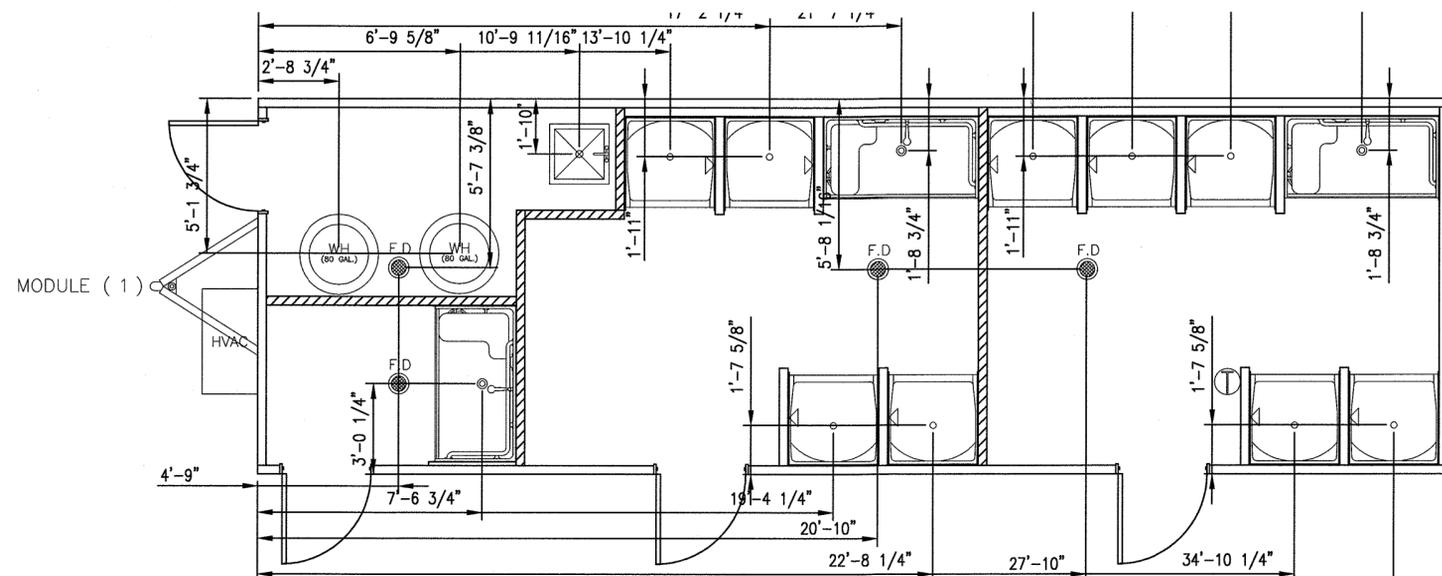
MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 30 TO 39 PSI
 GREATEST DEVELOPED LENGTH 100'
 SUPPLY: COPPER (TYPE M OR PEX)

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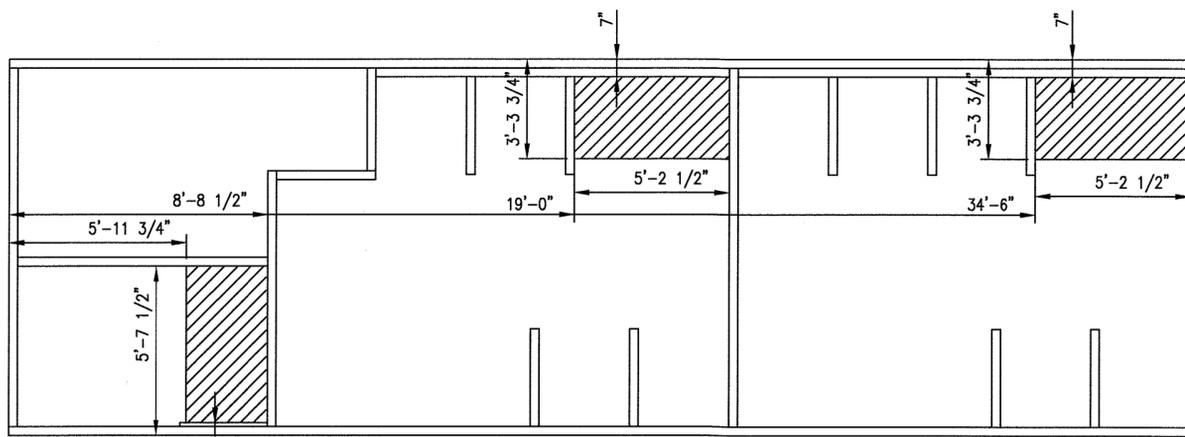
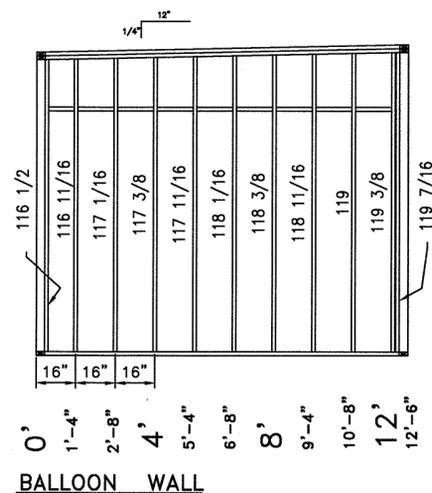
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1 WALL SET PLAN
1/4"=1'-0"



2 PLUMBING SET
1/4"=1'-0"



2 SHOWER RECESSED PLAN
1/4"=1'-0"

HATCHING DENOTES:
DECKING LEFT OUT FOR SHOWERS

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PHOENIX MODULAR
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PHOENIX, AZ. 85029
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SHEET:
WS
OF
6

| DRAWING INDEX | |
|---------------|--|
| SHEET 1: | SPECIFICATIONS AND CONDITIONS |
| SHEET 2: | FLOOR PLAN, ELECTRICAL PLAN, PLUMBING SCHEDULE, ELECTRICAL SCHEDULE, DOOR SCHEDULE |
| SHEET 3: | REFLECTED CEILING PLAN, HVAC PLAN, HVAC SCHEDULE, ELECTRICAL PANEL, DETAILS |
| SHEET 4: | CROSS SECTION, ELEVATIONS |
| SHEET 5: | PLUMBING ISO |

DEALER:
 DSMBI
PROJECT:
 NAVIGATION CENTER
 12' X 40'
 PMI-3826-1240

| MANUFACTURER: | |
|---|--|
| MANUFACTURER & ADDRESS | PHOENIX MODULAR 5301 W. MADISON ST. PHOENIX, AZ. 85043 PHOENIXMODULAR.COM |
| (SEE WEBSITE FOR WARRANTY INFORMATION) | |
| DESIGN CRITERIA / LOADS: | |
| NO OF MODULES. | 1 |
| BUILDING SQ.FT. | 440 |
| TYPE OF CONSTRUCTION. | VB |
| OCCUPANCY USE GROUP. | B |
| OCCUPANCY LOAD. | 17 |
| FLOOR LIVE LOAD. | 50 psf. (2000 lb concentrated) (100 psf. @ corridor) |
| ROOF LIVE LOAD. | 20 psf. |
| ROOF SNOW LOAD. | 15 psf. |
| WIND LOAD. | 2016 CBC - 115 MPH, EXP. C |
| OCCUPANCY/RISK CATG. | II |
| SEISMIC | Ss=3.730, S1=1.389 Site Class 'D' Design Category 'E' |
| PERMISSIBLE GAS TYPE. | N/A |
| CLIMATE ZONE. | 3 |
| NAME AND DATE OF CODES: CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC, 2016 CA Energy, & CBC Chapter 11B Accessibility | |

PHOENIX MODULAR

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| FRAME / CHASSIS: | |
|--|--|
| Frame Type: | Basement |
| Quantity: | (1) EA |
| Size: | 11'-8" x 40'-0" |
| Type: | Outrigger @ 96 in. O.C. Crossmember @ 96 in. O.C. Main Rails @ 99 1/2 in. O.C. |
| Beam Size: | 12 in. Jr. I-beam |
| Axles: | Quad 6000# rated with (All) brake |
| Hitch: | Detachable |
| Tires: | 8x14.5 14 ply rated |
| Additional Frame / Chassis Items Included in Quoted Price: Item 1: M.R. Steel Metal frames. | |

| FLOOR CONSTRUCTION: | |
|---|-------------------------------------|
| Floor Joist: | 2X8 #2 HF equal or better |
| Joist Length: | 133-7/8 in. |
| Joist Spacing: | 16 in. O.C. |
| Floor: | Single layer 3/4 in. Sturd-I-Floor. |
| Insulation: | R-19 unfaced fiberglass batt |
| Bottom: | Reinforced Plastic |
| Additional Floor Items Included in Quoted Price: N/A | |

| EXTERIOR WALL CONSTRUCTION: | |
|---|---|
| Framing: | Stud: 2X4 #2 HF equal or better @ 16 in. O.C. Top Plate: Double 2X4 #2 HF equal or better Bottom Plate: Single 2X4 #2 HF or better Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO) |
| Insulation: | R-13 Kraft back fiberglass batt |
| Siding Type: | 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment. |
| Sidewall Height: | See cross section for heights |
| Additional Exterior Wall Items Included in Quoted Price: N/A | |

| INTERIOR WALL CONSTRUCTION: | |
|---|---|
| Framing: | Stud: 2X4 #2 HF equal or better @ 16 in. o.c. Top plate: Single 2X4 #2 HF equal or better (Double as needed) Bottom plate: Single 2X4 #2 HF or better bottom plate Stud length: 92-5/8 in. (Ceiling Ht.), Full Ht. (Dividing Walls only) |
| Insulation: | R-11 unfaced battens (Dividing Walls only) Full Ht. (See Hatching) |
| Additional Interior Wall Items Included in Quoted Price: N/A | |

| ROOF CONSTRUCTION: | |
|--|---|
| Roof Type: | Mono (slope towards doors) |
| Roof Slope: | 1/4 to 12 |
| Rafter size: | 2X10 #2 HF equal or better |
| Rafter Length: | 137 in. |
| Spacing: | 16 in. O.C. |
| Insulation: | R-38 CATHEDRAL unfaced fiberglass batt with support netting |
| Sheathing: | 1/2 in. 24/0 Sheathing (FULLY BLOCKED) |
| Roofing: | 45 mil single ply EPDM over 1/4" Densdeck Color: White |
| Additional Roof Items Included in Quoted Price: N/A | |

| FINISHES: | |
|-------------------------------|---|
| FLOOR COVERING | |
| Type 1: | 0.080 Self Cove Linoleum covered up wall (6 in. min) Location: (Thru-Out) Color to be: (White Cliff) |
| BASE | |
| Cove Base 1: | 6 in. Self Cove. (See Floor Covering) Location: (Thru-Out) |
| WALLS | |
| Covering 1: | FRP over 1/2 in. MR GYP to Ceiling Height, Raw 1/2 in. MR GYP remainder way to Rafters. Location: (Full Height Walls Only) Covering height: 8 ft. Color: (White) |
| Covering 2: | FRP over 1/2 in. MR GYP to Ceiling Height, Location: (Remainder) Covering height: 8 ft. Color: (White) |
| TRIM | |
| Wall Trim 1: | FRP Trim Color to be: (To match FRP) |
| CEILING | |
| Type 1: | 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires (Armstrong Kitchen Zone #672 (VINYL WASHABLE) or Equal) Height: 7'-10" |
| EXTERIOR | |
| Siding body: | Color: (MAJESTIC BLUE) 8 ft. sheets |
| Hood: | Color: (MAJESTIC BLUE) |
| Corner trim: | Color: (MAJESTIC BLUE) |
| Door & window trim: | Color: (MAJESTIC BLUE) |
| Bottom horizontal trim: | Color: (MAJESTIC BLUE) |
| Intermediate horizontal trim: | Color: (MAJESTIC BLUE) separates hood & body |
| Top horizontal trim: | Color: (MAJESTIC BLUE) |
| All paint to be: | Satin Finish |

EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)

WINDOWS: (SEE WINDOW SCHEDULE)

CLOSEUP:
Type: Single Unit
Notes: Module NOT TO exceed 12'-0"

APPLIANCES:
None provided

ACCESSORIES:
Cabinets: None provided
Counters: None provided
Shelving: None provided

| SPECIAL CONDITIONS AND OR LIMITATIONS: | |
|--|------------------------|
| SPRINKLERS REQUIRED. | YES |
| INSTALLED AT. | FACTORY |
| CONTRACTED BY. | DEALER |
| INSTALLED BY. | SUMMIT FIRE PROTECTION |

| NOT INCLUDED IN SCOPE OF WORK: | |
|--------------------------------|---|
| 1. | PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT |
| 2. | PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT |
| 3. | ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE |
| 4. | N/A |
| 5. | N/A |
| 6. | ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR |
| 7. | THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL |

IDENTIFICATION:
DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

- SITE PLAN NOT AVAILABLE AT THIS TIME, BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- THIS PLAN MAY BE REVERSED AND/OR MIRRORRED.
- SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
- COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
- TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
- THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

| STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING | |
|--|-------------------------|
| 1. PROPOSED ADDRESS | 680 BRYANT STREET |
| AND/OR LOCATION OF UNIT. | SAN FRANCISCO, CA 94103 |
| 2. EXPLANATION OF BUILDING USE. | RESTROOMS |
| 3. SET TYPE | PAD/PIER ABOVE GRADE |

DEALER:
DSMBI

PROJECT:
NAVIGATION CENTER

SERIAL NUMBER:
PMI-3826-1240

STATES:
CALIFORNIA

DRAWN BY:
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PLOT DATE:
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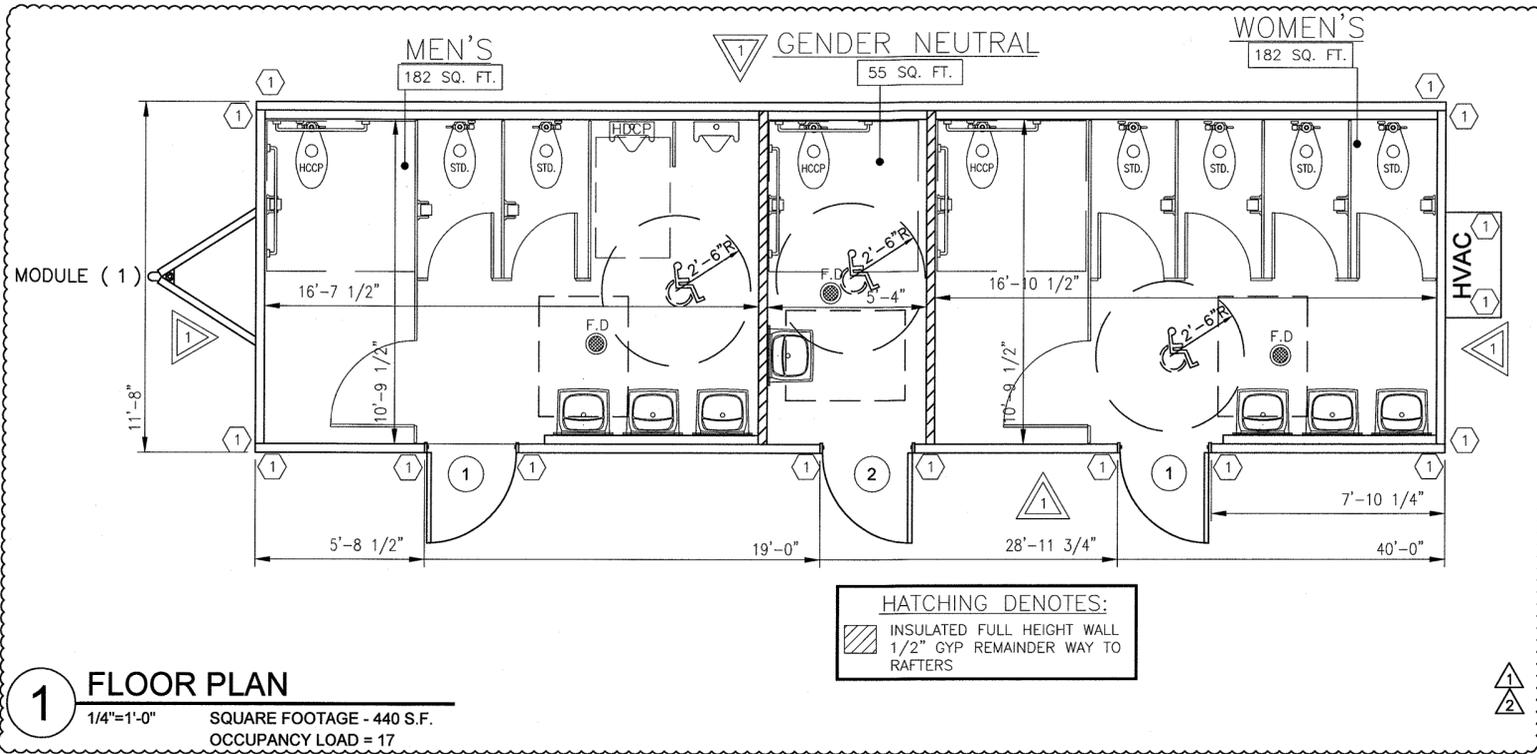
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 #2 2/27/2018 PR#5-6
 #3 3/15/2018 PR#7
 #4 3/26/2018 State Corr.

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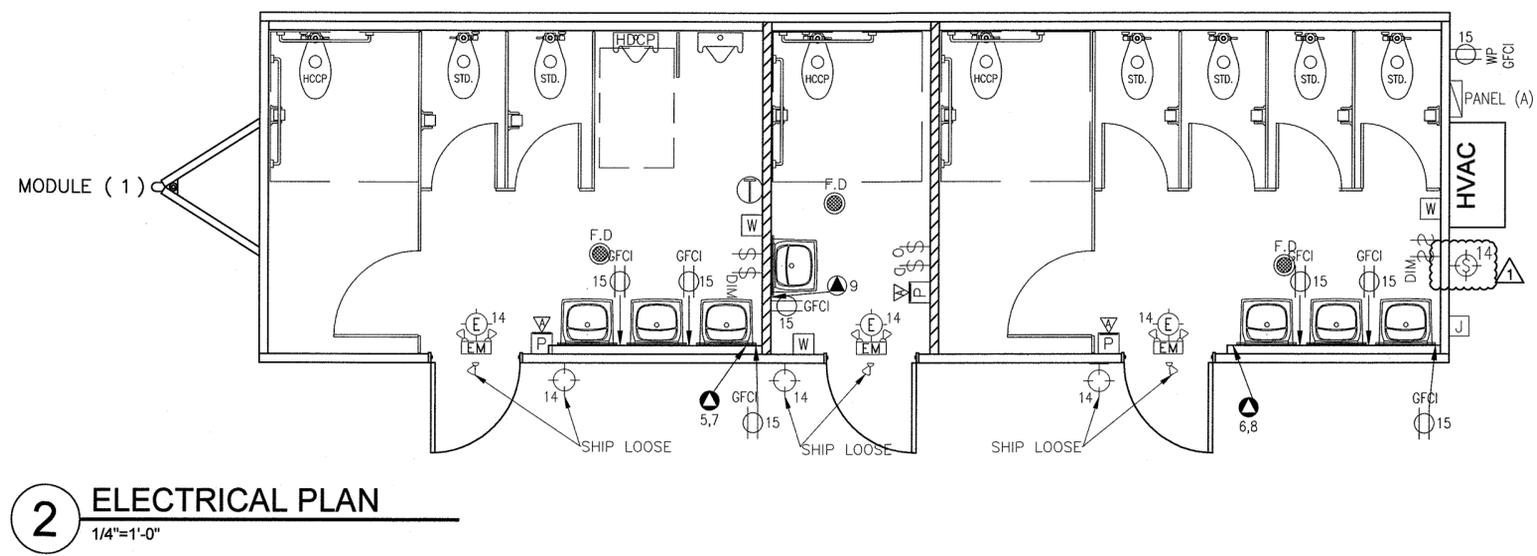
| STRUCTURAL LEGEND | |
|-------------------|--|
| | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

| PLUMBING SCHEDULE | | |
|-------------------|---|-----|
| SYMBOL | DESCRIPTION | QTY |
| | FLOOR MNT'D ELONGATED BOWL FOR HANDICAPPED (KOHLER K-96053-0) w/ TOILET SEAT (KOHLER K-4731-C 0). FLUSHOMETER (ROYAL MODEL 111-1.28 / 3910166). | 3 |
| | FLOOR MNT'D ELONGATED BOWL (KOHLER K-96053-0) w/ TOILET SEAT (KOHLER K-4731-C 0). FLUSHOMETER (ROYAL MODEL 111-1.28 / 3910166). | 6 |
| | WALL MOUNT STANDARD URINAL (HANDICAPPED HEIGHT) MOUNTED AT 17" A.F.F. TO LIP EDGE. (NO BRAND SPECIFIED). | 1 |
| | WALL MOUNT STANDARD URINAL (STANDARD HEIGHT) MOUNTED AT 24" A.F.F. TO LIP EDGE. (NO BRAND SPECIFIED). | 1 |
| | ONE SET GRAB BARS, INCLUDES: (1) 36" LONG & (1) 42" LONG. MOUNTED @ 34" A.F.F. (INCLUDE 18" LONG GRAB BARS) | 3 |
| | TOILET PAPER HOLDER PROVIDED AND INSTALLED ON SITE BY OTHERS. BLOCKING PROVIDED AT FACTORY. | 9 |
| | WALL HUNG LAVATORY w/ 29" SPACE UNDERNEATH RIM FOR HANDICAPPED (KOHLER K-2007-0) w/ GOOSENECK FAUCET (TOTO TEL151-D10ET #CP). INCLUDE P-TRAP COVER. | 7 |
| | 24"x36" MIRROR @ 38" A.F.F. (STAINLESS STEEL FRAME) (NO BRAND SPECIFIED). | 7 |
| | POINT OF USE WATER HEATER (SINGLE LAVY) BRAND: EEMAX SP3512 120V - 3.5kW | 1 |
| | POINT OF USE WATER HEATER (MULTIPLE LAVES) BRAND: CHRONOMITE E-BOFLP 240V - 8kW | 2 |
| | 2" FLOOR DRAIN w/ TRAP GUARD (NO BRAND SPECIFIED) | 3 |

NOTE: 1. INCLUDE IN-LINE STRAINER
2. INCLUDE (6) CALIFORNIA ADA RESTROOM SIGNS. (1) ON DOOR, (1) ON WALL.
3. (8) MODESTY PARTITIONS (BOBRICK)
COLOR: TERRA GOTTA (S033)
4. (3) 3/4" WATER HAMMER ARRESTOR

| ELECTRICAL SCHEDULE | | | | |
|---------------------|---|-------|-----|---|
| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
| | 225 AMP 1 PHASE 120/240V / 225 AMP MAIN. 60" A.F.F. TO TOP OF PANEL/EXT. SURFACE (N.B.S.) | N/A | 1 | |
| | GROUND FAULT CIRCUIT INTERRUPT RCPT. w/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 7 | |
| | GFCI DUPLEX RCPT. w/ WEATHER PROOF COVER PLATE 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | |
| | SINGLE POLE SWITCH w/ COVER PLATE @ 48" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 2 | |
| | WALL MNT'D DIMMING SWITCH w/ COVER PLATE @ 46" A.F.F. LUTRON DVIV (OR EQUAL) | IVORY | 2 | |
| | WALL MNT'D OCCUPANCY SENSOR w/ COVER PLATE @ 46" A.F.F. WATSTOPER 50-DOV (OR EQUAL) | IVORY | 1 | |
| | WALL MNT'D OCCUPANCY SENSOR w/ COVER PLATE @ 46" A.F.F. LUTRON MS-Z101 (OR EQUAL) | IVORY | 1 | |
| | CEILING MNT'D DUAL RELAY OCCUPANCY SENSOR (WATSTOPER 01-300 OR EQUAL) w/ POWER PACK (RD-50) | WHITE | 2 | |
| | HARD WIRED SINGLE GANGED J-BOX FOR INSTA-HOT @ 16" A.F.F. w/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 1 | 120V |
| | HARD WIRED SINGLE GANGED J-BOX FOR INSTA-HOT @ 16" A.F.F. w/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 2 | 240V |
| | 2x4 HW J-BOX @ RAFTERS w/ COVER PLATE U.N.O. | N/A | 3 | FOR FUTURE USE |
| | 150 CFM CEILING EXHAUST FAN ONLY BRAND: BV150UQ (OR EQUAL) | N/A | 4 | THRU WALL |
| | 70 CFM CEILING EXHAUST FAN ONLY BRAND: BROAN 671 (OR EQUAL) | N/A | 3 | THRU WALL |
| | 2x4-LED 4200 LUMENS FIXTURE, RECESSED, DIFFUSED (NO BRAND SPECIFIED) | N/A | 5 | DIMMABLE |
| | PORCH LIGHTS @ 80" A.F.F. U.N.O. BRAND: WESTGATE LSN-22CE-PC | N/A | 3 | SHIPPED LOOSE |
| | WALL MNT'D EMERGENCY LIGHT w/ RED EXIT LIGHT MNT. @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 85" A.F.F. | N/A | 3 | OCTAGONAL BOX FOR REMOTE HEAD SHIPPED LOOSE |
| | 4x4 J-BOX @ 86" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE U.N.O. | IVORY | 3 | FOR FUTURE AUDIO/VISUAL |
| | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 3 | FOR FUTURE PULL STATION |
| | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 3 | FOR FUTURE USE |
| | 4x4 HW J-BOX @ 102" A.F.F. w/ SINGLE MUD RING AND COVER PLATE (PORCH LIGHT SUPPLIED & INSTALLED ON SITE BY OTHERS. BLANK COVER PLATE AT FACTORY). | N/A | 1 | FUTURE EXT. LIGHT |

NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)



PHOENIX MODULAR
5301 W. MADISON ST. - PHOENIX, AZ 85043
PH 602-447-6460 FAX 602-447-6476

SUNBELT MODULAR, INC.
AMTEK | INDIAN | PHOENIX | MR. STEEL | AMERIFAB

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DEALER:
DSMBI

PROJECT:
NAVIGATION CENTER

SERIAL NUMBER:
PMI-3826-1240

STATES:
CALIFORNIA

DRAWN BY:
KN/BS

PLOT DATE:
3/28/2018

REV # / DATE:
#1 2/23/2018 PR#3-4
#2 2/27/2018 PR#5-6
#3 3/15/2018 PR#7
#4 3/26/2018 State Corr.

FINAL RELEASE
MAR 28 2018

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR. BLDG. C #C206
PHOENIX, AZ 85029
(602) 327-4769

SHEET:
2
OF
5

| DOORS: | | | | | | | | | | | | | | | |
|--------|-----|------------------------------------|-------------------------|----------------|---------|------|---------------|----------|--|-----------|-----------------|-----------------------------|-------------|--------|--|
| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. MAJESTIC BLUE | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | DOUBLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP (INCLUDE SIGN: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED) |
| 1 | 2 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. MAJESTIC BLUE | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE) EXTERIOR: (MAJESTIC BLUE) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

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DEALER:
 DSMBI

PROJECT:
 NAVIGATION CENTER

SERIAL NUMBER:
 PMI-3826-1240

STATES:
 CALIFORNIA

DRAWN BY:
 KNBS

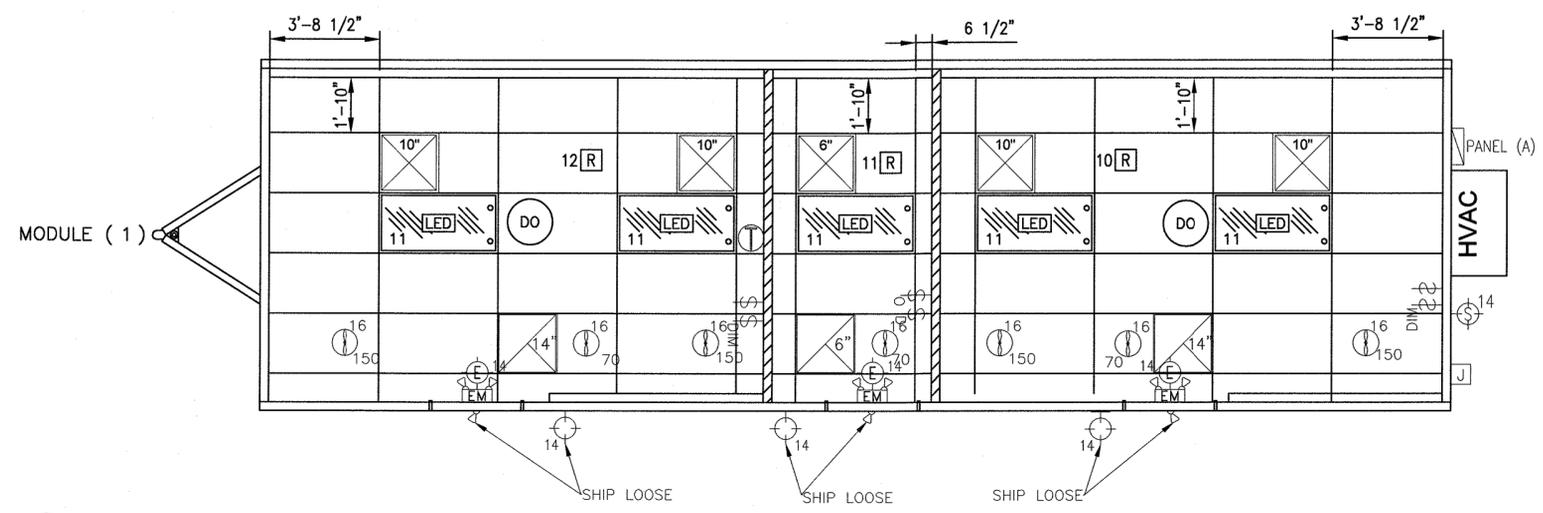
PLOT DATE:
 3/28/2018

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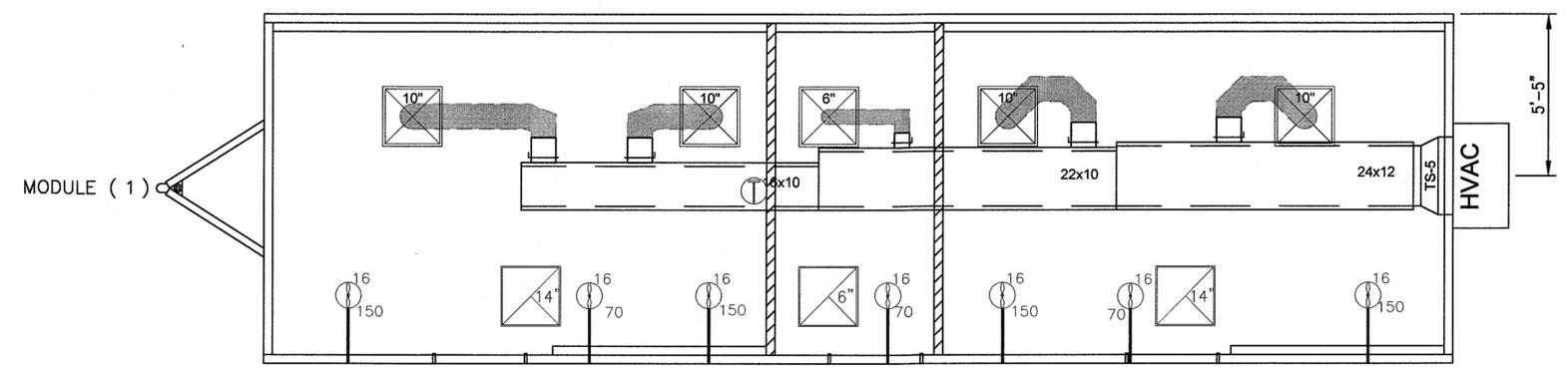
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SHEET:
3
 OF
5



1 REFLECTED CEILING PLAN
 1/4"=1'-0"



2 HVAC PLAN
 1/4"=1'-0"

| SYM | DESCRIPTION | QTY |
|------|--|-----|
| HVAC | 4 TON HP W/ 10 kw HEAT STRIP (F.A.D.) WITH 100% FRESH AIR KIT (MERV-8) MODEL # (W48H2-A1) OR EQUAL | 1 |
| ⊠ | 3'x11" TO 24"x12" GALV. SLEEVE 16" LONG | 1 |
| ▭ | 24"x12"x10'-0" FIBERGLASS DUCT. | 1 |
| ▭ | 22"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| ▭ | 16"x10"x10'-0" FIBERGLASS DUCT. | 1 |
| ⊠ | 24"x24" 4-WAY THROW DIFFUSER. 6" COLLAR W/ SCOOP & DAMPER 6" FLEX. 6" START COLLAR. | 1 |
| ⊠ | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 4 |
| ⊠ | 24"x24" RELIEF DAMPER. 14" FLEX TO 14" ROOF VENT (FAMCO #JV14) | 2 |
| ⊠ | 24"x24" RELIEF DAMPER. 6" FLEX TO 6" ROOF VENT (FAMCO #JV6) | 1 |

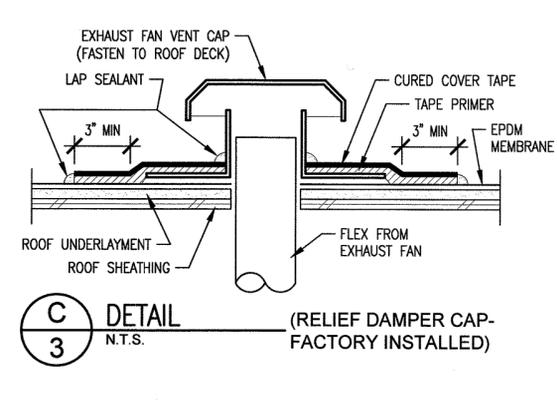
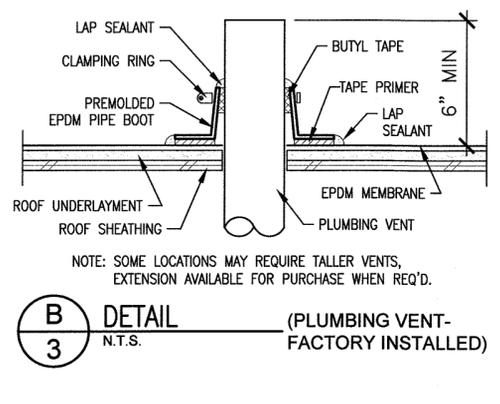
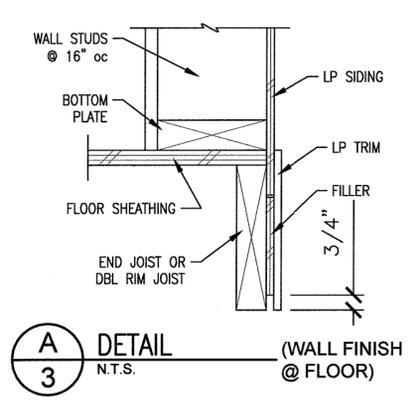
NOTE: INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS.

| 225 AMP 120/240 1 PHASE | | | | | | | | | |
|---|-------------------------------|---------|-----|-------|-------|-------|---------|--------------------------------------|----|
| PANEL WITH 225 AMP MAIN BREAKER (NEMA 3R) | | | | | | | | | |
| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
| 8 | 10kw HEAT STRIP | 1 | 50 | 4200 | | 60 | | HVAC UNIT 4-TON | 6 |
| | | | | 6240 | | | 2 | | |
| 8 | | 3 | 2 | 4200 | | 2 | 4 | | 6 |
| | | | | 6240 | | | 4 | | |
| 8 | DUAL INSTA-HOT | 5 | 35 | 4000 | | 35 | 6 | DUAL INSTA-HOT | 8 |
| | | | | 4000 | | | 6 | | |
| 8 | | 7 | 2 | 4000 | | 2 | 8 | | 8 |
| | | | | 4000 | | | 8 | | |
| 10 | SINGLE INSTA-HOT | 9 | 30 | 3500 | | 20 | 10 | HW J-BOX (RAFTERS) | 12 |
| | | | | 1800 | | | 10 | | |
| 12 | HW J-BOX (RAFTERS) | 11 | 20 | | | 20 | 12 | HW J-BOX (RAFTERS) | 12 |
| | | | | 1800 | | | 12 | | |
| | | | | 1800 | | | 12 | | |
| | SPACE | 13 | | | | | | (5) LEDs, (4) PORCH, (3) EM/EX LITES | 12 |
| | | | | 340 | | | 14 | | |
| 12 | (7) GFCI RECEPTS, (1) WP GFCI | 15 | 20 | 1440 | | 20 | 16 | (7) EXHAUST FANS | 12 |
| | | | | 1050 | | | 16 | | |
| | | | | 24080 | 24530 | Total | | | |

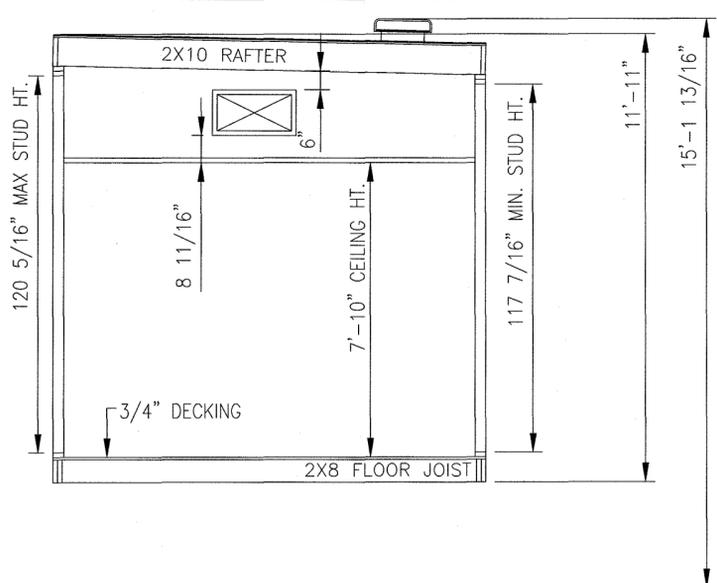
ELECTRICAL CALCULATION:
 GENERAL LIGHTING:
 419 LIGHTS x 125% = 1833 watts
 8 RECEPTACLES = 1440 watts
 1 HVAC UNITS = 20880 watts
 3 WATER HEATER = 19500 watts
 3 HW J-BOXES = 5400 watts

PANEL A
 TYPE OF PANEL: LOAD CENTER

49053 watts divide by 240volts = 204.4 AMPS TOTAL

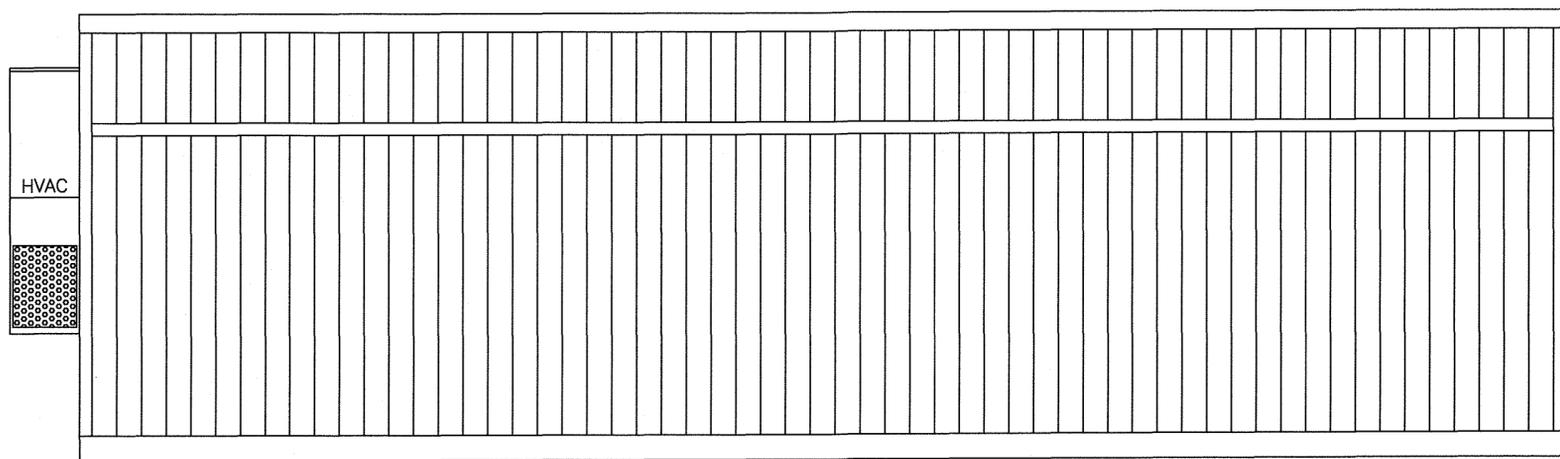


15'-1 13/16" SHIPPING HEIGHT W/ RELIEF DAMPERS

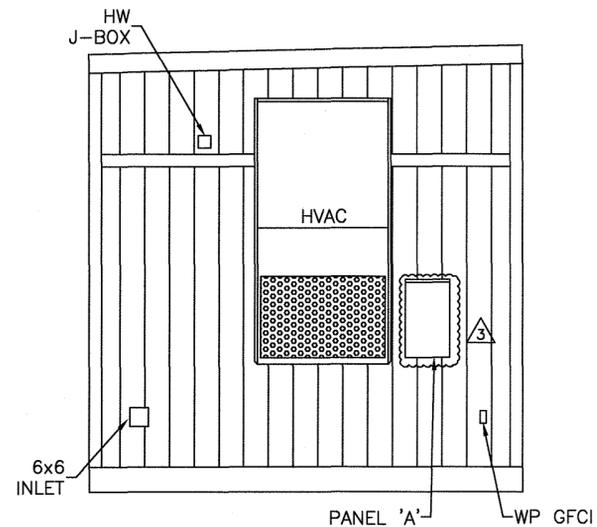
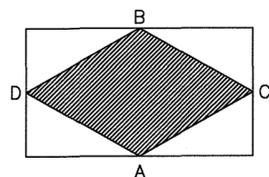


1 BUILDING CROSS SECTION

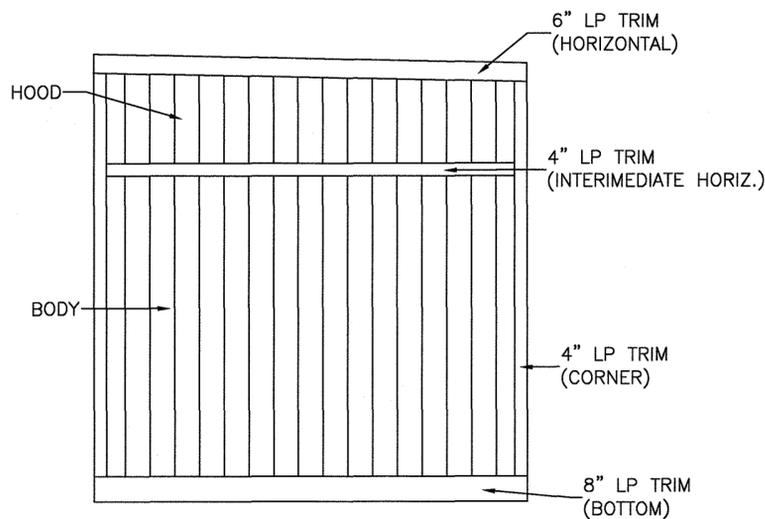
5/16"=1'-0"



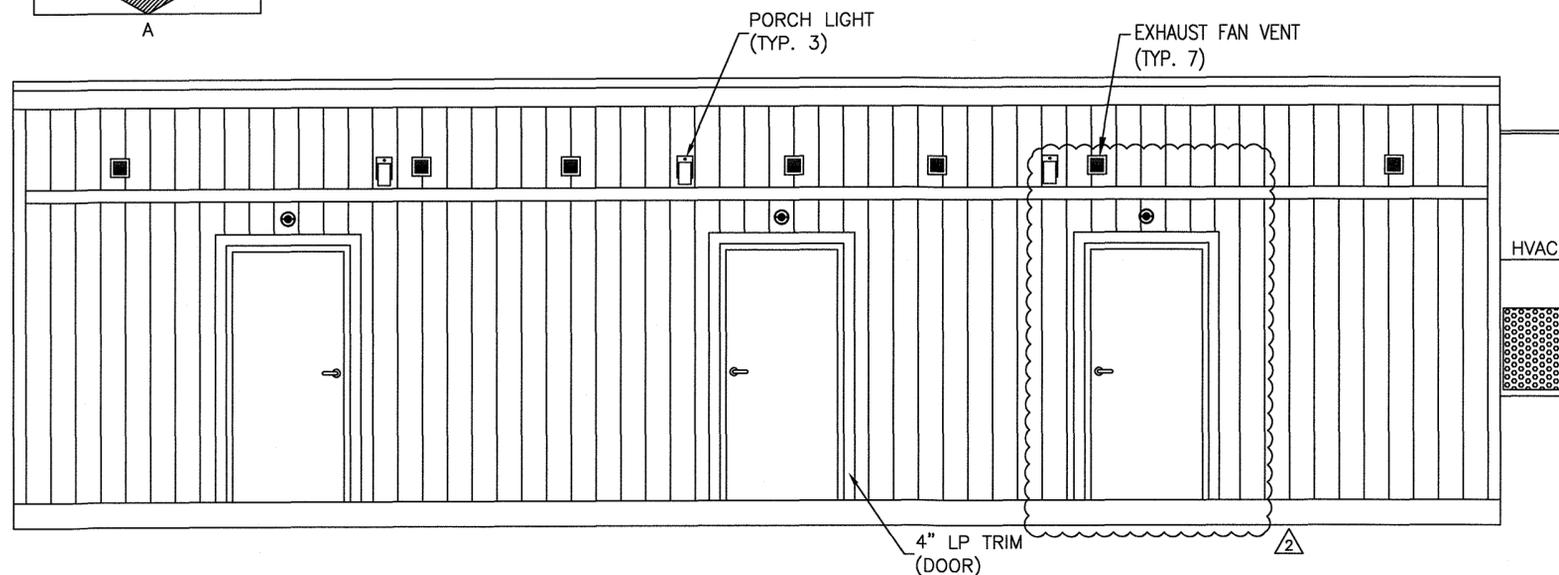
ELEVATION 'B'



ELEVATION 'C'



ELEVATION 'D'



ELEVATION 'A'

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH: 602-447-6460 FAX: 602-447-6476

SUNBELT MODULAR, INC.
 AMTEX | INDICON | PHOENIX | M.R. STEEL | AMERL-FAB

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DEALER:
 DSMBI

PROJECT:
 NAVIGATION CENTER

SERIAL NUMBER:
 PMI-3826-1240

STATES:
 CALIFORNIA

DRAWN BY:
 KN/BS

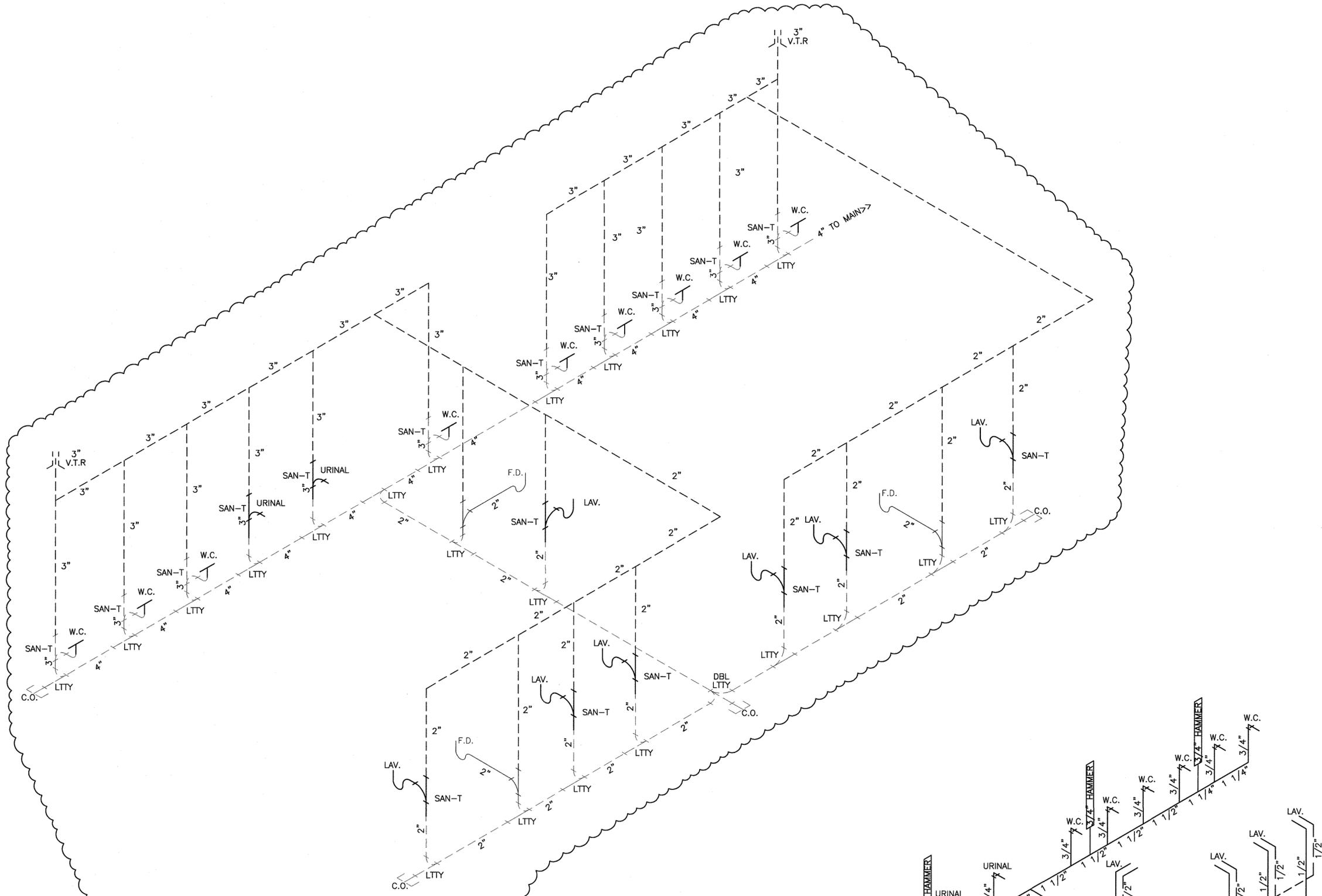
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FINAL RELEASE
 MAR 28 2018

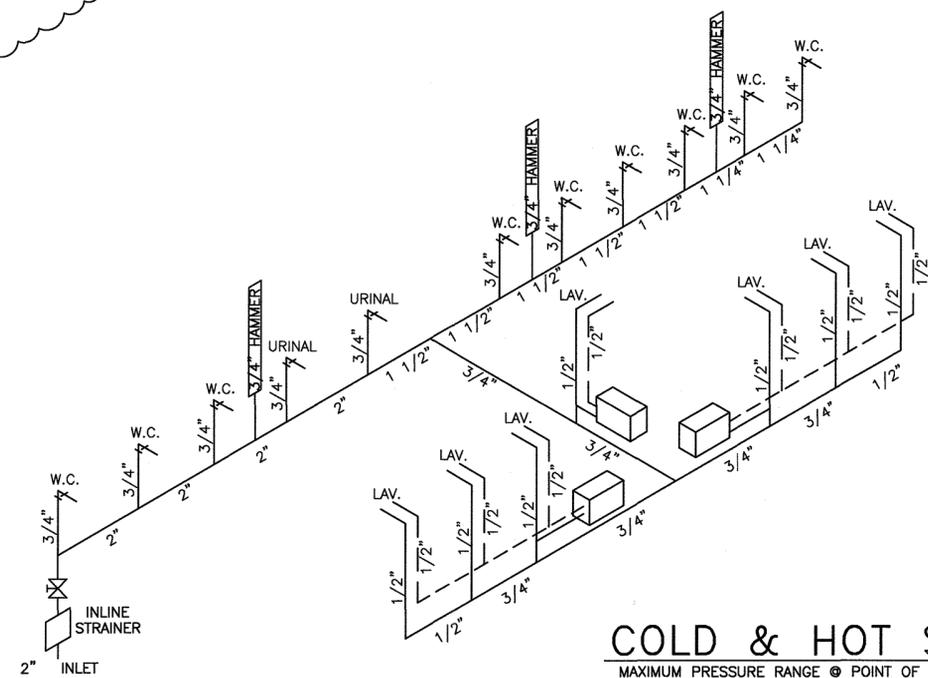
R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR. BLDG. C #C206
 PHOENIX, AZ. 85029
 (602) 327-4769

SHEET:
4
 OF
5



WASTE & VENT SCHEMATIC

ALL PIPE TO BE ABS SCHEDULE 40
AND WILL SLOPE 1/4" PER FOOT
NOTE: PLUMBING MANIFOLD TO BE SUPPLIED
AND INSTALLED ON SITE BY OTHERS.



COLD & HOT SCHEMATIC

MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 46 TO 60 PSI
GREATEST DEVELOPED LENGTH 40'
SUPPLY: COPPER (TYPE M)

PHOENIX MODULAR
5301 W. MADISON ST. - PHOENIX, AZ 85043
PH: 602-447-6460 FAX: 602-447-6476

SUNBELT MODULAR, INC.
AMTEX | INDIAN | PHOENIX | M.R. STEEL | AMERI-PAB

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DEALER:
DSMBI

PROJECT:
NAVIGATION CENTER

SERIAL NUMBER:
PMI-3826-1240

STATES:
CALIFORNIA

DRAWN BY:
KN/BS

PLOT DATE:
3/28/2018

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#1 2/23/2018 PR#3-4
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MAR 28 2018

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SUNBELT MODULAR, INC
11225 N. 28TH DR. BLDG. C #C206
PHOENIX, AZ 85029
(602) 327-4769

SHEET:
5
OF
5

DRAWING INDEX

- SHEET 1: SPECIFICATIONS AND CONDITIONS
- SHEET 2: FLOOR PLAN, ELECTRICAL PLAN, DOOR SCHEDULE, ELECTRICAL SCHEDULE, PLUMBING SCHEDULE, ELECTRICAL PANEL
- SHEET 3: REFLECTED CEILING PLAN, HVAC PLAN, HVAC SCHEDULE, CROSS SECTION
- SHEET 4: DETAILS
- SHEET 5: ELEVATIONS
- SHEET 6: PLUMBING ISO

DEALER:

DSMBI

PROJECT:

NAVIGATION CENTER DIVISION CIRCLE

14' X 40'

PMI-3827-1440



| | |
|--|---|
| FRAME / CHASSIS: | |
| Frame Type: Basement | Quantity: (1) EA |
| Size: 12'-6" x 40'-0" | Type: Outrigger @ 96 in O.C. |
| | Crossmember @ 96 in. O.C. |
| | Main Rails @ 99 1/2 in. O.C. |
| Beam Size: 12 in. Jr. I-beam | Axles: Quad 6000# rated with (All) brake |
| Hitch: Detachable | Tires: 8x14.5 14 ply rated |
| Additional Frame / Chassis Items Included in Quoted Price: | |
| Item 1: M.R. Steel Metal frames. | |
| FLOOR CONSTRUCTION: | |
| Floor Joist: 2X8 #2 HF equal or better | Joist Length: 143-7/8 in. |
| Joist Spacing: 16 in. O.C. | Floor: Double layer 3/4 in. Sturd-I-Floor. |
| Insulation: R-19 unfaced fiberglass batt | Bottom: Reinforced Plastic |
| Additional Floor Items Included in Quoted Price: | |
| Item 1: 2nd layer of 3/4" Deck left out at Showers (See Detail Wallset Sheet) | |
| EXTERIOR WALL CONSTRUCTION: | |
| Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C. | Top Plate: Double 2X4 #2 HF equal or better |
| | Bottom Plate: Single 2X4 #2 HF or better |
| | Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO) |
| Insulation: R-13 Kraft back fiberglass batt | Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment. |
| | (Leave Siding Loose @ ADA shower stalls for plumbing installation) |
| Sidewall Height: See cross section for heights | |
| Additional Exterior Wall Items Included in Quoted Price: | |
| N/A | |
| INTERIOR WALL CONSTRUCTION: | |
| Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c. | Top plate: Single 2X4 #2 HF equal or better (Double as needed) |
| | Bottom plate: Single 2X4 #2 HF or better bottom plate |
| | Stud length: 92-5/8 in. (Ceiling Ht.), FULL HT. (Dividing Walls Only) |
| Insulation: R-11 unfaced battens (Dividing Walls Only) FULL HT. (See Hatching) | |
| Additional Interior Wall Items Included in Quoted Price: | |
| N/A | |
| ROOF CONSTRUCTION: | |
| Roof Type: Complex | Roof Slope: 1/4 to 12 |
| Rafter size: 2X10 #2 HF equal or better | Rafter Length: 147 in. |
| Spacing: 16 in. O.C. | Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting |
| Sheathing: 1/2 in. 24/0 Sheathing (FULLY BLOCKED) | Roofing: 45 mil single ply EPDM over 1/4" Densdeck |
| | Color: White |
| Additional Roof Items Included in Quoted Price: | |
| Item 1: 1/2" GYP @ Rafters (Janitor's) (T, T & P) Medium Knockdown | |

| | |
|--|--|
| FINISHES: | |
| FLOOR COVERING | |
| Type 1: | 0.080 Self Cove Linoleum covered up wall (6 in. min) Location: (Thru-Out) Color to be: (White Cliff) |
| BASE | |
| Cove Base 1: | 6 in. Self Cove. (See Floor Covering) Location: (Thru-Out) |
| WALLS | |
| Covering 1: | FRP over 1/2 in. MR GYP to 8' 1/2 in. GYP (T, T & P) Medium Knockdown remainder way to Rafters Location: (Janitors) Covering height: 8 ft Color: FRP (White), GYP (White on White) |
| Covering 2: | FRP over 1/2 in. MR GYP to Ceiling Height, Raw 1/2 in. MR GYP remainder way to Rafters. Location: (Full Height Walls Only) Covering height: 8 ft. Color: (White) |
| Covering 3: | FRP over 1/2 in. MR GYP to Ceiling Height, Location: (Remainder) Covering height: 8 ft. Color: (White) |
| TRIM | |
| Wall Trim 1: | FRP trim Color to be: (White) |
| Wall Trim 2: | Square Cornerbead |
| CEILING | |
| Type 1: | 1/2 in. Sheetrock (Taped, Textured, & Painted) Height: Bottom of Rafters Location: (Janitor) Color: (White) |
| Type 2: | 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires Armstrong Kitchen Zone #672 (VINYL WASHABLE) or Equal Height: 7'-10" Location: (Remainder) |
| EXTERIOR | |
| Siding body: | Color: (COOL BLUE 2058-40) 8 ft. sheets |
| Hood: | Color: (COOL BLUE 2058-40) |
| Corner trim: | Color: (COOL BLUE 2058-40) |
| Door & window trim: | Color: (COOL BLUE 2058-40) |
| Bottom horizontal trim: | Color: (COOL BLUE 2058-40) |
| Intermediate horizontal trim: | Color: (COOL BLUE 2058-40) separates hood & body |
| Top horizontal trim: | Color: (COOL BLUE 2058-40) |
| Module line trim: | Color: (Match hood above intermediate horizontal trim & match body below) |
| All paint to be: | Satin Finish, Glidden to match Benjamin Moore |
| EXTERIOR DOORS: (SEE DOOR SCHEDULE) | |
| WINDOWS: None Provided | |
| CLOSEUP: | |
| Type: | Single Unit |
| Notes: | Module NOT TO exceed 14'-0" |
| APPLIANCES: | |
| None provided | |
| ACCESSORIES: | |
| Cabinets: | None provided |
| Counters: | None provided |
| Shelving: | None provided |

| | |
|---|--|
| MANUFACTURER: | |
| MANUFACTURER & ADDRESS | PHOENIX MODULAR 5301 W. MADISON ST. PHOENIX, AZ. 85043 PHOENIXMODULAR.COM |
| (SEE WEBSITE FOR WARRANTY INFORMATION) | |
| DESIGN CRITERIA / LOADS: | |
| NO OF MODULES: | 1 |
| BUILDING SQ. FT. | 500 |
| TYPE OF CONSTRUCTION: | VB |
| OCCUPANCY USE GROUP: | B |
| OCCUPANCY LOAD: | 12 |
| FLOOR LIVE LOAD: | 50 psf. (2000 lb concentrated) (100 psf. @ corridor) |
| ROOF LIVE LOAD: | 20 psf. |
| ROOF SNOW LOAD: | 15 psf. |
| WIND LOAD: | 2016 CBC - 115 MPH, EXP. C |
| OCCUPANCY/RISK CATG. | II |
| SEISMIC | Ss=3.730, S1=1.389 Site Class 'D' Design Category 'E' |
| PERMISSIBLE GAS TYPE: | N/A |
| CLIMATE ZONE: | 3 (PRESCRIPTIVE) |
| NAME AND DATE OF CODES: CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC, 2016 CA Energy, & CBC Chapter 11B Accessibility | |

SPECIAL CONDITIONS AND OR LIMITATIONS:

| | |
|----------------------|------------------------|
| SPRINKLERS REQUIRED: | YES |
| INSTALLED AT: | FACTORY |
| CONTRACTED BY: | DEALER |
| INSTALLED BY: | SUMMIT FIRE PROTECTION |

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. ADDITIONAL HANDICAP TOILET FACILITIES PROVIDED IN ADJACENT BUILDING ON THE SAME PROPERTY LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
5. N/A
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORRED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS: 224-246 S. VAN NESS AVE. AND/OR LOCATION OF UNIT: SAN FRANCISCO, CA 94107
2. EXPLANATION OF BUILDING USE: SHOWERS
3. SET TYPE: PAD/PIER ABOVE GRADE

5301 W. MADISON ST. - PHOENIX, AZ 85043
PH 602-447-6460 FAX 602-447-6476

SUNBELT MODULAR, INC.
AMTEX | INDIAN | PHOENIX | M.R. STEEL | AMERIFAB

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DSMBI

PROJECT:
NAVIGATION CENTER DIVISION CIRCLE

STATES:
CALIFORNIA

SERIAL NUMBERS:
PMI-3827-1440

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KN/BS

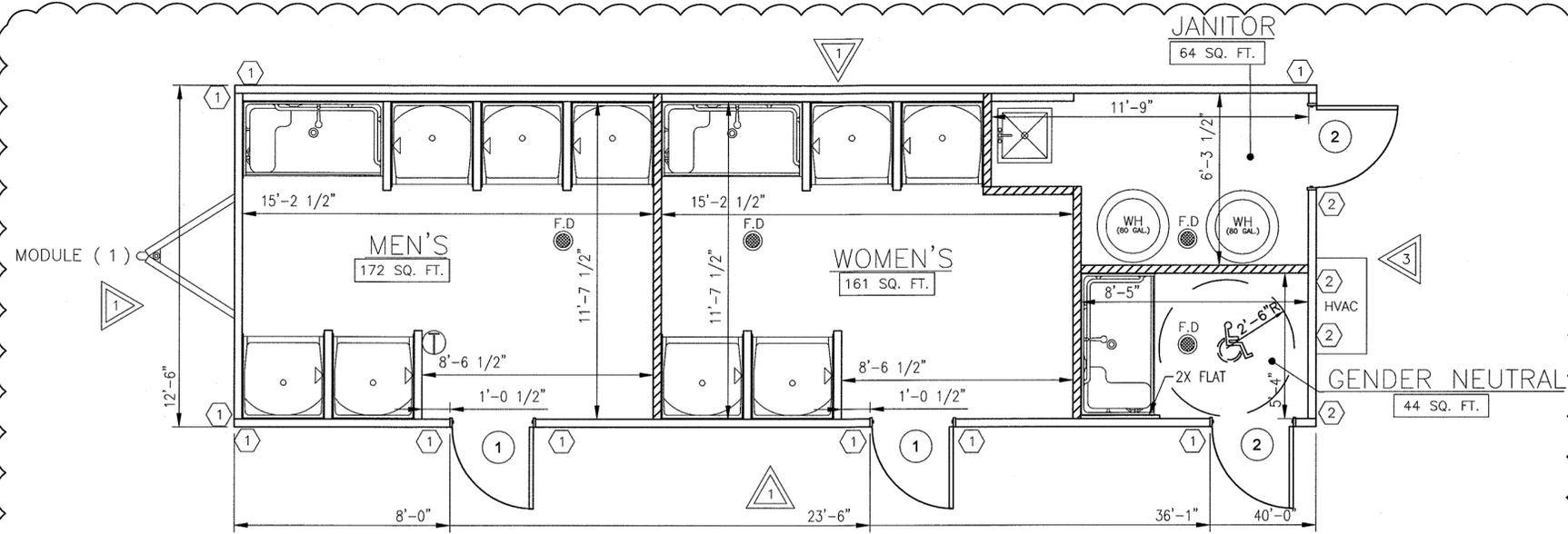
PLOT DATE:
3/13/2018

REV # / DATE:
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#2 2/19/2018 PR#5

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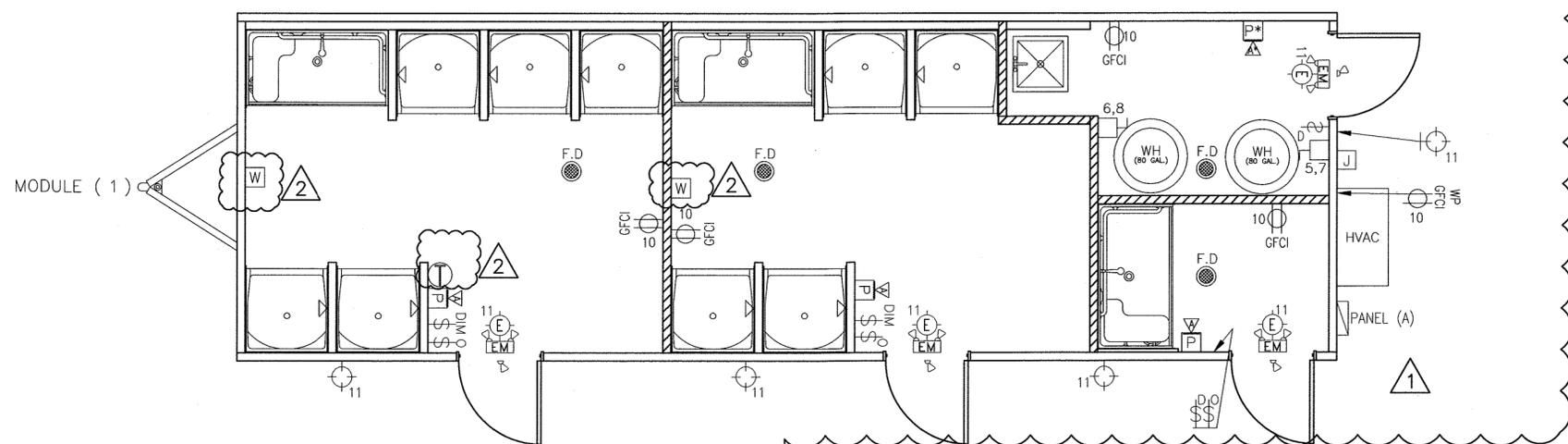
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CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR. BLDG. C #C206
PHOENIX, AZ. 85029
(602) 327-4769

SHEET:
1
OF
6



1 FLOOR PLAN
1/4"=1'-0" SQUARE FOOTAGE - 500 S.F.
OCCUPANCY LOAD = 12

HATCHING DENOTES:
[Hatched Box] INSULATED FULL HEIGHT WALL



2 ELECTRICAL PLAN
1/4"=1'-0"

| 200 AMP 120/240 1 PHASE PANEL WITH 200 AMP MAIN BREAKER (NEMA 3R) | | | | | | |
|--|--|---------|-----|-------|-------|-------|
| WS | Description | Circuit | BRK | A | B | BRK |
| 10 | HVAC UNIT 4-TON | 1 | 60 | 6240 | 60 | 2 |
| 6 | | 3 | 2 | 6240 | 2 | 4 |
| | | | | 4200 | | |
| 10 | WATER HEATER | 5 | 30 | 2813 | 30 | 6 |
| 10 | | 7 | 2 | 2813 | 2 | 8 |
| | | | | 2813 | | |
| | Space | 9 | | 900 | 20 | 10 |
| 12 | (6) LEDS, (4) PORCH LITES, (4) EM/EX LITES, (5) FANS | 11 | 20 | 1155 | | 12 |
| 12 | HW J-BOX | 13 | 20 | 1800 | 20 | 14 |
| | | 15 | | 1800 | 20 | 16 |
| | | | | 20586 | 19021 | Total |

ELECTRICAL CALCULATION:
GENERAL LIGHTING:
422 LIGHTS x 125% = 1846 watts
5 RECEPTACLES = 900 watts
1 HVAC UNITS = 20880 watts
2 WATER HEATER = 11252 watts
3 HW J-BOX = 5400 watts

PANEL A
TYPE OF PANEL: LOAD CENTER
40278 watts divide by 240volts = 167.8 AMPS TOTAL

STRUCTURAL LEGEND

| | |
|-----------------|--|
| [X in Triangle] | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| [X in Hexagon] | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

PLUMBING SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|----------|--|-----|
| [Symbol] | RECESSED HANDICAP SHOWER, (1) CURTAIN ROD, (1) HOOK (1) CURTAIN & (1) WATER DAM (SEE PLAN) ROUGH OPENING: 62" w x 33.1/2" d. (FLORESTONE 35-62H) LOW FLOW | 3 |
| [Symbol] | 36" x 36" STANDARD SHOWER W/ FAUCETS, CURTAIN ROD, AND CURTAIN. LOW FLOW | 9 |
| [Symbol] | 80 GAL. HYBRID ELECTRIC HEAT PUMP WATER HEATER (240V) EACH WATER HEATER TO INCLUDE: - WATERTIGHT PAN WITH A 3/4" DRAIN. - INSULATION (R3.7 MIN) FIRST 8' OF HOT/COLD LINES - SEISMIC STRAPS - PROVISION FOR CONDENSATE DRAINING (FROM HEAT PUMP) - VENTING PROVISIONS: AIR DUCT INLET: AO SMITH 9910005000 (VENTED THRU HOOD) AIR DUCT OUTLET: AO SMITH 9910006000 (VENTED THRU ROOF) WATER HEATER BRAND: AO SMITH FPTU VORTEX NOTE: ALL VENTING DUCTS TO BE #8" AND INSULATED (R-6). SEE DETAILS D/4, E/4 & F/4 FOR WATER HEATER VENTING. | 2 |
| [Symbol] | FLOOR MOUNT MOP SINK W/ WALL MOUNTED FAUCET (NO BRAND SPECIFIED) | 1 |
| [Symbol] | 2" FLOOR DRAIN W/ TRAP GUARD (NO BRAND SPECIFIED) | 4 |

NOTE: 1. INCLUDE IN-LINE STRAINER
2. INCLUDE (6) CALIFORNIA ADA RESTROOM SIGNS. (1) ON DOOR, (1) ON WALL.

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|----------|---|-------|-----|-------------------------------|
| [Symbol] | 200 AMP 1 PHASE 120/240 W/200 AMP MAIN. 60" A.F.F. TO TOP OF PANEL (EX. SURFACE MNT.) | N/A | 1 | |
| [Symbol] | 30 AMP EXT. MNT'D DISCONNECT MOUNTED @ 60" A.F.F. (U.N.O.) | N/A | 2 | FOR WATER HEATER DISCONNECT. |
| [Symbol] | GFCI GROUND FAULT CIRCUIT INTERRUPT RCPT: W/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 4 | |
| [Symbol] | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE @ 16" A.F.F. U.N.O. (NO BRAND SPECIFIED) | N/A | 1 | |
| [Symbol] | WALL MNT'D DIMMING SWITCH w/ COVER PLATE @ 46" A.F.F. LUTRON DVV (OR EQUAL) | IVORY | 2 | LIGHTS |
| [Symbol] | WALL MNT'D OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. WAITSTOPER ISO-DIV (OR EQUAL) | IVORY | 3 | FAN |
| [Symbol] | WALL MNT'D DIMMING/OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. LUTRON MS-7101 (OR EQUAL) | IVORY | 2 | LIGHTS |
| [Symbol] | CEILING MNT'D OCCUPANCY SENSOR (CI-205) w/ POWER PACK (BZ-50) OR EQUAL | WHITE | 2 | |
| [Symbol] | 2x4 HW J-BOX @ RAFTERS W/COVER PLATE U.N.O. | N/A | 3 | FOR FUTURE USE |
| [Symbol] | 6x6x6 NEMA 3R J-BOX SEMI-RECESSED MNT'D @ 16" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY | METAL | 1 | FOR FUTURE INLET |
| [Symbol] | 70 CFM CEILING EXHAUST FAN ONLY BRAND: BRIAN BT (OR EQUAL) | N/A | 1 | THRU WALL |
| [Symbol] | 150 CFM CEILING EXHAUST FAN ONLY BRAND: BRIAN BY1500Q (OR EQUAL) | N/A | 4 | THRU WALL |
| [Symbol] | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP. WHITE ROGERS F951277 | N/A | 1 | (PROGRAMMABLE) |
| [Symbol] | 1x4 -LED TUBE FLUORESCENT FIXTURE SURFACE MNT'D. DIFFUSED. (NUVO 65-1082) | N/A | 1 | DIMMABLE |
| [Symbol] | 2x4 -LED 4200 LUMENS FIXTURE, RECESSED, DIFFUSED (NO BRAND SPECIFIED) | N/A | 5 | DIMMABLE |
| [Symbol] | PORCH LIGHTS @ 02" A.F.F. U.N.O. BRAND: WESTGATE LSW 22CW-PC | N/A | 4 | w/ PHOTOCELL ON LIGHT |
| [Symbol] | WALL MNT EMERGENCY LIGHT /w RED EXIT LIGHT MNT. @ 88" A.F.F. w/ BKT. BACKUP & REMOTE HEAD MNT. @ 89" A.F.F. | N/A | 4 | OCTAGONAL BOX FOR REMOTE HEAD |
| [Symbol] | 4x4 J-BOX @ 88" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/COVER PLATE U.N.O. | IVORY | 3 | FOR FUTURE AUDIO/VISUAL |
| [Symbol] | 2x4 HW J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ COVER PLATE (U.N.O.) | IVORY | 1 | FOR FUTURE AUDIO/VISUAL |
| [Symbol] | 2x4 HW J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ COVER PLATE (U.N.O.) | IVORY | 3 | FOR FUTURE PULL STATION |
| [Symbol] | 2x4 HW J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED @ 102" A.F.F. (SURFACE MOUNTED) w/ COVER PLATE (U.N.O.) | IVORY | 1 | FOR FUTURE PULL STATION |
| [Symbol] | 4x4 J-BOX @ 42" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ SOL. MTD. RING AND COVER PLATE | IVORY | 2 | FOR FUTURE USE |

NOTE: 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)

DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|------------------------------------|-----------------------------|----------------|---------|------|---------------|----------|---|-----------|-----------------|-----------------------------|-------------|--------|--|
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. COOL BLUE 2058-40 | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE-MATCH FRP) EXTERIOR: (COOL BLUE 2058-40) | HYDRAULIC | DOUBLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP (INCLUDE SIGN: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED) |
| 2 | 2 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA. COOL BLUE 2058-40 | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE-MATCH FRP) EXTERIOR: (COOL BLUE 2058-40) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

PHOENIX MODULAR
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SUNBELT MODULAR, INC.
AMTEX 1 INDIAN 1 PHOENIX 1 M.R. STEEL 1 AMERIFAB

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PROJECT:
NAVIGATION CENTER DIVISION CIRCLE

STATES:
CALIFORNIA

SERIAL NUMBERS:
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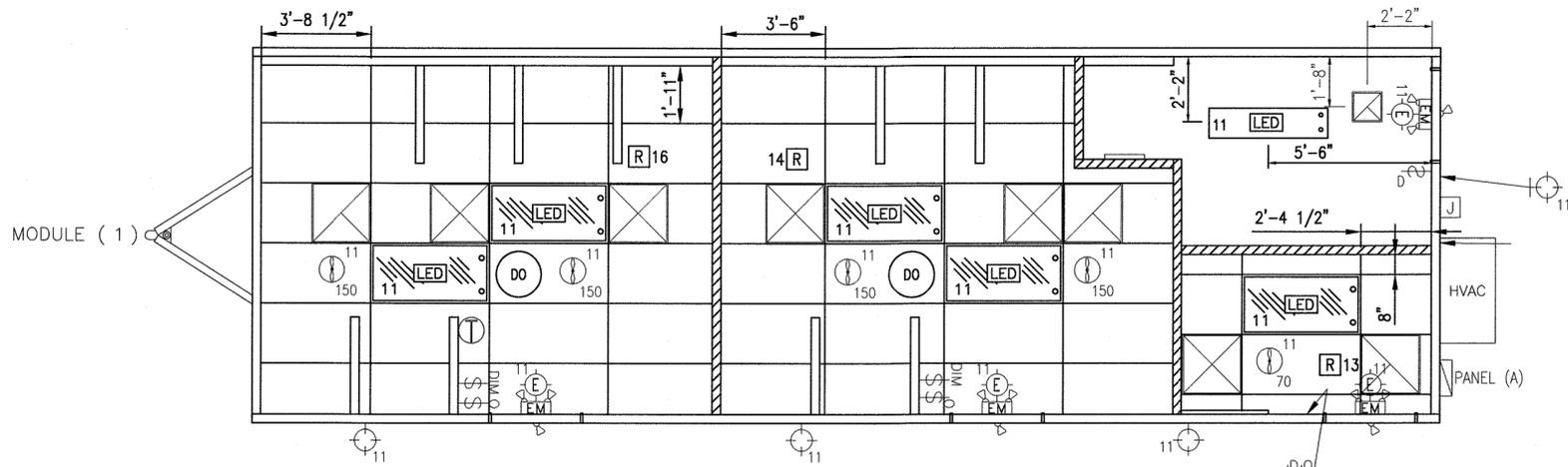
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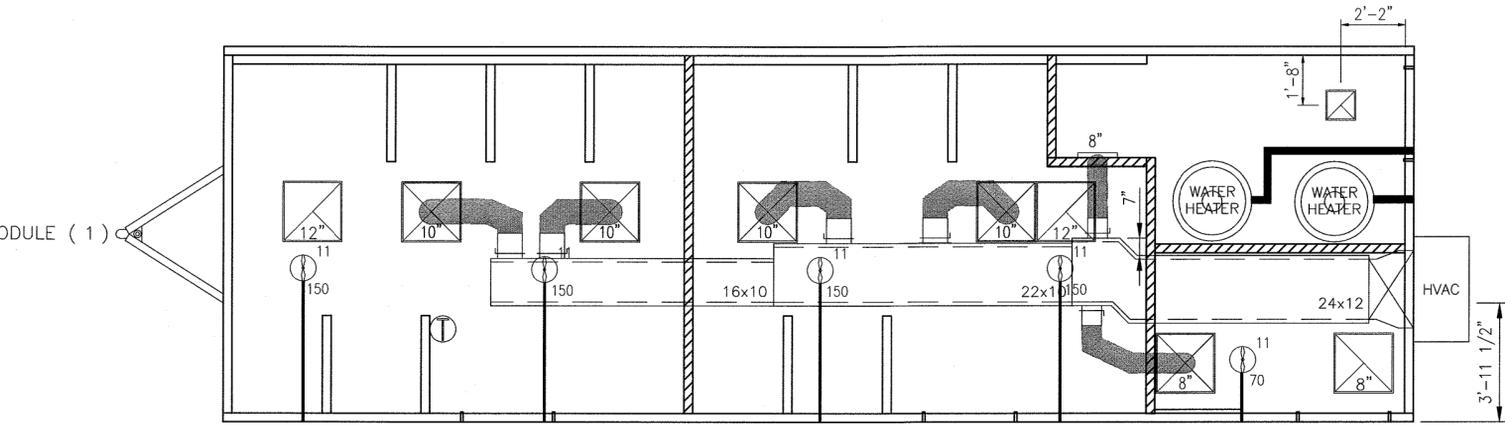
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SHEET:
2 OF 6



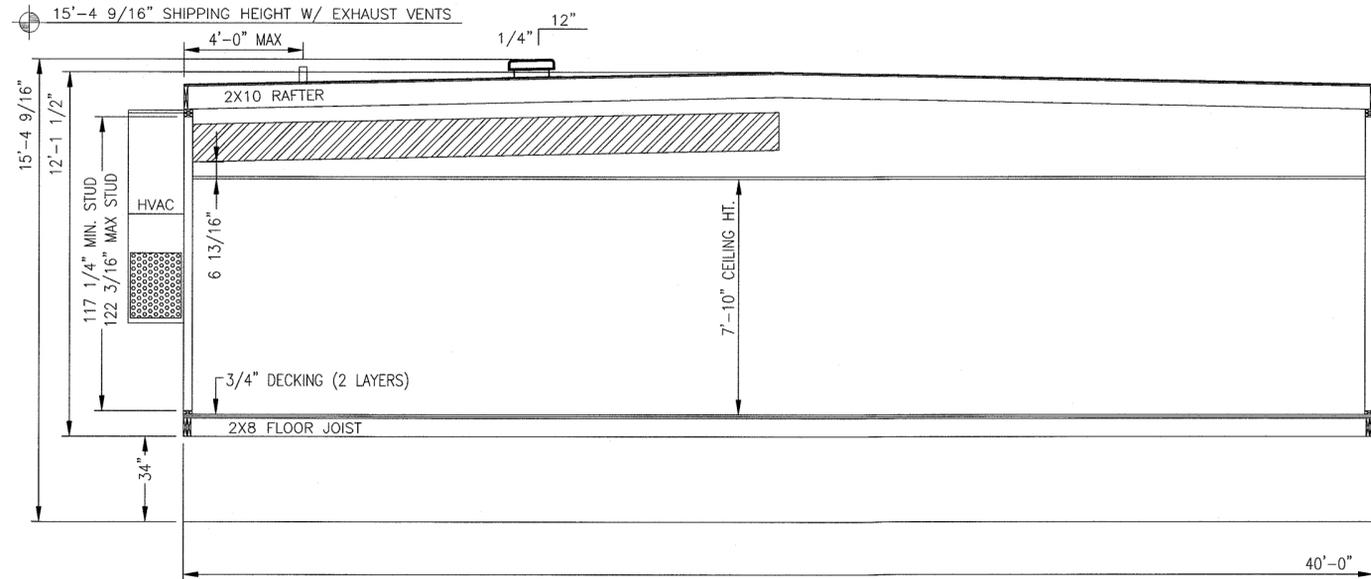
1 REFLECTED CEILING PLAN
1/4"=1'-0"



2 HVAC PLAN
1/4"=1'-0"

| HVAC SCHEDULE | | |
|---------------|--|-----|
| SYM | DESCRIPTION | QTY |
| HWAC | 4 TON 1/2 P W/ 10 kw HEAT STRIP (F.A.D.) W/ 100% FRESH AIR KIT. MODEL # (W48H2-A10) OR EQUAL | 1 |
| □ | 31"x11" TO 24"x12" GALV. SLEEVE 16" LONG | 1 |
| □ | 24"x12"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 22"x10"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 16"x10"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 24"x24" 4-WAY THROW DIFFUSER. 8" COLLAR W/ SCOOP & DAMPER 8" FLEX. 8" START COLLAR. | 1 |
| □ | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER. 10" FLEX. 10" START COLLAR. | 4 |
| □ | 24"x24" RELIEF DAMPER. 8" FLEX TO 8" ROOF VENT | 1 |
| □ | 24"x24" RELIEF DAMPER. 12" FLEX TO 12" ROOF VENT | 2 |
| □ | 12"x12" RELIEF DAMPER. 8" ROOF VENT SEE DETAIL G/4 | 1 |
| □ | 8"x6" 2-WAY SUPPLY WALL REGISTER MOUNTED AT 102" A.F.F. 8"x6" BOX WITH 8" COLLAR W/ SCOOP & DAMPER, 8" FLEX. | 1 |

NOTE: INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS.



3 BUILDING CROSS SECTION
1/4"=1'-0"

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PROJECT:
NAVIGATION CENTER
DIVISION CIRCLE

STATES:
CALIFORNIA

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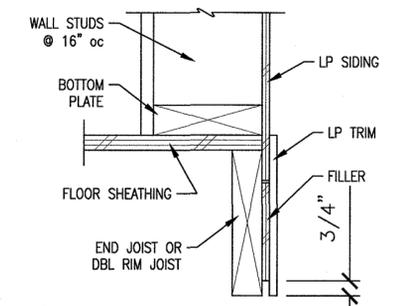
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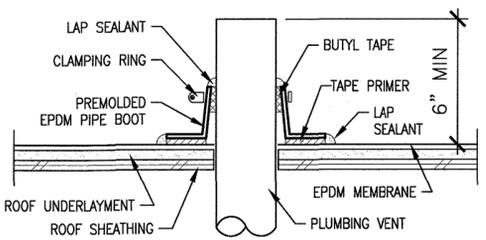
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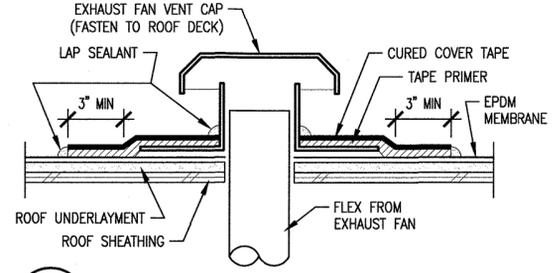
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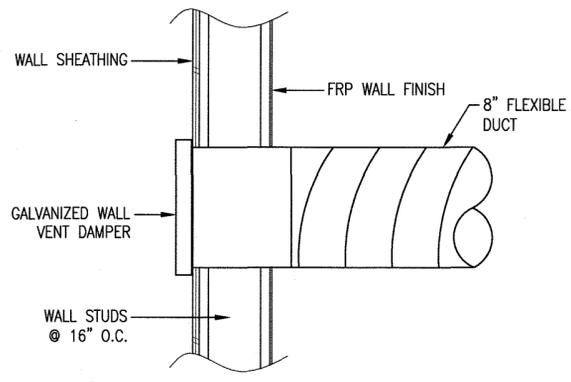
A
4
DETAIL
N.T.S. (WALL FINISH @ FLOOR)



B
4
DETAIL
N.T.S. (PLUMBING VENT-FACTORY INSTALLED)



C
4
DETAIL
N.T.S. (EXHAUST VENT CAP-FACTORY INSTALLED)



D
4
DETAIL
N.T.S. (HYBRID WATER HEATER VENTING THRU EXTERIOR WALL)

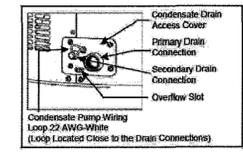
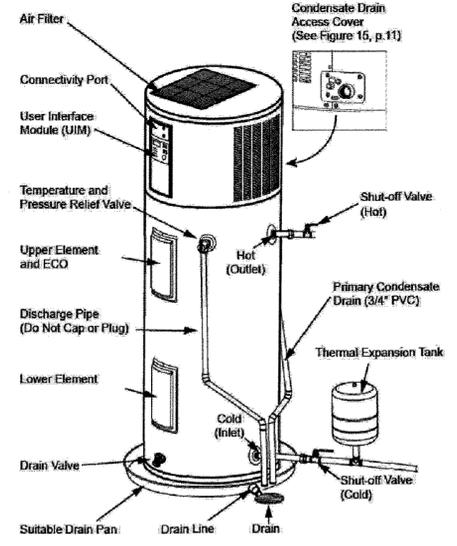
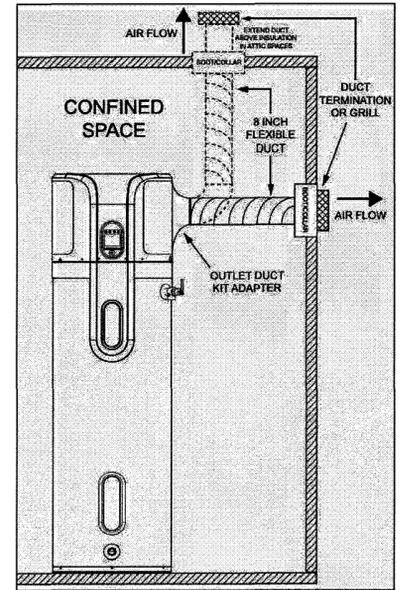


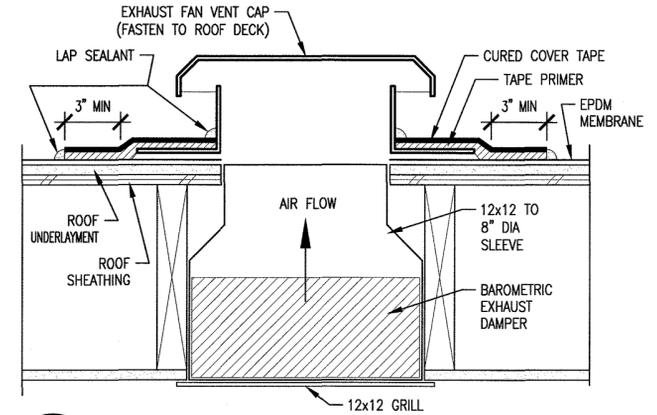
Figure 15 - Condensate Pump Wiring



E
4
DETAIL
N.T.S. (HYBRID WATER HEATER INSTALLATION SETUP)



F
4
DETAIL
N.T.S. (HYBRID WATER HEATER VENTING ASSEMBLY)



G
4
DETAIL
N.T.S. (BAROMETRIC RELIEF DAMPER-FACTORY INSTALLED CAP)

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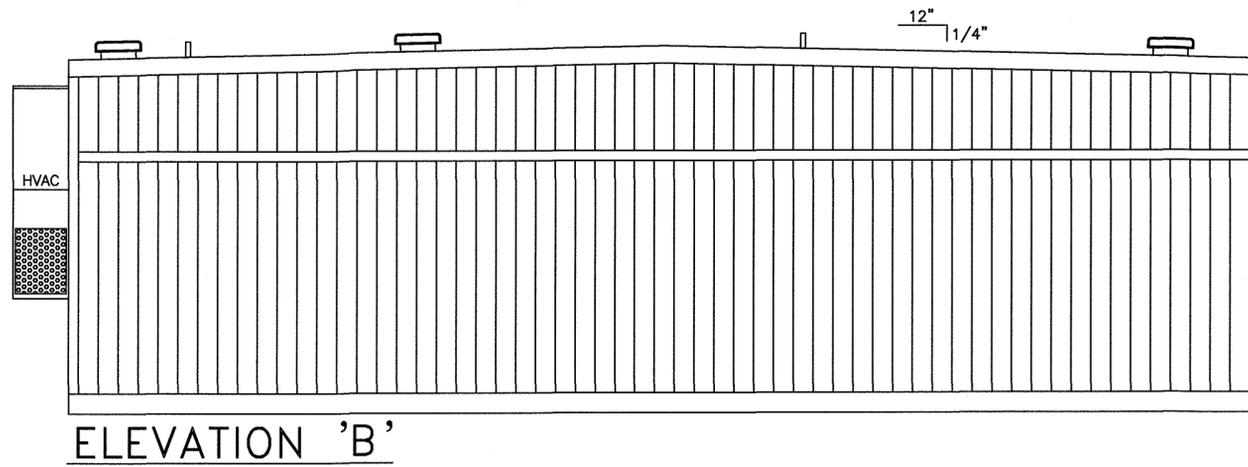
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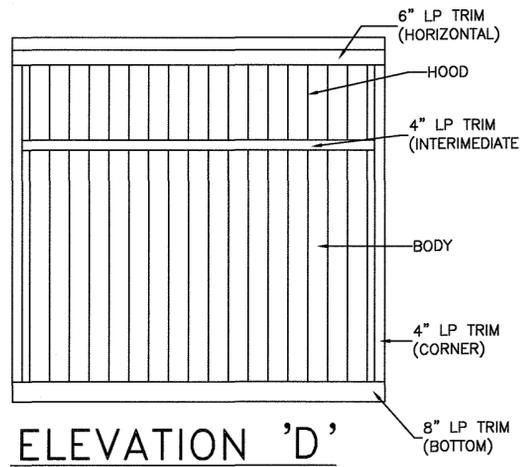
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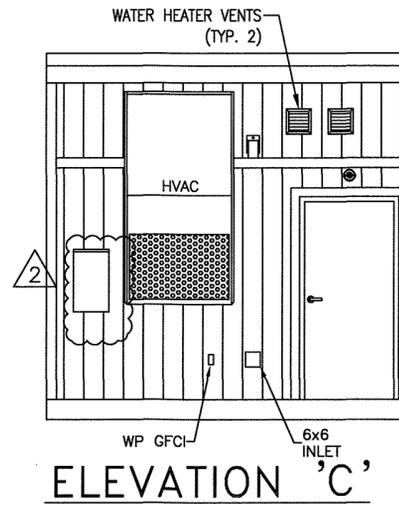
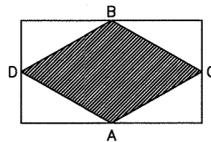
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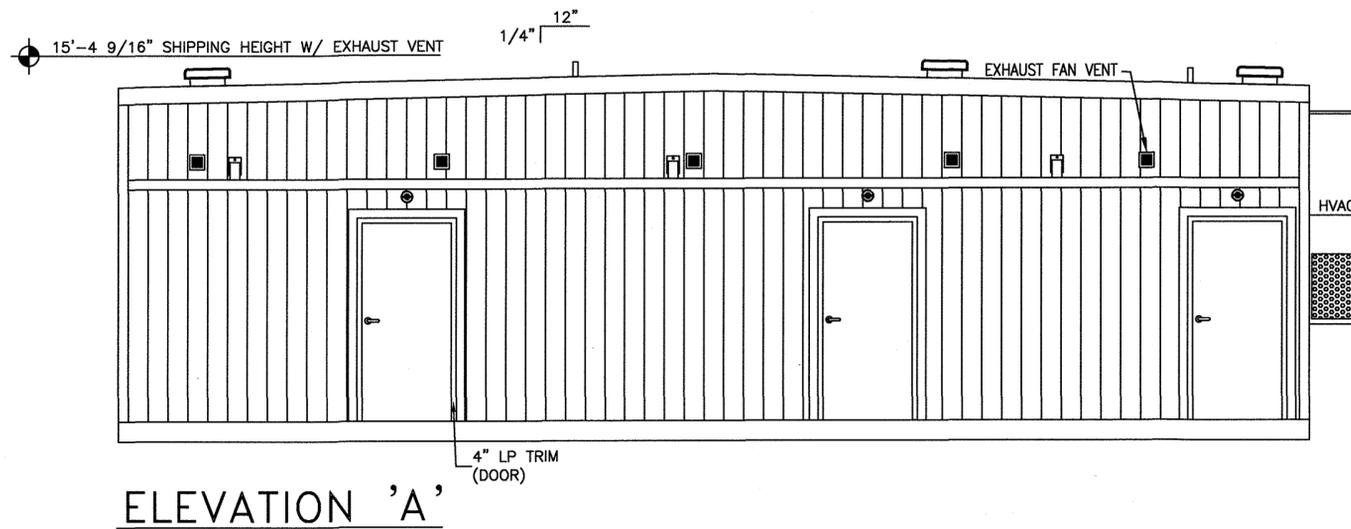
ELEVATION 'B'



ELEVATION 'D'



ELEVATION 'C'



ELEVATION 'A'

DRAWING INDEX

- SHEET 1: SPECIFICATIONS AND CONDITIONS
- SHEET 2: FLOOR PLAN, ELECTRICAL PLAN, PLUMBING SCHEDULE, ELECTRICAL SCHEDULE, DOOR SCHEDULE
- SHEET 3: REFLECTED CEILING PLAN, HVAC PLAN, HVAC SCHEDULE, MISC. DETAILS, ELECTRICAL PANEL
- SHEET 4: CROSS SECTION, SHEARWALL DETAIL
- SHEET 5: ELEVATIONS
- SHEET 6: PLUMBING ISO

DEALER:

DSMBI

PROJECT:

NAVIGATION CENTER DIVISION CIRCLE

12' X 56'

PMI-3828-1256

MANUFACTURER:

MANUFACTURER & ADDRESS PHOENIX MODULAR
5301 W. MADISON ST.
(SEE WEBSITE FOR PHOENIX, AZ. 85043
WARRANTY INFORMATION) PHOENIXMODULAR.COM

DESIGN CRITERIA / LOADS:

NO OF MODULES. 1
BUILDING SQ.FT. 654
TYPE OF CONSTRUCTION. VB
OCCUPANCY USE GROUP. B
OCCUPANCY LOAD. 19
FLOOR LIVE LOAD. 50 psf. (2000 lb concentrated)
(100 psf. @ corridor)
ROOF LIVE LOAD. 20 psf.
ROOF SNOW LOAD. 15 psf.
WIND LOAD. 2016 CBC - 115 MPH, EXP. C

OCCUPANCY/RISK CATG. II
SEISMIC Ss=3.730, S1=1.389
Site Class 'D'
Design Category 'E'
PERMISSIBLE GAS TYPE. N/A
CLIMATE ZONE. 3

NAME AND DATE OF CODES:
CA: 2016 CBC, 2016 CPC, 2016 CMC, 2016 CEC,
2016 CA Energy, & CBC Chapter 11B Accessibility

SPECIAL CONDITIONS AND OR LIMITATIONS:

SPRINKLERS REQUIRED. YES
INSTALLED AT. FACTORY
CONTRACTED BY. DEALER
INSTALLED BY. SUMMIT FIRE PROTECTION

NOT INCLUDED IN SCOPE OF WORK:

1. PORCHES, STEPS, AND RAMPS TO BE SUPPLIED AND INSTALLED BY OTHERS IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT
2. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED ON SITE BY OWNER IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT
3. ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED ON SITE BY OWNER LOCATED WITHIN 500 FEET ON AN ACCESSIBLE ROUTE
4. N/A
5. N/A
6. ANY REQUIRED FIRE/SMOKE DETECTION AND/OR SUPPRESSION TO BE INSTALLED BY DSMBI CONTRACTOR.
7. THE BUILDING OWNER IS RESPONSIBLE FOR THE DEVELOPMENT & DESIGN OF ALL SITE REQUIRED ACCESSIBILITY ELEMENTS. THESE ELEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS DESIGN. SUBMITTALS ARE REQUIRED BY OWNER THROUGH THEIR DESIGN PROFESSIONAL

IDENTIFICATION:

DATA PLATE AND STATE DECAL TO BE LOCATED ON LOWER RIGHT HAND CORNER OF THE ENDWALL OPPOSITE THE HITCH END OF THE MODULE.

NOTES:

1. SITE PLAN NOT AVAILABLE AT THIS TIME. BUILDING DESIGNED TO HAVE FIRE SEPARATION DISTANCE GREATER THAN 10 FT. TO PROPERTY LINES AS PER LOCAL BUILDING DEPARTMENT REQUIREMENTS.
2. THIS PLAN MAY BE REVERSED AND/OR MIRRORRED.
3. SEE STRUCTURAL PACKAGE FOR ALL STRUCTURAL STANDARDS AND DETAILS.
4. COMPLIANCE WITH HCD IGNITION RESISTANT CONSTRUCTION SYSTEM REQUIREMENTS? (CBC CHAPTER 7A) NO
5. TO BE INSTALLED ON A PERMANENT FOUNDATION? NO
6. THIS BUILDING IS DESIGNED TO COMPLY WITH THE COMMERCIAL MODULAR REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS TITLE 25.

STATE REQUIRED INFORMATION ON USE AND LOCATION OF FACTORY-BUILT BUILDING

1. PROPOSED ADDRESS 224-246 SOUTH VAN NESS AVE AND/OR LOCATION OF UNIT. SAN FRANCISCO, CA 94103
2. EXPLANATION OF BUILDING USE. RESTROOMS
3. SET TYPE. PAD/PIER ABOVE GRADE

PHOENIX MODULAR

SUNBELT MODULAR, INC.
AMTEX | INDIAN | PHOENIX | M.R. STEEL | AMERIFAB

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PERMISSION.

DEALER:
DSMBI

PROJECT:
NAVIGATION CENTER
DIVISION CIRCLE

SERIAL NUMBER:
PMI-3828-1256

STATES:
CALIFORNIA

DRAWN BY:
KN/BS

PLOT DATE:
3/13/2018

REV # / DATE:
#1 2/19/2018 PR#4

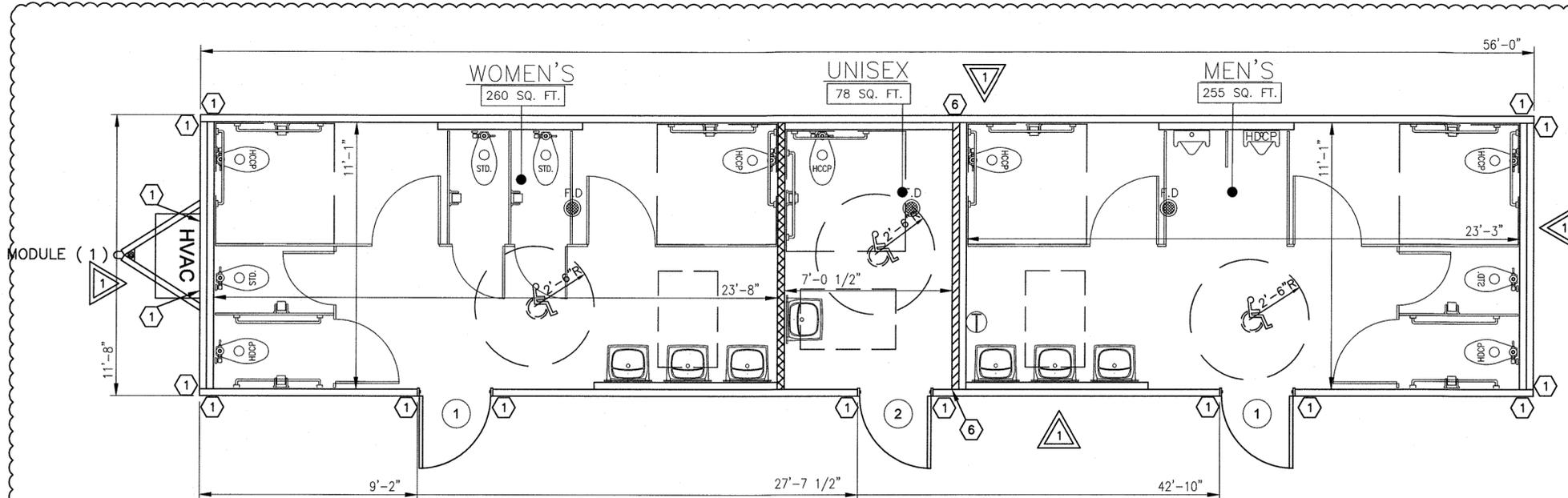
FINAL RELEASE
MAR 13 2018

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR. BLDG. C #C206
PHOENIX, AZ. 85029
(602) 327-4769

SHEET:
1
OF
6

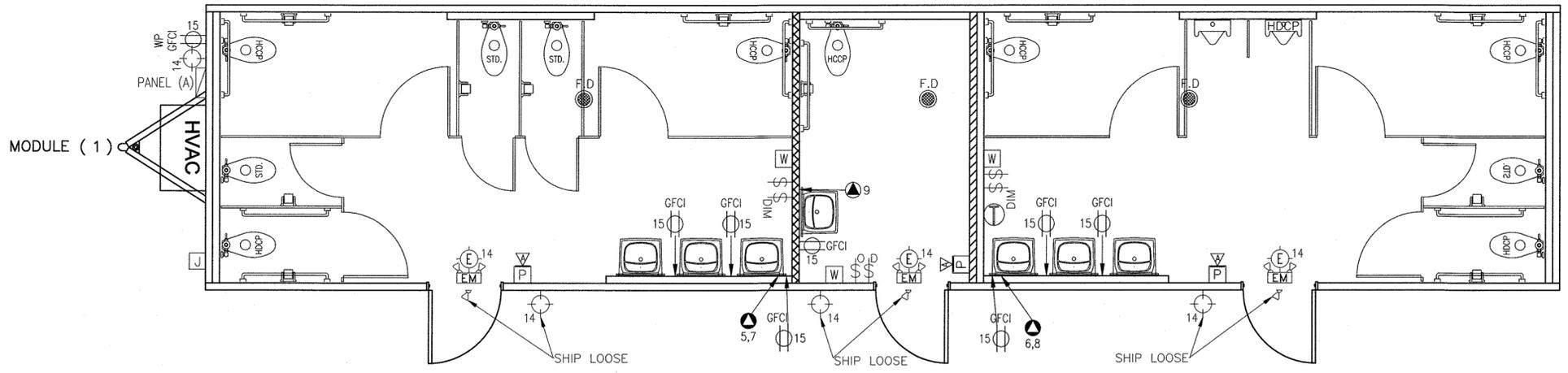
| | |
|--|---|
| <p>FRAME / CHASSIS:</p> <p>Frame Type: Basement Quantity: (1) EA Size: 11'-8" x 56'-0" Type: Outrigger @ 96 in O.C. Crossmember @ 96 in. O.C. Main Rails @ 99 1/2 in. O.C. Beam Size: 12 in. Jr. I-beam Axles: Five 6000# rated with (All) brake Hitch: Detachable Tires: 8x14.5 14 ply rated</p> <p><u>Additional Frame / Chassis Items Included in Quoted Price:</u> Item 1: M.R. Steel Metal frames.</p> | <p>FINISHES:</p> <p>FLOOR COVERING Type 1: 0.080 Self Cove Linoleum covered up wall (6 in. min) Location: (Thru-Out) Color to be: (White Cliff)</p> <p>BASE Cove Base 1: 6 in. Self Cove. (See Floor Covering) Location: (Thru-Out)</p> <p>WALLS Covering 1: FRP over 1/2 in. MR GYP to Ceiling Height, Raw 1/2 in. MR GYP remainder way to Rafters. Location: (Full Height Walls Only) Covering height: 8 ft. Color: (White)</p> <p>Covering 2: FRP over 1/2 in. MR GYP to Ceiling Height, Location: (Remainder) Covering height: 8 ft. Color: (White)</p> <p>TRIM Wall Trim 1: FRP trim Color to be: (To match FRP)</p> <p>CEILING Type 1: 2 ft. x 4 ft. HEAVY DUTY T-Grid w/ Struts & wires (Armstrong Kitchen Zone #672 (VINYL WASHABLE) or Equal) Height: 7'-10"</p> <p>EXTERIOR Siding body: Color: (COOL BLUE 2058-40) 8 ft. sheets Hood: Color: (COOL BLUE 2058-40) Corner trim: Color: (COOL BLUE 2058-40) Door & window trim: Color: (COOL BLUE 2058-40) Bottom horizontal trim: Color: (COOL BLUE 2058-40) Intermediate horizontal trim: Color: (COOL BLUE 2058-40) separates hood & body Top horizontal trim: Color: (COOL BLUE 2058-40) All paint to be: Satin Finish, Gliden to match Benjamin Moore</p> |
| <p>FLOOR CONSTRUCTION:</p> <p>Floor Joist: 2X8 #2 HF equal or better Joist Length: 133-7/8 in. Joist Spacing: 16 in. O.C. Floor: Single layer 3/4 in. Sturd-I-Floor. Insulation: R-19 unfaced fiberglass batt Bottom: Reinforced Plastic</p> <p><u>Additional Floor Items Included in Quoted Price:</u> Item 1: Interior shearwall - dbi joist directly below interior shearwall (See Detail A/4)</p> | <p>EXTERIOR WALL CONSTRUCTION:</p> <p>Framing: Stud: 2X4 #2 HF equal or better @ 16 in. O.C. Top Plate: Double 2X4 #2 HF equal or better Bottom Plate: Single 2X4 #2 HF or better Header: (2) 2x4 header with 1/2 in. shim at all exterior openings (UNO)</p> <p>Insulation: R-13 Kraft back fiberglass batt Siding Type: 7/16 in. LP Smart-panel vertical siding (8" grooves) with barricade wrap underlayment. Sidewall Height: See cross section for heights</p> <p><u>Additional Exterior Wall Items Included in Quoted Price:</u> N/A</p> |
| <p>INTERIOR WALL CONSTRUCTION:</p> <p>Framing: Stud: 2X4 #2 HF equal or better @ 16 in. o.c. Top plate: Single 2X4 #2 HF equal or better (Double as needed) Bottom plate: Single 2X4 #2 HF or better bottom plate Stud length: 92-5/8 in. (Ceiling Ht.), Full Ht. (Dividing Walls only)</p> <p>Insulation: R-11 unfaced battens (Full Ht. walls only)</p> <p><u>Additional Interior Wall Items Included in Quoted Price:</u> Item 1: Interior shearwall (see floor plan for location);(See Detail A/4) Sheathing: 7/16" OSB (one side of the wall) Top plate: Fasten to rafter with 3" x 0.131" nails at 4 in. O.C. (4 per stud bay) Bottom plate: Fasten to double joist with 3" x 0.131" nails at 4 in. O.C. (4 per stud bay)</p> | <p>EXTERIOR/INTERIOR DOORS: (SEE DOOR SCHEDULE)</p> <p>WINDOWS: (NONE PROVIDED)</p> <p>CLOSEUP: Type: Single Unit Notes: Module NOT TO exceed 12'-0"</p> <p>APPLIANCES: None provided</p> <p>ACCESSORIES: Cabinets: None provided Counters: None provided Shelving: None provided</p> |
| <p>ROOF CONSTRUCTION:</p> <p>Roof Type: Complex Roof Slope: 1/4 to 12 Rafter size: 2X10 #2 HF equal or better Rafter Length: 137 in. Spacing: 16 in. O.C. Insulation: R-38 CATHEDRAL unfaced fiberglass batt with support netting Sheathing: 1/2 in. 24/0 Sheathing (FULLY BLOCKED) Roofing: 45 mil single ply EPDM over 1/4" Densdeck Color: White</p> <p><u>Additional Roof Items Included in Quoted Price:</u> Item 1: Interior shearwall - rafter directly above interior shearwall (See Detail A/4)</p> | |





1 FLOOR PLAN
 1/4"=1'-0" SQUARE FOOTAGE - 654 S.F.
 OCCUPANCY LOAD = 19

HATCHING DENOTES:
 [Hatched Box] INTERIOR SHEARWALL w/INSULATION (SEE DETAIL A/4)
 [Cross-hatched Box] INSULATED FULL HEIGHT WALL



2 ELECTRICAL PLAN
 1/4"=1'-0"

STRUCTURAL LEGEND

| | |
|-------------------|--|
| [Triangle with X] | SHEARWALL TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |
| [X] | HOLD DOWN TAG (SEE STRUCTURAL PACKAGE FOR DESCRIPTION, SHEET S24) |

PLUMBING SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|----------|---|----------|
| [Symbol] | FLOOR MNT'D ELONGATED BOWL, FOR HANDICAPPED (KOHLER K-96057-0) / TOILET SEAT (KOHLER K-4731-C 0). FLUSHOMETER (ROYAL MODEL 111-1.28 / 3910168) HANDLE ON OPEN SIDE. | 7 |
| [Symbol] | FLOOR MNT'D ELONGATED BOWL (KOHLER K-96053-0) w/ TOILET SEAT (KOHLER K-4731-C 0). FLUSHOMETER (ROYAL MODEL 111-1.28 / 3910168). | 4 |
| [Symbol] | WALL MOUNT STANDARD URINAL (HANDICAPPED HEIGHT) MOUNTED AT 17" A.F.F. TO LIP EDGE. (NO BRAND SPECIFIED). | 1 |
| [Symbol] | WALL MOUNT STANDARD URINAL (STANDARD HEIGHT) MOUNTED AT 24" A.F.F. TO LIP EDGE. (NO BRAND SPECIFIED). | 1 |
| [Symbol] | ONE SET GRAB BARS, INCLUDES: (1) 36" LONG & (1) 42" LONG. MOUNTED @ 34" A.F.F. (INCLUDE 18" LONG GRAB BAR) | 5 SET(S) |
| [Symbol] | ONE SET GRAB BARS, INCLUDES: (2) 42" LONG MOUNTED @ 34" A.F.F. | 2 SET(S) |
| [Symbol] | TOILET PAPER HOLDER PROVIDED AND INSTALLED ON SITE BY OTHERS. BLOCKING PROVIDED AT FACTORY. | 11 |
| [Symbol] | WALL HUNG LAVATORY W/ 29" SPACE UNDERNEATH RIM FOR HANDICAPPED (KOHLER K-2007-0) w/ GOOSENECK FAUCET (TOTO TEL151-D10ET #CP). INCLUD 9"-TRAP COVER. | 7 |
| [Symbol] | 24"x36" MIRROR @ 38" A.F.F. (STAINLESS STEEL FRAME) (NO BRAND SPECIFIED). | 7 |
| [Symbol] | POINT OF USE WATER HEATER (SINGLE LAVY) BRAND: EEMAX SP3512 120V - 3.5kW | 1 |
| [Symbol] | POINT OF USE WATER HEATER (MULTIPLE LAVIES) BRAND: CHROMOMITE E-80FLP 240V - 8kW | 2 |
| [Symbol] | 2" FLOOR DRAIN w/ TRAP GUARD (NO BRAND SPECIFIED) | 3 |

NOTE:
 1. INCLUDE IN-LINE STRAINER
 2. INCLUDE (6) CALIFORNIA ADA RESTROOM SIGNS. (1) ON DOOR, (1) ON WALL.
 3. (8) MODESTY PARTITIONS (BOBRICK) COLOR: TERRA COTTA (S203)
 4. (3) 3/4" WATER HAMMER ARRESTOR

ELECTRICAL SCHEDULE

| SYMBOL | DESCRIPTION | CLR | QTY | REMARKS |
|----------|--|-------|-----|---|
| [Symbol] | 225 AMP 1 PHASE 120/240 W/225 AMP MAIN. 60" A.F.F. TO TOP OF PANEL/ EXT. SURFACE. (N.B.S.) | N/A | 1 | |
| [Symbol] | GFCI GROUND FAULT CIRCUIT INTERRUPT RCPT. W/ COVER PLATE @ 42" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 7 | |
| [Symbol] | GFCI DUPLEX RCPT. W/ WEATHER PROOF COVER PLATE 18" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 1 | |
| [Symbol] | SINGLE POLE SWITCH W/COVER PLATE @ 46" A.F.F. U.N.O. (NO BRAND SPECIFIED) | IVORY | 2 | |
| [Symbol] | WALL MNT'D DIMMING SWITCH w/ COVER PLATE @ 46" A.F.F. LUTRON DVY (OR EQUAL) | IVORY | 2 | |
| [Symbol] | WALL MNT'D OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. WATTSTOPER ISO-DIV (OR EQUAL) | IVORY | 1 | |
| [Symbol] | WALL MNT'D DIMMING/OCCUPANCY SENSOR W/ COVER PLATE @ 46" A.F.F. LUTRON MS-2101 (OR EQUAL) | IVORY | 1 | |
| [Symbol] | CEILING MNT'D DUAL RELAY OCCUPANCY SENSOR (WATTSTOPER 13-300 OR EQUAL) w/ POWER PACK (8Z-50) | WHITE | 2 | |
| [Symbol] | HARD WIRED SINGLE GANGED J-BOX FOR INSTA-HOT @ 16" A.F.F. W/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 1 | 120V |
| [Symbol] | HARD WIRED SINGLE GANGED J-BOX FOR INSTA-HOT @ 16" A.F.F. W/ COVER PLATE (NO BRAND SPECIFIED) | N/A | 2 | 240V |
| [Symbol] | 2x4 HW J-BOX @ METERS W/COVER PLATE U.N.O. | N/A | 3 | FOR FUTURE USE |
| [Symbol] | 150 CFM CEILING EXHAUST FAN ONLY BRAND: BROAN QTXE150 (OR EQUAL) | N/A | 7 | THRU WALL |
| [Symbol] | 2x4-LED 4200 LUMENS FIXTURE, RECESSED, DIFFUSED (NO BRAND SPECIFIED) | N/A | 7 | DIMMABLE |
| [Symbol] | PORCH LIGHTS 80W A.F.F. U.N.O. BRAND: WESTGATE LSW-22CE-PC | N/A | 4 | (3) SHIPPED LOOSE |
| [Symbol] | WALL MNT EMERGENCY LIGHT, w/ RED EXIT LIGHT MNT @ 88" A.F.F. w/ BATT. BACKUP & REMOTE HEAD MNT. @ 89" A.F.F. | N/A | 3 | OCTAGONAL BOX FOR REMOTE HEAD SHIPPED LOOSE |
| [Symbol] | 4x4 J-BOX @ 66" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY W/ COVER PLATE U.N.O. | IVORY | 3 | FOR FUTURE AUDIO/VISUAL |
| [Symbol] | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 3 | FOR FUTURE PULL STATION |
| [Symbol] | 2x4 J-BOX @ 46" A.F.F. w/ 3/4" CONDUIT STUBBED TO CEILING CAVITY w/ COVER PLATE (U.N.O.) | IVORY | 3 | FOR FUTURE USE |
| [Symbol] | THERMOSTAT @ 46" A.F.F. U.N.O. BRAND: HP: WHITE ROGERS IF951277 | N/A | 1 | (PROGRAMMABLE) |

NOTE:
 1. ALL MEASUREMENTS FOR DEVICES WHICH REQUIRE A HEIGHT ARE TO THE CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE
 2. ALL EXTERIOR ELECTRICAL DEVICES TO BE WEATHERPROOF.
 3. FIRE ALARM SYSTEM PROVIDED AND INSTALLED ON SITE BY OTHERS. (WHEN APPLICABLE.)

DOORS:

| Qty | NO. | Type | Jamb | Wall Thickness | Glazing | Size | Rough Opening | U-Factor | Color | Closer | Deadbolt | Hardware | Fire Rating | Keying | Notes |
|-----|-----|------------------------------------|-----------------------------|----------------|---------|------|---------------|----------|---|-----------|-----------------|-----------------------------|-------------|--------|--|
| 2 | 1 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA, COOL BLUE 2058-40 | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE-MATCH FRP) EXTERIOR: (COOL BLUE 2058-40) | HYDRAULIC | DOUBLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP (INCLUDE SIGN: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED) |
| 1 | 2 | COMMERCIAL STEEL, INSULATED 18 GA. | KD 16 GA, COOL BLUE 2058-40 | 4 7/16" | N/A | 3068 | 38" x 81" | 0.70 | INTERIOR: (WHITE-MATCH FRP) EXTERIOR: (COOL BLUE 2058-40) | HYDRAULIC | SINGLE CYLINDER | PASSAGE LEVER, TELL GRADE 2 | NONE | ALIKE | DRIP CAP, (2) STD & (1) NRP HINGES, WEATHERSTRIPPING, THRESHOLD, DOOR SWEEP |

PHOENIX MODULAR
 5301 W. MADISON ST. - PHOENIX, AZ 85043
 PH 602-447-6460 FAX 602-447-6476
SUNBELT MODULAR, INC.
 AMTEK | INDIACOM | PHOENIX | M.R. STEEL | AMERIFAB

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DEALER:
 DSMBI

PROJECT:
 NAVIGATION CENTER
DIVISION CIRCLE
SERIAL NUMBER:

PMI-3828-1256

STATES:
 CALIFORNIA

DRAWN BY:
 KN/BS

PLOT DATE:
 3/13/2018

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 #1 2/19/2018 PR#4

FINAL RELEASE
 MAR 13 2018

R. MARK STEELE, P.E.
 CORPORATE ENGINEER
 SUNBELT MODULAR, INC
 11225 N. 28TH DR. BLDG. C #C206
 PHOENIX, AZ 85029
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SHEET:
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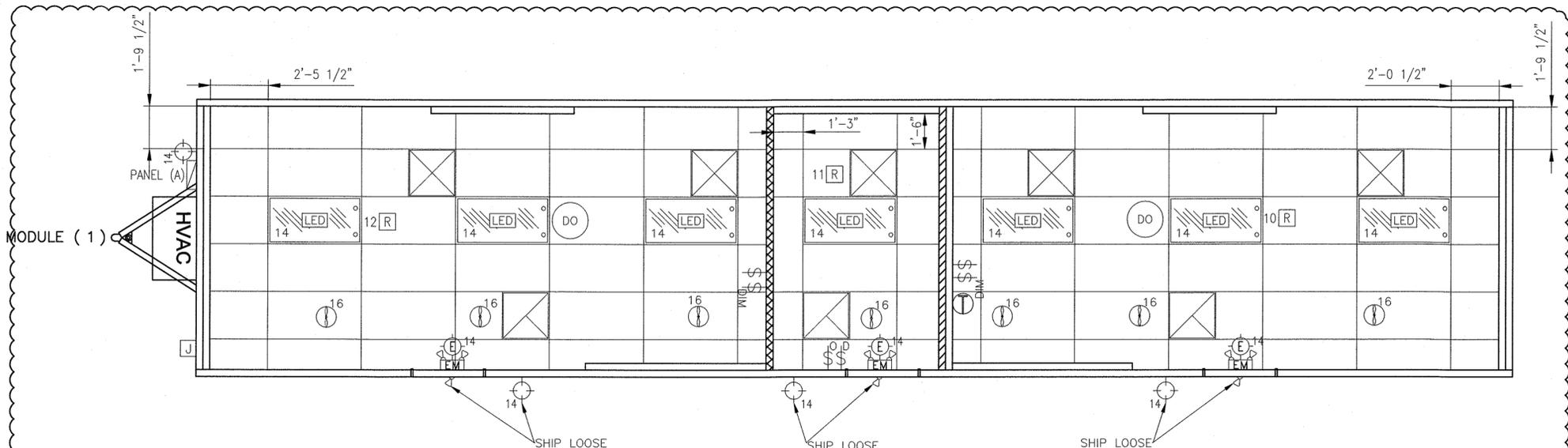
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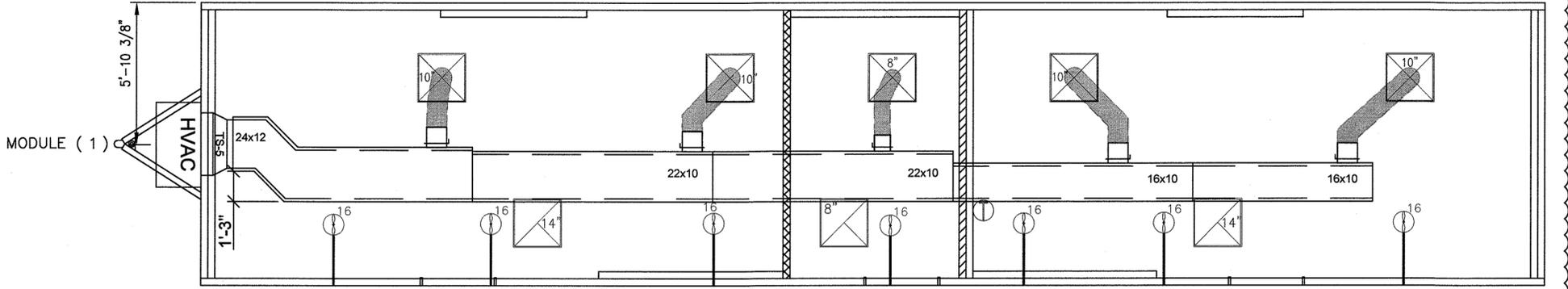
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 PHOENIX, AZ 85029
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SHEET:
3
 OF
6



1 REFLECTED CEILING PLAN
 1/4"=1'-0"



2 HVAC PLAN
 1/4"=1'-0"

| HVAC SCHEDULE | | |
|---------------|---|------|
| SYM | DESCRIPTION | QTY |
| HVAC | 5 TON HP W/ 15 kw HEAT STRIP (F.A.D.) WITH 100% FRESH AIR KIT. MODEL # (W60H2-A15) OR EQUAL | 1 |
| □ | 31"x11" TO 24"x12" GALV. SLEEVE 16" LONG | 1 |
| □ | 24"x12"x10"-0" FIBERGLASS DUCT. | 1 |
| □ | 22"x10"x10"-0" FIBERGLASS DUCT. | 2 |
| □ | 16"x10"x10"-0" FIBERGLASS DUCT. | 1.75 |
| □ | 24"x24" 4-WAY THROW DIFFUSER. 8" COLLAR W/ SCOOP & DAMPER 8" FLEX. 8" START COLLAR. | 1 |
| □ | 24"x24" 4-WAY THROW DIFFUSER. 10" COLLAR W/ SCOOP & DAMPER 10" FLEX. 10" START COLLAR. | 4 |
| □ | 24"x24" RELIEF DAMPER. 14" FLEX TO 14" ROOF VENT | 2 |
| □ | 24"x24" RELIEF DAMPER. 8" FLEX TO 8" ROOF VENT | 1 |

NOTE: INSTALL HVAC DUCTS 6" DOWN FROM RAFTERS.

| 225 AMP 120/240 1 PHASE PANEL WITH 225 AMP MAIN BREAKER (NEMA 3R) | | | | | | | | | |
|--|-------------------------------|---------|-----|-------|----|-----|---------|--------------------------------------|----|
| WS | Description | Circuit | BRK | A | B | BRK | Circuit | Description | WS |
| 6 | 15kw HEAT STRIP | 1 | 60 | 5640 | 60 | 2 | 60 | HVAC UNIT 5-TON | 6 |
| 6 | | 3 | 2 | 5640 | 2 | 4 | 2 | | 6 |
| 8 | DUAL INSTA-HOTS | 5 | 40 | 4000 | 40 | 6 | 40 | DUAL INSTA-HOTS | 8 |
| 8 | | 7 | 2 | 4000 | 2 | 8 | 2 | | 8 |
| 10 | SINGLE INSTA-HOT | 9 | 30 | 3500 | 20 | 10 | 30 | HW J-BOX (RAFTER) | 12 |
| 12 | HW J-BOX (RAFTER) | 11 | 20 | 1800 | 20 | 12 | 20 | HW J-BOX (RAFTER) | 12 |
| | SPACE | 13 | | 414 | 20 | 14 | | (7) LEDS, (4) PORCH, (3) EM/EX LITES | 12 |
| 12 | (7) GFCI RECEPTS, (1) WP GFCI | 15 | 20 | 1440 | 20 | 16 | 20 | (7) EXHAUST FANS | 12 |
| | | | | 25594 | | | | Total | |
| | | | | 25970 | | | | | |

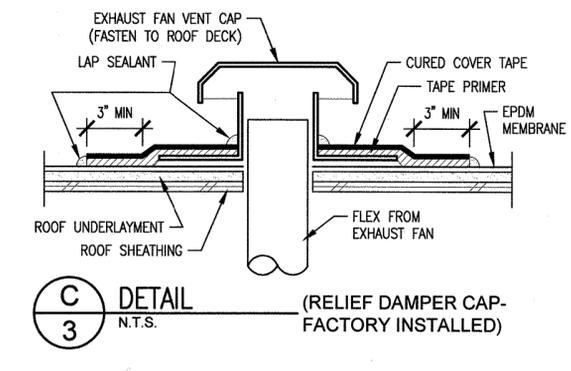
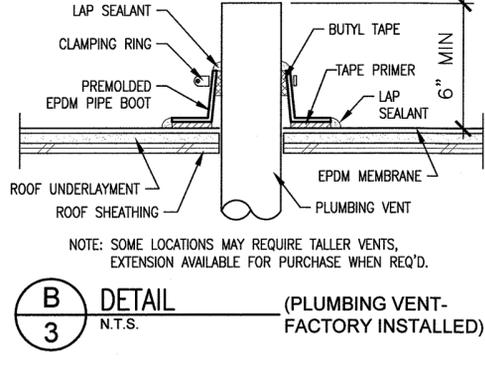
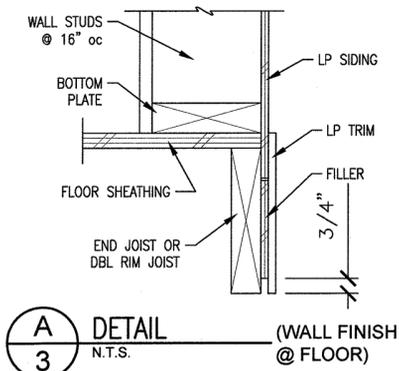
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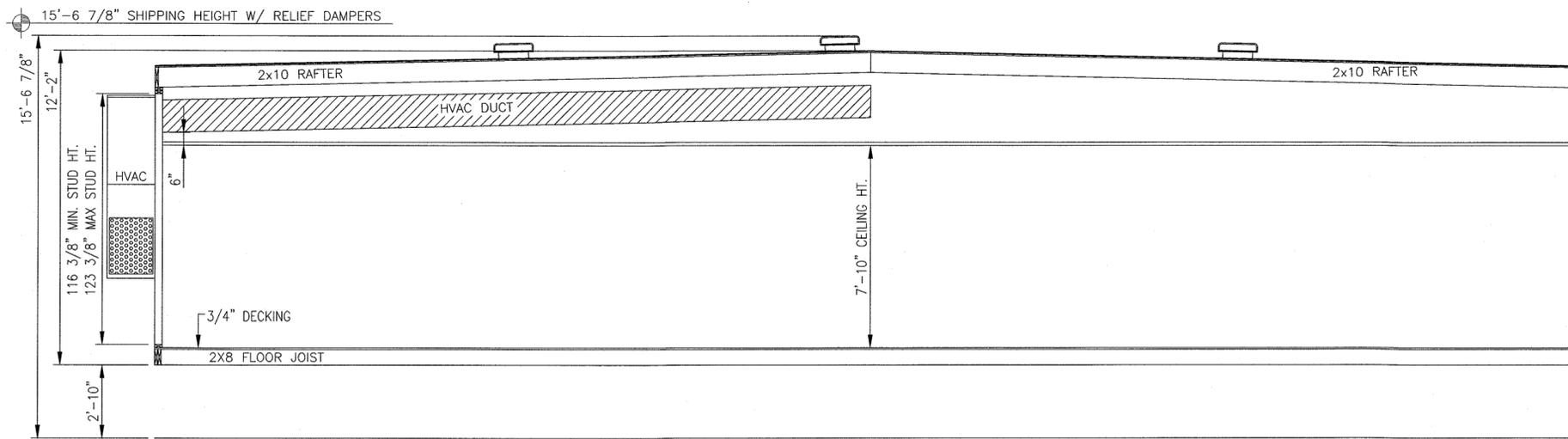
GENERAL LIGHTING:

- 593 SQ. FT. x 3.5 x 1.25 = 2594 watts
- 8 RECEPTACLES = 1440 watts
- 1 HVAC UNITS = 23760 watts
- 3 WATER HEATER = 19500 watts
- 3 HWJ-BOXES = 5400 watts

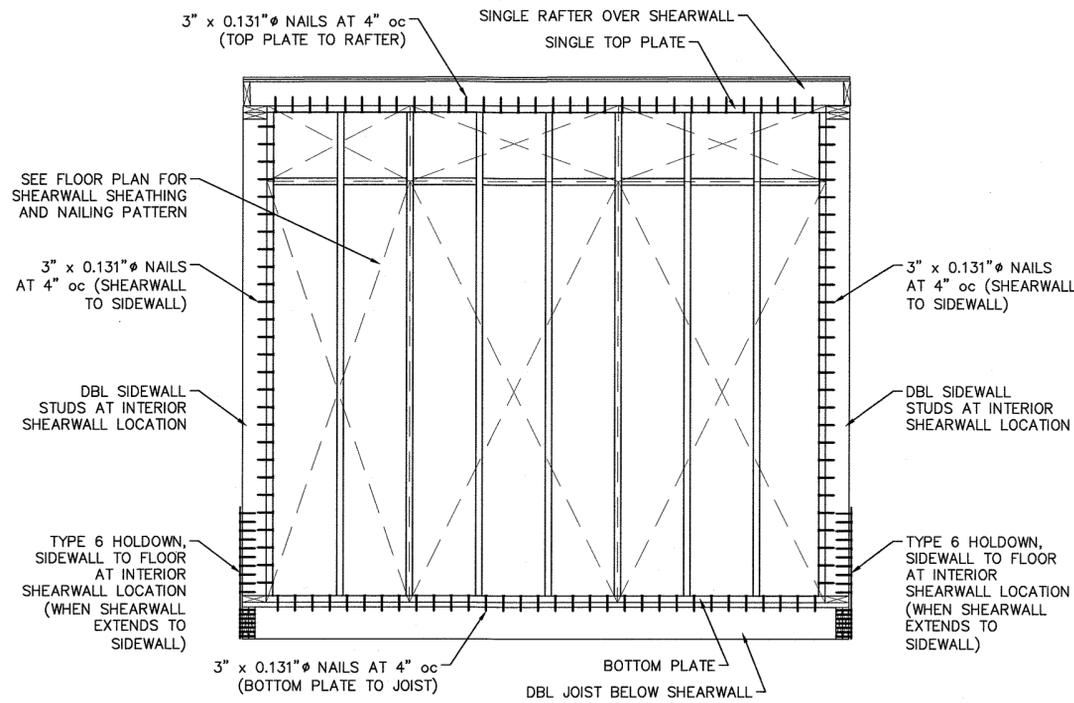
TYPE OF PANEL: LOAD CENTER

52694 watts divide by 240volts = 219.6 AMPS TOTAL



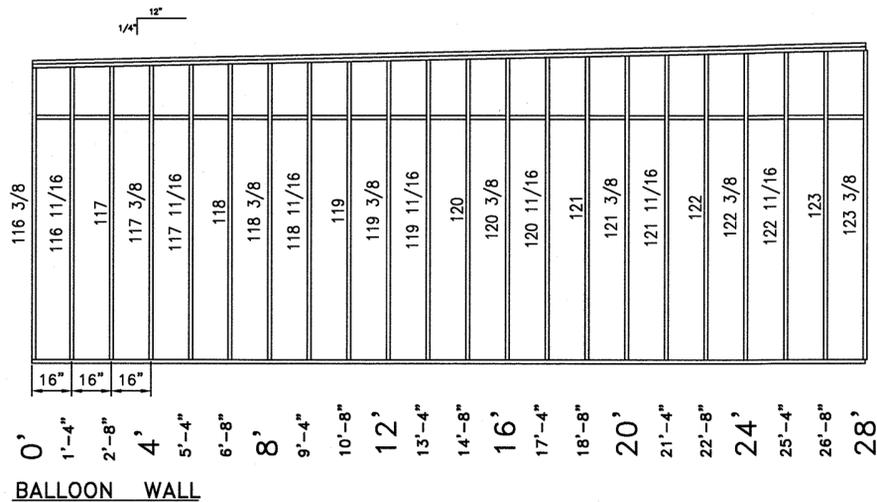


1 BUILDING CROSS SECTION
3/8"=1'-0"



INTERIOR SHEARWALL CONSTRUCTION DETAIL

MAXIMUM UNIT SHEAR OF 350 plf
MAXIMUM HOLDOWN CAPACITY = 4000#.
(DETERMINE BY PROJECT CALCS)



A
4 DETAIL (INTERIOR SHEARWALL-FACTORY INSTALLED)
N.T.S.

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DSMBI

PROJECT:
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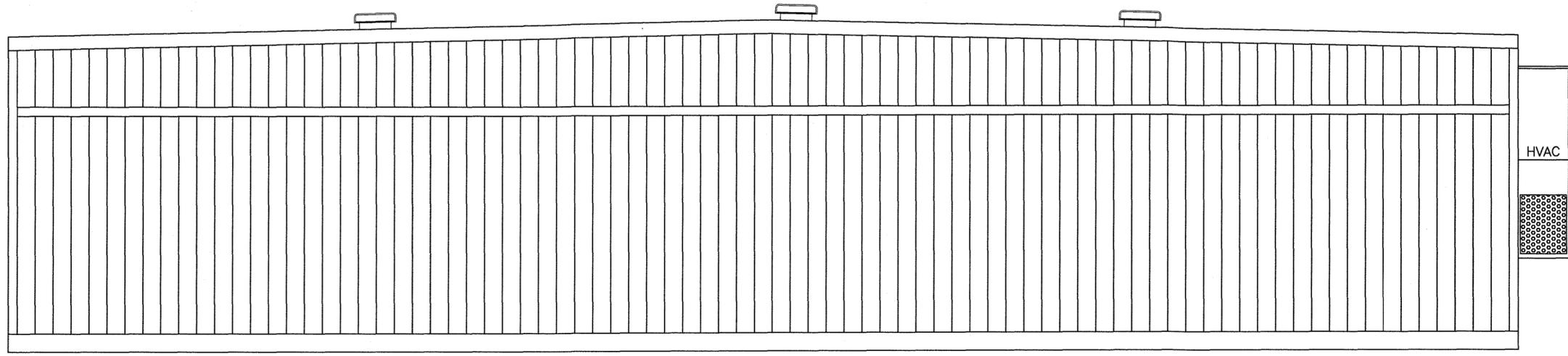
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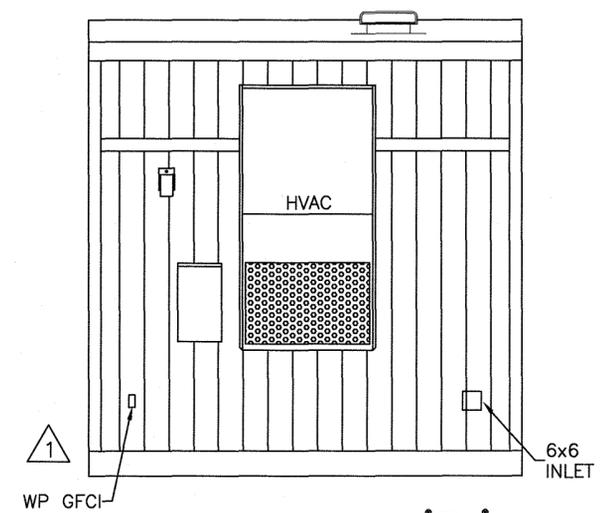
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 OF
6

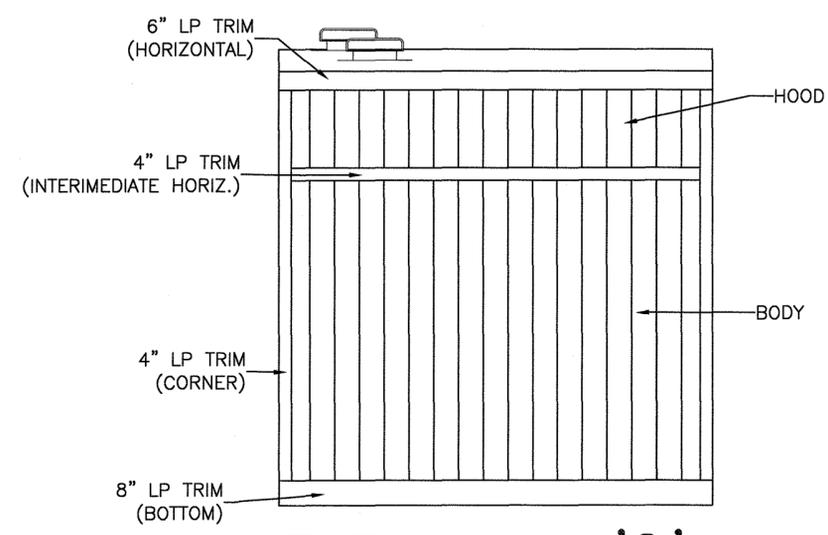
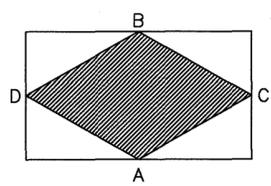


ELEVATION 'B'

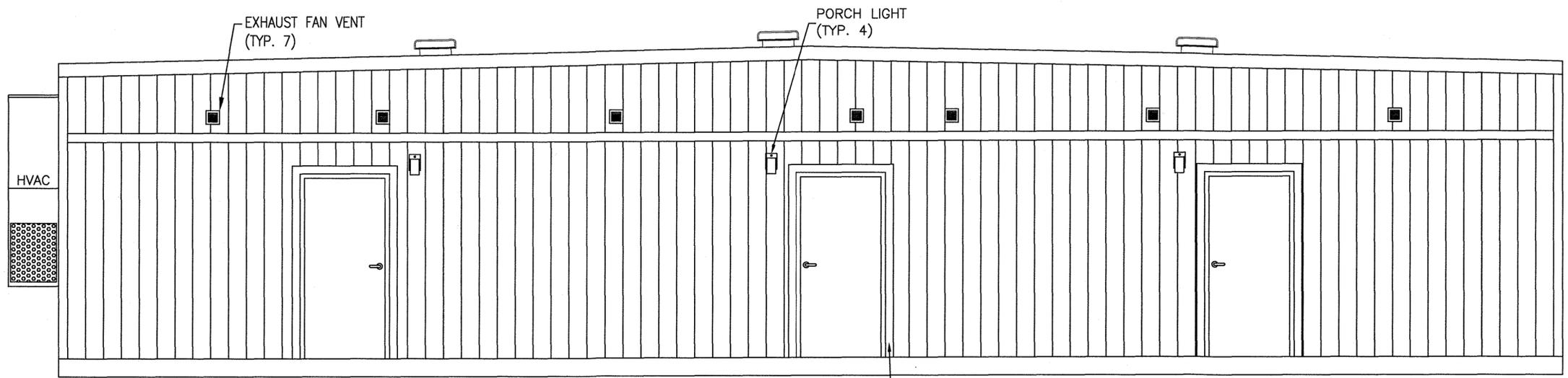
15'-6 7/8" SHIPPING HEIGHT W/ RELIEF DAMPERS



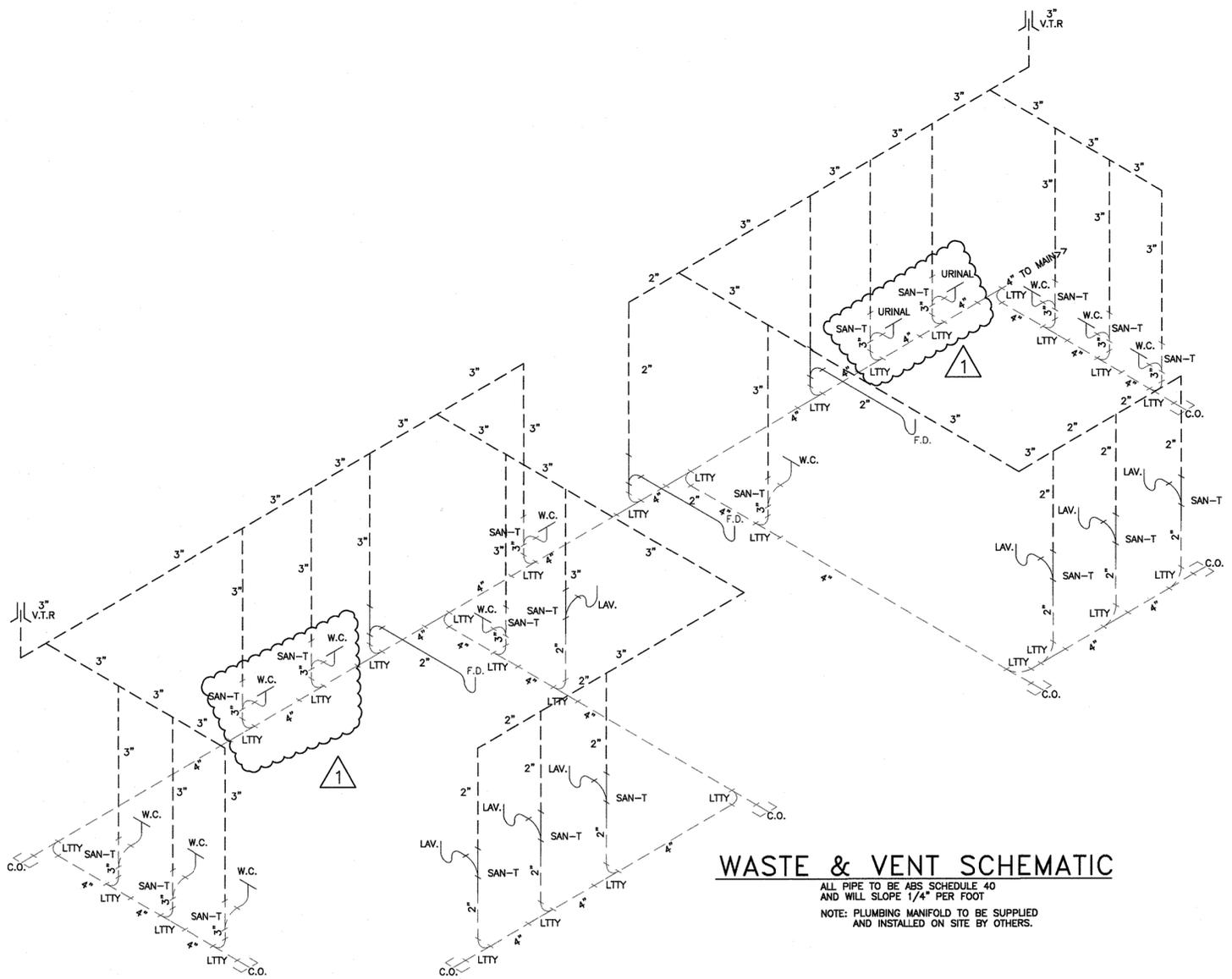
ELEVATION 'D'



ELEVATION 'C'

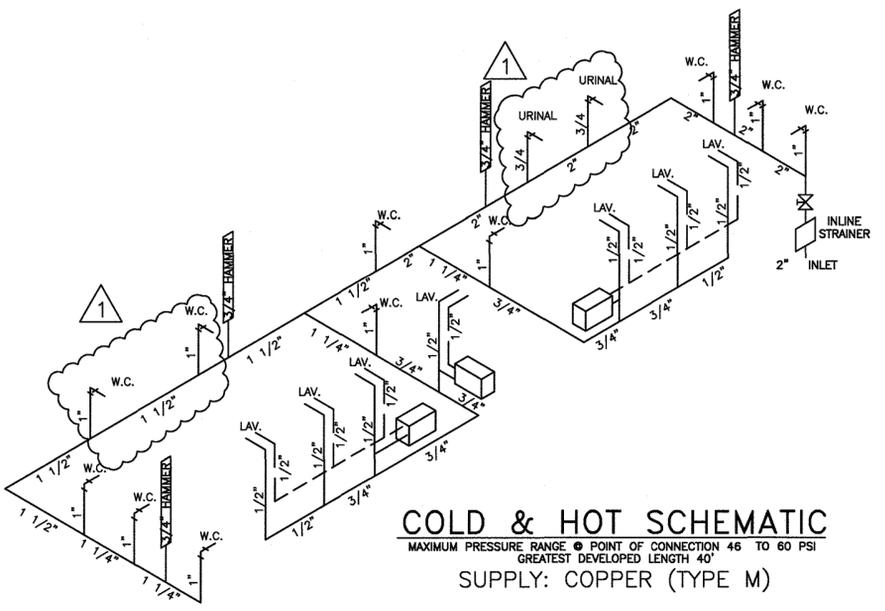


ELEVATION 'A'



WASTE & VENT SCHEMATIC

ALL PIPE TO BE ABS SCHEDULE 40
AND WILL SLOPE 1/4" PER FOOT
NOTE: PLUMBING MANIFOLD TO BE SUPPLIED
AND INSTALLED ON SITE BY OTHERS.



COLD & HOT SCHEMATIC

MAXIMUM PRESSURE RANGE @ POINT OF CONNECTION 46 TO 60 PSI
GREATEST DEVELOPED LENGTH 40'
SUPPLY: COPPER (TYPE M)

THESE DRAWINGS
REMAIN THE PROPERTY OF
PHOENIX MODULAR AND ARE
NOT TO BE USED IN ANYWAY
WITHOUT WRITTEN
PERMISSION.

DEALER:
DSMBI

PROJECT:
NAVIGATION CENTER
DIVISION CIRCLE

SERIAL NUMBER:
PMI-3828-1256

STATES:
CALIFORNIA

DRAWN BY:
KN/BS

PLOT DATE:
3/13/2018

REV # / DATE:
#1 2/19/2018 PR#4

FINAL RELEASE
MAR 13 2018

R. MARK STEELE, P.E.
CORPORATE ENGINEER
SUNBELT MODULAR, INC
11225 N. 28TH DR. BLDG. C #C206
PHOENIX, AZ 85029
(602) 327-4769

SHEET:
6
OF
6

Appendix D



NAVIGATION CENTER

5TH & BRYANT

95% CD | MARCH 29, 2018



BUILDING DESIGN AND
CONSTRUCTION DIVISION



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager
30 Van Ness Avenue Suite 4100
San Francisco, CA 94102-6028 Fax (415)557-4701 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

ISSUE DATE: MARCH 23, 2018

| No. | Date | Revisions |
|-----|-----------|-----------|
| 1 | 3/23/2018 | 95% CD |
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| | | |

Bureau Mgr. _____ JULIA LAUE
Section Mgr. _____ LOURDES GARCIA
Technical Mgr. _____ VITO VANONI

Proj. Mgr. _____
Proj. Arch. _____ AS
Drawn _____ EM, TA, AS
Checked by _____ W



Drawing Title _____

COVER SHEET

Sheet No. _____
G 0.01

Scale: _____
Project No. _____ Contract ID No.: 1000009419



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager
30 Van Ness Avenue Suite 4100
San Francisco, CA 94102-6028 Fax (415)557-4701
(415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____



MARCH 23, 2018

| No. | Date | Revisions |
|-----|------|-----------|
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Proj. Mgr. _____
Proj. Arch. _____ AS
Drawn _____ EM, TA, AS
Checked by _____ W



Drawing Title _____

3D VIEWS QUALITY OF SPACE

Sheet No. _____

G 0.02

Scale: 12" = 1'-0"
Project No. _____ Contract ID No.: 1000009419



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager

30 Van Ness Avenue Suite 4100
San Francisco, CA Fax (415)557-4701
94102-6028 (415)557-4700

Project

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant

MARCH 23, 2018

| No. | Date | Revisions |
|-----|------|-----------|
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|-------------|------------|
| Proj. Mgr. | |
| Proj. Arch. | AS |
| Drawn | EM, TA, AS |
| Checked by | WV |

Drawing Title

PROJECT DATA, GENERAL NOTES, SHEET INDEX, ABBRE.

Sheet No.

G 0.03

Scale: As indicated

Project No. Contract ID No.: 1000009419



DESCRIPTION OF WORK

THE 5TH AND BRYANT STREET NAVIGATION CENTER IS A COMPLEX OF MODULAR TRAILER BUILDINGS SERVING AS DORMITORIES, RESTROOMS, SHOWERS, AND OFFICES FOR SERVING THE HOMELESS POPULATION, AND IS LOCATED ON AN EXISTING CALTRANS SITE AT 5TH AND BRYANT STREET IN SAN FRANCISCO, CA.

THE PROJECT SCOPE OF WORK INVOLVES THE CONSTRUCTION OF WOOD DECK, RAMPS, STAIRS, TRELLISES AND FENCING, PLUMBING, ELECTRICAL, AND FIRE SPRINKLER CONNECTIONS IN SUPPORT OF MODULAR TRAILER BUILDINGS (PROCURED AND INSTALLED BY OTHERS, N.I.C.) THE WORK IS LOCATED WITHIN A VACATED CALTRANS SITE.

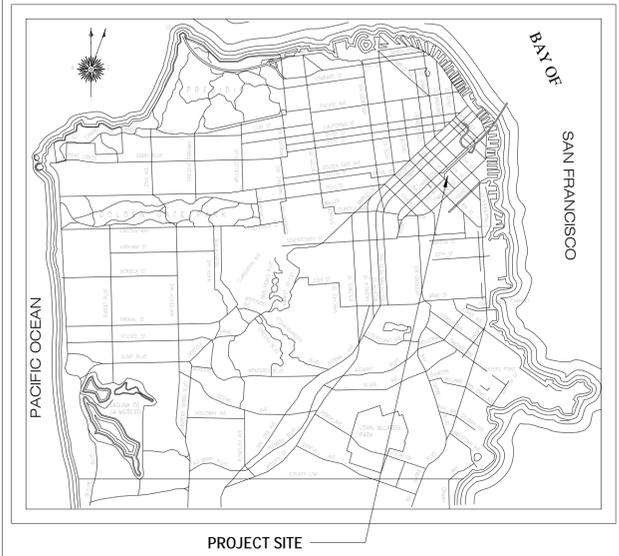
PROJECT DATA

| | |
|--|---|
| BUILDING CODE ANALYSIS | |
| PROJECT NAME: | 5TH AND BRYANT NAVIGATION CENTER |
| SITE OWNER: | CALTRANS |
| ADDRESS: | 680 BRYANT STREET SAN FRANCISCO, CA 94107 |
| | |
| OCCUPANCY: | R-1, RESIDENTIAL: CONGREGATE RESIDENTS (TRANSIENT) WITH MORE THAN 10 OCCUPANTS |
| | |
| TYPE OF CONSTRUCTION: | TYPE V-B |
| LOT/BLOCK NO.: | 3761/062 |
| ZONING: | P- PUBLIC |
| HEIGHT/BULK DISTRICT: | 30-X |
| YR. BLDG. BUILT: | VACANT CALTRANS SITE |
| TOTAL FLOOR AREA: | 7,790 SF (BUILDINGS) + 6,542 SF (DECK) = 14,332 SF |
| AREA OF WORK: | 21,393 SF (AREA OF IMPROVEMENT, INCL. SITE) |
| NUMBER OF STORIES: | 1 STORY (TRAILERS) |
| ACTUAL BUILDING HEIGHT: | 12'-1 1/2" TRAILER MAX HEIGHT |
| | |
| ALLOWABLE AREA PER 2016 CBC: | 22,000 SF FOR ASSEMBLY A1 (MOST RESTRICTIVE) |
| | |
| FIRE SPRINKLERS: | YES, WET (TRAILERS ONLY) |
| FIRE ALARM: | YES, AUTO ALARM WITH MANUAL PULL STATIONS |
| | |
| YR BUILDING WAS CONSTRUCTED: | CALTRANS PROPERTY, VACANT LOT |
| | |
| IS BUILDING IN HIGH FIRE HAZARD SEVERITY ZONE: | NO |
| | |
| SEISMIC JOINTS: | DECKS INDEPENDANTLY SUPPORTED |
| | |
| EMERGENCY RESPONDER: | YES, SAN FRANCISCO FIRE DEPARTMNT |
| | |
| RADIO COVERAGE: | YES |
| | |
| TOTAL OCCUPANT LOAD: | 162 (EXIT 1 = 81, EXIT 2 =81) |

APPLICABLE CODES

- 2016 SF BUILDING CODE
- 2016 SF ELECTRICAL CODE
- 2016 SF PLUMBING CODE
- 2016 SF FIRE CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, DOJ

LOCATION MAP



DRAWING INDEX

| | |
|----------------|---|
| GENERAL | COVER SHEET |
| G 0.01 | 3D VIEWS QUALITY OF SPACE |
| G 0.02 | PROJECT DATA, GENERAL NOTES, SHEET INDEX, ABBRE. |
| G 0.03 | ADA COMPLIANCE CHECKLIST, COMPLIANCE MEASURES |
| G 1.1 | EGRESS DIAGRAM |
| G 2.1 | ADA STANDARDS G-SHEETS FOR REFERENCE |
| G 3.11 - 3.39 | |
| CIVIL | SITE PLAN / SITE GRADING |
| C 0.1 | LEGEND, ABBREV., GENERAL NOTES, & CONTROL POINT LOCATIONS |
| SURVEY 1 OF 2 | SITE SURVEY |
| SURVEY 2 OF 2 | LEGEND, ABBREV., GENERAL NOTES & DETAILS |
| SW 0.1 | DRAINAGE PLAN |
| SW 1.0 | |
| ARCHITECTURE | SITE PLAN |
| A 1.2 | ELEVATED DECK PLAN |
| A 1.3 | FLOOR PLAN |
| A 2.0 | ROOF & TRELLIS PLAN |
| A 2.2 | TRELLIS DETAILS |
| A 2.3 | DECK FRAMING |
| A 2.4.1 | DECK FRAMING DETAILS |
| A 2.4.2 | EXTERIOR BUILDING ELEVATIONS |
| A 3.1.1 | EXTERIOR BUILDING ELEVATIONS |
| A 3.1.2 | INTERIOR COURTYARD ELEVATIONS |
| A 5.1 | RAMP & STAIR PLANS, SECTIONS, DETAILS |
| A 7.3 | SEATING AREA & PRIVACY SCREENING DETAILS |
| A 8.8 | EXTERIOR DETAILS MISC |
| A 8.8.1 | CHAINLINK GATE DETAILS |
| A 8.9 | GATE HARDWARE |
| A 8.10 | CHAINLINK FENCE & MISC. DETAILS |
| A 8.11 | FF&E PLAN |
| A 10.4 | FIRE ACCESS PLAN / DIAGRAM |
| SK 03 | TRAILER SHOP DRAWINGS (#3813- #3826) FOR REFERENCE ONLY |
| TRAILER SERIES | |
| FIRE | FIRE PROTECTION, LEGEND, ABBREV. & GENERAL NOTES |
| F 0.01 | FIRE PROTECTION, SITE PLAN & WATER FLOW DEMAND CALC |
| F 0.02 | SITE PLUMBING, FIRE PROTECTION (DESIGN-BUILD) |
| F 2.10 | FIRE PROTECTION DETAILS (DESIGN-BUILD) |
| F 6.0 | |
| PLUMBING | PLUMBING, ABBREV. LEGEND, AND GENERAL NOTES |
| P 0.01 | PLUMBING GENERAL NOTES |
| P 0.02 | SITE PLUMBING |
| P 2.10 | PLUMBING DETAILS |
| P 6.0 | |
| ELECTRICAL | LEGEND, SYMBOLS & ABBREV. |
| E 0.1 | SINGLE LINE DIAGRAM |
| E 0.2 | SWITCHBOARD DETAILS |
| E 0.3 | DETAILS |
| E 0.4 | SITE PLAN |
| E 3.0 | SIGNAL PLAN |
| E 4.0 | SIGNAL PLAN |
| E 5.0 | FIRE ALARM PLAN |

PROJECT DIRECTORY

| | |
|---|---|
| CLIENT DEPARTMENT OF HOMELESSNESS AND SUPPORTIVE HOUSING NINA MARINKOVICH REAL ESTATE DEVELOPMENT ANALYST NINA.MARINKOVICH@SFGOV.ORG | MECHANICAL ENGINEER BUILDING DESIGN AND CONSTRUCTION DEPARTMENT OF PUBLIC WORKS MECHANICAL SECTION 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102 P: 415.558.4000 |
| SITE OWNER CALIF STATE STATE LANDS COMMISSIONS 1120 N ST SACRAMENTO, CA 95814 | HYDRALICS ENGINEER INFRASTRUCTURE DESIGN AND CONSTRUCTION DEPARTMENT OF PUBLIC WORKS MECHANICAL SECTION 1680 MISSION STREET, 2ND FLOOR SAN FRANCISCO, CA 94103 P: 415.554.8339 |
| ARCHITECT BUILDING DESIGN AND CONSTRUCTION DEPARTMENT OF PUBLIC WORKS 30 VAN NESS AVENUE, SUITE 4100 SAN FRANCISCO, CA 94102 P: 415.557.4700 | ELECTRICAL ENGINEER BUILDING DESIGN AND CONSTRUCTION DEPARTMENT OF PUBLIC WORKS ELECTRICAL SECTION 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102 P: 415.558.4000 |
| CIVIL ENGINEER BUILDING DESIGN AND CONSTRUCTION DEPARTMENT OF PUBLIC WORKS STREETS AND HIGHWAYS SECTION 1680 MISSION STREET, 3RD FLOOR SAN FRANCISCO, CA 94103 P: 415.554.8268 | LANDSCAPE ARCHITECTURE BUILDING DESIGN AND CONSTRUCTION DEPARTMENT OF PUBLIC WORKS 30 VAN NESS AVENUE, 3RD FLOOR SAN FRANCISCO, CA 94102 P: 415.558.4000 |

GENERAL NOTES

- THE WORK INCLUDING MATERIALS AND INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH THE LATEST STATE AND LOCAL BUILDING CODES, LAWS, AND ORDINANCES AS INTERPRETED BY THE LOCAL BUILDING OFFICIAL.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS, OR SAFETY PROBLEMS ON THE JOBSITE.
- ALL PERMITS, INSPECTIONS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR UNLESS OTHERWISE STATED IN THE DESIGN DOCUMENTS. THE CONTRACTOR MUST FOLLOW CURRENT ELECTRICAL, MECHANICAL, AND PLUMBING CODES AND ACCESSIBILITY REQUIREMENTS.
- DIMENSIONING RULES:
 - DO NOT SCALE THE DRAWINGS. CONSULT CITY REPRESENTATIVE FOR DIMENSIONAL CLARIFICATION OR ADDITIONAL DIMENSIONING IF NEEDED.
 - ALL PAINT STRIPING IS DIMENSIONED TO THE CENTER OF THE STRIPE. ALL OTHER ARCHITECTURAL DIMENSIONS SHOWN ARE TO FINISH FACE UNLESS OTHERWISE NOTED.
 - DIMENSIONS MARKED V.I.F. ARE APPROXIMATE AND SHALL BE "VERIFIED" IN FIELD BY THE TRAILER FABRICATOR. REPORT FIELD MEASUREMENTS TO THE ARCHITECT FOR ARCHITECT'S REVIEW BEFORE PROCEEDING.
 - DIMENSIONS DESIGNATED AS "CLEAR" OR "CLR." SHALL BE MAINTAINED FROM FINISH FACE TO FINISH.
 - DIMENSIONS MARKED "MIN." OR "MIN. CLR." SHALL BE DETERMINED BY FIELD CONDITIONS & VERIFIED IN FIELD BUT SHALL NOT BE LESS THAN GIVEN DIMENSION. NOTIFY CITY REPRESENTATIVE IMMEDIATELY IF DIMENSION CONDITIONS CANNOT BE MET.
 - DIMENSIONS MARKED AS "MAX" OR "MAXIMUM" SHALL NOT EXCEED THE GIVEN DIMENSION. NOTIFY ARCHITECT IMMEDIATELY IF DIMENSION CONDITIONS CANNOT BE MET.
 - DIMENSIONS SHALL NOT BE ADJUSTED OR MODIFIED WITHOUT ACCEPTANCE BY THE ARCHITECT UNLESS NOTED AS "APPROX.", "APPROXIMATE", OR ±.
 - DIMENSIONS MARKED "A.F.F." ARE ABOVE FINISHED FLOOR MATERIALS. IN CARPETED AREAS, THE TOP OF SLAB OR SUBFLOORING IS CONSIDERED TO BE THE FINISHED FLOOR.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO PROPERLY PROTECT THE WORK IN PLACE FROM DAMAGE AND TO REPAIR TO ORIGINAL CONDITION ITEMS DAMAGED DURING THE COURSE OF THE WORK. THE TRAILER FABRICATOR SHALL TAKE ALL NECESSARY PRECAUTION TO PROTECT AREAS ADJACENT TO NEW CONSTRUCTION FROM NOISE, DEBRIS AND DUST THROUGHOUT THE PERFORMANCE OF THE CONTRACT. ANY DAMAGE OR LOSS OF PROPERTY DURING THE TERM OF THE CONTRACT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.
- INSTALL WORK PLUMB, LEVEL, SQUARE, TRUE, AND IN PROPER ALIGNMENT.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION & INSTALLATION.
- IF ARCHITECTURAL SITE VISITS ARE NOT ADDRESSED IN THE PROJECT MANUAL OR NO PROJECT MANUAL IS APPLICABLE, THE TRAILER FABRICATOR SHALL SCHEDULE SITE VISITS BY THE CITY'S AND THE OWNER'S REPRESENTATIVE AT LEAST 3 DAYS IN ADVANCE PRIOR INSTALLATION.
- PROTECT ALL UTILITIES, IMPROVEMENTS AND STRUCTURES AND RESTORE TO NEW CONDITION AT NO ADDITIONAL COST TO THE CITY IF DAMAGED DURING THE COURSE OF WORK.
- VERIFY THAT EXISTING CONDITIONS ARE AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. VERIFY ALL (E) BUILDING DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE CITY REPRESENTATIVE IMMEDIATELY OF VARIATIONS OR DISCREPANCIES. DO NOT PROCEED WITH AFFECTED WORK UNTIL THE VARIATIONS OR DISCREPANCIES ARE RESOLVED BY THE CITY REPRESENTATIVE.
- UPON COMPLETION OF THE WORK OR SHORTLY BEFORE, THE CONTRACTOR SHALL PREPARE A "PUNCH-LIST" OF CORRECTIONS UNSATISFACTORY, AND/OR INCOMPLETE WORK FOR THE ARCHITECT'S REVIEW.
- PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED TO PROTECT THE PUBLIC DURING PERIOD OF CONSTRUCTION.
- ALL WORK AS SHOWN BY THE NOTES ON THE DRAWINGS IS ASSUMED TO BE NEW WORK, UNLESS OTHERWISE INDICATED AS (E) OR EXISTING WORK TO REMAIN.

LEGEND

| | | | |
|--|--------------------------------|--|--------------------------|
| | INTERIOR ELEVATION | | PROJECT NORTH |
| | ELEVATION IDENTIFICATION | | DOOR SYMBOL AND NUMBER |
| | SHEET NUMBER | | WINDOW SYMBOL AND NUMBER |
| | DETAIL CALLOUT | | ROOM IDENTIFICATION |
| | DETAIL IDENTIFICATION | | ROOM NAME |
| | SHEET NUMBER | | ROOM NUMBER |
| | SECTION CALLOUT | | GRID LINE IDENTIFICATION |
| | DETAIL IDENTIFICATION | | PARTITION TYPE |
| | SHEET NUMBER | | DEMOLITION KEY NOTE |
| | ELEVATION MARKER | | |
| | REVISION | | |
| | CLOUD AROUND REVISION OPTIONAL | | |
| | REVISION NUMBER | | |

ABBREVIATIONS

| | | | |
|--------------|---------------------------|----------------|--------------------------------|
| A.F.F. | ABOVE FINISH FLOOR | O.D. | OUTSIDE DIAMETER |
| ACOUS. | ACOUSTICAL | o/ | OVER |
| A.C.T. | ACOUSTICAL CEILING TILE | O.F.D. | OVERFLOW DRAIN OWNER |
| ALUM. | ALUMINUM | O.F.C.I. | FURNISHED CONTRACTOR INSTALLED |
| & | AND | PT. | PAINT |
| ANOD. | ANODIZED | P.T.D. | PAPER TOWEL DISPENSER |
| APPROX. | APPROXIMATE | PERIM. | PERIMETER |
| @ | AT | PLAS. | PLASTIC |
| BLKG. | BLOCKING | PLYWD. | PLYWOOD |
| BD. | BOARD | # | POUND OR NO. |
| BOT. | BOTTOM | P.D.F. | POWDER DRIVEN FASTENER |
| BLDG. | BUILDING | P.T. | PRESSURE TREATED |
| C.L. | CENTERLINE, CHAINLINK | RAD. | RADIUS |
| C.W.S. | CIRCULAR WASTE CHUTE | R.W.L. | RAIN WATER LEADER |
| CLR. | CLEAR | RWD. | REDWOOD |
| CONC. | CONCRETE | R.C.P. | REFLECTED CEILING PLAN |
| CONN. | CONNECTION | REQ'D | REQUIRED |
| CONST./CONS. | CONSTRUCTION | R.D. | ROOF DRAIN |
| CONT. | CONTINUOUS | S.N.D. | SANITARY NAPKIN DISPENSER |
| DET. | DETAIL | DISPOSAL | DISPOSAL |
| DIA. | DIAMETER | SECT. | SECTION |
| Ø | DIAMETER OR ROUND | S.E.D. | SEE ELECTRICAL DRAWINGS |
| DIM. | DIMENSION | S.M.D. | SEE MECHANICAL DRAWINGS |
| DN. | DOWN | S.S.D. | SEE STRUCTURAL DRAWINGS |
| DWG. | DRAWING | SHT. | SHEET |
| EA. | EACH | S.M.S. | SHEET METAL SCREW |
| E.W. | EACH WAY | SIM. | SIMILAR |
| ELEC. | ELECTRICAL | S.D. | SOAP DISPENSER |
| ELEV. | ELEVATION | SQ. | SQUARE |
| ENCL. | ENCLOSED/ENCL OSURE | S. STL. / S.S. | STAINLESS STEEL |
| EQ. | EQUAL | STL. | STEEL |
| EQUIP. | EQUIPMENT | STG. | STORAGE |
| (E) | EXISTING | TEMP. | TEMPERED |
| EXP. | EXPANSION | T.P.D. | TOILET PAPER DISPENSER |
| F.O.C. | FACE OF CONCRETE | T.S.C.D. | TOILET SEAT COVER |
| F.O.W. | FACE OF WALL | TYP. | TYPICAL |
| F.O.C. | FIRE PROTECTION CABINET | U.O.N. | UNLESS OTHERWISE NOTED |
| FIX. | FIXTURE | V.I.F. | VERIFY IN FIELD |
| FT. | FOOT/FEET | W.R./WR | WASTE RECEPTACLE |
| G.S.M. | GALVANIZED SHEET METAL | W.O. | WHERE OCCURS |
| GA. | GAUGE | WIN. | WINDOW |
| GL. | GLAZING | W/ | WITH |
| G.B. | GRAB BAR | WO | WITHOUT |
| GND. | GROUND | WD. | WOOD |
| GYP. | GYPNUM | | |
| HDW | HARDWARE | | |
| HT. | HEIGHT | | |
| H.M. | HOLLOW METAL | | |
| HSS | HOLLOW STRUCTURAL SECTION | | |
| HR. | HOUR | | |
| I.D. | INSIDE DIAMETER | | |
| INSUL. | INSULATION | | |
| INT. | INTERIOR | | |
| LAM. | LAMINATE | | |
| MFR. | MANUFACTURER | | |
| MAX. | MAXIMUM | | |
| MECH. | MECHANICAL | | |
| MET./MTL. | METAL | | |
| MIN. | MINIMUM | | |
| MTD. | MOUNTED | | |
| (N) | NEW | | |
| NA | NOT AVAILABLE/APPLI CABLE | | |
| N.I.C. | NOT IN CONTRACT | | |
| N.T.S. | NOT TO SCALE | | |
| NO. | NUMBER | | |
| O.C. | ON CENTER | | |
| OPP. | OPPOSITE | | |

DBI ACCESSIBILITY CHECKLIST



Edgar Lopez - City Architect
 Julia Laue - Principal Architect / Division Manager
 30 Van Ness Avenue Suite 4100
 San Francisco, CA San Francisco, CA
 94102-6028 Fax (415)557-4701
 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

Water Mark Comment MARCH 23, 2018

| No. | Date | Revisions |
|-----|------|-----------|
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| | | |

Proj. Mgr. _____
 Proj. Arch. _____ AS
 Drawn _____ EM, TA, AS
 Checked by _____ W



Drawing Title _____

ADA COMPLIANCE CHECKLIST, COMPLIANCE MEASURES

Sheet No. _____

G 1.1

Scale: _____
 Project No. _____ Contract ID No.: 1000009419

NAVIGATION CENTERS

| Project Phase of Activity | Project Size | | | |
|---|---------------|---------------|---------------|---------------|
| | Large | Medium | Small | Exempt |
| ADA- GURU Consultations | ALWAYS | ALWAYS | ALWAYS | ALWAYS |
| Concept Consultation | YES | Preferred | Preferred | YES |
| Schematic Design Review | YES | Preferred | As-Needed | As-Needed |
| Design Development Plan Check 30% | YES | YES | PREFERRED | - |
| Sf-DBI DA-02 Checklist Review and Assistance | YES | YES | YES | As-Needed |
| Construction Document Plan Check 60-65% | YES | YES | As-Needed | - |
| Construction Document Plan Check 90-95% | YES | YES | YES | YES |
| DAC Approval Letter and BDC DAC form for file | - | - | - | YES |
| Final Back-Check, Stamp and Approve | YES | YES | YES | - |
| Pre-Construction Consultation | YES | As-Needed | - | - |
| Rough-In Inspections | YES | YES | YES | ✓ - |
| Multiple Interim Inspections | YES | As-Needed | - | - |
| Finish Inspection | YES | YES | YES | ✓ - |
| Playground Inspection | If In Scope | If In Scope | If In Scope | - |
| Signage Submittal Review | YES | YES | As-Needed | - |
| Signage Mock-up Inspection | YES | YES | As-Needed | ✓ - |
| Punch List Inspection Sign-off and/or TCO | YES | YES | YES | ✓ YES |
| Final Inspection and Job Card Sign-off | YES | YES | YES | ✓ YES |



Mark E. Farrell
 Mayor
 Mohammed Nuru
 Director

Julia Laue, AIA LEED AP
 Principal Architect
 And Manager

John Paul Scott AIA CASp
 Disability Access
 Coordinator

Public Works
 Building Design and
 Construction
 30 Van Ness Ave.,
 San Francisco, CA 94102
 Tel 415-557-4676
 JohnPaul.Scott@
 SFPDW.org

Sfpublicworks.org
 Facebook.com
 /sfpublicworks
 Twitter.com
 /sfpublicworks

DISABILITY ACCESS COMPLIANCE FOR CITY FUNDED PROJECTS

Applicant: Fill in project name and address and then scan this and DBI DA-2 forms into plans.

Navigation Center, 5th and Bryant Streets

680 Bryant Street, San Francisco, CA

Leave Area Below Blank – for DPW BDC Disability Access Coordinator (DAC) Staff Use

PLAN REVIEW STAGE: Public Works -Building Design and Construction Disability Access Coordinator has approved:

- Technical Infeasibility / Unreasonable Hardship Request
- Playground ADA Inventory Form
- Pre-application review / site permit
- Access Exempt work per specific exceptions in Building Code – 11B-203 Exempt Work, Exclusions from definition of Alteration, or non-seismic structural or landscape work. Add DA-02 Checklist and Technical Infeasibility Forms

FINAL CONSTRUCTION PLANS FOR PERMIT APPLICATIONS

INSPECTION STAGE: The following inspections are required, if selected:

Call Public Works Building Design and Construction DC Disability Access Coordinator to schedule- 415-557-4676

ROUGH FRAMING, AFTER PLUMBING & ELECTRICAL ROUGH-IN IS COMPLETE, PRIOR TO CLOSE-UP

- Mock-up inspection of _____
- Signage, including proofs and color samples prior to fabrication
- Door closer pressure and timing
- Power door signage and door operator testing per BHMA A156.19
- Play Area equipment, surfacing and Path of Travel
- Off-site curb ramps, blue zone parking spaces and passenger loading zones

INSPECTION AT 95% TO 99% COMPLETE, BUT PRIOR TO OR AS NEEDED FOR T.C. O.

FINAL SIGN-OFF OF PROJECT, DPW BDC DAC SIGNING OF SFDBI JOB CARD

John Paul Scott, AIA, CASp, DPW BDC Disability Access Coordinator Date

D.A. CHECKLIST (p. 2 of 2): The address of the project is : 650 Bryant Street, San Francisco

Check all applicable boxes and specify where on the drawings the details are shown:

| | Existing Fully Complying | Will be Up-graded to full Compliance | Equivalent facilitation will provide full access | Compliance is Technically Infeasible | Approved in compliance with immediately preceding code | Not required by Code (and/or none existing) | Non-compliant request URH Must be ratified by AAC | Location of detail(s) include detail no. & drawing sheet (do not leave this part blank). Also clarification comments can be written here. |
|---|--------------------------|--------------------------------------|--|--------------------------------------|--|---|---|---|
| A. One accessible entrance including: approach walk, vertical access, platform (landings), door / gate and hardware for door/gate | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| B. An accessible route to the area of remodel including: Parking/access aisles and curb ramps Curb ramps and walks Corridors, hallways, floors Ramps elevators, lifts | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Local curb ramps only - no on-site parking Exterior ramp A1.2 |
| C. At least one accessible restroom for each sex or a single unisex restroom serving the area of remodel. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Provided in commercial modular trailers by others A1.2 |
| D. Accessible public pay phone. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E. Accessible drinking fountains. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F. Additional accessible elements such as parking, stairways, storage, alarms and signage. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| See the requirements for additional forms listed below | 1. | 2. | 3. | 4. | 5. | 6. | 7. | |

Note: upgrades below are listed in priority based on CBC-11B-202.4, exception B

1. No additional forms required
2. No additional forms required
3. Fill out Request for Approval of Equivalent Facilitation form for each item checked and attach to plan.
4. Fill out Request for Approval of Technical Infeasibility form for each item checked and attach to plans.
5. Provide details from a set of City approved reference drawings, provide its permit application number here: _____ and list reference drawing number on plans.
6. No additional forms required
7. Fill out Request for an Unreasonable Hardship form for each item checked and attach to plan. All UHR must be ratified by the Access Appeals Commission (see UHR form for details)

Technically Infeasible. An alteration of a building or a facility, that has little likelihood of being accomplished because the existing structural conditions require the removal or alteration of a load-bearing member that is an essential part of the structural frame, or because other existing physical or site constraints prohibit modification or addition of elements, spaces or features that are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.

Unreasonable Hardship. When the enforcing agency finds that compliance with the building standard would make the specific work of the project affected by the building standard infeasible, based on an overall evaluation of the following factors:

1. The cost of providing access.
2. The cost of all construction contemplated.
3. The impact of proposed improvements on financial feasibility of the project.
4. The nature of the accessibility which would be gained or lost.
5. The nature of the use of the facility under construction and its availability to persons with disabilities

The details of any Technical Infeasibility or Unreasonable Hardship shall be recorded and entered into the files of the Department. All Unreasonable Hardships shall be ratified by the AAC.



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager

30 Van Ness Avenue Suite 4100
San Francisco, CA 94102-6028 Fax (415)557-4701 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

MARCH 23, 2018

| No. | Date | Revisions |
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Proj. Mgr. _____
Proj. Arch. _____ AS
Drawn by _____ EM, TA, AS
Checked by _____ W

Drawing Title _____

EGRESS DIAGRAM

Sheet No. _____

G 2.1

Scale: As indicated
Project No. _____ Contract ID No.: 1000009419

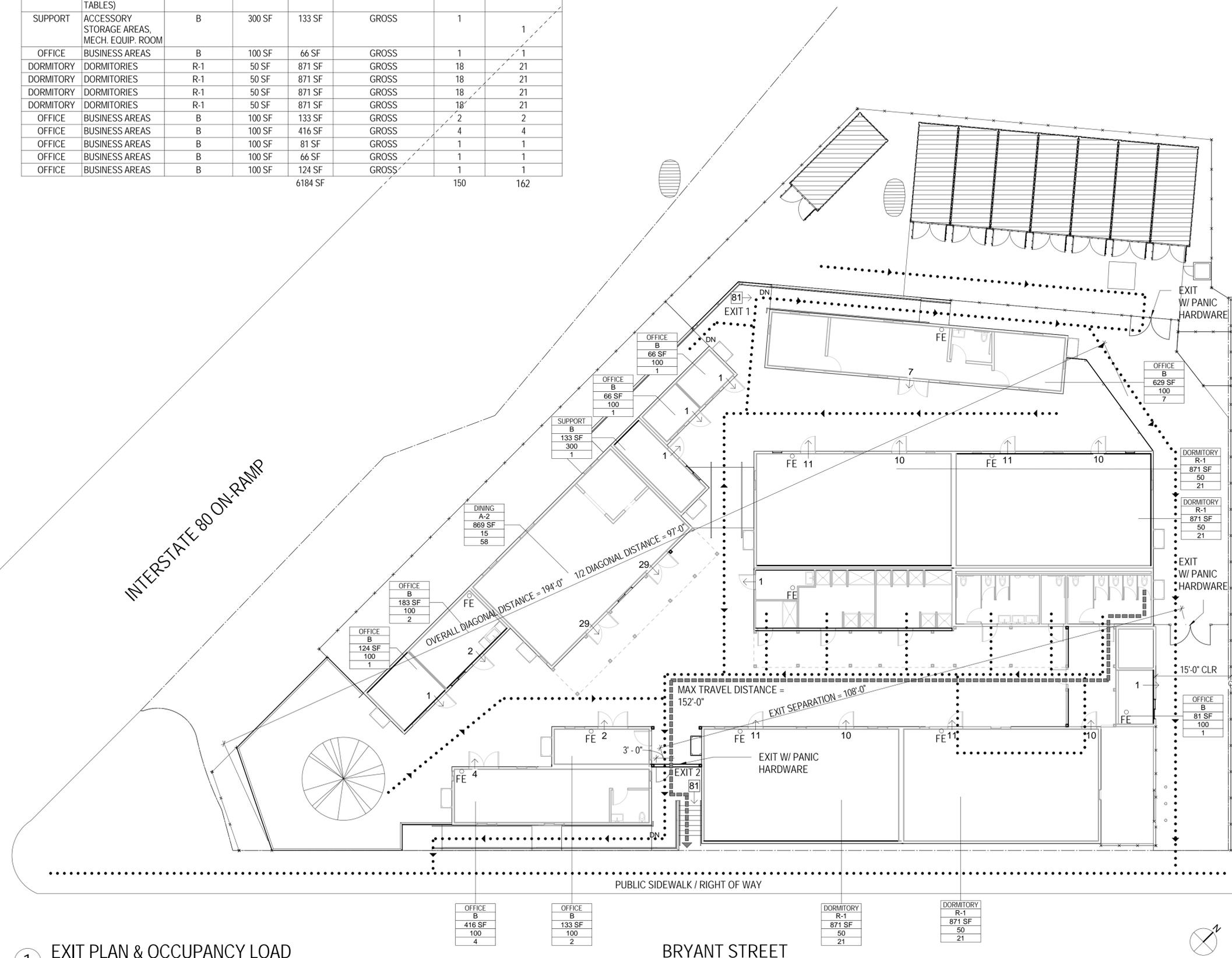
SHEET NOTES

- ALL SLEEPING ROOMS SHALL HAVE AT LEAST (1) WINDOW COMPLYING W/ CBC 1030 REQUIREMENTS FOR ESCAPE / RESCUE.
- ALL SPACES ARE ACCESSIBLE. ACCESSIBLE ROUTE SHOWN ON PLAN INDICATES PATH OF TRAVEL FROM PUBLIC RIGHT WAY, EXITS AND TO RESTROOMS.
- PROVIDE PORTABLE FIRE EXTINGUISHER AS SHOWN AND PER FIRE MARSHALL: (1) 2A:10 BC @ PANTRY, (1) 4A:20 BC @ MECH ROOM. 2A: 10 BC LOCATED W/ 75 MAX TRAVEL OF ALL OCCUPIED AREAS. EACH DORM ROOM TO BE EQUIPPED W/ (1) PORTABLE FIRE EXTINGUISHER.

LEGEND

- ## → # OF OCCUPANTS/ EXIT DIRECTION
- > EXIT ACCESS TRAVEL DISTANCE
- ...> ACCESSIBLE PATH OF TRAVEL
- OLF OCCUPANT LOAD FACTOR
- OCCUPANT LOAD INFORMATION
- ROOM TYPE
OCCUPANCY
AREA
OLF
OCC. LOAD
- FE PORTABLE FIRE EXTINGUISHER

| NAME | FUNCTION OF SPACE | OCCUPANCY | OCCUPANCY LOAD FACTOR | AREA | OCCUPANCY AREA TYPE | OL (BY AREA) | OL (BY BED COUNT) |
|-----------|---|-----------|-----------------------|---------|---------------------|--------------|-------------------|
| OFFICE | BUSINESS AREAS | B | 100 SF | 629 SF | GROSS | 7 | 7 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 183 SF | GROSS | 2 | 2 |
| DINING | ASSEMBLY - UNCONCENTRATED (CHAIRS AND TABLES) | A-2 | 15 SF | 869 SF | NET | 58 | 58 |
| SUPPORT | ACCESSORY STORAGE AREAS, MECH. EQUIP. ROOM | B | 300 SF | 133 SF | GROSS | 1 | 1 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 66 SF | GROSS | 1 | 1 |
| DORMITORY | DORMITORIES | R-1 | 50 SF | 871 SF | GROSS | 18 | 21 |
| DORMITORY | DORMITORIES | R-1 | 50 SF | 871 SF | GROSS | 18 | 21 |
| DORMITORY | DORMITORIES | R-1 | 50 SF | 871 SF | GROSS | 18 | 21 |
| DORMITORY | DORMITORIES | R-1 | 50 SF | 871 SF | GROSS | 18 | 21 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 133 SF | GROSS | 2 | 2 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 416 SF | GROSS | 4 | 4 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 81 SF | GROSS | 1 | 1 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 66 SF | GROSS | 1 | 1 |
| OFFICE | BUSINESS AREAS | B | 100 SF | 124 SF | GROSS | 1 | 1 |
| | | | | 6184 SF | | 150 | 162 |



1 EXIT PLAN & OCCUPANCY LOAD
3/32" = 1'-0"

C:\Users\jlaue\Documents\5th & Bryant_R17_emanin.rvt 3/23/2018 12:33:34 PM

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 94102-6028 (415)557-4700

Project _____

Project Name _____

Enter address here _____

Consultant _____

Issue Date _____

| No. | Date | Revisions |
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Proj. Mgr. _____
 Proj. Arch. _____
 Drawn _____ CCS
 Checked by _____ WJ

Drawing Title _____

TOILET ROOM DOOR SIGNAGE
 10-SIGN-REST-ADA-04

Sheet No. _____

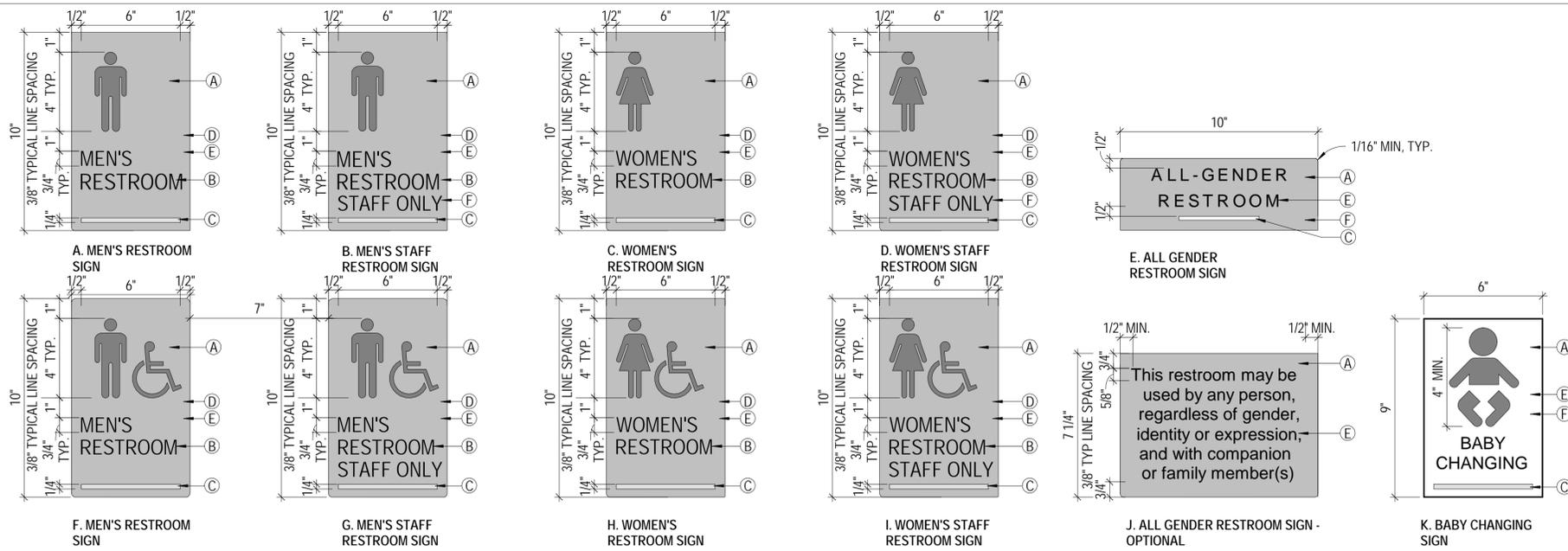
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Scale: As indicated

Project No. _____ Project Number _____

ACCESSIBLE RESTROOM SIGN NOTES:

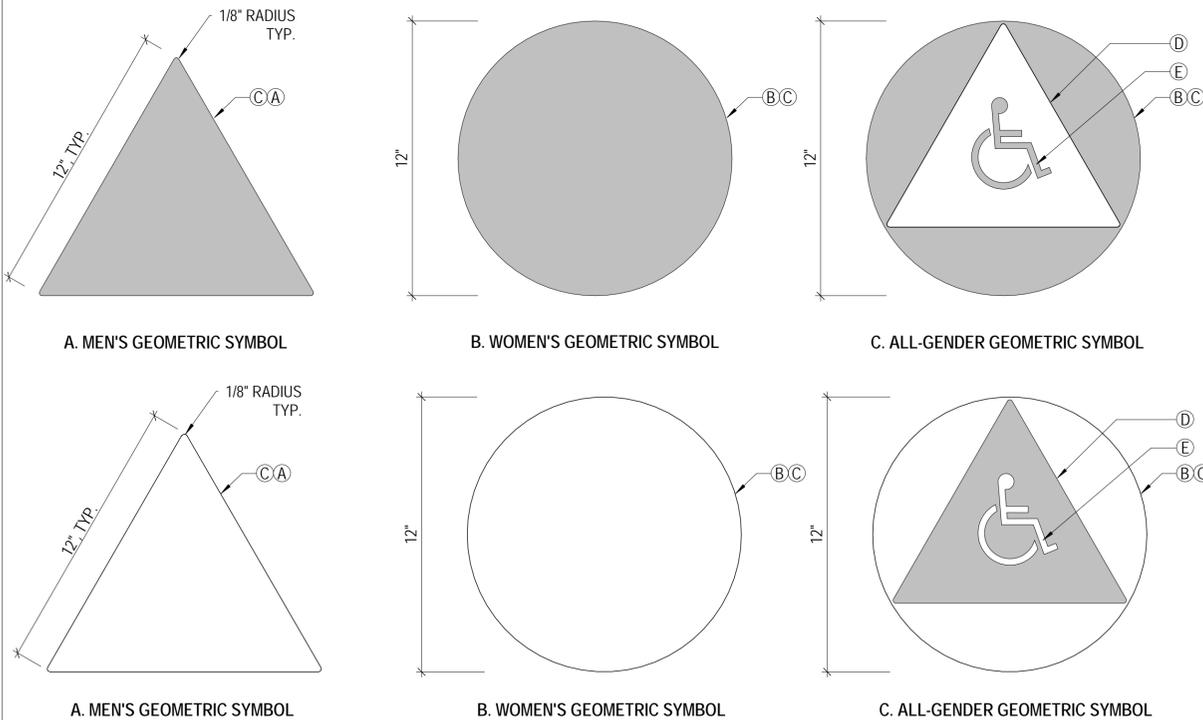
- A. LOCATE SIGN AT TOILET ENTRANCES, BATHING FACILITIES, AND WHERE SHOWN IN THE DRAWINGS OR DETAILS WHERE THE ENTRANCE IS A DOOR, IT SHALL BE MOUNTED ON THE DOOR, CENTERED HORIZONTALLY AND 60" AFF TO CENTERLINE OF THE SIGN.
- B. CHARACTERS
- CHARACTER SHALL BE RAISED 1/32" MIN ABOVE THE BACKGROUND. SIGN PANEL COLOR SHALL CONTRAST WITH ITS BACKGROUND, LIGHT ON DARK OR DARK ON LIGHT, NOMINALLY 70% LRV.
 - CHARACTERS SHALL BE UPPER CASE, SAN SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. CHARACTER PROPORTIONS, CHARACTER HEIGHT, STROKE, THICKNESS, CHARACTER SPACING AND LINE SPACING SHALL COMPLY WITH CBC 11B-703.2 RAISED CHARACTERS REQUIREMENTS.
 - TEXT FORMAT SHALL BE HORIZONTAL.
- C. BRAILLE
- BRAILLE SHALL BE CONTRACTED GRADE 2 BRAILLE TRANSLATION OF THE TEXT AND SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN HORIZONTAL FORMAT. CENTER JUSTIFY BRAILLE ON SIGN, UON.
 - BRAILLE DOTS SHALL BE DOMED OR ROUNDED. SPACING SHALL CONFORM TO CBC 11B-703.3.
- D. MATERIALS
- SOLID CORE MELAMINE, 1/4" THICK EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN OR CHAMFERED AT 1/8" MAX. TRIANGLE SYMBOL VERTICES SHALL BE RADIUS BETWEEN 1/8" MIN AND 1/4" MAX.
- E. FINISHES
- NON-GLARE, MATTE OR EGGSHELL, UON
 - THE COLOR OF THE SIGN SHALL CONTRAST W/ THE BACKGROUND LIGHT ON DARK OR DARK ON LIGHT, NOMINALLY 70% LIGHT "REFLECTANCE" VALUE (LRV)
- F. MOUNTING
- INTERIOR MOUNTED SIGNS SHALL BE ADHERED TO DOOR OR WALL WITH NON-STAINING SILICONE SEALANT AND FOAM TAPE WITHOUT MECHANICAL FASTENERS, UON. EXTERIOR MOUNTED SIGNS SHALL BE MECHANICALLY FASTENED AND WITH SILICONE ADHESIVE. FASTENERS SHALL BE STAINLESS STEEL AND TAMPER PROOF.



10 RESTROOM SIGNAGE

3" = 1'-0"

DAC APPROVED R03 2018.02.01



SIGN NOTES FOR LIGHT OR DARK COLORED DOORS:

- TRIANGULAR SIGN MATERIAL SHALL BE MAX 1/4" THICK WITH POLISHED AND EASED EDGES. ADHERE SIGN TO DOOR WITH NON-STAINING SILICONE SEALANT AND FOAM TAPE WITHOUT ANY MECHANICAL FASTENERS, UON. SEE SIGNAGE SCHEDULE FOR MATERIALS.
- CIRCULAR SIGN MATERIAL SHALL BE MAX 1/4" THICK WITH POLISHED AND EASED EDGES. ADHERE SIGN TO DOOR WITH NON-STAINING SILICONE SEALANT AND FOAM TAPE WITHOUT ANY MECHANICAL FASTENERS, UON. SEE SIGNAGE SCHEDULE FOR MATERIALS.
- UON, BACKGROUND COLOR SIGN SHALL BE LIGHT ON DARK OR DARK ON LIGHT BACKGROUND COLOR WITH ADJACENT DOOR & SIGN SURFACES NORMALLY 70% LRV. ALL SIGNAGE FINISHES SHALL BE NON-GLARE MATTE OR EGGSHELL.
- ALL - GENDER SIGN SHALL BE A 1/4" THICK TRIANGULAR SHEET (A) SECURED ON TOP OF CIRCULAR SHEET (B) WITH DOUBLE-SIDED SHEET TAPE. UON, COLOR SHALL BE LIGHT ON DARK OR DARK ON LIGHT AND THE CIRCLE SHALL CONTRAST PER NOTE C.
- PROVIDE ISA SYMBOL ON SIGNS AT ACCESSIBLE ALL-GENDER TOILET ROOMS.

12 RESTROOM DOOR GEOMETRIC SYMBOL

3" = 1'-0"

DAC APPROVED R03 2018.02.01

6 INTERNATIONAL SYMBOL OF ACCESSIBILITY

6" = 1'-0"

DAC APPROVED R03 2018.02.01

3 TOILET AND BATHING ROOM ENTRANCE SIGNS

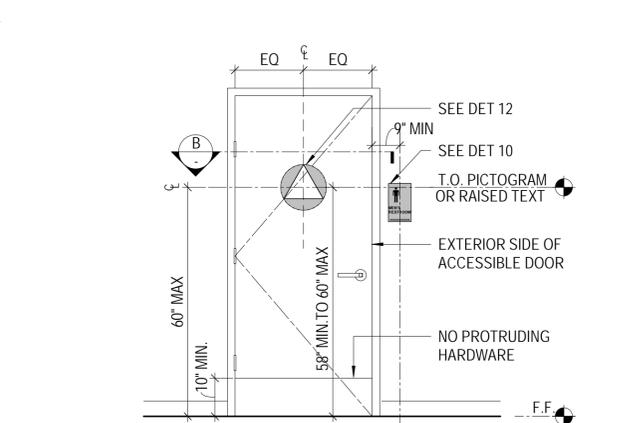
1/2" = 1'-0"

DAC APPROVED R03 2018.02.01

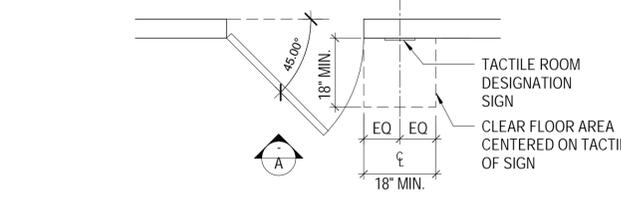
INTERNATIONAL SYMBOL OF ACCESSIBILITY - ISA SYMBOL

ISA NOTES

- STANDARD COLORS ARE WHITE FIGURE ON BLUE BACKGROUND APPROXIMATING FEDERAL STANDARD 595C - F3 15000. NON-TACTILE UON.
- COLOR EXCEPTIONS:
- ON TOILET AND BATHING ROOM DESIGNATION SIGNS OR WHEN APPROVED BY THE ENFORCEMENT AGENCY.
 - FUNCTION BUTTON ON DESIGNATED ORIENTED ELEVATOR SYSTEM - BACKGROUND SHALL BE BLACK.
 - THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE OTHER COLORS PROVIDED THE SYMBOL CONTRAST IS LIGHT ON DARK OR DARK ON LIGHT
 - ON THE ACCESSIBILITY FUNCTION BUTTON ON HALL CALL CONSOLES IN A DESTINATION-ORIENTED ELEVATOR SYSTEM THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A WHITE SYMBOL ON A BLACK BACKGROUND.
- EXCEPTIONS FOR SIZE ON EVACUATION MAPS; POWERED DOOR ACTIVATOR SWITCHES; ASSEMBLY SEATING.
 - STYLE OF FIGURE SHALL COMPLY WITH THAT IN BLDG CODE AND FACE TO RIGHT. A BORDER IS PERMITTED INSIDE OR OUTSIDE MIN REQUIRED ISA DIM.
 - SIGNS ON NON-GLASS SURFACES SHALL BE BAKED ENAMEL ON METAL AND MECHANICALLY FASTENED.
 - SIGNS ON GLASS SHALL BE OPAQUE VINYL AND READABLE FROM BOTH SIDES OR HAVE WHITE OR BLACK BACKING W/O EXPOSED AIR BUBBLES.



A. DOOR ELEVATION N.T.S.



B. CLEAR FLOOR AREA REQUIREMENTS - PLAN - N.T.S.

SIGN MOUNTING LOCATIONS (IN ORDER OF PREFERENCE):

- WALL MOUNT ADJACENT TO LATCH SIDE OF DOOR.
- INACTIVE LEAF OF A DOUBLE DOOR.
- THE RIGHT DOOR OF A DOUBLE DOOR WITH 2 ACTIVE LEAFS.
- WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR OR RIGHT SIDE OF A DOUBLE DOOR, SIGN SHALL BE LOCATED ON THE NEAREST ADJACENT WALL - COORDINATE LOCATION WITH CITY REPRESENTATIVE & ARCHITECT.

NOT FOR CONSTRUCTION



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 Julia Laue - Principal Architect / Division Manager
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 94102-6028 (415)557-4700

Project _____

Project Name _____

Enter address here _____

Consultant _____

Issue Date _____

| No. | Date | Revisions |
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Proj. Mgr. _____

Proj. Arch. _____

Drawn _____

Checked by _____

Author _____

Checker _____

Drawing Title _____

DOOR EXIT SIGNAGE
 10-SIGN-DOOR-ADA-02

Sheet No. _____

G 3.12

Project No. _____

Scale: As indicated

Project Number _____

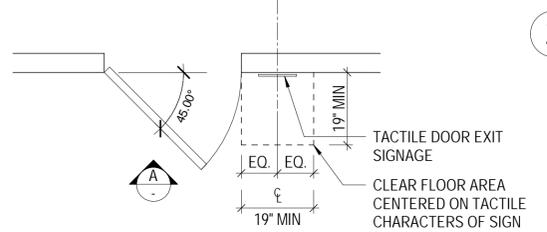
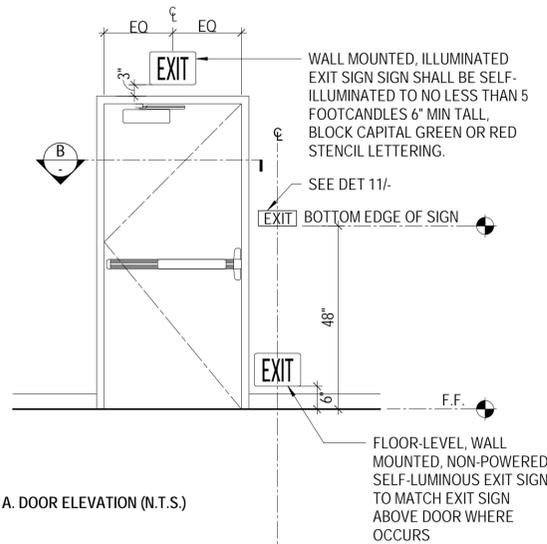


TACTILE EXIT SIGNAGE NOTES:

- A. LOCATE TACTILE EXIT SIGNS WHERE SHOWN IN THE DRAWINGS.
- B. CHARACTERS
 - I. CHARACTER SHALL BE RAISED 1/32" MIN ABOVE THE BACKGROUND. SIGN PANEL COLOR, AS NOTED IN THE SIGNAGE SCHEDULE, SHALL CONTRAST WITH ITS BACKGROUND, LIGHT ON DARK OR DARK ON LIGHT, NOMINALLY 70% LRV. CHARACTERS SHALL BE UPPER CASE, SAN SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
 - II. CHARACTER PROPORTIONS, CHARACTER HEIGHT, STROKE, THICKNESS, CHARACTER SPACING AND LINE SPACING SHALL COMPLY WITH CBC 11B-703.2 RAISED CHARACTERS REQUIREMENTS.
 - III. TEXT FORMAT SHALL BE HORIZONTAL. EACH LINE OF TEXT SHALL BE CENTERED ON THE SIGN UON.
 - IV. BRAILLE
 - I. BRAILLE SHALL BE CONTRACTED GRADE 2 BEADED BRAILLE TRANSLATION OF THE TEXT SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN HORIZONTAL FORMAT. CENTER JUSTIFY BRAILLE ON SIGN, UON.
 - II. BRAILLE DOTS SHALL BE DOMED OR ROUNDED. SPACING SHALL CONFORM TO CBC 11B-703.3.
- D. MATERIALS
 - I. SOLID CORE MELAMINE, 1/4" THICK MAX EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN OR CHAMFERED AT 1/8" MAX TRIANGLE SYMBOL VERTICES SHALL BE RADIUSSED BETWEEN 1/8" MIN AND 1/4" MAX.
- E. FINISHES
 - I. NON-GLARE, MATTE OR EGGSHELL, UON.
- F. MOUNTING
 - I. ALL INTERIOR MOUNTED SIGN SHALL BE ADHERED TO DOOR OR WALL WITH NON-STAINING SILICONE SEALANT AND FOAM TAPE WITHOUT MECHANICAL FASTENERS, UON.
 - II. EXTERIOR MOUNTED SIGNS SHALL BE MECHANICALLY FASTENED AND WITH SILICONE ADHESIVE. FASTENERS SHALL BE STAINLESS STEEL AND TAMPER PROOF.

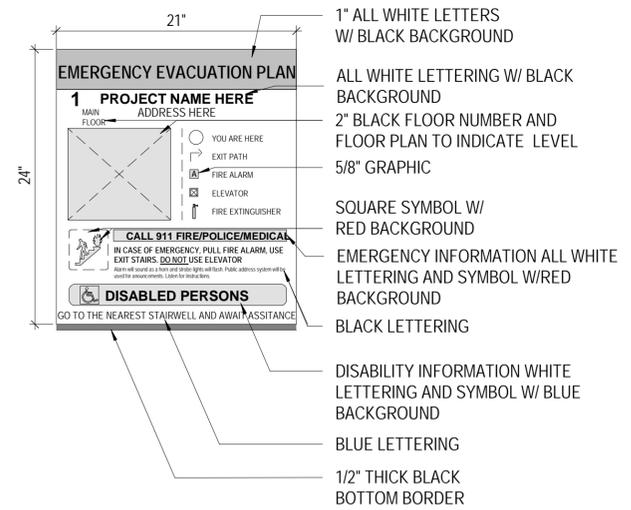
MOUNTING REQUIREMENTS:

1. WALL MOUNT ADJACENT TO LATCH SIDE OF SINGLE DOOR
2. INACTIVE LEAF OF A DOUBLE DOOR WITH A SINGLE ACTIVE LEAF
3. THE RIGHT SIDE OF A DOUBLE DOOR WITH 2 ACTIVE LEAFS
4. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR RIGHT SIDE OF A DOUBLE DOOR, SIGN SHALL BE LOCATED ON THE NEAREST ADJACENT WALL - COORDINATE LOCATION WITH CITY REPRESENTATIVE



2 TACTILE EXIT SIGNS

3' = 1'-0" DAC APPROVED R03 2018.02.01

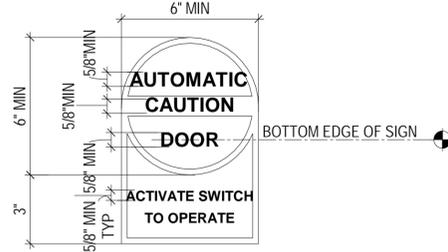


EVACUATION SIGN NOTES:

1. ALL LETTERING SHALL BE 5/8"MIN UON
2. ALL LETTERING AND SYMBOLS SHALL BE RAISED 1/16" WITH THE INFORMATION IN CONTRACTED GRADE 2 BRAILLE BELOW UON.
3. THE 'ALARM' SYMBOL SHALL BE COLORED RED.
4. THE 'ELEVATOR' AND 'EXIT' SYMBOLS SHALL BE COLORED BLACK
5. THE 'YOU ARE HERE' SYMBOL SHALL BE COLORED ORANGE
6. THE 'EXIT PATH' SYMBOL SHALL BE COLORED GREEN.
7. THE ABOVE COLORED SYMBOLS SHALL BE INCLUDED ON THE DIAGRAMATIC PLAN FOR EACH FLOOR, SEE SHEET _____
8. FINISHES ON ALL SIGNS TO BE MATTE EGGSHELL OR OTHER NON-GLARE FINISH.
9. ALL EVAC SIGNS SHALL COMPLY W/ SFFD ADMIN BULLETIN 2.11 AND BE SUBMITTED BY A CONTRACTOR AS A SEPARATE PERMIT.

5 EXIT SIGNAGE

1/2" = 1'-0" DAC APPROVED R03 2018.02.01



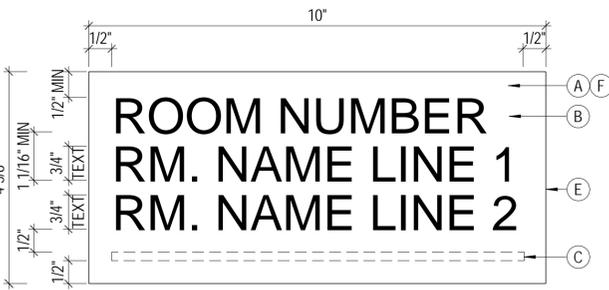
1. UNLESS OTHERWISE NOTED, BACKGROUND COLOR SHALL BE BLACK. TEXT AND GRAPHICS YELLOW.
2. UNLESS OTHERWISE NOTED, BACKGROUND COLOR SHALL BE YELLOW, TEXT AND GRAPHICS BLACK.
3. IF 'KNOWING ACT' OR 'ACTIVE SWITCH TO OPERATE' SWITCH IS USED TO INITIATE DOOR OPERATION, BACKGROUND COLOR SHALL BE BLUE. TEXT AND GRAPHICS SHOULD BE WHITE AND THE LETTERS SHALL BE 5/8" HIGH MIN.
4. VINYL STICKER SHOULD BE MOUNTED ON BOTH SIDES OF DOOR 50" +/-12" FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN.

6 POWERED DOOR SIGN

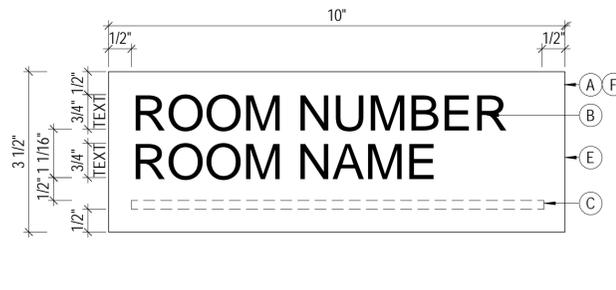
3' = 1'-0" DAC APPROVED R03 2018.02.01

STAIRWAY ID NOTES:

1. STAIRWAY IDENTIFICATION SIGNS ARE REQUIRED IN STAIRWAYS CONNECTING MORE THAN 3 STORIES
2. THE SIGN SHALL BE PROVIDED ON EACH STAIRWAY LANDING
3. SEE SIGN SCHEDULE FOR STAIR NUMBERING AND DESIGNATION OF TERMINUS OR ROOF ACCESS
4. PROVIDE A 5 POINT STAR FOR EGRESS FLOOR NUMBER. DESIGNATE MEZZANINES AS THE LETTER 'M' AND DESIGNATE BASEMENTS AS THE LETTER 'B'
5. SIGN PANEL IS 3/16" THICK, SEE SIGN SCHEDULE FOR SIGN MATERIAL AND COLOR
6. SIGN SHALL BE PHOTO LUMINESCENT PER 1025.4.



A. TACTILE DOOR ID SIGNAGE



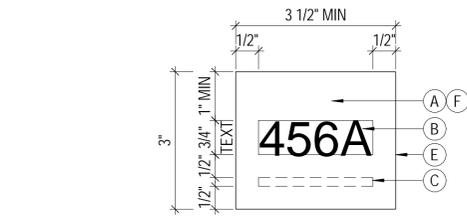
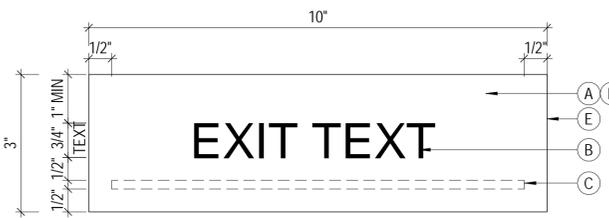
B. SINGLE LINE ROOM ID SIGN

10 3 - LINE SIGN

6' = 1'-0" DAC APPROVED R03 2018.02.01

7 2 - LINE SIGN

6' = 1'-0" DAC APPROVED R03 2018.02.01



NOTES:

1. SEE DET 7/- FOR 2 - LINE SIGNS
2. SEE DET 10/- FOR 3 - LINE SIGNS
3. SEE DET 2/- PER ADDITIONAL INFORMATION

NOTES:

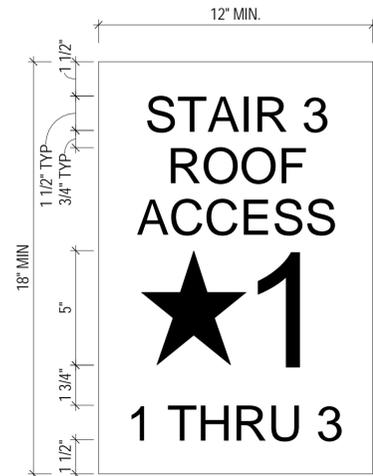
1. SEE DET 7/- FOR 2 - LINE SIGNS
2. SEE DET 10/- FOR 3-LINE SIGNS

11 TACTILE SIGN

6' = 1'-0" DAC APPROVED R03 2018.02.01

8 ROOM ID SIGN

6' = 1'-0" DAC APPROVED R03 2018.02.01



12 STAIRWAY IDENTIFICATION SIGN

3' = 1'-0" DAC APPROVED R03 2018.02.01



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 Julia Laue - Principal Architect / Division Manager
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Project _____

Project Name _____

Enter address here _____

Consultant _____

Issue Date _____

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 Drawn _____ CS
 Checked by _____ Checker

Drawing Title _____

TYPICAL ACCESSIBLE DOORS AND GATES

Sheet No. _____

G 3.21

Project No. _____

Project Number _____

NOT FOR CONSTRUCTION

TYPICAL DOOR ACCESSIBILITY REQUIREMENTS:

ALL ENTRANCE DOORS, DOORS ON ACCESSIBLE ROUTES, EXIT DOORS AND GATES SHALL COMPLY WITH TITLE 24 CALIFORNIA BUILDING CODE (CBC) AND AS SUPERSEDED HEREIN, UNLESS OTHERWISE MODIFIED IN THE CONSTRUCTION DOCUMENTS.

A. ACCESSIBLE DOORS AND GATES:

- CLEARANCES.** DOORS AND GATES SHALL BE CAPABLE OF AN OPENING SWEEP OF 90 DEGREES MINIMUM. THE CLEAR OPENING AT DOORS AND GATES SHALL BE 32" MIN FROM FACE OF DOOR JAMB STOP TO FACE OF DOOR WHEN OPENED TO 90 DEGREE POSITION, UON.
- THRESHOLDS.** THE TOP OF THRESHOLDS SHALL NOT EXCEED 1/2" ABOVE THE FINISH FLOOR, COMPRESSED FLOOR CARPET FINISH OR CONCRETE. CHANGES IN LEVEL OF 1/4" HIGH MAX SHALL BE PERMITTED TO BE VERTICAL. SLOPES IN LEVEL BETWEEN 1/4" MIN TO 1/2" MAX SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. THE SLOPE OF TOP SURFACE OF THRESHOLDS SHALL NOT EXCEED 1:20.
- LEVEL MANEUVERING CLEARANCES.** FLOOR AREAS ON EITHER SIDE OF DOOR SHALL NOT EXCEED 1.8 PERCENT SLOPE IN ANY DIRECTION.
- PUSH-SIDE KICK PLATE AREAS**
 - SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE.
 - ON GLASS DOORS, THE KICK PLATE AREA SHALL BE A MATERIAL OTHER THAN GLASS. PROTRUDING HINGE AND LOCKING PADS ARE TO BE PERMITTED IN THE KICK-PLATE AREA.
 - SURFACE MOUNTED BOLTS OR PROTRUDING RIMS OF CYLINDER LOCKS ARE NOT PERMITTED IN THIS AREA. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THIS SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AT THE OTHER, AND BE FREE OF SHARP OR ABRASIVE EDGES.
 - CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
- FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATES:**
 - INTERIOR DOORS AND GATES: 5 POUNDS MAX
 - SLIDING OR FOLDING DOORS AND PEDESTRIAN-GATES: 5LBS MAX.
 - REQUIRED FIRE DOORS: THE MIN OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15LBS MAX.
 - EXTERIOR HINGED DOORS: 5LBS MAX.
 - AT POWERED DOORS, MANUAL DOOR LEAFS IN THE SAME LOCATION: 8 1/2LBS MAX.
- CLOSING SPEED.** DOORS WITH AUTOMATIC CLOSERS SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION TO 12 DEGREES FROM LATCH IS 5 SECONDS MIN SPRING HINGES SHALL BE ADJUSTED SO THAT FROM 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS.

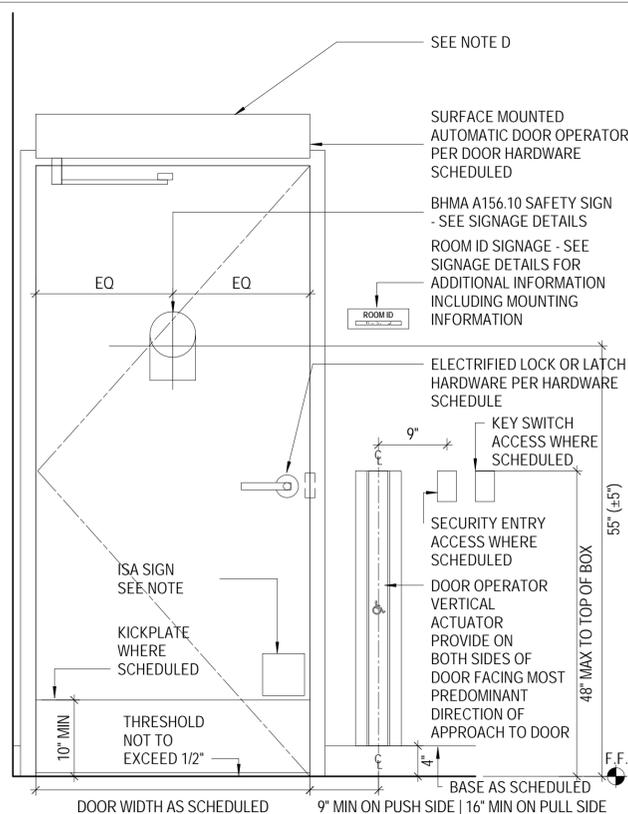
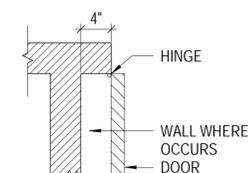
B. RATED DOOR ASSEMBLIES. SHALL BE POSITIVE LATCHING AND INCLUDE A CLOSER. RATED ASSEMBLIES SHALL COMPLY WITH CBC CHAPTER 10 REQUIREMENTS AND THOSE OF THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED DOOR ASSEMBLIES.

C. SAFETY GLAZING SAFETY. GLAZING AT DOORS SHALL COMPLY WITH CBC CHAPTER 24. SECTION 2406 AND THE DRAWINGS.

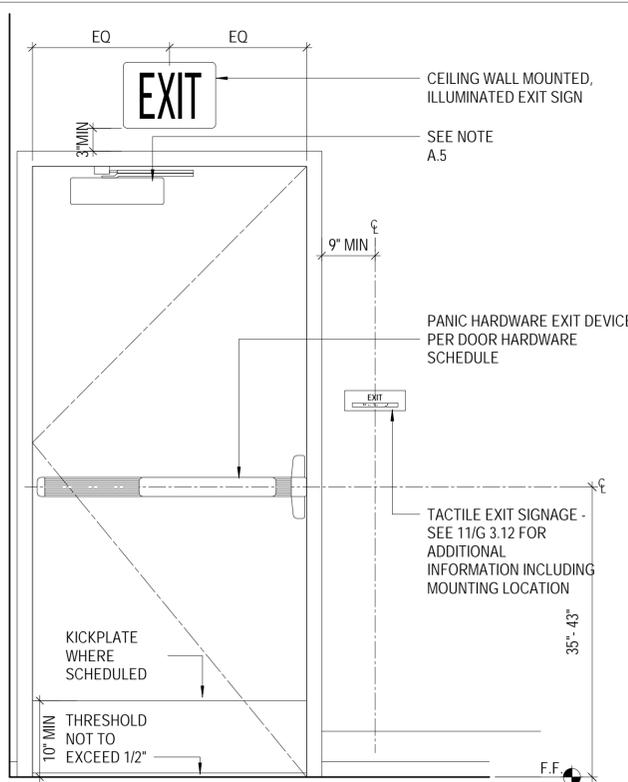
D. POWERED DOORS.

- POWERED DOORS SHALL COMPLY WITH EXCEPTIONS IN CBC 11B-404.2.9
- POWERED DOORS ARE REQUIRED FOR PRIMARY PUBLIC AND EMPLOYEE ENTRANCES TO BUILDINGS AND FACILITIES, UON. WHERE A PAIR OF DOORS OCCURS IN THAT ASSEMBLY, BOTH LEAFS SHALL BE POWERED.
- POWERED DOORS ARE PERMITTED IN LIEU OF OPENING FORCES NOTED IN DOOR AND GATE REQUIREMENTS NOTE A.5.
- SAN FRANCISCO BUILDING DEPARTMENT INFORMATIONAL BULLETINS PERMISSIBLE USE OF POWERED DOORS IN ALTERATIONS IS ACCEPTED BY THESE REQUIREMENTS.
- VERTICAL DOOR ACTUATORS ARE REQUIRED, AND ARE REQUIRED TO BE DIRECTLY WIRED TO DOOR OPERATOR UON. WHERE SENSING DEVICES ARE UTILIZED, A LOW PUSH PLATE SHALL BE PROVIDED UON.
- POWERED DOORS SHALL HAVE KEYED OR TOGGLE SWITCH DISCONNECT IN THE NEAR VICINITY OF THE POWERED DOOR.
- POWERED DOOR HARDWARE, ACTUATORS AND DISCONNECT IS PERMITTED TO BE INTEGRATED WITH SECURITY SYSTEMS. OBTAIN AN OPERATIONAL NARRATIVE FROM THE CITY'S REPRESENTATIVE.
- CBC 11B-404.2.9 EXCEPTIONS C, D AND E CONTAIN SIGNAGE REQUIREMENTS THAT ARE NOT COMPLETELY IDENTIFIED IN DETAILS SHOWN IN THE TYPICAL ACCESSIBLE DOOR AND GATE SHEET.

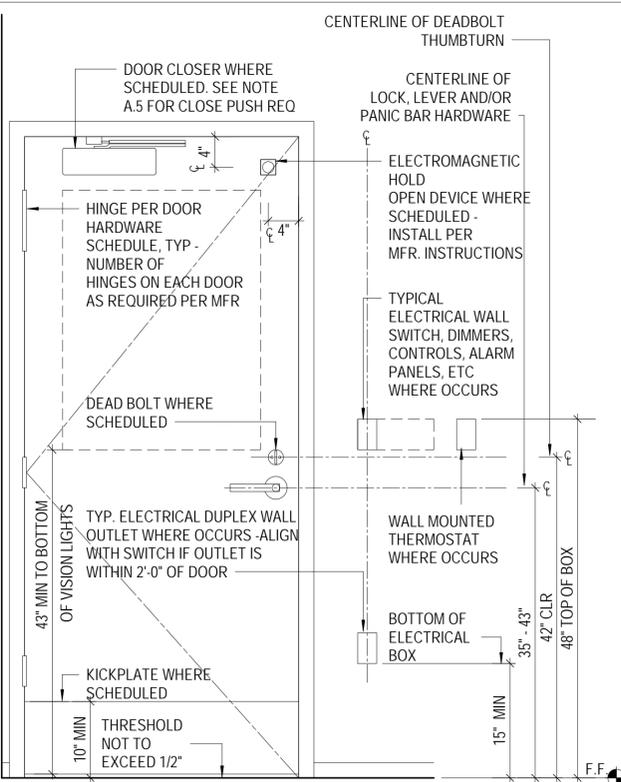
E. TYPICAL JAMB CONDITION



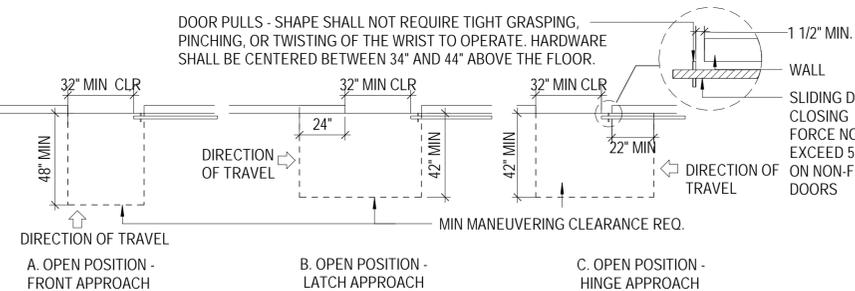
10 ENTRY DOOR W/ POWERED OPERATOR
 1" = 1'-0" DAC APPROVED R03 2018.02.01



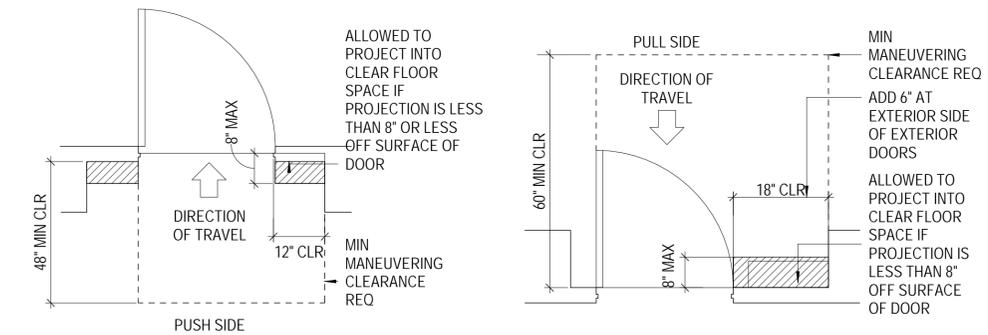
7 EXIT DOOR ELEVATION
 1" = 1'-0" DAC APPROVED R03 2018.02.01



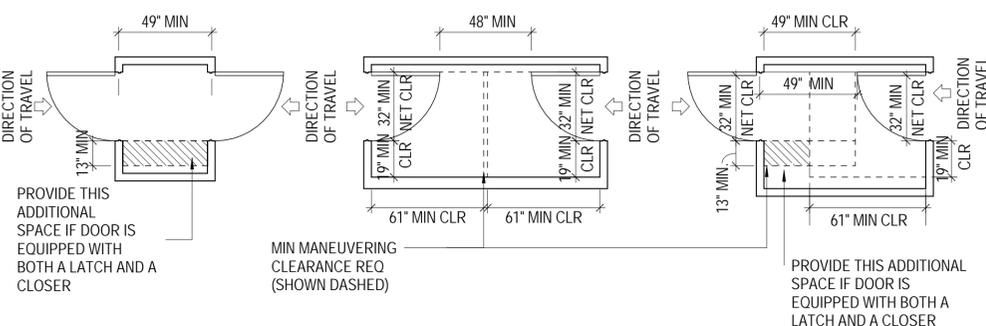
4 HARDWARE & ELEC WALL MOUNTING HTS.
 1" = 1'-0" DAC APPROVED R03 2018.02.01



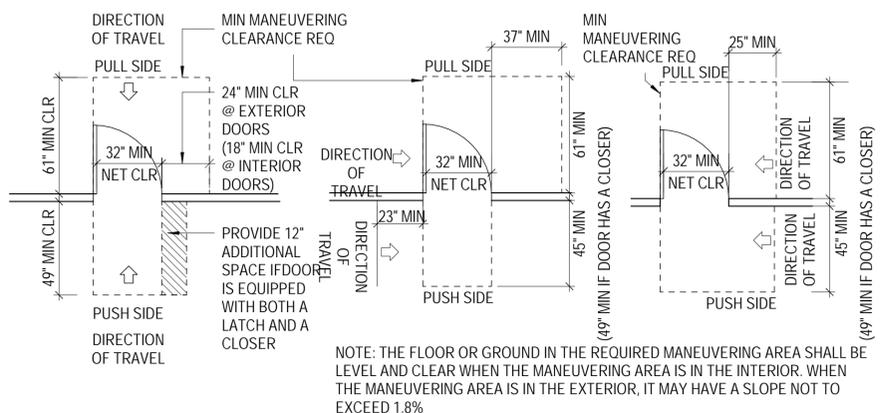
11 MANEUVERING CLEARANCE AT SLIDING & POCKET DOORS
 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



8 MANEUVERING CLEARANCE AT RECESSED DOOR
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



12 MANEUVERING CLEARANCE AT DOORS IN SERIES
 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



9 REQUIRED MANEUVERING CLEARANCES AT DOORS
 1/4" = 1'-0" DAC APPROVED R03 2018.02.01

3 TYPICAL DOOR REQUIREMENTS
 1" = 1'-0" DAC APPROVED R03 2018.02.01

NOTE: THE FLOOR OR GROUND IN THE REQUIRED MANEUVERING AREA SHALL BE LEVEL AND CLEAR WHEN THE MANEUVERING AREA IS IN THE INTERIOR. WHEN THE MANEUVERING AREA IS IN THE EXTERIOR, IT MAY HAVE A SLOPE NOT TO EXCEED 1.8%

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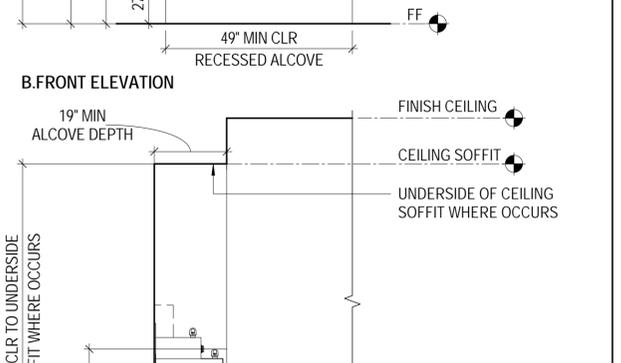
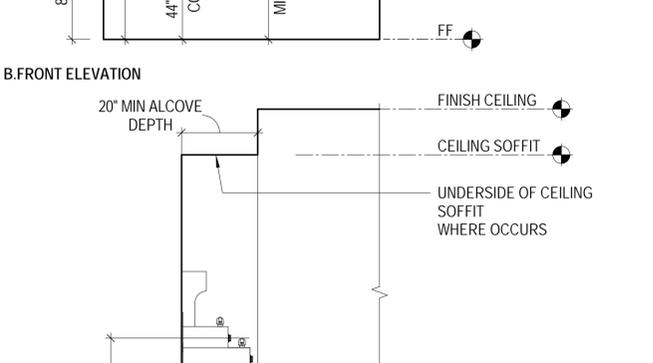
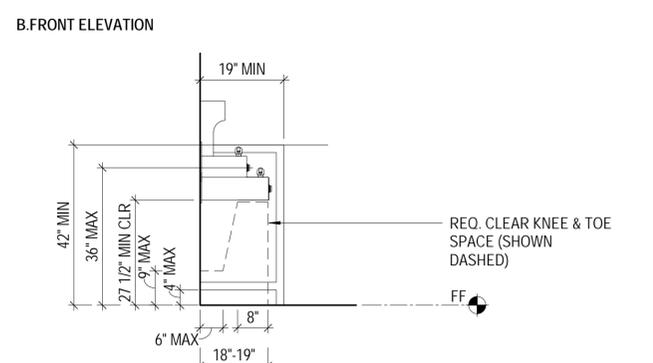
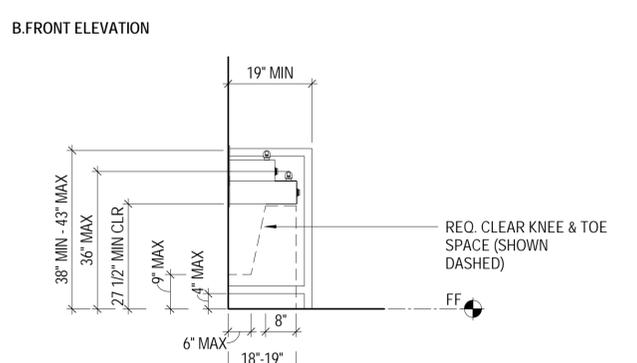
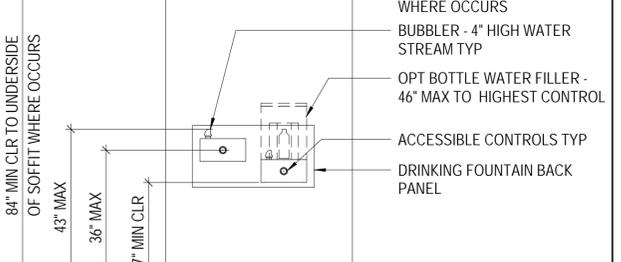
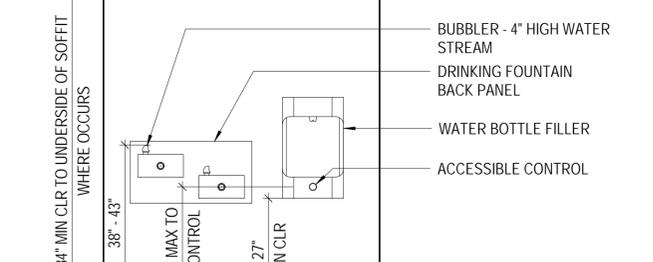
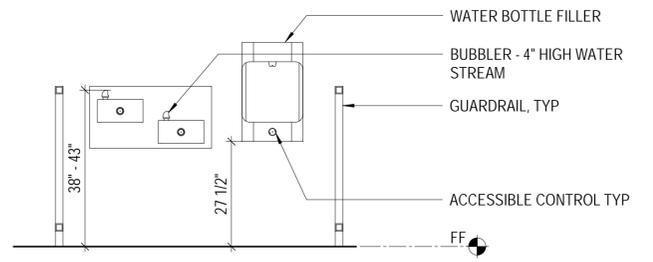
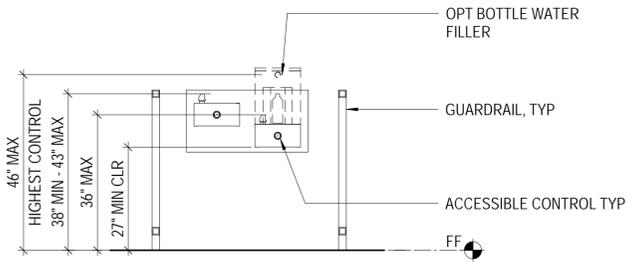
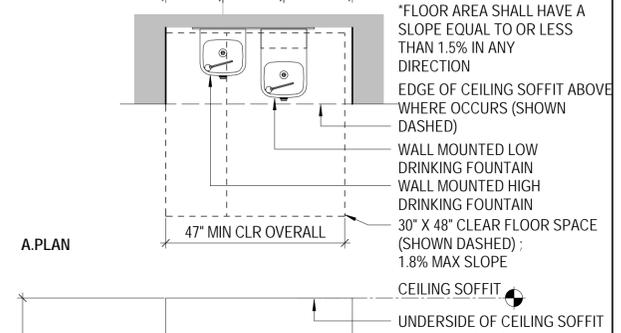
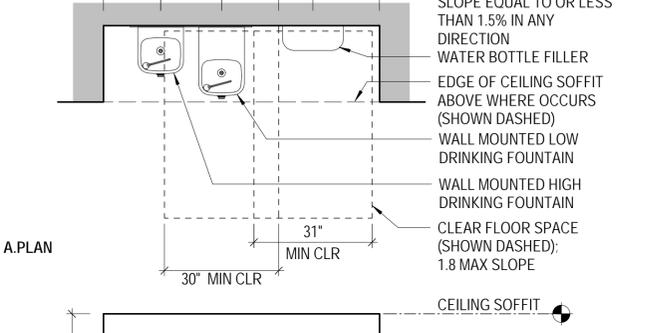
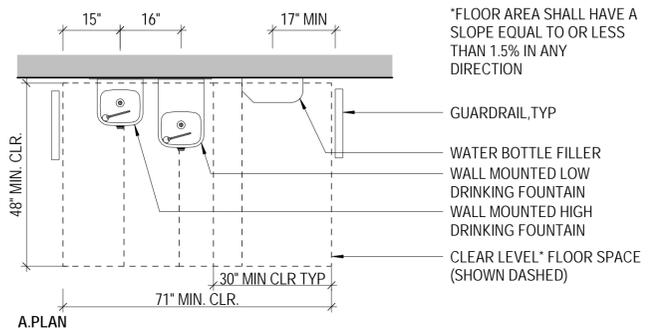
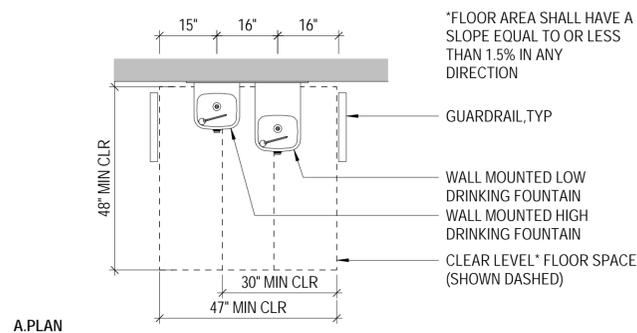
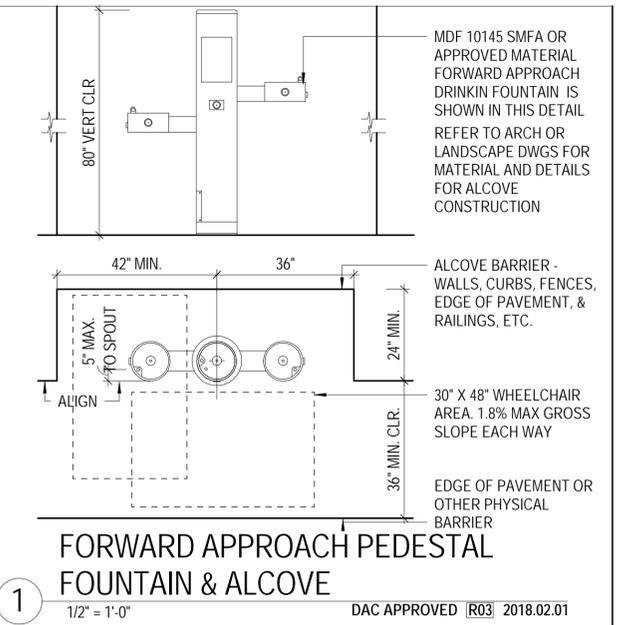
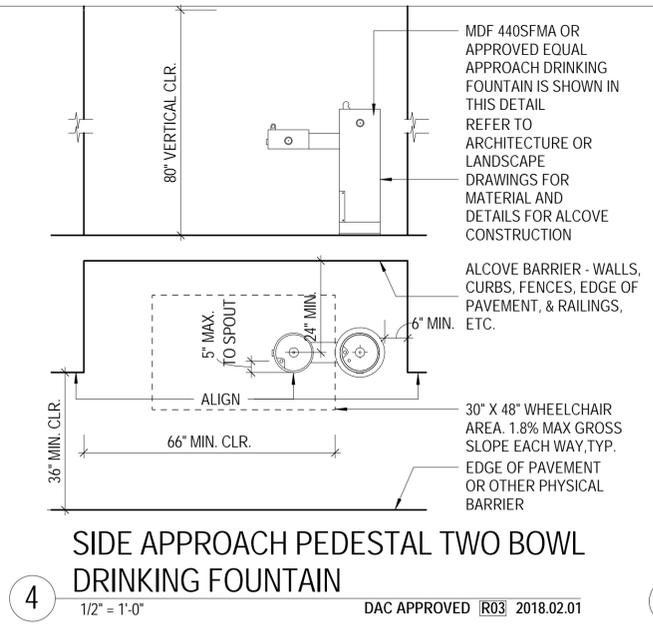
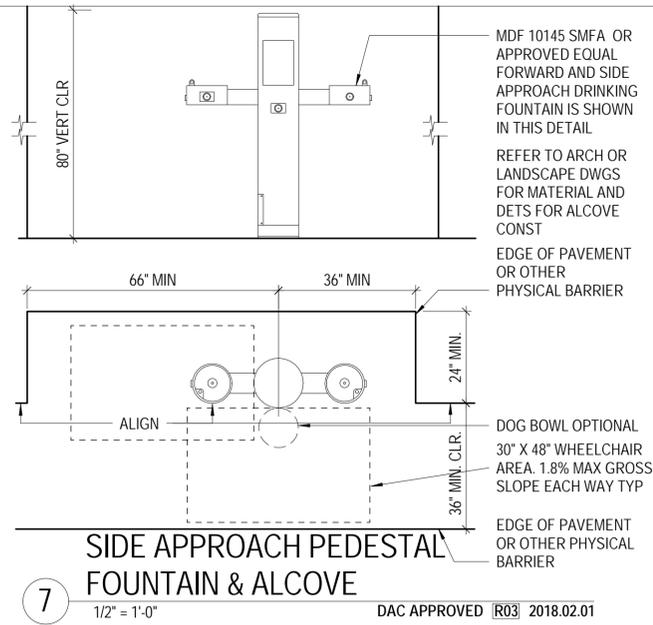
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ACCESSIBLE DRINKING FOUNTAIN & WALL & FLOOR ACCESSORIES

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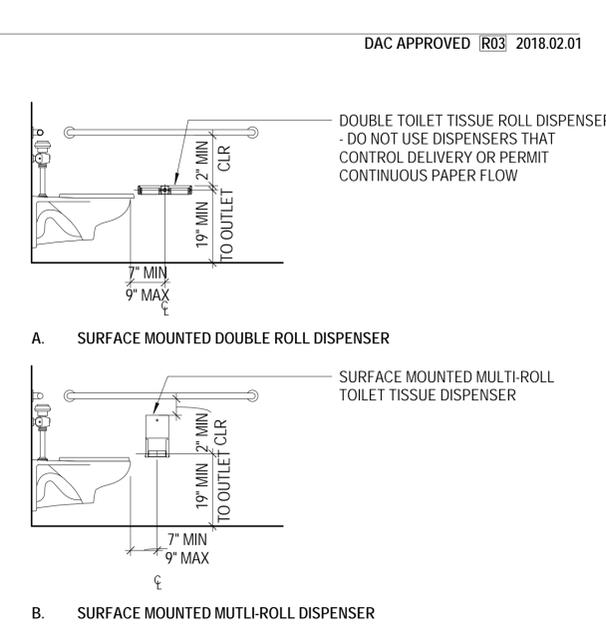
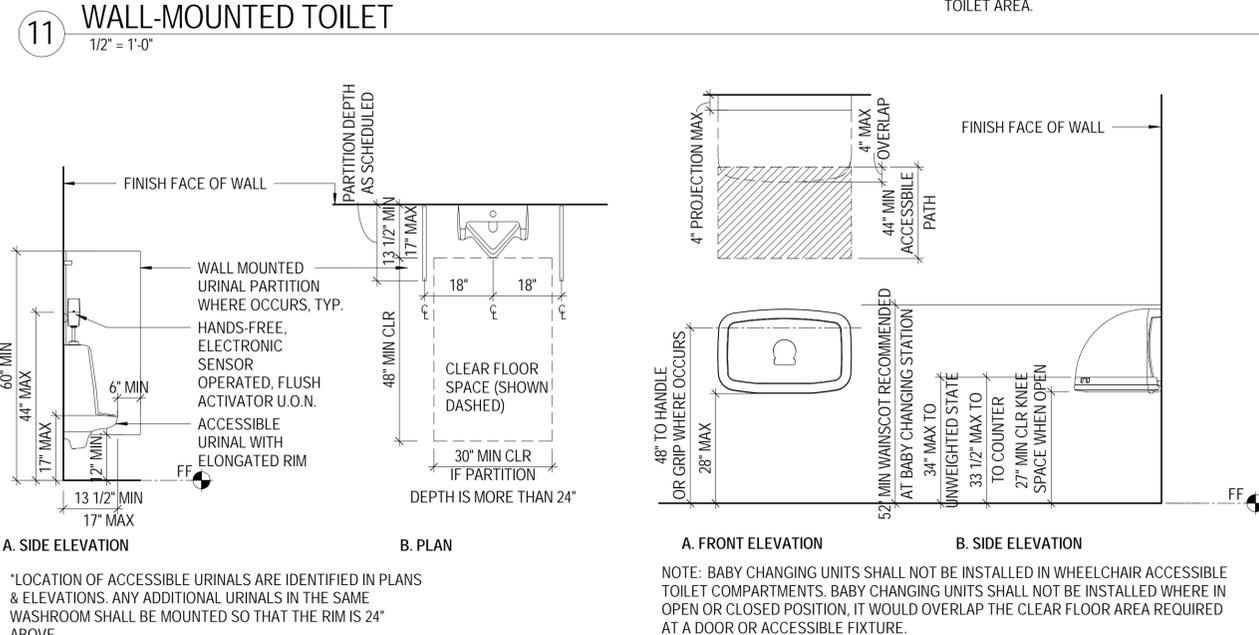
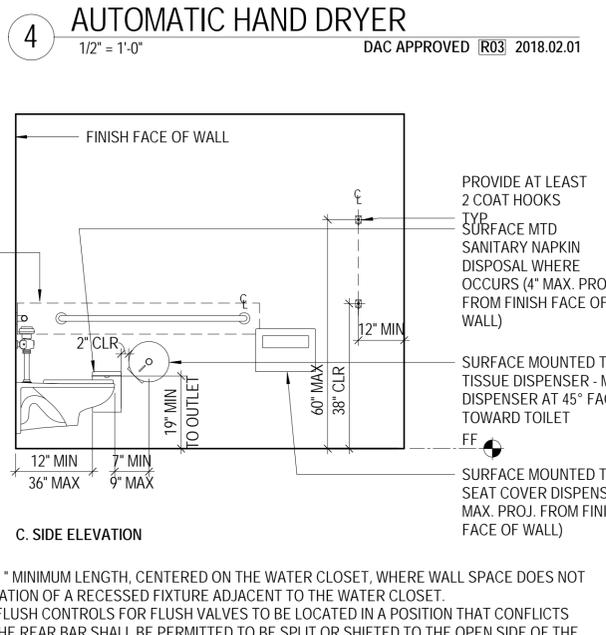
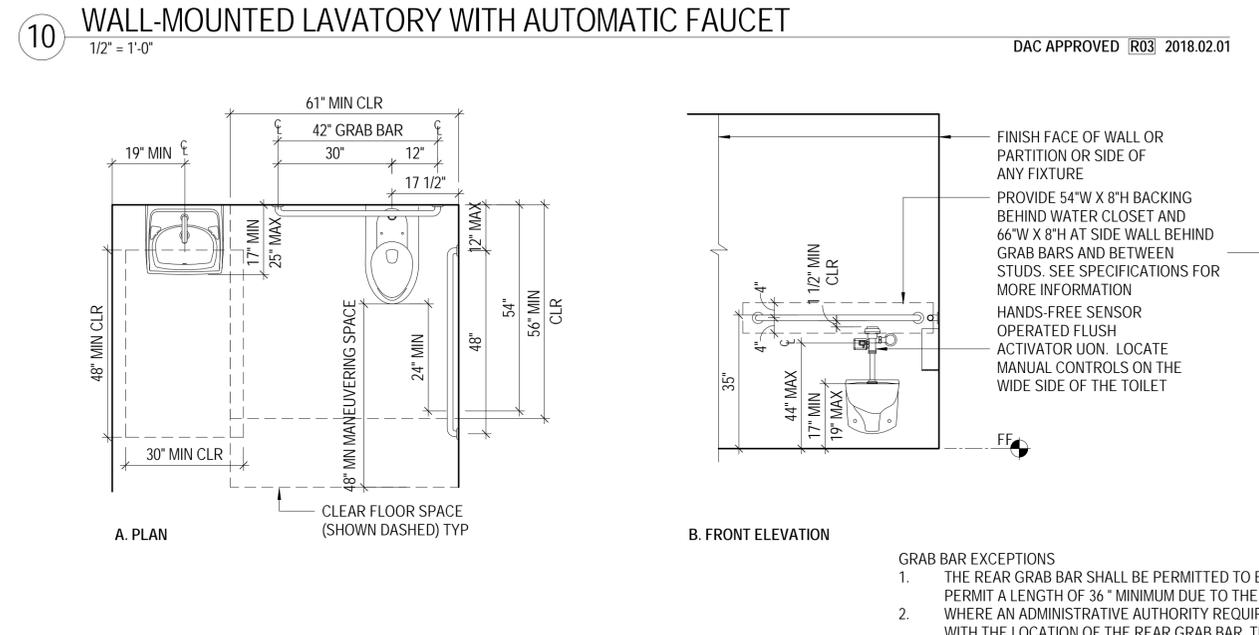
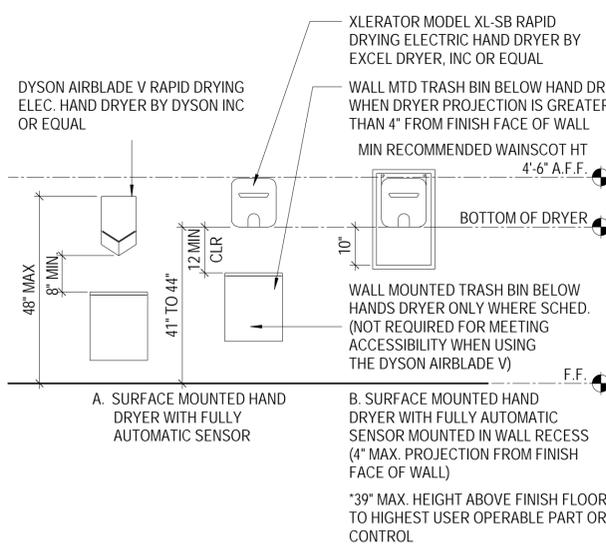
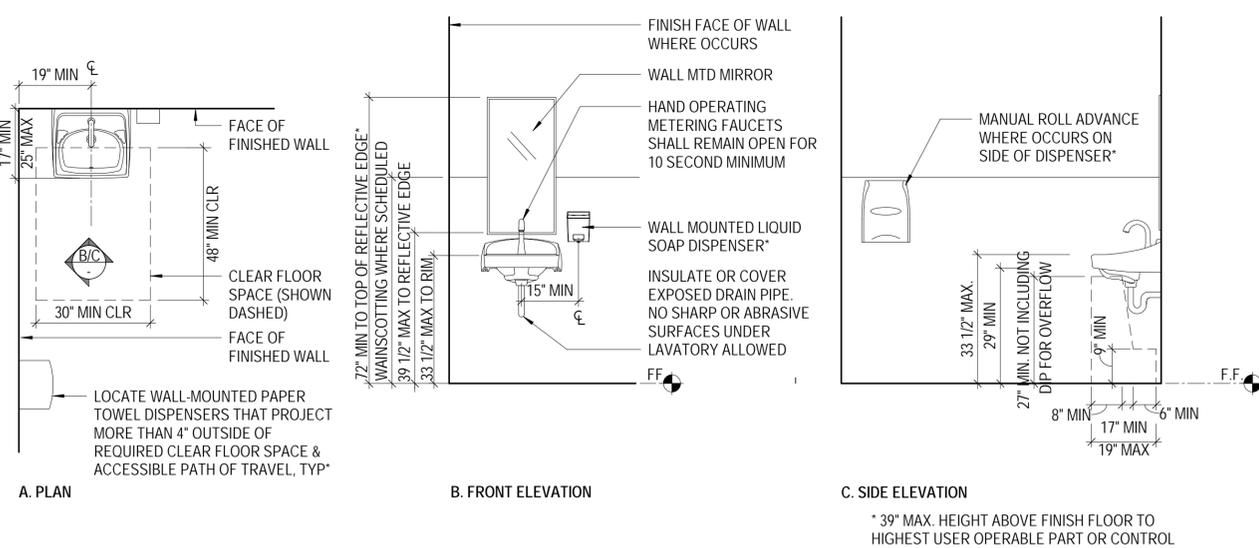
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GENERAL TOILET ROOM ACCESSIBILITY NOTES:

- THE MINIMUM, MAXIMUM, AND ABSOLUTE DIMENSIONS SHOWN IN THESE STANDARD DETAILS VARY FROM THOSE INTITLE 24 ADMINISTRATIVE CODE AND/OR AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). DIMENSIONS THAT ARE NOT STATED AS "MAXIMUM OR "MAX." OR "MINIMUM" OR "MIN" ARE ABSOLUTE (1101B.4). ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.
- TOILET ROOMS SHALL CONTAIN A 60" DIAMETER MANEUVERING SPACE OR EQUIVALENT T-SHAPED SPACE. THE MANEUVERING SPACES ARE PERMITTED TO UNDERLAP SOME OBJECTS. TOE & KNEE SPACE AT ONLY ONE END OF EITHER THE BASE OR ONE AREA OF T-SHAPED SPACE. A DOOR IS PERMITTED TO UNDERLAP A TOILET ROOM'S REQUIRED MANEUVERING SPACE BY 12" MAX.
- TOILET ROOMS ARE TO CONTAIN A CLEAR 44" MIN PATH TO WHEELCHAIR AND ACCESSIBLE TOILET COMPARTMENTS, EXCEPT FOR INTERVENING DOOR WIDTHS.
- TRASH CAN IS NOT PERMITTED TO OCCUPY THE CLEAR FLOOR SPACE OF ANY FIXTURE OR DOOR.
- DOORS ARE NOT PERMITTED TO ENCR OACH ON THE REQUIRED CLEAR FLOOR SPACE AT ANY ACCESSIBLE FIXTURE. EXCEPTION: WHERE THE TOILET OR BATHING ROOM IS FOR INDIVIDUAL USE AND A 30" BY 48" FLOOR SPACE IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOORS.
- THE CLEAR FLOOR AREAS OF ANY FIXTURE, ACCESSIBLE ROUTE AND MANEUVERING SPACE ARE PERMITTED TO OVERLAP.
- MOUNTING HEIGHT OF FIXTURES SHALL TAKE INTO ACCOUNT FLOOR SLOPE TO DRAIN.
- FLOOR SLOPE TO DRAIN SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
- FIXTURE AND TOILET COMPARTMENT CLEARANCES ARE TO FACE OF FINISH.
- NO ACCESSORIES ARE TO BE MOUNTED BEHIND GRAB BARS UNLESS THEY ARE COMPLETELY FLUSH TO ADJACENT SURFACE. NO ACCESSORIES SHALL BE MOUNTED ABOVE GRAB BARS.
- ACCESSIBLE ACCESSORIES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND WITHIN ACCESSIBLE REACH RANGE. PROVIDE CLEAR FLOOR SPACE THAT ALLOWS A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR. ALL USER OPERABLE PARTS & CONTROLS SHALL BE LOCATED WITHIN 40" MAX FROM THE FINISH FLOOR. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE.
- DOOR TO SINGLE USER ACCESSIBLE RESTROOM SHALL BE PROVIDED WITH AN ACCESSIBLE PRIVACY LOCK.
- THE CLEAR FLOOR AREA ON BOTH SIDES OF DOOR OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT SHALL BE CLEAR OF ANY OBSTRUCTIONS & CLEAR OF THE ARC OF THE SWING OF ANY OTHER DOOR.
- VERIFY WALL STRUCTURE, BACKING & MOUNTING REQUIREMENTS IN FIELD - EACH GRAB BAR SHALL SUPPORT A MINIMUM OF FORCE OF 250 LBS. APPLIED IN ANY DIRECTION TO ANY POINT OF THE GRAB BAR.
- SIMILAR NOTES APPLY TO ACCESSIBLE BATHING FACILITIES.



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ACCESSIBLE TOILET ROOM STANDARD DETAILS

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Scale: 1/2" = 1'-0"

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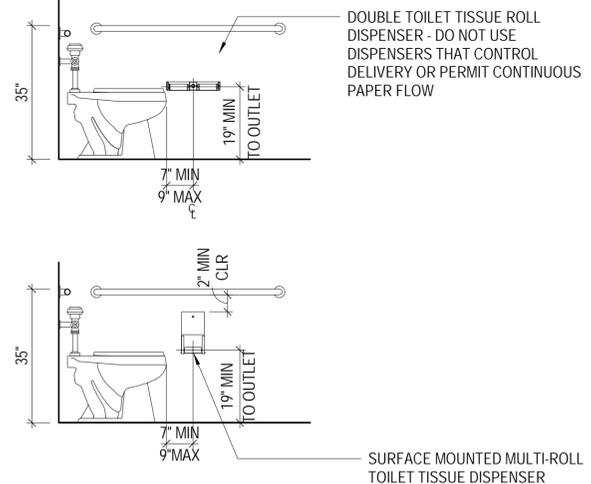
ACCESSIBLE TOILET ROOM ALTERNATE DETAILS

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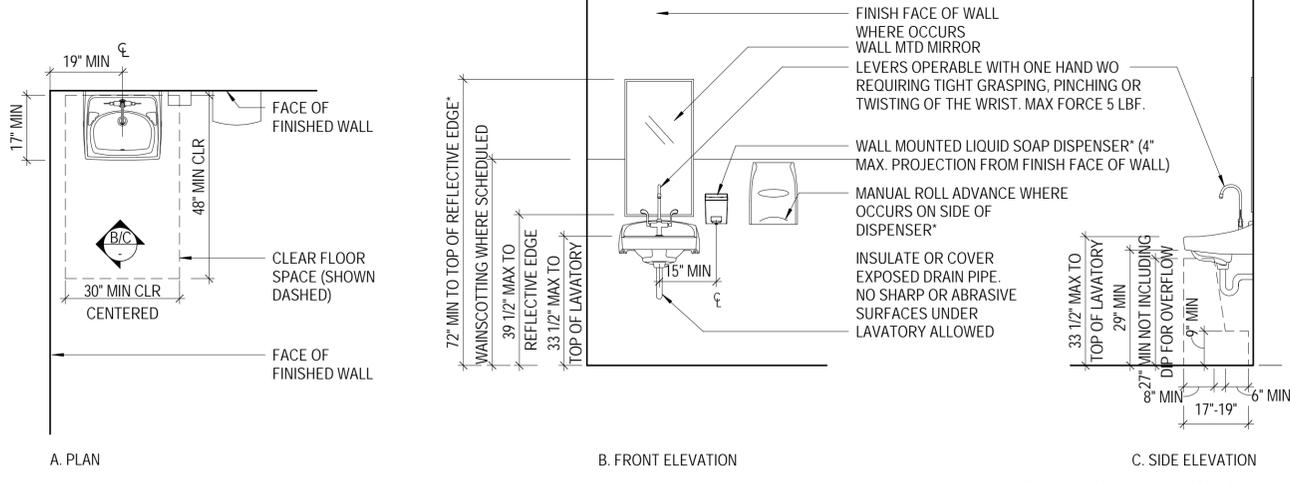
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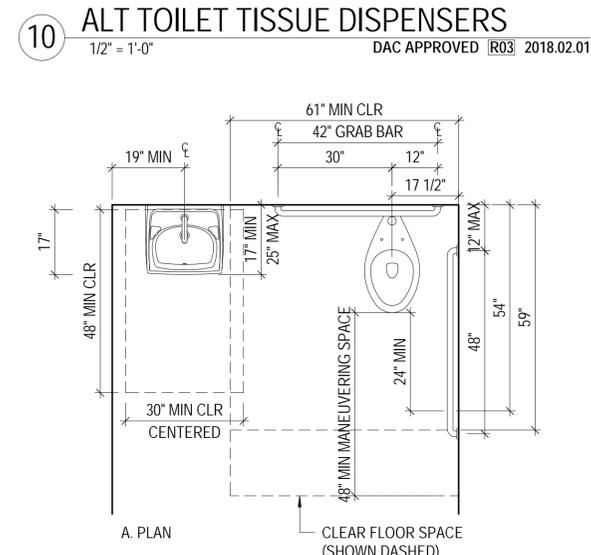
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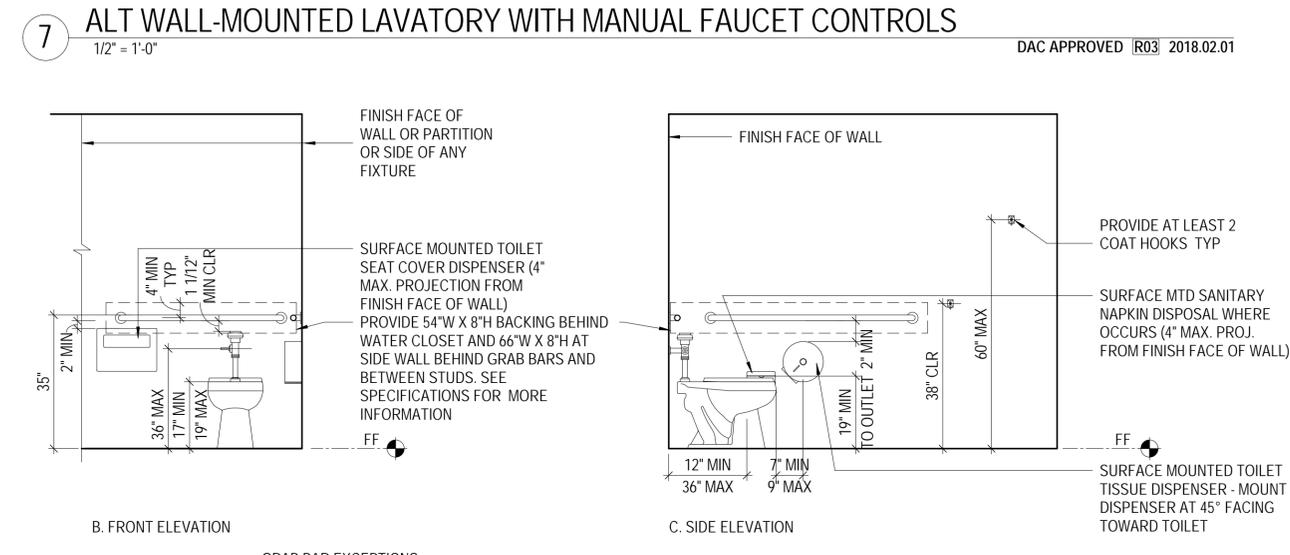
B. SURFACE MOUNTED MULTI-ROLL DISPENSER
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



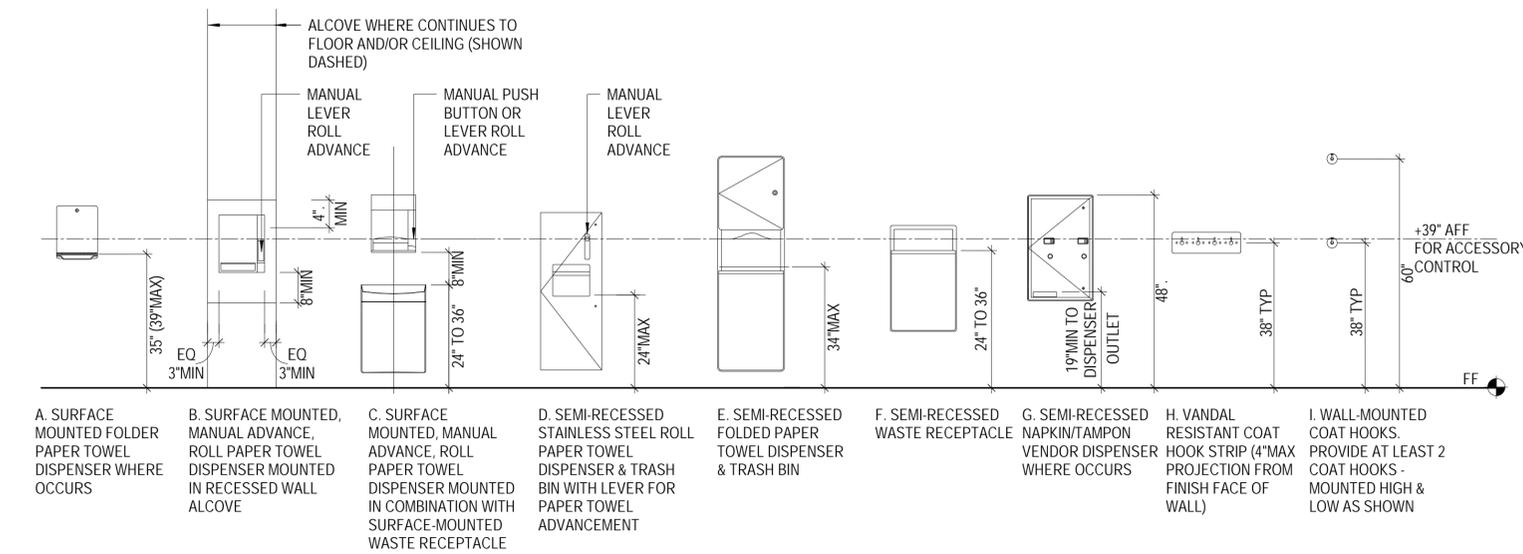
7 ALT WALL-MOUNTED LAVATORY WITH MANUAL FAUCET CONTROLS
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



10 ALT TOILET TISSUE DISPENSERS
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



11 ALT FLOOR-MOUNTED TOILET
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



TOWEL DISPENSER NOTES

- ALL HARD ROLL PAPER TOWEL DISPENSERS SHALL BE EITHER ELECTRONIC AUTOMATIC DISPENSER THAT CAN DISPENSE TOWELS WITHOUT TOUCHING ANY CONTROLS OR HAVE A MANUAL PAPER ADVANCE LEVER.
- THE CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5LBF OF FORCE.
- AT LEAST ONE PAPER TOWEL DISPENSER IN EACH WASHROOM WHERE SCHEDULED SHALL BE MOUNTED FOR BARRIER FREE ACCESSIBILITY SUCH THAT ALL USER OPERABLE CONTROLS OR PARTS ARE WITHIN 39" OF THE FINISH FLOOR. ANY ADDITIONAL TOWEL DISPENSERS MAY BE MOUNTED SUCH THAT THE BOTTOM OF THE DISPENSER IS 52" AFF

ACCESSORY NOTES

- ALL ACCESSORIES LOCATED MORE THAN 27" AFF MUST NOT PROTRUDE MORE THAN 4" FROM WALL.

12 WALL ACCESSORY DETAILS
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01

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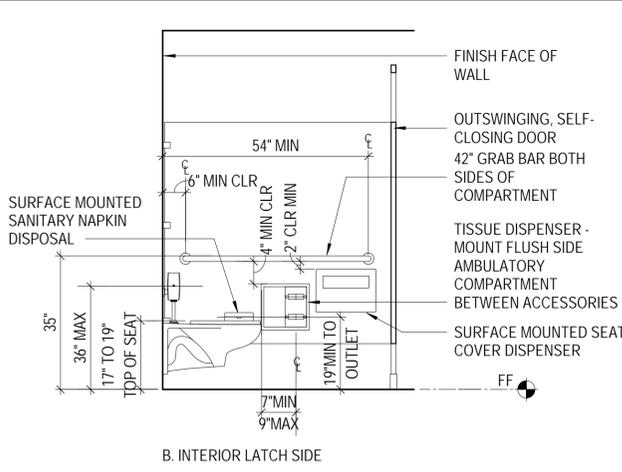
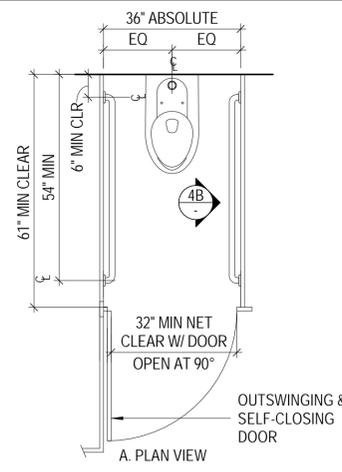
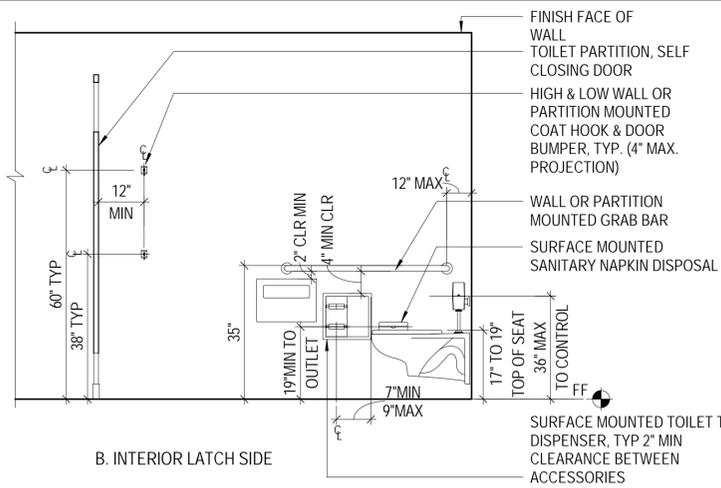
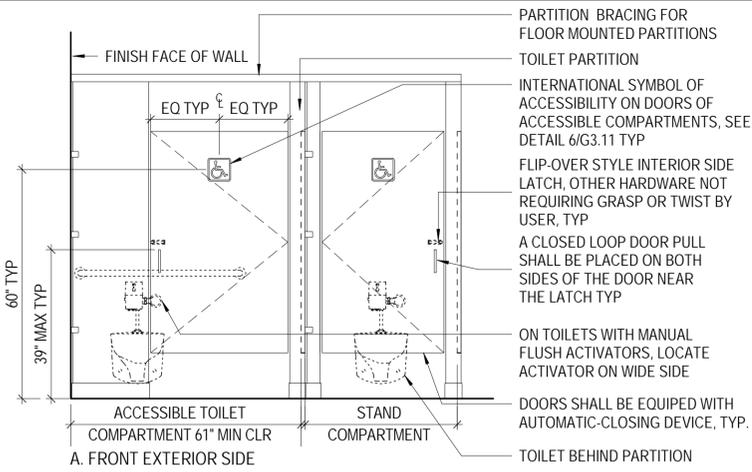
ACCESSIBLE TOILET RESTROOM STANDARD DETAILS

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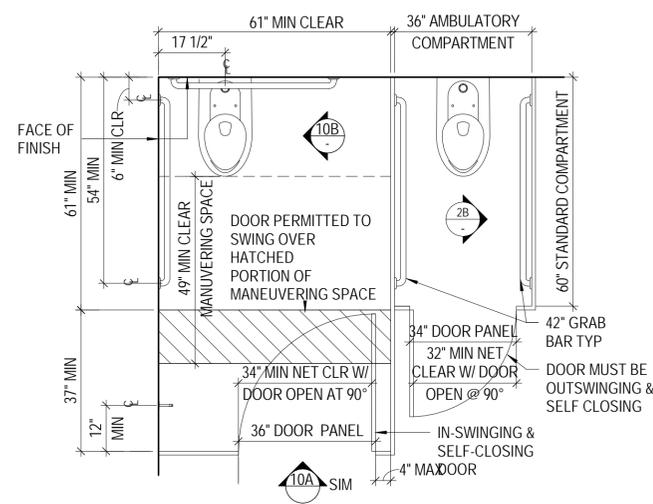


1. ALL PARTITION MOUNTED GRAB BARS MUST BE ABLE TO SUPPORT A MIN OF 250 LBS. IN ANY DIRECTION BOTH AT THE GRAB BAR AND AT THE PARTITION WITH DOCUMENTED CERTIFICATION BY TOILET PARTITION MFR.
2. TOILET TISSUE, SEAT COVER DISPENSER OR OTHER DISPOSAL UNITS ARE NOT PERMITTED BETWEEN THE WALL AND GRAB BAR.
3. SEE DET 12/G3.33 FOR ACCESSORIES.

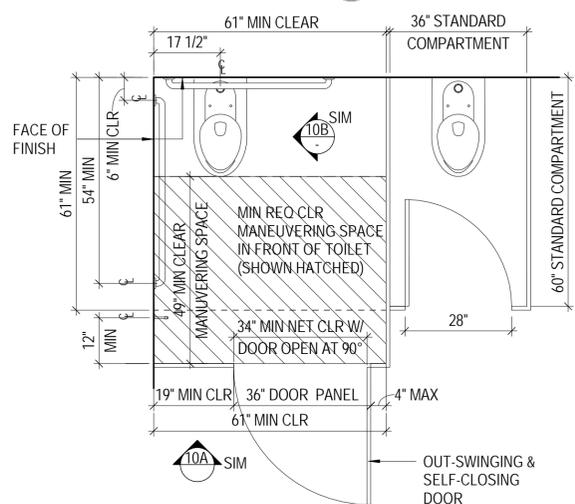
10 TOILET COMPARTMENT AND ADJACENT AMBULATORY TOILET COMPARTMENTS
 1/2" = 1'-0"

4 AMBULATORY COMPARTMENT
 1/2" = 1'-0"

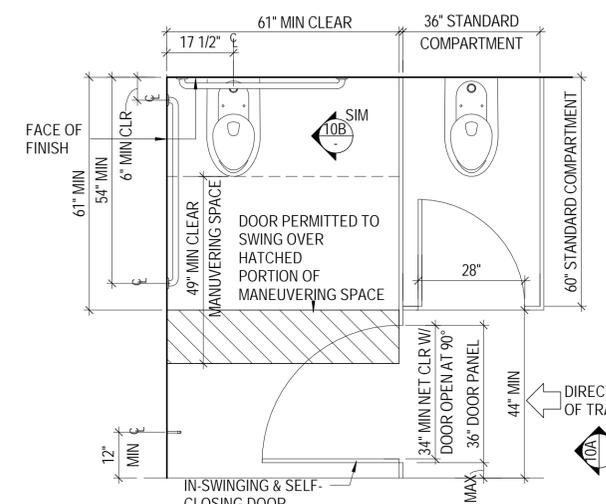
DAC APPROVED R03 2018.02.01



8 TOILET COMPARTMENT W/ FRONT-OPEN INSWING DOOR & ADJACENT AMBULATORY COMPARTMENT
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



5 TOILET COMPARTMENT W/ FRONT-OPEN OUTSWING DOOR
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



2 TOILET COMPARTMENT W/ IN-SWINGING SIDE ENTRY DOOR
 1/2" = 1'-0" DAC APPROVED R03 2018.02.01

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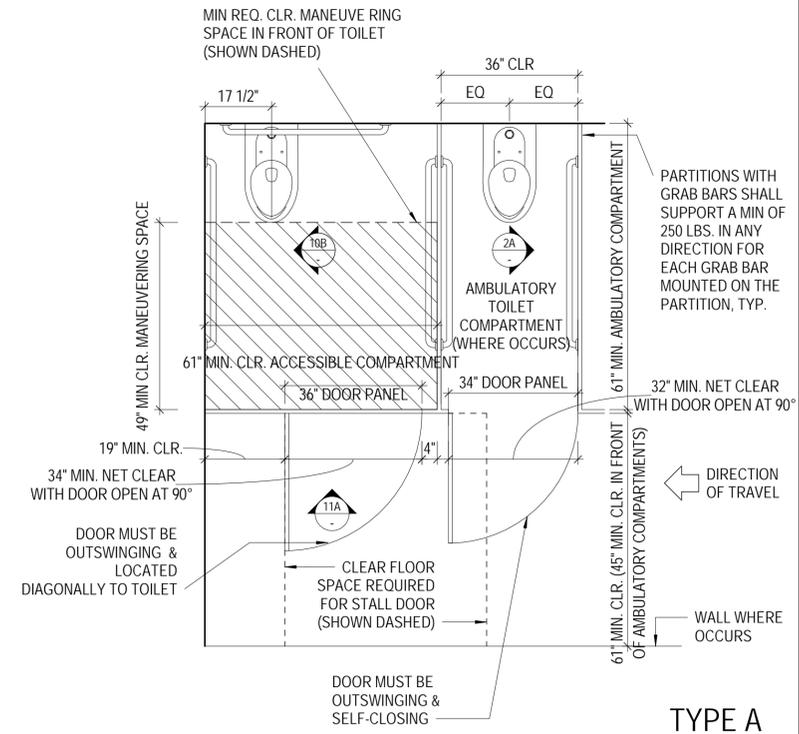
ACCESSIBLE TOILET ROOM
ALTERNATE DETAILS

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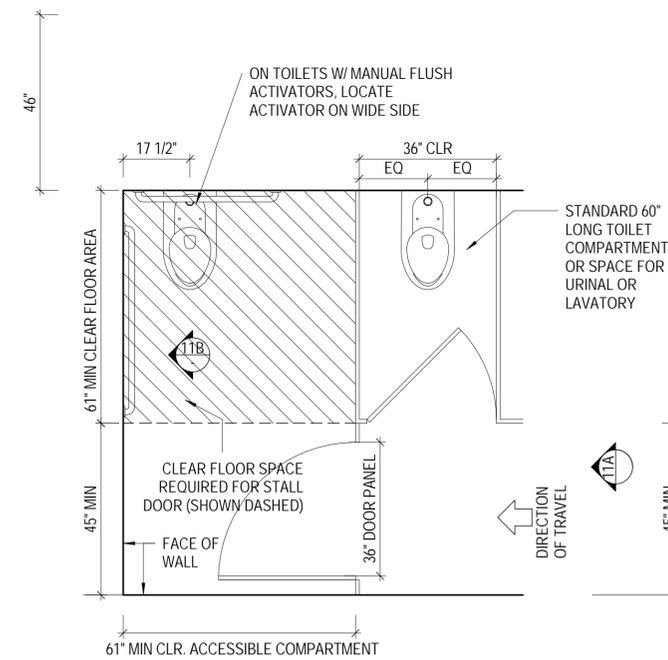
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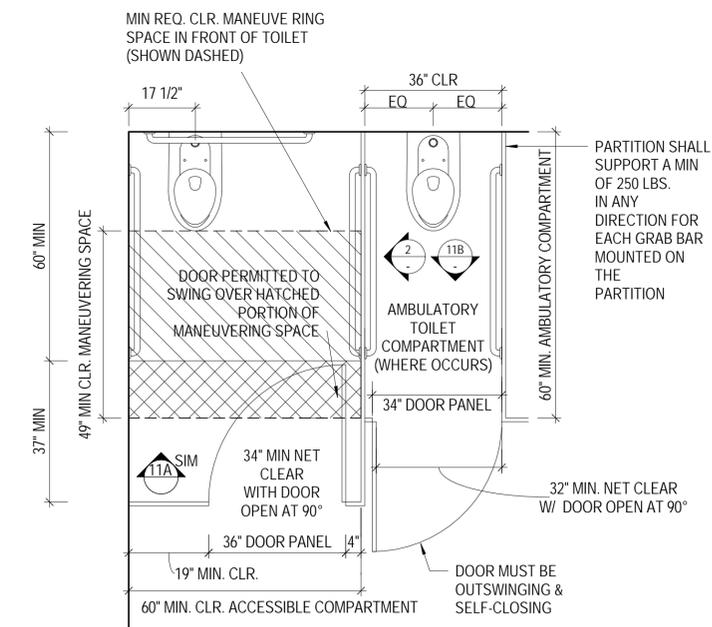
TYPE A
TOILET COMPARTMENT ADJACENT TO AMBULATORY COMPARTMENT - DOOR SWING OUT

2 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



6
TOILET COMPARTMENT W/ IN-SWINGING SIDE DOOR

1/2" = 1'-0" DAC APPROVED R03 2018.02.01



TYPE B
TOILET COMPARTMENT ADJACENT TO AMBULATORY COMPARTMENT - IN-SWING DOOR

3 1/2" = 1'-0" DAC APPROVED R03 2018.02.01





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ACCESSIBLE SHOWER DETAILS

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Scale: 1/2" = 1'-0"

SHOWER COMPARTMENTS - GENERAL NOTES:

B. CLEARANCES, SLOPES, & THRESHOLDS

1. SHOWER COMPARTMENTS ARE SHOWN WITH CLEARANCES THAT MAY EXCEED THOSE INDICATED IN STANDARD BUILDING CODE. WHEN APPROVED BY THE CITY REPRESENTATIVE, STANDARD PRE- MANUFACTURED ROLL-IN SHOWER UNIT IS PERMITTED FOR THE ROLL- IN SHOWER COMPARTMENT.

2. FOR AN ALTERNATE ROLL-IN SHOWER COMPARTMENT CONFIGURATION, THE CLEARANCE BETWEEN THE SEAT WALL AND OPPOSING WALL IS 36" ABSOLUTE.

3. ENCLOSURES FOR SHOWER COMPARTMENTS SHALL NOT OBSTRUCT CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

4. GROUND FLOOR SURFACES OUTSIDE AND INSIDE THE SHOWER COMPARTMENT SHALL NOT EXCEED 1.5% SLOPE IN ANY DIRECTION. WITHIN A SHOWER COMPARTMENT, THE FLOOR SURFACE SHALL SLOPE TO DRAIN WITHIN THE COMPARTMENT.

3. THRESHOLDS ARE PERMITTED IN ROLL-IN SHOWERS AND NOT ALTERNATE ROLL-IN SHOWER COMPARTMENTS. THRESHOLDS SHALL BE SOLID MATERIAL UON AND 1/4" MAX HEIGHT WITH BEVELED EDGES.

B. SHOWER CONTROLS

1. REFER TO PLUMBING SPECIFICATIONS FOR INDIVIDUAL CONTROLS AND FIXTURES SHOWN IN DETAILS, ESPECIALLY FOR INTEGRATED SHOWER CONTROL APPLIANCES.

2. A SEPARATE SHOWER SPRAY UNIT AND AN UPPER SHOWER SPRAY HEAD ARE REQUIRED. ADJUSTABLE HEIGHT SHOWER HEAD ON A VERTICAL BAR IS NOT PERMITTED.

3. SHOWER CONTROLS AND THEIR LEVERS SHALL BE COMPLETELY LOCATED IN THE CONTROL LOCATION AREA. WHERE AN INTEGRATED SHOWER CONTROL APPLIANCE IS SPECIFIED, LOCATE ALL PLUMBING FIXTURES IN THE CONTROL LOCATION AREA. THE GRAB BAR SHALL NOT OVERLAP THE UNIT'S ESCUTCHEON.

4. SHOWER CONTROLS SHALL BE OF A SINGLE-LEVER DESIGN, OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL NOT EXCEED 5 LBF.

5. SHOWER CONTROL LEVER AT FULL OPEN POSITION SHALL NOT BE MORE THAN 27" FROM CORNER OF SEAT WALL. IT SHALL NOT ENCR OACH WITHIN 1 1/2" TO TOP OF GRAB BAR IN ANY POSITION.

6. SHOWER CONTROL ESCUTCHEON SHALL BE LOCATED TO PERMIT THE PASSAGE OF A 1 1/2" DOWEL THROUGH IT AND A GRAB BAR.

7. SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. SHOWER SPRAY HOSE SHALL BE 60" LONG MIN.

C. SHOWER SEATS.

1. A 15" BY 22" RECTANGULAR, FOLDING SHOWER SEAT IS SHOWN IN ALTERNATE SHOWER COMPARTMENT. WHEN FOLDED, THE SEAT SHALL EXTEND 6" MAX FROM SEAT WALL. TOP OF SHOWER SEAT SHALL BE MOUNTED BETWEEN 17" MIN TO 18" MAX FROM FLOOR SURFACE AT SEAT WALL.

2. THE ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED IN ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE OR SUPPORTING STRUCTURE.

D. GRAB BARS.

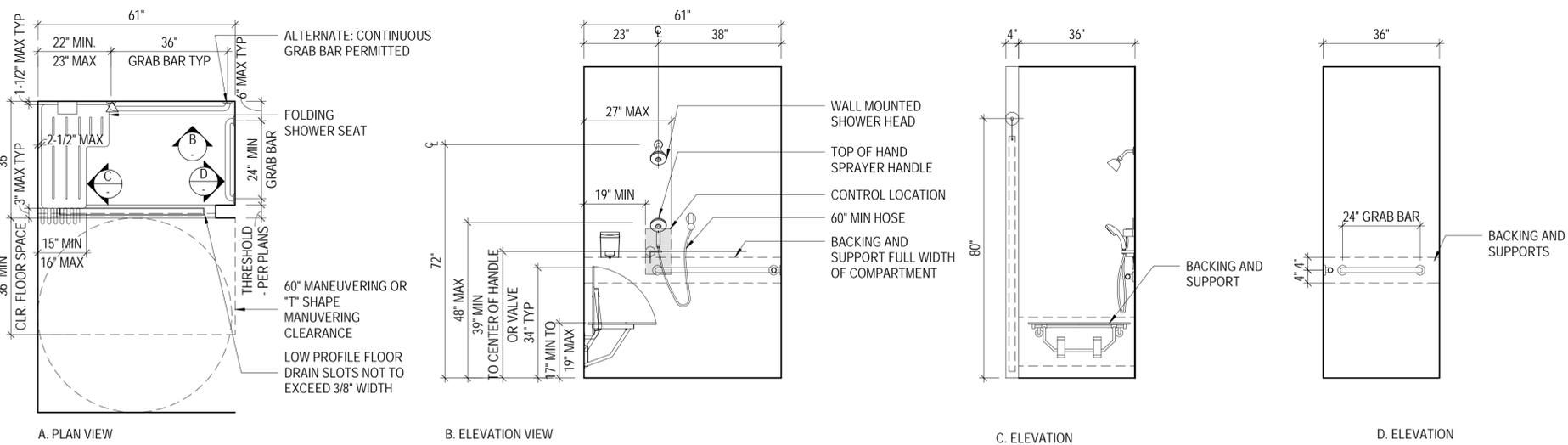
1. SEPARATE GRAB BARS ARE SHOWN IN DETAILS. INTEGRAL GRAB BAR COMPONENTS AND CONTINUOUS GRAB BARS ARE PERMITTED.

2. GRAB BAR BACKING AND SUPPORTS SHALL BE CONTINUOUS FOR FULL WIDTH AND DEPTH OF WALLS WITH GRAB BARS AS SHOWN.

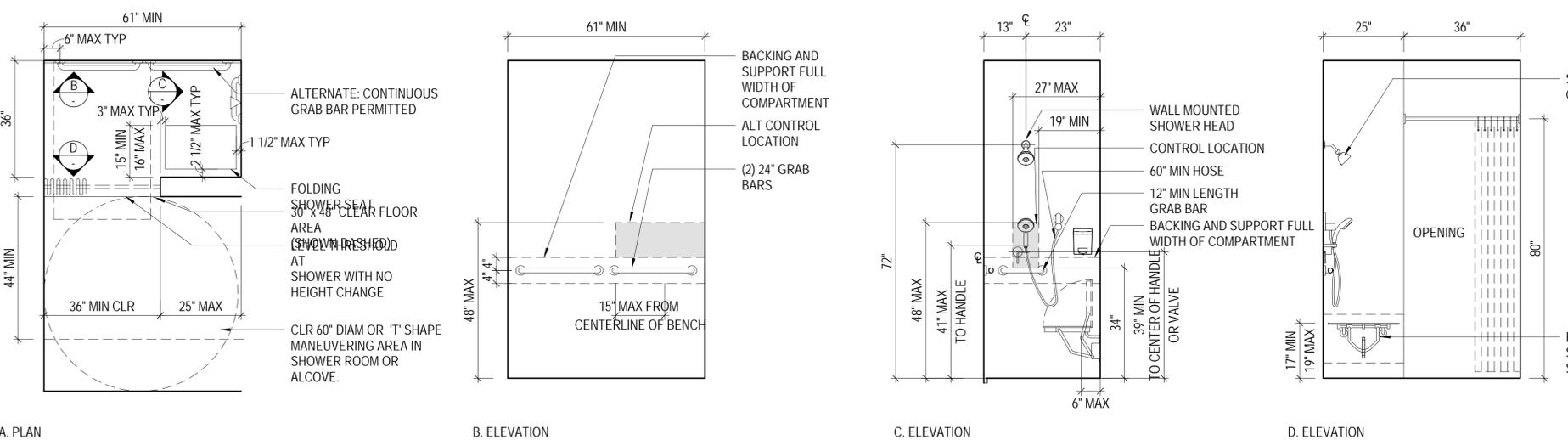
3. THE ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED IN ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE OR SUPPORTING STRUCTURE.

E. DRAINS AND COVERS

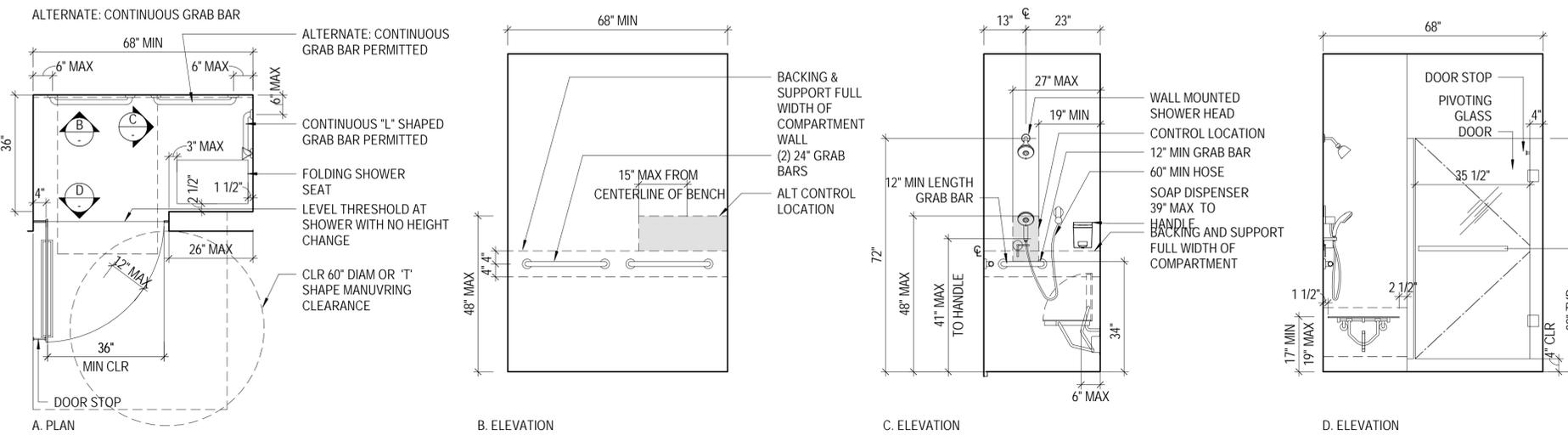
1. MAXIMUM OPENING IN FLOOR DRAINS IS 1/4". DRAIN MUST BE FLUSH WITH FINISHED FLOOR.



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PARKING

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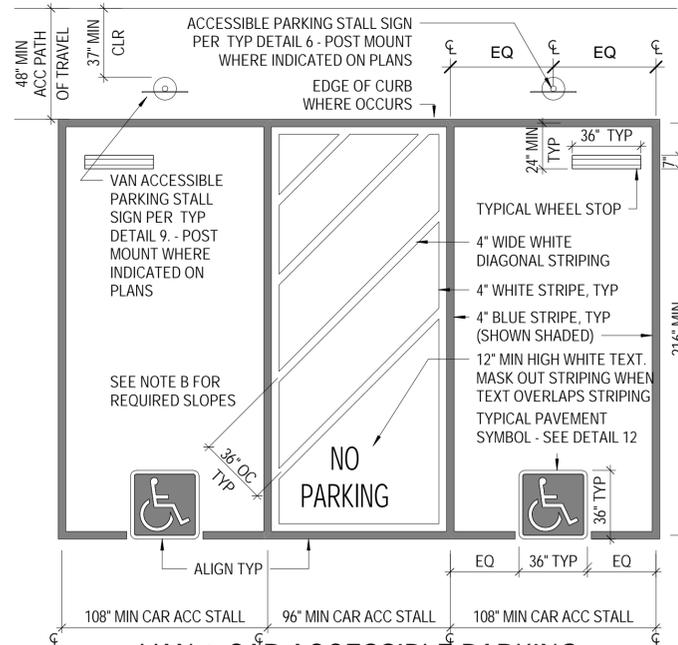
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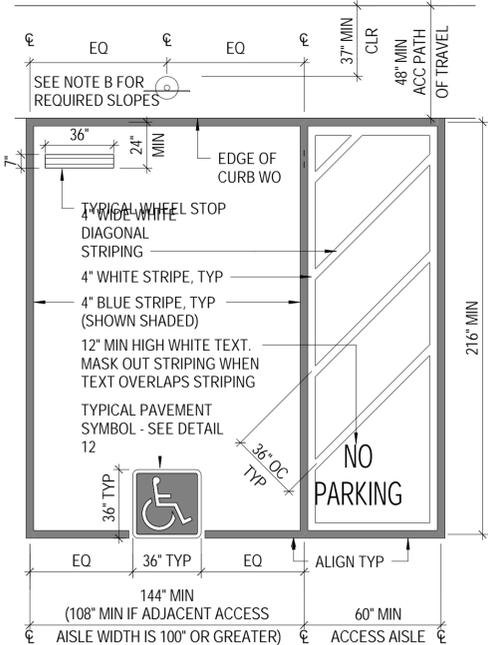
PARKING SPACE DESIGN NOTES

GENERAL PARKING, ELECTRICAL VEHICLE PARKING AND VALET PARKING SHALL BE CALCULATED SEPARATELY. SPECIALIZED PARKING FOR EMPLOYEES VERSUS PUBLIC VS. MEDICAL ETC. SHALL BE CALCULATED SEPARATELY.

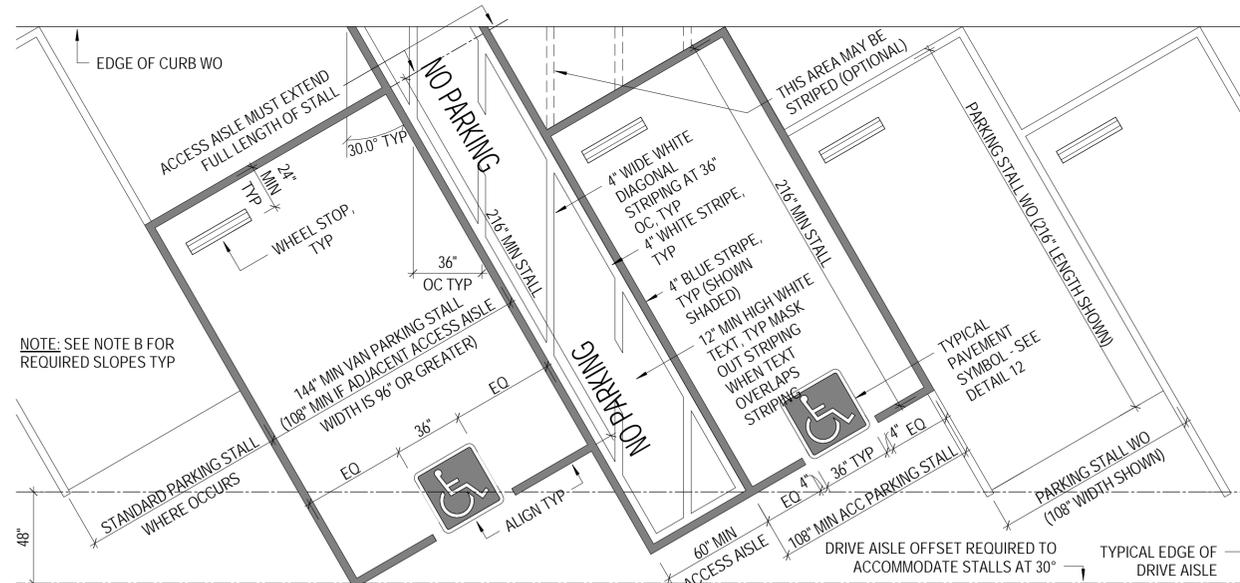
- A. **ACCESSIBLE ROUTES**
 AN ACCESSIBLE ROUTE SHALL CONNECT ACCESS AISLES OF ACCESSIBLE PARKING SPACES TO BUILDINGS AND FACILITY ENTRANCES AND WALKS AND SIDEWALKS THAT SERVE OTHER ACCESSIBLE ELEMENTS ON A SITE. CBC 11B-208.3 PROVIDES OTHER PLANNING CRITERIA.
- B. **FLOOR SURFACES AT ACCESSIBLE SPACES, ADJACENT ACCESS AISLES AND ACCESSIBLE ROUTES SHALL**
 1. BE FIRM, STABLE, AND SLIP RESISTANT.
 2. CROSS SLOPE IN ANY DIRECTION SHALL NOT EXCEED 1.5% MAX.
 3. OPENINGS IN FLOOR OR GROUND SURFACES OF THESE AREAS SHALL NOT PERMIT THE PASSAGE OF A 1/2" DIAMETER SPHERE.
 4. CHANGES IN ELEVATION SHALL NOT EXCEED 1/4" MAX.
 5. DETECTABLE WARNINGS, DRAINS, OR GRATES ARE NOT PERMITTED TO BE PLACED IN OR ON PARKING SPACE OR ADJACENT ACCESS AISLE SURFACES.
- C. **VERTICAL CLEARANCES**
 THE VERTICAL CLEARANCE ALONG VEHICULAR ROUTE TO AND FROM ACCESSIBLE SPACES ARE REQUIRED TO BE MINIMUM 114" CLEAR. THE ACCESSIBLE ROUTE LEADING TO AND FROM ACCESS AISLES TO BUILDING AND FACILITY ENTRANCE, OR DESIGNATED ROUTE TO EXITS, SHALL BE 120" CLEAR MAX.
- D. **PAVING**
 ACCESSIBLE PARKING SPACES, PASSENGER LOADING ZONES, ELECTRIC VEHICLE SPACES REQUIRED BY CBC 11B-228.3, AND ADJACENT ACCESS AISLES SHALL BE CONCRETE PAVING. CONSTRUCTION DETAILS INCLUDING REINFORCING ARE SHOWN ELSEWHERE ON DRAWINGS.
- E. **PARKING SPACE SIGNS AND MOVEMENT MARKINGS**
 1. ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN BEARING THE STANDARD ISA SYMBOL IN WHITE ON A BLUE BACKGROUND, THE TEXT "RESERVED PARKING" OR "PARKING ONLY", AND THE TEXT, "\$250 MINIMUM FINE".
 2. VAN ACCESSIBLE SIGNS SHALL BE IDENTIFIED BY A SIGN WITH THE TEXT "VAN ACCESSIBLE" WHICH MAY BE SEPARATED OR INTEGRATED WITH THE FIRST SIGN.
 3. SIGNS SHALL BE MOUNTED ON A WALL SURFACE, POLE OR HUNG FROM OVERHEAD STRUCTURE. MIN MOUNTING HEIGHTS ARE NOTED IN DETAILS.
 4. PARKING SPACE, PASSENGER LOADING AND UNLOADING SPACE AND ACCESS AISLE PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MATERIALS. STANDARD SIZES AND GRAPHICS ARE SHOWN IN DETAILS. TECHNICAL CRITERIA FOR MATERIALS ARE LOCATED IN SPECIFICATIONS.
 5. THE "UNAUTHORIZED VEHICLES" TOWING SIGN SHALL BE POSTED AS SHOWN IN PLANS.



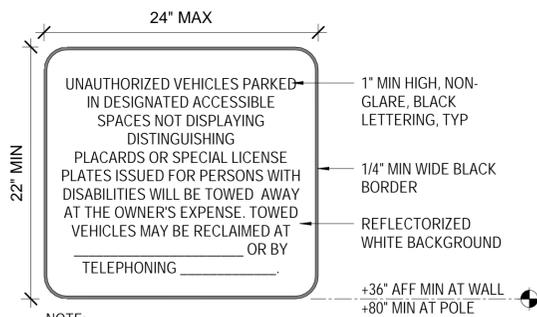
7 VAN & CAR ACCESSIBLE PARKING STALL
 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



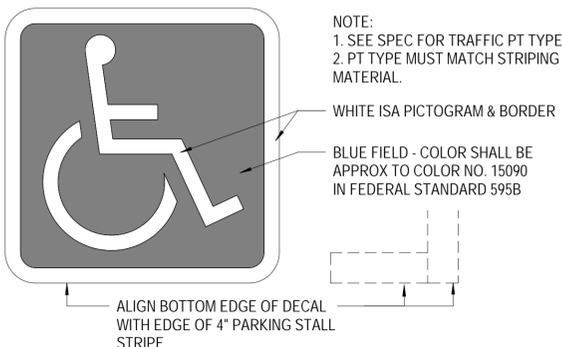
4 VAN ACCESSIBLE PARKING STALL
 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



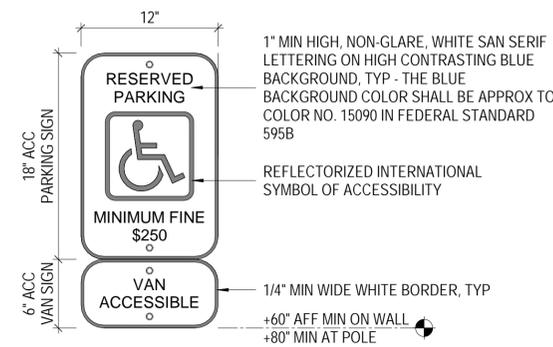
8 30° ANGLED VAN & CAR ACCESSIBLE PARKING STALL
 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



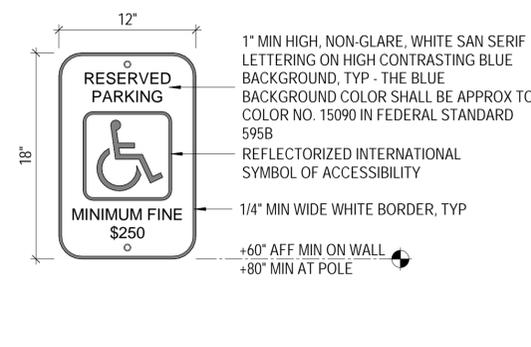
11 UNAUTHORIZED VEHICLE TOWING SIGN
 1 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



12 INTERNATIONAL SYMBOL OF ACCESSIBILITY - PAVING DECAL
 1" = 1'-0" DAC APPROVED R03 2018.02.01



9 VAN ACCESSIBLE PARKING STALL SIGN
 1 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



6 ACCESSIBLE PARKING STALL SIGN
 1 1/2" = 1'-0" DAC APPROVED R03 2018.02.01



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ELECTRIC VEHICLE CHARGING STATIONS - ENLARGED PARKING SPACES

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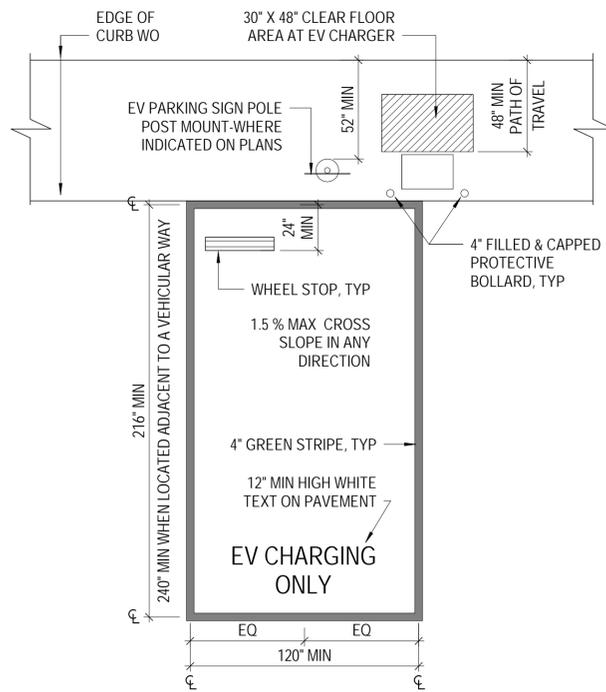
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ELECTRIC VEHICLE CHARGING STATION (EVCS) ENLARGED PARKING SPACE DESIGN NOTES

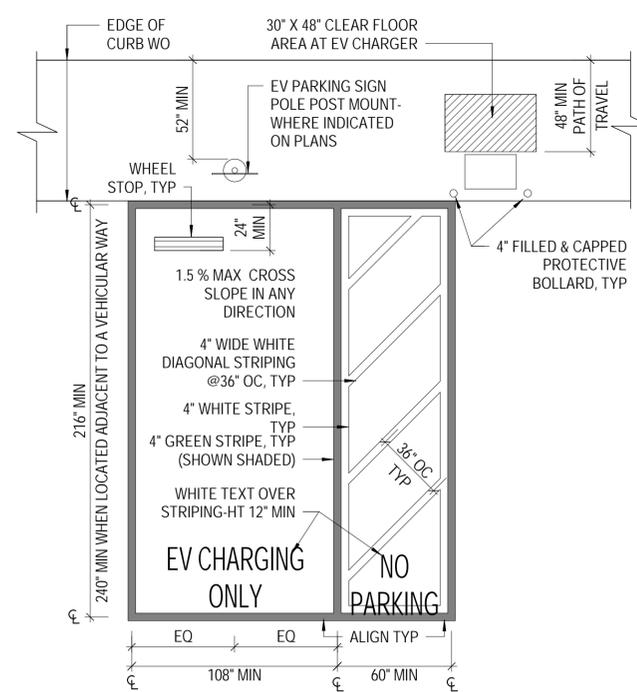
- A. THESE PLANS DETAILS APPLY TO EVCS THAT ARE ENLARGED SPACES AND WHICH ALSO HAVE A POTENTIAL TO BE CONVERTED TO EV PARKING SPACES, SUCH AS 'EV-READY' SPACES.
- B. **CALCULATION OF ENLARGED EVCS PARKING SPACES**
- ENLARGED EVCS SPACES FOR THE PUBLIC AND GENERAL PARKING AND / OR "EV READY" SHALL BE CALCULATED PER CBC SECTION 22B.2.
 - WHEN NEW EVCS ARE PROVIDED FOR PUBLIC OR COMMON USE, THE TOTAL NUMBER OF EXISTING AND NEW SPACES SHALL BE USED IN THIS CALCULATION.
 - WHERE AN EV CHARGER CAN SIMULTANEOUSLY CHARGE MORE THAN ONE VEHICLE, THE NUMBER OF EV CHARGERS PROVIDED SHALL BE CONSIDERED EQUIVALENT TO THE NUMBER OF ELECTRIC VEHICLES THAT CAN BE SIMULTANEOUSLY CHARGED.
 - EVCS NOT AVAILABLE TO THE GENERAL PUBLIC AND INTENDED FOR USE BY A DESIGNATED VEHICLE OR DRIVER SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR CALCULATION. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: EVCS SERVING PUBLIC OR PRIVATE FLEET VEHICLES OR PRIVATE FLEET VEHICLES AND EVCS ASSIGNED TO AN EMPLOYEE.
 - EVCS ENLARGED SPACES PROVIDED FOR NEW OR EXISTING PARKING FACILITY MAY SERVE AS ENLARGED SPACES IN "EV-READY" PARKING LOTS THAT BECOME FULLY OR PARTIALLY CONVERTED TO EVCS.
- C. **ACCESSIBLE ROUTES**
- AN ACCESSIBLE ROUTE SHALL CONNECT ACCESS AISLES OF TYPES A AND B ACCESS AISLES TO BUILDINGS AND FACILITY ENTRANCES AND WALKS AND SIDEWALKS THAT SERVE OTHER ACCESSIBLE ELEMENTS ON A SITE. AN ACCESSIBLE ROUTE SHALL CONNECT THE ENLARGED EVCS PARKING SPACE, AND THE EVCS CHARGER WHICH IT SERVES. CORDS FROM AN EVCS CHARGER SHALL NOT CROSS THIS ACCESSIBLE ROUTE.
- D. **FLOOR SURFACES**
- FLOOR SURFACES AT ENLARGED PARKING SPACES, THE ADJACENT ACCESS AISLES AND ACCESSIBLE ROUTES SHALL:
- BE FIRM, STABLE, AND SLOPE RESISTANCE.
 - CROSS SLOPE IN ANY DIRECTION SHALL NOT EXCEED 1.5% MAX.
 - OPENINGS IN FLOOR OR GROUND SURFACES OF THESE AREAS SHALL NOT PERMIT THE PASSAGE OF A 1/2" DIAMETER SPHERE.
 - CHANGES IN ELEVATION SHALL NOT EXCEED 1/4" MAX.
 - DETECTABLE WARNINGS, DRAINS OR GRATES ARE NOT PERMITTED TO BE PLACED IN OR ON EVCS ENLARGE PARKING SPACE OR ADJACENT ACCESS AISLE SURFACES. WHEN USED ON ACCESSIBLE ROUTES CROSSING HAZARDOUS VEHICULAR AREAS OR ON CURB RAMPS, DETECTABLE WARNING TILES SHALL CONFORM TO PUBLIC WORKS STANDARD 102.859, SHEET RX-6. WHERE SHOWN IN DRAWINGS, DETECTABLE WARNINGS SHALL BE EMBEDDED COMPOSITE CONCRETE PANELS. SURFACE MOUNTED PANELS ARE NOT PERMITTED UON.
- E. **VERTICAL CLEARANCE**
- VEHICULAR ROUTE TO AND FROM TYPE A AND B ENLARGED SPACES ARE REQUIRED TO BE 98" CLEAR. THE ACCESSIBLE ROUTE LEADING TO AND FROM ACCESS AISLES TO BUILDING AND FACILITY ENTRANCES, OR DESIGNATED ROUTE TO EXITS, SHALL BE 80" MAX CLEAR.
- F. **PAVING MATERIAL**
- TYPE A AND B EVCS ENLARGED PARKING SPACES AND THEIR ADJACENT ACCESS AISLES SHALL BE CONCRETE PAVING. CONSTRUCTION DETAILS INCLUDING REINFORCING ARE SHOWN ELSEWHERE ON DRAWINGS.
- G. **SIGNS AND PAVEMENT MARKINGS**
- EVCS PARKING SPACES SHALL BE IDENTIFIED BY THE SIGN IN DETAIL 1.
 - WHERE FOUR OR FEWER TOTAL EVCS ARE PROVIDED, IDENTIFICATION WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND SIGNS IDENTIFYING VAN ACCESSIBLE SPACES SHALL NOT BE REQD. WHEN REQD THE ISA GRAPHIC AND "VAN ACCESSIBLE" TEXT MAY APPEAR ON THE SAME SIGN PANEL AND SHALL BE MOUNTED ON A WALL SURFACE, POLE OR HUNG FROM OVERHEAD STRUCTURE.
 - EVCS ENLARGED PARKING SPACE AND ADJACENT ACCESS AISLE PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MATERIALS. STANDARD SIZES AND GRAPHICS ARE SHOWN IN DETAILS. TECHNICAL CRITERIA FOR MATERIALS ARE LOCATED IN SPECIFICATIONS.
- H. **ELECTRIC VEHICLE CHARGERS AT ENLARGED EVCS SPACES**
- ELECTRICAL VEHICLE CHARGERS SHALL BE ON ACCESSIBLE ROUTE THAT CONNECTS IT TO THE ENLARGED EVCS PARKING SPACE. IT SHALL NOT BE LOCATED WITHIN THE ENLARGED EVCS SPACE OR ACCESS AISLE DEFINED AREA UON.
 - A 30" MIN AND 48 IN MAX CLEAR FLOOR OR GROUND SPACE SHALL BE LOCATED ADJACENT TO AND CENTERED UPON THE OPERABLE CONTROLS SIDE OF THE CHARGING UNIT. OPERABLE PARTS AND CHARGING CORE STORAGE SHALL COMPLY WITH CBC SECTION 11B-309 OPERABLE PARTS. POINT-OF SALES DEVICES SHALL COMPLY WITH TECHNICAL AND PERFORMANCE CRITERIA OF CBC SECTION 11B-812.10.3.
 - CHARGERS MAY SERVE MULTIPLE ENLARGED EVCS SPACES OR OTHER EVCS SPACES, BUT THE CORD(S) SHALL NOT OBSTRUCT ACCESS AISLE OF ACCESSIBLE ROUTES OR THEIR CLEAR HEIGHTS. CHARGERS UNITS SERVING MORE THAN ONE EVCS SHALL BE ADJACENT TO AND WITHIN THE COMBINED PROJECTED WIDTH OF THE VEHICLE SPACES BEING SERVED. WHERE THE LONG DIMENSION OF A VEHICLE SPACE IS PARALLEL TO THE VEHICULAR WAY, THE CHARGER SHALL BE ADJACENT TO AND 48" MAX FROM THE HEAD END OR FOOT END OF THE VEHICLE SPACE OR ACCESS AISLE BEING SERVED.
 - IN ALTERATIONS AT EXISTING FACILITIES WHERE AN ACCESSIBLE ROUTE OR GENERAL CIRCULATION PATH IS NOT PROVIDED ADJACENT TO THE HEAD AND OF THE VEHICLE SPACE OR ACCESS AISLE, THE CHARGER MAY BE LOCATED WITHIN THE PROJECTED WIDTH OF THE ACCESS AISLE 36" MAX FROM THE HEAD END OF THE SPACE.



NOTE: TYPE C IS THE THIRD TYPE OF EV PARKING SPACE WHERE 26 TO 50 EV SPACES ARE PROVIDED. TYPE C HAS NO AISLE.

TYPE C - AMBULATORY EV CHARGING STATION

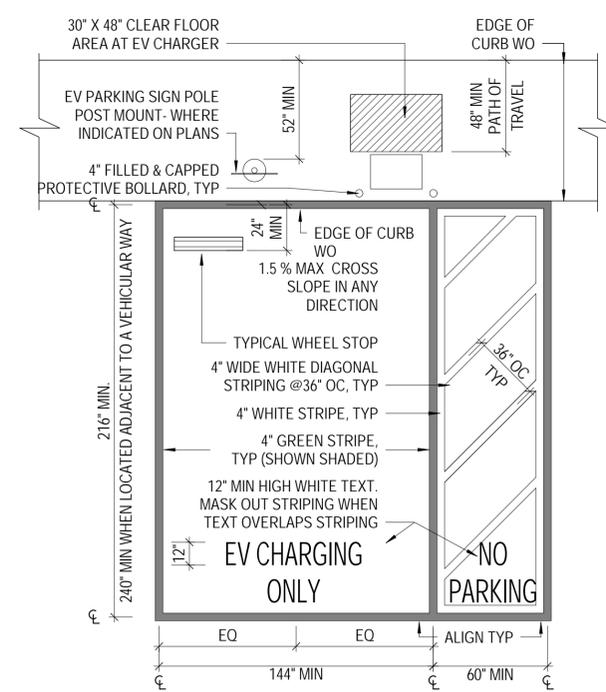
10 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



NOTE: TYPE B IS THE SECOND TYPE OF EV PARKING SPACE WHERE 5 TO 25 EV SPACES ARE PROVIDED. TYPE B IS PERMITTED TO SHARE TYPE A'S AISLE.

TYPE B - EV CHARGING STATION

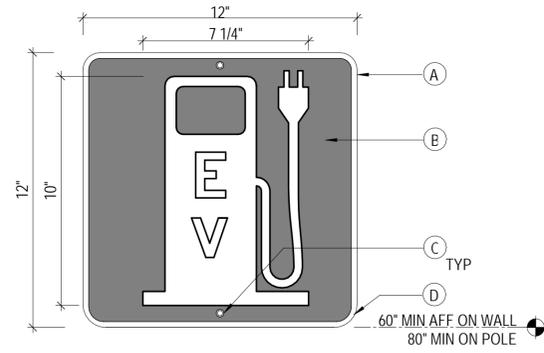
7 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



NOTE: TYPE A IS THE FIRST TYPE OF EV PARKING SPACE WHERE 1 TO 4 SPACES ARE PROVIDED.

TYPE A - VAN EV CHARGING STATION

4 1/4" = 1'-0" DAC APPROVED R03 2018.02.01



SIGN NOTES FOR VAN EVCS SIGNS:

- A. .080" THICK ALUM SIGN
- B. GRAPHICS PRINTED ON REFLECTED VINYL, SURFACED APPLIED TO ALUM PLATE
- C. 3/8" DIA MOUNTING HOLES
- D. 1- 1/2" RADIUS CORNERS

ELECTRIC VEHICLE WALL OR POLE SIGN

5 3" = 1'-0" DAC APPROVED R03 2018.02.01



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ELEVATOR SIZES AND PANEL INFORMATION

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Project No. _____

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A. ELEVATOR GENERAL NOTES.

1. THESE GENERAL NOTES ARE APPLICABLE TO STANDARD COMMERCIAL ELEVATORS AS DEFINED IN BOTH CHAPTERS 30 AND 11B. INFORMATION ON MATERIAL FINISHES AND DETAILS FOR INSIDE AND OUTSIDE THE CAR MAY OCCUR IN OTHER LOCATIONS WITHIN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
2. THESE GENERAL NOTES AND STANDARD ELEVATOR DETAILS DO NOT APPLY TO CBC 11B-408 LIMITED USE / LIMITED-APPLICATION ELEVATORS, 11B-401 PLATFORM (WHEELCHAIR) LIFTS, 11B-411 DESTINATION ORIENTED ELEVATORS, OR ELEVATOR CONTROL KEYPADS.
3. THESE STANDARD DETAILS DO NOT ADDRESS SMOKE SEPARATION APPLIANCES OR RATED FIRE DOORS THAT MAY BE INCLUDED FOR FIRE RATED CONSTRUCTION.

B. ELEVATOR DOORS AND CAR REQUIREMENTS

1. HOISTWAY AND CAR DOORS SHALL COMPLY WITH 11B-407.3.4. THE DOORS SHALL BE HORIZONTAL SLIDING TYPE, AND OPEN AND CLOSE AUTOMATICALLY.
2. ELEVATOR DOORS SHALL BE PROVIDED WITH A RE-OPENING DEVICE THAT SHALL STOP AND RE-OPEN A CAR AND HOISTWAY DOOR AUTOMATICALLY IF THE CLEARANCE BECOMES OBSTRUCTED BY AN OBJECT OR PERSON. THE DEVICE SHALL BE ACTIVATED BY SENSING AN OBSTRUCTION PASSING THROUGH THE OPENING BETWEEN 5" NOMINAL AND 29" NOMINAL AFF. THE DEVICE SHALL NOT REQUIRE PHYSICAL CONTACT TO BE ACTIVATED, ALTHOUGH CONTACT IS PERMITTED TO OCCUR BEFORE THE DOOR REVERSES.
3. ELEVATOR INSPECTIONS SHALL INCLUDE TESTING OF DOOR SIGNAL TIMING PER 11B-407.3.4. AND THAT RE-OPENING DEVICES REMAIN EFFECTIVE FOR 20 SECONDS MIN.
4. ELEVATOR CAR DIMENSIONS SHALL COMPLY WITH THE PROVISIONS OF 11B-407 AND DETAIL 4.
5. WHERE ELEVATORS ARE PROVIDED IN A BUILDING FOUR OR MORE STORIES ABOVE, OR BELOW GRADE LEVEL, A MIN OF ONE SHALL BE SIZED TO ACCOMMODATE AN AMBULANCE STRETCHER PER CBC PROVISIONS CHAPTER 30.
6. THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND EDGE OF ANY HOISTWAY LANDING SHALL BE 1 1/4" MAX AND THE TRANSITIONS BETWEEN MATERIALS INSIDE THE CAR, THE DOOR THRESHOLDS AND IN THE HALL SHALL BE FLUSH.

C. ELEVATOR CONTROLS AND SIGNALS

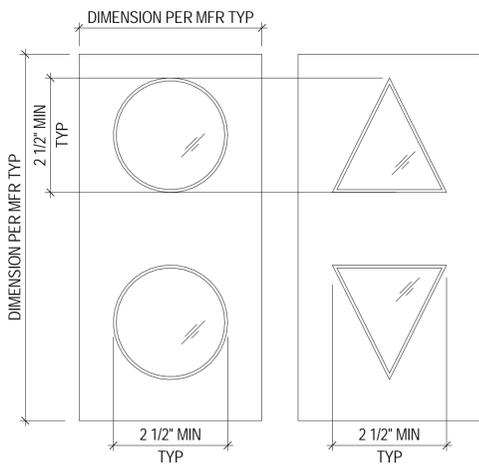
1. ELEVATOR HALL CALL BUTTONS SHALL HAVE VISIBLE SIGNALS THAT WILL ACTIVATE WHEN EACH CALL IS REGISTERED AND WILL EXTINGUISH WHEN EACH CALL IS ANSWERED.
2. WHERE KEYPADS ARE PROVIDED, KEYPADS SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH SECTION 11B-407.4.7.2.
3. VISIBLE AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE TO INDICATE WHICH CAR IS ANSWERING A CALL AND THE CAR'S DIRECTION OF TRAVEL. WHERE IN-CAR SIGNALS ARE PROVIDED, THEY SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL BUTTONS. AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION, OR SHALL HAVE VERBAL ANNUNCIATORS THAT INDICATE THE DIRECTION OF ELEVATOR CAR TRAVEL. AUDIBLE SIGNALS SHALL HAVE A FREQUENCY OF 1500 HZ MAXIMUM. VERBAL ANNUNCIATORS SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM AND 3000 HZ MAXIMUM. THE AUDIBLE SIGNAL AND VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 80 DB, MEASURED AT THE HALL CALL BUTTON.
5. FLOOR DESIGNATIONS COMPLYING WITH DETAIL 12 SHALL BE PROVIDED ON BOTH JAMBS OF ELEVATOR HOISTWAY ENTRANCES.

D. LEVELING AND LIGHTING

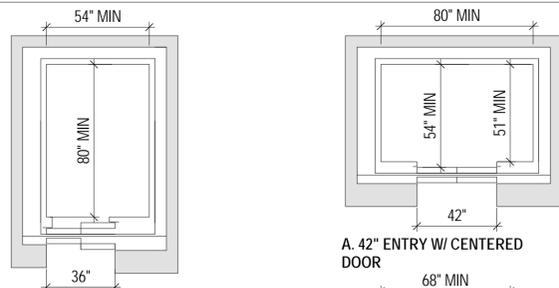
1. EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING AND MAINTAIN THE CAR AT FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2" MIN HIGH UNDER RATED LOADING TO ZERO LOADING CONDITIONS.
2. THE LEVEL OF ILLUMINATION AT THE CAR CONTROLS, PLATFORM, CAR THRESHOLD AND CAR LANDING SILL SHALL BE 5 FOOT CANDLES (54 LUX) MINIMUM.

E. CAR POSITION VISIBLE AND AUDIBLE INDICATORS

1. VISIBLE INDICATORS SHALL COMPLY WITH SECTION 11B-407.4.8.1
2. CHARACTERS SHALL BE 1/2" HIGH MIN HIGH AND INDICATORS SHALL BE LOCATED ABOVE THE CAR CONTROL PANEL OR ABOVE THE DOOR. AS THE CAR PASSES A FLOOR AND WHEN A CAR STOPS AT A FLOOR SERVED BY THE ELEVATOR THE CORRESPONDING CHARACTER SHALL ILLUMINATE.
3. AUDIBLE INDICATORS SHALL COMPLY WITH SECTION 11B-407.4.8.2. THE SIGNAL SHALL BE AN AUTOMATIC VERBAL ANNUNCIATOR WHICH ANNOUNCES THE FLOOR AT WHICH THE CAR IS ABOUT TO STOP. EXCEPTION IN 11B-407.4.8.2 IS NOT PERMITTED.

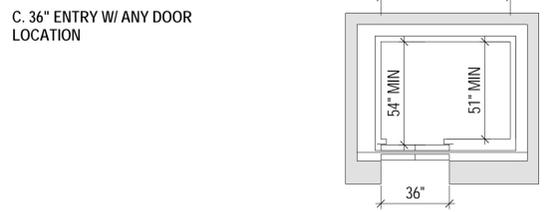


7 VISIBLE HALL SIGNALS
6" = 1'-0" DAC APPROVED R03 2018.02.01



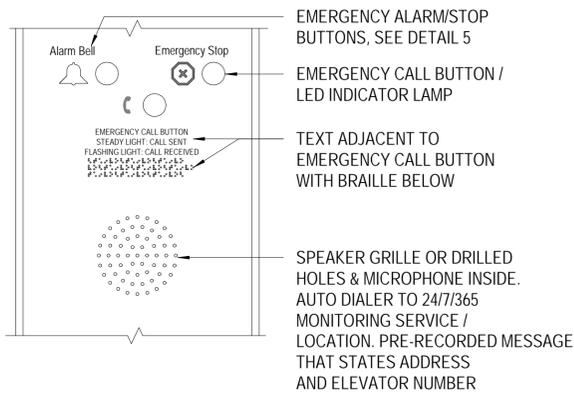
C. 36" ENTRY W/ ANY DOOR LOCATION

A. 42" ENTRY W/ CENTERED DOOR

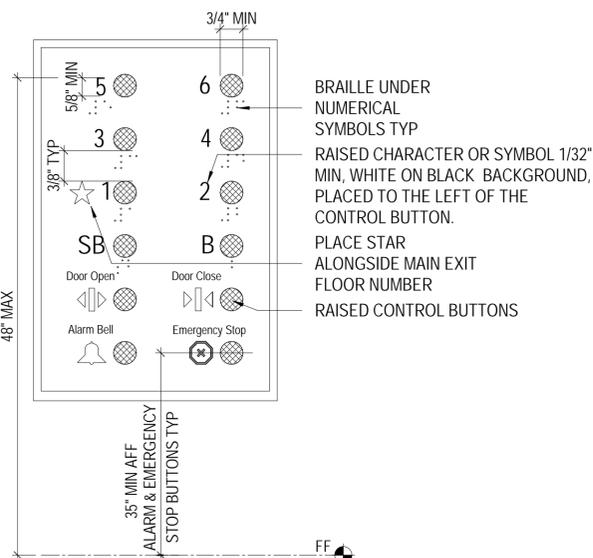


B. 36" ENTRY W/ OFF-CENTERED DOOR

4 CLEAR FLOOR ELEV DIMENSIONS
1/4" = 1'-0" DAC APPROVED R03 2018.02.01



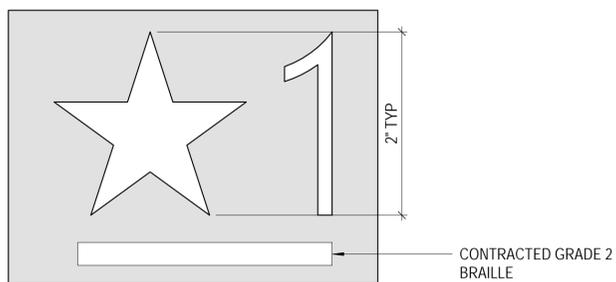
8 EMERGENCY COMMUNICATION UNIT IN CAR
N.T.S. DAC APPROVED R03 2018.02.01



5 ELEVATOR CAR CONTROLS
N.T.S. DAC APPROVED R03 2018.02.01

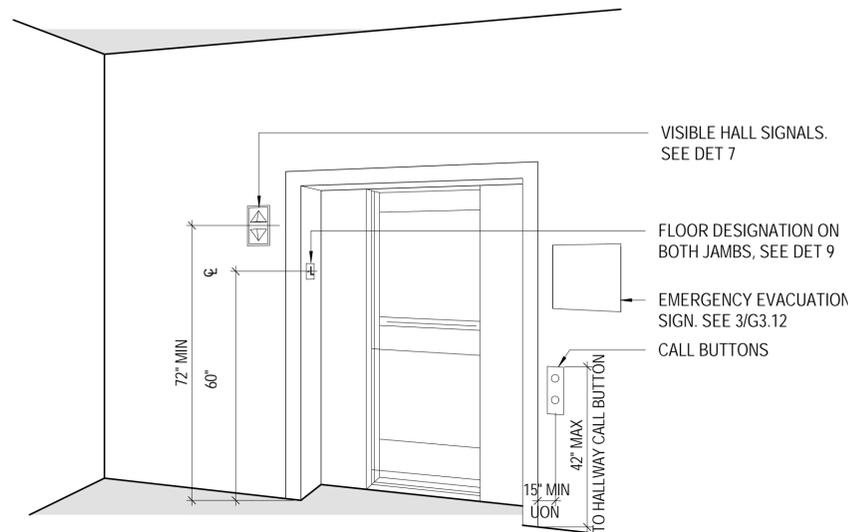
NOTES:

1. OBJECTS IN THE AREA ADJACENT TO AND BELOW THE CALL BUTTONS SHALL PROJECT 4" MAX FROM THE WALL SURFACE.
2. 38"x48" MIN CLEAR FLOOR AREA CENTERED ON CALL BUTTON PLACEMENT.



1. OUTSIDE DIAMETER OF STAR IS 2" AND ALL POINTS SHALL BE OF EQUAL LENGTH. STAR OCCURS ON AT MAIN ENTRY LEVEL
2. RAISED CHARACTERS, INCLUDING THE STAR, SHALL BE WHITE ON BLACK BACKGROUND
3. THE BRAILLE TRANSLATION FOR THE STAR SHALL BE 'MAIN.'
4. APPLIED PLATES ARE ACCEPTABLE IS PERMANENTLY FIXED TO THE JAMB

12 FLOOR DESIGNATION ON JAMB
12" = 1'-0" DAC APPROVED R03 2018.02.01



9 ELEVATOR LOBBY HALL SIGNALS
N.T.S. DAC APPROVED R03 2018.02.01



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Julia Laue - Principal Architect / Division Manager

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San Francisco, CA Fax (415)557-4701
94102-6028 (415)557-4700

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Issue Date _____

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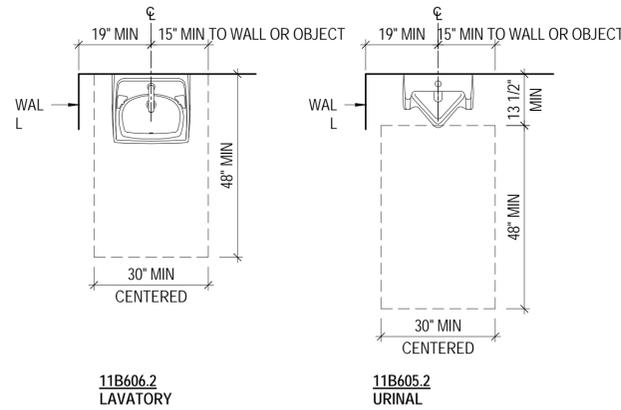
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DESIGN GUIDE FOR SINGLE USE - ALL GENDER RESTROOM - STANDARD CLEARANCES

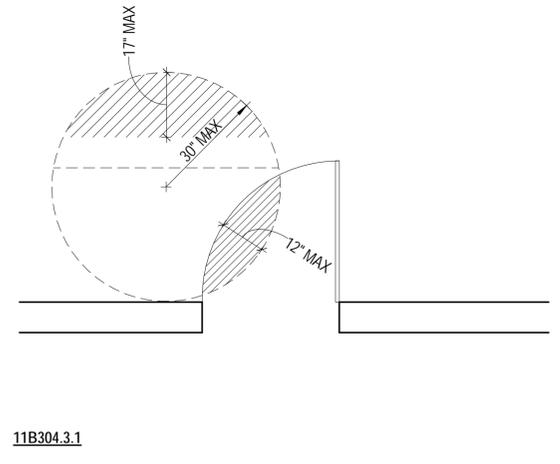
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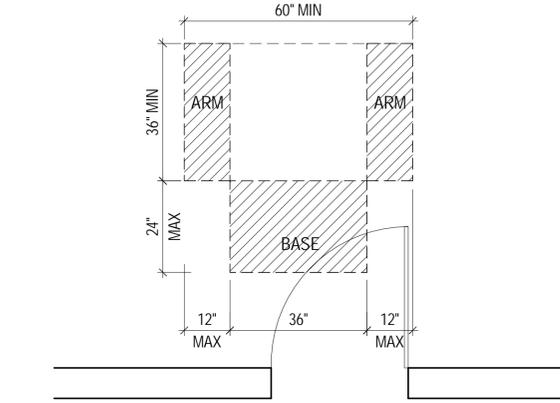
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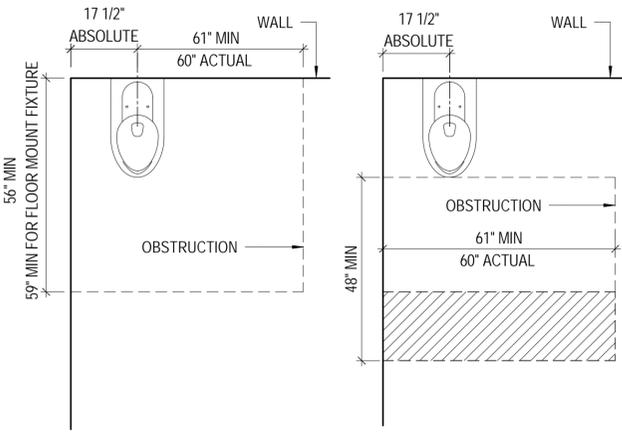
4 STANDARD CLEARANCES - LAVATORY & URINAL
1/2" = 1'-0" DAC APPROVED R03 2018.02.01



1 STANDARD CLEARANCES - 60" DIAM. MANEUVERING AREA
1/2" = 1'-0" DAC APPROVED R03 2018.02.01



2 STANDARD CLEARANCES - 'T' SHAPED MANEUVERING AREA
1/2" = 1'-0" DAC APPROVED R03 2018.02.01



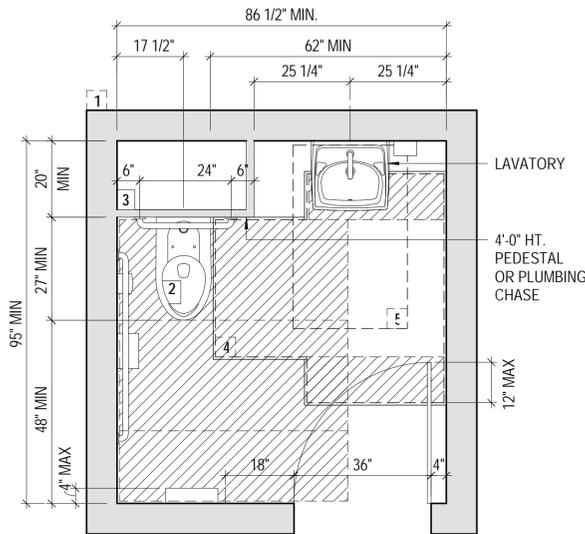
3 STANDARD CLEARANCES - ADA TOILET
1/2" = 1'-0" DAC APPROVED R03 2018.02.01

A1. SINGLE USER - T-SHAPED TURNING SPACE

ALL-GENDER - IN-SWINGING DOOR

PLANNING NOTES

- PER 2016 CBC 11B.603.2 OVERLAPPING CLEARANCES BETWEEN FIXTURES AND ENTRY DOOR. A 30"x48" CLEAR FLOOR AREA MUST BE PROVIDED OUTSIDE THE SWING OF THE DOOR.
- MIN DIMENSIONS ARE DEPENDENT UPON THE TYPE AND DEPTH OF WALL HUNG TOILET AND LAVATORY SELECTED. ASSUMES A 27"D TOILET, 18 1/4"D BY 20"W LAVATORY.
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- THE ROOM LAYOUT RELIES ON AN 11B 304.8 60" DIAM OR A "T" SHAPED MANEUVERING AREA AND PROVIDES, UON, AN ADDITIONAL 1" MIN TOLERANCE IN THE WIDTH AND DEPTH DIMENSIONS OF THE ROOM.
- 30" X 48" CLEAR FLOOR AREA MUST BE PROVIDED AT LAVATORY.

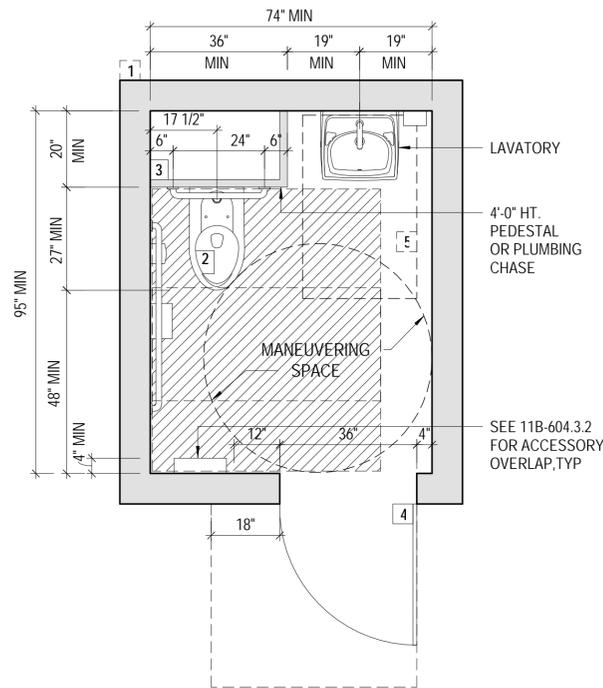


B1. SINGLE USER - MANEUVERING CLEARANCE FOR PARALLEL APPROACH

ALL-GENDER - OUT SWINGING DOOR

PLANNING NOTES

- PER 2016 CBC 11B.603.2 OVERLAPPING CLEARANCES BETWEEN FIXTURES AND ENTRY DOOR. A 30"x48" CLEAR FLOOR AREA MUST BE PROVIDED OUTSIDE THE SWING OF THE DOOR.
- TOILET ROOM'S MIN DIMENSIONS ARE DEPENDENT UPON THE TYPE AND DEPTH OF THE WALL HUNG TOILET AND LAVATORY SELECTED. ASSUMES A 27"D TOILET, 18 1/4" D BY 20"W LAVATORY.
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- THIS ROOM LAYOUT DOES NOT PERMIT AN IN-SWINGING DOOR.**
- 30" X 48" CLEAR FLOOR AREA MUST BE PROVIDED AT LAVATORY.

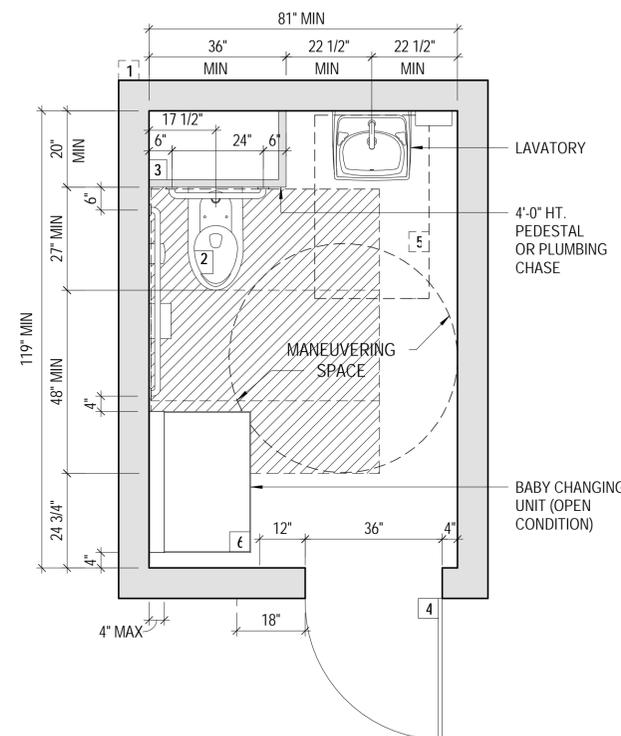


B2. SINGLE USER - MANEUVERING CLEARANCE FOR PARALLEL APPROACH AND BABY CHANGING STATION

B.2 ALL-GENDER - OUT-SWINGING DOOR

PLANNING NOTES

- PER 2016 CBC 11B.603.2 OVERLAPPING CLEARANCES BETWEEN FIXTURES AND ENTRY DOOR. A 30"x48" CLEAR FLOOR AREA MUST BE PROVIDED OUTSIDE THE SWING OF THE DOOR.
- MIN DIMENSIONS ARE DEPENDENT UPON THE TYPE AND DEPTH OF WALL HUNG TOILET AND LAVATORY SELECTED. ASSUMES A 27"D TOILET AND 18 1/4" D BY 20" W LAVATORY.
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- THIS ROOM LAYOUT DOES NOT PERMIT AN IN-SWINGING DOOR.**
- 30" X 48" CLEAR FLOOR AREA MUST BE PROVIDED AT LAVATORY.
- THE BABY-CHANGE UNIT IS 4" DEEP WHEN FOLDED, 36" MAX WIDTH, AND 4" MIN CLEARANCE TO ADJACENT WALL AND 1-8" MIN ADJACENT DOOR.
- IF THE ROOM HAS AN EXTERIOR DOOR, AN ADDITIONAL 10" MIN OF ROOM WIDTH IS REQUIRED FOR THE DOOR TO HAVE A 18" MIN STRIKE-SIDE, PULL-SIDE CLEARANCE. AN ADDITIONAL 16" MIN OF ROOM WIDTH IS REQUIRED FOR AN IN-SWINGING EXTERIOR DOOR.
- THE ROOM LAYOUT RELIES ON AN 11B 304.8 60" DIAM MANEUVERING AREA AND PROVIDES AN ADDITIONAL 1" MIN TOLERANCE IN THE WIDTH AND DEPTH DIMENSIONS OF THE ROOM UON.

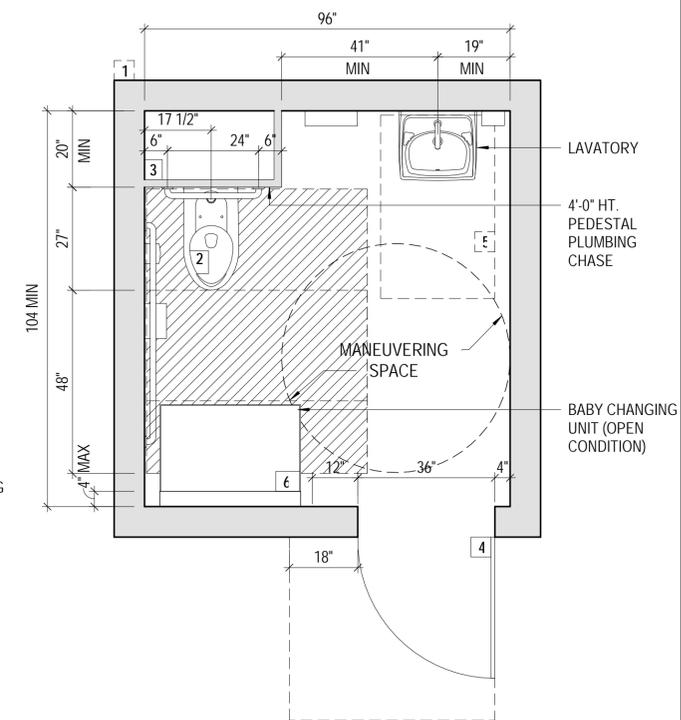


B3. SINGLE USER - MANEUVERING CLEARANCE WITH BABY CHANGING STATION AND BABY CHANGING STATION

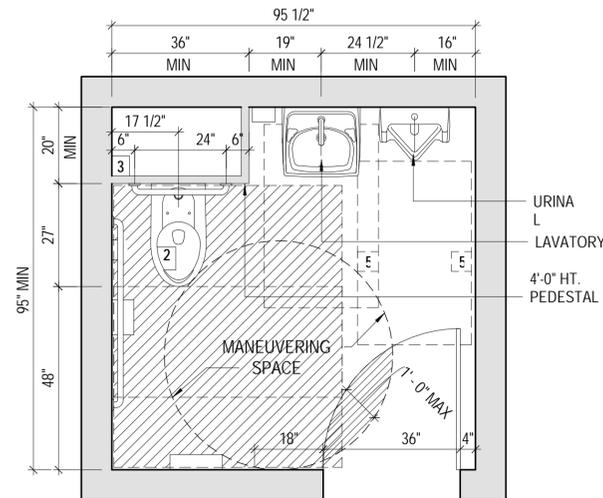
B.3 ALL-GENDER - OUT-SWINGING DOOR

PLANNING NOTES

- PER 2016 CBC 11B.603.2 OVERLAPPING CLEARANCES BETWEEN FIXTURES AND ENTRY DOOR. **THIS ROOM LAYOUT INCLUDES A BABY CHANGE UNIT.** TOILET ROOM'S MIN DIMENSIONS ARE DEPENDENT UPON THE TYPE AND DEPTH OF AN ADDITIONAL TOILET, LAVATORY AND URINAL SELECTED. ASSUMES A 27"D TOILET AND 18 1/4" D BY 20"W LAVATORY.
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- THIS ROOM LAYOUT DOES NOT PERMIT AN IN-SWINGING DOOR.**
- 30" X 48" CLEAR FLOOR AREA MUST BE PROVIDED AT LAVATORY.
- THE BABY-CHANGE UNIT IS 4" DEEP WHEN FOLDED, 36" MAX WIDTH, AND 4" MIN CLEARANCE TO ADJACENT WALL AND ADJACENT DOOR FRAME, EACH.
- AN ADDITIONAL 12" MIN ROOM DEPTH IS REQUIRED FOR A "T" SHAPED MANEUVERING AREA AND BABY CHANGING UNIT
- WITHOUT A BABY CHANGE UNIT, DOOR CAN SWING IN WITH T SHAPED TURNING SPACE PARTLY UNDER LAVATORY , A 30"x48" CLEAR FLOOR AREA MUST BE PROVIDED OUTSIDE THE SWING OF THE DOOR.
- THE ROOM LAYOUT RELIES ON AN 11B 304.8 60" DIAM MANEUVERING AREA AND PROVIDES AN ADDITIONAL 1" MIN TOLERANCE IN THE WIDTH AND DEPTH DIMENSIONS OF THE ROOM UON.



C1. SINGLE USER - MANEUVERING CLEARANCE FOR PARALLEL APPROACH W/ URINAL

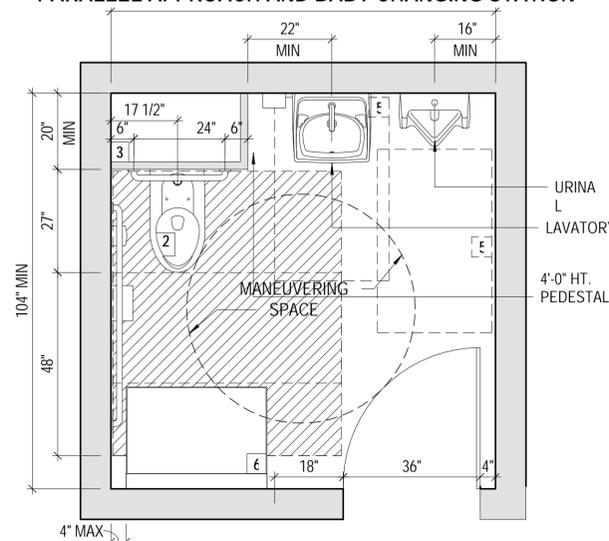


C.1 ALL-GENDER - WITH URINAL AND IN-SWINGING DOOR

PLANNING NOTES

- PER 2016 CBC 11B.603.2 OVERLAPPING CLEARANCES A 30"x48" CLEAR FLOOR AREA MUST BE PROVIDED OUTSIDE THE SWING OF THE DOOR.
- MIN DIMENSIONS ARE DEPENDENT UPON THE TYPE AND DEPTH OF WALL HUNG TOILET AND LAVATORY SELECTED. ASSUMES A 27"D TOILET, 18 1/4" D BY 20"W LAVATORY.
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- THE ROOM LAYOUT RELIES ON AN 11B 304.8 60" DIAM OR A "T" SHAPED MANEUVERING AREA AND PROVIDES, UON, AN ADDITIONAL 1" MIN TOLERANCE IN THE WIDTH AND DEPTH DIMENSIONS OF THE ROOM.
- 30" X 48" CLEAR FLOOR AREA MUST BE PROVIDED AT LAVATORY.

C2. SINGLE USER - MANEUVERING CLEARANCE FOR PARALLEL APPROACH AND BABY CHANGING STATION



C.2 ALL-GENDER - WITH URINAL AND IN-SWINGING DOOR

PLANNING NOTES

- PER 2016 CBC 11B.603.2 OVERLAPPING CLEARANCES. A 30"x48" CLEAR FLOOR AREA MUST BE PROVIDED OUTSIDE THE SWING OF THE DOOR.
- MIN DIMENSIONS ARE DEPENDENT UPON THE TYPE AND DEPTH OF WALL HUNG TOILET AND LAVATORY SELECTED. ASSUMES A 27"D TOILET, 18 1/4" D BY 20" W LAVATORY AND 19" W URINAL
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- THE BABY-CHANGE UNIT IS 4" DEEP WHEN FOLDED, 36" MAX WIDTH, AND 4" MIN CLEARANCE TO ADJACENT WALL AND 18" MIN ADJACENT DOOR.
- A LAVATORY ALCOVE THAT IS DEEPER THAN ITS FIXTURE, PERMITS THE TOILET TO HAVE A 24" REAR GRAB BAR AND THE CLEARANCES FOR TOILET AND LAVATORY TO OVERLAP.
- IF THE ROOM HAS AN EXTERIOR DOOR, AN ADDITIONAL 6" MIN IS REQUIRED FOR THE WIDTH OF THE ROOM TO PROVIDE A 24" STRIKE-SIDE CLEARANCE
- THE ROOM LAYOUT RELIES ON AN 11B 304.2 60" DIAM MANEUVERING AREA AND PROVIDES 1" MIN TOLERANCE IN THE WIDTH AND DEPTH DIMENSIONS OF THE ROOM UON.



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 Julia Laue - Principal Architect / Division Manager
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 San Francisco, CA Fax (415)557-4701
 94102-6028 (415)557-4700

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Consultant _____

Issue Date _____

| No. | Date | Revisions |
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 Proj. Arch. _____
 Drawn _____ Author _____
 Checked by _____ Checker _____

Drawing Title _____

DESIGN GUIDE FOR - SINGLE USER- ALL GENDER RESTROOM

Sheet No. _____

Project No. _____
REFERENCE ONLY - 2
 Scale: _____
 Project Number _____





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 Suite 4100 Fax (415)557-4701 (415)267-4700

Project

5th and Bryant Navigation Center

Consultant

Issue
 Date: 3/23/2018

Bureau Mgr.
 Section Mgr.
 Technical Mgr.

Proj. Mgr. CO
 Proj. Arch. N/A
 Drawn EL
 Checked by CY

Drawing Title

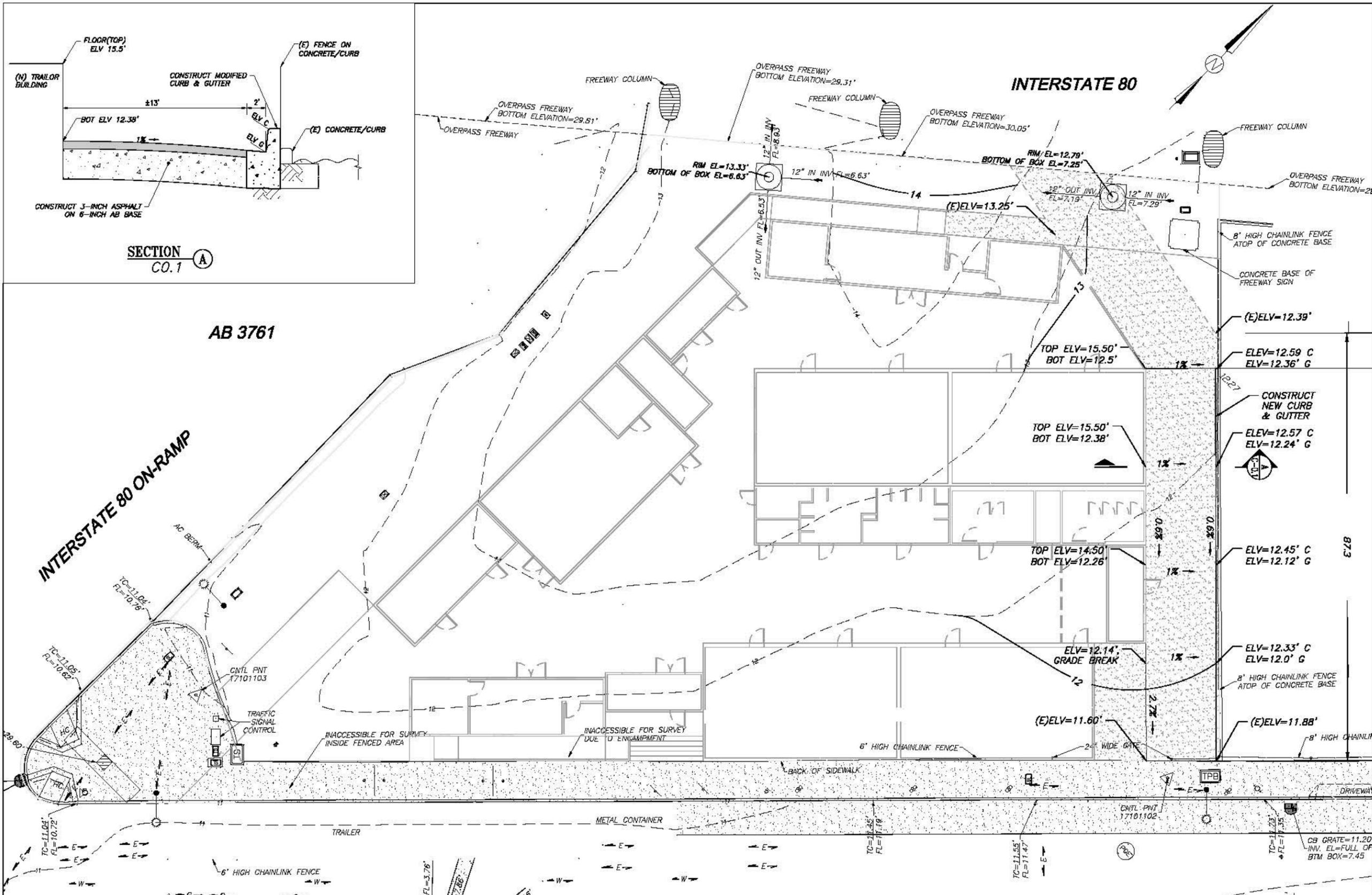
SITE PLAN

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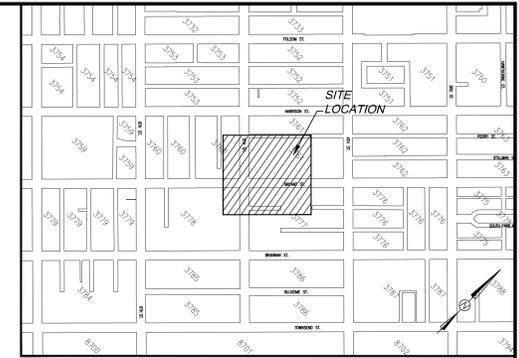
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Scale: AS INDICATED

Project No. 8722A



**TOPOGRAPHIC SURVEY OF CALTRANS SITE
LOCATED AT THE INTERSECTION OF 5th STREET & BRYANT STREET
(PORTION OF APN 3761, LOT 062)
PREPARED FOR
SAN FRANCISCO PUBLIC WORKS
BUILDING, DESIGN AND CONSTRUCTION DIVISION**



VICINITY MAP
SCALE: NOT TO SCALE

LEGEND

- STORM DRAIN INLET
- WATER PULL BOX
- WATER METER
- PULL BOX TV
- PULL BOX ELECTRIC
- TELEPHONE PULL BOX
- TRAFFIC SIGNAL PULL BOX
- STREET LIGHT PULL BOX
- SANITARY SEWER MANHOLE
- P&G&E MANHOLE
- CISTERN MANHOLE
- PARKING METER
- WATER VALVE
- GAS VALVE
- STREET LIGHT POLE
- TRAFFIC SIGNAL POLE
- PEDESTRIAN POLE
- SURVEY CONTROL POINT
- BENCH MARK
- USA ELECTRIC PAINT MARK
- USA WATER PAINT MARK
- USA GAS PAINT MARK
- USA TELEPHONE PAINT MARK
- HIGHWAY RIGHT OF WAY
- CONCRETE
- MAJOR CONTOUR
- MINOR CONTOUR

ABBREVIATIONS

- | | | | |
|----------|------------------|-------|---------------------------|
| AC | ASPHALT CONCRETE | GR | GRATE |
| AB | ASSESSOR'S BLOCK | GRD | GROUND |
| BSW | BACK OF SIDEWALK | HP | HIGH POINT |
| CB | CATCH BASIN | INV | INVERT |
| CL | CENTER LINE | JP | JOINT POLE |
| CONC | CONCRETE | N/A | NOT APPLICABLE |
| CNTL PNT | CONTROL POINT | NTS | NOT TO SCALE |
| DWY | DRIVEWAY | ROW | RIGHT OF WAY |
| EP | EDGE OF PAVEMENT | SS | SANITARY SEWER |
| EL | ELEVATION | TC | TOP OF CURB |
| FH | FIRE HYDRANT | TEL | TELEPHONE |
| FL | FLOWLINE | TRANS | TRANSFORMER |
| HC | HANDICAP RAMP | USA | UNDERGROUND SERVICE ALERT |



CONTROL POINT LOCATIONS MAP
SCALE: NOT TO SCALE

| SURVEY CONTROL POINTS TABLE | | | | |
|-----------------------------|------------|-------------|-----------|--|
| POINT # | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 387 | 88421.2000 | 172237.5700 | 10.930 | RIVET/WASHER |
| 436 | 88703.5000 | 169942.0700 | 16.170 | FND SCREW @ HCR |
| 437 | 88314.1700 | 170331.2000 | 14.910 | FND SCREW @ HCR |
| 10099 | 90057.4580 | 168486.3900 | 44.659 | SURVPT_FND_ANCHOR SCREW VD13 BENCHMARK |
| 10100 | 90514.2190 | 168936.2080 | 45.167 | SURVPT_FND_BRASS_DISK VD13 BENCHMARK |
| 10101 | 90888.8920 | 169319.0630 | 39.787 | SURVPT_FND_BRASS_DISK VD13 BENCHMARK |
| 16106111 | 88237.8600 | 171135.1600 | 11.830 | SET CUT X @ BSW |
| 16106112 | 87830.5100 | 171647.0100 | 11.140 | SET CUT X |
| 16106113 | 88030.0200 | 171952.6100 | 11.100 | SET CUT X @ BSW |
| 17101101 | 88815.5012 | 171844.3773 | 11.001 | SURVPT_SET_+ "CUT" |
| 17101102 | 89111.9099 | 172033.3795 | 11.719 | SURVPT_SET_+ "CUT" |
| 17101103 | 88984.1909 | 171880.2882 | 11.107 | SURVPT_SET_+ "CUT" |
| 17101104 | 88510.5723 | 171538.1740 | 10.297 | SURVPT_SET_+ "CUT" |
| 17101105 | 89175.1470 | 171854.5197 | 13.067 | SURVPT_SET_MAG_NAIL |
| 17101106 | 89253.5233 | 171874.4098 | 15.472 | SURVPT_SET_HUB&TACK |
| 1610612601 | 88236.7823 | 171147.3066 | 11.511 | SURVPT_FND_FND BRASS DISK BM-0069 |
| 1710110770 | 89060.4742 | 172090.0779 | 11.935 | SURVPT_SET_SCRIBED "+_TEMP" |

BASIS OF SURVEY: PROJECT DATUMS, REFERENCE SYSTEMS & PROJECTION

DATUM: NORTH AMERICAN DATUM OF 1983: NAD83 (2011) 2010.00 EPOCH

REFERENCE NETWORK: "CCSF-2013 HPN" (HIGH PRECISION NETWORK PER RECORD OF SURVEY #8080)

PROJECTION:
THE PLANE COORDINATES ARE BASED ON A LOCAL GRID COORDINATE SYSTEM KNOWN AS THE CITY & COUNTY OF SAN FRANCISCO 2013 COORDINATE SYSTEM (CCSF-CS13). CCSF-CS13 IS A LOW DISTORTION TRANSVERSE MERCATOR PROJECTION WITHIN THE CITY. THE COMBINED GRID FACTOR IS GENERALLY LESS THAN 1/100,000. THE ORIGIN OF COORDINATES AND CENTRAL MERIDIAN ARE LOCATED NEAR THE CENTER OF THE CITY. SEE RECORD OF SURVEY #8080 RECORDED IN BOOK EE OF SURVEY MAPS, PAGE 147-157, S.F.C.R. AND THE CCSF PW WEB SITE (<http://sfpublishing.org/ccsf-geodetic-network>) FOR PROJECTION PARAMETERS.

HORIZONTAL CONTROL:
THE HORIZONTAL DATUM WAS RECOVERED FROM A TRAVERSE THROUGH 16106111, 16106112 AND 16106113 (SHOWN HEREON) BASED ON HPN OR HPND POINTS 387, 436 AND 437 SHOWN AND DESCRIBED ON THE CCSF PW WEB SITE (<http://sfpublishing.org/ccsf-geodetic-network>).

VERTICAL DATUM: "CCSF 2013 NAVD88 VERTICAL DATUM" (CCSF-VD13)

REFERENCE NETWORK: "CCSF 2013 HIGH PRECISION LEVELING NETWORK"

VERTICAL CONTROL:
THE VERTICAL DATUM WAS RECOVERED BASED ON BENCHMARKS BM 11789, BM 10099, BM 10100, AND BM 10101, SHOWN HEREON AND DESCRIBED ON THE CCSF PW WEB SITE (<http://sfpublishing.org/ccsf-geodetic-network>).

GENERAL NOTES:

- ALL DISTANCES WITHIN THE DRAWING ARE BASED UPON THE US SURVEY FOOT AND DECIMALS THEREOF AND ARE GROUND DISTANCES.
- SINCE A TITLE INSURANCE POLICY WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY, THE SURVEYOR IS NOT RESPONSIBLE FOR THE OMISSION HEREON OF ANY FACTS SUCH AS, BUT NOT LIMITED TO, THE EXISTENCE OF EASEMENTS, WHICH ARE NORMALLY DISCLOSED BY SUCH POLICY.
- ABOVE GROUND EVIDENCE OF UTILITIES WAS FIELD LOCATED AND IS SHOWN ON THIS SHEET. SUBSURFACE UTILITY INFORMATION WAS NOT PROVIDED. VERIFICATION OF THIS INFORMATION SHOULD BE CONSIDERED MANDATORY IF TO BE USED FOR DESIGN PURPOSES.
- ALL CITY MONUMENTS SHOWN HEREON MUST BE PROTECTED PER STATE LAND SURVEYOR ACT AND CITY & COUNTY STANDARDS SPECIFICATIONS SECTION 107.09. PLEASE CALL SURVEYS AT (415) 554-5827 TO REPORT ANY MONUMENTS IN DANGER OF DESTRUCTION OR REMOVAL.

CITY AND COUNTY SURVEYOR'S STATEMENT:
THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF SAN FRANCISCO PUBLIC WORKS - BUILDING, DESIGN AND CONSTRUCTION DIVISION ON NOVEMBER 29, 2017.

BRUCE R. STORRS, CITY AND COUNTY SURVEYOR
CITY AND COUNTY OF SAN FRANCISCO,



BY: _____ DATE: _____
BRUCE R. STORRS L.S. 6914
MY LICENSE EXPIRES: SEPTEMBER 30, 2019

| REV | BY | DATE | REVISIONS |
|-----|----|---------|---------------------------------------|
| 1 | WB | 2-07-18 | Additional topo survey under overpass |



BUREAU OF STREET USE AND MAPPING
SAN FRANCISCO PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

PHONE: 415.554.5827
FAX: 415.554.7940

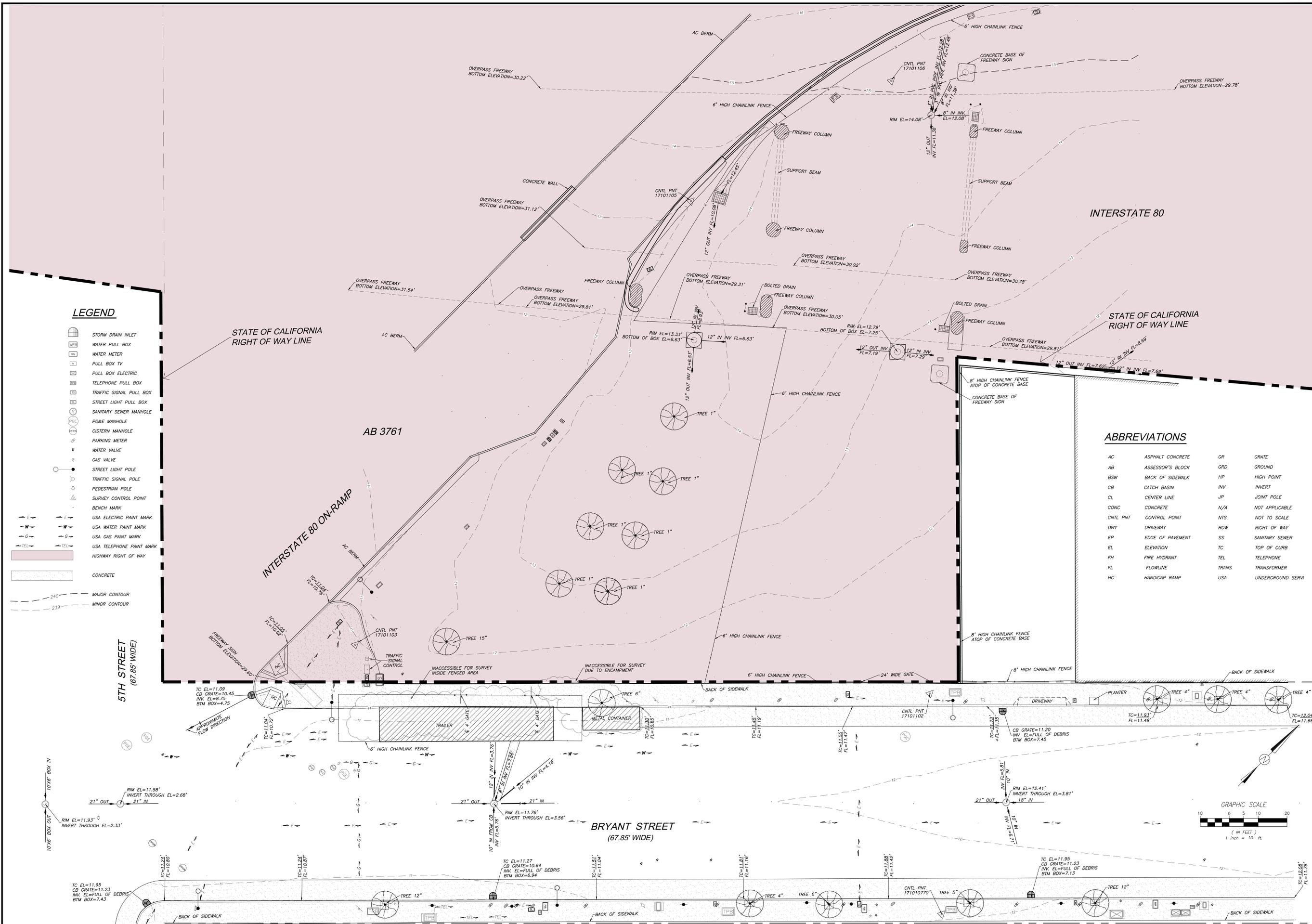
SURVEYED BY: JH
DRAWN BY: YH
CHECKED BY: ML
APPROVED BY: ML



TOPO DATE: 12/05/2017
AERIAL DATE: NONE
AB: AB 3761, LOT 062

**TOPOGRAPHIC SURVEY OF CALTRANS SITE AT
5TH STREET AND BRYANT STREET**
PREPARED FOR
SAN FRANCISCO PUBLIC WORKS - BUILDING, DESIGN AND CONSTRUCTION

JOB NO.: 2017-101
ISSUE DATE: 02/05/2018
SCALE: 1"=10'
SHEET 1 OF 2



LEGEND

- STORM DRAIN INLET
- WATER PULL BOX
- WATER METER
- PULL BOX TV
- PULL BOX ELECTRIC
- TELEPHONE PULL BOX
- TRAFFIC SIGNAL PULL BOX
- STREET LIGHT PULL BOX
- SANITARY SEWER MANHOLE
- P&G MANHOLE
- CISTERN MANHOLE
- PARKING METER
- WATER VALVE
- GAS VALVE
- STREET LIGHT POLE
- TRAFFIC SIGNAL POLE
- PEDESTRIAN POLE
- SURVEY CONTROL POINT
- BENCH MARK
- USA ELECTRIC PAINT MARK
- USA WATER PAINT MARK
- USA GAS PAINT MARK
- USA TELEPHONE PAINT MARK
- HIGHWAY RIGHT OF WAY
- CONCRETE
- MAJOR CONTOUR
- MINOR CONTOUR

STATE OF CALIFORNIA
RIGHT OF WAY LINE

AB 3761

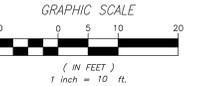
INTERSTATE 80 ON-RAMP

5TH STREET
(67.85' WIDE)

BRYANT STREET
(67.85' WIDE)

ABBREVIATIONS

| | | | |
|----------|------------------|-------|-------------------|
| AC | ASPHALT CONCRETE | GR | GRATE |
| AB | ASSESSOR'S BLOCK | GRD | GROUND |
| BSW | BACK OF SIDEWALK | HP | HIGH POINT |
| CB | CATCH BASIN | INV | INVERT |
| CL | CENTER LINE | JP | JOINT POLE |
| CONC | CONCRETE | N/A | NOT APPLICABLE |
| CNTL PNT | CONTROL POINT | NTS | NOT TO SCALE |
| DWY | DRIVEWAY | ROW | RIGHT OF WAY |
| EP | EDGE OF PAVEMENT | SS | SANITARY SEWER |
| EL | ELEVATION | TC | TOP OF CURB |
| FH | FIRE HYDRANT | TEL | TELEPHONE |
| FL | FLOWLINE | TRANS | TRANSFORMER |
| HC | HANDICAP RAMP | USA | UNDERGROUND SERVI |



| REV | BY | DATE | REVISIONS |
|-----|----|---------|---|
| 1 | wb | 2-07-18 | Additional topo survey under highway overpass |



BUREAU OF STREET USE AND MAPPING
SAN FRANCISCO PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

SURVEYED BY: JH
DRAWN BY: YW
CHECKED BY: ML
APPROVED BY: ML

TOPO DATE: 12/05/2017
AERIAL DATE: NONE
AB: AB 3761, LOT 062

TOPOGRAPHIC SURVEY OF CALTRANS SITE AT 5TH STREET AND BRYANT STREET
PREPARED FOR
CITY AND COUNTY OF SAN FRANCISCO PUBLIC WORKS INFRASTRUCTURE DESIGN AND CONSTRUCTION

JOB NO.: 2017-101
ISSUE DATE: 02/05/2018
SCALE: 1"=10'
SHEET 2 OF 2

BLADKVELL Feb 07, 2018 - 1850km J:\Survey\PROJECTS\2017\025\027-101\5th-Bryant\Navigation\Center\DWG\Working\17-101_5th-Bryant_Navigation_Center.dwg

LEGEND

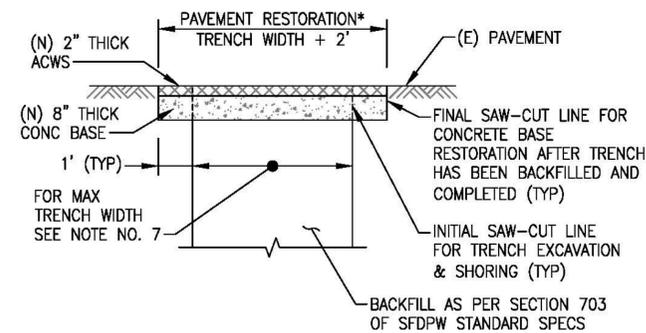
| | |
|------------------|--|
| — SIZE & TYPE — | EXISTING SEWER OR CULVERT |
| ○, □ | EXISTING MH |
| □, ▨ | EXISTING CB, SWI |
| — — — — — | EXISTING SIDE SEWER AND FRESH AIR INLET |
| — W — — — — — | EXISTING WATER MAIN |
| — AWSS — — — — — | EXISTING AUXILIARY WATER SUPPLY SYSTEM |
| — E — — — — — | EXISTING PG&E ELECTRIC |
| — G — — — — — | EXISTING PG&E GAS |
| — SIZE & TYPE — | NEW SEWER OR CULVERT |
| □ | NEW SS PER SFDPW STD PLAN 87,196 |
| + | NEW 6" OR 8" SS CONNECTION TO MAIN SEWER |

ABBREVIATIONS

| | |
|----------|--|
| ± | PLUS OR MINUS |
| APPROX | APPROXIMATE |
| AWSS | AUXILIARY WATER SUPPLY SYSTEM |
| CB | CATCHBASIN |
| CONC | CONCRETE |
| DIA OR ∅ | DIAMETER |
| DWG | DRAWING |
| E | EAST |
| (E) | EXISTING |
| EL | ELEVATION |
| ID | INSIDE DIAMETER |
| INV | INVERT |
| LF | LINEAR FEET |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| N | NORTH |
| (N) | NEW |
| NIC | NOT IN CONTRACT |
| NO. | NUMBER |
| NTS | NOT TO SCALE |
| OD | OUTSIDE DIAMETER |
| ℙ | PROPERTY LINE |
| ROW | RIGHT OF WAY |
| S | SOUTH |
| SF | SQUARE FEET |
| S.F. | SAN FRANCISCO |
| SFDPW | SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS |
| SL | SLOPE |
| SS | SIDE SEWER |
| ST | STREET |
| STD | STANDARD |
| (TYP) | TYPICAL |
| VERT | VERTICAL |
| VCP | VITRIFIED CLAY PIPE |
| W | WEST |

GENERAL NOTES

- NUMBER AND LOCATIONS OF SIDE SEWER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY SIDE SEWER CONNECTIONS IN THE FIELD.
- ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE.
- ELEVATIONS ARE IN REFERENCE TO S.F. CITY DATUM.
- IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
- AT THE TIME THIS CONTRACT IS BID, THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT FROM SFDPW-STREET CONSTRUCTION COORDINATION CENTER LOCATED AT 1155 MARKET STREET, 3RD FLOOR.
- MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS 1.5 FEET ON EACH SIDE.
- ALL NEW VCP AND RCP MAIN SEWERS SHALL BE CONSTRUCTED ON CRUSHED ROCK BEDDING PER DETAIL SHOWN BELOW UNLESS OTHERWISE NOTED.
- PIPE LENGTH SHOWN IN PROFILE INDICATES HORIZONTAL DISTANCE EXCLUDING INSIDE DIMENSION OF EACH SEWER MANHOLE/STRUCTURE.
- AFTER SEWER WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL CLEAN ALL CATCHBASINS SHOWN ON SW-DRAWINGS AND REPLACE CAST IRON WATER TRAP AS DIRECTED BY THE CITY REPRESENTATIVE.
- CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT. CITY MONUMENTS LOCATED WITHIN 10 FEET OF TRENCH MUST BE REFERENCED PRIOR TO ANY DEMOLITION, AND A CORNER RECORD MUST BE FILED WITH THE COUNTY SURVEYOR'S OFFICE BY CONTACTING BUREAU OF STREET-USE AND MAPPING AT (415) 554-5829. THE MONUMENTS MUST BE REVISITED AFTER CONSTRUCTION HAS BEEN COMPLETED TO VERIFY THAT NO MOVEMENT HAS OCCURRED. IF MONUMENTS ARE NOT REFERENCED PRIOR TO CONSTRUCTION, THE CITY WILL CHARGE \$10,000 A PIECE TO THE CONTRACTOR FOR REESTABLISHING THE MONUMENT.
- PRIOR TO ABANDONING EXISTING SEWER FACILITIES, CONTRACTOR SHALL VERIFY THAT THERE ARE NO ACTIVE CONNECTIONS TO THESE FACILITIES. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.
- RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO FINISHED ROADWAY ELEVATIONS.
- CONTRACTOR SHALL VERIFY EXACT DIAMETER AND LENGTH OF EXISTING SEWER TO BE LINED PRIOR TO MANUFACTURING THE LINER.
- SPRAY MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 7 DAYS. FOR SURFACE PREPARATIONS AND ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 33 33 00.
- SIDE SEWER SHALL BE CONNECTED TO THE MAIN AT OR ABOVE THE SPRING LINE UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE.

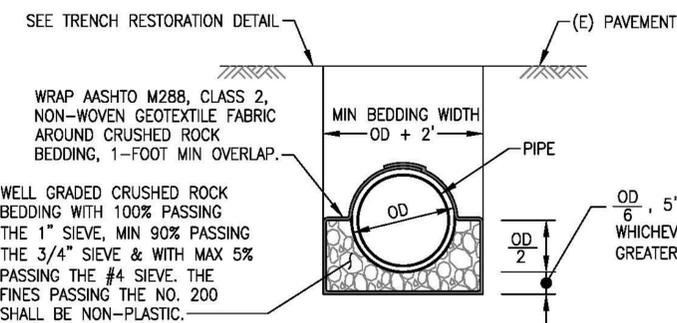


*REFER TO R-DRAWINGS AND PR-DRAWINGS FOR LIMITS OF FINAL ACWS

PER EXCAVATION REGULATIONS, RESTORATION OF CONCRETE BASE MAY BE WIDER THAN SHOWN IN TRENCH RESTORATION DETAIL.

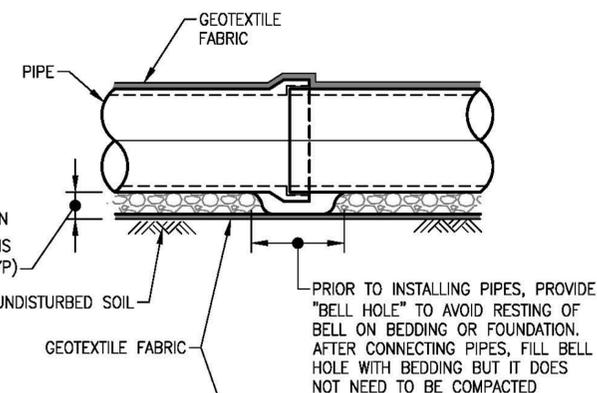
TRENCH RESTORATION DETAIL FOR ASPHALT STREET

SCALE: NONE



BEDDING DETAIL FOR RIGID PIPE

SCALE: NONE



PIPE INSTALLATION

SCALE: NONE

BEDDING IN THIS AREA SHALL BE PLACED IN TWO LAYERS. AFTER 1ST LAYER IS PLACED, COMPACT BEDDING IN HAUNCH AREA BY SHOVEL SLICE METHOD EXCEPT AT THE \"BELL HOLE\" AREA



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager
30 Van Ness Avenue Suite 4100
San Francisco, CA 94102-6028 Fax (415)557-4701
(415)557-4700

Project

5th and Bryant
Navigation Center

680 BRYANT STREET,
SAN FRANCISCO, CA 94107

Consultant

| DESIGN AND ENGINEERING DIVISION | |
|---|------------|
| 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028 | |
| DESIGNED BY: SK | DATE: 3/18 |
| DRAWN BY: SK | DATE: 3/18 |
| CHECKED BY: CW | DATE: 3/18 |
| APPROVED | |
| LESLIE WONG | DATE: |
| SECTION MANAGER: | DATE: |
| IQBAL DHAPA | DATE: |
| DEPUTY DIVISION MANAGER: | DATE: |
| PATRICK RIVERA | DATE: |
| DIVISION MANAGER: | DATE: |

100% BID SET

| No. | Date | Revisions |
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Proj. Arch. _____
Drawn _____
Checked by _____

Drawing Title

LEGEND, ABBREVIATIONS,
GENERAL NOTES AND
DETAILS

Sheet No. **SW-G**

Scale: NTS
Project No. **8722A**



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager
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Suite 4100, Fax (415)557-4701, (415)557-4700

Project _____

5th and Bryant
Navigation Center

680 BRYANT STREET,
SAN FRANCISCO, CA 94107

Consultant _____

DESIGN AND ENGINEERING
DIVISION

30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102-6028

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|--------------|----|-------|------|
| DESIGNED BY: | SK | DATE: | 3/18 |
| DRAWN BY: | SK | DATE: | 3/18 |
| CHECKED BY: | CW | DATE: | 3/18 |
| APPROVED | | | |

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|--------------------------|-------|
| LESLEY WONG | DATE: |
| SECTION MANAGER: | DATE: |
| IQBAL D'HAPA | DATE: |
| DEPUTY DIVISION MANAGER: | DATE: |
| PATRICK RIVERA | DATE: |
| DIVISION MANAGER: | DATE: |

100% BID SET

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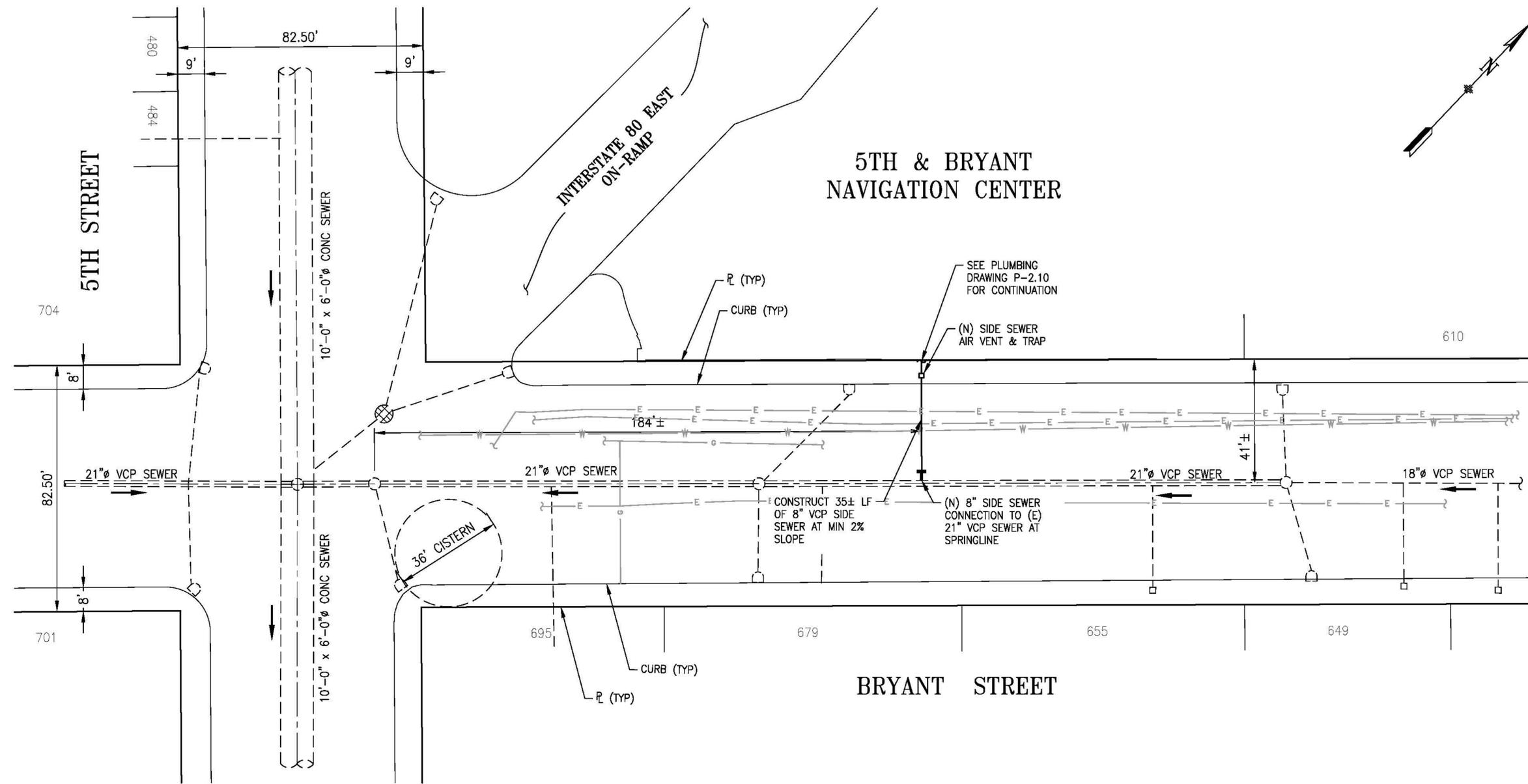
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Proj. Arch. _____
Drawn _____
Checked by _____

Drawing Title _____

DRAINAGE PLAN

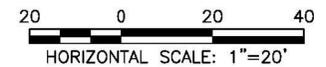
Sheet No. **SW-1.0**

Project No. **8722A**



PLAN

SCALE: 1"=20'



SHEET NOTES

1. CONTRACTOR TO PREPARE SITE FOR INSTALLATION AND SETUP OF TRAILERS PROVIDED BY OTHERS. CONTRACTOR TO COORDINATE WITH TRAILER MANUFACTURER.
2. TRANSFORMER BY PG&E.
3. CONTRACTOR SHALL PREPARE ALL SITE PREPARATION, ROUGH AND FINISH GRADING FOR INSTALLATION OF TRAILERS AND DECKS.
4. ALL SITE WORK INCLUDING SITE FURNISHINGS TO BE BOLTED DOWN IN ACCORDANCE TO ARCHITECTURAL PLANS BY CONTRACTOR.



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 Julia Laue - Principal Architect / Division Manager
 30 Van Ness Avenue Suite 4100
 San Francisco, CA San Francisco, CA
 94102-6028 Fax (415)557-4701
 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

MARCH 23, 2018

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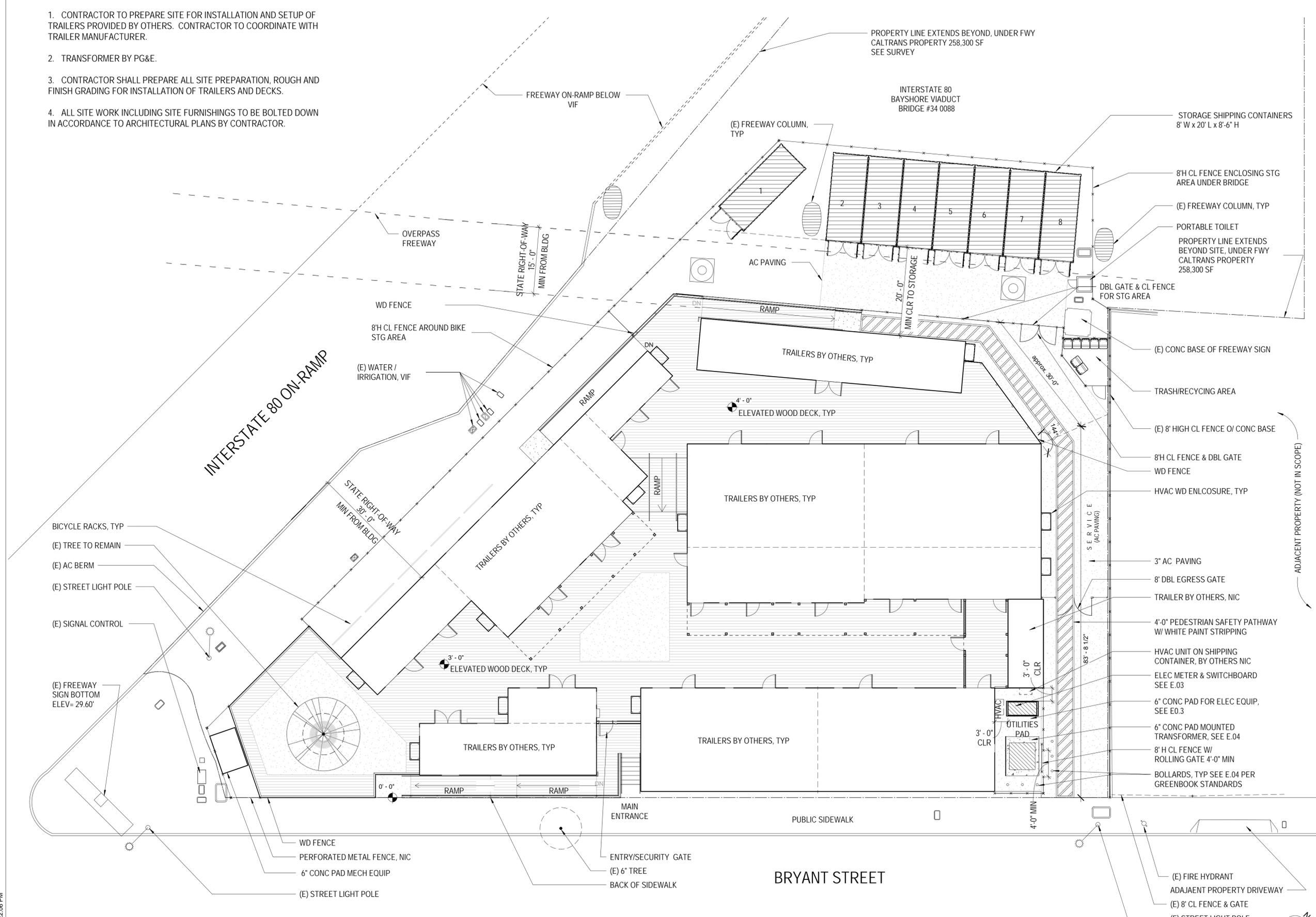
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 Drawn _____ EM, TA, AS
 Checked by _____ W

Drawing Title _____

Sheet No. _____

A 1.2

Scale: 3/32" = 1'-0"
 Project No. _____ Contract ID No.: 1000009419



1 SITE PLAN
 3/32" = 1'-0"

NOT FOR CONSTRUCTION

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SHEET NOTES

1. TURF TO BE SCREWED TO WD DECK.



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager

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Project _____

5th and Bryant Navigation Center

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Consultant _____

MARCH 23, 2018

| No. | Date | Revisions |
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Drawn _____ EM, TA, AS
Checked by _____ W

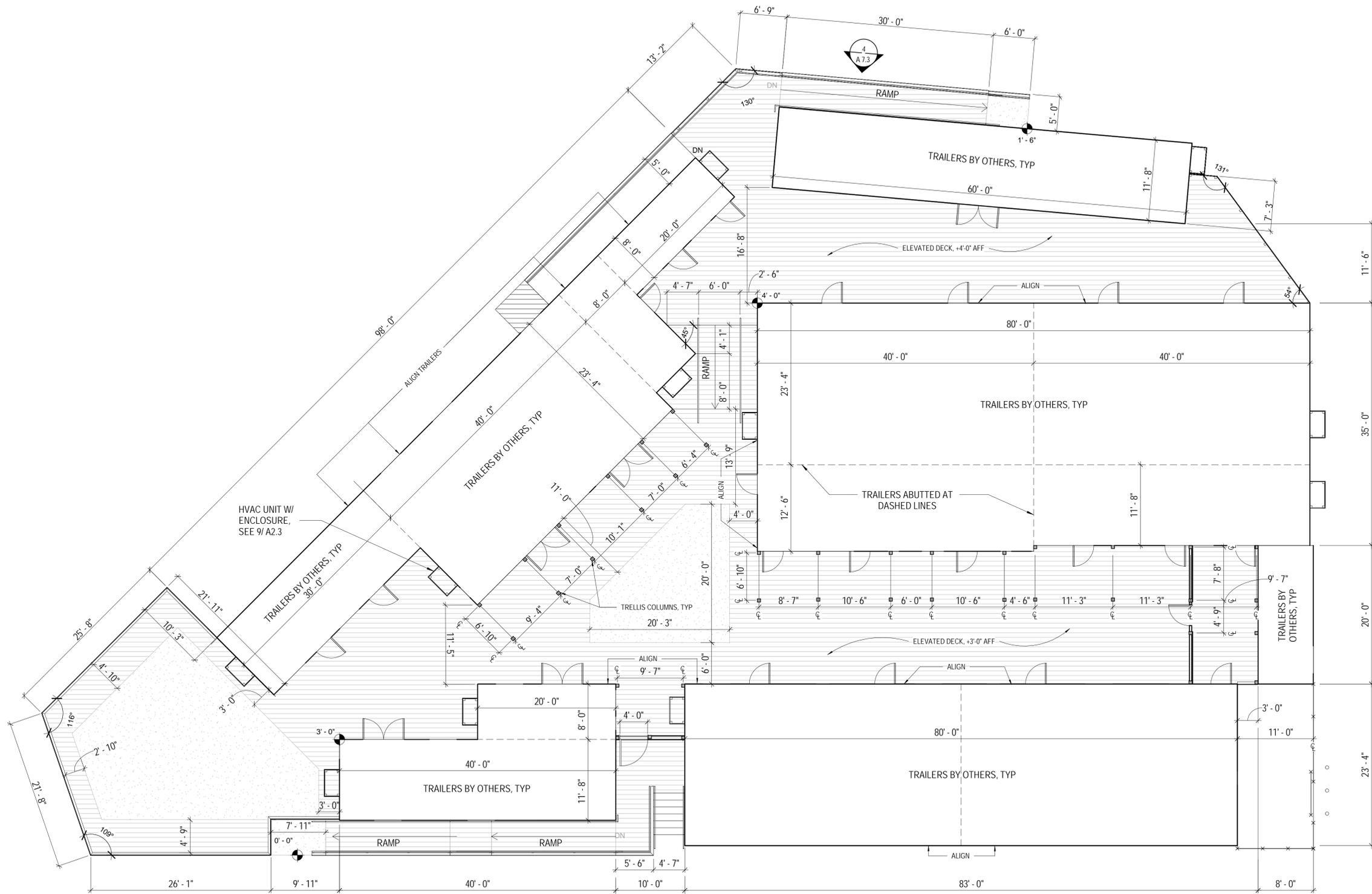
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ELEVATED DECK PLAN

Sheet No. _____

A 1.3

Project No. _____ Contract ID No.: 1000009419



SERVICE
(AC PAVING)

1 ELEVATED DECK PLAN
1/8" = 1'-0"

**NOT FOR
CONSTRUCTION**

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Edgar Lopez - City Architect
Julia Lau - Principal Architect / Division
Manager

30 Van Ness Avenue Suite 4100
San Francisco, CA Fax (415)557-4701
94102-6028 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

SHEET NOTES

1. TRAILERS PROVIDED BY OTHERS, NOT IN CONTRACT (NIC). TRAILERS PROVIDED BY DSM, TURN-KEY UNITS, TRANSPORTED, INSTALLED, SECURED IN PLACE.
2. TRAILERS WILL BE ADJOINED AND FLASHED ON-SITE FOR WATERTIGHT CONNECTIONS BY OTHERS.
3. TRAILERS WILL COME FULLY FINISHED AND INCLUDE, LIGHTING, FIRE-ALARM, FIRE SPRINKLERS, HVAC AND ELECTRICAL EQUIPMENT PROVIDED BY OTHERS. ELECTRICAL HOOKUPS FROM TRAILERS TO PUBLIC UTILITIES, CONTRACTOR RESPONSIBLE.
4. FURNITURE SHOWN ON PLAN IS FOR REFERENCE ONLY. REFER TO FF&E PACKAGE FOR MORE INFORMATION. CONTRACTOR SHALL COORDINATE W/ ARCHITECT FURNITURE ITEMS TO BE BOLTED DOWN.

LEGEND

MARCH 23, 2018

| No. | Date | Revisions |
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Checked by W



Drawing Title _____

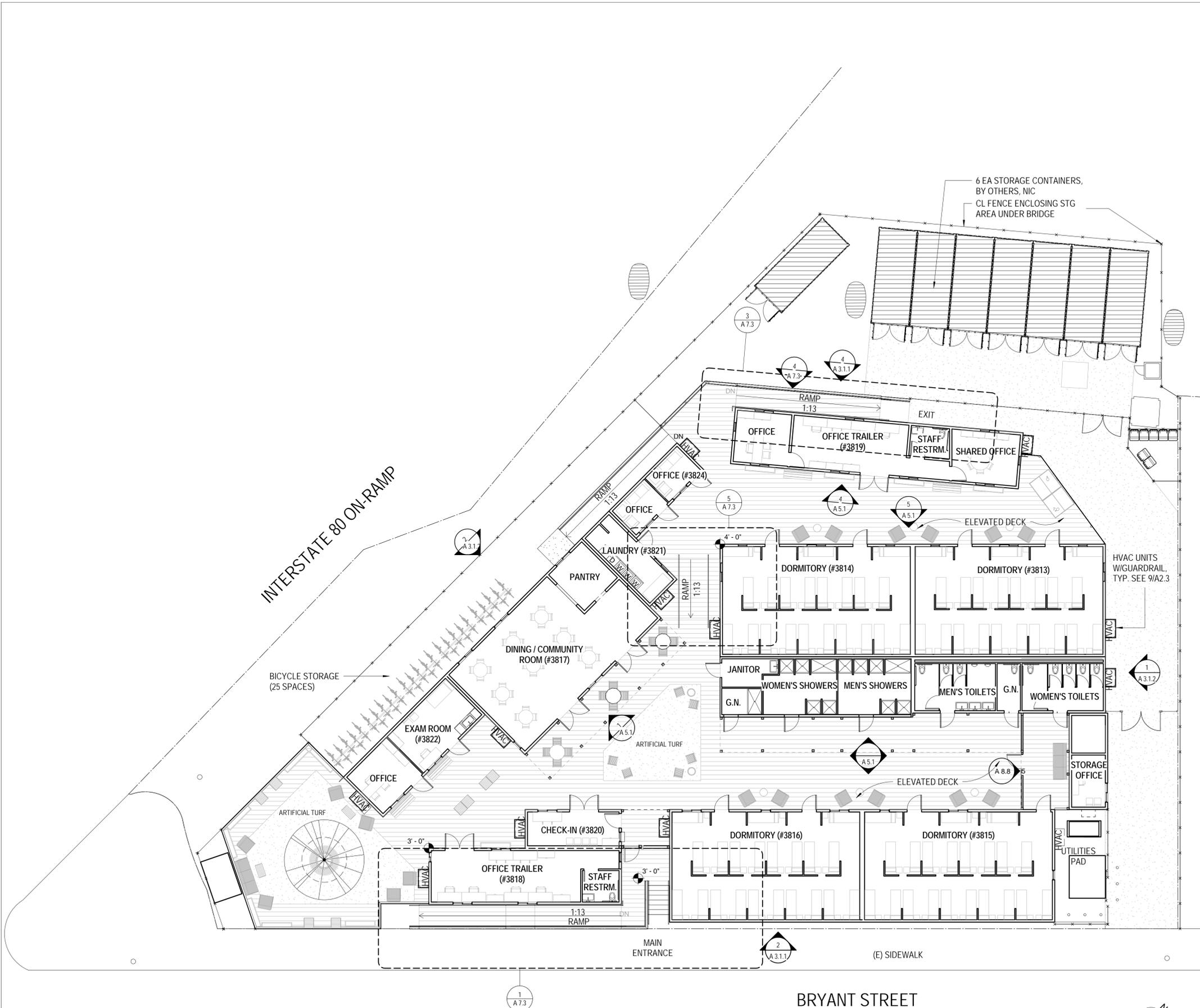
FLOOR PLAN

Sheet No. _____

A 2.0

Scale: 3/32" = 1'-0"

Project No. _____ Contract ID No.: 1000009419

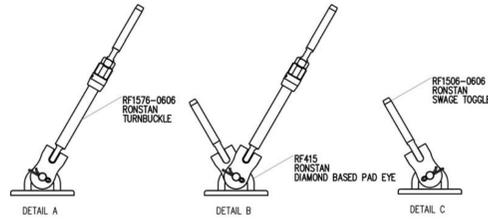


1 FLOOR PLAN

3/32" = 1'-0"

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ALL DIMENSIONS IN MILLIMETERS

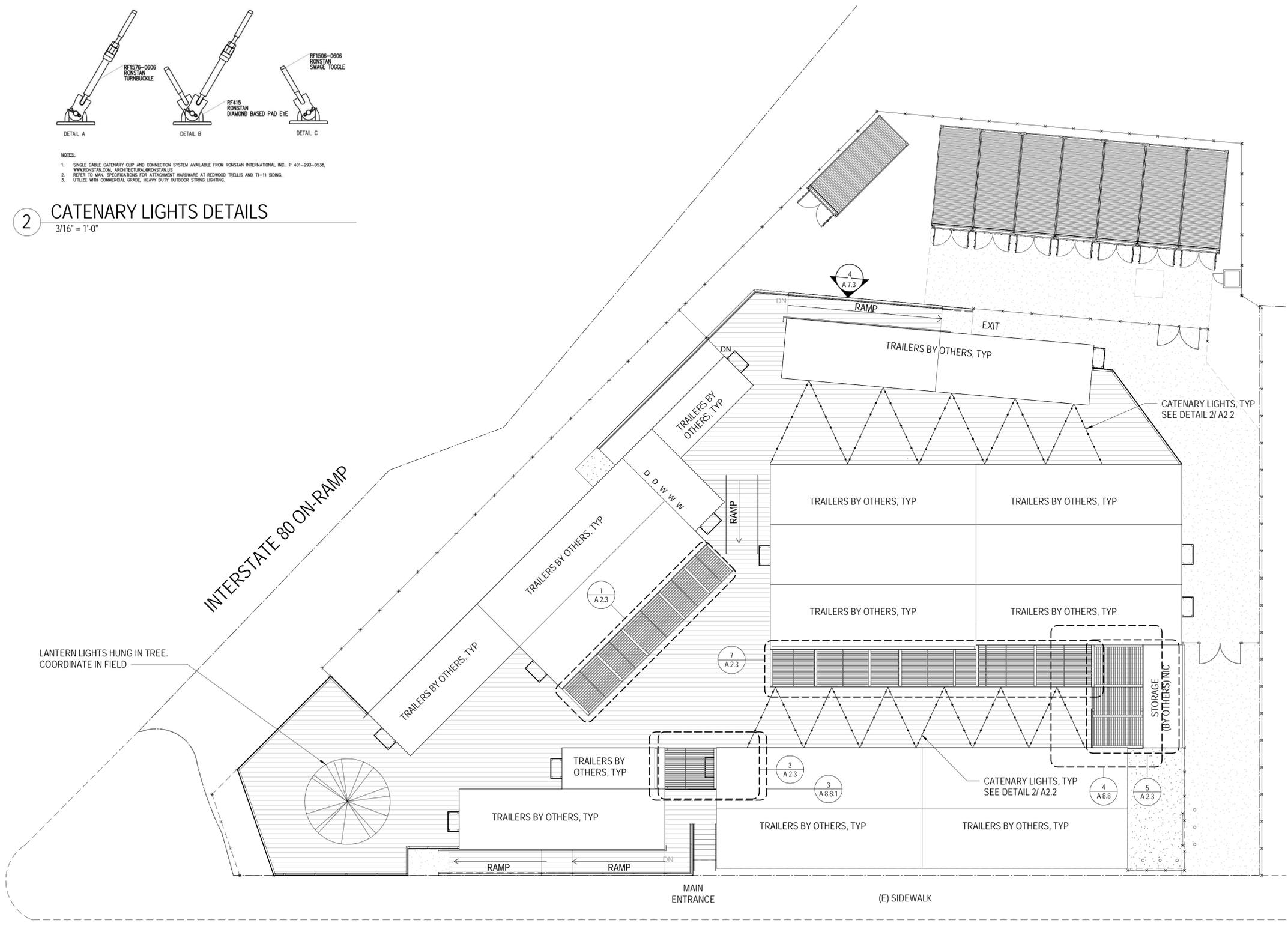


- NOTES:
1. SINGLE CABLE CATENARY CLIP AND CONNECTION SYSTEM AVAILABLE FROM RONSTAN INTERNATIONAL INC. P 401-293-0538. WWW.RONSTAN.COM_ARCHITECTURAL@RONSTAN.COM
 2. REFER TO MAN. SPECIFICATIONS FOR ATTACHMENT HARDWARE AT REDWOOD TRELLIS AND T1-11 SIDING.
 3. UTILIZE WITH COMMERCIAL GRADE, HEAVY DUTY OUTDOOR STRING LIGHTING.

2 CATENARY LIGHTS DETAILS
 3/16" = 1'-0"

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1 ROOF & TRELLIS PLAN
 3/32" = 1'-0"



SHEET NOTES

1. CONTRACTOR RESPONSIBLE FOR COORDINATING GUTTERS AND TRELLIS WHERE THEY OCCUR PER ARCHITECTURAL PLANS.
2. CONTRACTOR TO COORDINATE W/ ARCHITECT IN FIELD FOR HEIGHT AND SPACING OF CATENARY LIGHTS.

BUILDING DESIGN AND CONSTRUCTION DIVISION



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 Julia Laue - Principal Architect / Division Manager
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 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

MARCH 23, 2018

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 Drawn EM, TA, AS
 Checked by W



Drawing Title _____

ROOF & TRELLIS PLAN

Sheet No. _____

A 2.2

Scale: As indicated
 Project No. Contract ID No.: 1000009419



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 (415)557-4700

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Consultant _____

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TRELLIS DETAILS

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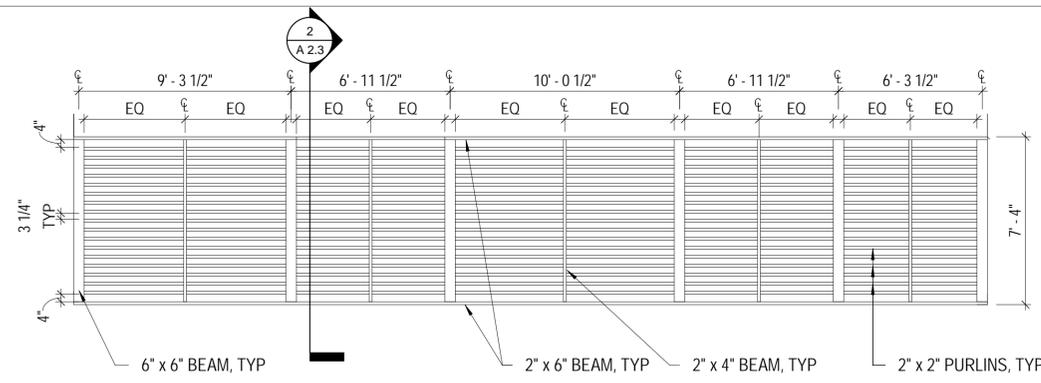
A 2.3

Scale: As indicated

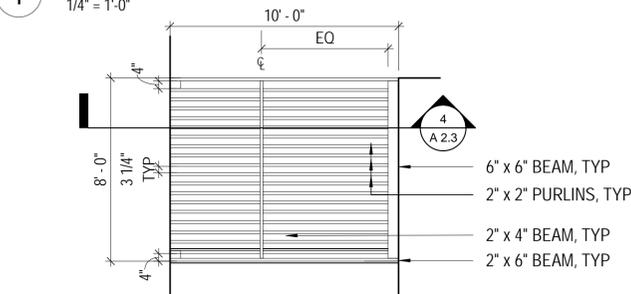
Project No. _____ Contract ID No.: 1000009419

SHEET NOTES

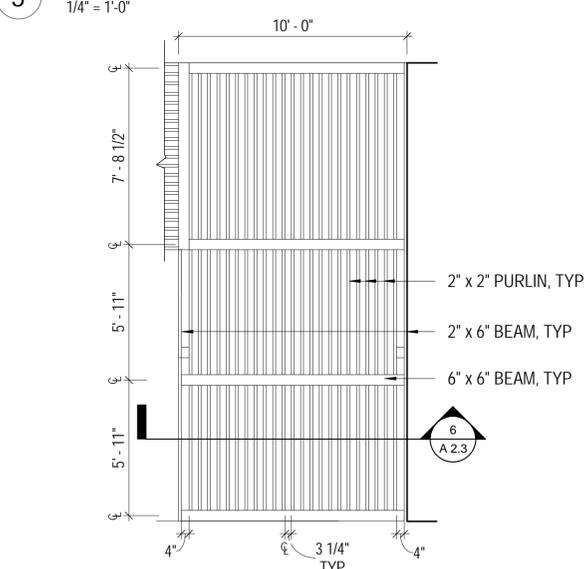
1. ALL TRELLIS WOOD MEMBERS SHALL BE REDWOOD.



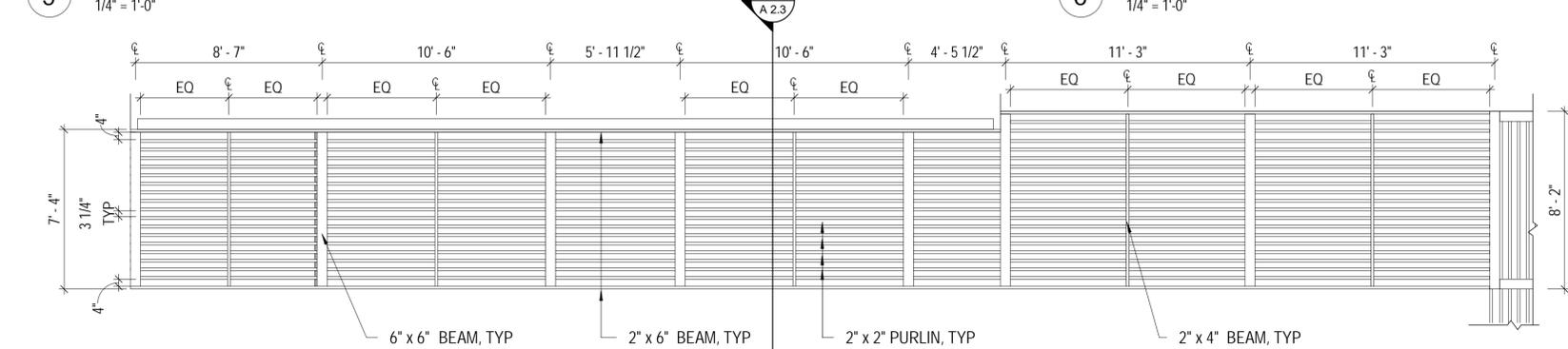
1 TRELLIS PLAN TYPE 1
 1/4" = 1'-0"



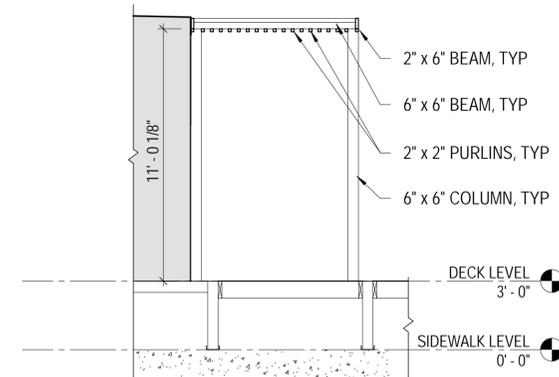
3 TRELLIS PLAN TYPE 2
 1/4" = 1'-0"



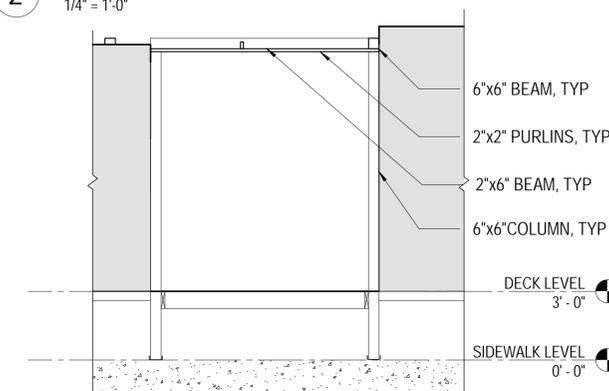
5 TRELLIS PLAN TYPE 3
 1/4" = 1'-0"



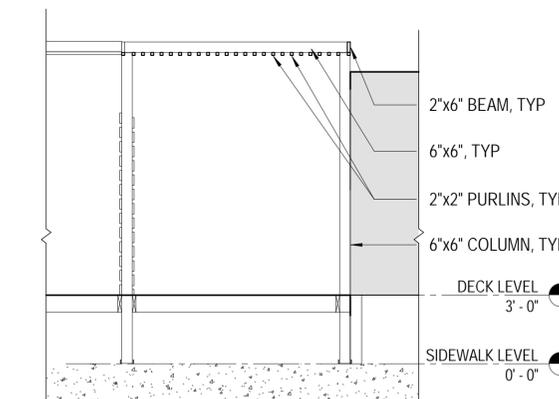
7 TRELLIS PLAN TYPE 4
 1/4" = 1'-0"



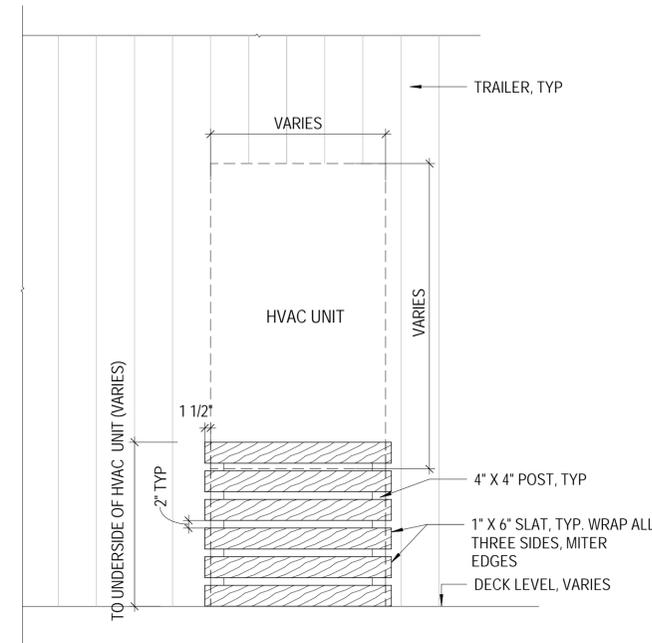
2 TRELLIS SECTION TYPE 1
 1/4" = 1'-0"



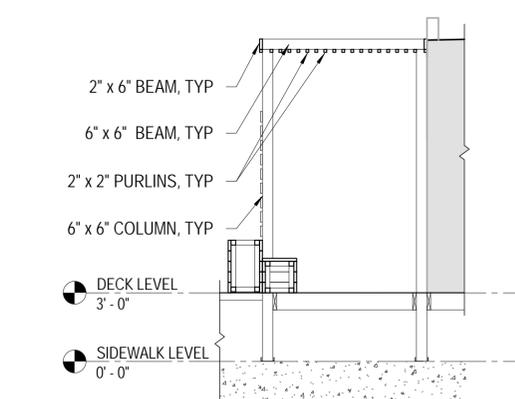
4 TRELLIS SECTION TYPE 2
 1/4" = 1'-0"



6 TRELLIS SECTION TYPE 3
 1/4" = 1'-0"



9 HVAC ENCLOSURE
 1/2" = 1'-0"



8 TRELLIS SECTION TYPE 4
 1/4" = 1'-0"

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DECK FRAMING

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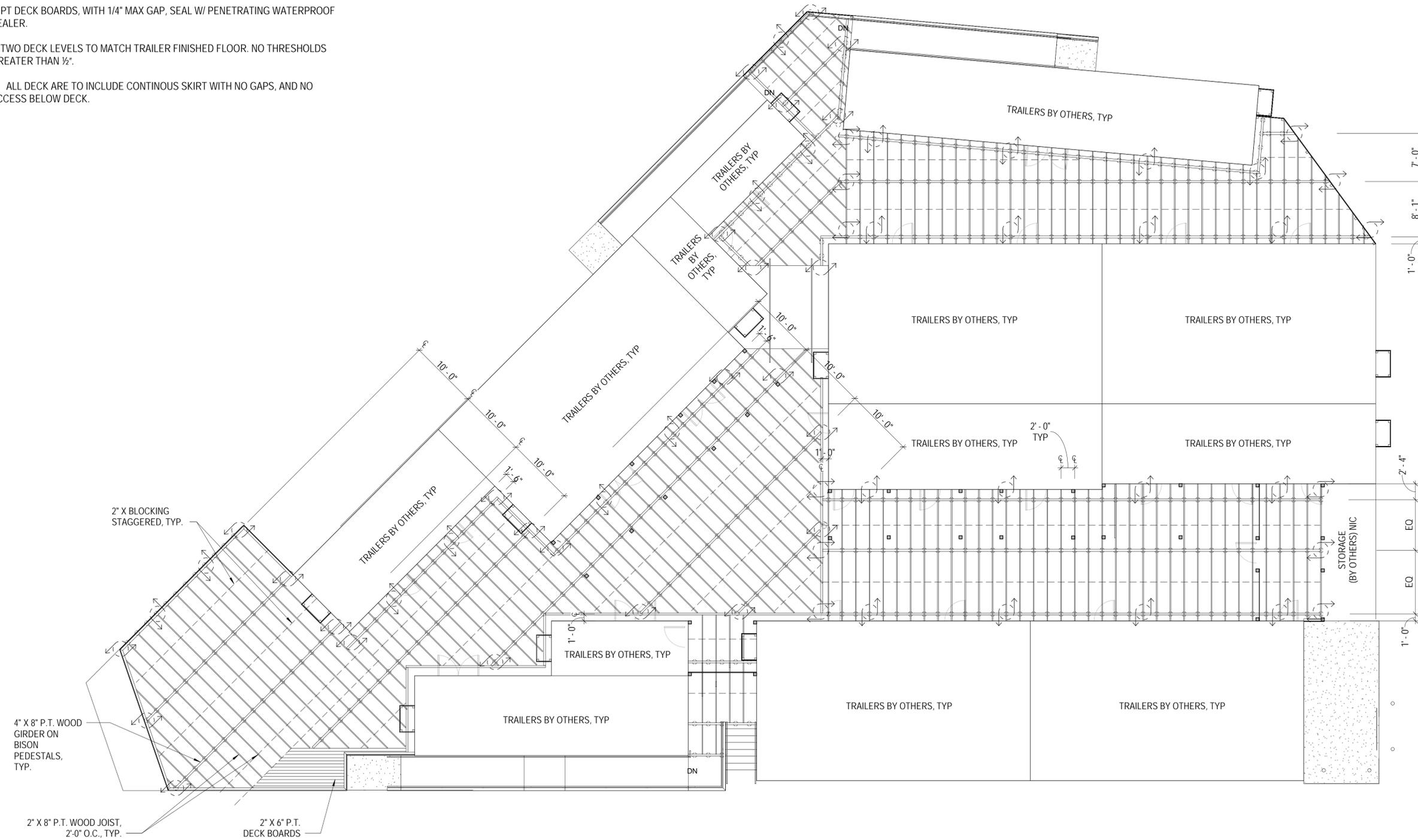
A 2.4.1

Scale: 1/8" = 1'-0"

Project No. _____ Contract ID No.: 1000009419

SHEET NOTES

1. CONTRACTOR RESPONSIBLE FOR DECK AND FRAMING PLAN TO COORDINATE WITH EXISTING SITE CONDITIONS, IN CONJUNCTION WITH TRAILERS, TRELLISES, ALL WATER, SEWER, AND ELECTRICAL SCOPE PER ENGINEERING DRAWINGS. VERIFY ALL CONDITIONS IN FIELD.
2. ARCHITECTURAL PLANS SUGGEST TRAILER LOCATION WHICH MAY NOT RESULT IN THE FINAL INSTALLATION BY OTHERS, DSM- CONTRACTOR RESPONSIBLE FOR COORDINATION AND CONSULTATION WITH ARCHITECT AND ENGINEERS FOR CONDITIONS VARYING FROM ORIGINAL PERMIT SET.
3. ALL DECK AND TRELLISES ARE CONTRACTOR PROVIDED AND INSTALLED.
4. PT DECK BOARDS, WITH 1/4" MAX GAP, SEAL W/ PENETRATING WATERPROOF SEALER.
5. TWO DECK LEVELS TO MATCH TRAILER FINISHED FLOOR. NO THRESHOLDS GREATER THAN 1/2".
6. ALL DECK ARE TO INCLUDE CONTINOUS SKIRT WITH NO GAPS, AND NO ACCESS BELOW DECK.



1 DECK FRAMING PLAN
1/8" = 1'-0"

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DECK FRAMING DETAILS

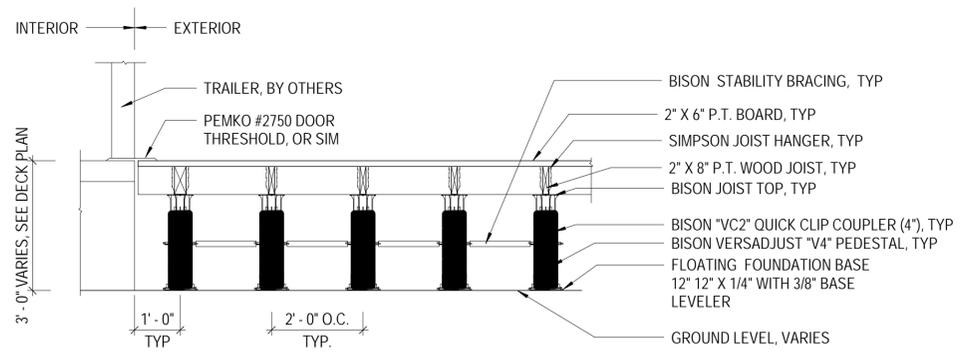
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 Project No. _____ Contract ID No.: 1000009419

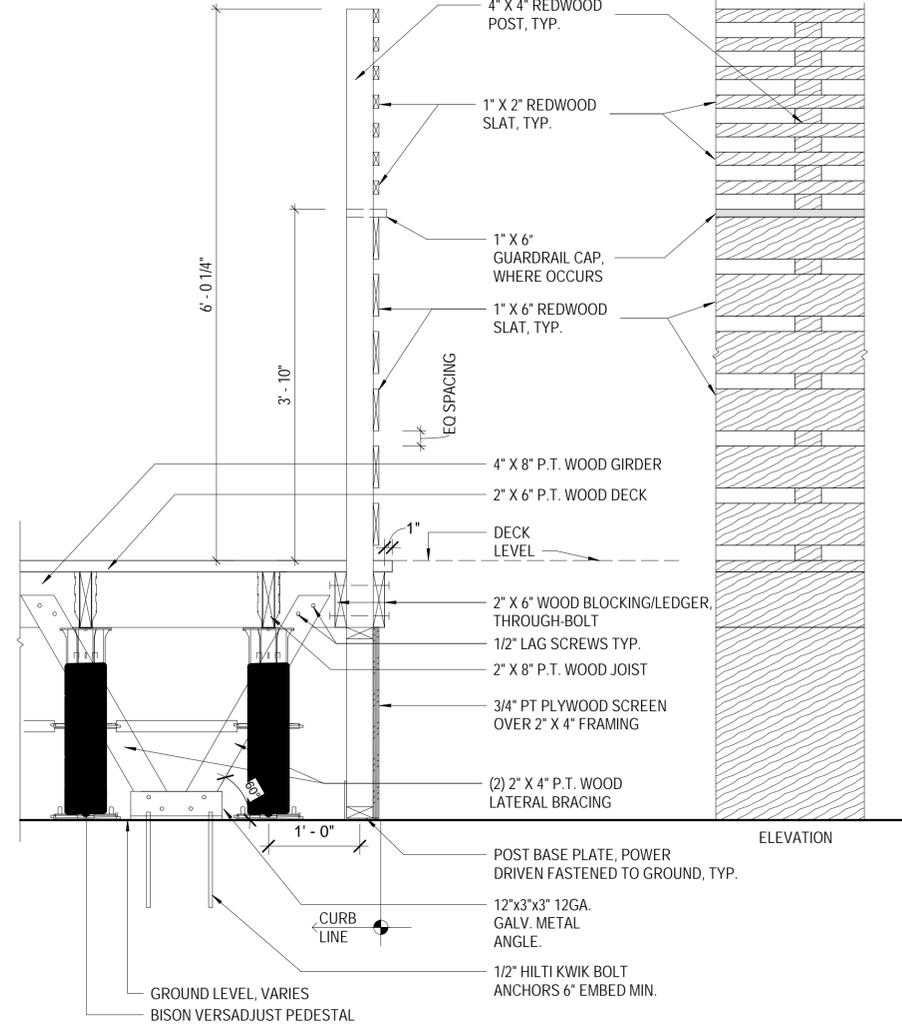
SHEET NOTES

1. BISON FRAMING PEDESTAL: TYPICAL 1'-0" OFFSET FROM TRAILERS WITH DECK. 1'-6" VIF OFFSET FROM TRAILERS WITH TRELIS, CONTRACTOR TO COORDINATE FRAMING WITH TRELIS POSTS.
2. PLYWOOD SCREEN AT PERIMETER SHALL HAVE NO GAPS, TYP.



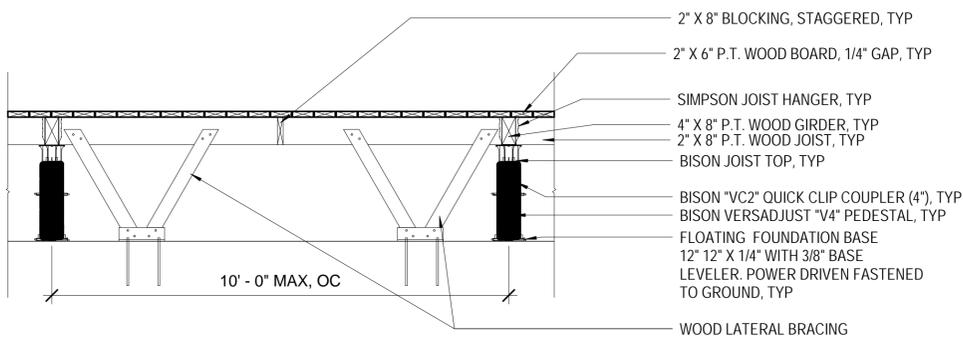
3 DECK FRAMING SECTION & DOOR THRESHOLD DETAIL

1/2" = 1'-0"



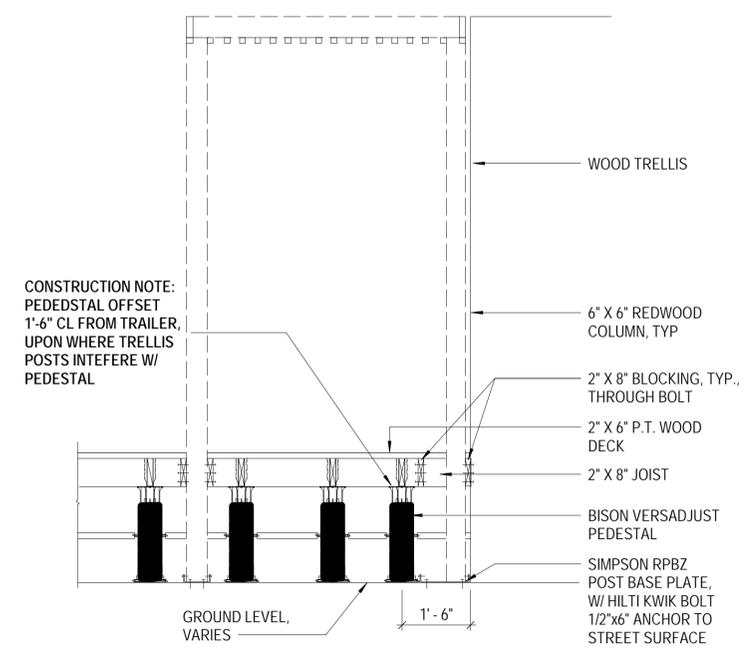
1 DECK RAILING DETAIL

1" = 1'-0"



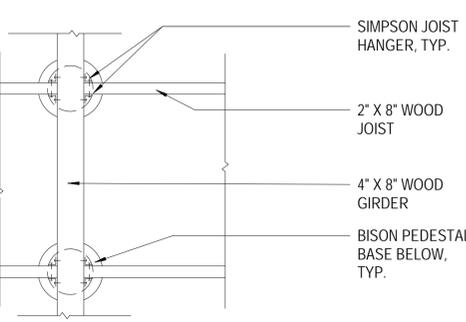
4 WOOD DECK SECTION

1/2" = 1'-0"



2 FRAMING DECK & TRELIS

1/2" = 1'-0"



5 DECK CONNECTION DETAIL

1" = 1'-0"

CONSTRUCTION NOTE:
 PEDESTAL OFFSET
 1'-6" CL FROM TRAILER,
 UPON WHERE TRELIS
 POSTS INTERFERE W/
 PEDESTAL

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EXTERIOR BUILDING ELEVATIONS

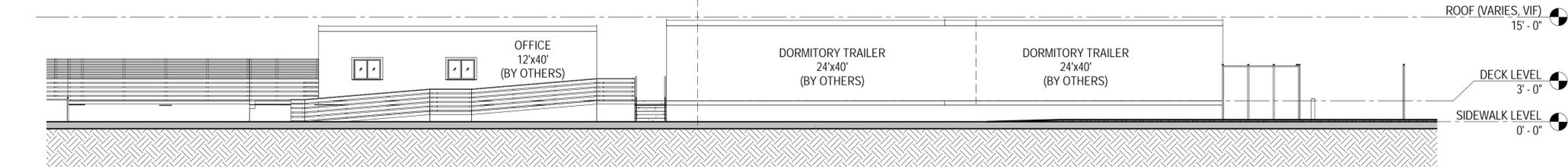
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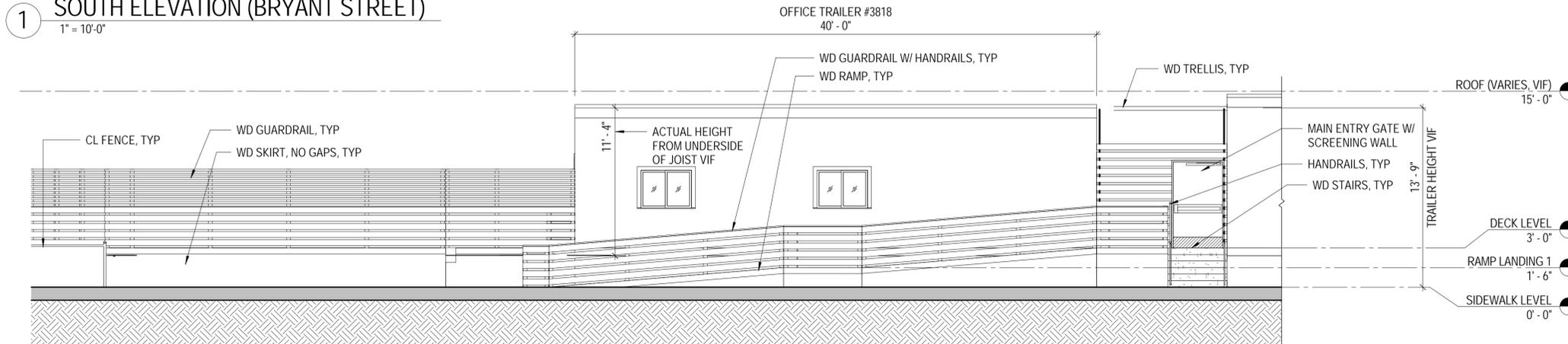
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Project No. _____ Contract ID No.: 1000009419

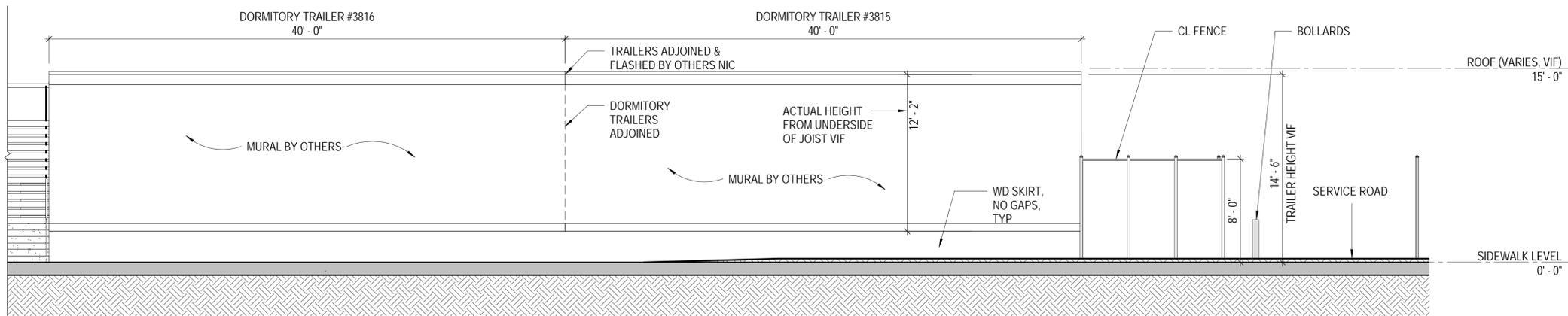
SOUTH ELEVATION - PART 1 SOUTH ELEVATION - PART 2



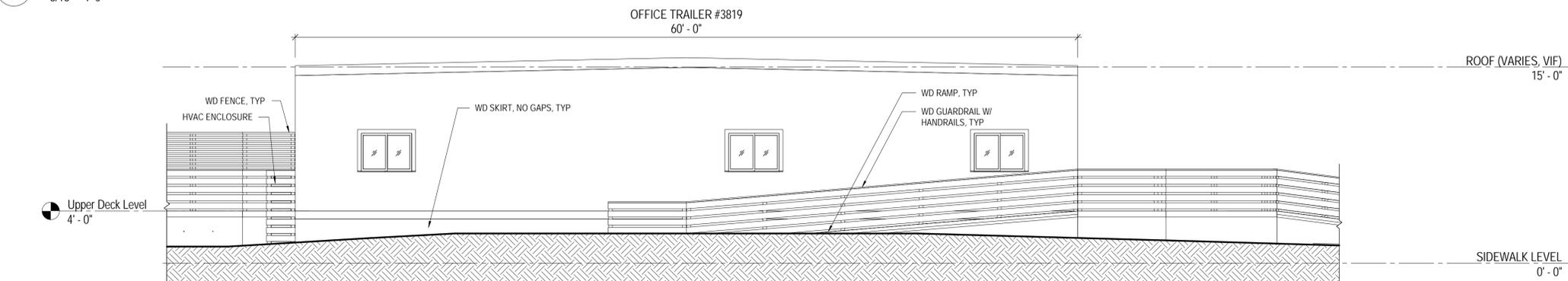
1 SOUTH ELEVATION (BRYANT STREET)
1" = 10'-0"



2 SOUTH ELEVATION PART 1
3/16" = 1'-0"

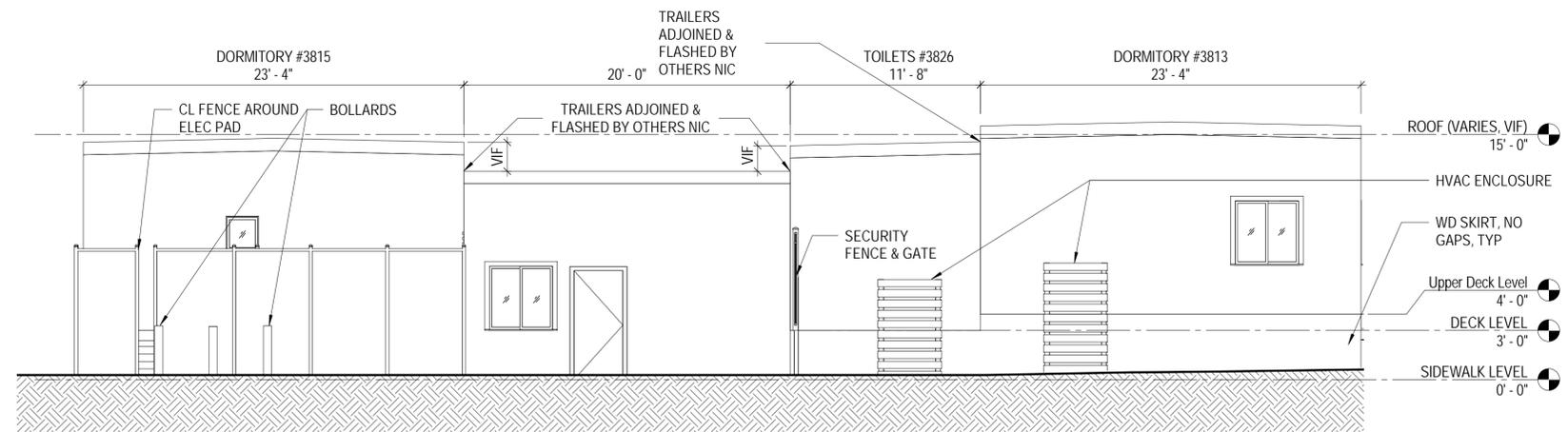


3 SOUTH ELEVATION PART 2
3/16" = 1'-0"

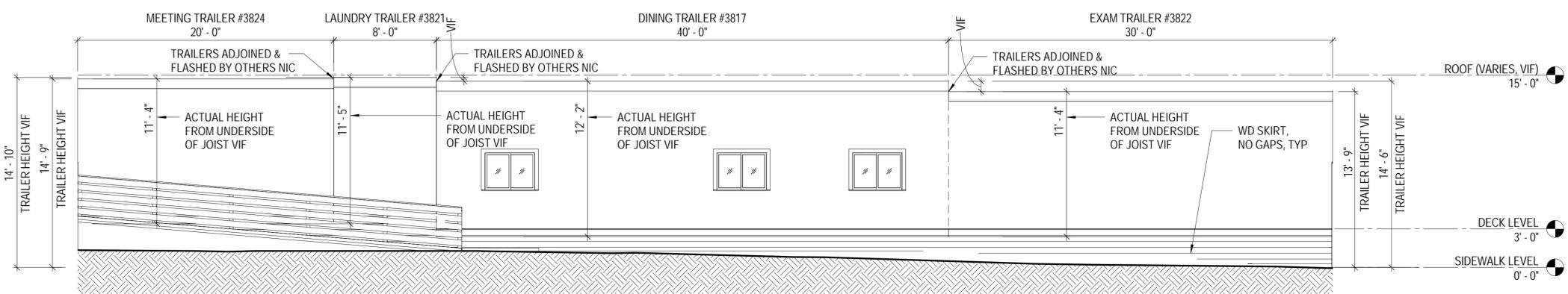


4 NORTH ELEVATION
3/16" = 1'-0"

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1 EAST ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"

SHEET NOTES

1. ALL TRAILERS WILL BE ADJOINED AND FLASHED FOR WATERTIGHT CONNECTIONS ON SITE BY OTHERS, NIC.



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EXTERIOR BUILDING ELEVATIONS

Sheet No.

A 3.1.2

Scale: 3/16" = 1'-0"
Project No. Contract ID No.: 1000009419



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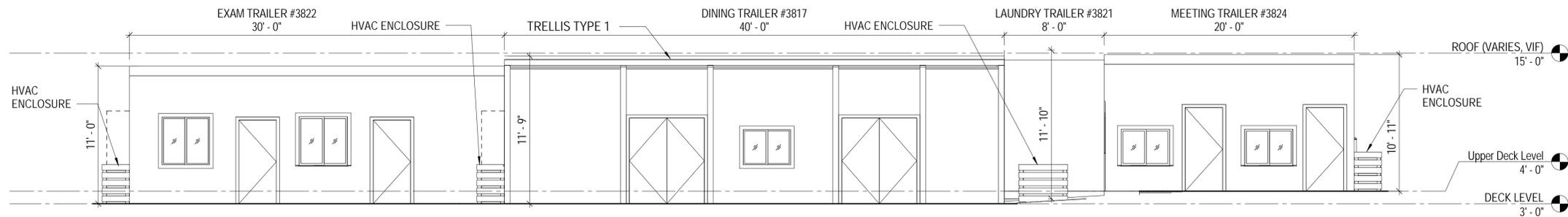
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INTERIOR COURTYARD
ELEVATIONS

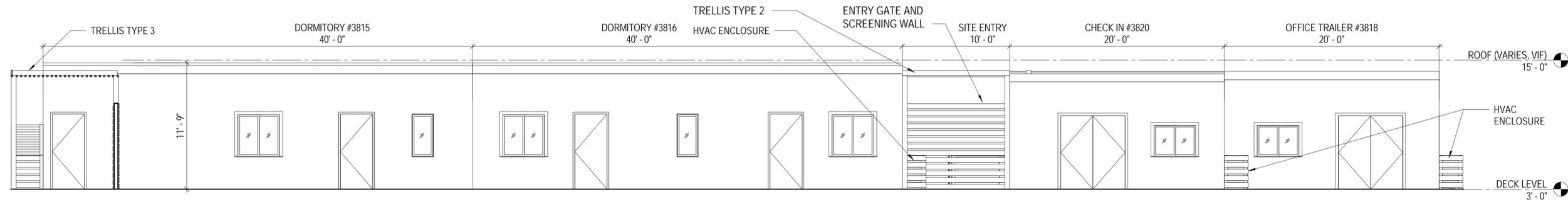
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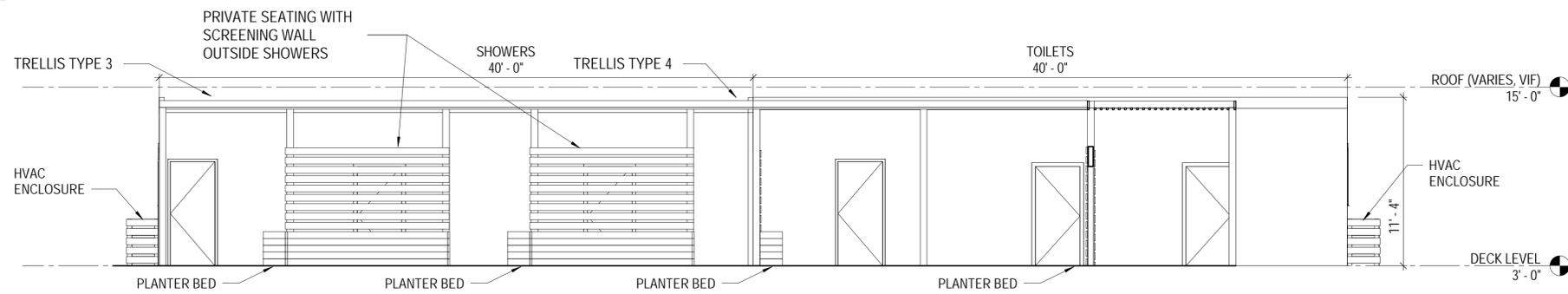
Scale: 3/16" = 1'-0"
Project No. _____ Contract ID No.: 1000009419



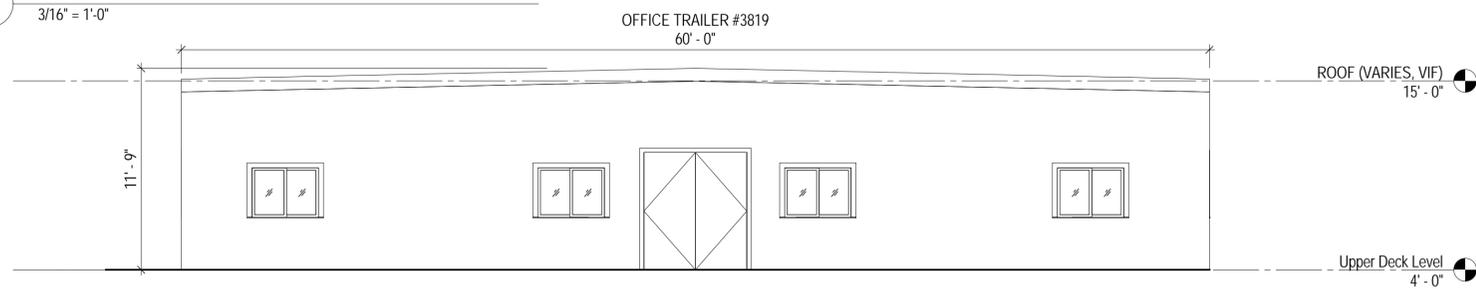
1 COMMUNITY ROOM ELEVATION
3/16" = 1'-0"



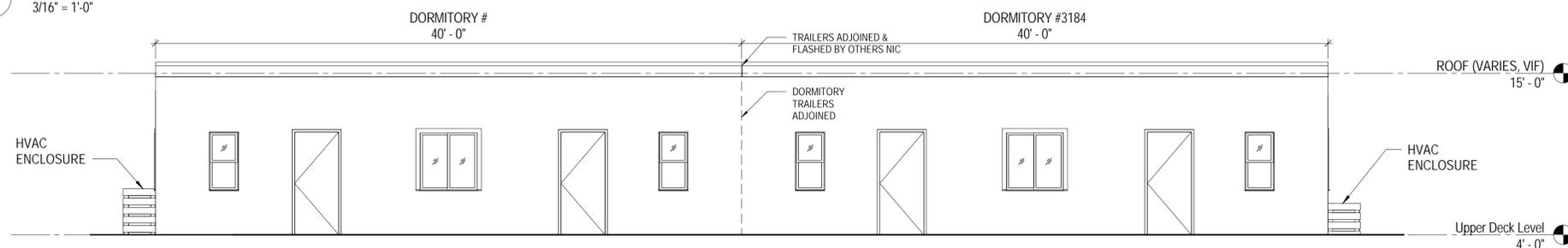
2 ENTRY & DORMITORY ELEVATION
3/16" = 1'-0"



3 TOILETS & SHOWERS ELEVATION
3/16" = 1'-0"



4 BACK OFFICE ELEVATION
3/16" = 1'-0"



5 BACK DORMITORY ELEVATION
3/16" = 1'-0"



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RAMP & STAIR PLANS, SECTIONS, DETAILS

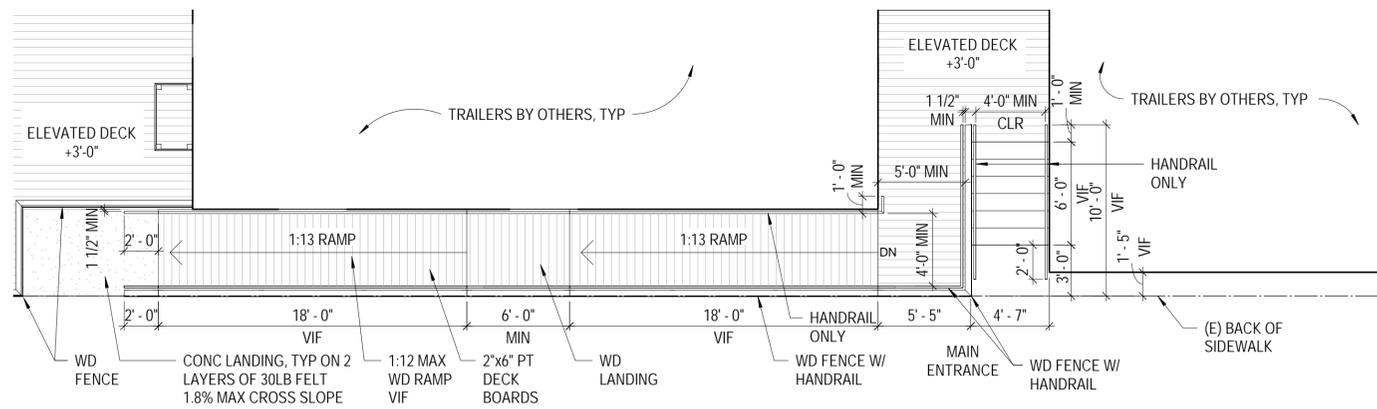
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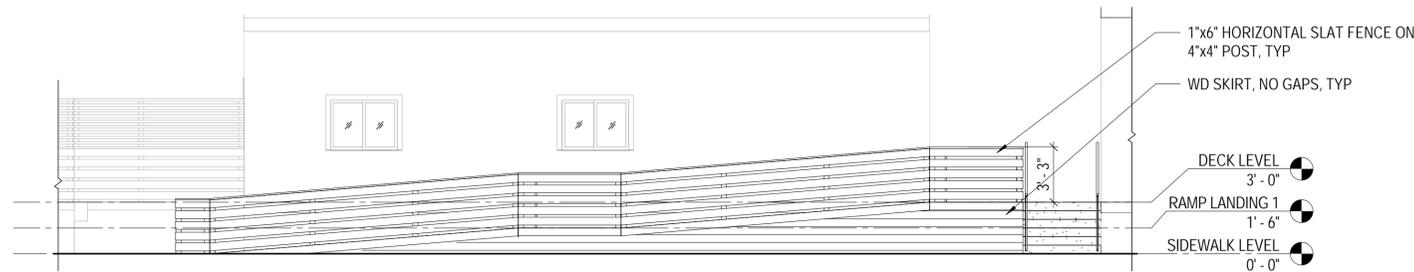
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SHEET NOTES

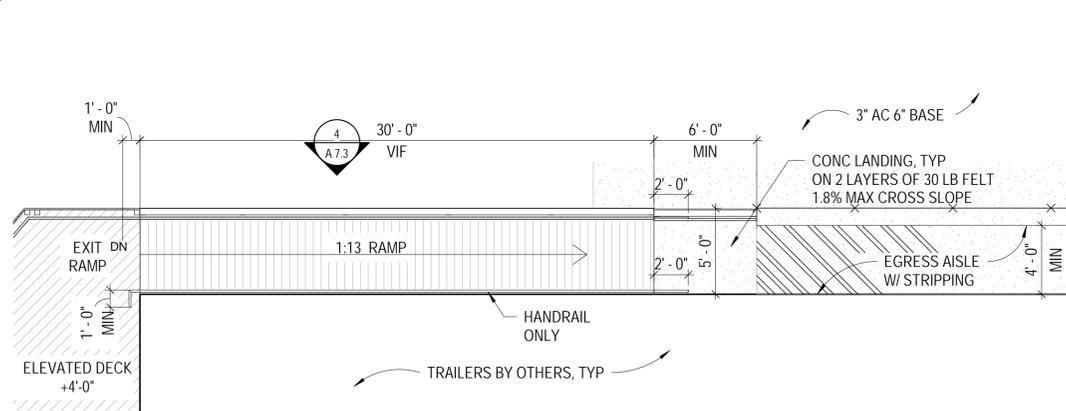
- HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.
- TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
- TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
- BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.



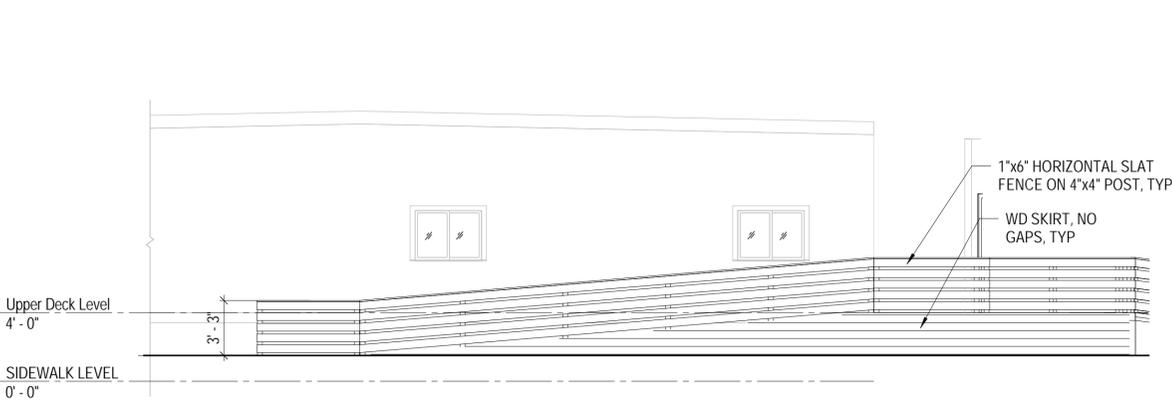
1 ENTRY RAMP & STAIRS
 3/16" = 1'-0"



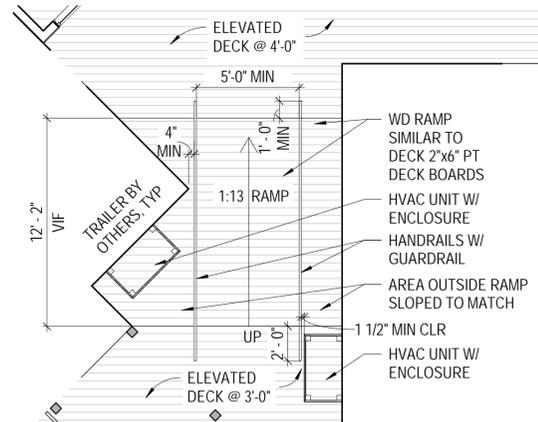
2 ENTRY RAMP & STAIR ELEVATION
 3/16" = 1'-0"



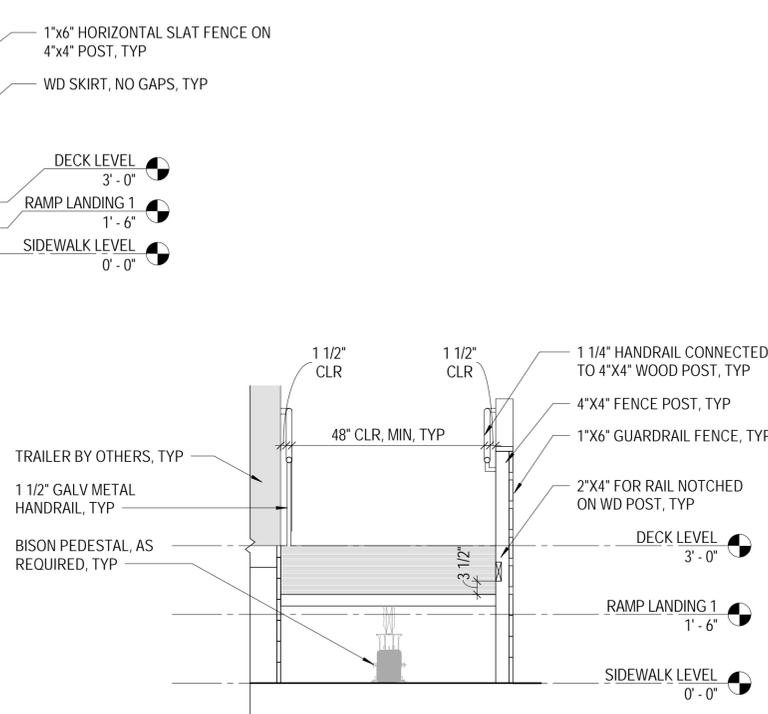
3 EXIT RAMP
 3/16" = 1'-0"



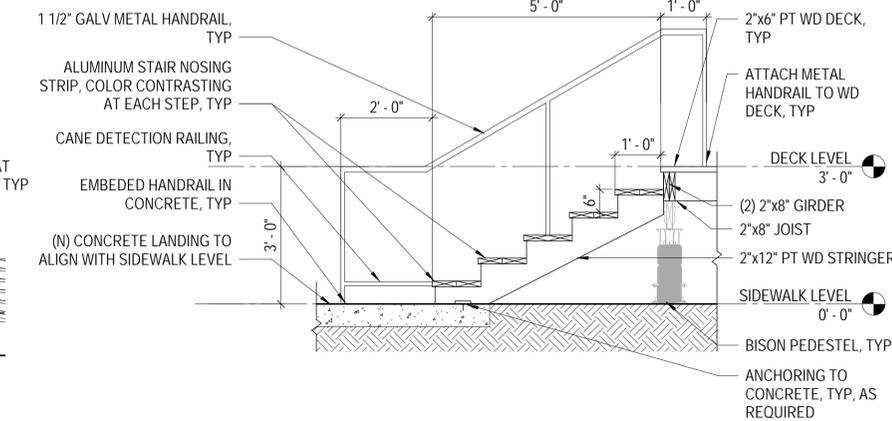
4 EXIT RAMP
 3/16" = 1'-0"



5 INTERIOR COURTYARD RAMP
 3/16" = 1'-0"



6 TYPICAL RAMP SECTION
 1/2" = 1'-0"



7 TYPICAL STAIR SECTION
 1/2" = 1'-0"





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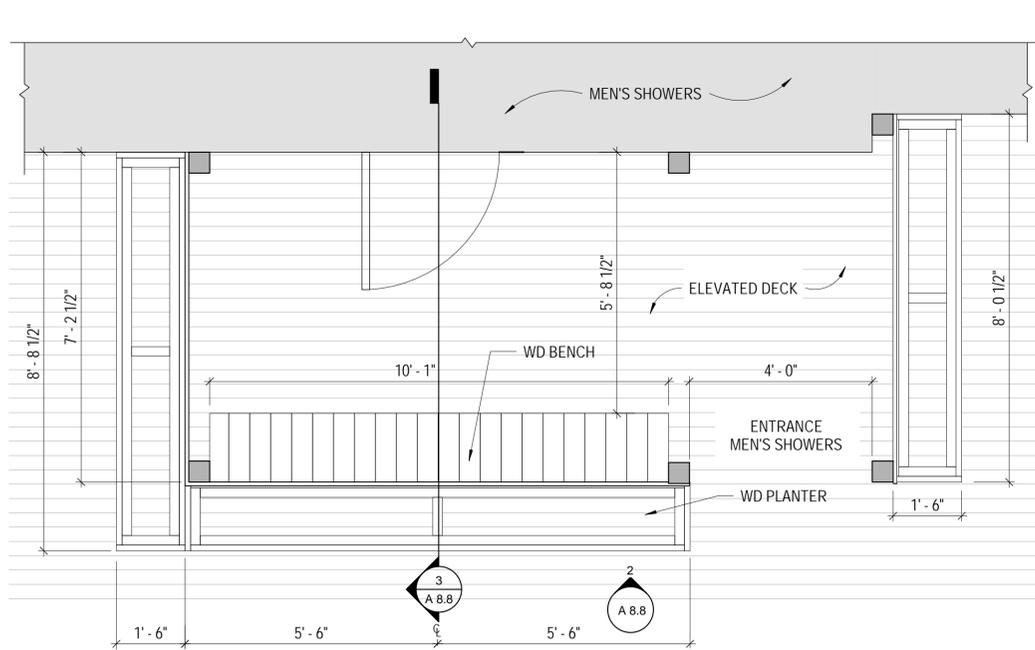
SEATING AREA & PRIVACY
SCREENING DETAILS

Sheet No. _____

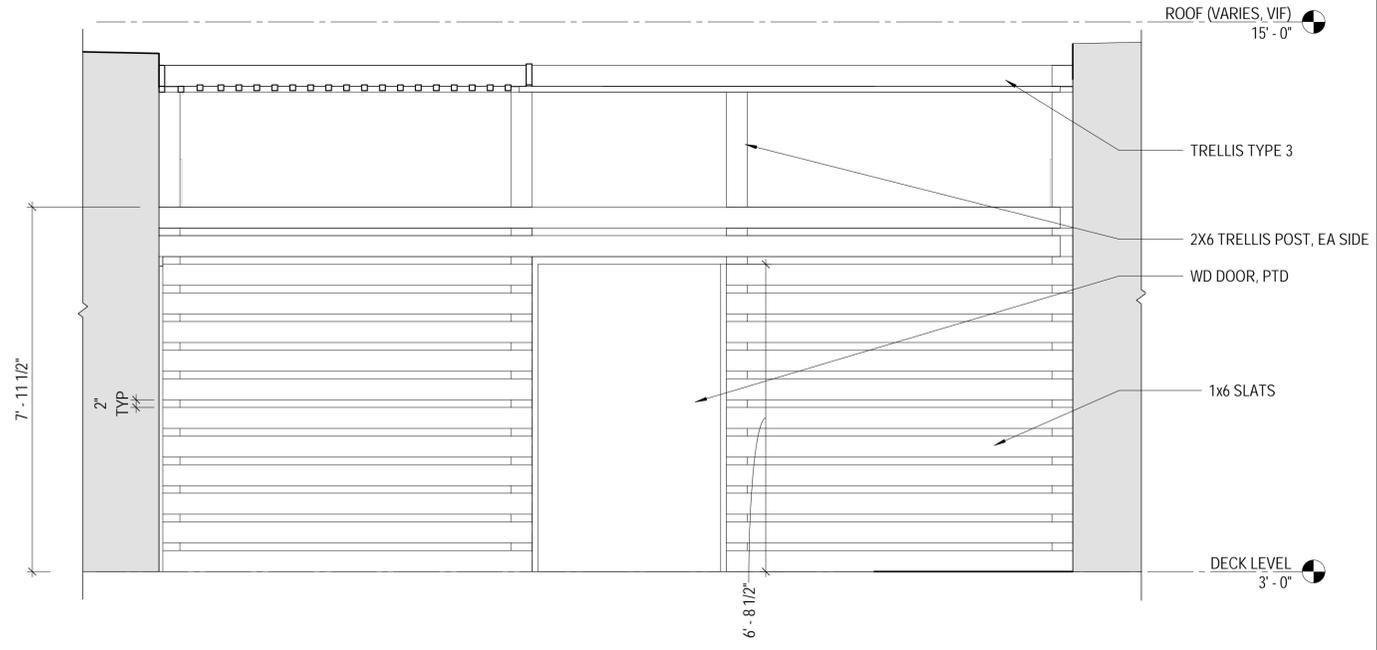
A 8.8

Scale: As indicated

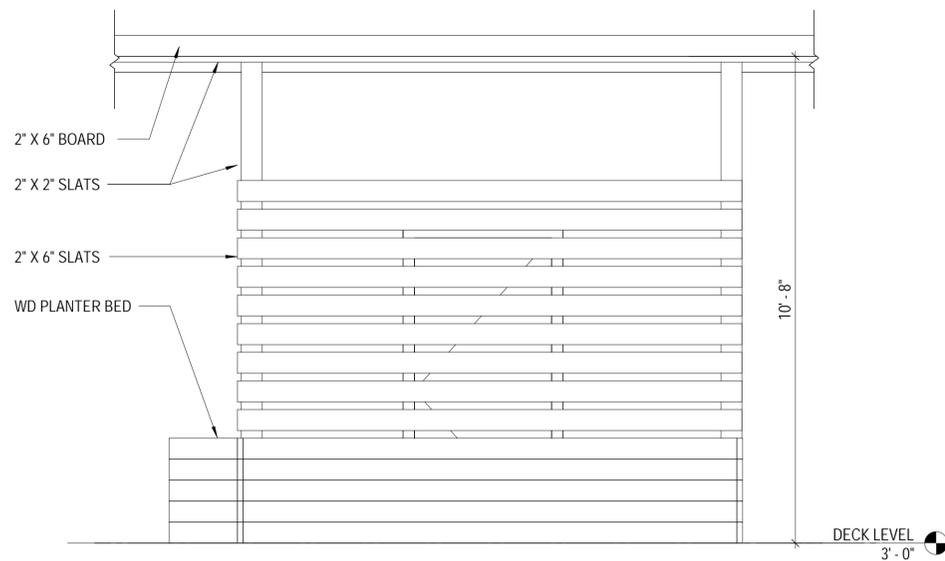
Project No. _____ Contract ID No.: 1000009419



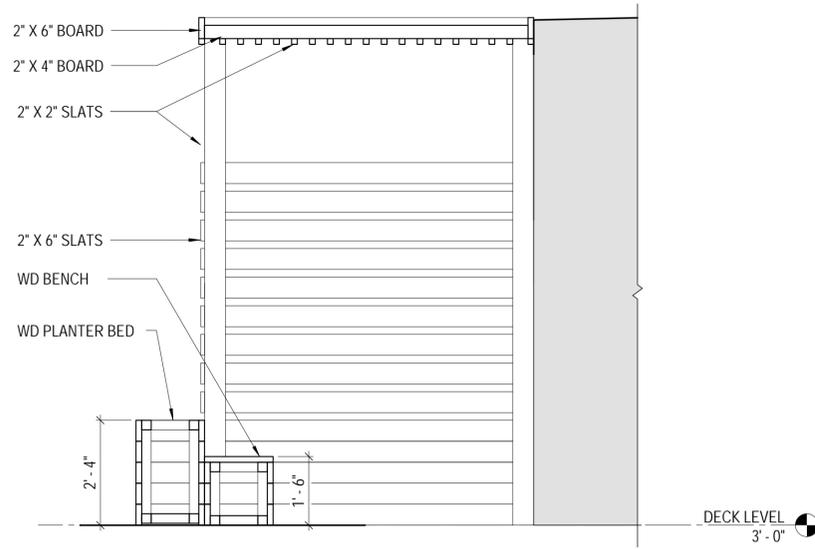
1 SEATING AREA PLAN
1/2" = 1'-0"



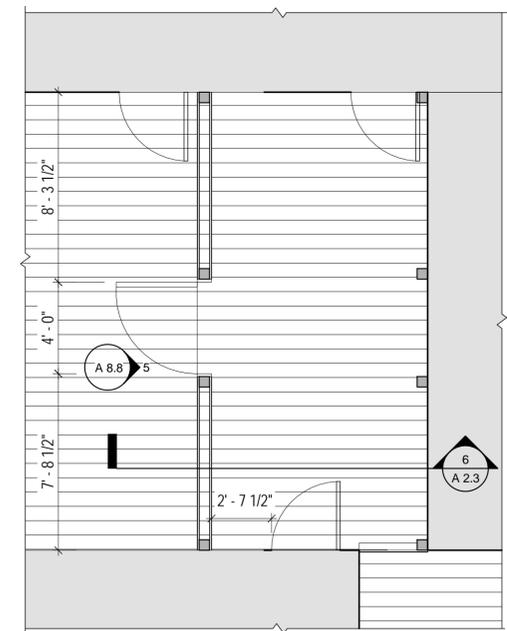
5 WOMEN'S ONLY AREA GATE ELEVATION
1/2" = 1'-0"



2 PRIVACY SCREENING FRONT VIEW
1/2" = 1'-0"



3 PRIVACY SCREENING SECTION
1/2" = 1'-0"



4 MAIN ENTRANCE GATE PLAN
1/4" = 1'-0"



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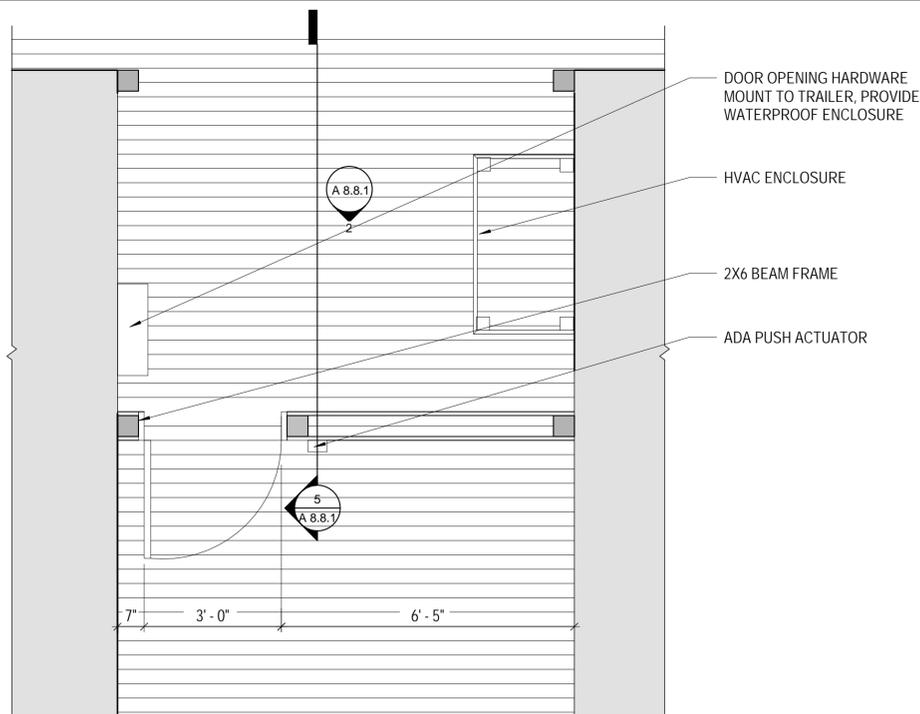
EXTERIOR DETAILS MISC

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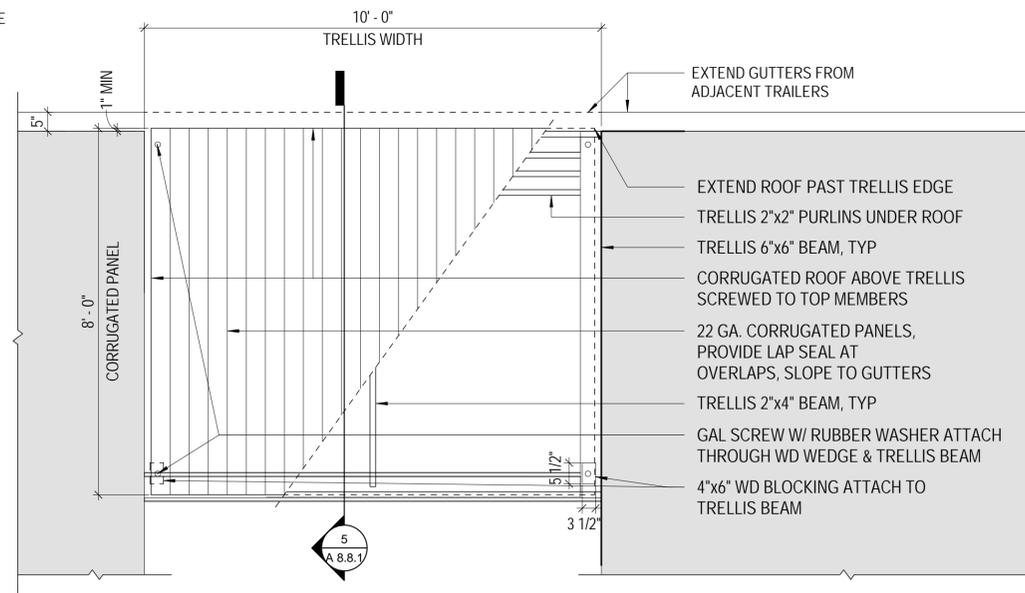
A 8.8.1

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Project No. _____ Contract ID No.: 1000009419

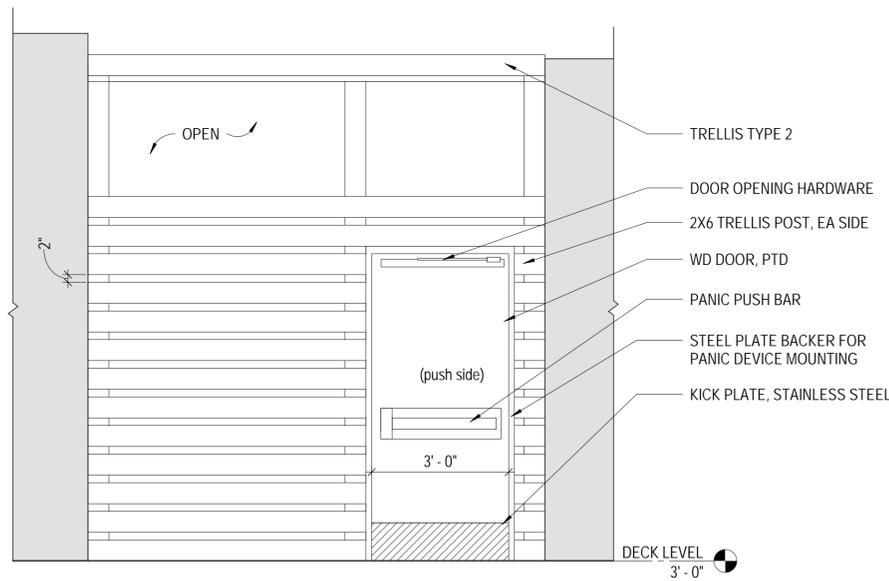
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CONSTRUCTION**



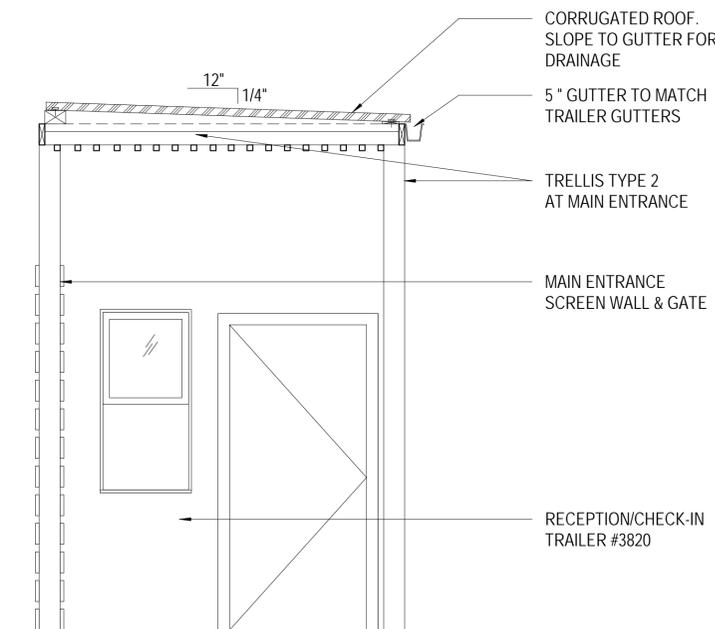
1 MAIN ENTRANCE GATE PLAN
1/2" = 1'-0"



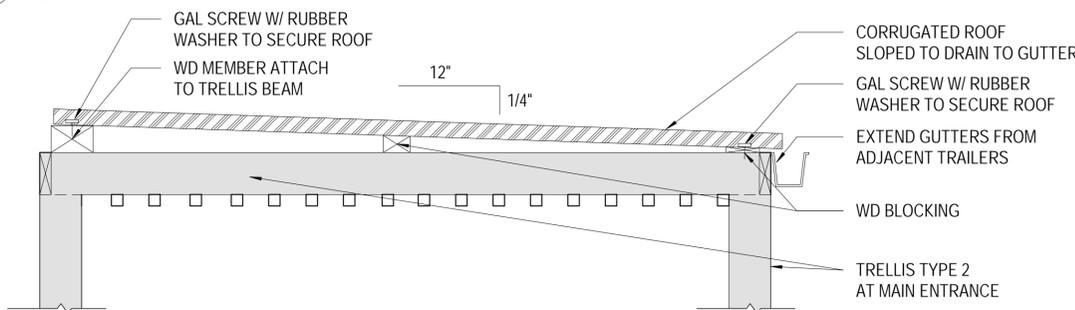
3 TRELLIS PLAN TYPE 2
1/2" = 1'-0"



2 ENTRY GATE ELEVATION PUSH SIDE
1/2" = 1'-0"



4 TRELLIS TYPE 2 CORRUGATED ROOF
1/2" = 1'-0"



5 TRELLIS TYPE 2 CORRUGATED ROOF
1" = 1'-0"



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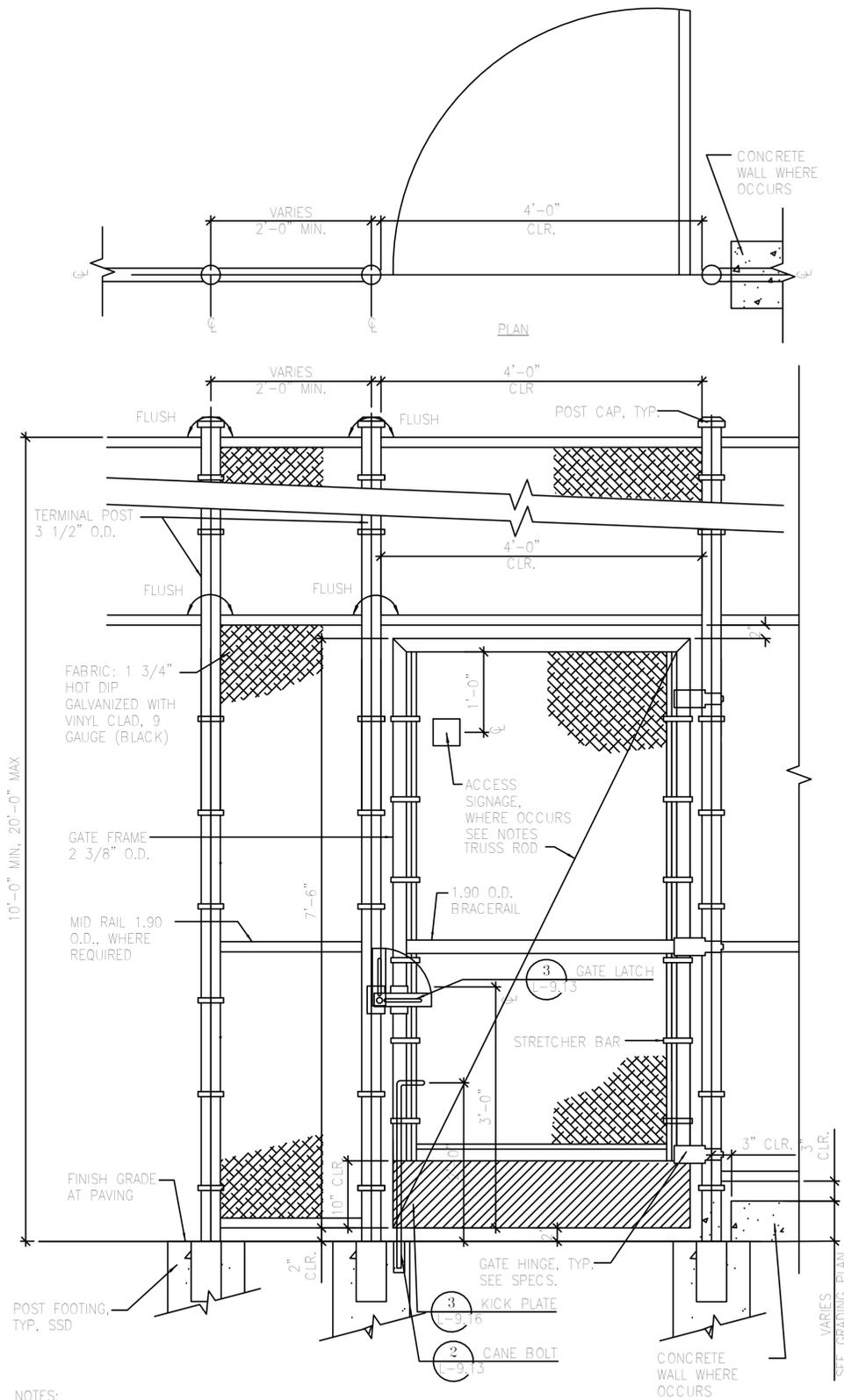
Drawing Title _____

CHAINLINK GATE DETAILS

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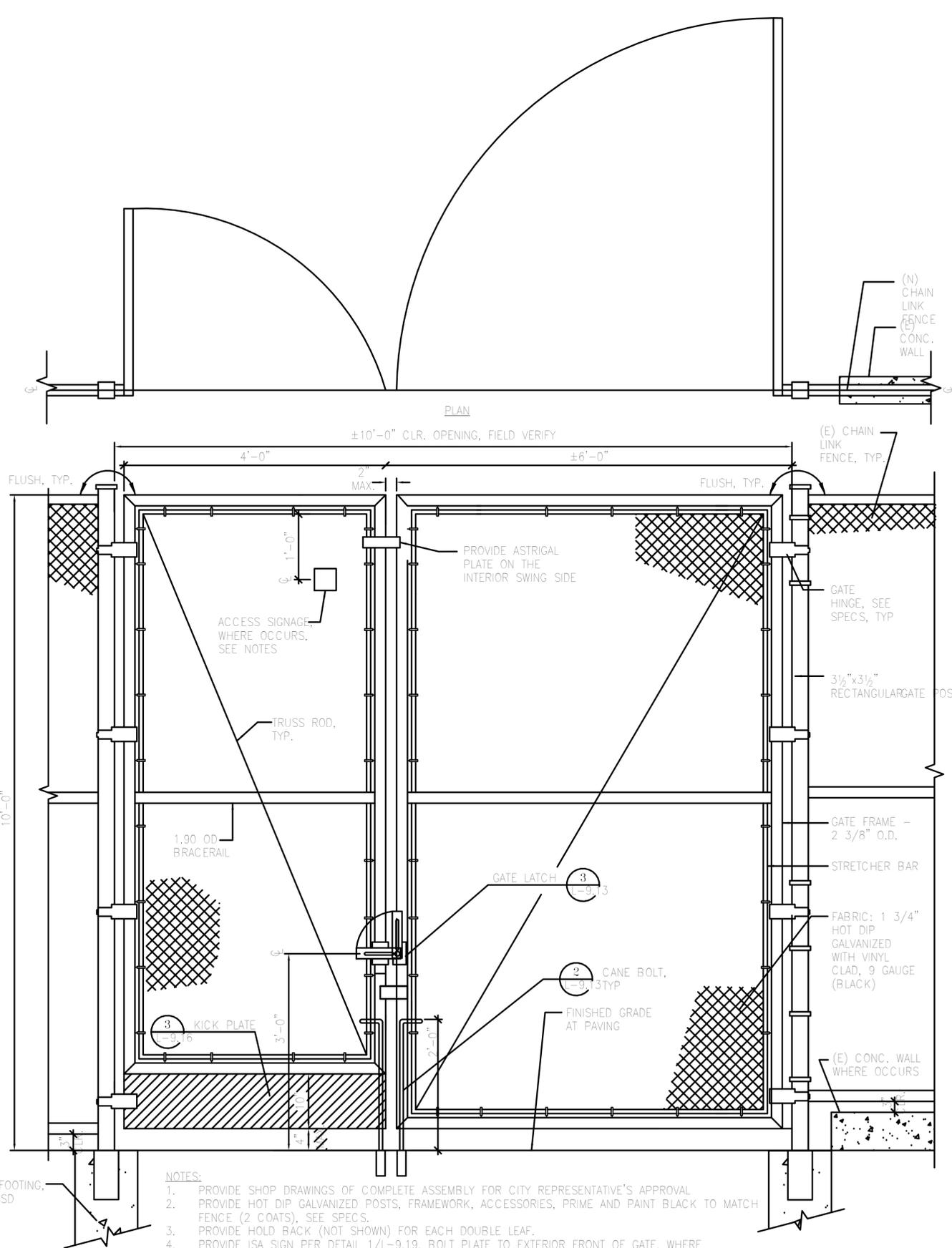
A 8.9

Scale: 1" = 1'-0"
Project No. _____ Contract ID No.: 1000009419



- NOTES:
1. PROVIDE SHOP DRAWINGS OF COMPLETE ASSEMBLY FOR CITY REPRESENTATIVE'S APPROVAL
 2. PROVIDE HOT DIP GALVANIZED POSTS, FRAMEWORK, ACCESSORIES, PRIME AND PAINT BLACK TO MATCH FENCE (2 COATS), SEE SPECS.
 3. PROVIDE HOLD BACK (NOT SHOWN) FOR EACH DOUBLE LEAF.
 4. PROVIDE ISA SIGN PER DETAIL 1/L-9.19, BOLT PLATE TO EXTERIOR FRONT OF GATE, WHERE APPLICABLE. SEE DETAIL REFERENCE PLAN. VERIFY EXACT LOCATION IN FIELD WITH CITY REPRESENTATIVE.
 5. FOR SWING DIRECTIONS, SEE PLAN

1 SINGLE GATE DETAIL
1" = 1'-0"



- NOTES:
1. PROVIDE SHOP DRAWINGS OF COMPLETE ASSEMBLY FOR CITY REPRESENTATIVE'S APPROVAL
 2. PROVIDE HOT DIP GALVANIZED POSTS, FRAMEWORK, ACCESSORIES, PRIME AND PAINT BLACK TO MATCH FENCE (2 COATS), SEE SPECS.
 3. PROVIDE HOLD BACK (NOT SHOWN) FOR EACH DOUBLE LEAF.
 4. PROVIDE ISA SIGN PER DETAIL 1/L-9.19, BOLT PLATE TO EXTERIOR FRONT OF GATE, WHERE APPLICABLE. SEE DETAIL REFERENCE PLAN. VERIFY EXACT LOCATION IN FIELD WITH CITY REPRESENTATIVE.
 5. FOR SWING DIRECTIONS, SEE PLAN

2 DOUBLE GATE DETAIL
1" = 1'-0"

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 San Francisco, CA 94102-6028 Fax (415)557-4701 (415)557-4700

Project _____

5th and Bryant Navigation Center

680 Bryant Street, San Francisco CA 94107

Consultant _____

MARCH 23, 2018

| No. | Date | Revisions |
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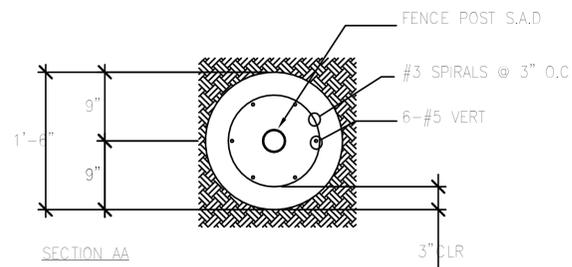
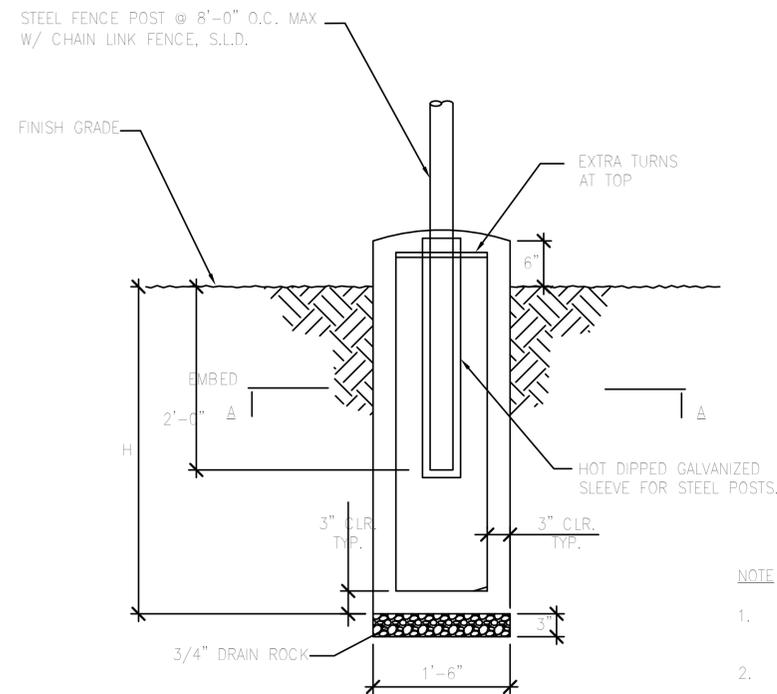
Drawing Title _____

GATE HARDWARE

Sheet No. _____

A 8.10

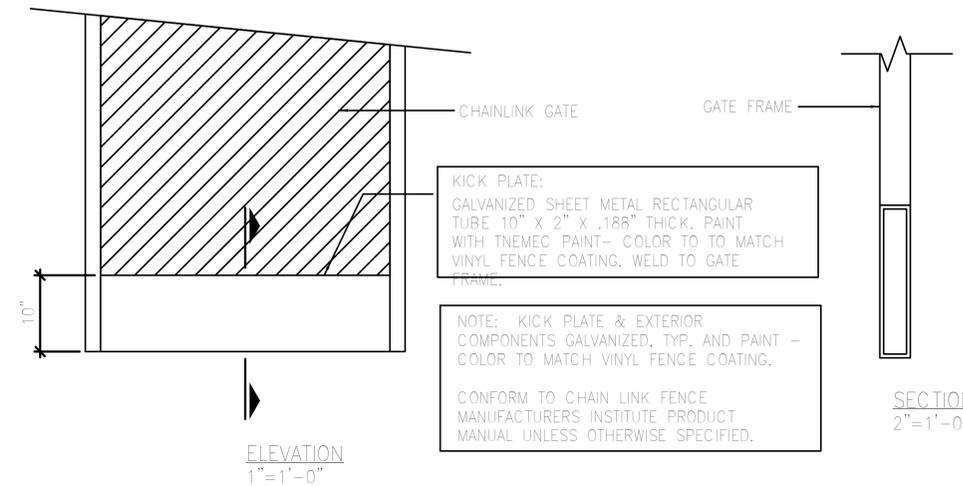
Scale: 1" = 1'-0"
 Project No. _____ Contract ID No.: 1000009419



| (H) | MAX POST HEIGHT |
|-------|-----------------|
| 1'-6" | 3'-0" |
| 2'-6" | 6'-0" |
| 4'-6" | 10'-0" |
| 6'-6" | 14'-0" |
| 8'-6" | 20'-0" |

NOTE

1. SET THE SLEEVE FOR THE POST 1" BELOW FINISH GRADE AND GROUT. FOR PAVEMENT LOCATION S.L.D.
2. ACTUAL DEPTH OF CIDH PILE SHALL BE VERIFIED BY CITY REPRESENTATIVE



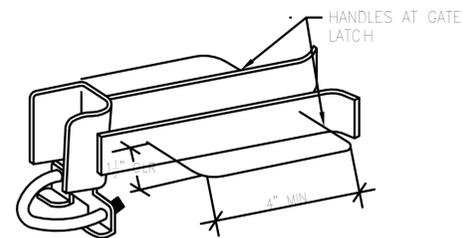
KICK PLATE:
 GALVANIZED SHEET METAL RECTANGULAR TUBE 10" X 2" X .188" THICK. PAINT WITH TNEPEC PAINT- COLOR TO TO MATCH VINYL FENCE COATING. WELD TO GATE FRAME.

NOTE: KICK PLATE & EXTERIOR COMPONENTS GALVANIZED, TYP. AND PAINT - COLOR TO MATCH VINYL FENCE COATING.

CONFORM TO CHAIN LINK FENCE MANUFACTURERS INSTITUTE PRODUCT MANUAL UNLESS OTHERWISE SPECIFIED.

1 GATE POST FOOTING DETAIL
 1" = 1'-0"

3 KICKPLATE DETAIL
 1" = 1'-0"



NOTES:

1. COMMERCIAL GRADE FULCRUM GATE LATCH - "STRONG ARM LATCH" AS AVAILABLE FROM THOLL FENCE, INC. (775) 358-8680, NO KNOWN EQUAL.
2. HANDLES AT GATE LATCH: 1" SQUARE GALVANIZED STEEL HANDLES, PAINT BLACK TO MATCH FENCE
3. WELD HANDLES ON BOTH SIDES AS SHOWN, MOUNT LEVEL ON GATE.
4. LATCH HANDLES MEASURED FROM INSIDE EDGE.

2 GATE LATCH DETAIL
 1" = 1'-0"



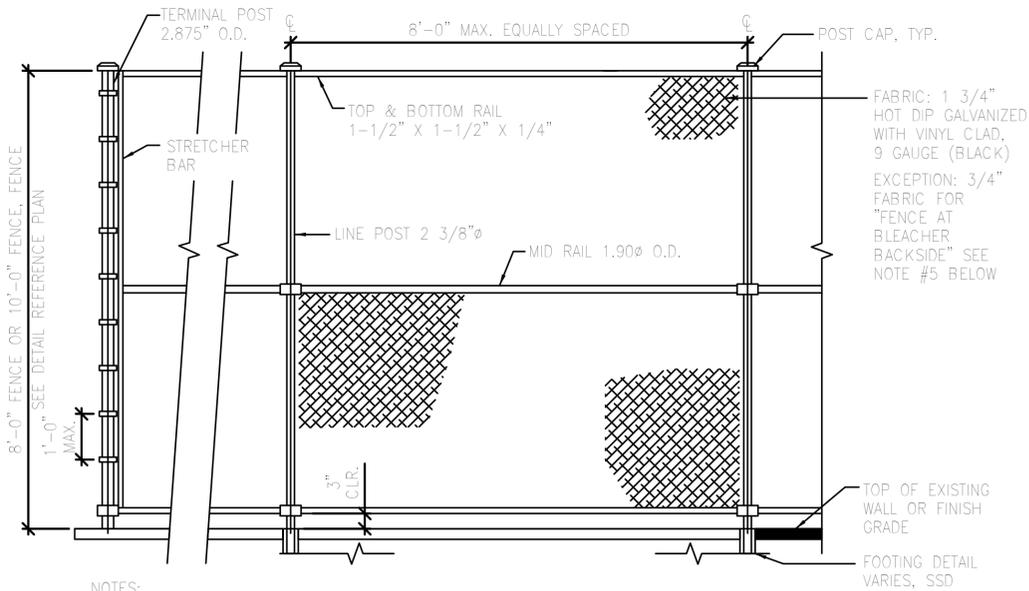
Edgar Lopez - City Architect
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 San Francisco, CA 94102-6028 Fax (415)557-4701 (415)557-4700

Project _____

5th and Bryant Navigation Center

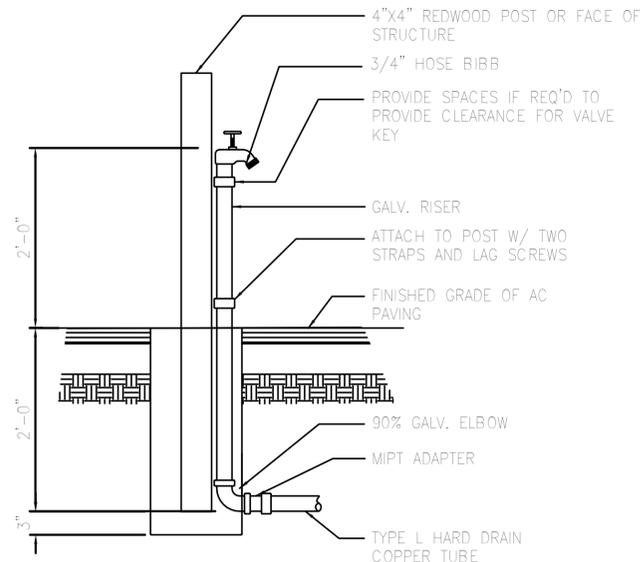
680 Bryant Street, San Francisco CA 94107

Consultant _____



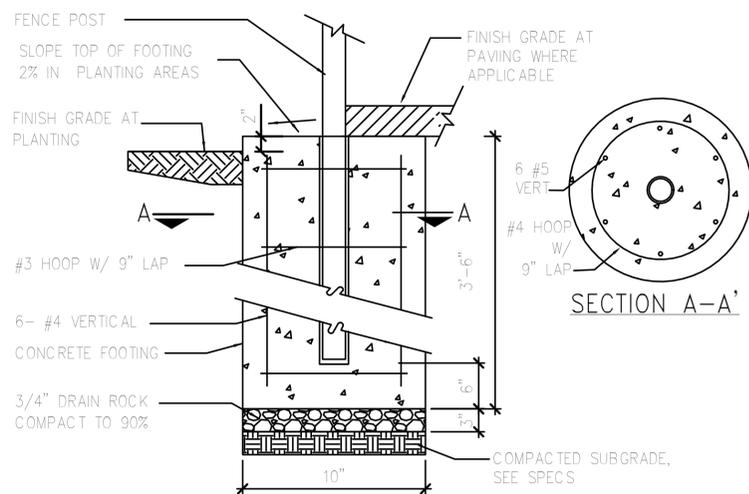
NOTES:

1. PROVIDE SHOP DRAWINGS OF COMPLETE ASSEMBLY FOR CITY REPRESENTATIVE'S APPROVAL.
2. PROVIDE HOT DIP GALVANIZED POSTS, FRAMEWORK, ACCESSORIES, PRIME AND PAINT BLACK TO MATCH FENCE (2 COATS). SEE SPECS.
3. THIS DETAIL IS APPLICABLE FOR PERIMETER FENCE AND INTERIOR FENCE PER LA DWGS..

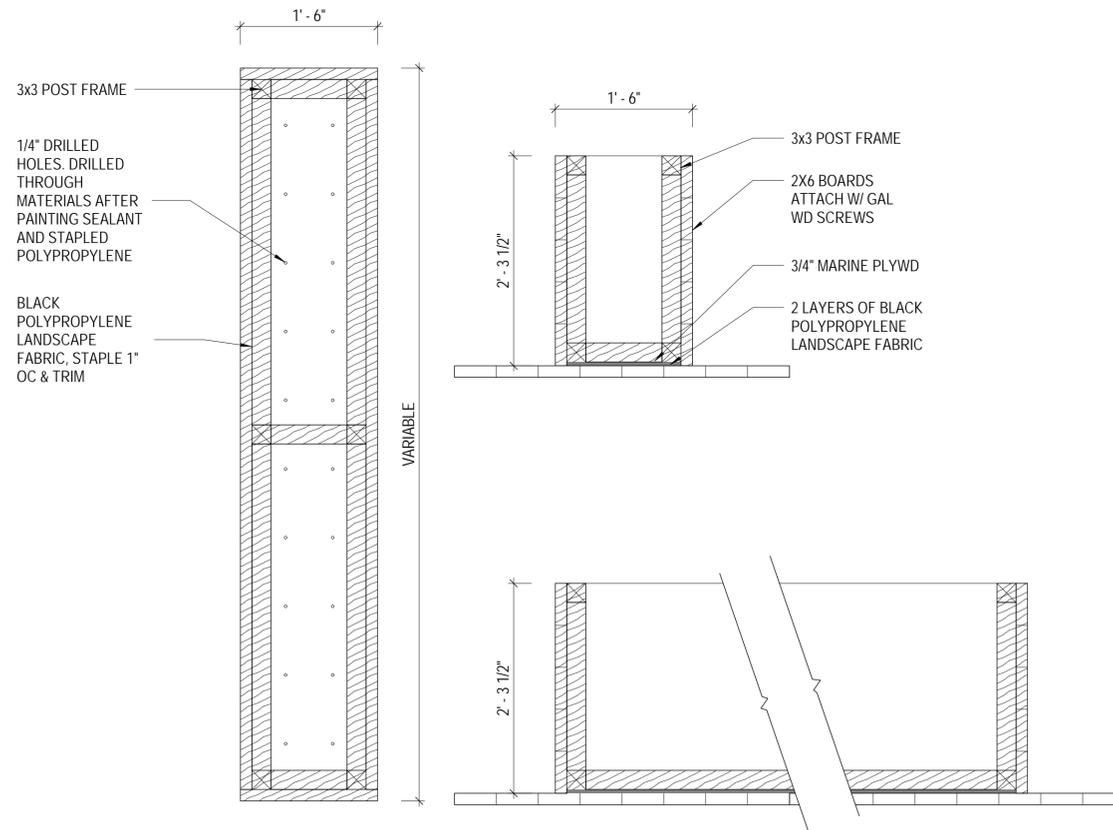


1 CHAINLINK FENCE DETAIL
 1/2" = 1'-0"

3 HOSE BIB DETAIL
 1" = 1'-0"



2 FENCE POST FOOTING DETAIL
 1" = 1'-0"



- NOTES:
1. ALL POSTS AND BOARDS SHALL BE PT WOOD
 2. ALL SCREWS AND FASTENERS SHALL BE HOT DIPPED GALVANIZED STEEL
 3. PAINT INSIDE BOXES WITH TWO COATS OF FLEXI-SEAL POLY SEAL OR EQUAL TO 2.5" BELOW RIM OF PLANTER BOX
 4. LINE INSIDE BOXES WITH BLACK POLYPROPYLENE LANDSCAPE FABRIC, STAPLE 12" OC AND TRIM TO 2.5" BELOW RIM OF PLANTER BOX

4 PLANTER BED
 1" = 1'-0"

MARCH 23, 2018

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 Checked by _____ Checker

Drawing Title _____

CHAINLINK FENCE & MISC. DETAILS

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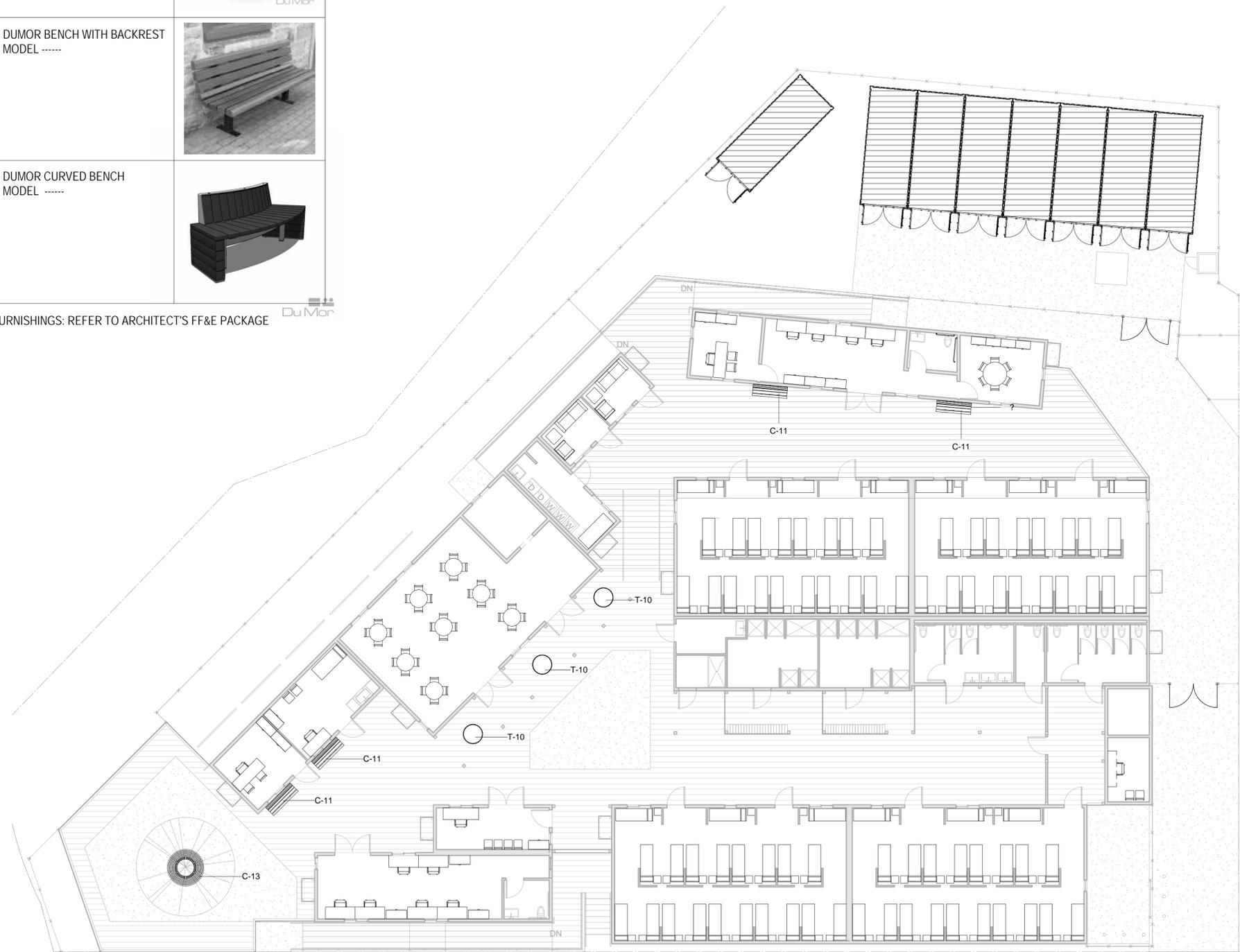
Scale: As indicated
 Project No. _____ Contract ID No.: 1000009419

NOT FOR CONSTRUCTION

BOLTED DOWN SITE FURNISHINGS

| KEYNOTE | MODEL | IMAGE |
|---------|---------------------------------------|---|
| T-10 | DUMOR OUTDOOR CAFE TABLE MODEL |  |
| C-11 | DUMOR BENCH WITH BACKREST MODEL |  |
| C-13 | DUMOR CURVED BENCH MODEL |  |

ADDITIONAL FURNISHINGS: REFER TO ARCHITECT'S FF&E PACKAGE



SHEET NOTES

1. PROVIDED BY OTHERS, (BDC), INSTALLED AND BOLTED DOWN BY CONTRACTOR PER ARCHITECTURAL PLANS.
2. WHERE SITE FURNISHINGS ARE INDICATED TO BE BOLTED DOWN, CONTRACTOR TO PROVIDE PROPER ANCHORS AND COORDINATE DECK AND FRAMING FOR BOLTED DOWN FURNISHINGS PER MANUFACTURE SPECS AND INSTALLATION GUIDE FOR DECK INSTALLATION.

LEGEND

BUILDING DESIGN AND CONSTRUCTION DIVISION



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 San Francisco, CA San Francisco, CA
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Drawing Title _____

FF&E PLAN

Sheet No. _____

A 10.4

Scale: 3/32" = 1'-0"

Project No. _____ Contract ID No.: 1000009419

1 FF&E PLAN
 3/32" = 1'-0"



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Project

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680 BRYANT STREET, SAN FRANCISCO, CA 94107

Consultant

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|--------------------------|-------|---|
| | | DESIGN & ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028 |
| DESIGNED BY: | KL/RC | DATE: 03/2018 |
| DRAWN BY: | RC | DATE: 03/2018 |
| CHECKED BY: | KL | DATE: 03/2018 |
| APPROVED | | |
| SECTION MANAGER: | | DATE: |
| DEPUTY DIVISION MANAGER: | | DATE: |
| DIVISION MANAGER: | | DATE: |

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 Proj. Arch. AS
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 Checked by KL

Drawing Title

FIRE PROTECTION LEGEND, ABBREVIATIONS AND GENERAL NOTES

Sheet No.

F-0.01

Scale:
 Project No. 8722A

| ABBREVIATIONS | | | LEGEND | | | DESIGN INFORMATION | | | |
|---------------|--------------------------------|--------|-------------|---|--------|---|---|--|--|
| ABBREV | DESCRIPTION | ABBREV | DESCRIPTION | SYMBOL | ABBREV | DESCRIPTION | | | |
| ASR | AUTOMATIC SPRINKLER RISER | | | | AP | ACCESS PANEL | <p>1. GENERAL</p> <p>A. PROJECT NAME: 5TH AND BRYANT NAVIGATION CENTER B. PROJECT LOCATION: 680 BRYANT STREET, SAN FRANCISCO, CA 94107 C. AUTHORITIES HAVING JURISDICTION: FIRE PROTECTION SYSTEM: SAN FRANCISCO FIRE DEPT. CROSS CONNECTION SYSTEM: SAN FRANCISCO WATER DEPT. D. APPLICABLE CODE: NFPA-13, NFPA-14, NFPA-20, NFPA-24, UBC, UFC, CITY & COUNTY OF SAN FRANCISCO LOCAL ORDINANCES & FACTORY MUTUAL</p> <p>2. DESIGN DATA</p> <p>A. OCCUPANCY: B AND R1 B. HAZARD: TYPE V LIGHT HAZARD C. BUILDING HEIGHT FROM STREET: REFER TO ARCH DWGS D. AREA OF APPLICATION PER FLOOR: 12840 SF E. No. OF ZONE: TO BE DETERMINED BY CONTRACTOR</p> <p>F. TYPE OF PIPE: ABOVE GROUND: BLACK STEEL, SCHEDULE 40, C=120 BELOW GROUND: DUCTILE IRON PIPE AWWA C=140 REFER TO SECTION 21 10 00</p> <p>3. WATER FLOW INFORMATION</p> <p>A. STATIC PRESSURE: - B. RESIDUAL PRESSURE: MIN. 3", MAX. 10" C. FLOW: SFDPW PAID AND OBTAINED WATER FLOW INFORMATION FROM SAN FRANCISCO FIRE DEPARTMENT D. LOCATION: 8" CWM ALONG BRYANT STREET</p> <p>4. SPRINKLERS</p> <p>A. SPRINKLER HEAD: - B. DEFLECTOR DISTANCE FROM CEILING: - C. INSIDE & OUTSIDE HOSE STREAM ALLOWANCE: TO BE DETERMINED BY DESIGN - BUILD CONTRACTOR</p> | | |
| AUTO | AUTOMATIC | | | | | DSP VALVE | | | |
| CML | CEMENT MORTAR LINED | | | | | EXISTING WORK TO BE REMOVED | | | |
| CKV | CHECK VALVE | | | | | EXPOSURE PROTECTION SPRINKLER HEAD | | | |
| CWM | CITY WATER MAIN | | | | | PIPE EXPANSION JOINT | | | |
| DCDA | DOUBLE CHECK DETECTOR ASSEMBLY | | | | | PIPE SIZE RISER NIPPLE | | | |
| DIP | DUCTILE IRON PIPE | | | | | RISER PIPE SIZE RISER | | | |
| DSP | DRY STAND PIPE | | | | | RISER PIPE SIZE RISER DOWN | | | |
| (E) | EXISTING | | | | | PIPE PENETRATION THRU STRUCTURE BEAM/ STRUCTURE FOUNDATION | | | |
| FDC | FIRE DEPARTMENT CONNECTION | | | <p>THIS IS A STANDARD LEGEND SHEET, THEREFORE SOME OF ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS.</p> <p style="text-align: center;">NOTES</p> <p>GENERAL NOTES</p> <ol style="list-style-type: none"> THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND LOCAL ORDINANCES OF SFFD. DEFLECTOR DISTANCES SHALL BE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. PIPING SHALL RUN AS HIGH AS POSSIBLE. HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13. AUXILIARY DRAINS SHALL BE PROVIDED WHEREVER NECESSARY. FLUSHING CONNECTIONS SHALL BE PROVIDED ON ALL CROSS MAINS AND FEED MAINS PER NFPA 13 SPRINKLER CONTRACTORS SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES. ALL SPRINKLERS AND RELATED EQUIPMENTS SHALL BE UL LISTED AND FM APPROVED. HYDROSTATIC TESTS OF ALL SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. THE SYSTEM SHALL BE INSTALLED (HUNG, BRACED, SLEEVED, AND DRAINED) AND TESTED IN ACCORDANCE WITH NFPA 13, INCLUDING APPENDICES. ALL PIPE LENGTH AND LOCATION AND DIMENSIONS SHOWN ARE FOR HYDRAULIC CALCULATIONS AND SHALL NOT BE USED FOR CONSTRUCTION. ALL PIPE LENGTHS AND DIMENSIONS SHOWN ARE TO BE VERIFIED IN THE FIELD. THESE DIMENSIONS ARE CENTER TO CENTER MEASUREMENTS. ALL UNDERGROUND WORK (MATERIALS AND METHODS) SHALL BE INSTALLED TO CONFORM WITH NFPA 24. MAIN SHALL BE BURIED A MIN OF 3'-0". PROVIDE THRUST BLOCKING WHERE REQUIRED. THE SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS SHOWING ALL SYSTEM PIPING, LOCATIONS, SIZES ETC. SUBMIT SHOP DRAWINGS FOR APPROVAL TO SFFD PRIOR TO FABRICATION OF MATERIALS. COORDINATE AND OBTAIN FOR PERMISSIBLE METHOD OF INSTALLATIONS FROM STRUCTURAL ENGINEER FOR PIPE PENETRATION THRU BEAMS (PERMITTED ONLY FOR BUILDING B). DESIGN & SUBMIT PIPE EXPANSION JOINTS CAPABLE OF VERTICAL & HORIZONTAL EXPANSION TO THE ENGINEER FOR APPROVAL. FOR PERMISSIBLE METHOD OF INSTALLING PIPING THROUGH STRUCTURAL MEMBERS, SEE STRUCTURAL DRAWINGS. ALL 120V POWER FOR DEVICE TO BE PROVIDED BY DIV. 16 ALL SIGNAL AND CONTROL INCLUDING CONDUIT, WIRES AND PULL BOXES TO BE PROVIDED BY DIV. 15. PROVIDE CONDUIT ROUTING FOR REVIEW BEFORE INSTALLATION COORDINATE WITH SITE DWGS AND ELECTRICAL DWGS. FIRE ALARM CONTROL PANEL IS IN THE FIRE PUMP ROOM. COORDINATE INSTALLATION OF UTILITIES WITH SIDEWALK REPLACEMENT. ALIGN TOP OF UTILITIES BOXES WITH TOP OF NEW SIDEWALK. UTILITY BOXES SHALL BE INSTALLED PARALLEL AND SQUARE TO SIDEWALK CURB AND BUILDING. | | | | | |
| FP | FIRE PROTECTION | | | | | | | | |
| MJ | MECHANICAL JOINT | | | | | | | | |
| (N) | NEW | | | | | | | | |
| PG | PRESSURE GAGE | | | | | | | | |
| RN | RISER NIPPLE | | | | | | | | |
| SFFD | SAN FRANCISCO FIRE DEPARTMENT | | | | | | | | |
| WFD | WATER FLOW DETECTOR | | | | | | | | |



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| | DRAWN BY: | RC 03/2018 |
| | CHECKED BY: | KL 03/2018 |
| APPROVED | | |
| SECTION MANAGER: | DATE: | |
| DEPUTY DIVISION MANAGER: | DATE: | |
| DIVISION MANAGER: | DATE: | |

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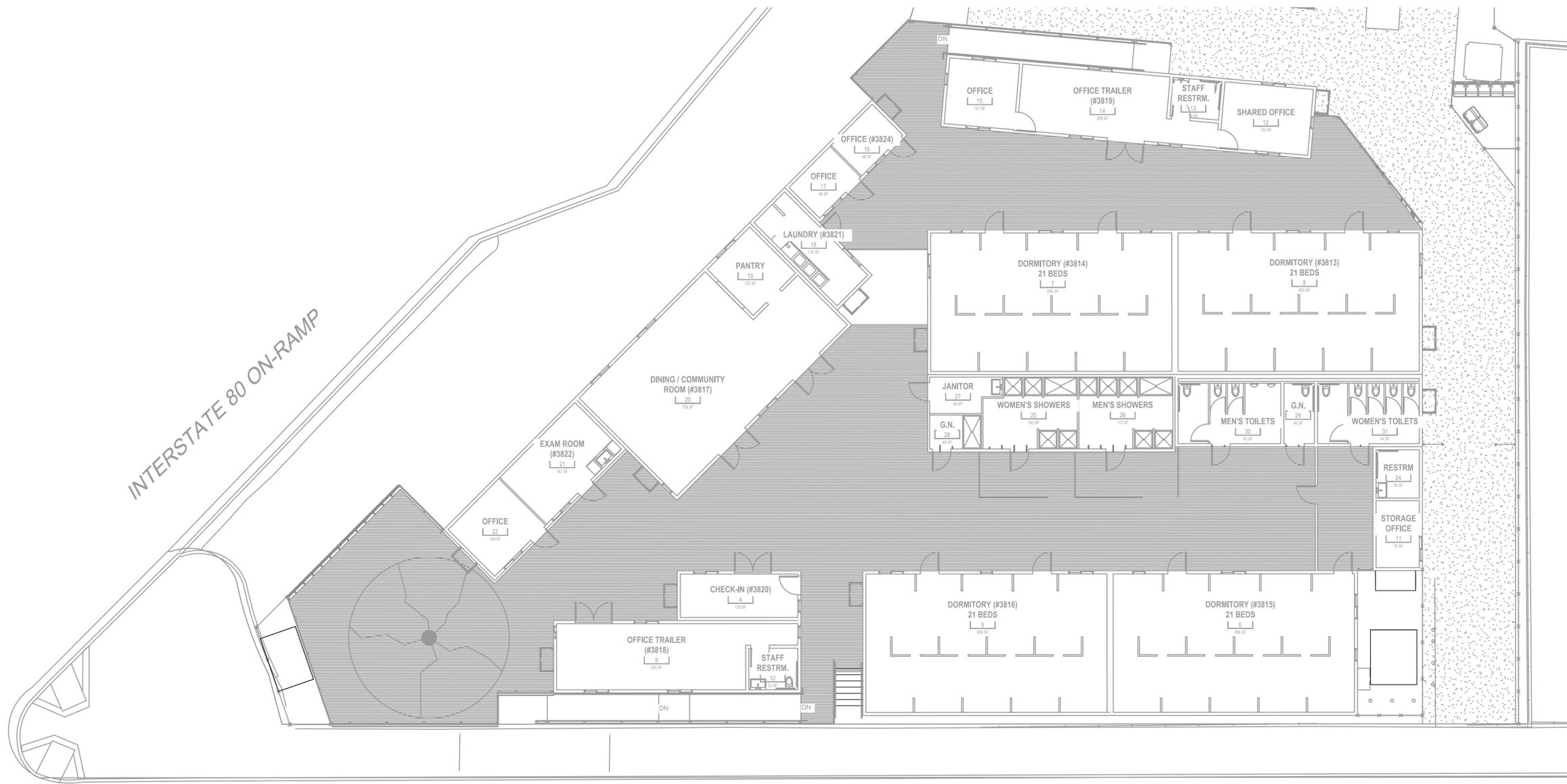
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| Drawn | RC |
| Checked by | KL |

Drawing Title
FIRE PROTECTION SITE PLAN & WATER FLOW DEMAND CALCULATION

Sheet No. **F-0.02**

Project No. **8722A**



SITE PLAN
SCALE: 1" = 10'

BRYANT STREET
(67.85' WIDE)

NOTES:

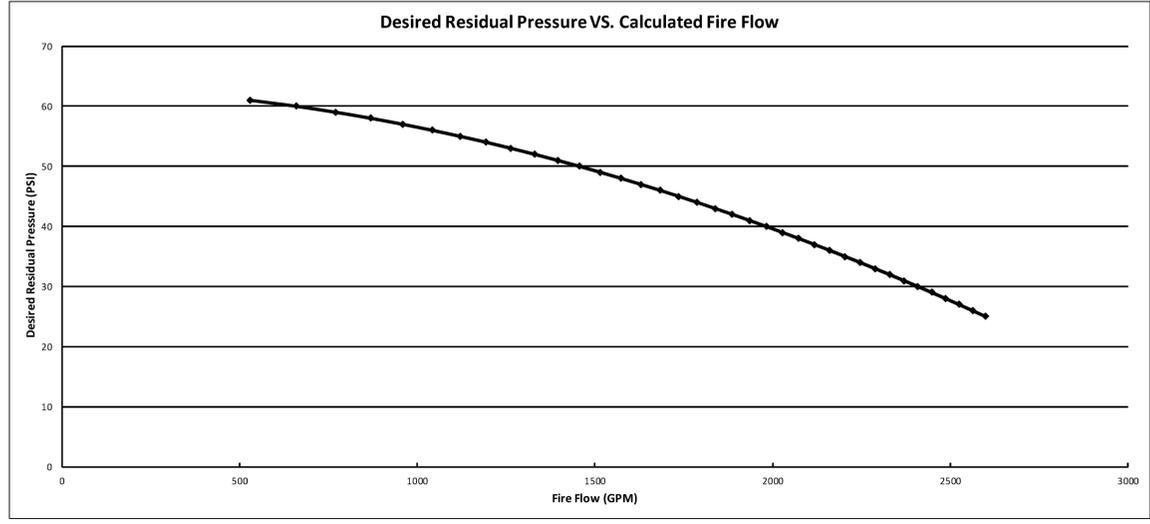
- BUILDING CONSTRUCTION TYPE: V-B
- BUILDING AREA: 12,840 SF (AREA INCLUDES HORIZONTAL PROJECTIONS OF THE ROOF)

 STATIC PRESSURE: 63 PSI (WITH 10% REDUCTION FROM SFFD)
 RESIDUAL PRESSURE: 61 PSI (WITH 10% REDUCTION FROM SFFD)
 FLOW: 530 GPM
 - FIRE FLOW:** MINIMUM FIRE FLOW PER 2016 CFC APPENDIX B, TABLE B105.1 = 3,000 GPM - 3 HOURS
 - FIRE FLOW:** WITH SPRINKLER REDUCTION = 1,500 GPM

CALCULATED FIRE FLOW = 2,778 GPM

CALCULATIONS:

FIRE FLOW CALCULATIONS ARE BASED ON ASPE, FUNDAMENTALS OF PLUMBING DESIGN
 HEAD DROP (FROM STATIC PRESSURE TO DESIRED RESIDUAL PRESSURE OF 20 PSI): 63-20 = 43 PSI
 HEAD LOSS (DURING HYDRANT FLOW): 63-61 = 2 PSI
 FIRE FLOW = (43 / 7)^{0.54} X 530 GPM = 2,778 GPM





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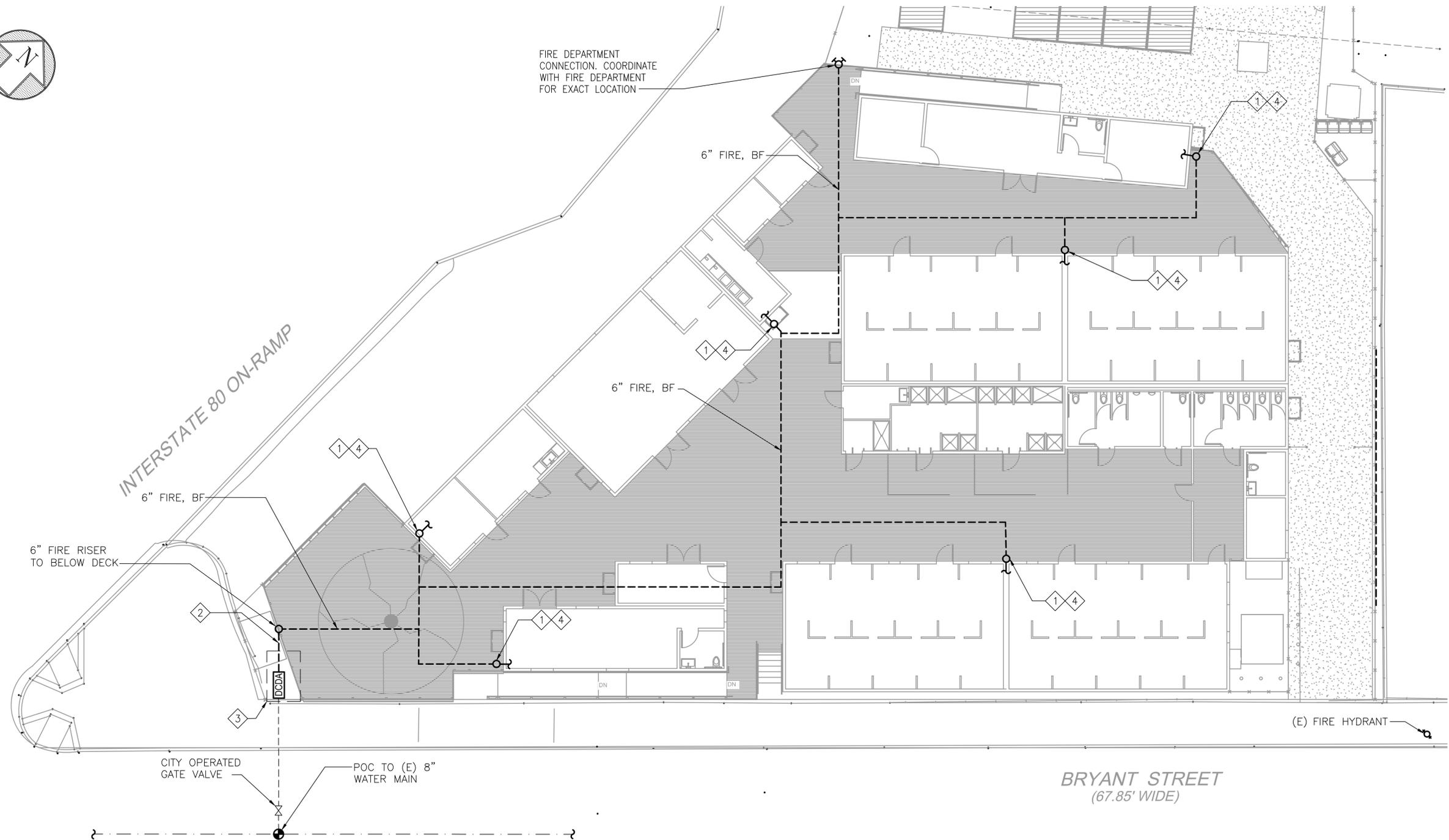
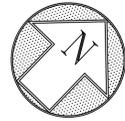
Drawing Title

SITE PLUMBING
FIRE PROTECTION
(DESIGN BUILD)

Sheet No.

F-2.10

Project No. 8722A



SITE PLUMBING – FIRE PROTECTION

SCALE: 1"=10'

GENERAL NOTES:

- THE CONTRACTOR SHALL USE AN APPROVED METHOD TO PERFORM COMPUTERIZED HYDRAULIC CALCULATION BASED ON HYDRANT FLOW TEST RESULTS.
- LOCATIONS OF STUB OUT FOR SPRINKLER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL PIPING AND COORDINATE WITH OTHER TRADES BEFORE INSTALLING ANY PIPING.
- SPRINKLER LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL SPRINKLER LOCATIONS SHALL BE COORDINATED IN THE FIELD BASED ON NFPA 16 SPACING REQUIREMENTS. SPRINKLER SYSTEM SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED IN ACCORDANCE WITH NFPA 16 SPACING REQUIREMENTS.
- DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER ELEMENTS WHICH MAY BE REQUIRED. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, FIXTURES, ETC AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE (E) SITE CONDITIONS AND FEATURES PRIOR TO BID, AND THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, BENDS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE CITY.

SHEET NOTES:

- STUB OUT FOR TRAILER/ WAREHOUSE/MODULAR BUILDING CONNECTION. THIS IS AN APPROXIMATE LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IN THE FIELD AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS PRIOR TO INSTALLATION OF ANY UNDERGROUND AND ABOVE GROUND PIPING.
- FIRE LINE SHALL HAVE MINIMUM 3'-0" SOIL COVERAGE PER NFPA 24. SEE DWG F-6.00 FOR FIRE PROTECTION DETAILS.
- UTILITY PAD WITH BACKFLOW PREVENTER, SFPUC WATER METER, DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), INSPECTOR TEST VALVE, WATER FLOW DETECTOR, MAIN DRAIN VALVE AND OS&Y VALVE WITH SUPERVISORY SWITCH. SEE DWG F-6.00 FOR FIRE PROTECTION DETAILS.
- TRAILER FIRE SPRINKLER RISER. TRAILER FIRE SPRINKLER SYSTEM PROVIDED BY MANUFACTURER.



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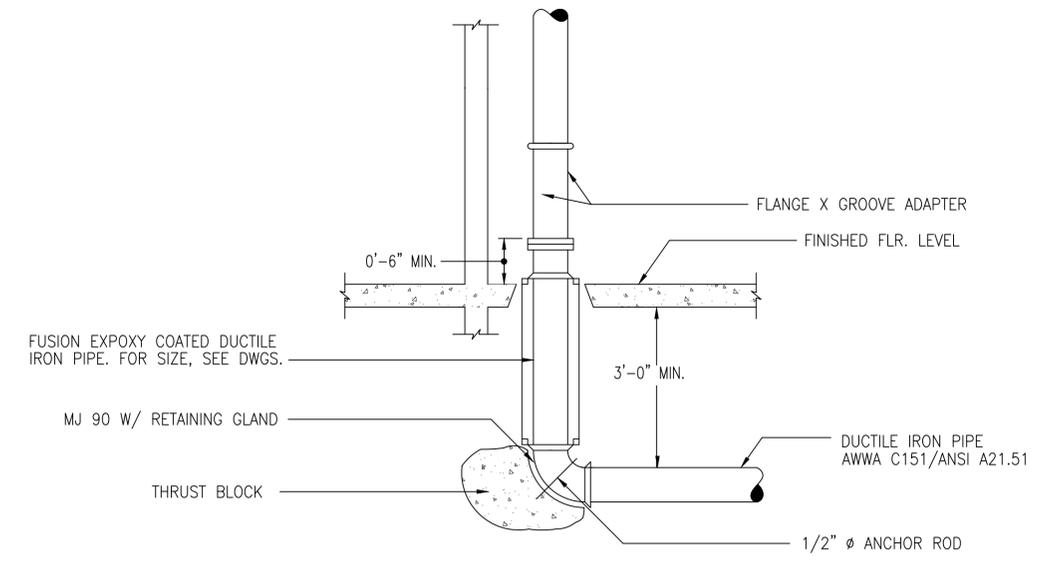
Drawing Title

FIRE PROTECTION DETAILS (DESIGN-BUILD)

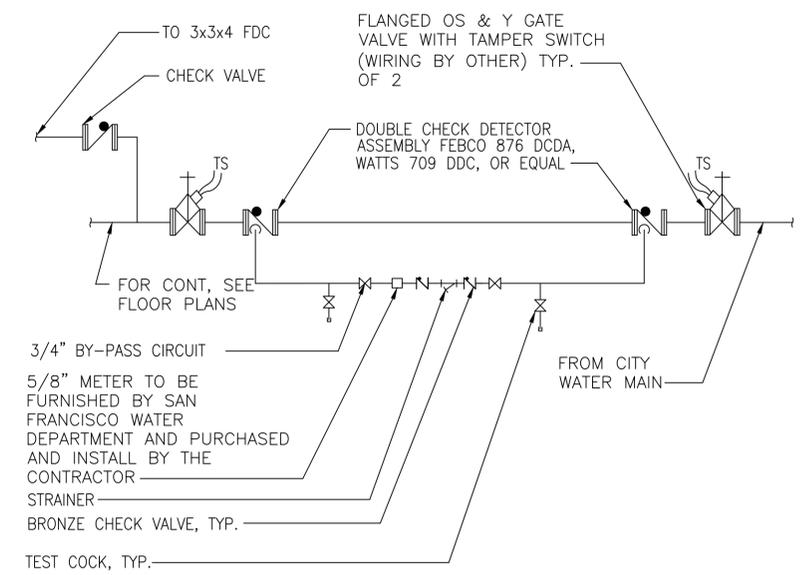
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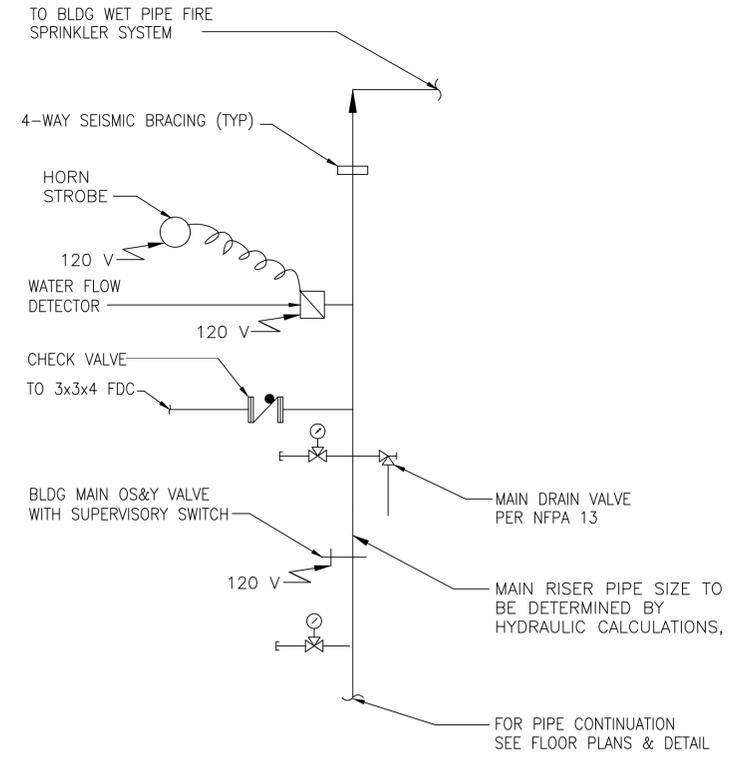
Project No. **8722A**



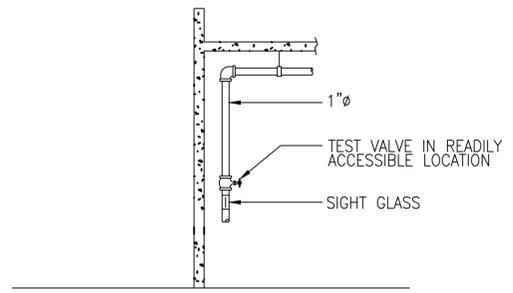
1 FIRE SPRINKLER BASE RISER DIAGRAM
SCALE: NONE



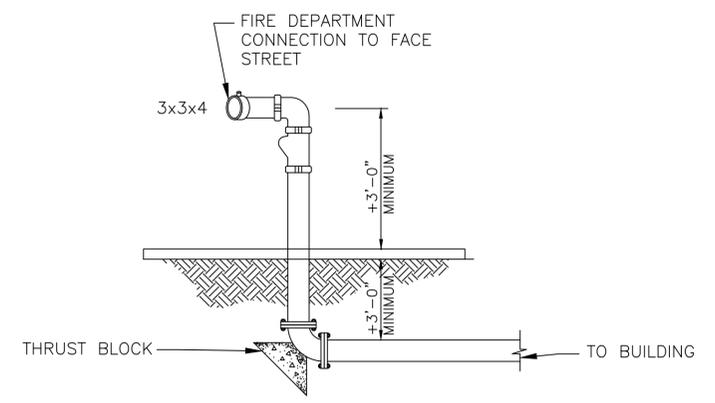
2 DOUBLE CHECK DETECTOR ASSEMBLY
SCALE: NONE



3 ASR RISER DIAGRAM
SCALE: NONE



4 INSPECTOR TEST VALVE ASSEMBLY
SCALE: NONE



5 FIRE DEPARTMENT CONNECTION
SCALE: NONE



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Drawing Title
**PLUMBING ABBREV.
LEGEND, AND
GENERAL NOTES**

Sheet No. **P0.01**

Project No. **8722A**

ABBREVIATIONS

| ABBREV | DESCRIPTION | ABBREV | DESCRIPTION |
|--------|-------------------------------|--------|-------------------------------------|
| @ | AT | ID | INSIDE DIAMETER or INSIDE DIMENSION |
| ¢ | CENTERLINE | IE | INVERT ELEVATION |
| ∅ | DIAMETER, ROUND or PHASE | IFC | IN FURRED CEILING |
| ABV | ABOVE | IFS | IN FURRED SPACE |
| AD | ACCESS DOOR or AREA DRAIN | IFW | IN FURRED WALL |
| AFF | ABOVE FINISHED FLOOR | IN | INCH |
| AG | ABOVE GRADE | INV | INVERT |
| AMPS | AMPERES | JS | JANITOR SINK |
| AP | ACCESS PANEL | KW | KILOWATTS |
| ARCH | ARCHITECT or ARCHITECTURAL | LAV | LAVATORY |
| AUTO | AUTOMATIC | LBS | POUNDS |
| AVG | AVERAGE | LF | LINEAR FEET |
| BEL | BELOW | LG | LENGTH |
| BF | BELOW FLOOR | LVL | LEVEL |
| BFP | BACKFLOW PREVENTER | LWT | LEAVING WATER TEMPERATURE |
| BG | BELOW GRADE | M | WATER METER |
| BOF | BOTTOM OF FOOTING | MBH | THOUSAND BTU PER HOUR |
| BHP | BRAKE HORSEPOWER | MECH | MECHANICAL |
| BLDG | BUILDING | MFR | MANUFACTURER |
| BS | BELOW SLAB | MH | MANHOLE |
| BSMT | BASEMENT | MIN | MINIMUM |
| BTU | BRITISH THERMAL UNIT | MISC | MISCELLANEOUS |
| BTUH | BRITISH THERMAL UNIT PER HOUR | MTD | MOUNTED |
| CAP | CAPACITY | MXV | MIXING VALVE |
| CAT | CATEGORY | (N) | NEW |
| CB | CATCH BASIN | NA | NOT APPLICABLE |
| CF | CAPPED FOR FUTURE | NIC | NOT IN CONTRACT |
| CFH | CUBIC FEET PER HOUR | NO | NORMALLY OPEN |
| CI | CAST IRON | NTS | NOT TO SCALE |
| CLG | CEILING | O | OPEN |
| CO | CLEAN OUT | OC | ON CENTER |
| CONC | CONCRETE | OPER | OPERATING |
| CONN | CONNECT or CONNECTION | OPP | OPPOSITE |
| CONT | CONTINUATION | ORD | OVERFLOW ROOF DRAIN |
| COTG | CLEAN OUT TO GRADE | P | PUMP |
| CTE | CONNECT TO EXISTING | PD | POOL DRAIN |
| DCW | DOMESTIC COLD WATER | PDI | PLUMBING AND DRAINAGE INSTITUTE |
| DCDA | DOUBLE CHECK DETECTOR | PH | PHASE |
| DHW | DOMESTIC HOT WATER | POC | POINT OF CONNECTION |
| DHWR | DOMESTIC HOT WATER RETURN | PRV | PRESSURE REDUCING VALVE |
| DIA | DIAMETER | PSI | POUNDS PER SQUARE INCH |
| DIM | DIMENSION | PSIG | POUNDS PER SQUARE INCH GAUGE |
| DN | DOWN | QTY | QUANTITY |
| DS | DOWNSPOUT | RCP | RADIANT CONTROL PANEL |
| DTL | DETAIL | RD | ROOF DRAIN |
| DWG | DRAWING | REF | REFERENCE |
| DWV | DRAINAGE WASTE AND VENT | REQD | REQUIRED |
| (E) | EXISTING | RM | ROOM |
| EA | EACH | RPM | REVOLUTIONS PER MINUTE |
| EEW | EMERGENCY EYE WASH | RS | RELIEF SWITCH |
| EFF% | EFFICIENCY (PERCENTAGE) | RW | (HARVESTED) RAINWATER |
| ELEC | ELECTRIC or ELECTRICAL | RWP | (HARVESTED) RAINWATER PUMP |
| EL | ELEVATION | S | SEWER |
| ENGR | ENGINEER | SAD | SEE ARCHITECTURAL DRAWINGS |
| EQ | EQUAL | SCHED | SCHEDULE |
| EQPT | EQUIPMENT | SD | STORM DRAIN |
| ET | EXPANSION TANK | SF | SQUARE FEET |
| EWH | ELECTRIC WATER HEATER | SFD | SEE FIRE PROTECTION DRAWINGS |
| EWT | ENTERING WATER TEMPERATURE | SHT | SHEET |
| (F) | FUTURE | SJ | SEISMIC JOINT |
| F | DEGREE FAHRENHEIT | SK | SINK |
| FAVT | FRESH AIR VENT TRAP | SL | SLOPE |
| FC | FLEXIBLE CONNECTION | SLAD | SEE LANDSCAPE ARCHITECT DRAWINGS |
| FCO | FLOOR CLEANOUT | SMD | SEE MECHANICAL DRAWINGS |
| FD | FLOOR DRAIN | SP | SWIMMING POOL |
| FF | FINISHED FLOOR | SPECS | SPECIFICATIONS |
| FIN | FINISHED | SQ | SQUARE |
| FLA | FULL LOAD AMPS | SS | SANITARY SEWER |
| FLR | FLOOR | SSK | SERVICE SINK |
| FPS | FEET PER SECOND | SST | STAINLESS STEEL |
| FRE | FIRE RATED ENCLOSURE | STRCT | STRUCTURAL |
| FT | FEET | SYST | SYSTEM |
| FU | FIXTURE UNIT | TD | TRENCH DRAIN |
| GA | GAUGE | TDH | TOTAL DYNAMIC HEAD |
| GAL | GALLONS | TEMP | TEMPERATURE |
| GALV | GALVANIZED | TP | TRAP PRIMER or TOTAL PRESSURE |
| GC | GENERAL CONTRACTOR | TYP | TYPICAL |
| GEN | GENERAL | UG | UNDERGROUND |
| GND | GROUND | UON | UNLESS OTHERWISE NOTED |
| GPF | GALLONS PER FLUSH | UR | URINAL |
| GPH | GALLONS PER HOUR | V | SANITARY VENT or VOLTS |
| GPM | GALLONS PER MINUTE | VEL | VELOCITY |
| GRD | GRADE | VIF | VERIFY IN FIELD |
| GSM | GALVANIZED SHEET METAL | VOL | VOLUME |
| GWH | GAS-FIRED WATER HEATER | VR | VENT RISE |
| HC | HANDICAPPED or HEATING COIL | VTR | VENT THROUGH ROOF |
| HD | HEAD or HUB DRAIN | W | WASTE or WATTS |
| HP | HORSEPOWER | WC | WATER CLOSET |
| HR | HOUR | WCO | WALL CLEANOUT |
| HT | HEIGHT or HEAT TRACE | WH | WATER HEATER or WALL HYDRANT |
| HTR | HEATER | WHA | WATER HAMMER ARRESTER |
| HZ | HERTZ | WM | WATER METER |

SYMBOLS AND LEGEND

| SYMBOL | ABBREV | DESCRIPTION | SYMBOL | ABBREV | DESCRIPTION |
|--------|---------|---|--------|--------|---|
| | | DETAIL NUMBER | | CR | CONCENTRIC REDUCER |
| | | DRAWING NUMBER | | ER | ECCENTRIC REDUCER |
| | | EQUIPMENT TYPE | | UN | UNION |
| | | EQUIPMENT NUMBER | | FC | FLEXIBLE PIPE CONNECTOR |
| | | RISER TYPE | | PG | PIPE GUIDE |
| | | RISER NUMBER | | PA | PIPE ANCHOR |
| | | SHEET NOTE TAG | | DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| | | DEMOLITION | | RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| | | THICK LINE REPRESENTS NEW WORK AND THIN LINE REPRESENTS EXISTING WORK | | RV | RELIEF VALVE |
| | POC | POINT OF CONNECTION | | PTRV | PRESSURE AND TEMPERATURE RELIEF VALVE |
| | (E) | EXISTING LINE | | NO | NORMALLY OPEN TYPE OF VALVE INDICATED |
| | | PIPE RISER/PIPE UP | | NC | NORMALLY CLOSED VALVE OF TYPE INDICATED |
| | | PIPE DROP/PIPE DOWN | | SOV | SHUT-OFF VALVE |
| | | BRANCH TOP PIPE CONNECTION | | | SHUT-OFF VALVE RISER |
| | | BRANCH BOTTOM PIPE CONNECTION | | AV | ANGLE VALVE |
| | | PIPE CAPPED | | GV | GATE VALVE |
| | | FLOW IN DIRECTION OF ARROW | | GC | GAS COCK |
| | | PIPE SLOPE DOWN IN DIRECTION OF ARROW | | PV | PLUGGED VALVE |
| | | LINE CONTINUED | | CV | CHECK VALVE |
| | | PIPING OF TYPE INDICATED BELOW FLOOR OR BELOW GRADE | | SCV | SILENT CHECK VALVE |
| | | PIPING OF TYPE INDICATED ABOVE FLOOR OR ABOVE CEILING | | PRV | PRESSURE REDUCING VALVE |
| | SS | SANITARY SEWER OR WASTE PIPING | | SV | SOLENOID VALVE |
| | V | SANITARY VENT | | SGV | SEISMIC GAS SHUT-OFF VALVE |
| | SD | STORM DRAIN PIPING | | MV | MIXING VALVE |
| | OFD | OVERFLOW STORM DRAIN PIPING | | FS | FLOW SWITCH |
| | CD | CONDENSATE DRAIN PIPING | | PS | PRESSURE SWITCH |
| | DCW | DOMESTIC COLD WATER PIPING | | AST | AQUASTAT |
| | DHW | DOMESTIC HOT WATER PIPING | | WHA | WATER HAMMER ARRESTER |
| | DHWR | DOMESTIC HOT WATER RETURN PIPING | | HB | HOSE BIBB |
| | RW | (HARVESTED) RAINWATER | | | PUMP |
| | TW | DOMESTIC TEMPERED WATER PIPING | | | BLIND FLANGE |
| | G | GAS PIPING - LOW PRESSURE | | BV | BALANCING VALVE - DHW |
| | TP | TRAP PRIMER PIPING | | LPS | LOW PRESSURE STEAM |
| | AD/FD | AREA DRAIN/FLOOR DRAIN | | HPS | HIGH PRESSURE STEAM |
| | RD/ORD | ROOF DRAIN/OVERFLOW ROOF DRAIN | | CHS | CHILLED WATER SUPPLY |
| | RR | ROOF RECEPTOR | | CHR | CHILLED WATER RETURN |
| | FS | FLOOR SINK - LESS GRATE | | CR | CONDENSATE RETURN |
| | FS | FLOOR SINK - HALF GRATE | | D | DRAIN |
| | FS | FLOOR SINK - FULL GRATE | | TF | TEST FITTING |
| | FCO/GCO | FLOOR CLEANOUT/GRADE CLEANOUT | | TH | THERMOMETER |
| | CO/WCO | CLEANOUT/WALL CLEANOUT | | GLV | GLOBE VALVE |
| | | | | FCV | FLOW CONTROL VALVE |
| | | | | MGV | GATE VALVE W/ MOTORIZED ACTUATOR |
| | | | | MW | MAKE-UP WATER |
| | | | | A | COMPRESSED AIR PIPING |
| | | | | S | SOIL OR WASTE PIPE ABOVE GRADE |
| | | | | S | SOIL OR WASTE PIPE BELOW GRADE |

GENERAL NOTES

- LEGENDS ARE GENERIC STANDARDS, AND MAY DEPICT ITEMS NOT APPLICABLE TO THIS JOB.
- BACKGROUNDS ARE FOR CONCEPTUAL REFERENCE AND MAY NOT BE CURRENT. SEE APPROPRIATE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS. PIPES ROUTING IS SHOWN AS A GUIDE AND SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE BUT MAY BE MODIFIED AS NECESSARY TO MEET ACTUAL FIELD CONDITIONS AND INTERFERENCES. VERIFY WITH THE PROJECT ARCHITECT/ENGINEER.
- VERIFY AT PROJECT SITE, EXACT SIZE, LOCATION, AND CLEARANCE OF EXISTING SERVICES.
- VERIFY EXACT-INVERT ELEVATION OF POINTS OF CONNECTION TO EXISTING SERVICES PRIOR TO INSTALLATION OF NEW BRANCH, MAINS, OR SERVICE RELOCATION.
- EXISTING EQUIPMENT PIPING ARE SHOWN ONLY WHERE NECESSARY TO ESTABLISH RELATIONSHIP OR CONNECTION POINTS WITH NEW WORK. NOT ALL EXISTING PIPING AND EQUIPMENT ARE SHOWN.
- UPON REMOVAL OF EXISTING FIXTURES, REMOVE CONNECTED BRANCH PIPING AND CAP AT MAIN.
- INSTALL PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE WORK OF OTHER TRADES. THE DRAWING ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR EXACT LOCATIONS.
- THE GENERAL LAYOUT OF PIPING ON THE DRAWINGS INDICATES BRANCH RUNOUTS TERMINATED AT INDIVIDUAL GROUPS OF EQUIPMENT. THE PIPING SHALL BE CONSIDERED CONTINUOUS AND FINALLY CONNECTED TO ALL EQUIPMENT.
- ALL REFERENCES TO BRAND NAMES OR TRADE NAMES ON THIS SHEET INCLUDES THE PHRASE "OR EQUAL." SEE SECTIONS 106.12 AND 106.13 OF THE STANDARD SPECIFICATIONS.
- ALL ITEMS NOT LABELLED AS EXISTING SHALL BE BID AND INSTALLED AS NEW.
- ALL DEMOLISHED ITEMS SHALL BE REMOVED AND DISPOSED OF AS THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED.



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| DESIGNED BY: | KL/RC | DATE: 03/2018 |
| DRAWN BY: | RC | 03/2018 |
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Drawing Title
 PLUMBING
 GENERAL NOTES

Sheet No.
 P0.02

Project No.
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GENERAL NOTES

- LEGENDS ARE GENERIC STANDARDS, AND MAY DEPICT ITEMS NOT APPLICABLE TO THIS JOB.
- BACKGROUNDS ARE FOR CONCEPTUAL REFERENCE AND MAY NOT BE CURRENT. SEE APPROPRIATE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS. PIPE ROUTING IS SHOWN AS A GUIDE AND SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE BUT MAY BE MODIFIED AS NECESSARY TO MEET ACTUAL FIELD CONDITIONS AND INTERFERENCES. VERIFY WITH THE PROJECT ARCHITECT/ENGINEER.
- VERIFY AT PROJECT SITE, EXACT SIZE, LOCATION, AND CLEARANCE OF EXISTING SERVICES.
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- ALL ITEMS NOT LABELLED AS EXISTING SHALL BE BID AND INSTALLED AS NEW.
- ALL DEMOLISHED ITEMS SHALL BE REMOVED AND DISPOSED OF AS THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED.
- COORDINATE INSTALLATION OF UTILITIES WITH SIDEWALK REPLACEMENT. ALIGN TOP OF UTILITIES BOXES WITH TOP OF NEW SIDEWALK. UTILITY BOXES SHALL BE INSTALLED PARALLEL AND SQUARE TO SIDEWALK CURB AND BUILDING.
- PLUMBING SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
 - CITY AND COUNTY OF SAN FRANCISCO BUILDING CODE, 2016 EDITION.
 - NFPA 30 "FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE".
 - NFPA 31 "STANDARD FOR THE INSTALLATION OF OIL BURNING EQUIPMENT".
 - NFPA 37 "STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND TURBINES.
 - NFPA 54 "NATIONAL FUEL GAS CODE".
 - CALIFORNIA TITLE 24, ADA REQUIREMENTS, AND CITY AND COUNTY OF SAN FRANCISCO ACCESSIBILITY STANDARDS FOR DISABLED ACCESS
- FAUCETS, PIPES, VALVES AND PLUMBING FITTINGS SHALL BE "LEAD FREE" AND RECEIVE CERTIFICATION FROM AN INDEPENDENT, ANSI APPROVED, THIRD PARTY TESTING ORGANIZATION. THIS REQUIRES THAT FAUCETS, PIPES, VALVES, FITTINGS, AND ETC. INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION MUST NOT EXCEED A TOTAL WEIGHTED AVERAGE OF 0.25% MAXIMUM LEAD CONTENT. PRODUCTS SHALL BE AB1953 AND NSF-61 ANNEX G CERTIFIED.
- ALL MATERIALS USED IN PLUMBING PRODUCTS, SUCH AS SEALS AND GASKETS THAT COME IN CONTACT WITH WATER, SHALL BE OF A CHLORAMINE RESISTANT MATERIAL THESE MATERIALS SHALL BE A HIGH QUALITY RUBBER (SYNTHETIC POLYMER) OR EPDM FOR ALL WETTED COMPONENTS, MATERIALS SHALL BE NSF61 CERTIFIED FOR POTABLE WATER USE.
- THE GENERAL LAYOUT OF PIPING SHOWN ON THE DRAWINGS INDICATES BRANCH RUNOUTS TERMINATED AT INDIVIDUAL OR GROUPS OF PLUMBING FIXTURES AND EQUIPMENT. THE PIPING SHALL BE CONSIDERED CONTINUOUS AND FINALLY CONNECTED TO THE PLUMBING FIXTURE(S) AND EQUIPMENT. SEE PLUMBING FIXTURE SCHEDULE FOR ROUGH-IN PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES.

GENERAL NOTES (CONT.)

- DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER ELEMENTS WHICH MAY BE REQUIRED. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING ETC. AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- FOR ANY CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. ANY SUCH CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO THE CONSTRUCTION OF SUCH ITEMS.
- FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
- CLOSELY COORDINATE WORK WITH ALL TRADES.
- FOR EXACT LOCATIONS OF PLUMBING FIXTURES, SEE ARCHITECTURAL DRAWINGS.
- FOR EXACT LOCATIONS OF FLOOR DRAINS, FLOOR SINKS AND ROOF DRAINS, SEE ARCHITECTURAL DRAWINGS AND DETAILS.
- FOR PIPING PENETRATING THROUGH, UNDER AND PARALLEL TO GRADE BEAMS, TIE BEAMS AND FOOTINGS, SEE STRUCTURAL DETAILS. FOR PIPE INSTALLATION OTHER THAN SHOWN ON STRUCTURAL DETAILS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- LOCATIONS OF ALL PIPE PENETRATIONS THROUGH EXISTING AND NEW BEAMS, CONCRETE WALLS AND FLOORS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- PROVIDE STEEL PIPE SLEEVES WHERE PIPES PASS THROUGH NEW CONCRETE SHEAR WALLS. CORE DRILL WHERE PIPES PASS THROUGH EXISTING CONCRETE WALLS. REFER TO STRUCTURAL DRAWINGS AND STRUCTURAL DETAILS FOR PIPE SLEEVE REQUIREMENTS. REFER TO STRUCTURAL DRAWINGS FOR CLEARANCE REQUIREMENTS BETWEEN SLEEVES AND PIPES.
- ALL PLUMBING EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.
- ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED PIPING ONLY ALLOWED WHERE SHOWN ON THE DRAWINGS.
- KEEP ALL PIPING AS HIGH AS POSSIBLE TO STRUCTURE ABOVE AND OFFSET AS REQUIRED.
- INSTALL ACCESS PANELS IN ALL NON-ACCESSIBLE CEILINGS AND WALLS FOR ACCESS TO VALVES, CLEANOUTS AND OTHER MAINTENANCE ITEMS. REFER TO ARCHITECTURAL PLANS FOR TYPE OF CEILINGS AND WALLS. INSTALL FIRE RATED ACCESS PANELS IN FIRE RATED CEILINGS AND WALLS. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS OF ACCESS PANELS.
- WHERE MAIN PIPE SIZE IS NOT INDICATED BETWEEN BRANCH CONNECTIONS IN THE DRAWING, THE PIPE SIZE SHALL BE OF THE LARGER PRECEDING PIPE SIZE.
- ALL VALVES AND ACCESSORIES SHALL BE FULL LINE SIZE. PROVIDE ALL NECESSARY UNIONS, REDUCERS AND STOPS REQUIRED WHEN CONNECTING TO EACH FIXTURE AND/OR EQUIPMENT.
- PROVIDE CLEANOUTS ON DRAINAGE LINES IN ACCORDANCE WITH THE PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.
- ALL HORIZONTAL STORM DRAINAGE PIPING WITHIN BUILDING FOOTPRINT SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED ON THE DRAWING.
- ALL HORIZONTAL SANITARY WASTE PIPING WITHIN THE BUILDING FOOTPRINT SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED ON THE DRAWING.
- PROVIDE INDIVIDUAL SHUT-OFF VALVE/SUPPLY STOP TO ALL PLUMBING FIXTURES AND EQUIPMENT.
- SET RIMS OF FLOOR SINKS FLUSH WITH FINISHED FLOOR, UNLESS OTHERWISE NOTED.

GENERAL NOTES (CONT.)

- ALL FLOOR MOUNTED PLUMBING EQUIPMENT SHALL BE ON CONCRETE HOUSEKEEPING PADS. THE HOUSEKEEPING PADS SHALL BE AT LEAST 6" WIDER ON ALL SIDES THAN THE EQUIPMENT THEY SUPPORT AND SHALL BE A MINIMUM 6" THICK. MAKE ALLOWANCE FOR EQUIPMENT ANCHOR BOLT DISTANCES FROM EDGE OF PAD. COORDINATE HOUSEKEEPING PAD LOCATIONS AND SIZES WITH ALL TRADES. REFER TO STRUCTURAL DRAWINGS FOR DETAILS ON HOUSEKEEPING PADS.

SEISMIC BRACING NOTES

- PIPE SUPPORTS, ANCHORAGES AND SEISMIC BRACINGS FOR PLUMBING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS IF THE 2010 CALIFORNIA BUILDING CODE. REFER TO STRUCTURAL ENGINEERING DRAWINGS AND MECHANICAL SPECIFICATION SECTION 22 05 29 HANGERS AND SUPPORTS FOR PLUMBING FOR DETAIL REQUIREMENTS.
- CONTRACTOR SHALL RETAIN STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA TO PROVIDE DESIGNS AND ENGINEERING FOR PLUMBING SYSTEMS AND EQUIPMENT SUPPORTS, ANCHORAGE AND SEISMIC BRACING REQUIRED BY THE PROJECT. CONTRACTOR SHALL REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL INFORMATION OF THE BUILDING. CONTRACTOR SHALL REFER TO PLUMBING DRAWINGS FOR GENERIC PLUMBING SYSTEMS DETAIL FOR REFERENCE THAT DEPICTS THE DESIGN INTENTS REQUIRED BY THE PROJECT. SIZES SHOWN ON DRAWINGS REPRESENT MINIMUM SIZE ONLY. ADEQUACY TO BE VERIFIED AND FINAL DESIGN AND ENGINEERING TO BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ADDITIONAL FRAMING MEMBERS AS REQUIRED TO DISTRIBUTE APPLIED LOADS TO BUILDING STRUCTURE.
- CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION, SEISMIC BRACING, PIPE SUPPORTS AND ANCHORAGE LOAD CALCULATIONS AND SHOP DRAWINGS WITH INSTALLATION DETAILS FOR EQUIPMENT, CONDUITS, PIPING AND EQUIPMENT AND PLUMBING SYSTEM ANCHORAGES, SEISMIC BRACING, SEISMIC BRACING CONNECTION DETAIL(S), SEISMIC BRACING CONNECTION TO STRUCTURE DETAIL(S) AND SEISMIC BRACING SPACING LAY-OUT DRAWINGS FOR REVIEW AND APPROVAL. ALL SUBMITTALS INCLUDING DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
- ARCHITECT/ENGINEER WILL REVIEW PROPOSED LOADS TO STRUCTURE BASED UPON SUBMITTED INFORMATION. BASED UPON THIS REVIEW, MODIFICATION TO ANCHORAGE DETAILS MAY BE REQUIRED SO THAT THE BUILDING STRUCTURE IS NOT OVERLOADED.



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| | DRAWN BY: | RC 03/2018 |
| | CHECKED BY: | KL 03/2018 |
| APPROVED | | |
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Drawing Title

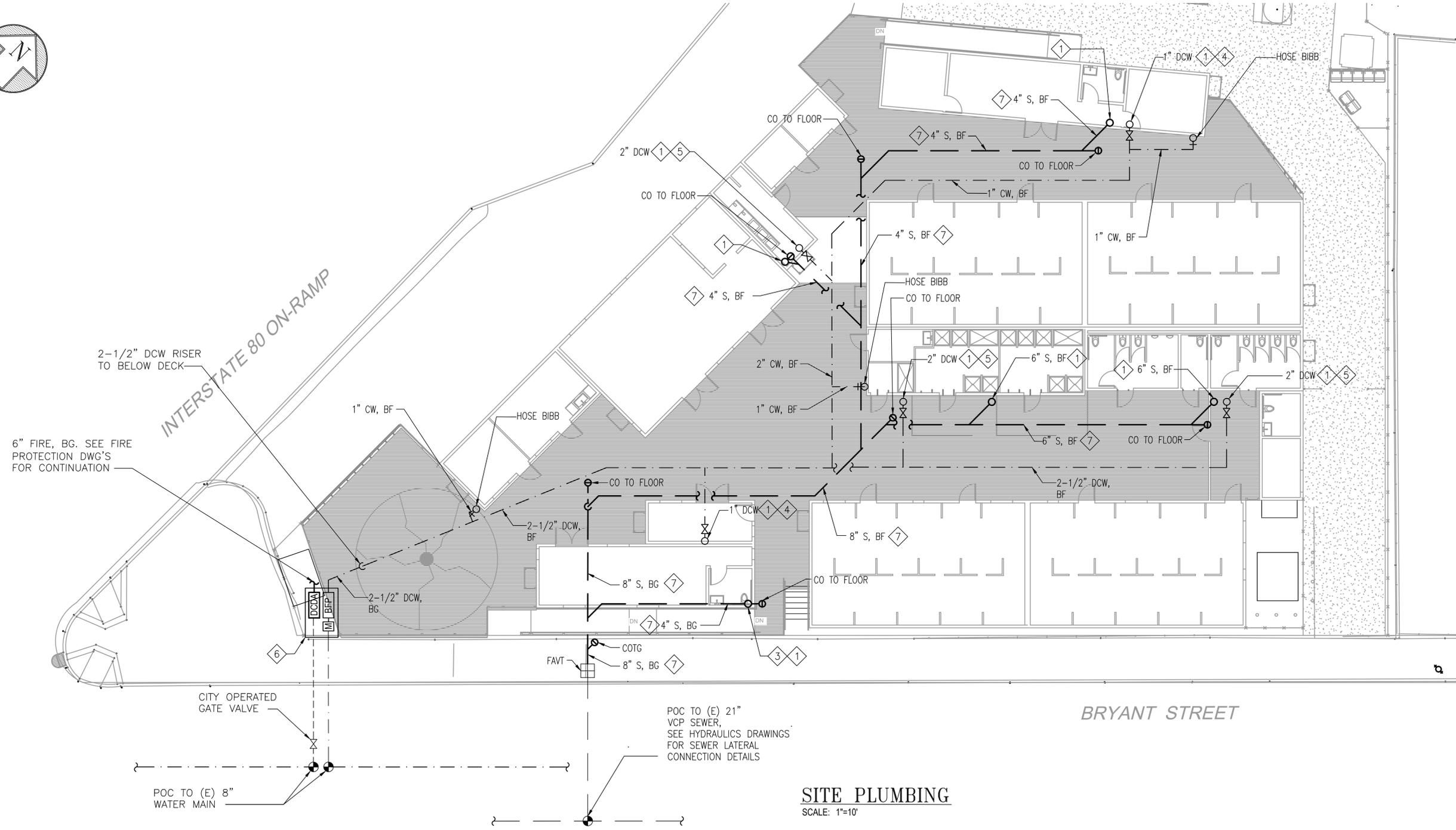
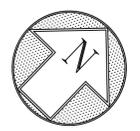
SITE PLUMBING

Sheet No.

P2.10

Project No.

8722A



SITE PLUMBING
SCALE: 1"=10'

GENERAL NOTES:

- DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER ELEMENTS WHICH MAY BE REQUIRED. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, FIXTURES, ETC AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE (E) SITE CONDITIONS AND FEATURES PRIOR TO BID, AND THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, BENDS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE CITY.
- THE BOTTOM OF THE DCW PIPE, AT ALL POINTS, SHALL HAVE AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER OR DRAIN LINE, AND AT LEAST 12" AWAY FROM THE SEWER LINE OR DRAIN LINE PER PLUMBING CODE.
- FAUCETS, PIPES, VALVES AND PLUMBING FITTINGS SHALL BE "LEAD FREE" AND RECEIVE CERTIFICATION FROM AN INDEPENDENT, ANSI APPROVED, THIRD PARTY TESTING ORGANIZATION. THIS REQUIRES THAT FAUCETS, PIPES, VALVES, FITTINGS AND ETC. INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION MUST NOT EXCEED A TOTAL WEIGHTED AVERAGE OF 0.25% MAXIMUM LEAD CONTENT. PRODUCTS SHALL BE AB1953 AND NSF-61 ANNEX G CERTIFIED.

SHEET NOTES:

- STUB OUT FOR FUTURE TRAILER/ WAREHOUSE/MODULAR BUILDING CONNECTION. THIS IS AN APPROXIMATE LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IN THE FIELD AND COORDINATE WITH OTHER TRADE TO AVOID CONFLICTS PRIOR TO INSTALLATION OF ANY UNDERGROUND AND ABOVE GROUND PIPING.
- 6" SEWER, BG
- 4" SEWER, BG
- 1" CW WITH ISOLATION SHUT-OFF VALVE INSTALL A DIAPHRAGM TYPE WATER HAMMER ARRESTER FOR THE BUILDING. UNIT SHALL BE SIZED PER FIXTURE COUNTS PER PLUMBING CODE.
- 2" CW WITH ISOLATION SHUT-OFF VALVE. INSTALL A DIAPHRAGM TYPE WATER HAMMER ARRESTER FOR THE BUILDING. UNIT SHALL BE SIZED PER FIXTURE COUNTS PER PLUMBING CODE.
- UTILITY PAD WITH BACKFLOW PREVENTER, SFPUC WATER METER, DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), INSPECTOR TEST VALVE, WATER FLOW DETECTOR, MAIN DRAIN VALVE AND OS&Y VALVE WITH SUPERVISORY SWITCH. SEE DWG F-6.00 FOR FIRE PROTECTION DETAILS.
- WASTE PIPES SHALL HAVE 1/4" PER FOOT SLOPE.



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Project

5th & Bryant
 Navigation Center

680 BRYANT STREET,
 SAN FRANCISCO, CA 94107

Consultant



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| DRAWN BY: | RC | DATE | 03/2018 |
| CHECKED BY: | KL | DATE | 03/2018 |
| APPROVED | | | |
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| DIVISION MANAGER: | | DATE: | |

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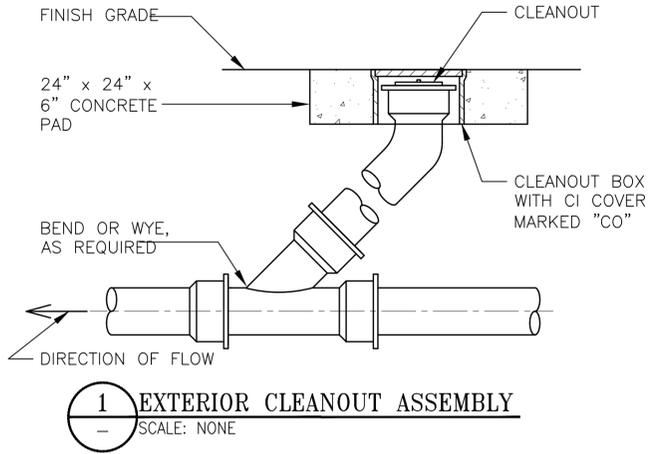
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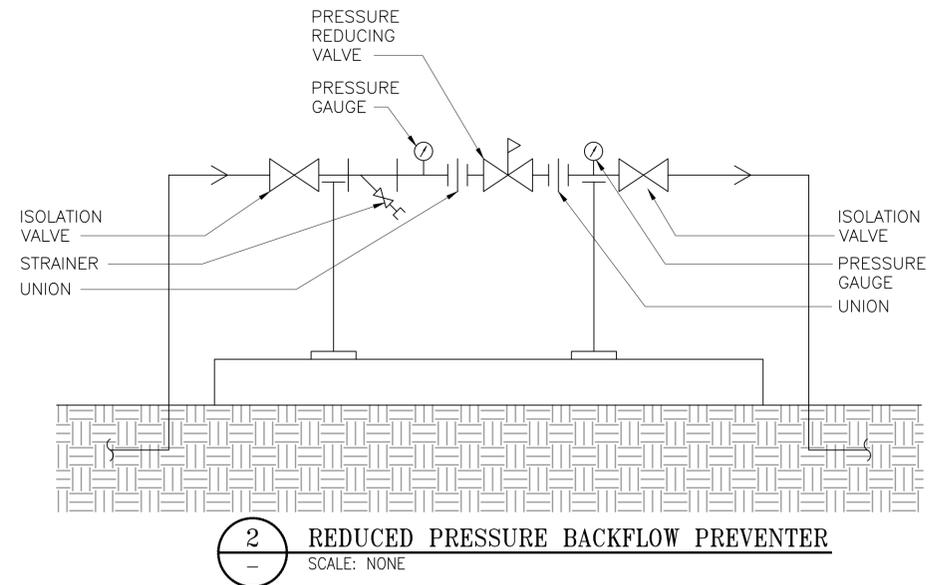
PLUMBING DETAILS

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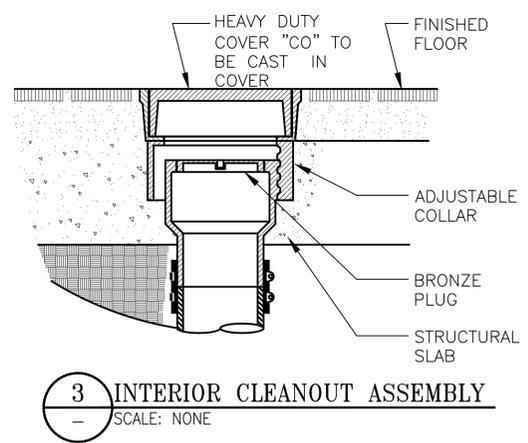
Project No. **8722A**



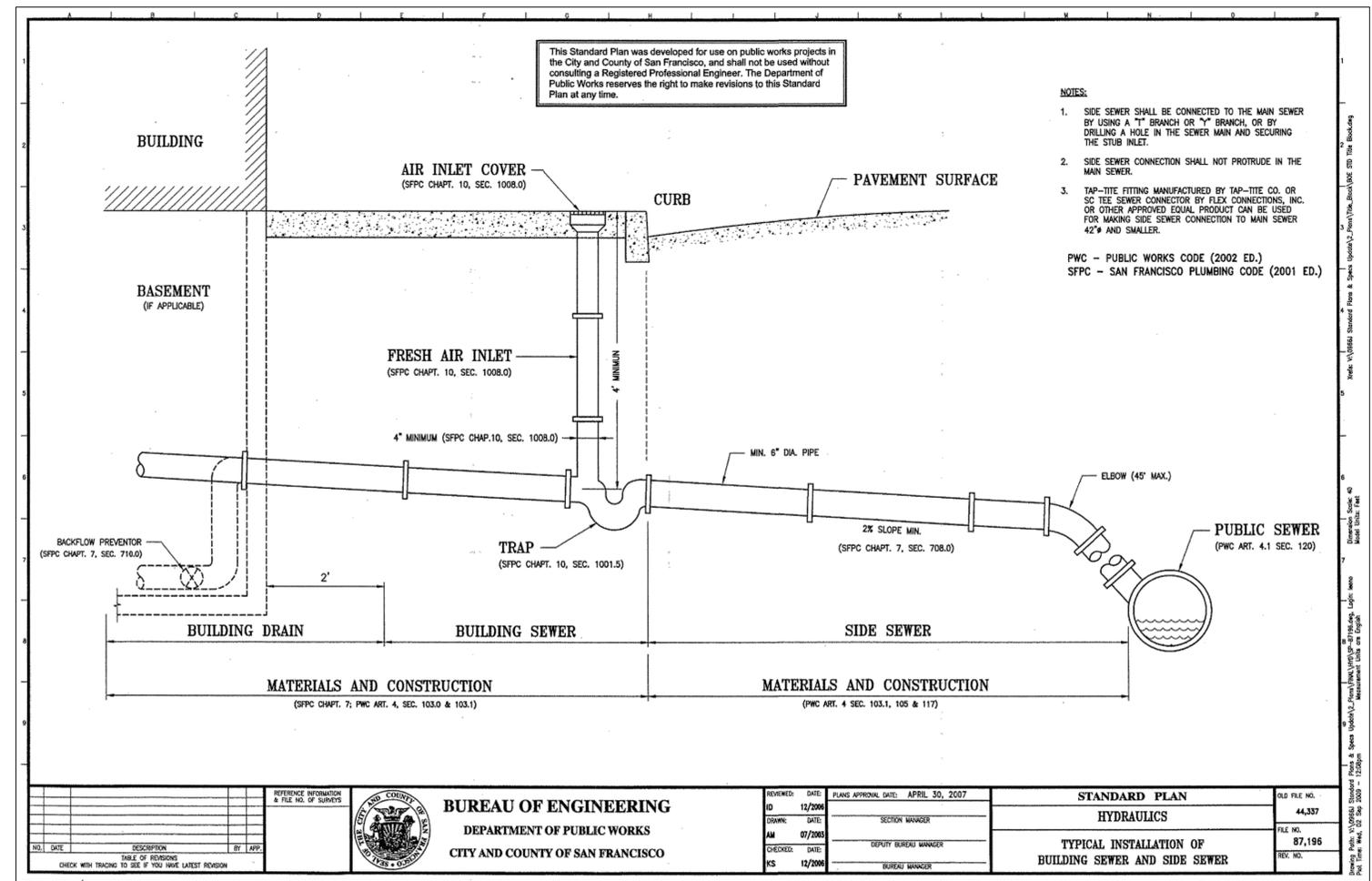
1 EXTERIOR CLEANOUT ASSEMBLY
 SCALE: NONE



2 REDUCED PRESSURE BACKFLOW PREVENTER
 SCALE: NONE



3 INTERIOR CLEANOUT ASSEMBLY
 SCALE: NONE



4 FRESH AIR VENT TRAP DETAIL
 SCALE: NONE

| | | | | | | |
|---|--|---|---|---|---|---|
| REFERENCE INFORMATION & FILE NO. OF SURVEYS NO. DATE DESCRIPTION BY APP. | | BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO | REVISION: DATE: 12/2006 DRAWN: DATE: 07/2003 CHECKED: DATE: 12/2006 | PLANS APPROVAL DATE: APRIL 30, 2007 SECTION MANAGER DEPUTY BUREAU MANAGER BUREAU MANAGER | STANDARD PLAN HYDRAULICS TYPICAL INSTALLATION OF BUILDING SEWER AND SIDE SEWER | OLD FILE NO.: 44,337 FILE NO.: 87,196 REV. NO.: |
| TABLE OF REVISIONS CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION | | | CHECKED: DATE: 12/2006 BY: | BUREAU MANAGER | FILE NO.: 87,196 | REV. NO.: |



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| DRAWN BY: EG / BR | PT | 03/2018 |
| CHECKED BY: PT | APPROVED | |
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Drawing Title
LEGEND, SYMBOLS, & ABBREVIATIONS

Sheet No. **E0.1**
 Scale:
 Project No. **8722A**

S Y M B O L S

- CONCEALED OR UNDERGROUND CONDUIT, EMBEDDED IN CONCRETE, TRENCH OR DUCTBANK. PVC SCHEDULE 80, UON.
- A1-1,3,7 HOME RUN TO PANEL "A1", CIRCUITS #1,3,7. CROSS MARKS INDICATE NUMBER OF CONDUCTORS. CONDUCTOR SHALL BE #12, UON CONDUIT SIZES NOT IDENTIFIED SHALL BE 3/4" C MINIMUM WITH 2#12, 1#12G FOR POWER & LTG. CKTS. OR 2#14 FOR CONTROLS CKTS. CONCEAL CONDUIT AND WIRING IN WALLS OR CEILING, UON.
- 1"C,3#12,1#12G CALLOUT, INDICATING CONDUIT SIZE, NUMBER OF WIRE AND WIRE SIZE. G INDICATES GROUND WIRE.
- CONDUIT & CONDUCTORS TO BE REMOVED. SEE SPEC SECTION 16050, PART 3.
- CONDUIT TO BE CUT AND EXTENDED OR REMOVED AS NOTED, STARTING FROM POINT "X".
- CONDUIT RUN - CHANGE IN ELEVATION
- CONDUIT BENDS TOWARD OBSERVER
- CONDUIT BENDS AWAY FROM OBSERVER
- CONDUIT CAPPED, OR SEALED
- FLEXIBLE LIQUID-TIGHT CONDUIT CONNECTION OR TEMPORARY POWER CABLE.
- LIGHTING FIXTURE TAG "A" INDICATES TYPE OF FIXTURE. (TYPE "A" - SEE LUMINAIRE SCHEDULE)
- SUSPENDED LED LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
- SUSPENDED LED LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
- EMERGENCY BATTERY PACK SUPPLIED WITH LIGHT FIXTURE
- EMERGENCY BATTERY PACK SUPPLIED WITH LIGHT FIXTURE
- CEILING MOUNTED OCCUPANCY SENSOR WITH ADDITIONAL DRY CONTACT FOR HVAC CONNECTION. LUTRON LOS-CDT OR APPROVED EQUAL.
- WIRELESS OCCUPANCY SENSOR, WALL MOUNTED.
- CEILING MOUNTED WIRELESS OCCUPANCY SENSOR. LUTRON LRF2-OCR2B-P-WH OR APPROVED EQUAL.
- EXIT SIGN WALL MOUNTED WITH INTEGRAL EMERGENCY BATTERY
- EXIT SIGN CEILING MOUNTED WITH INTEGRAL EMERGENCY BATTERY
- SINGLE POLE SWITCH (SEE NOTE 3)
 * 3 = 3 WAY, 4 = 4 WAY
 K = KEY OPERATED
 WP = WEATHERPROOF
 D = DIMMER
 P = SWITCH WITH PILOT LIGHT
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- PANELBOARD - SEMI-FLUSH MOUNTED
- LCP - LIGHTING CONTROL PANEL, UON
- MOTOR CONTROL CENTER, SWITCHGEAR, OR OTHER MAJOR ELECTRICAL EQUIPMENT
- FUSED DISCONNECT SWITCH, UON.
- CONDUIT SEAL
- ELECTRIC UTILITY WATT-HOUR METER (PG&E)
- ELECTRIC SUB-METER, E-MON D-MON GREEN CLASS OR APPROVED EQUAL.
- RACEWAY BOX "HH" HANDHOLE
 "MH" MANHOLE
 "PB" PULLBOX
 "TB" TERMINAL BOX
- CEILING MOUNTED JUNCTION BOX
- TELEPHONE SYSTEM DEVICE

- WALL MOUNTED TELEPHONE & DATA OUTLET MOUNTED AT ±18" AFF, UON. SINGLE GANG BACK BOX ONLY. MOTOR, 2 INDICATES HORSE POWER AS SPECIFIED IN OTHER DIVISIONS OF THESE SPECIFICATIONS
- GENERATOR, SIZE AS INDICATED IN THE SPECIFICATIONS
- WALL-MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, LEVITON MSSMT-GDW OR APPROVED EQUAL. PROVIDE DUAL SWITCHING PER ELECT. DWG.
- CEILING-MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, LEVITON OSC20-MOW OR APPROVED EQUAL.
- EXTERIOR PHOTOCCELL SENSOR
- 120V DUPLEX RECEPTACLE, WALL MOUNTED +18" AFF, UON, NEMA CONFIGURATION 5-20. GFCI NEXT TO RECEPTACLE INDICATES GROUND FAULT INTERRUPTING TYPE, WP INDICATES WEATHER PROOF ENCLOSURE.
- 120V QUADPLEX RECEPTACLE, WALL MOUNTED +18" AFF, UON, NEMA CONFIGURATION 5-20
- SINGLE SPECIAL-PURPOSE RECEPTACLE, WALL MOUNTED, 240V RATING
- NON-SPECIFIC SYMBOL FOR ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER SPECIFICATION DIVISIONS BUT INSTALLED AND CONNECTED UNDER ELECTRICAL
- MECHANICAL EQUIPMENT DESIGNATION
- DOOR OPERATOR SWITCH
- GROUND ROD AND GROUND ROD BOX
- FUSED DISCONNECT SWITCH. SWITCH RATINGS AND FUSE SIZES ARE AS NOTED ON PLANS.
- MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED: 50A-TRIP RATING IN AMPERE
 NA - NON-AUTOMATIC
 MCP - MOTOR CIRCUIT PROTECTOR
- GROUND

NOTES FOR PLAN SYMBOLS:

- FOR ALL SYMBOLS SHOWN ON PLAN, WP OR XP ADJACENT TO SYMBOL INDICATES THE DEVICE OR EQUIPMENT SHALL BE LISTED FOR USE AS FOLLOWS:
 XP - EXPLOSION PROOF SUITABLE FOR CLASS 1, DIVISION 2 LOCATIONS.
 WP - WEATHERPROOF (NEMA 4X), SUITABLE FOR WET LOCATIONS.
 EXAMPLE - WP OR XP
- TELEPHONE, FIRE ALARM, AND SECURITY SYSTEM WIRING SHALL BE AS REQUIRED BY THE SYSTEM BEING FURNISHED. TELEPHONE CONDUITS SHALL BE 1" UON., FIRE ALARM AND SECURITY SYSTEM CONDUITS SHALL BE 3/4" UON.

ABBREVIATIONS

| | |
|--------|--|
| A | AMPERE |
| AC | ALTERNATING CURRENT |
| ADN | ASYNCHRONOUS DATA NETWORK |
| AFF | ABOVE FINISHED FLOOR |
| AG | ABOVE GROUND |
| ATS | AUTOMATIC TRANSFER SWITCH |
| BG | BELOW GROUND |
| BSCW | BARE STRANDED COPPER WIRE |
| CB | CIRCUIT BREAKER |
| CO | CONDUIT ONLY |
| CP | CONTROL PANEL |
| CPT | CONTROL POWER TRANSFORMER |
| DS | DISCONNECT SWITCH |
| DTIS | DEPARTMENT TELECOMMUNICATIONS AND INFORMATION SERVICES OR DEPARTMENT OF TECHNOLOGY |
| EMERG. | EMERGENCY |
| EMP | ELECTRONIC METERING PACKAGE UNIT |
| (E) | EXISTING TO REMAIN |
| FA | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| F/I | FURNISH AND INSTALL |
| FS | FLOW SWITCH |

- GRS GALVANIZED RIGID STEEL (CONDUIT)
- G, GND GROUND
- HZ HERTZ
- JB JUNCTION BOX
- KVA KILO VOLT AMPERE
- LCP LIGHTING CONTROL PANEL
- LTG LIGHTING
- MCC MOTOR CONTROL CENTER
- MCP MOTOR CIRCUIT PROTECTOR
- MH MOUNTING HEIGHT
- MTS MANUAL TRANSFER SWITCH
- (N) NEW
- NIC NOT IN CONTRACT
- OL'S OVER LOAD RELAYS
- PGRS PVC COATED GRS
- PNL NEW, TO BE FURNISHED AND INSTALLED PANEL
- PWR POWER
- R/C REMOVE AS CONTRACTOR PROPERTY
- R/F REMOVE (E) AS CONTRACTOR PROPERTY & F/I EQUIPMENT OR CONDUCTORS.
- R/R REMOVE AND RELOCATE (E) UNITS, OR REMOVE AND RE-INSTALL.
- R/S REMOVE AND SALVAGE AS CITY PROPERTY
- REF REFERENCE
- SPST SINGLE POLE, SINGLE THROW
- TB TERMINAL BOARD
- TJB TERMINAL JUNCTION BOX
- UON UNLESS OTHERWISE NOTED
- V VOLTS
- WP WEATHERPROOF
- XFR TRANSFORMER (POWER DISTRIBUTION)

REFERENCE

- 2 SHEET NOTE REFERENCE
- A SECTION CALL OUTS, SEE SECTION "A" ON DRAWING E-9. A BLANK LINE IN PLACE OF E-9 IMPLIES SECTION REFERENCE SHOWN ON THE SAME SHEET, UON.

NOTES:
 1. THIS SHEET IS A STANDARD LEGEND SHEET. SOME SYMBOLS, ABBREVIATIONS OR STANDARD DETAILS SHOWN ON THIS SHEET MAY NOT HAVE BEEN USED IN THE CONTRACT DRAWINGS.

DRAWING LIST

| DWG. NO. | DESCRIPTION |
|----------|----------------------------------|
| E0.1 | LEGEND, SYMBOLS, & ABBREVIATIONS |
| E0.2 | SINGLE LINE DIAGRAM |
| E0.3 | ELEVATIONS |
| E0.4 | DETAILS |
| E3.0 | POWER PLAN |
| E4.0 | SIGNAL PLAN |
| E5.0 | FIRE ALARM PLAN |

- THESE PLANS ARE DIAGRAMMATIC AND ARE CORRECT FOR GENERAL DESIGN ONLY. EXACT LOCATIONS OF EQUIPMENT PER ARCHITECTURAL AND MECHANICAL DRAWINGS.
- ALL WIRING SHALL BE COPPER AND SHALL BE INSTALLED IN CONDUIT. CONDUIT SIZE SHALL BE ACCORDING TO CODE. MINIMUM CONDUIT SIZE IS 3/4". ALL CONDUITS AND JUNCTION BOXES SHALL BE CONCEALED IN FURRED SPACES, CONCRETE WALLS / FLOORS, OR ABOVE ACOUSTIC CEILING, U.O.N. ALL JUNCTION BOXES SHALL BE ACCESSIBLE.
- THIS IS A GENERAL LEGEND. NOT ALL SYMBOLS ARE USED.
- PROVIDE UL LISTED FIRE RATED SEALS FOR ALL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS. SEALED AND MAINTAIN FIRE SEPARATION RATING.



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| DESIGN & ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102-6028 | | |
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| CHECKED BY: | PT | DATE: 03/2018 |
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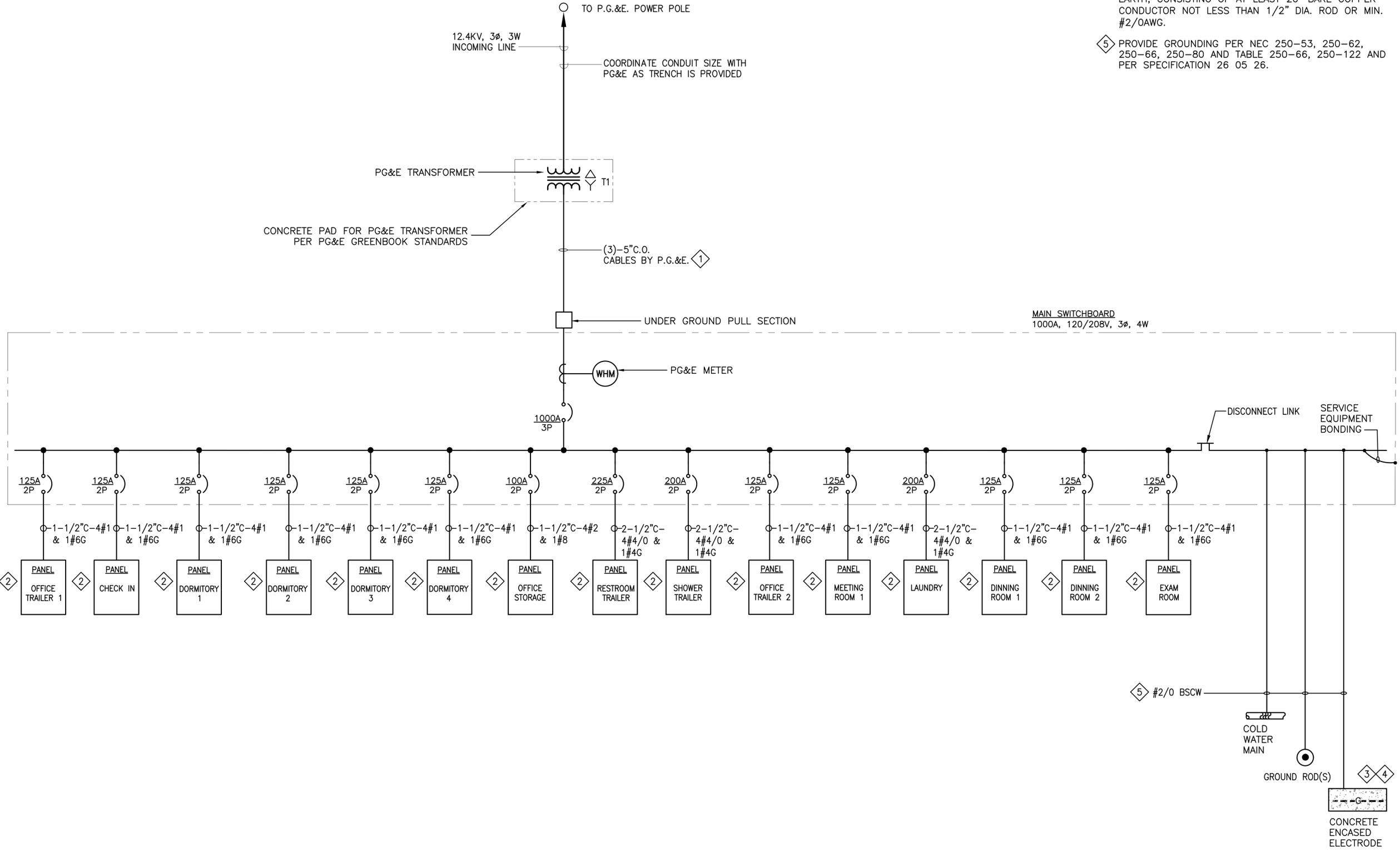
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SINGLE LINE DIAGRAM

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 Project No. **8722A**

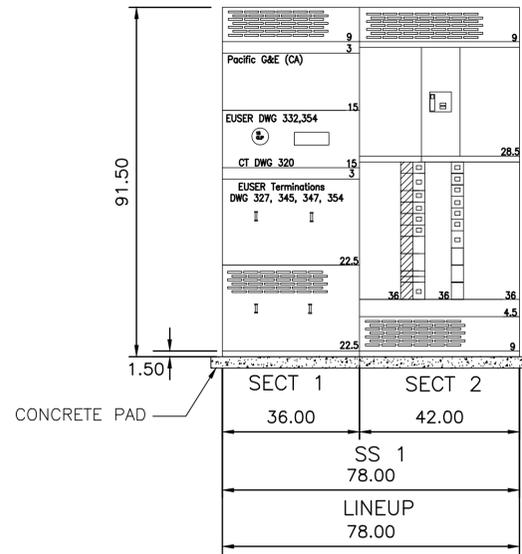
SHEET NOTES:

- 1 VERIFY CONDUIT QUANTITY AND SIZE WITH PG&E. CONDUIT SIZE PER PG&E GREENBOOK 063928
- 2 PANEL IS FURNISHED AND INSTALLED BY MANUFACTURER ON THE OUTSIDE OF THE TRAILER. COORDINATE EXACT LOCATION WITH TRAILER MANUFACTURER.
- 3 MANUFACTURER OF METER MAIN SHALL MEET EUSERC MANUAL SECTION 200 AND SECTION 300. OBTAIN PG&E APPROVAL OF ELECTRICAL SERVICE EQUIPMENT PRIOR TO INSTALLATION.
- 4 ELECTRODE TO BE ENCASED IN A MINIMUM 2" CONCRETE, THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20' BARE COPPER CONDUCTOR NOT LESS THAN 1/2" DIA. ROD OR MIN. #2/OAWG.
- 5 PROVIDE GROUNDING PER NEC 250-53, 250-62, 250-66, 250-80 AND TABLE 250-66, 250-122 AND PER SPECIFICATION 26 05 26.

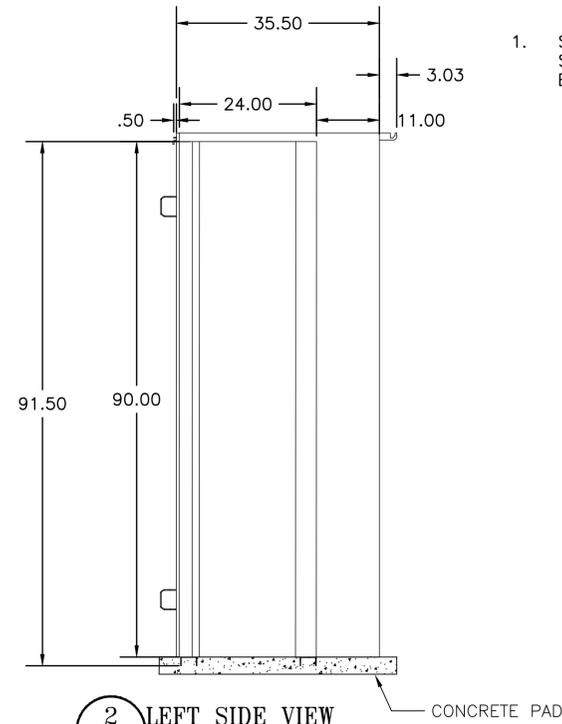


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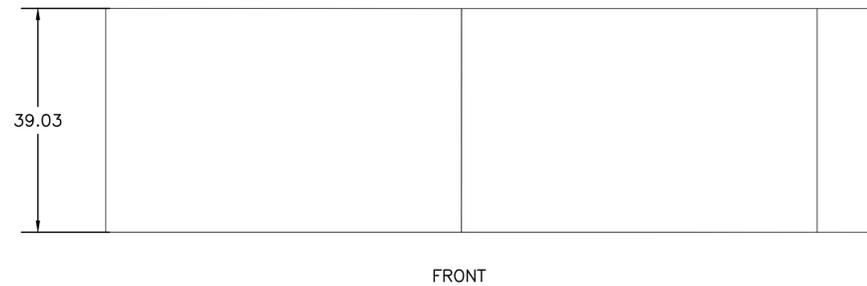
- SQUARE D QED SWITCHBOARD OR APPROVED EQUAL SWITCHBOARD WILL BE OUTDOOR RATED NEMA 3R ENCLOSURE.



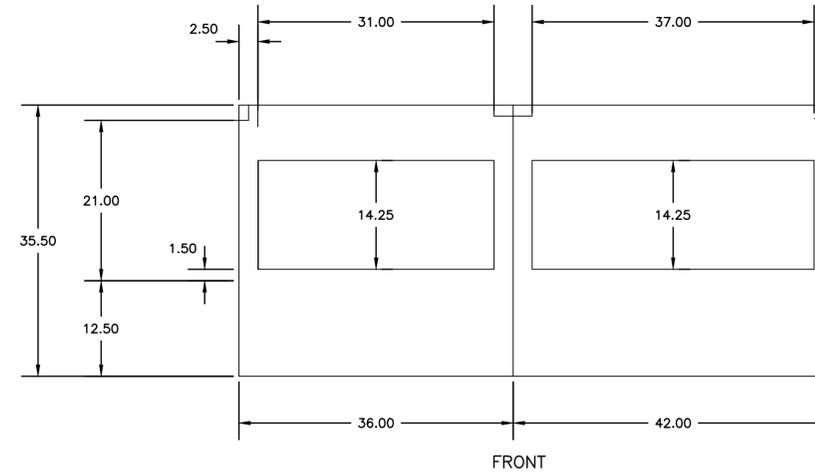
1 ELEVATION VIEW
SCALE: NONE



2 LEFT SIDE VIEW
SCALE: NONE



3 TOP VIEW
SCALE: NONE



4 FLOOR PLAN
SCALE: NONE



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| Checked by | PT |

Drawing Title

SWITCHBOARD DETAILS

Sheet No.

E0.3

Project No.

8722A

Scale:



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| SAN FRANCISCO PUBLIC WORKS | | 03/2018 |
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| DESIGNED BY: E.G. | EG | 03/2018 |
| DRAWN BY: E.G. / B.R. | EG / BR | 03/2018 |
| CHECKED BY: P.T. | PT | 03/2018 |
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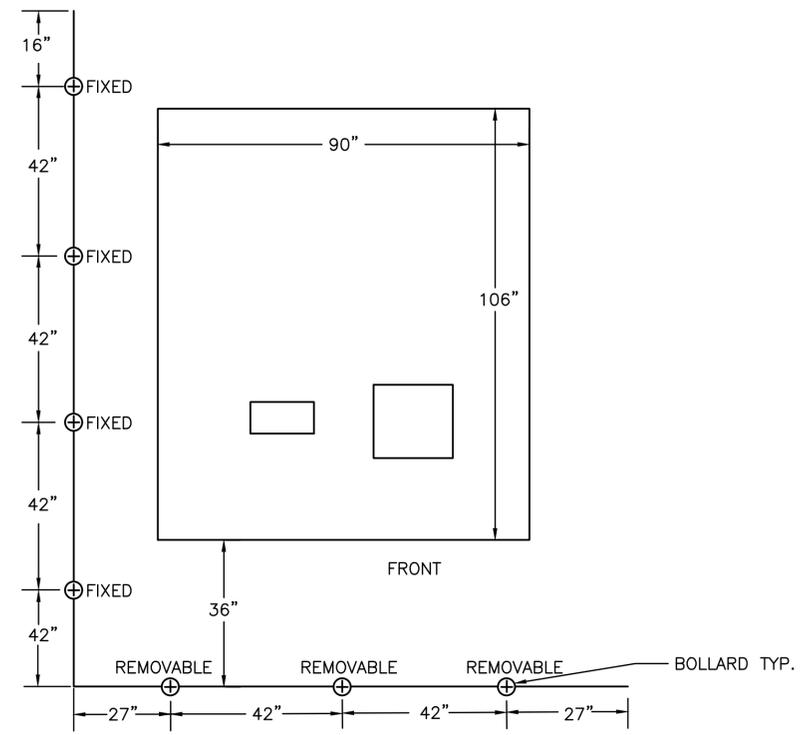
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Drawing Title: DETAILS

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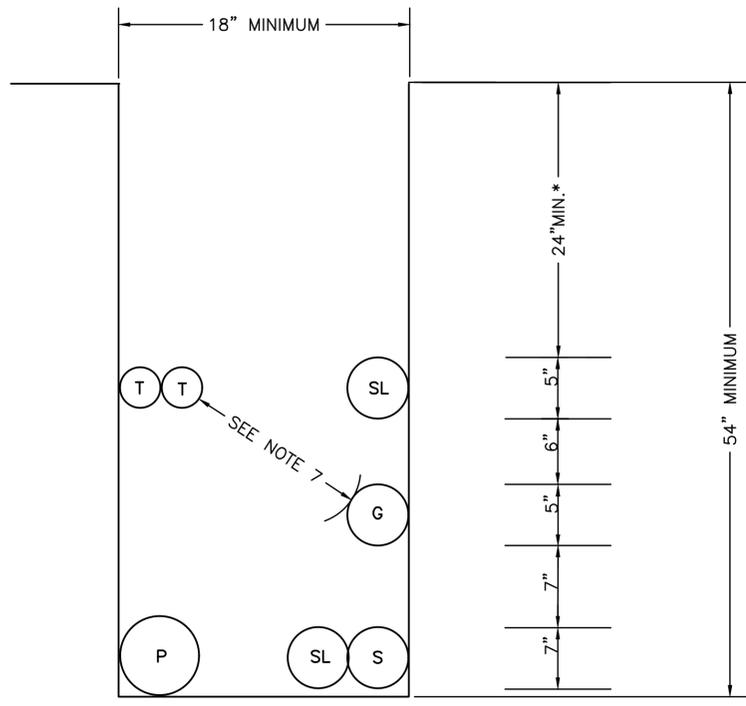
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PER PG&E GREENBOOK 05/122, 045292.
 SIZE CONDUIT PER PG&E GREENBOOK 063928.

1 UTILITY TRANSFORMER PAD DETAIL
 SCALE: NTS

| MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS | | G | DUCT T | DB T | C | S | P |
|---|-------------------------|-----|--------|------|-----|-----|-----|
| G | (GAS) | - | 12" | 12" | 12" | 6" | 12" |
| T | (TELEPHONE) DUCT | 12" | - | 1" | 1" | 12" | 12" |
| T | (TELEPHONE) DIRECT BURY | 12" | 1" | - | 1" | 12" | 12" |
| C | (CATV) | 12" | 1" | 1" | - | 12" | 12" |
| S | (ELECTRIC SECONDARY) | 6" | 12" | 12" | 12" | - | 3" |
| P | (ELECTRIC PRIMARY) | 12" | 12" | 12" | 12" | 3" | - |
| SL | (STREETLIGHT) | 6" | 12" | 12" | 12" | 1" | 3" |



PER PG&E STANDARDS, 55453, EXHIBIT B

2 TYPICAL DISTRIBUTION TRENCH
 SCALE: NTS



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Consultant: **DESIGN & ENGINEERING**
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Drawing Title: **SITE PLAN**

Sheet No. **E3.0**

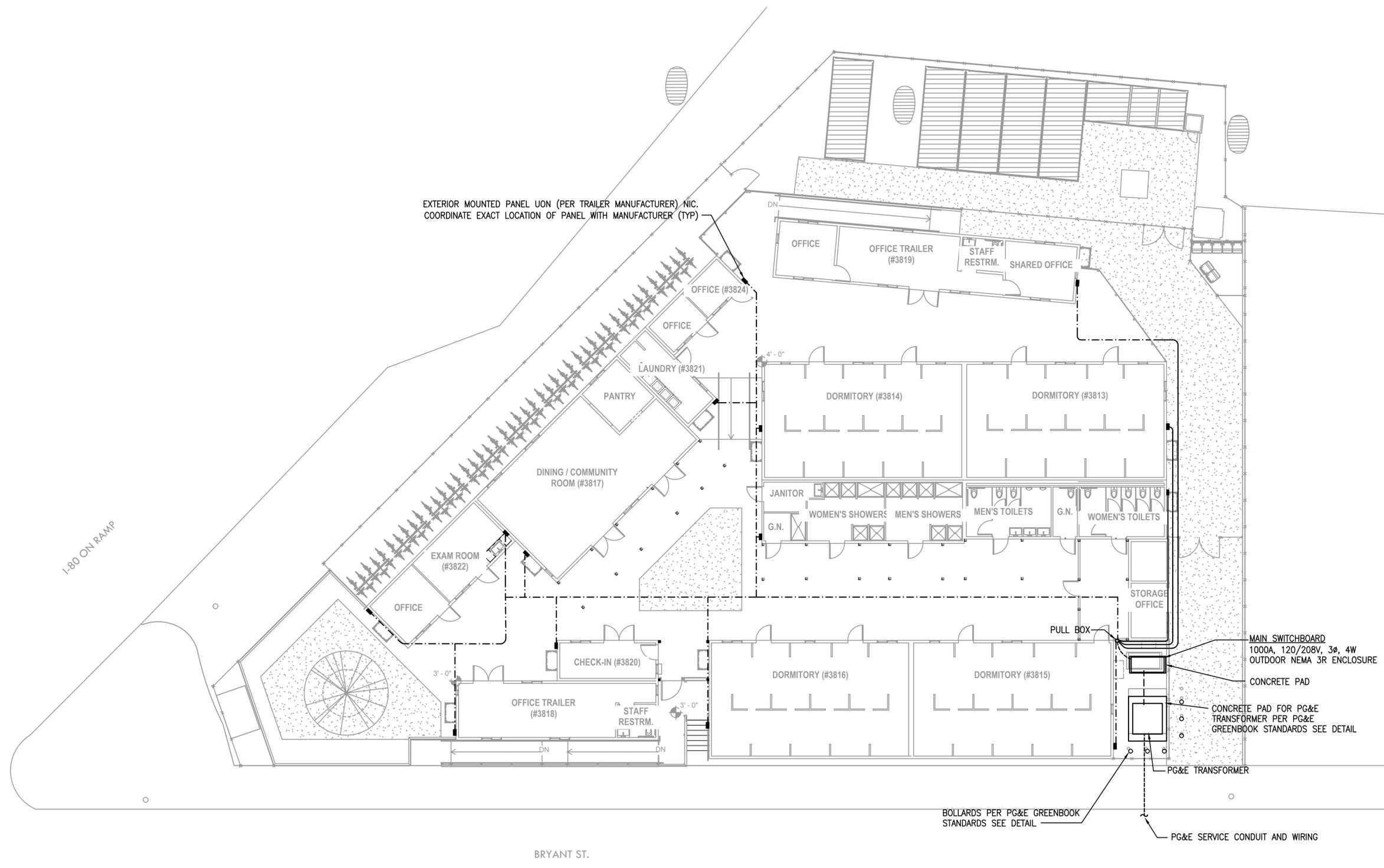
Project No. **8722A**

GENERAL NOTES

1. MODULAR TRAILER STRUCTURES ARE DESIGNED BY OTHERS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS FOR ELECTRICAL SERVICE CONNECTION TO INDIVIDUAL MODULAR TRAILER STRUCTURES.
2. ALL ELECTRICAL PANELS EXTERIOR MOUNTED TYP. (PER TRAILER MANUFACTURER). FURNISHED AND INSTALLED BY TRAILER MANUFACTURER.
3. ALL ELECT CONDUIT TO BE INSTALLED UNDER ELEVATED DECK. (NO CONDUIT UNDER TRAILERS TYP.)

LEGEND

- UNDERGROUND CONDUIT
- - - - - CONDUIT UNDER DECK LEVEL AND ABOVE GROUND LEVEL



1 POWER PLAN
 SCALE: 3/32"=1'-0"

3/15/2018 3:46:28 PM



Edgar Lopez - City Architect
Julia Laue - Principal Architect / Division Manager
30 Van Ness Avenue Suite 4100
San Francisco, CA 94102-6028 Fax (415)557-4701
(415)557-4700

Project

5th & Bryant
Navigation Center

680 BRYANT STREET,
SAN FRANCISCO, CA 94107

Consultant

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| | | DESIGN & ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102 - 6028 |
| DESIGNED BY: | EG | DATE: 03/2018 |
| DRAWN BY: | EG / BR | DATE: 03/2018 |
| CHECKED BY: | PT | DATE: 03/2018 |
| APPROVED | | |
| SECTION MANAGER: | | DATE: |
| DEPUTY DIVISION MANAGER: | | DATE: |
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03/23/18

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Drawing Title

SIGNAL PLAN

Sheet No.

E4.0

Project No.

8722A

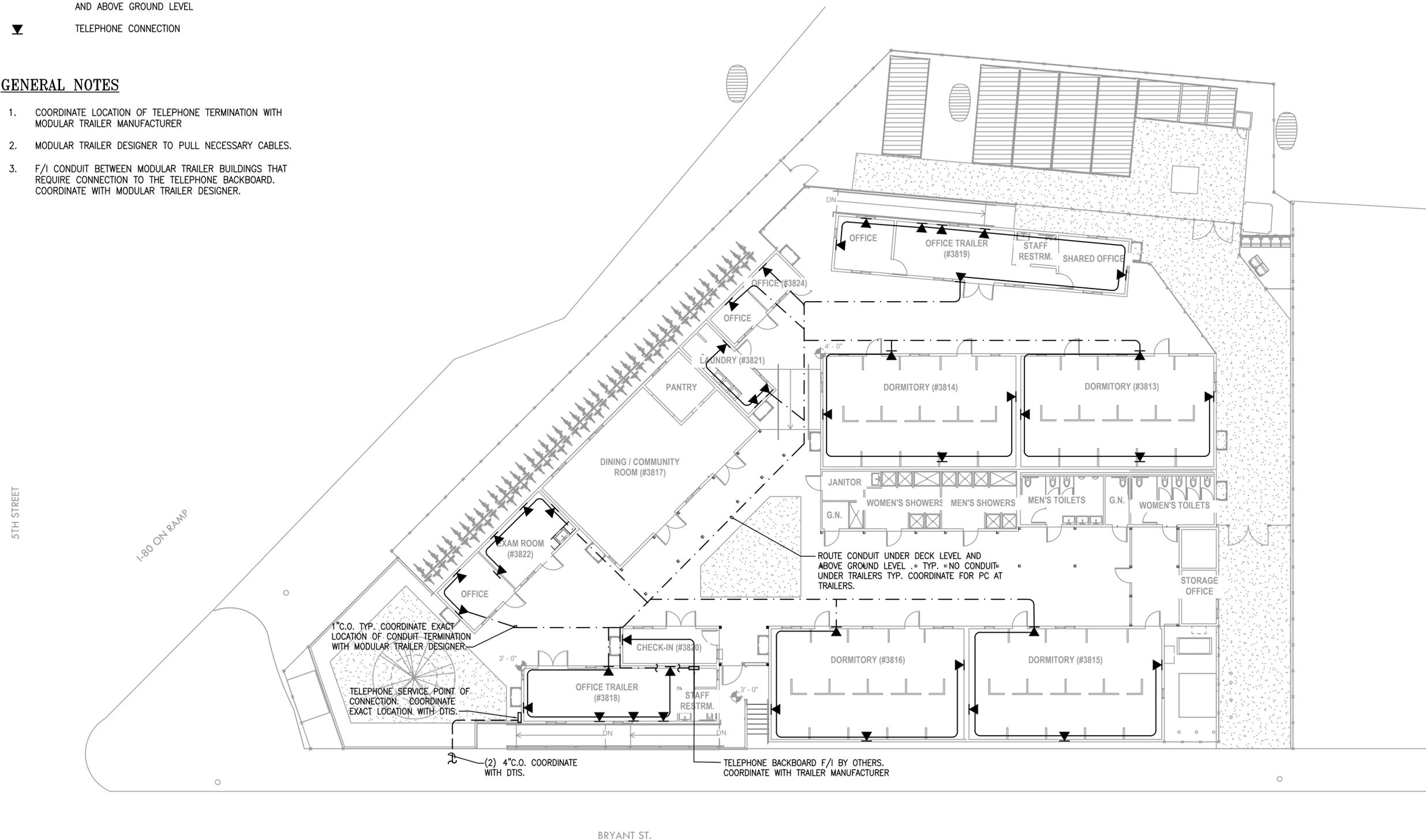
LEGEND

CONDUIT

- UNDERGROUND CONDUIT
- . - . - CONDUIT UNDER DECK LEVEL AND ABOVE GROUND LEVEL
- ▼ TELEPHONE CONNECTION

GENERAL NOTES

1. COORDINATE LOCATION OF TELEPHONE TERMINATION WITH MODULAR TRAILER MANUFACTURER
2. MODULAR TRAILER DESIGNER TO PULL NECESSARY CABLES.
3. F/I CONDUIT BETWEEN MODULAR TRAILER BUILDINGS THAT REQUIRE CONNECTION TO THE TELEPHONE BACKBOARD. COORDINATE WITH MODULAR TRAILER DESIGNER.



1
-
SIGNAL PLAN
SCALE: 3/32"=1'-0"



Edgar Lopez - City Architect
 Julia Laue - Principal Architect / Division Manager
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 (415)557-4700

Project
5th & Bryant Navigation Center
 680 BRYANT STREET,
 SAN FRANCISCO, CA 94107

Consultant

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| SAN FRANCISCO PUBLIC WORKS | | |
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| SAN FRANCISCO, CA 94102 - 6028 | | |
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| CHECKED BY: | PT | 03/2018 |
| APPROVED | | |
| SECTION MANAGER: | | DATE: |
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Drawing Title
FIRE ALARM PLAN

Sheet No.
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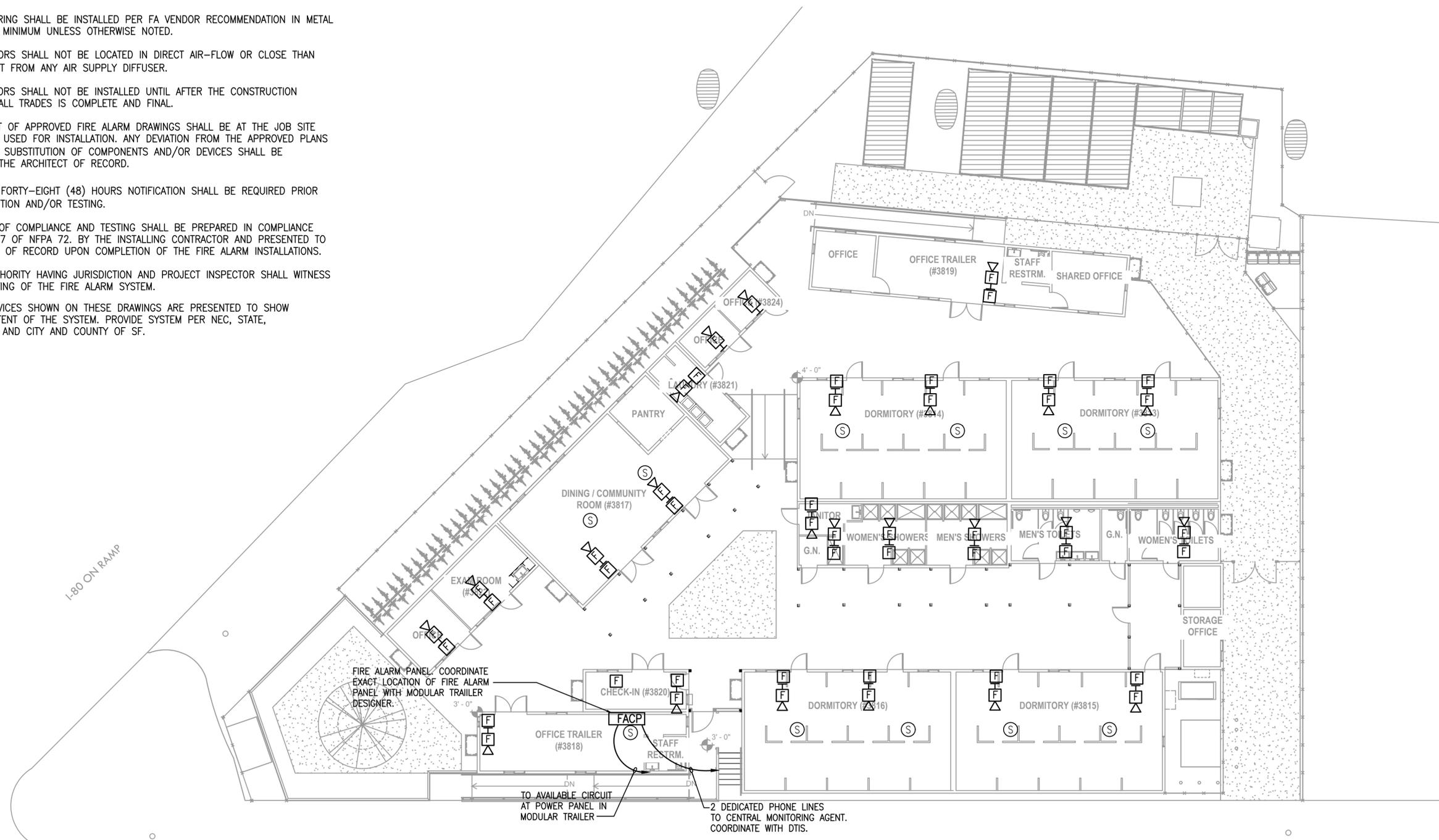
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FIRE ALARM NOTES:

- CONTRACTOR TO SUBMIT ENGINEER STAMPED DRAWINGS TO CITY FIRE MARSHAL FOR APPROVAL. DRAWINGS AND SPECIFICATION SHALL BE PER FIRE MARSHAL REQUIREMENTS. SUBMITTAL SHALL INCLUDE BATTERY, VOLTAGE DROP CALCULATIONS, SEQUENCE OF OPERATION AND DEVICE SPECIFICATION INCLUDING CSFM LISTINGS.
- INSTALLATION OF FIRE ALARM SYSTEM SHALL BE MADE IN COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS, NFPA, LOCAL AND STATE FIRE CODE, NEC, ADA AND NFPA 72.
- INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SHOP DRAWINGS AND SPECIFICATIONS, INCLUDING VERIFICATION OF CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE OFFICE OF REGULATORY SERVICES.
- FIRE ALARM WIRING SHALL BE INSTALLED PER FA VENDOR RECOMMENDATION IN METAL RACEWAY 3/4" MINIMUM UNLESS OTHERWISE NOTED.
- SMOKE DETECTORS SHALL NOT BE LOCATED IN DIRECT AIR-FLOW OR CLOSE THAN THREE (3) FEET FROM ANY AIR SUPPLY DIFFUSER.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN UP OF ALL TRADES IS COMPLETE AND FINAL.
- A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS INCLUDING THE SUBSTITUTION OF COMPONENTS AND/OR DEVICES SHALL BE APPROVED BY THE ARCHITECT OF RECORD.
- A MINIMUM OF FORTY-EIGHT (48) HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TESTING.
- A CERTIFICATE OF COMPLIANCE AND TESTING SHALL BE PREPARED IN COMPLIANCE WITH CHAPTER 7 OF NFPA 72. BY THE INSTALLING CONTRACTOR AND PRESENTED TO THE INSPECTOR OF RECORD UPON COMPLETION OF THE FIRE ALARM INSTALLATIONS.
- THE LOCAL AUTHORITY HAVING JURISDICTION AND PROJECT INSPECTOR SHALL WITNESS THE FINAL TESTING OF THE FIRE ALARM SYSTEM.
- FIRE ALARM DEVICES SHOWN ON THESE DRAWINGS ARE PRESENTED TO SHOW THE DESIGN INTENT OF THE SYSTEM. PROVIDE SYSTEM PER NEC, STATE, FIRE MARSHAL AND CITY AND COUNTY OF SF.

LEGEND

- FIRE ALARM DETECTION SYSTEM**
- CEILING MOUNTED VISUAL STROBE
 - CEILING MOUNTED VISUAL STROBE AND AUDIBLE HORN
 - VISUAL STROBE
 - VISUAL STROBE AND AUDIBLE HORN
 - SMOKE DETECTOR WITH VANDAL RESISTANT CAGE
 - WALL MOUNTED MANUAL PULL STATION.
 - FIRE ALARM CONTROL PANEL, MICROPROCESSOR BASE (WITH DIALER)



1
FIRE ALARM PLAN
 SCALE: 3/32"=1'-0"

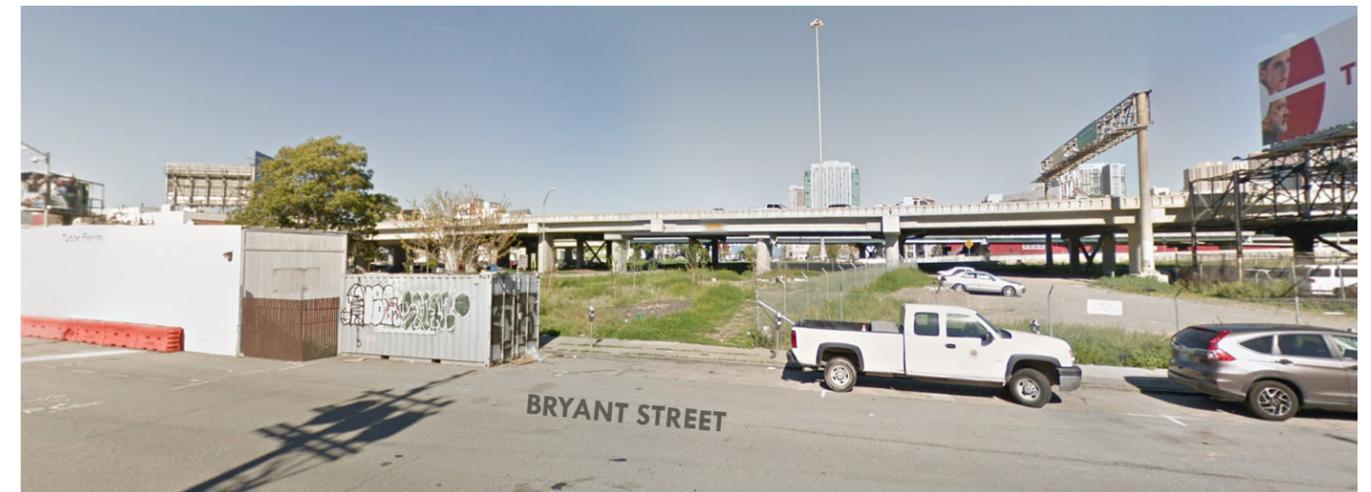
5TH ST. & BRYANT ST. - NAVIGATION CENTER

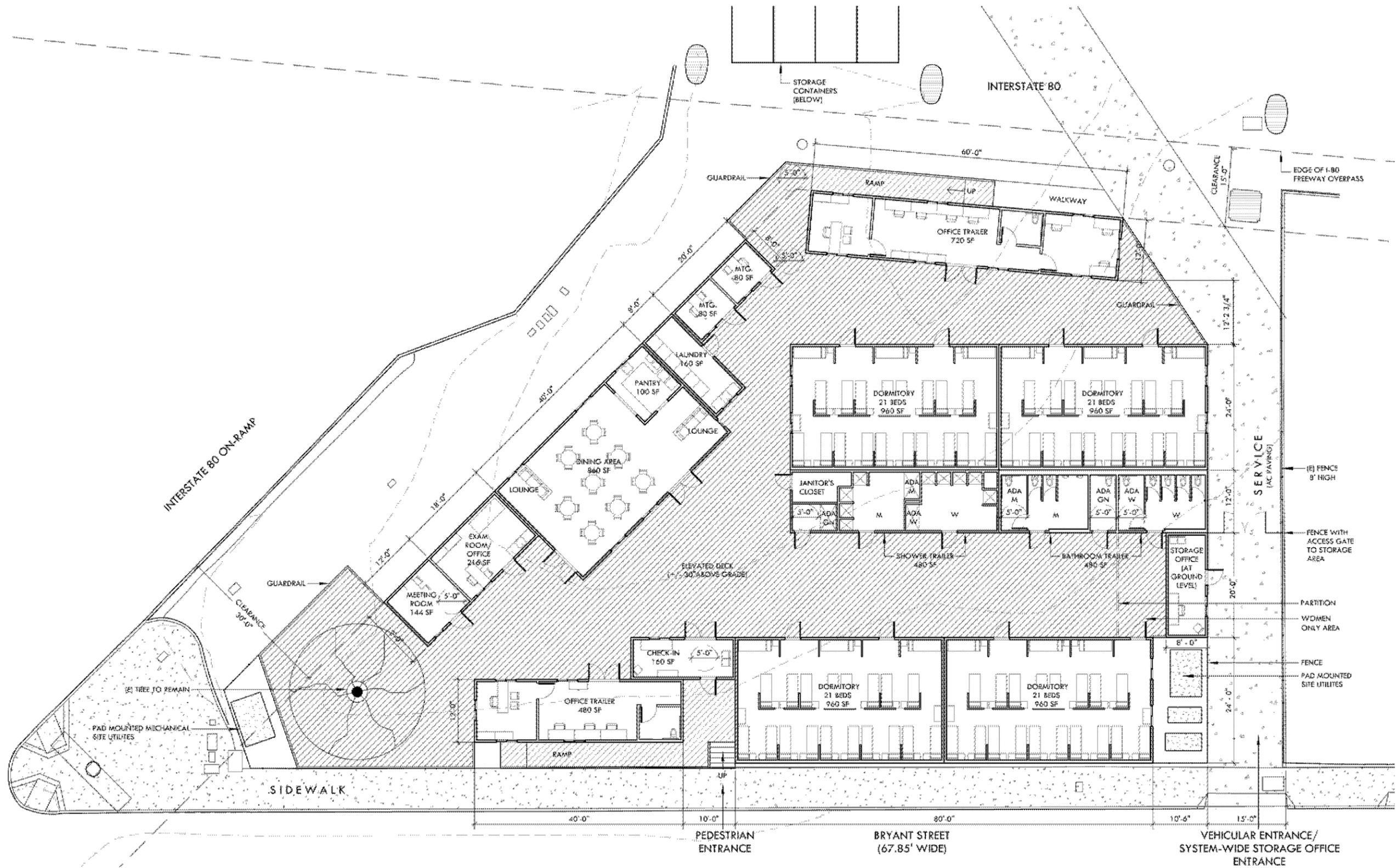
BLOCK /LOT: 3761/062 | OWNER: STATE OF CALIFORNIA | USE TYPE: ROW | ZONING: P | HEIGHT/BULK DISTRICT: 30-X

The site is currently a raw lot owned by Caltrans. Caltrans has authorized the use of the site as a Navigation Center.

84 Bed Capacity Navigation Center

Similar to the Central Waterfront Navigation Center, the site would consist of a village like cluster of modular buildings (providing dormitories, restrooms and shower facilities, dining / lounge spaces, and staff offices and meeting rooms) connected by an elevated wood deck structure which provides level access throughout the complex and carries the site utilities linking the modular buildings together. This type of solution is fully code compliant for a permanent facility and offers full insulation, integrated HVAC systems, and permanently installed hygiene facilities. Given the longer time frame required to fabricate the modular trailer units, it is not anticipated that we would need temporary site utilities.

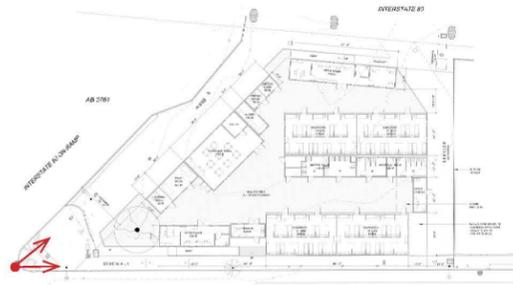


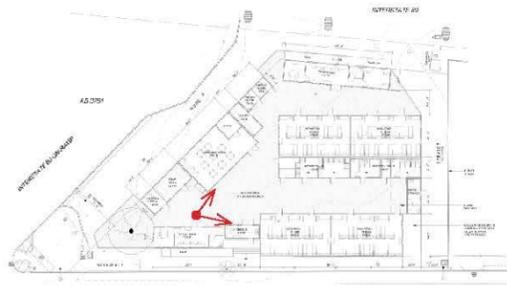
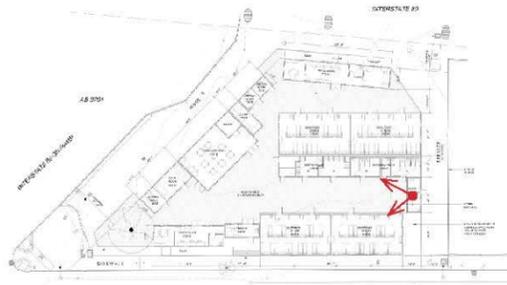


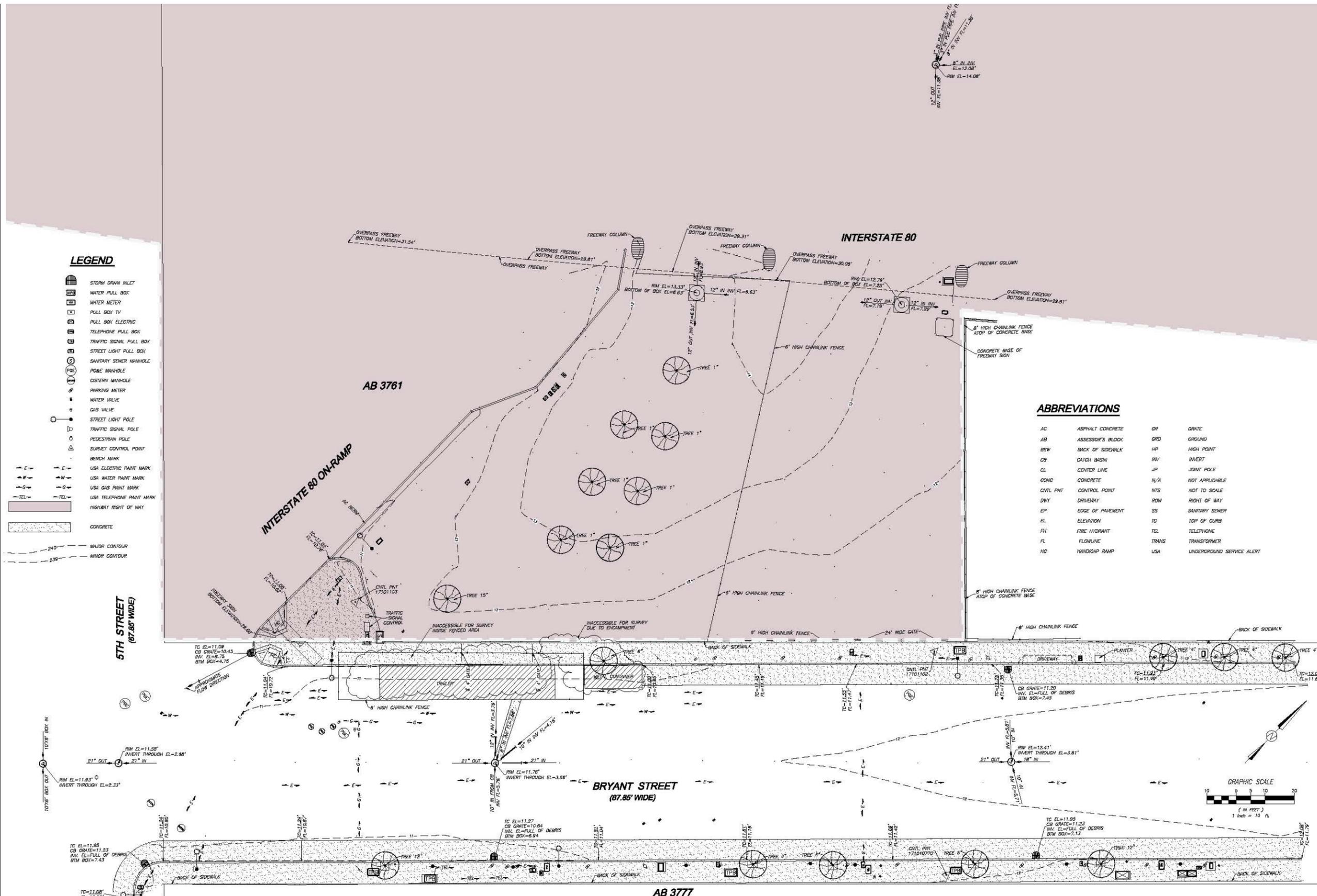
SITE AREA: 21,550 SF
 TRAILER TOTAL AREA: 7,960 SF

PROPOSED SITE PLAN: MODULAR TRAILER NAVIGATION CENTER | 20' = 1"
 5TH & BRYANT | January 19, 2018









LEGEND

- STORM DRAIN INLET
- WATER PULL BOX
- WATER METER
- PULL BOX TV
- PULL BOX ELECTRIC
- TELEPHONE PULL BOX
- TRAFFIC SIGNAL PULL BOX
- STREET LIGHT PULL BOX
- SANITARY SEWER MANHOLE
- P&G MANHOLE
- CISTERN MANHOLE
- PARKING METER
- WATER VALVE
- GAS VALVE
- STREET LIGHT POLE
- TRAFFIC SIGNAL POLE
- PEDESTRIAN POLE
- SURVEY CONTROL POINT
- BENCH MARK
- USA ELECTRIC PAINT MARK
- USA WATER PAINT MARK
- USA GAS PAINT MARK
- USA TELEPHONE PAINT MARK
- HIGHWAY RIGHT OF WAY
- CONCRETE
- MAJOR CONTOUR
- MINOR CONTOUR

ABBREVIATIONS

| | | | |
|----------|------------------|-------|---------------------------|
| AC | ASPHALT CONCRETE | GR | GRATE |
| AB | ASSESSOR'S BLOCK | GRD | GROUND |
| BSW | BACK OF SIDEWALK | HP | HIGH POINT |
| CB | CATCH BASIN | INV | INVERT |
| CL | CENTER LINE | JP | JOINT POLE |
| COND | CONCRETE | N/A | NOT APPLICABLE |
| CIVL PNT | CONTROL POINT | NTS | NOT TO SCALE |
| DWY | DRIVEWAY | ROW | RIGHT OF WAY |
| EP | EDGE OF PAVEMENT | SS | SANITARY SEWER |
| EL | ELEVATION | TC | TOP OF CURB |
| FH | FIRE HYDRANT | TEL | TELEPHONE |
| FL | FLOWLINE | TRANS | TRANSFORMER |
| HC | HANDICAP RAMP | USA | UNDERGROUND SERVICE ALERT |

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BUREAU OF STREET USE AND MAPPING
SAN FRANCISCO PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

PUBLIC WORKS

NO. 8914
EXP. 08-30-19

SURVEYED BY:
JH

DRAWN BY:
YH

CHECKED BY:
MS

APPROVED BY:
MS

TOPO DATE:
12/05/2017

ISSUE DATE:
NONE

JOB NO:
AB 3761, LOT 062

**TOPOGRAPHIC SURVEY OF CALTRANS SITE AT
5TH STREET AND BRYANT STREET**

PREPARED FOR
CITY AND COUNTY OF SAN FRANCISCO PUBLIC WORKS INFRASTRUCTURE DESIGN AND CONSTRUCTION

JOB NO:
2017-101

ISSUE DATE:
12/12/2017

SCALE:
1"=10'

SHEET 2 OF 2

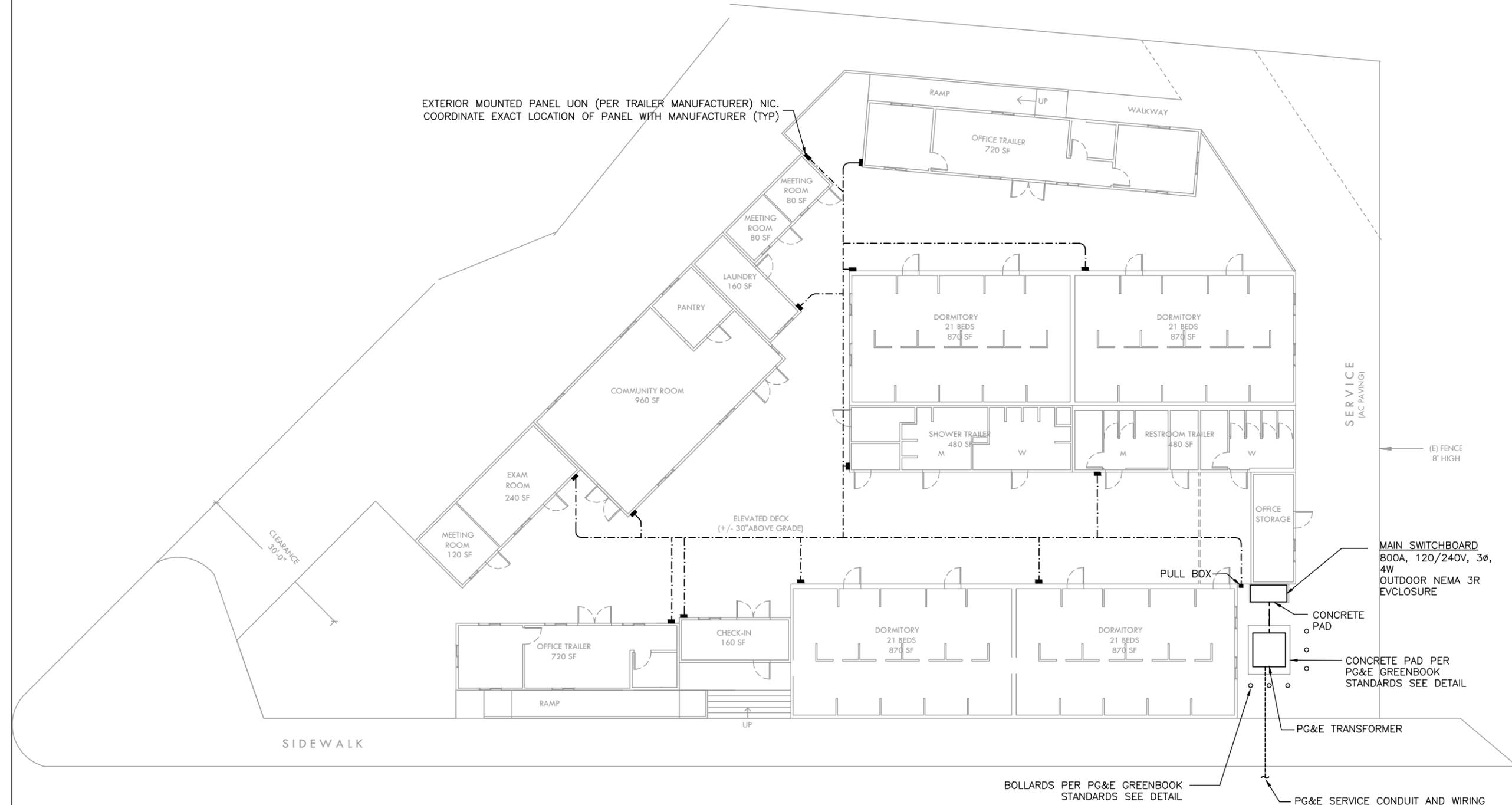
GENERAL NOTES

1. MODULAR TRAILER STRUCTURES ARE DESIGNED BY OTHERS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS FOR ELECTRICAL SERVICE CONNECTION TO INDIVIDUAL MODULAR TRAILER STRUCTURES.
2. ALL ELECTRICAL PANELS EXTERIOR MOUNTED TYP.(PER TRAILER MANUFACTURER) *EXCEPT RESTROOM TRAILER. FURNISHED AND INSTALLED BY TRAILER MANUFACTURER.
3. ALL ELECT CONDUIT TO BE INSTALLED UNDER ELEVATED DECK. (NO CONDUIT UNDER TRAILERS TYP.)

LEGEND

- UNDERGROUND CONDUIT
- - - - - CONDUIT UNDER DECK LEVEL AND ABOVE GROUND LEVEL

EXTERIOR MOUNTED PANEL UON (PER TRAILER MANUFACTURER) NIC. COORDINATE EXACT LOCATION OF PANEL WITH MANUFACTURER (TYP)



Julia Laue - Principal Architect / Division Manager
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Project

NAVIGATION CENTER -
5TH ST .AND BRYANT ST

224-226 SOUTH VAN NESS AVE,
SAN FRANCISCO, CA. 94103

Consultant

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| DRAWN BY: | EG / BR | DATE: 12/2017 |
| CHECKED BY: | PT | DATE: 12/2017 |
| APPROVED | | |
| SECTION MANAGER: | DATE: | |
| DEPUTY DIVISION MANAGER: | DATE: | |
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Mark Dorian - Architecture Services Manager

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| Drawn | EG / BR |
| Date | 12/19/17 |
| Phase | 90% CD |

**NOT FOR
CONSTRUCTION**

Drawing Title

SITE PLAN

Sheet No.

E3.0

Job No. XXXXA

Scale: As indicated



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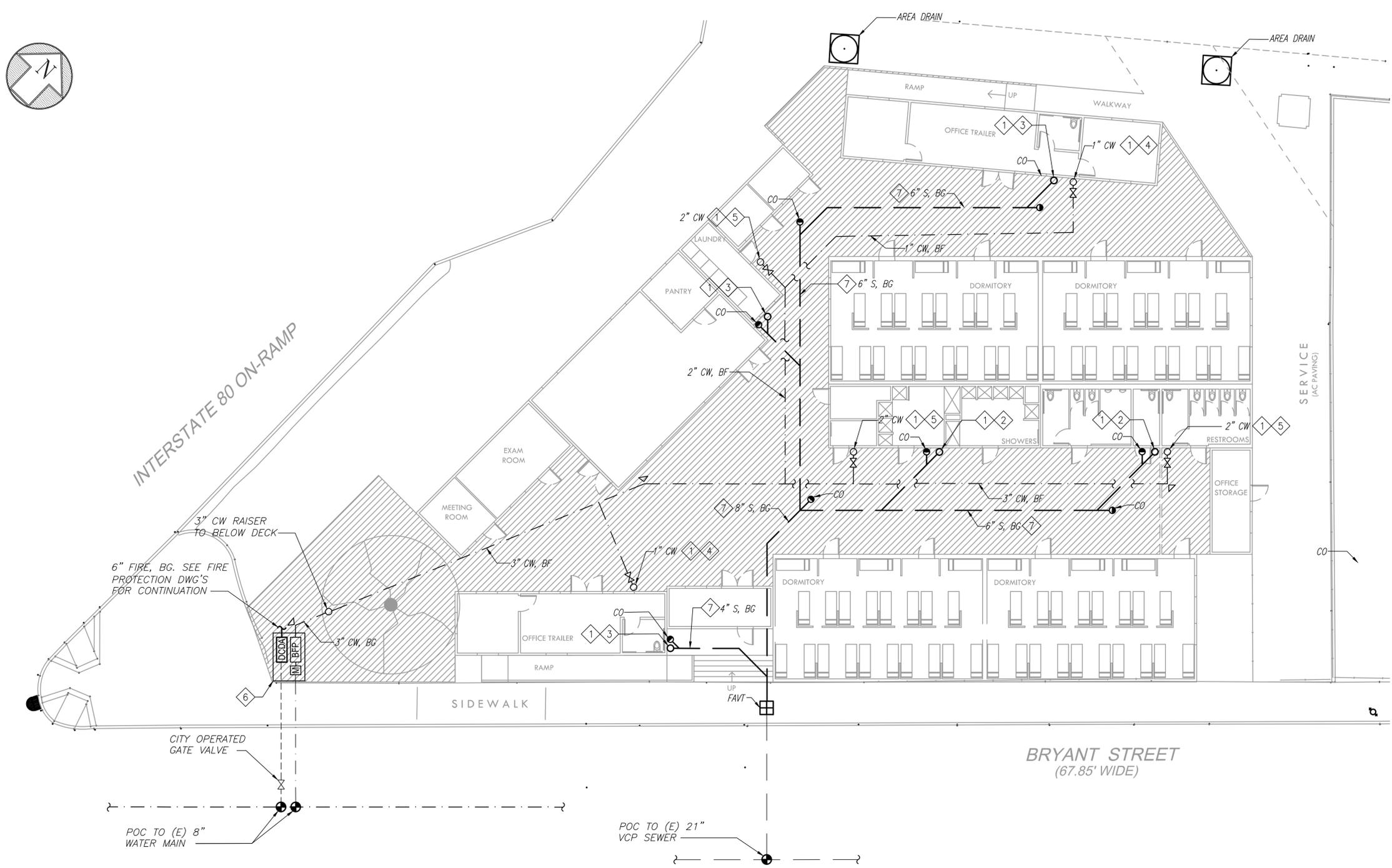
**SITE PLUMBING
DCW AND FIRE PROTECTION**

Sheet No. _____

P-2.10

Scale AS NOTED

Job No. _____



SITE PLUMBING - CW AND FIRE PROTECTION

SCALE: 1"=10'

GENERAL NOTES:

- DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER ELEMENTS WHICH MAY BE REQUIRED. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, FIXTURES, ETC AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE (E) SITE CONDITIONS AND FEATURES PRIOR TO BID, AND THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, BENDS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE CITY.
- THE BOTTOM OF THE DCW PIPE, AT ALL POINTS, SHALL HAVE AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER OR DRAIN LINE, AND AT LEAST 12" AWAY FROM THE SEWER LINE OR DRAIN LINE PER PLUMBING CODE.
- FAUCETS, PIPES, VALVES AND PLUMBING FITTINGS SHALL BE "LEAD FREE" AND RECEIVE CERTIFICATION FROM AN INDEPENDENT, ANSI APPROVED, THIRD PARTY TESTING ORGANIZATION. THIS REQUIRES THAT FAUCETS, PIPES, VALVES, FITTINGS AND ETC. INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION MUST NOT EXCEED A TOTAL WEIGHTED AVERAGE OF 0.25% MAXIMUM LEAD CONTENT. PRODUCTS SHALL BE AB1953 AND NSF-61 ANNEX G CERTIFIED.

- ALL MATERIALS USED IN PLUMBING PRODUCTS, SUCH AS SEALS AND GASKETS THAT COME IN CONTACT WITH WATER, SHALL BE OF A CHLORAMINE RESISTANT MATERIAL. THESE MATERIALS SHALL BE A HIGH QUALITY RUBBER (SYNTHETIC PLOYER) OR EPDM FOR ALL WETTED COMPONENTS. MATERIALS SHALL BE NSF61 CERTIFIED FOR POTABLE WATER USE
- SANITARY SEWER, STORM DRAIN AND VENT PIPING SHALL BE CAST IRON PIPE; CISPI 301, HUBLESS. JOINTS SHALL BE ASTM C564, NEOPRENE GASKETS, AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.
- DCW WATER PIPING BELOW GRADE SHALL BE COPPER TUBING; ASTM B88, TYPE K HARD DRAWN. ABOVE GROUND PIPING SHALL BE COPPER ASTM B88 TYPE L. FITTINGS SHALL BE ASME B16.18, CAST BRONZE OR ASTM B16.22, WROUGHT COPPER AND BRONZE. JOINTS SHALL BE ASTM B32, GRADE 5A, IAPMO, LEAD FREE SOLDER.
- ALL PIPE, TUBE AND FITTINGS CARRYING WATER USE IN POTABLE WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF NSF61, AND SHALL BE LEAD FREE PER CALIFORNIA STATE DEPARTMENT OF HEALTH AND SAFETY CODE SECTION 116875.

SHEET NOTES:

- STUB OUT FOR FUTURE TRAILER/ WAREHOUSE/MODULAR BUILDING CONNECTION. THIS IS AN APPROXIMATE LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IN THE FIELD AND COORDINATE WITH OTHER TRADE TO AVOID CONFLICTS PRIOR TO INSTALLATION OF ANY UNDERGROUND AND ABOVE GROUND PIPING.
- 6" SEWER, BG
- 4" SEWER, BG
- 1" CW WITH ISOLATION SHUT-OFF VALVE INSTALL A DIAPHRAGM TYPE WATER HAMMER ARRESTER FOR THE BUILDING. UNIT SHALL BE SIZED PER FIXTURE COUNTS PER PLUMBING CODE.
- 2" CW WITH ISOLATION SHUT-OFF VALVE INSTALL A DIAPHRAGM TYPE WATER HAMMER ARRESTER FOR THE BUILDING. UNIT SHALL BE SIZED PER FIXTURE COUNTS PER PLUMBING CODE.
- UTILITY PAD WITH BACKFLOW PREVENTER, SFPUC WATER METER, DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), INSPECTOR TEST VALVE, WATER FLOW DETECTOR, MAIN DRAIN VALVE AND OS&Y VALVE WITH SUPERVISORY SWITCH. SEE DWG F-6.00 FOR FIRE PROTECTION DETAILS.
- WASTE PIPES SHALL HAVE 1/4" PER FOOT GRADE.



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 San Francisco, CA (415) 557-4700
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Project _____

NAVIGATION CENTER

5T BRYANT STREET

Consultant _____

Issue _____ 11/2017

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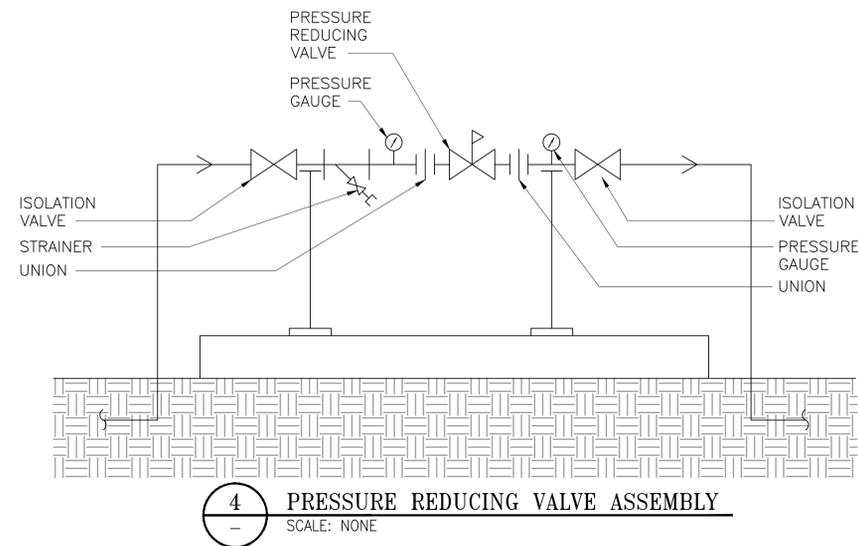
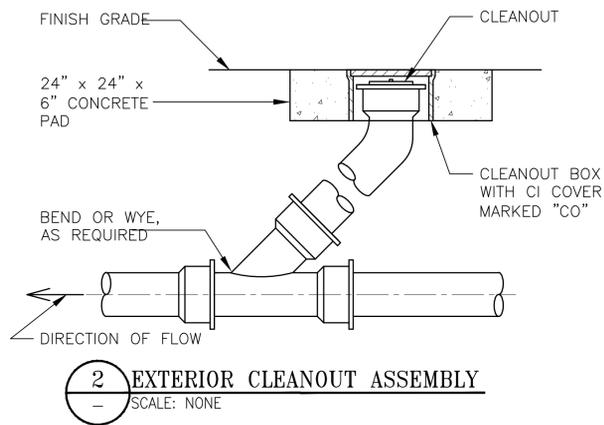
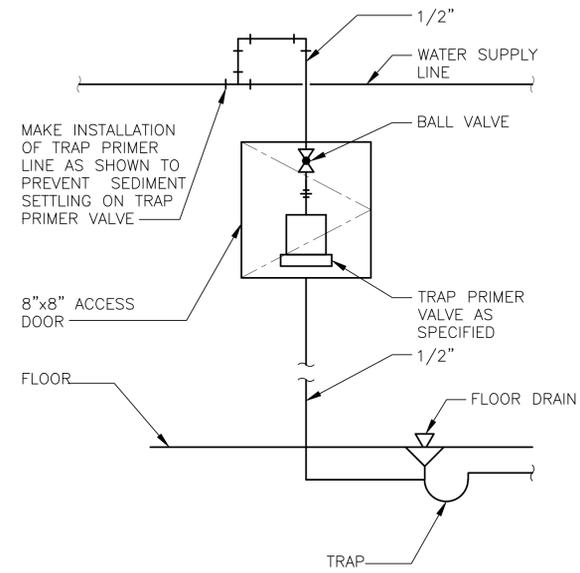
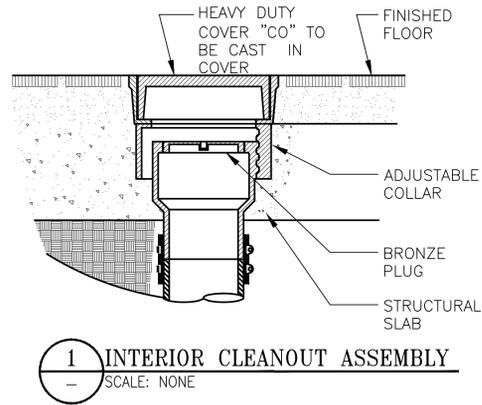
PLUMBING DETAILS

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P6.00

Scale AS NOTED

Job No. _____





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30 Van Ness Avenue Suite 4100
San Francisco, CA (415) 557-4700
94102-6028 Fax (415) 5574701

Project _____

NAVIGATION CENTER

5T □ BRYANT STREET

Consultant _____

Issue _____ 11/2017

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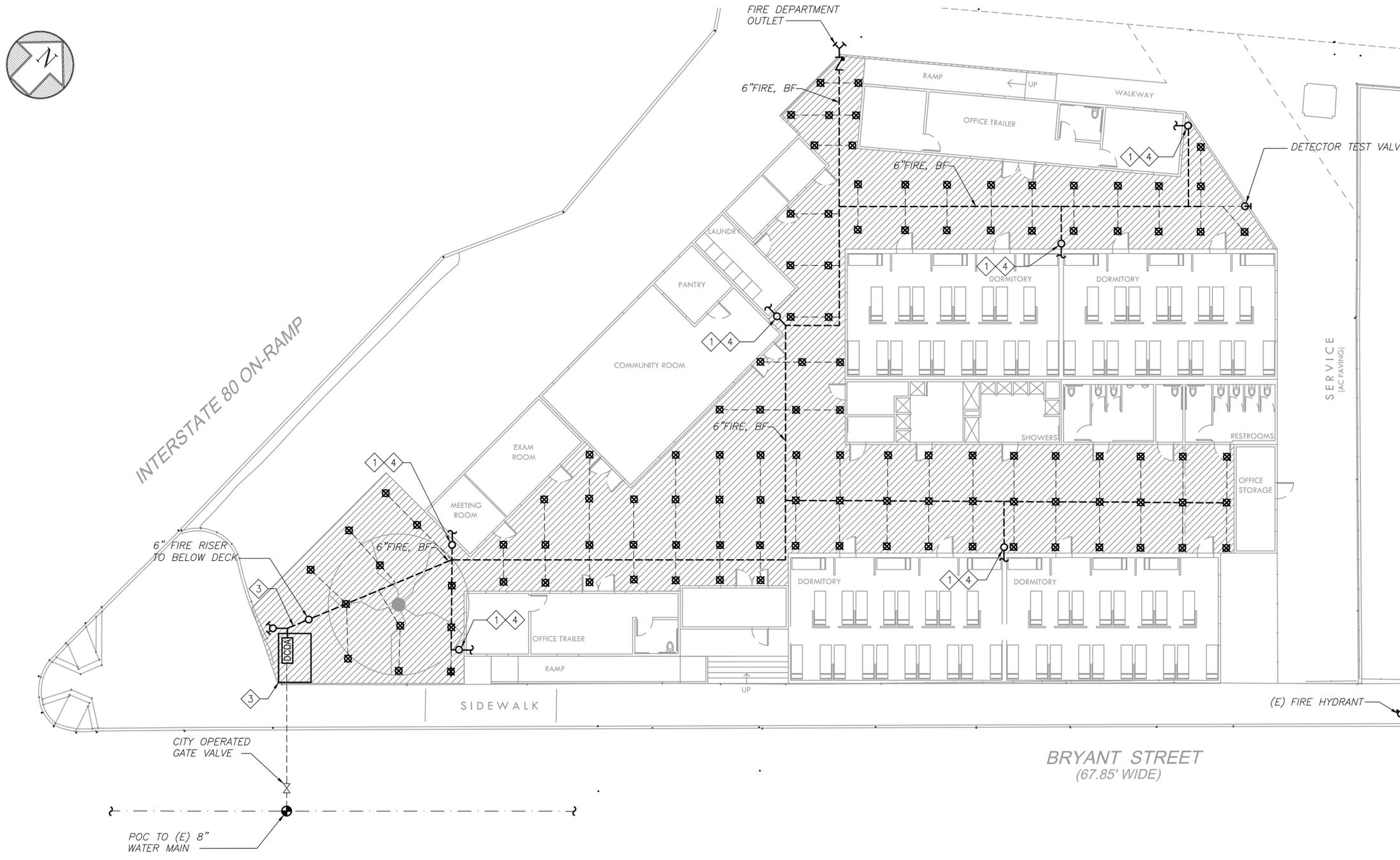
**SITE PLUMBING
FIRE PROTECTION
(DESIGN BUILD)**

Sheet No. _____

F-2.10

Scale AS NOTED

Job No. _____



SITE PLUMBING - FIRE PROTECTION

SCALE: 1"=10'

GENERAL NOTES:

1. THE CONTRACTOR SHALL USE AN APPROVED METHOD TO PERFORM COMPUTERIZED HYDRAULIC CALCULATION BASED ON HYDRANT FLOW TEST RESULTS.
2. LOCATIONS OF STUB OUT FOR SPRINKLER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL PIPING AND COORDINATE WITH OTHER TRADES BEFORE INSTALLING ANY PIPING.
3. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER ELEMENTS WHICH MAY BE REQUIRED. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, FIXTURES, ETC AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE (E) SITE CONDITIONS AND FEATURES PRIOR TO BID, AND THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, BENDS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO THE CITY.
4. SPRINKLER LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL SPRINKLER LOCATIONS SHALL BE COORDINATED IN THE FIELD BASED ON NFPA 16 SPACING REQUIREMENTS. SPRINKLER SYSTEM SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED IN ACCORDANCE WITH NFPA 16 SPACING REQUIREMENTS.

SHEET NOTES:

1. STUB OUT FOR FUTURE TRAILER/ WAREHOUSE/MODULAR BUILDING CONNECTION. THIS IS AN APPROXIMATE LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IN THE FIELD AND COORDINATE WITH OTHER TRADE TO AVOID CONFLICTS PRIOR TO INSTALLATION OF ANY UNDERGROUND AND ABOVE GROUND PIPING.
2. FIRE LINE SHALL HAVE MINIMUM 3'-0" SOIL COVERAGE PER NFPA 24. SEE DWG F-6.00 FOR FIRE PROTECTION DETAILS.
3. UTILITY PAD WITH BACKFLOW PREVENTER, SFPUC WATER METER, DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), INSPECTOR TEST VALVE, WATER FLOW DETECTOR, MAIN DRAIN VALVE AND OS&Y VALVE WITH SUPERVISORY SWITCH. SEE DWG F-6.00 FOR FIRE PROTECTION DETAILS.
4. TRAILER FIRE SPRINKLER RISER. TRAILER FIRE SPRINKLER SYSTEM PROVIDED BY MANUFACTURER.

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February 2, 2018

Sent Via Email - Julia.Laue@sfdpw.org

Attention: Julia Laue
30 Van Ness Avenue, #4100
San Francisco, CA 94102

Reference: 5th & Bryant Navigation Center

Subject: Budget Proposal – R1

McGuire and Hester (M&H) is pleased to provide the following budget proposal for the above referenced project. Budget is based on city supplied Site Information plan set dated 1/19/18. There is no soil or analytic documentation to date. The project plans are conceptual and will need to be developed for construction.

McGuire and Hester proposes to furnish and install the work outlined in the breakdown:

| Item | Description | Unit | Total |
|------|--------------------------------|------|---------------|
| 1 | Mobilize & Demobilize | LS | \$ 9,525.00 |
| 2 | Demolition & Site Strip | LS | \$ 27,700.00 |
| 3 | SWPPP & Site Temp Fence | LS | \$ 33,235.00 |
| 4 | Sanitary / Storm Drain System | LS | \$ 127,792.00 |
| 5 | Domestic Water System | LS | \$ 151,850.00 |
| 6 | Fire System | LS | \$ 219,195.00 |
| 7 | Grade Site | LS | \$ 32,735.00 |
| 8 | A/B Placement at Road | LS | \$ 11,455.00 |
| 9 | A/C Placement at Road | LS | \$ 19,030.00 |
| 10 | Deck System | LS | \$ 397,230.00 |
| 11 | Electrical System / Site Power | LS | \$ 295,800.00 |

Subtotal LS \$ 1,325,547.00

| | | |
|---|----|--------------|
| Alt - 2" Gravel Site | LS | \$ 24,100.00 |
| Alt - Engineering / Deck System | LS | \$ 7,800.00 |
| Allowance - Precon Coordination Services | LS | \$ 25,000.00 |
| Allowance - Analytic Soil Testing | LS | \$ 11,250.00 |
| Allowance - Fence System | LS | \$ 20,220.00 |
| Allowance - Lighting | LS | \$ 44,930.00 |
| Allowance - Health & Safety Site Assessment | LS | \$ 15,000.00 |

\$1,325,547.00
+\$148,300.00 (Allowances)
\$1,473,847.00
+10% Contingency (\$147,385)
\$1,621,232 (NTP @ \$1,700,000)

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CORPORATE OFFICE 2810 HARBOR BAY PKWY ALAMEDA CA 94502 ● OAKLAND OFFICE 9009 RAILROAD AVE

SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PI

Contractors License Numbers: CA: 95879, AZ: 251428, NV: 72399, OR: 184930

DIR: 1000000033



Inclusions:

Demolition and Rough Grading:

1. Perform potholing to confirm location and depth of existing utilities shown on plans.
 - a. 6 – EA
2. Demolish existing above-grade improvements and structures as needed.
3. Demolish conflicting AC and PCC flatwork improvements as needed.
 - a. SS/ SD system sidewalk and street.
 - b. Dom water sidewalk and street.
 - c. Fire water sidewalk and street.
4. Strip site of vegetation and stockpile onsite for future use in landscape areas
 - a. 2" Strip as needed.
5. Excavate, fill and compact onsite soils
 - a. Re shape / rough grade site for positive drainage – 21,435 SF
 - b. All soil to remain onsite.
6. Establish SWPPP – 1 EA
 - a. File with State – 1 EA
7. Install initial erosion control measures.
 - a. Basic measures
 - b. CB protection – 4 EA.
 - c. Wattle placement – 650 LF
8. Temporary Fence – 625 LF
 - a. Rental period – 3 MO.

Finish Grade and Paving:

1. Finish subgrade to within +/- 0.10' vertical tolerance for:
 - a) Crushed Rock 2" section at site – 21,435 SF
 - b) ¾" CI II A/B recycle at roadway section – 2,066 SF
2. Furnish and install Class II aggregate base:
 - a. 6" at light vehicular pavement – 2,066 SF
3. Furnish and install asphalt concrete pavement:
 - a. 3" at light vehicular sections – 2,066 SF
4. Furnish and spread necessary prime coat and edge tacking
5. Furnish and install specified fog seal coat
6. Remove and replace existing sidewalk and curb and gutter for the installation of a new PCC driveway entrance at new service road.

Underground Utilities:

1. **Storm Drain / Sanitary Sewer:**
 - a. 352 lf of 4" - 8" CIP SD / SS
 - b. CO & Stubs – 13 EA
 - c. Connections to MOD buildings – 5 EA
 - d. Tie in at existing 21" VCP – 1 EA
 - e. Street restoration at trench line only – Included
 - f. Sidewalk restoration at trench line only – Included
 - g. Trench plate protection included.
 - h. Traffic control Included
2. **Fire Water Service:**

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SACRAMENTO OFFICE 1016 N. MARKET BLVD # 20 SACRAMENTO CA 95834 ● PH 916 372 8910

Contractors License Numbers: CA: 95829, AZ: 251628, NV: 72399, OR: 184630

CIR: 100000033



- a. 40 LF of 6" C900 at Offsite to P/L.
- b. Traffic control included.
- c. 903 LF of onsite Fire System Piping / under deck system.
 - i. Sch 10 Roll Grooved.
- d. Electric fire pump Included.
- e. Connections to buildings – 5 EA.
- f. CAD drawings – included.
- g. Valves install – 1 EA.
- h. DCDA – 1 EA
- i. Tie in at existing 8" main by SFW
 - i. All support work by M&H
 - ii. Projected 1 day.
- j. Street restoration included.
- k. Sidewalk restoration included.
- l. Bacteria & pressure testing included.

3. Domestic Water Service:

- a. 40 LF of 3" C900 at offsite to P/L.
- b. Tie in at existing 8" main by SFW
 - i. All support work by M&H
 - ii. Projected 1 day.
- c. Onsite / above grade 1" – 3" Type L copper pipe system – 340 LF
 - i. Onsite system will be hung from deck.
- d. Connections to MOD buildings – 5 EA.
- e. Meter install support – 1 EA
 - i. Meter install by SFW
- f. BFP install – 1 EA
- g. Valves – 5 EA
- h. Water hammer arrestors – 5 EA
- i. Traffic control included.
- j. Test system included.
- k. Bacteria testing included

Deck System:

- 1. Bison support install included.
 - a. Based on 490 EA Vert Locations
- 2. Lateral bracing 2" x 4" – 31 EA
- 3. Structural posts 6" x 6" – 14 EA
- 4. Edge posts 4" x 4" – 75 EA
- 5. Sidewalls, (deck skirt section) and railing system – 1,557 SF
- 6. Stairs – 54 SF
- 7. Ramps – 2 EA
- 8. Girders, joists & perimeter – 4,532 LF
- 9. Deck 2"x4" PT – 6,995 SF
- 10. Trellis systems – 266 SF (Plan View)
- 11. AC unit protection systems – 495 SF
- 12. Seal wood material included
- 13. Hand rails at ramp - 120 LF
- 14. Engineering price included as an alternate

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CIR:100000033



15. Fence system allowance based on 250 LF of 8' chain link fence with fabric.
16. Fence system allowance based on 4 EA. Sliding gates.

Electrical System:

1. Per Sht E3.0
2. F&I – precast transformer pad and bollards
3. F&I – main switchboard and pad
4. F&I – 1.5" GRSC conduit
5. F&I – 2.5" GRSC conduit
6. F&I – 6" PVC conduits
7. Trenching and excavation to PG&E power pole at sidewalk
8. Sidewalk restoration included – 250 SF.
9. Allowance Proposal is based on 4 EA light standards and associated conduits.

Exclusions:

1. Clearing, grubbing or removal of existing trees, shrubs, ground cover, sod, stumps, roots, etc.
2. Demolition of existing pavements, curbs, slabs, footings or structures not shown at improvements.
3. Disposal fees for asphalt concrete containing fabric or other materials unacceptable to recycle facilities.
4. Structural excavation or backfill.
5. Handling, removal or disposal of the spoils generated by others.
6. Pavement seals, striping, markings, markers, parking bumpers or signage.
7. Drain rock, sand or vapor mitigation measures.
8. Headers at asphalt pavement.
9. Soil sterilant.
10. Asphalt oil escalation. Current price of asphalt is \$450.00 per liquid ton.
11. Dewatering of subsurface ground water or control of rain / surface water.
12. Cathodic protection design and installation.
13. Water meters, bypass meters and associated fees.
14. Fire system calculations and drawings.
15. Backflow and check valve certification other than by the manufacturer.
16. Export of soils.
17. Coring or boring.
18. Relocation, protection and removal of existing utilities, sub-surface obstructions or debris. It is assumed that all proposed improvements are free of conflicts.
19. Handling, removal or disposal of hazardous or contaminated substances.
20. Subgrade or trench stabilization by means of ripping, sub-excavation, fabric, chemical treatment, etc.
21. Dust control when our forces are not actively working on site.
22. Haul road and/or lay-down area installation, maintenance, repair or removal.
23. Air, settlement, vibration, sound, or other monitoring and mitigation.
24. Pre or post construction surveys (e.g. GPS, video, photographic, consultant, etc.).
25. Biologist services, wildlife surveys, demarcations and/or relocations. Rodent eradication or pest control.
26. Archeologist cost and related delays.
27. Tree trimming, root pruning, protection or arborist services.
28. Overtime, shift premiums or liquidated damages.
29. Traffic and pedestrian control measures, plans and fees.
30. M&H participation in composite cleanup crews, damage repair funds, or other similar composite activities, as well as related contract deductions.
31. Design, engineering and Building Information Modeling (BIM) participation.
32. Bond premium. Bonds must be requested at execution of contract.

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33. Survey and construction staking.
34. Testing and inspection.
35. Permits and fees.
36. Compliance with project specific equipment emission standards.
37. Project specific project accounting software (Textura) costs.

Clarifications:

1. Price based on the award of the complete scope of work included herein.
2. All other work not specifically included shall be considered excluded from this budget proposal.
3. Electrical panels on buildings by MOD Space.
4. Buildings and anchorage systems by others.
5. SFWD will perform all hot taps and tie in work.
6. SFWD will supply and install water meters & boxes as needed.
7. All Soil to remain onsite. No off haul has been included per coordination meetings with M&H & SFDPW.
8. Analytic soil testing and classification performed by SFDPW.
9. The inclusions, exclusions, and clarifications noted in this proposal shall be made a part of the contract and shall supersede any conflicting provisions.

Thank you for the opportunity to provide our proposal. If you have any questions, please feel free to call.

Sincerely,

McGuire & Hester

Ed Aldine

EST.

Estimate / Budget No.: 170556

License No. CA95879

Public Works Contractor Registration No. 1000000033

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Appendix A

Mark Farrell, Mayor
Mohammed Nuru, Director

Public Works Order No: 187147

CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS EMERGENCY DECLARED AND CONTRACT AWARDED

A significant number of persons are without the ability to obtain shelter resulting in a situation causing a threat to the health and safety of those persons. **Board Resolution NO. 444-17, File NO. 171256 approved 12/15/17** declares a homeless shelter emergency authorizing the Director of Public Works to construct, improve, or repair facilities pursuant to Administrative Code, Section 6.60(a).

Therefore, **an Emergency is declared to exist** under the provisions of Section 6.60 of the San Francisco Administrative Code, and

McGuire and Hester
2810 Harbor Bay Parkway
Alameda, CA 94502

is hereby awarded a contract with a not-to-exceed value of \$1,700,000.00 to construct a Navigation Center at the site known as 5th and Bryant. The not-to-exceed scope of work is for a construction contract and will be assigned on a task order basis. Task Orders will be reviewed by San Francisco Public Works.

Contractor shall indemnify and hold harmless the City & County of San Francisco, its officers, agents and employees and furnish certificates of insurance protecting himself, any sub-contractors and the City & County of San Francisco and its officers, agents and employees against claims arising out of work performed pursuant to this order with the City & County of San Francisco, its officers, agents and employees named as additional insured.

Commercial General Liability Insurance with limits not less than \$1,000,000 each occurrence, and \$2,000,000 general aggregate, combined single limit for bodily injury and property damage.

Commercial Automobile Liability Insurance with limits not less than \$1,000,000 each occurrence combined single limit for bodily injury and property damage, including owned, hired or non-owned vehicles, as applicable.

Workers' Compensation, in statutory amount, including Employers' Liability coverage with limits not less than \$1,000,000 each accident, injury or illness. Contractor is notified that in the event that Contractor employs professional engineering services for performing engineering or preparing design calculations, plans and specifications, retained engineers to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors or omissions in connection with professional services to be provided under the subject Contract.



Professional Liability, Contractor is notified that in the event that employs professional engineering services for performing engineering or preparing design calculations, plans and specifications, retained engineers to carry professional liability insurance with limits not less than \$1,000,000 each claim with respect to negligent acts, errors or omissions in connection with professional services to be provided under the subject contract.

This Order serves as the Notice to Proceed.

DISTRIBUTION:

McGuire and Hester

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Public Affairs: Jennifer.Blot@sfdpw.org

K2Systems: K2Systems@sfdpw.org

Contract Admin: ContractAdmin.Staff@sfdpw.org;

2/9/2018

2/12/2018

X Edgar Lopez

Lopez, Edgar

Deputy Director and City Architect

Signed by: Lopez, Edgar

X Mohammed Nuru

Nuru, Mohammed

Director of Public Works

Signed by: Nuru, Mohammed

