

Bill of Sale

For good and valuable consideration of \$0.00, HV Partners 1, L.P., a California Limited Partnership ("Seller"), does hereby sell, transfer and convey to AT&T California ("Buyer"), title to those portions of the facilities which are the identified as Buyer's facilities on the "as built" drawings attached hereto as Schedule 1 ("Personal Property"), subject to the terms and provisions hereof.

Seller has executed this Bill of Sale and bargained, sold, transferred, conveyed and assigned the Personal Property and Buyer has accepted this Bill of Sale and is purchasing the Personal Property: **AS IS AND WHEREEVER LOCATED, WITH ALL FAULTS AND WITHOUT ANY REPRESENTATIONS OR WARRANTIES OF WHATSOEVER NATURE, EXPRESS, IMPLIED OR STATUTORY, EXCEPT AS EXPRESSLY SET FORTH HEREIN BELOW, IT BEING THE INTENTION OF THE SELLER AND BUYER TO EXPRESSLY NEGATE AND EXCLUDE ALL WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Seller hereby assigns all warranties and guaranties relating to the construction of the Personal Property that were given by the independent contractor hired by Seller to construct the Personal Property. As used herein the term "**Correction Period**" shall mean one (1) year after "**Final Completion**" (as hereinafter defined). Seller shall, to Buyer's reasonable satisfaction, and provided that such work is not the subject of a warranty or guaranty assigned by Seller to Buyer, re-execute or otherwise remedy any defects in the Personal Property due to faulty workmanship that become apparent during the Correction Period. As used herein, the term "**Final Completion**" shall mean May 9, 2017.

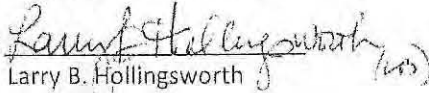
Dated this 21st day of June, 2019.

Signatures on following page.

SELLER


HV PARTNERS 1, LP,
a California limited partnership

By: HUNTERS POINT AFFORDABLE HOUSING, INC.,
a California nonprofit public benefit
corporation,
its managing general partner

By: 
Larry B. Hollingsworth
President


By: JSCo HUNTERS VIEW LLC,
a California limited liability company,
its co-general partner

By: JOHN STEWART COMPANY,
a California corporation,
its managing member

By: 
Jack D. Gardner
President

By: HV AMANI LLC,
a California limited liability company,
its co-general partner

By: DEVINE & GONG, INC.,
a California corporation,
its managing member

By: 
Chan U Lee
President

SCHEDULE 1

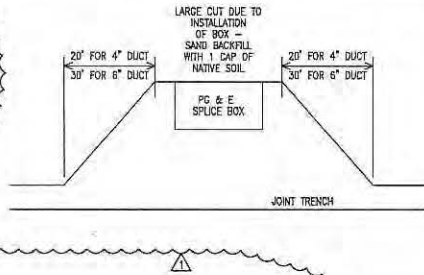
As Built Plans entitled:

Hunters View Phase I Joint Trench Plans
Sheets E-1 through E-21

Prepared by: NBA Engineering, Inc.

DRAWING INDEX

E-1	LEGEND, ABBREVIATIONS, DRAWING INDEX, AND GENERAL NOTES
E-2	JOINT TRENCH PLAN
E-3	JOINT TRENCH PLAN
E-4	JOINT TRENCH PLAN
E-5	JOINT TRENCH CONDUIT SCHEDULE
E-6	JOINT TRENCH DETAILS
E-7	JOINT TRENCH DETAILS
E-8	JOINT TRENCH DETAILS
E-9	JOINT TRENCH DETAILS
E-10	JOINT TRENCH DETAILS
E-11	JOINT TRENCH DETAILS
E-12	JOINT TRENCH DETAILS
E-13	JOINT TRENCH DETAILS
E-14	JOINT TRENCH DETAILS
E-15	JOINT TRENCH DETAILS
E-16	JOINT TRENCH DETAILS
E-17	JOINT TRENCH DETAILS
E-18	ELECTRICAL LIGHTING CONDUIT LAYOUT
E-19	COMMON AREA POWER CONDUIT LAYOUT
E-20	DTIS CONDUIT LAYOUT
E-21	COMCAST CONDUIT LAYOUT



ABBREVIATIONS

AIC	INTERRUPTING CAPACITY
C	COMCAST CONDUIT 4" OR 2"
CB	CIRCUIT BREAKER
(E)	EXISTING
FBO	FURNISHED BY OTHERS
FU	FUSE - DUAL-ELEMENT, TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND	GROUND
HP	HORSE POWER
IG	ISOLATED GROUND
K	kerrill (300K = 300 kerrill)
KDML	THOUSAND CIRCULAR MILL
KV	KILOVOLTS
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
M	MANHOLE
(N)	NEW
NEUT	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NT	NOT IN CONTRACT
P/F	POLICE/FIRE CONDUIT (DTIS) 4"
PB	PULL BOX
P	PRIMARY CONDUIT 4", OR 6"
PNL	PANEL
(R)	EXISTING TO BE REMOVED
S	SECONDARY CONDUIT 3"
SP	SPARE
SL	STREET LIGHT CONDUIT 1 1/2" GRS
T	AT&T CONDUIT 4" OR 2"
TBD	TO BE DETERMINED
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDER GROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHER PROOF (NEMA 3R)
XFR	TRANSFORMER

SUBSTRUCTURE VERIFICATION

TRENCHING AGENT
 PROPER DEPTH OF TRENCH AND SUBSTRUCTURES ARE IMPERATIVE TO THE DESIGN OF OUR UTILITY DISTRIBUTION SYSTEM.

IF A VARIANCE IS NECESSARY PLEASE NOTIFY PG&E SO THAT OUR INSPECTOR OR ENGINEERING DEPARTMENT CAN APPROVE AND INITIAL THOSE SECTIONS OF TRENCH AND/OR SUBSTRUCTURES WHICH DO NOT COMPLY WITH THE ORIGINAL DESIGN. THIS MUST BE DONE PRIOR TO INSTALLATION OF ANY SUBSTRUCTURES.

THE TRENCHING AGENT WILL BE HELD RESPONSIBLE FOR ANY UNAPPROVED DESIGN CHANGES IN TRENCH OR SUBSTRUCTURE DEPTH OR CONFIGURATION.

THIS DOES NOT SUPERCEDE, BUT IS IN ADDITION TO ANY OF THE NORMAL TRENCH INSPECTIONS YOUR PROJECT MAY REQUIRE.

DESIGN CHANGE COMPONENT
 ANY CHANGES TO THIS DESIGN
 MUST BE APPROVED BY

MARIO MELENDEZ 1-415-695-3518
 SAN FRANCISCO
 PG&E GAS ADE

LEGEND

⊗	SURFACE MOUNT TRANSFORMER 12KV-120/240V, 1PHASE, 3W
⊠	SURFACE MOUNT TRANSFORMER 12KV-120/208V, 3PHASE, 4W
1	PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE, TYPE I, 3' x 5' x 4' 6"
7	PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE TYPE III, 4'-6" x 6'-6" x 6'-0"
■	ELECTRICAL STREET LIGHT TYPE I PULL BOX 25 1/4" x 15 3/4" x 12"
⊞	PG&E TIE IN SPLICE BOX TYPE II 30" x 17" x 28"
■	TIE-IN STREET LIGHT SPLICE BOX TYPE III (35 1/4" x 22 1/4" x 12"+10) EXTENSION
P/F	POLICE AND FIRE ALARM PULL BOX (DTIS - PULLBOX) 30" x 24" x 18" CRISTY CAST WITH CONCRETE COVER AND DTIS INSIGNIA
⊞	FIRE ALARM PULLBOX WITH PULL STANCHION
□	AT&T PULL BOX
⊠	COMCAST PULL BOX
↓	GROUND ROD - 3/4", 12' LONG ON PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE GROUND ROD - 5/8", 10' LONG ON SECONDARY UNDERGROUND EQUIPMENT ENCLOSURE
⊞	METERING PEDESTAL
⊞	AT&T SWITCH BOARD MAIN DISTRIBUTION
— —	INLINE FUSE
□	UTILITY CABINET
—	PROPOSED TRENCH ROUTE
-C-C-	EXISTING GAS LINE
- - -	MATCH LINE
T1	17"x30"x26" W/POLYMER COVER
T2	24"x36"x42" W/POLYMER COVER
T3	30"x48"x36" W/POLYMER COVER
T4	30"x80"x36" W/POLYMER COVER
T5	36"x80"x48" WITH STEEL HAND OVER

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS AMENDED BY LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ELECTRICAL CODE REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BE FAMILIARIZED WITH THE EXISTING UTILITIES INSTALLATIONS, CONDITIONS, AND SYSTEMS RELATED TO THE SCOPE OF WORK.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, FEES AND EQUIPMENT SPECIFIED, INDICATED OR IMPLIED IN THESE DOCUMENTS TO ACCOMPLISH THE CONSTRUCTION IN A PROFESSIONAL, NORMANLIKE MANNER. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION TASKS INDICATED AND LOCAL CODES AND/OR ORDINANCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK AT ISSUE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED ELECTRICAL PERMITS AND INSPECTIONS.
- THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH OTHER DISCIPLINES DRAWINGS RELATED TO THE PROJECT FOR OTHER WORK TO BE PROVIDED.
- ANY WORK INSTALLED INCORRECTLY, OR BEFORE APPROVAL HAS BEEN OFFICIALLY GRANTED FOR THOSE ITEMS AT ISSUE, SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO CHARGE TO CLIENT.
- ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND COMPLETELY SERVICEABLE UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH EXISTING CONDITIONS BEFORE STARTING NEW WORK. VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN EQUIPMENT.
- FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTOR.
- ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR CONDUIT ROUTING IN THE JOINT TRENCH TO THE ENGINEER AND GET THE APPROVAL PRIOR TO INSTALLATION.
- ALL JOINT TRENCH CONDUIT SHALL COMPLY WITH PG&E GREEN BOOK 2010 STANDARD S545.3.
- CONTRACTOR SHALL INSTALL 3/4"x12" GROUND RODS IN ALL PRIMARY SUBSURFACE ENCLOSURES AND 5/8"x10" GROUND RODS IN ALL SECONDARY SUBSURFACE ENCLOSURES. THE RESISTANCE AT THE GROUND ROD SHALL MEET ARTICLE 250.56 NEC.
- ALL CONDUITS SYSTEMS SHALL BE PROVEN BY USING HANDRELS.
- ALL CONDUITS SHALL ENTER AND LEAVE ON THE SIDES OF THE PRIMARY ENCLOSURES.
- PRIMARY AND SECONDARY CONCRETE ENCLOSURES SHOULD NOT BE INSTALLED IN ANY DRIVEWAY AREA(S).
- WEDGE REDUCERS ARE REQUIRED IF THE CONDUIT KNOCKOUTS ARE 6" AND THE CONDUITS ARE 4".
- THE PUE WILL BE SECURED BY OWNER.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	SB	

NBA
 ENGINEERING INC.
 An American - Owned - Staffed
 Firm in the United States
 2000010000
 TEL: (415) 202-8890
 FAX: (415) 202-8838

DESIGNED BY: []
 CHECKED BY: []
 DRAWN BY: []
 A.T.

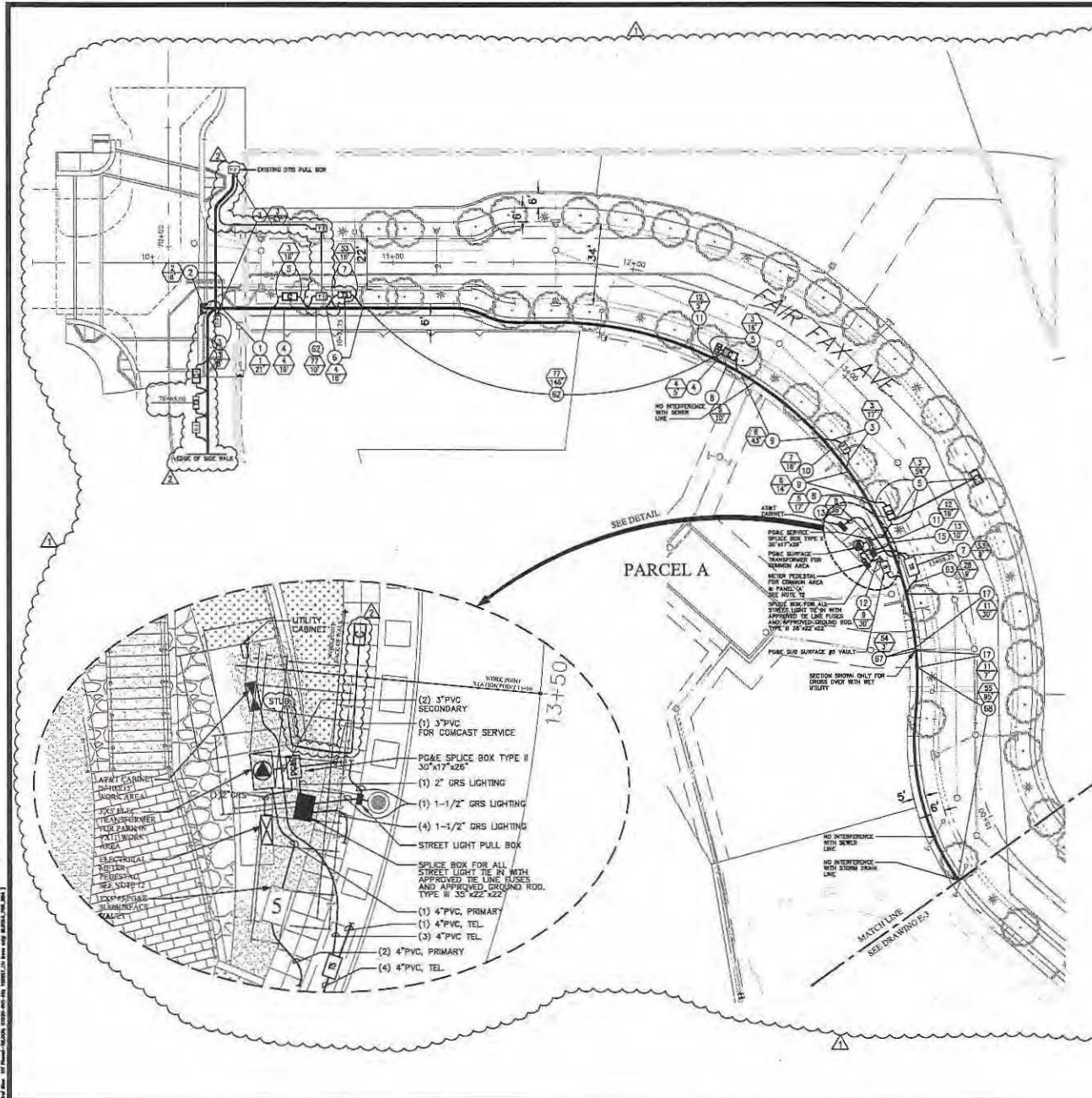
DATE

HUNTERS VIEW
 PHASE 1, INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

DRAWING INDEX, ABBREVIATION AND LEGEND

DATE: SEPT 09, 2011
 JOB NO.: 2007030A1
 DRAWING NUMBER

E-1



- NOTES**
1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-6 THROUGH E-17.
 3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWINGS E-5.
 4. FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 5. FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 6. FOR DTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 8. FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 11. FOR METERING PEDESTAL AND PANEL 'A' SEE DRAWING E-19.
 12. ELECTRICAL METER PEDESTAL SHALL BE INSTALLED BY PARK CONTRACTOR AND IS NOT PART OF THIS CONTRACT.
 13. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

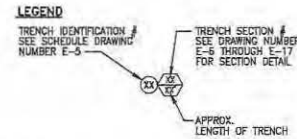
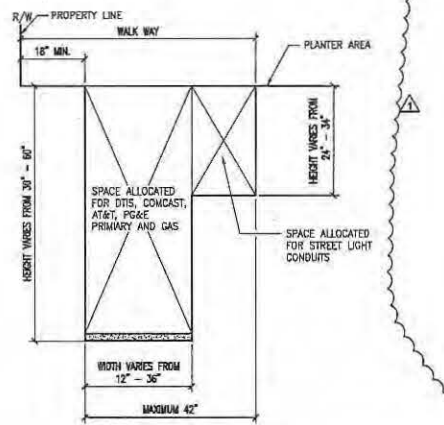


MINIMUM CLEARANCE AND COVER

	EP	LS	DRY	WET	FP	DR	COVER
ELEC. PRIMARY	-	3"	12"	12"	12"	12"	30" - 30" STREET
ELEC. SECONDARY	-	3"	12"	12"	6"	6"	18" - 24" STREET
CITY	12"	12"	-	3"	1"	12"	18"
TELEPHONE	12"	12"	1"	-	1"	12"	24" - 30" STREET
FIRE/POLICE	12"	12"	1"	-	12"	24"	30" STREET
GAS	12"	1"	12"	12"	-	24"	-

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	30"
4"	30"	36"
5"	36"	42"
6"	42"	48"



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	END	
2	7-2013	AS-BUILT	

NBA ENGINEERING, INC.
San Francisco - Oakland - Long Beach
2400 CALIFORNIA STREET, SUITE 200
SAN FRANCISCO, CA 94115
TEL: (415) 202-8040
FAX: (415) 202-8044

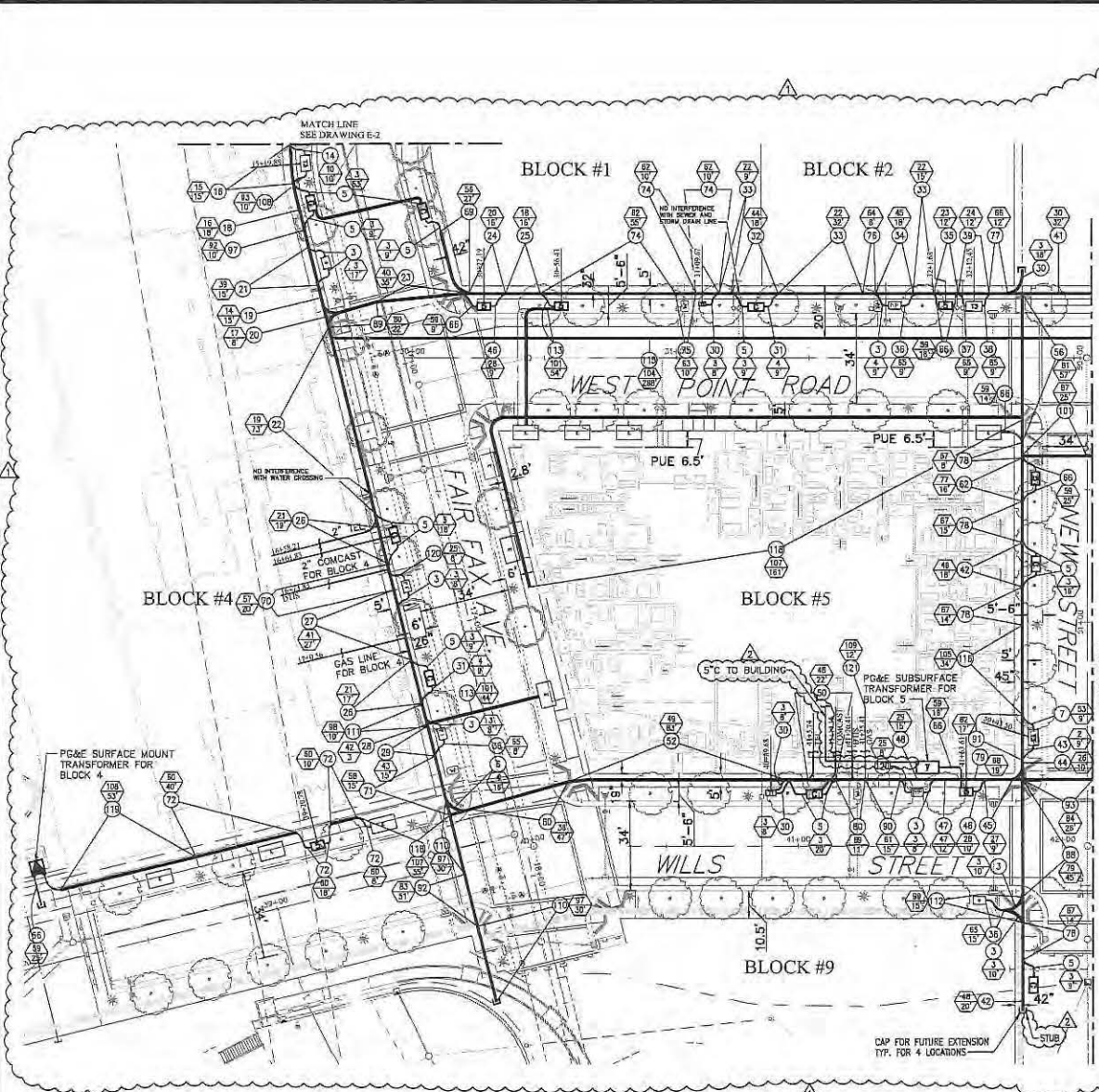
DRAWN BY: A.T.
CHECKED BY: J.P.L.
DESIGNED BY: J.P.L.
DATE:

HUNTERS VIEW
PLAN 5 - FA-17-10-1
SAN FRANCISCO, CALIFORNIA

JOINT TRENCH PLAN

DATE: SEPT 08, 2011
JOB NO.: 2007030.01
DRAWING NUMBER: E-2

I:\Projects\2007\20070330\1\20070330.dwg
 Date Plotted: 09/05/2011 10:43:11 AM
 Plotter: HP DesignJet 2450



NOTES

1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-6 THROUGH E-17.
3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWINGS E-5.
4. FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED FULL BOXES SEE DRAWING E-19.
5. FOR LOCATION OF SERVICES TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED FULL BOXES SEE DWG E-18.
6. FOR DIS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED FULL BOXES SEE DRAWING E-20.
7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED FULL BOXES SEE DRAWING E-21.
8. FOR AT&T CONDUIT LAYOUT AND SIZE OF FULL BOXES SEE AT&T DRAWING.
9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
11. FOR METERING PEDestal AND PANEL 'A' SEE DRAWING E-19.
12. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

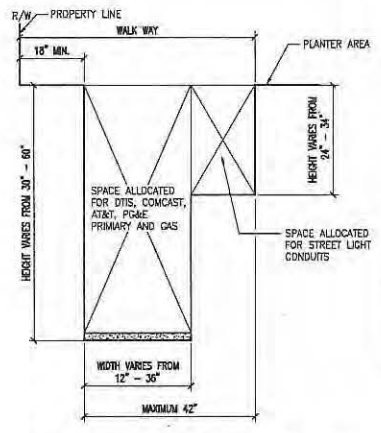


MINIMUM CLEARANCE AND COVER

	E	ES	CH	ELE	TP	GS	CMGR
ELEC. PRIMARY	-	3"	12"	12"	12"	12"	30" - 36" STREET
ELEC. SECONDARY	3"	-	12"	12"	12"	8"	10" - 24" STREET
CHY	12"	12"	-	1"	1"	12"	16"
TELEPHONE	12"	12"	1"	-	1"	12"	24" - 36" STREET
FIRE/POLICE	12"	12"	1"	-	12"	24"	36" STREET
GS	12"	6"	12"	12"	-	-	24"

MINIMUM BEND RADIUS

CONDUIT DIA.	VERTICAL RDB	HORIZONTAL RDB
3"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



LEGEND

- TRENCH IDENTIFICATION # SEE SCHEDULE DRAWING NUMBER E-5
- TRENCH SECTION # SEE DRAWING NUMBER E-6 THROUGH E-17 FOR SECTION DETAIL
- APPROX. LENGTH OF TRENCH

REVISIONS

NO.	DATE	REVISION	APPR.
12	12-11	ISS	
7	2013	AS-BUILT	

ENGINEERING INC.
San Francisco - Walnut - Santa Clara
San Francisco, CA 94102
Tel: (415) 702-0900
Fax: (415) 702-0905

DRAWN BY: A.T.

DATE:

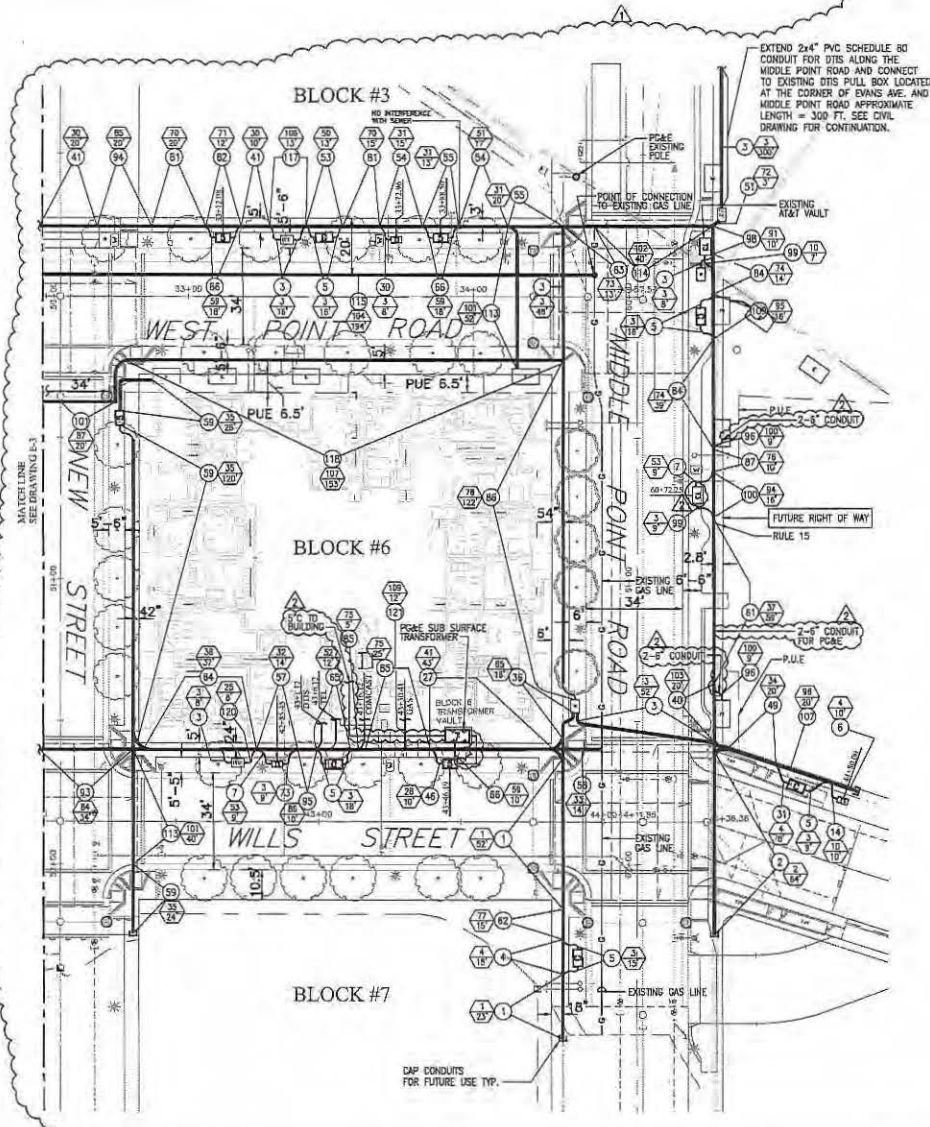
ISSUED BY: F.S.H.

ORDERED BY:

HUNTERS VIEW
PLANS - SAN FRANCISCO, CALIFORNIA

JOINT TRENCH PLAN

DATE: SEPT 09, 2011
JOB NO.: 20070330.A1
DRAWING NUMBER:
E-3



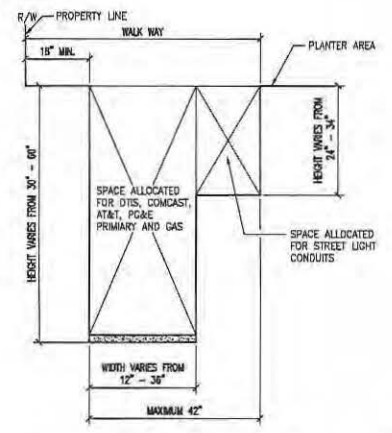
- NOTES**
1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-4 THROUGH E-17.
 3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWING E-5.
 4. FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 5. FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 6. FOR DTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 8. FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 11. FOR METERING PEDESTAL AND PANEL 'A' SEE DRAWING E-19.
 12. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

MINIMUM CLEARANCE AND COVER

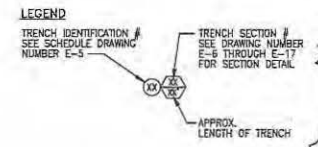
	EL	ES	CH	TELE	F/P	CS	COVER
ELEC. PRIMARY	2"	12"	12"	12"	12"	12"	30" - 36" STREET
ELEC. SECONDARY	2"	12"	12"	12"	12"	12"	18" - 24" STREET
DATA	12"	12"	1"	1"	12"	18"	
TELEPHONE	12"	12"	1"	1"	12"	24" - 30" STREET	
FIRE/POLICE	12"	12"	1"	1"	12"	24" - 30" STREET	
CS	12"	8"	12"	12"	12"	24"	

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



JOINT TRENCH CONFIGURATION
SCALE: N.T.S.
SCALE: 1"=20'



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	
2	7-2013	AS-BUILT	

NBA ENGINEERING INC.
San Francisco - Walnut - Stage 6 only
San Francisco - 1000 Market Street
San Francisco, CA 94102
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FAX: (415) 775-8800

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Blank]

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA

JOINT TRENCH PLAN

DATE: SEPT 09, 2011
JOB NO.: 2007030.A1
DRAWING NUMBER: [Blank]

E-4

1/17/2010 10:41 AM BY: HUNTERS VIEW ELECTRICAL ENGINEERING

JOINT TRENCH CONDUIT SCHEDULE

TRENCH IDENTIFICATION NUMBER	# OF 1" PRIMARY CONDUIT	# OF 1 1/2" PRIMARY CONDUIT	# OF 2" PRIMARY CONDUIT	# OF 3" SECONDARY CONDUIT	# OF 3" SECONDARY SPINE CONDUIT	# OF 1.5" STREET LIGHT CONDUIT	# OF 4" PIGTAIL CONDUIT	# OF 2" PIGTAIL CONDUIT	# OF 1 1/2" TELLER CONDUIT	# OF 1" TELLER CONDUIT	# OF 4" OF 2" CONDUIT	# OF 2" OF 2" CONDUIT	# OF 4" OF 2" CONDUIT	DETAIL REFERENCE SEE DRAWING E-114	TRENCH IDENTIFICATION NUMBER	TRENCH DEPTH IN FEET	APPROXIMATE LENGTH OF THE TRENCH IN FEET
1														(1)	317225	85	
2														(2)	317215	72	
3														(3)	317212	500	
4														(4)	317212	35	
5														(4)	317212	280	
6														(4)	317212	42	
7														(5)	317209	89	
8														(5)	457218	18	
9														(6)	527215	57	
10														(7)	457216	91	
11														(10)	207249	21	
12														(9)	437212	30	
13														(8)	457216	36	
14														(10)	317212	20	
15														(11)	497225	18	
16														(15)	537207	15	
17														(11)	537225	37	
18														(16)	537224	18	
19														(14)	537235	15	
20														(17)	317207	8	
21														(19)	537207	15	
22														(19)	457225	73	
23														(20)	537207	30	
24														(20)	317214	18	
25														(16)	537224	18	
26														(21)	497225	36	
27														(21)	527228	70	
28														(22)	537225	3	
29														(23)	537225	15	
30														(2)	317212	50	
31														(4)	317212	28	
32														(4)	537218	18	
33														(22)	537228	36	
34														(22)	537222	18	
35														(23)	457225	12	
36														(23)	317212	48	
37														(24)	317214	8	
38														(24)	317214	8	
39														(24)	537228	12	
40														(18)	317215	20	
41														(20)	537222	85	
42														(25)	537212	38	
43														(2)	317215	8	
44														(26)	537218	18	
45														(27)	547230	8	
46														(27)	427212	29	
47														(27)	527225	12	
48														(27)	497224	15	
49														(24)	317222	22	
50														(28)	497225	39	
51														(28)	497225	22	
52														(28)	317218	3	
53														(28)	537218	18	
54														(29)	547230	8	
55														(31)	317215	33	
56														(31)	317222	57	
57														(31)	497225	74	
58														(32)	317212	14	
59														(32)	427212	170	
60														(33)	517228	47	

JOINT TRENCH CONDUIT SCHEDULE

TRENCH IDENTIFICATION NUMBER	# OF 1" PRIMARY CONDUIT	# OF 1 1/2" PRIMARY CONDUIT	# OF 2" PRIMARY CONDUIT	# OF 3" SECONDARY CONDUIT	# OF 3" SECONDARY SPINE CONDUIT	# OF 1.5" STREET LIGHT CONDUIT	# OF 4" PIGTAIL CONDUIT	# OF 2" PIGTAIL CONDUIT	# OF 1 1/2" TELLER CONDUIT	# OF 1" TELLER CONDUIT	# OF 4" OF 2" CONDUIT	# OF 2" OF 2" CONDUIT	# OF 4" OF 2" CONDUIT	DETAIL REFERENCE SEE DRAWING E-114	TRENCH IDENTIFICATION NUMBER	TRENCH DEPTH IN FEET	APPROXIMATE LENGTH OF THE TRENCH IN FEET
61														(3)	557218	39	
62														(1)	317208	187	
63														(4)	427212	8	
64														(1)	547220	37	
65														(1)	577222	12	
66														(2)	577212	153	
67														(4)	457222	3	
68														(4)	537225	35	
69														(6)	317212	27	
70														(1)	457225	30	
71														(1)	727225	15	
72														(1)	317212	76	
73														(1)	317212	9	
74														(3)	537222	75	
75														(3)	727222	18	
76														(3)	727225	8	
77														(3)	897224	12	
78														(1)	537215	51	
79														(1)	417227	19	
80														(1)	737225	11	
81														(2)	727225	35	
82														(2)	317218	12	
83														(2)	457224	13	
84														(2)	317212	53	
85														(2)	757225	30	
86														(2)	317212	122	
87														(2)	567222	18	
88														(1)	577248	47	
89														(3)	577222	22	
90														(1)	527227	15	
91														(1)	537212	17	
92														(1)	557228	51	
93														(1)	577225	80	
94														(2)	717225	39	
95														(1)	547225	10	
96														(1)	317218	18	
97														(4)	357225	19	
98														(1)	317212	10	
99														(3)	317212	7	
100														(1)	507222	16	
101														(1)	247218	1513	
102														(1)	247218	45	
103														(2)	287212	39	
104														(2)	317225	61	
105														(2)	427212	20	
106														(2)	317215	16	
107														(2)	317215	19	
108														(1)	857225	50	
109														(1)	317227	10	
110														(1)	457218	15	
111														(1)	577212	190	
112														(1)	437222	40	
113														(1)	357212	482	
114														(1)	537215	34	
115														(2)	317218	13	
116														(1)	297227	444	
117														(1)	317212	53	
118														(2)	317215	24	
119														(1)	297227	36	

- GENERAL NOTE
1. DETAIL REFERENCE NUMBER WITH STAR NOTATION IS SIMILAR OR VERY CLOSE TO SAME REFERENCE NUMBER WITHOUT STAR.
 2. FOR JOINT TRENCH IDENTIFICATION NUMBER REFER TO DRAWINGS E-2, E-3, E-4 AND E-18.
 3. FOR JOINT TRENCH DETAIL REFER TO DRAWINGS E-6 THROUGH E-17.

NBA
 ENGINEERING, INC.
 500 Franklin Street - 4th Floor
 San Francisco, CA 94102
 TEL: (415) 398-8140
 FAX: (415) 392-8058

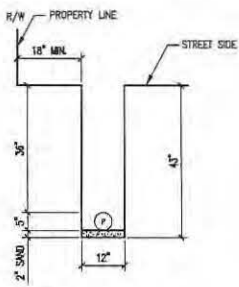
ISSUED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: _____

HUNTERS VIEW
 ELECTRICAL ENGINEERING
 SAN FRANCISCO, CALIFORNIA

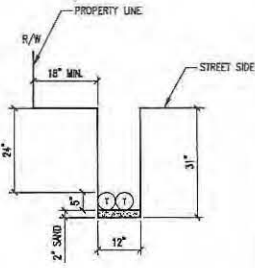
JOINT TRENCH CONDUIT SCHEDULE

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

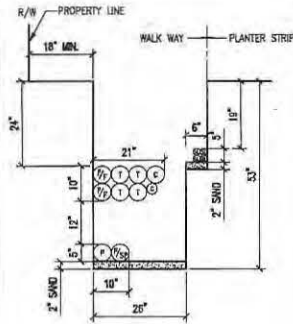
DATE: SEPT 09, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER:
E-5



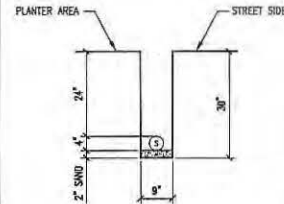
9 JOINT TRENCH DETAIL
N.T.S.



10 JOINT TRENCH DETAIL
N.T.S.



11 JOINT TRENCH DETAIL
N.T.S.



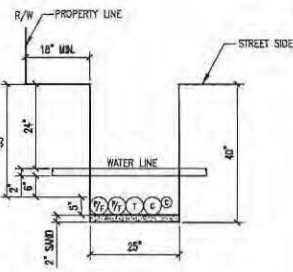
12 JOINT TRENCH DETAIL
N.T.S.

GENERAL NOTES:

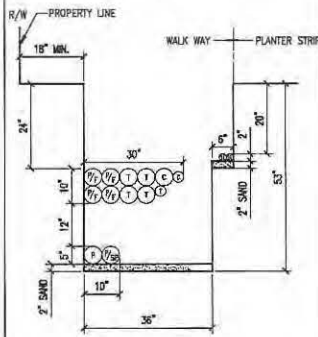
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 1' BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

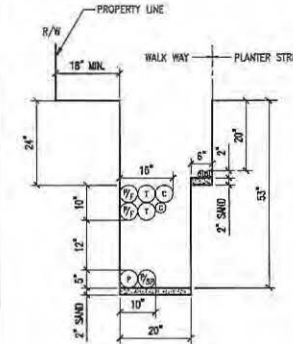
F = PRIMARY CONDUIT 4" OR 6"
P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
S = SECONDARY CONDUIT 3"
S/SP = SECONDARY SPARE CONDUIT 3"
SL = STREET LIGHT CONDUIT 1.5"
T = AT&T CONDUIT 4" OR 2"
C = COMCAST CONDUIT 4" OR 2"
P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
G = GAS CONDUIT 4" OR 2"



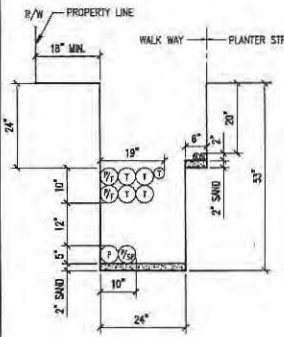
13 JOINT TRENCH DETAIL
N.T.S.



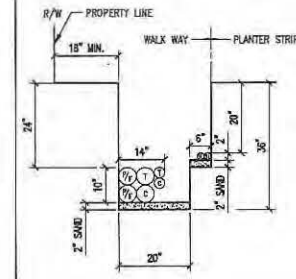
14 JOINT TRENCH DETAIL
N.T.S.



15 JOINT TRENCH DETAIL
N.T.S.



16 JOINT TRENCH DETAIL
N.T.S.



17 JOINT TRENCH DETAIL
N.T.S.

REVISIONS

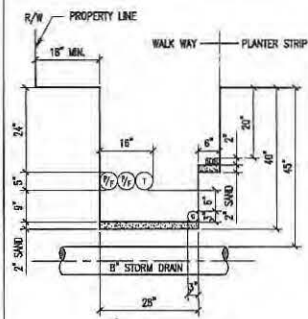
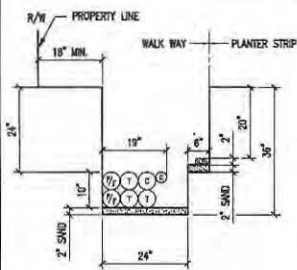
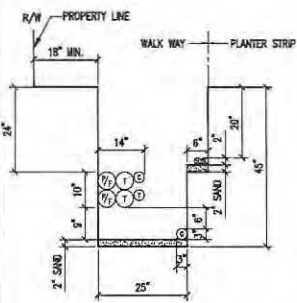
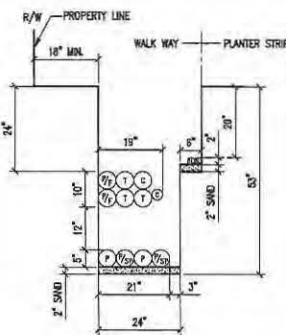
NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

NBA
ENGINEERING INC.
 500 Mission - 10th - 10th Floor
 SAN FRANCISCO, CA 94103
 TEL: (415) 774-8800
 FAX: (415) 774-8830

DESIGNED BY
 FOR
 CHECKED BY
 DATE

HUNTERS VIEW
 PHASE 1 INFRA STRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO.: 2007030-A1
 DRAWING NUMBER:

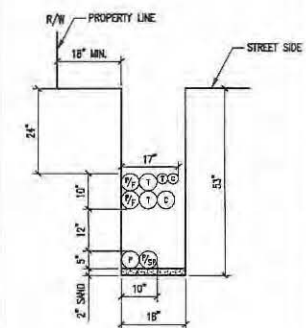
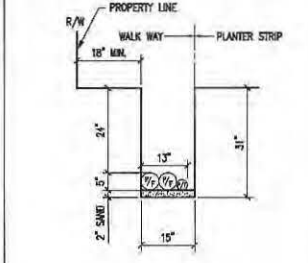
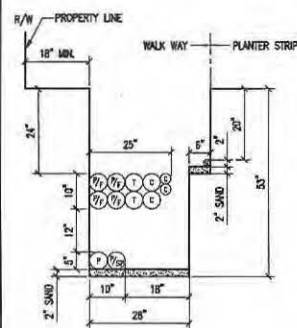
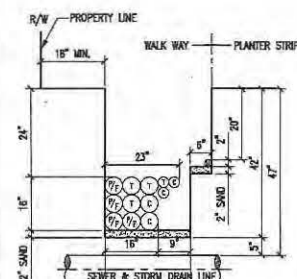
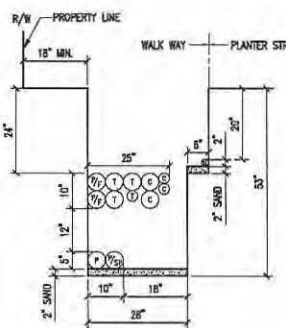


18 JOINT TRENCH DETAIL N.T.S.

19 JOINT TRENCH DETAIL N.T.S.

20 JOINT TRENCH DETAIL N.T.S.

21 JOINT TRENCH DETAIL N.T.S.



22 JOINT TRENCH DETAIL N.T.S.

23 JOINT TRENCH DETAIL N.T.S.

24 JOINT TRENCH DETAIL N.T.S.

25 JOINT TRENCH DETAIL N.T.S.

26 JOINT TRENCH DETAIL N.T.S.

- GENERAL NOTES:**
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
 - REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
 - ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
 - REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
 - REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
 - REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
 - REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
 - REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
 - REFER TO POLE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

- LEGEND:**
- P = PRIMARY CONDUIT 4" OR 6"
 - P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
 - S = SECONDARY CONDUIT 3"
 - S/SP = SECONDARY SPARE CONDUIT 3"
 - SL = STREET LIGHT CONDUIT 1.5"
 - T = AT&T CONDUIT 4" OR 2"
 - C = COMCAST CONDUIT 4" OR 2"
 - P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
 - G = GAS CONDUIT 4" OR 2"

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	IR	

NBA
ENGINEERING, INC.
 2000 CALIFORNIA STREET, SUITE 200
 SAN FRANCISCO, CA 94109
 TEL: (415) 771-8830
 FAX: (415) 771-8838

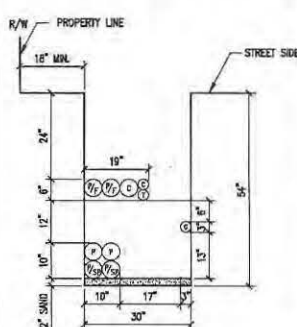
DESIGNED BY: _____
 DRAWN BY: A.T.
 CHECKED BY: _____
 DATE: _____

RESIGNED BY: _____
 ORDER BY: _____

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

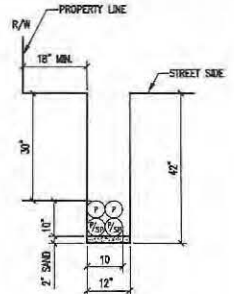
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER:



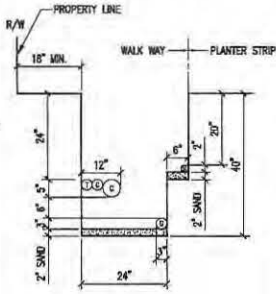
27 JOINT TRENCH DETAIL

N.T.S.



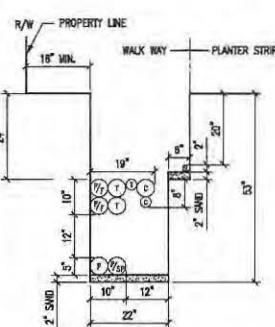
28 JOINT TRENCH DETAIL

N.T.S.



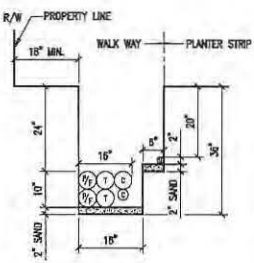
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N.T.S.



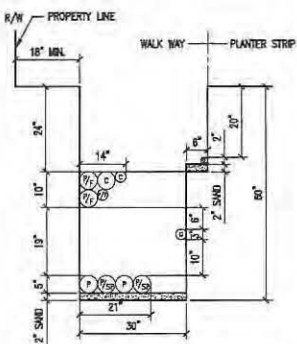
30 JOINT TRENCH DETAIL

N.T.S.



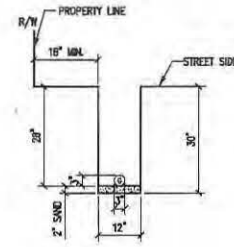
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N.T.S.



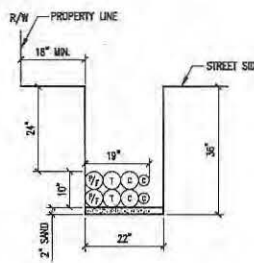
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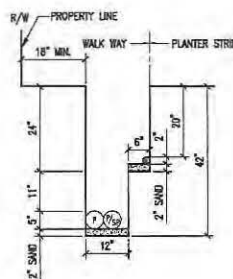
33 JOINT TRENCH DETAIL

N.T.S.



34 JOINT TRENCH DETAIL

N.T.S.



35 JOINT TRENCH DETAIL

N.T.S.

GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6\"/>
- 4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- 5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- 6. REFER TO E-20 FOR DTS CONDUIT LAYOUT.
- 7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- 8. REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- 9. REFER TO POBE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

- P = PRIMARY CONDUIT 4\"/>
- P/SP = PRIMARY SPARE CONDUIT 4\"/>
- S = SECONDARY CONDUIT 3\"/>
- S/SP = SECONDARY SPARE CONDUIT 3\"/>
- SL = STREET LIGHT CONDUIT 1.5\"/>
- T = AT&T CONDUIT 4\"/>
- C = COMCAST CONDUIT 4\"/>
- P/F = POLICE AND FIRE (DTS) CONDUIT 4\"/>
- G = GAS CONDUIT 4\"/>

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	IB	

NBA
ENGINEERING INC.
 500 Fremont - 8th Fl - San Francisco, CA 94104
 SAN FRANCISCO, CA 94104
 TEL: (415) 774-1100
 FAX: (415) 772-1830

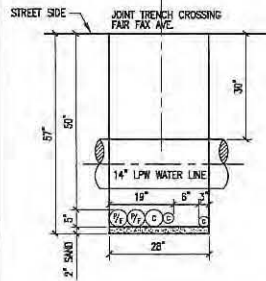
DRAWN BY: A.T.
 CHECKED BY: DATE:
 DESIGNED BY: DATE:

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO.: 20107030.A1
 DRAWING NUMBER:
E-9

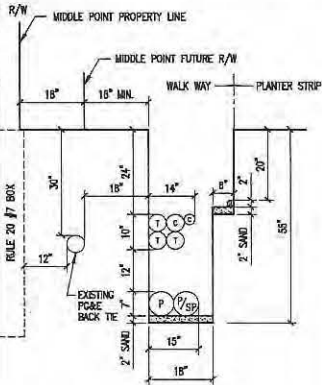
DATE PLOTTED: 12/12/11 10:58 AM. PLOTTER: HP DesignJet T1100. PLOTTING: 11/12/11 10:58 AM. PLOTTER: HP DesignJet T1100.

NOTE:
DISTRIBUTION FACILITIES OCCUR
UNDER THIS TRENCH SECTION
FOR ONLY A PORTION OF THIS
LENGTH, AT THE WEST END.



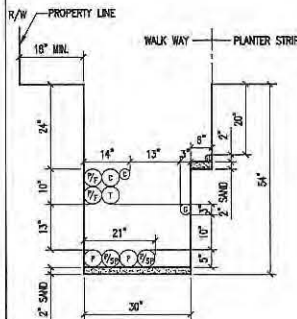
36 JOINT TRENCH DETAIL

N.T.S



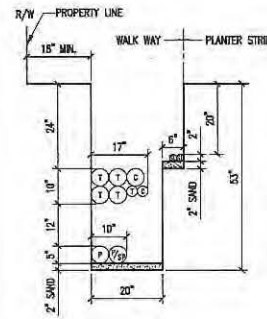
37 JOINT TRENCH DETAIL

N.T.S



38 JOINT TRENCH DETAIL

N.T.S



39 JOINT TRENCH DETAIL

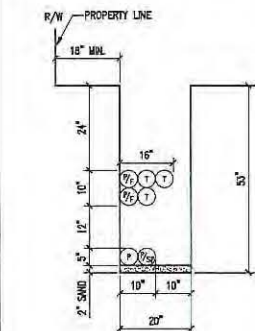
N.T.S

GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6\"/>
- 4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- 5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
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- 7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- 8. REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- 9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

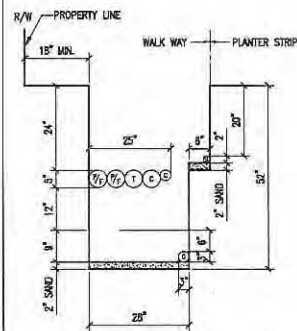
LEGEND:

- P = PRIMARY CONDUIT 4\"/>
- P/SP = PRIMARY SPARE CONDUIT 4\"/>
- S = SECONDARY CONDUIT 3\"/>
- S/SP = SECONDARY SPARE CONDUIT 3\"/>
- SL = STREET LIGHT CONDUIT 1.5\"/>
- T = AT&T CONDUIT 4\"/>
- C = COMCAST CONDUIT 4\"/>
- P/F = POLICE AND FIRE (UTIS) CONDUIT 4\"/>
- G = GAS CONDUIT 4\"/>



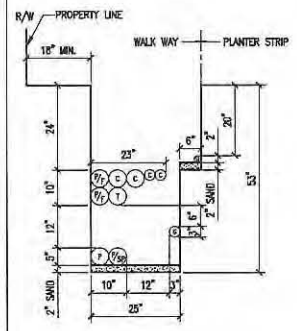
40 JOINT TRENCH DETAIL

N.T.S



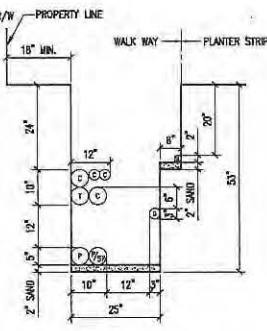
41 JOINT TRENCH DETAIL

N.T.S



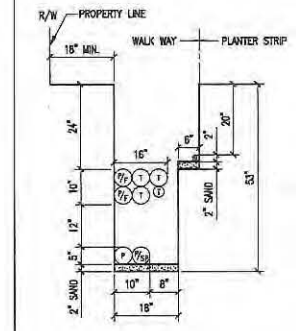
42 JOINT TRENCH DETAIL

N.T.S



43 JOINT TRENCH DETAIL

N.T.S



44 JOINT TRENCH DETAIL

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

NBA
ENGINEERING, INC.
San Francisco - Oakland - Walnut Creek - San Jose
897 N. WILSON AVENUE, SAN JOSE, CALIF. 95128
TEL: (415) 202-1840
FAX: (415) 202-9338

DRAWN BY: N.T.S.
DATE:
CHECKED BY:
DATE:

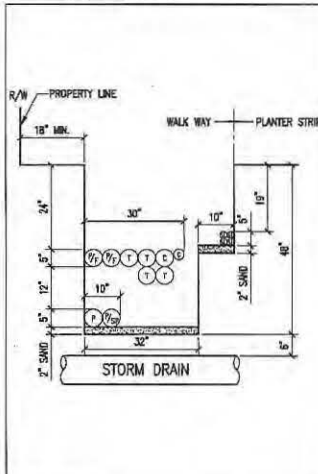


HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

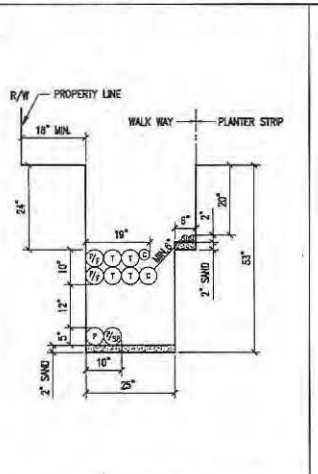
DATE: SEPT 09, 2011
JOB NO.: 2007030A1
DRAWING NUMBER:
E-10

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Plot Date: 09/09/2011 10:51 AM

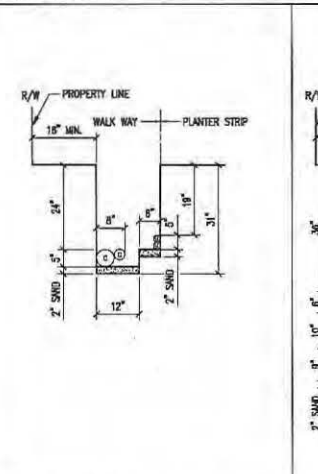
12/12/11 12:12 PM BY: HUNTERS VIEW ENGINEERING INC. (A) (S) (E) (C) (D) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MM) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NN) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)



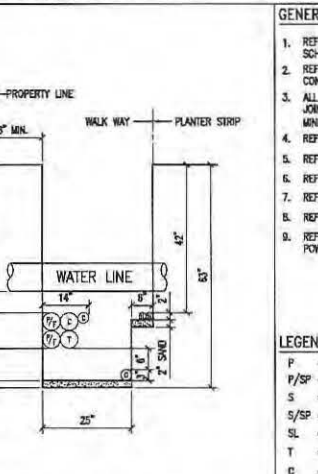
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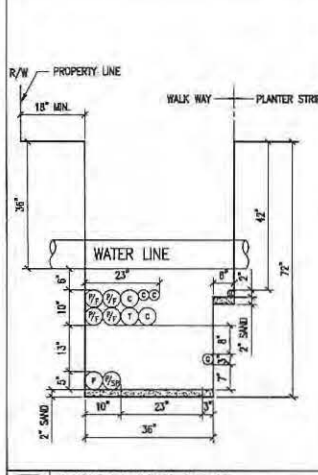
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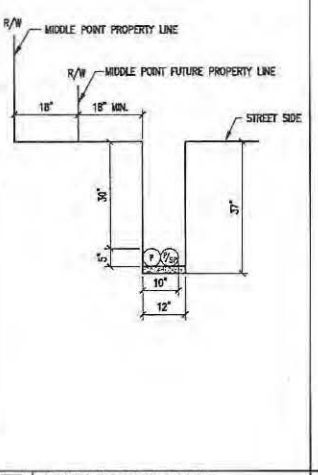
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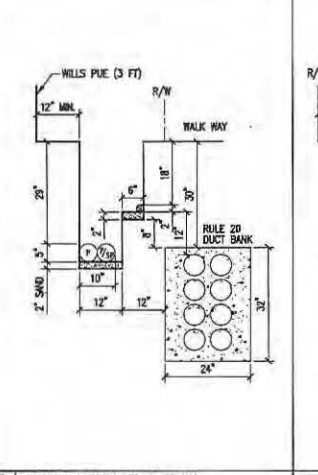
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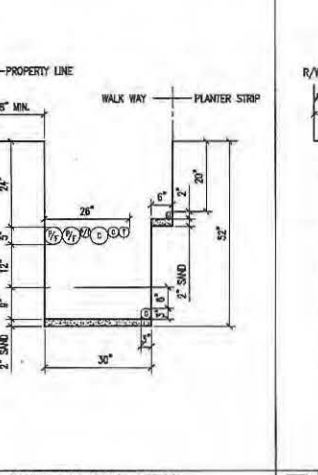
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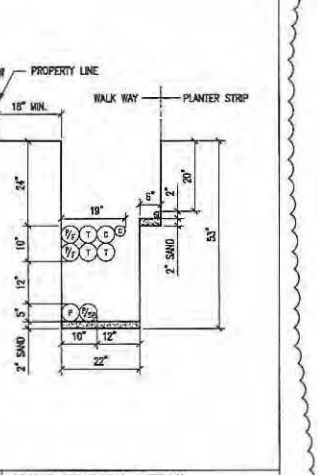
59 JOINT TRENCH DETAIL N.T.S.



60 JOINT TRENCH DETAIL N.T.S.



61 JOINT TRENCH DETAIL N.T.S.



62 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

- F = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 5"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

DESIGNED BY: HUNTERS VIEW ENGINEERING INC.

CHECKED BY: HUNTERS VIEW ENGINEERING INC.

DATE: SEPT 09, 2011

JOB NO.: 2007030.A1

DRAWING NUMBER: E-12

ENGINEERING INC.

San Francisco - Oakland - Orange County

San Jose - San Francisco, CA 94107

TEL: (415) 292-8400

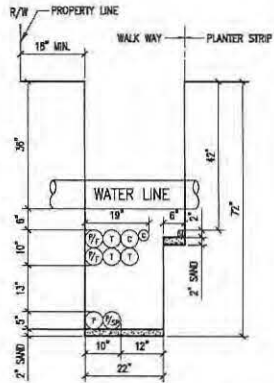
FAX: (415) 292-8400

HUNTERS VIEW ENGINEERING INC.

1000 CALIFORNIA STREET

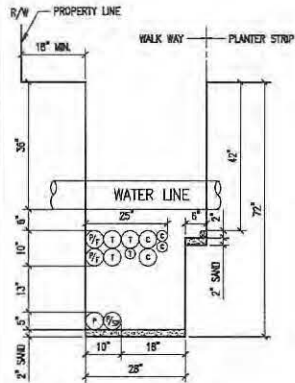
SAN FRANCISCO, CALIFORNIA

STREET LIGHT & COMMON AREA JOINT TRENCH DETAILS



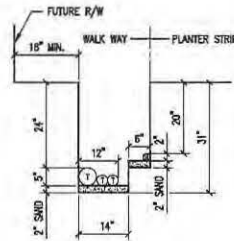
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N.T.S



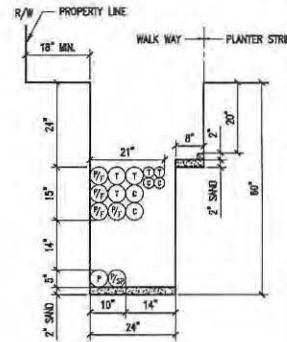
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N.T.S



65 JOINT TRENCH DETAIL

N.T.S



66 JOINT TRENCH DETAIL

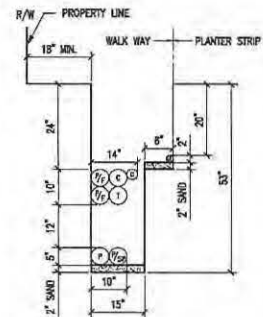
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GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
4. REFER TO E-16 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR BTS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

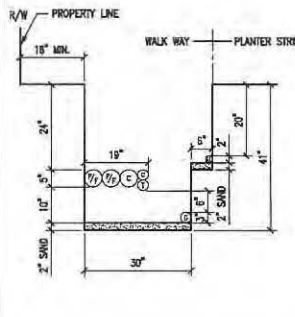
LEGEND:

- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (BTS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



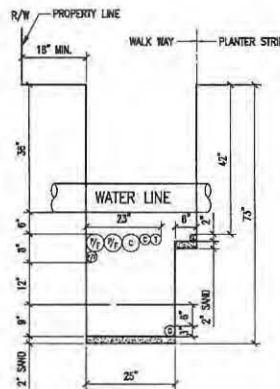
67 JOINT TRENCH DETAIL

N.T.S



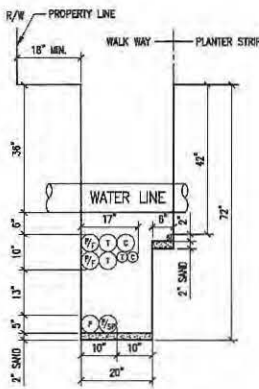
68 JOINT TRENCH DETAIL

N.T.S



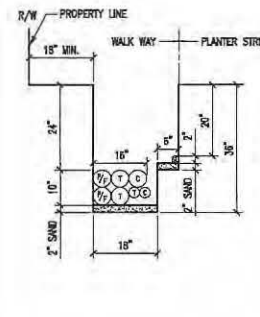
69 JOINT TRENCH DETAIL

N.T.S



70 JOINT TRENCH DETAIL

N.T.S



71 JOINT TRENCH DETAIL

N.T.S

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11		

NBA
ENGINEERING INC.
300 Piedmont - Oakland - Alameda County
1000 Broadway - San Francisco, CA 94103
TEL: (415) 202-8846
FAX: (415) 202-8848

DESIGNED BY: _____
FOR: _____
DATE: _____
CHECKED BY: _____
DATE: _____

DESIGNED BY: _____
FOR: _____
DATE: _____
CHECKED BY: _____
DATE: _____

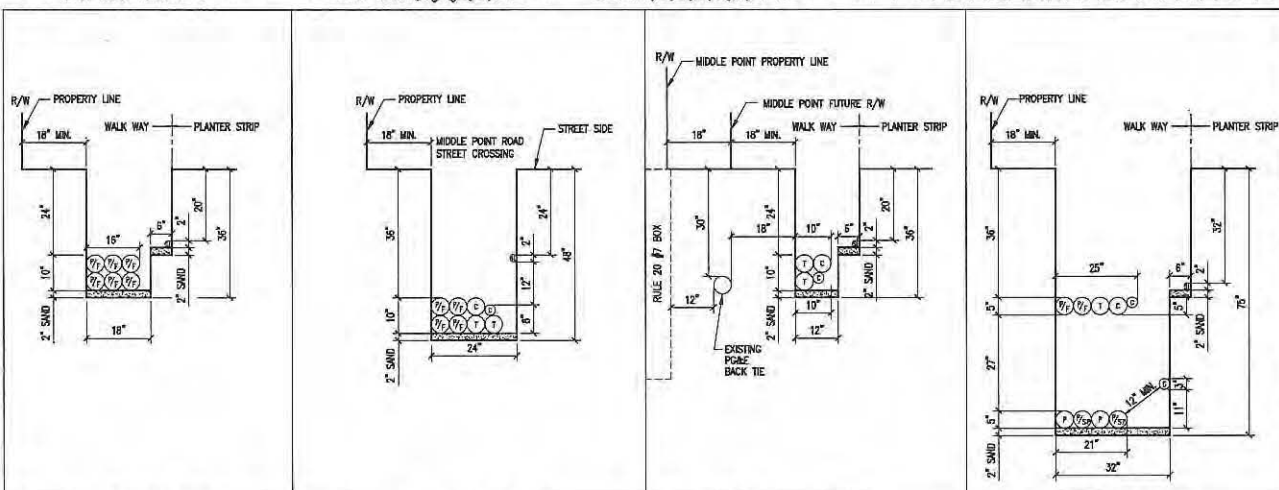
HUNTERS VIEW
1400 WILLOW BLVD
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
JOB NO.: 2007030.A1
DRAWING NUMBER:

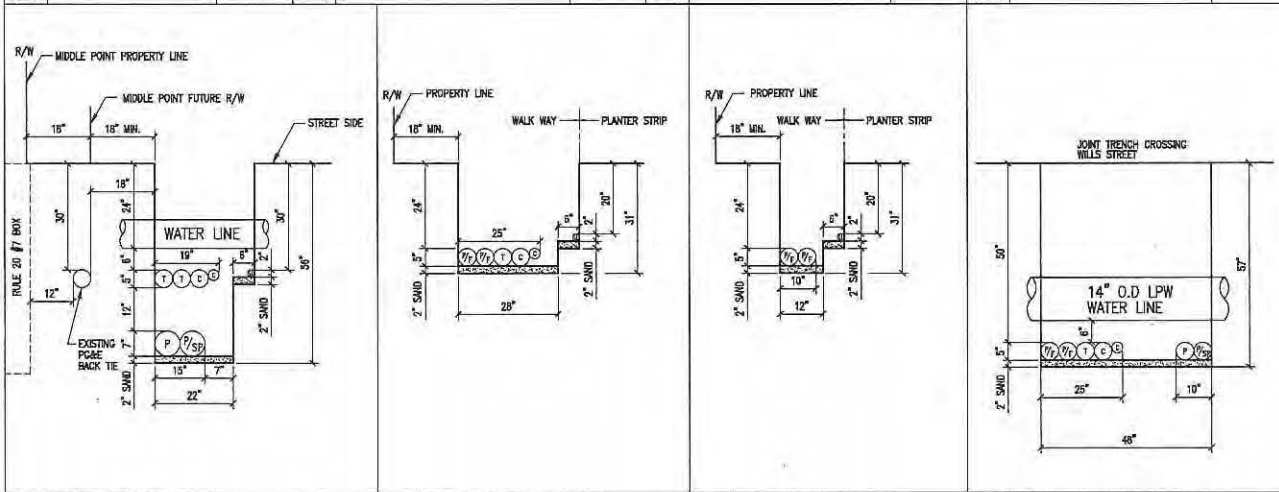
E-13

1400 HUNTERS VIEW, 1400 WILLOW BLVD, SAN FRANCISCO, CALIFORNIA 94103. HUNTERS VIEW IS A TRADEMARK OF HUNTERS VIEW ENGINEERING, INC. © 2011

10/16/11 10:48 AM P:\104\10430\Drawings\10430-0101\10430-0101.dwg
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 Plot Date: 10/16/11 10:48 AM



72 JOINT TRENCH DETAIL N.T.S.
 73 JOINT TRENCH DETAIL N.T.S.
 74 JOINT TRENCH DETAIL N.T.S.
 75 JOINT TRENCH DETAIL N.T.S.



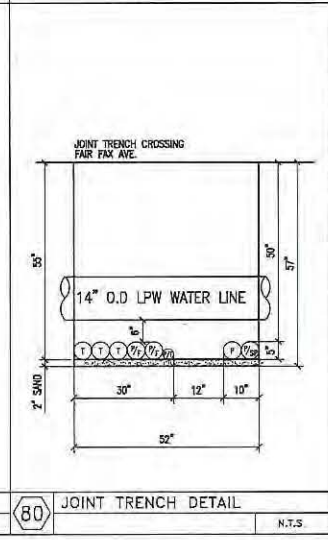
76 JOINT TRENCH DETAIL N.T.S.
 77 JOINT TRENCH DETAIL N.T.S.
 78 JOINT TRENCH DETAIL N.T.S.
 79 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

P = PRIMARY CONDUIT 4" OR 6"
 P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
 S = SECONDARY CONDUIT 3"
 S/SP = SECONDARY SPARE CONDUIT 3"
 SL = STREET LIGHT CONDUIT 1.5"
 T = AT&T CONDUIT 4" OR 2"
 C = COMCAST CONDUIT 4" OR 2"
 P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
 G = GAS CONDUIT 4" OR 2"



80 JOINT TRENCH DETAIL N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	REV	



HUNTERS VIEW
 PHASE II DEVELOPMENT
 SAN FRANCISCO, CALIFORNIA

JOINT TRENCH DETAILS

DESIGNED BY: J.S.M.

CHECKED BY:

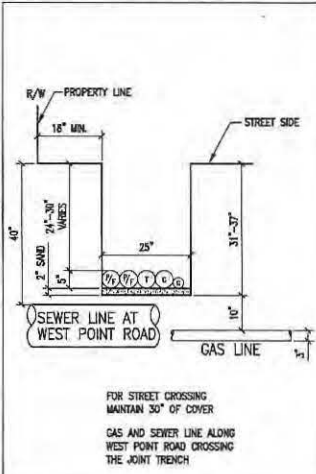
DRAWN BY: D.Y.

DATE:

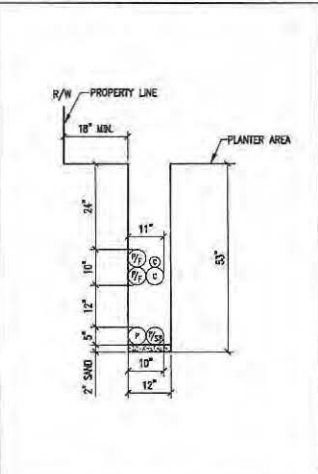
DATE: SEPT 09, 2011

JOB NO.: 2007030.A1

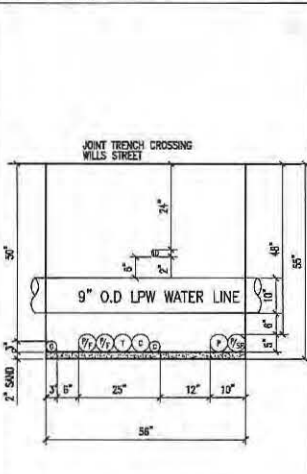
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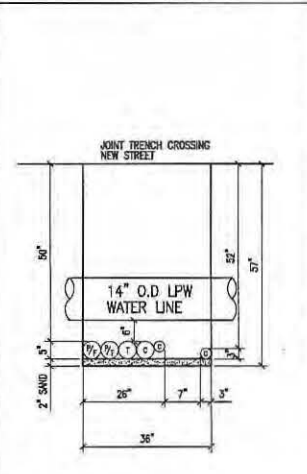
81 JOINT TRENCH DETAIL N.T.S



82 JOINT TRENCH DETAIL N.T.S



83 JOINT TRENCH DETAIL N.T.S



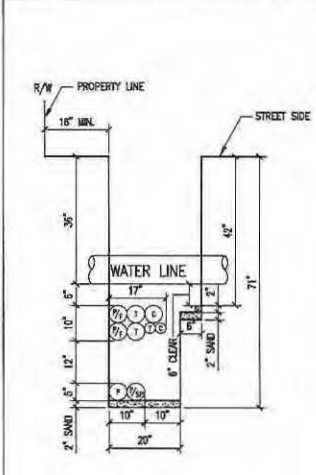
84 JOINT TRENCH DETAIL N.T.S

GENERAL NOTES:

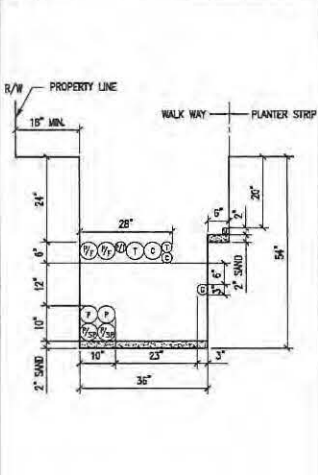
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DITS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PAGE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

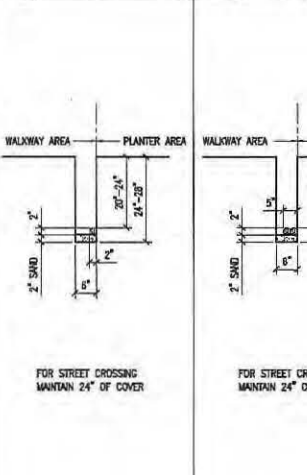
P = PRIMARY CONDUIT 4" OR 6"
P/SP = PRIMARY SPARE CONDUIT 4" OR 5"
S = SECONDARY CONDUIT 3"
S/SP = SECONDARY SPARE CONDUIT 3"
SL = STREET LIGHT CONDUIT 1.5"
T = AT&T CONDUIT 4" OR 2"
C = COMCAST CONDUIT 4" OR 2"
P/F = POLICE AND FIRE (DITS) CONDUIT 4"
G = GAS CONDUIT 4" OR 2"



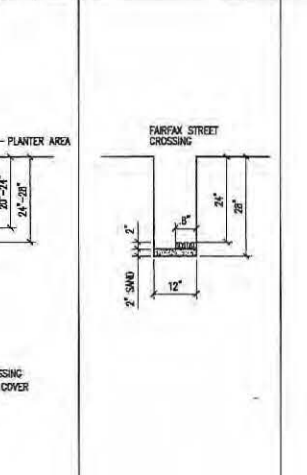
85 JOINT TRENCH DETAIL N.T.S



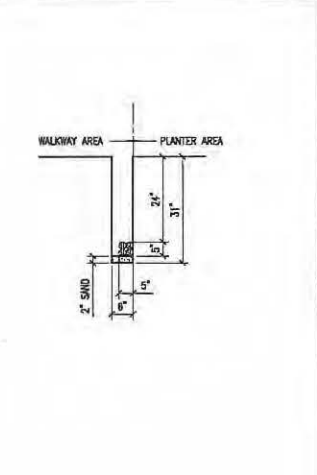
86 JOINT TRENCH DETAIL N.T.S



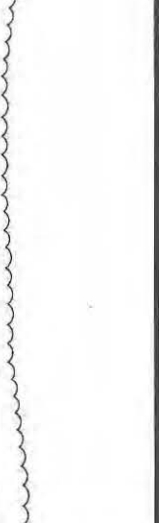
87 JOINT TRENCH DETAIL N.T.S



88 JOINT TRENCH DETAIL N.T.S



89 JOINT TRENCH DETAIL N.T.S



90 JOINT TRENCH DETAIL N.T.S

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	REV	

NBA ENGINEERING, INC.
 566 Divisadero - Suite 100 - Emeryville, CA 94608
 1000 Broadway - Suite 100 - San Francisco, CA 94108
 TEL: (415) 202-5838

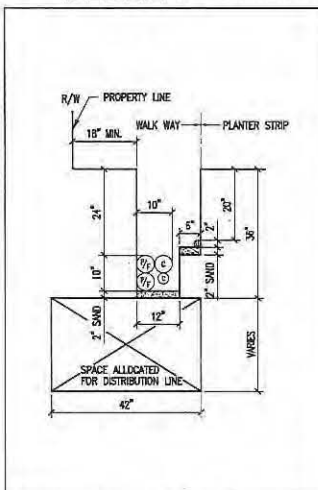
DATE: SEPT 09, 2011
 JOB NO.: 20070330.A1
 DRAWING NUMBER: E-15

HUNTERS VIEW
 PHASE 1A
 METRO CASTLE
 SAN FRANCISCO, CALIFORNIA

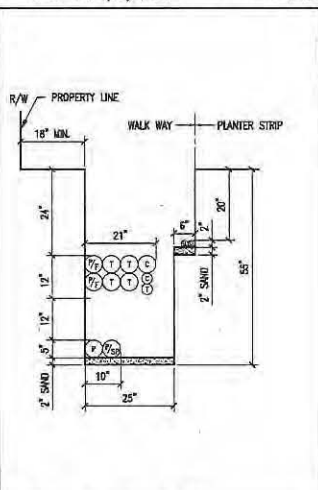
JOINT TRENCH DETAILS

DESIGNED BY: FGH
 CHECKED BY: A.T.
 DATE: _____

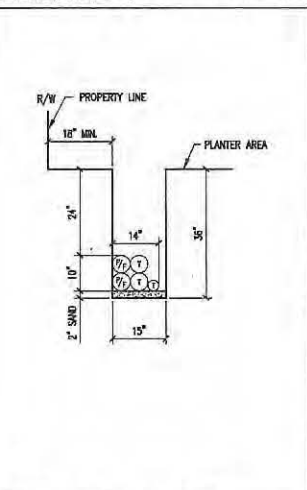
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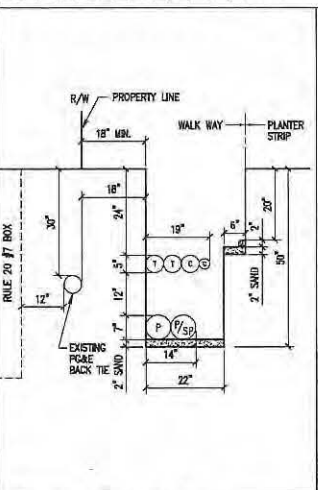
91 JOINT TRENCH DETAIL
N.T.S.



92 JOINT TRENCH DETAIL
N.T.S.



93 JOINT TRENCH DETAIL
N.T.S.



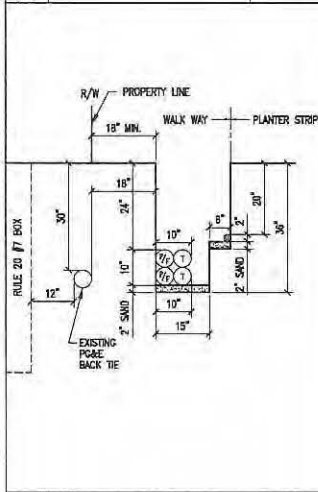
94 JOINT TRENCH DETAIL
N.T.S.

GENERAL NOTES:

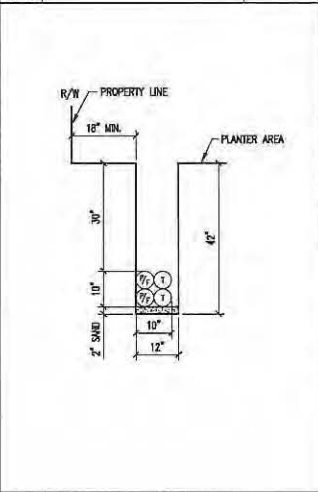
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

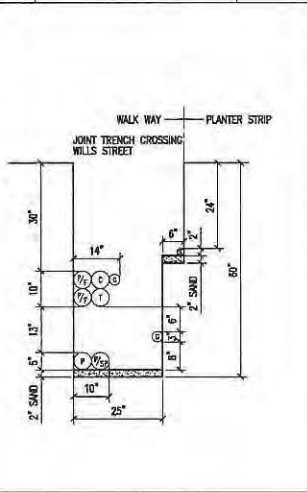
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



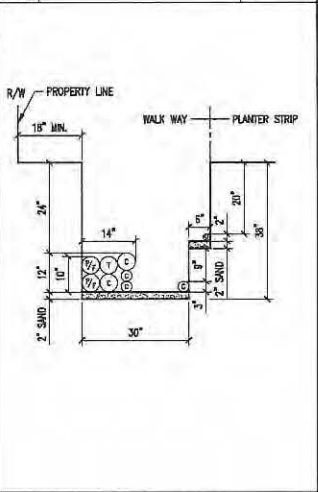
95 JOINT TRENCH DETAIL
N.T.S.



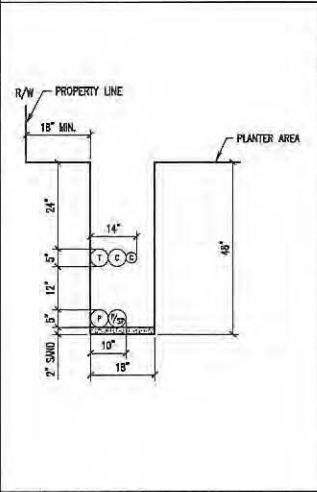
96 JOINT TRENCH DETAIL
N.T.S.



97 JOINT TRENCH DETAIL
N.T.S.



98 JOINT TRENCH DETAIL
N.T.S.



99 JOINT TRENCH DETAIL
N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	69	

HUNTERS VIEW ENGINEERING INC.
 1515 CALIFORNIA STREET, SUITE 200
 SAN FRANCISCO, CALIFORNIA 94109
 TEL: (415) 202-8846
 FAX: (415) 202-8848

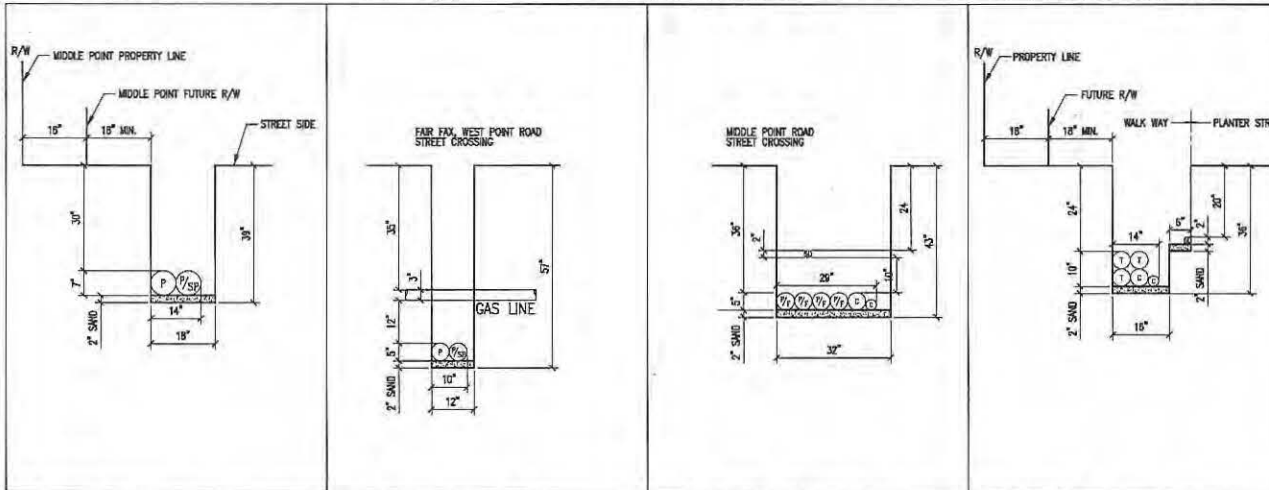
DRAWN BY: A.T.	DATE:
DESIGNED BY: L.S.P.	CHECKED BY:

JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
JOB NO.: 20110301.A1
DRAWING NUMBER: E-16

Copyright © Hunter View Engineering Inc.

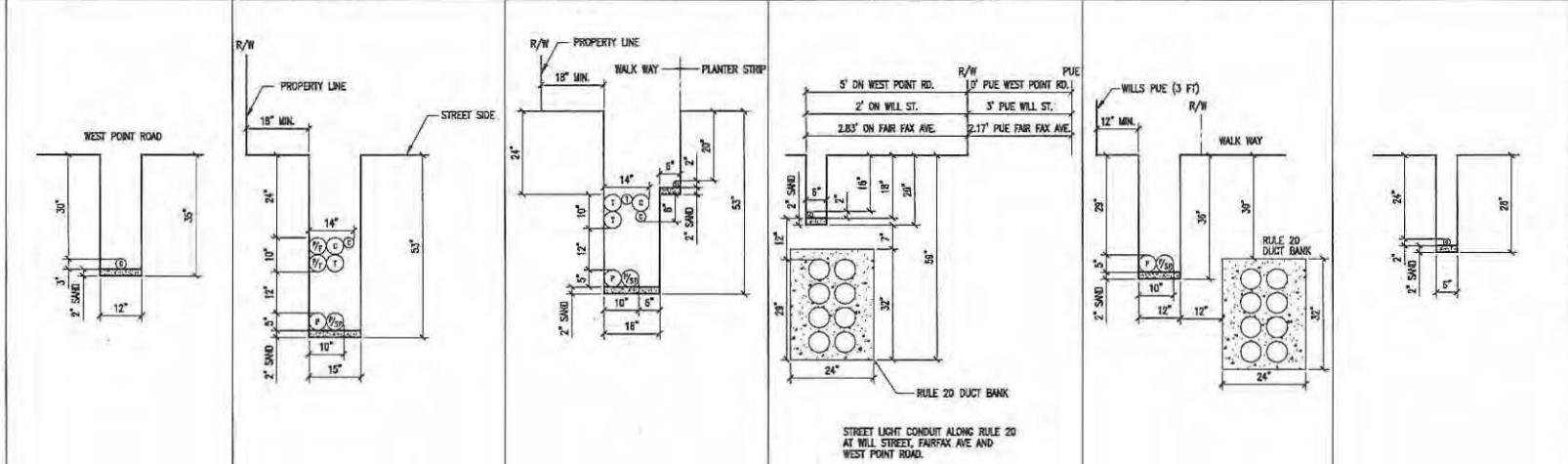
HUNTERS VIEW PROJECT: 20070300.A1 (SHEET 1) - 11/11/09
 20070300.A1 (SHEET 1) - 11/11/09



100 JOINT TRENCH DETAIL N.T.S. |
 101 JOINT TRENCH DETAIL N.T.S. |
 102 JOINT TRENCH DETAIL N.T.S. |
 103 JOINT TRENCH DETAIL N.T.S.

- GENERAL NOTES:**
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
 - REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
 - ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 1" BELOW THE WATER LINE.
 - REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
 - REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
 - REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
 - REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
 - REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
 - REFER TO GRADE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

- LEGEND:**
- P = PRIMARY CONDUIT 4" OR 6"
 - P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
 - S = SECONDARY CONDUIT 3"
 - S/SP = SECONDARY SPARE CONDUIT 3"
 - SL = STREET LIGHT CONDUIT 1.5"
 - T = AT&T CONDUIT 4" OR 2"
 - C = COMCAST CONDUIT 4" OR 2"
 - P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
 - G = GAS CONDUIT 4" OR 2"



104 JOINT TRENCH DETAIL N.T.S. |
 105 JOINT TRENCH DETAIL N.T.S. |
 106 JOINT TRENCH DETAIL N.T.S. |
 107 JOINT TRENCH DETAIL N.T.S. |
 108 JOINT TRENCH DETAIL N.T.S. |
 109 JOINT TRENCH DETAIL N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

NBA ENGINEERING, INC.
 San Francisco - Oakland - Orem - Ogden
 SAN FRANCISCO, CA 94107
 TEL: (415) 295-8800
 FAX: (415) 295-8800

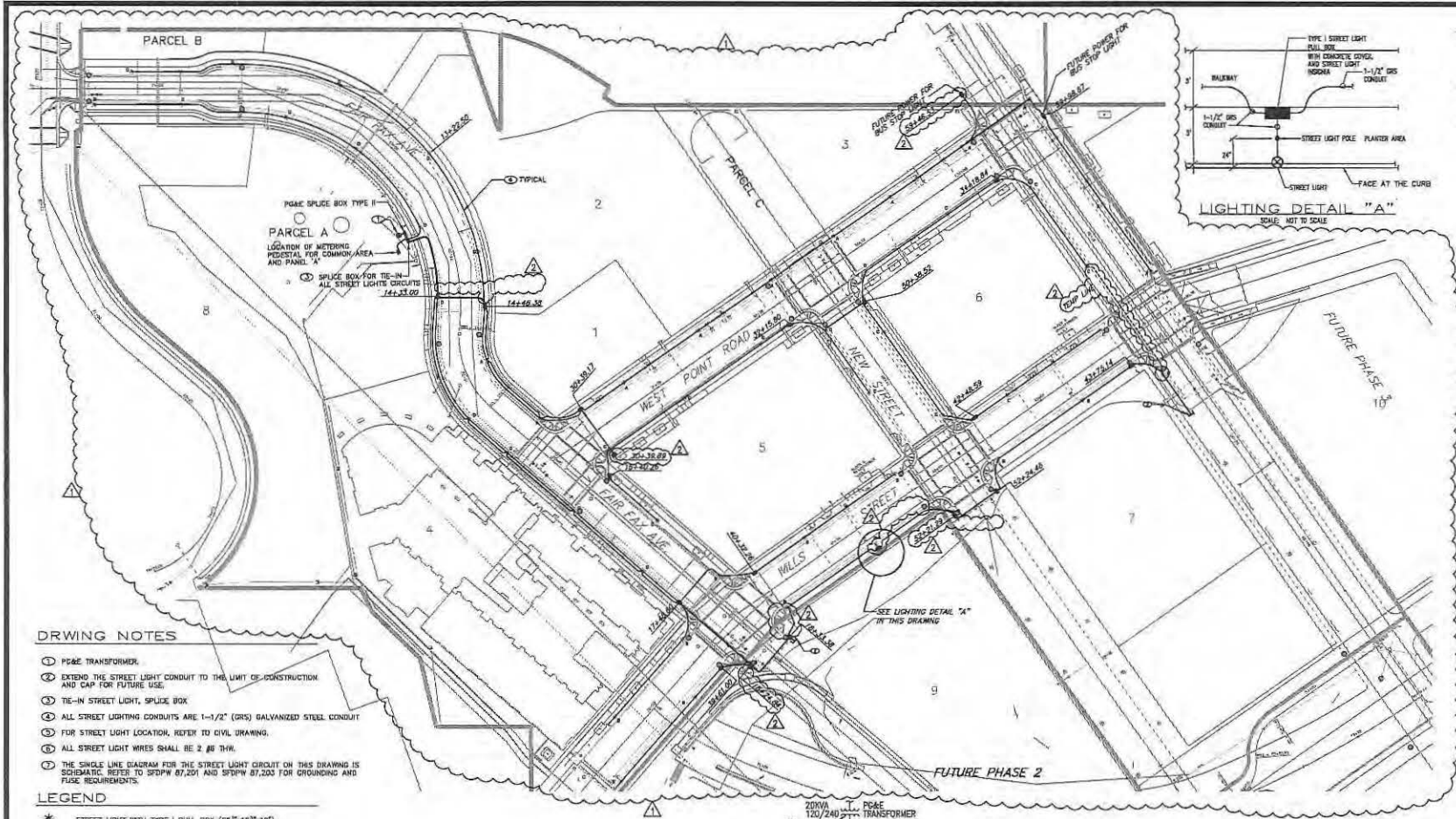
DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

DRAWN BY: A.T.
 DATE:

**HUNTERS VIEW
 PHASE II
 SAN FRANCISCO, CALIFORNIA**

JOINT TRENCH DETAILS

DATE: SEPT 08, 2011
 JOB NO.: 20070300.A1
 DRAWING NUMBER: E-17

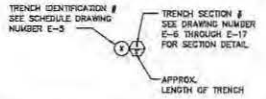


DRAWING NOTES

- ① P&E TRANSFORMER.
- ② EXTEND THE STREET LIGHT CONDUIT TO THE LIMIT OF CONSTRUCTION AND CAP FOR FUTURE USE.
- ③ TIE-IN STREET LIGHT, SPLICE BOX
- ④ ALL STREET LIGHTING CONDUITS ARE 1-1/2" (GRS) GALVANIZED STEEL CONDUIT
- ⑤ FOR STREET LIGHT LOCATION, REFER TO CIVIL DRAWING.
- ⑥ ALL STREET LIGHT WIRES SHALL BE 2 #8 THW.
- ⑦ THE SINGLE LINE DIAGRAM FOR THE STREET LIGHT CIRCUIT ON THIS DRAWING IS SCHEMATIC. REFER TO SDDPW 87,201 AND SDDPW 87,203 FOR GROUNDING AND FUSE REQUIREMENTS.

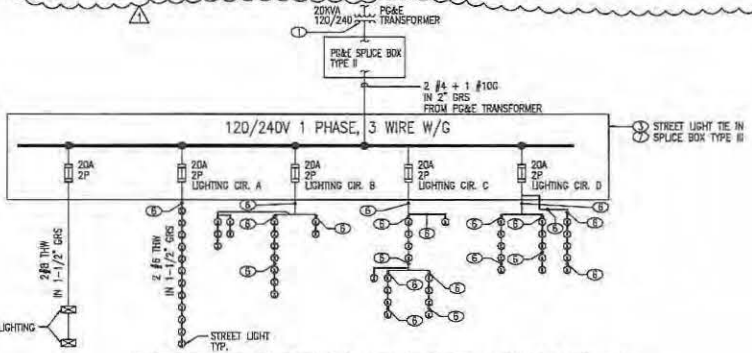
LEGEND

- * STREET LIGHT WITH TYPE I PULL BOX (25"x12"x12")
- P&E TRANSFORMER
- ELECTRICAL PULL BOX TYPE II (30"x 22"x 22")
- STREET LIGHT BOX TYPE I (25"x12"x12")
- ⊞ P&E SPLICE BOX TYPE II (30" x 17" x 20")

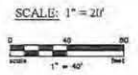
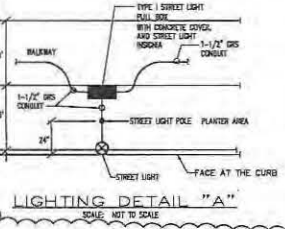


STREET LIGHT GENERAL NOTES

1. STREET LIGHT POLES SHALL BE CENTERED 24" FROM FACE OF CURB.
2. STREET LIGHTS BASED ON BOE/DPW STANDARD PLAN 87,212
3. PULL BOXES ARE REQUIRED ON BOTH SIDES OF EACH STREET CROSSING.
4. PULL BOXES SHALL BE PRECAST AND FOR BOE/DPW STANDARD PLAN 87,201
5. ELECTRICAL INFO SHOWN ON THIS PLAN IS FOR BIDDING PURPOSE ONLY. REFER TO DRAWING E3 FOR CONDUIT SCHEDULE.



SINGLE LINE DIAGRAM FOR STREET LIGHT CIRCUIT
N.T.S.



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISE	
2	7-2011	AR-IMET	

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA

ELECTRICAL LIGHTING CONDUIT LAYOUT

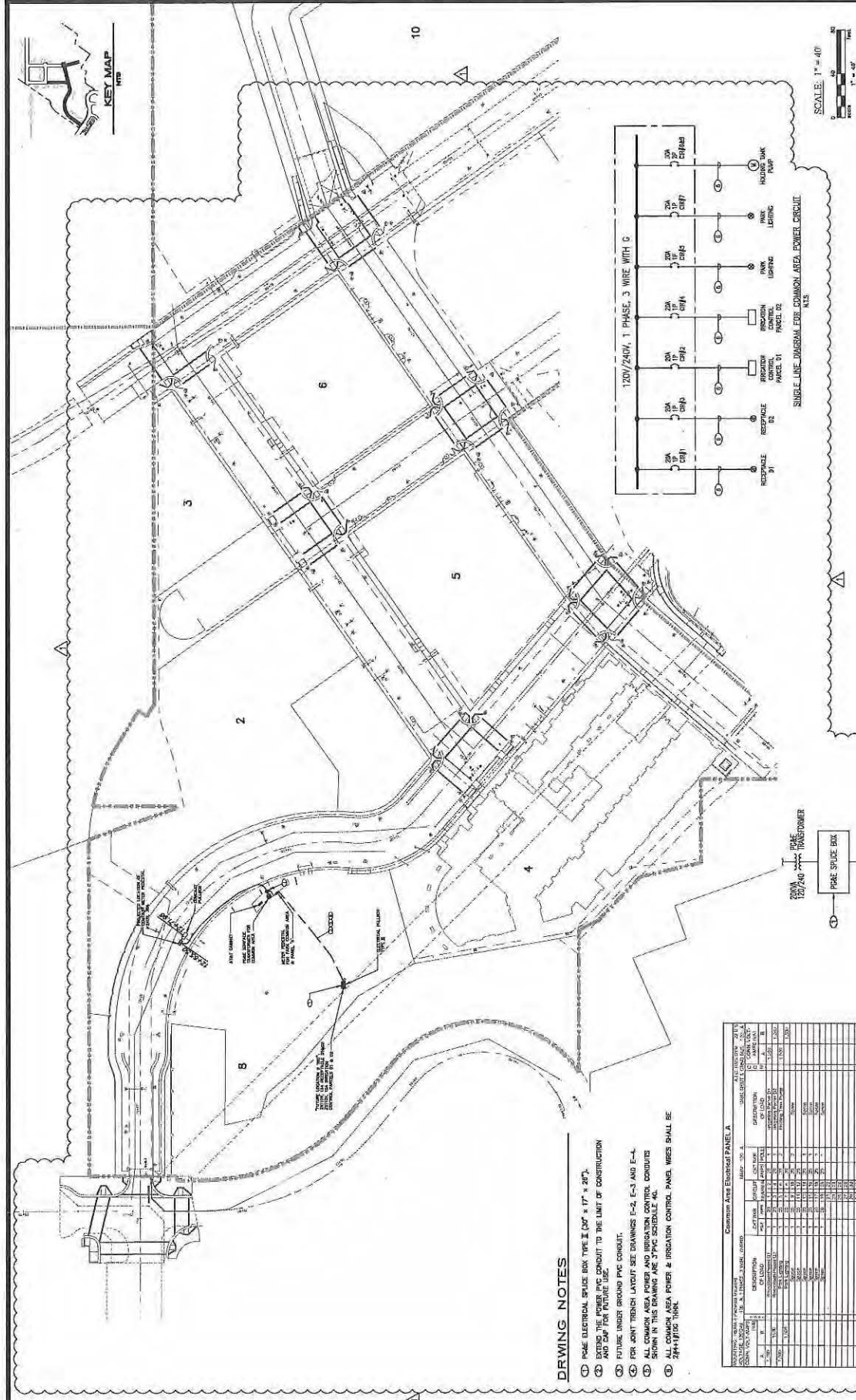
DESIGNED BY: JRM
CHECKED BY: [Signature]

DRAWN BY: A.T.
DATE: [Blank]

NO. DATE REVISION APPR.

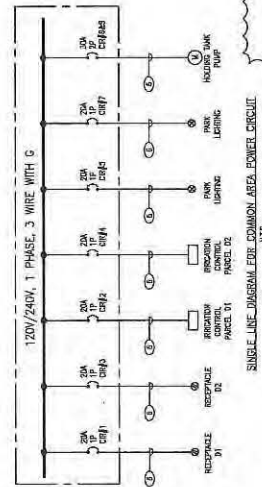
DATE: SEPT 09, 2011
JOB NO.: 2007030-A1
DRAWING NUMBER: E-18

11/2008 (REV) ALL RIGHTS RESERVED. HUNTERS VIEW PHASE 1 INFRASTRUCTURE. ELECTRICAL LIGHTING CONDUIT LAYOUT.

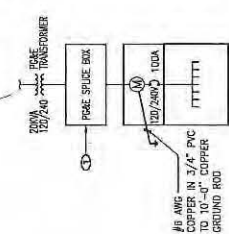


REVISIONS

NO.	DATE	REVISION	APPR.
1	12-15-11		



SCALE: 1" = 40'



#8 AWG COPPER IN 3/4" PVC TO 100A COPPER GROUND ROD
 METERS & COMMON AREA USAGE ELECTRICAL PANEL "A"
 NEW 4 PEDIestal MOUNTED

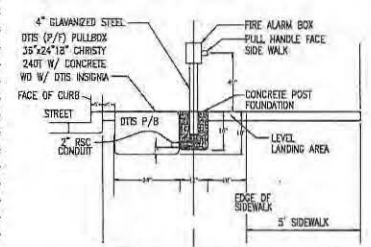
- DRAWING NOTES**
1. POLE ELECTRICAL SLIDE BOX TYPE II (CAF) 17" x 20".
 2. EXTEND THE POWER PVC CONDUIT TO THE LIMIT OF CONSTRUCTION AND CAP FOR FUTURE USE.
 3. FUTURE UNDER GROUND PVC CONDUIT.
 4. FOR JOINT TRENCH LAYOUT SEE DRAWINGS E-2, E-3 AND E-4.
 5. ALL COMMON AREA POWER AND IRRIGATION CONTROL CONDUITS SHOWN IN THIS DRAWING ARE 3" PVC SCHEDULE 40.
 6. ALL COMMON AREA POWER & IRRIGATION CONTROL PANELS SHALL BE 30" x 48" x 18" TYP.

Common Area Electrical Panel A

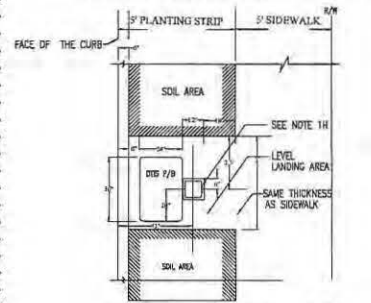
NO.	DESCRIPTION	AMPERES	VOLTS	PHASES	WIRING	TERMINALS	REMARKS
1	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
2	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
3	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
4	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
5	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
6	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
7	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
8	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
9	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
10	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
11	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
12	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
13	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
14	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
15	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
16	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
17	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
18	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
19	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
20	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
21	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
22	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
23	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
24	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
25	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
26	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
27	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
28	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
29	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
30	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
31	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
32	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
33	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
34	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
35	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
36	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
37	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
38	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
39	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
40	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
41	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
42	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
43	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
44	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
45	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
46	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
47	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
48	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
49	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	
50	120V/240V 1PHASE 3WIRE WITH G	100	120/240	3	3	3	



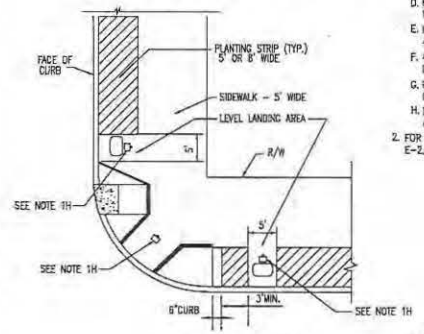
DTIS WILL PROVIDE THE 4-INCH GALVANIZED PIPE AT CONTRACTORS EXPENSE AND CONTRACTORS SHALL INSTALL THE PIPE. DTIS SHALL SUPPLY AND INSTALL THE FIRE ALARM BOX AT CONTRACTORS EXPENSE. THE FEES MUST BE PAID IN ADVANCE BY DTIS PROVIDING THE 4-INCH GALVANIZED PIPE FOR THE STAND AND SETTING THE ALARM BOX.



DTIS PULL STATION - ELEVATION
SCALE: N.T.S. (FOR 5' PLANTING STRIP)



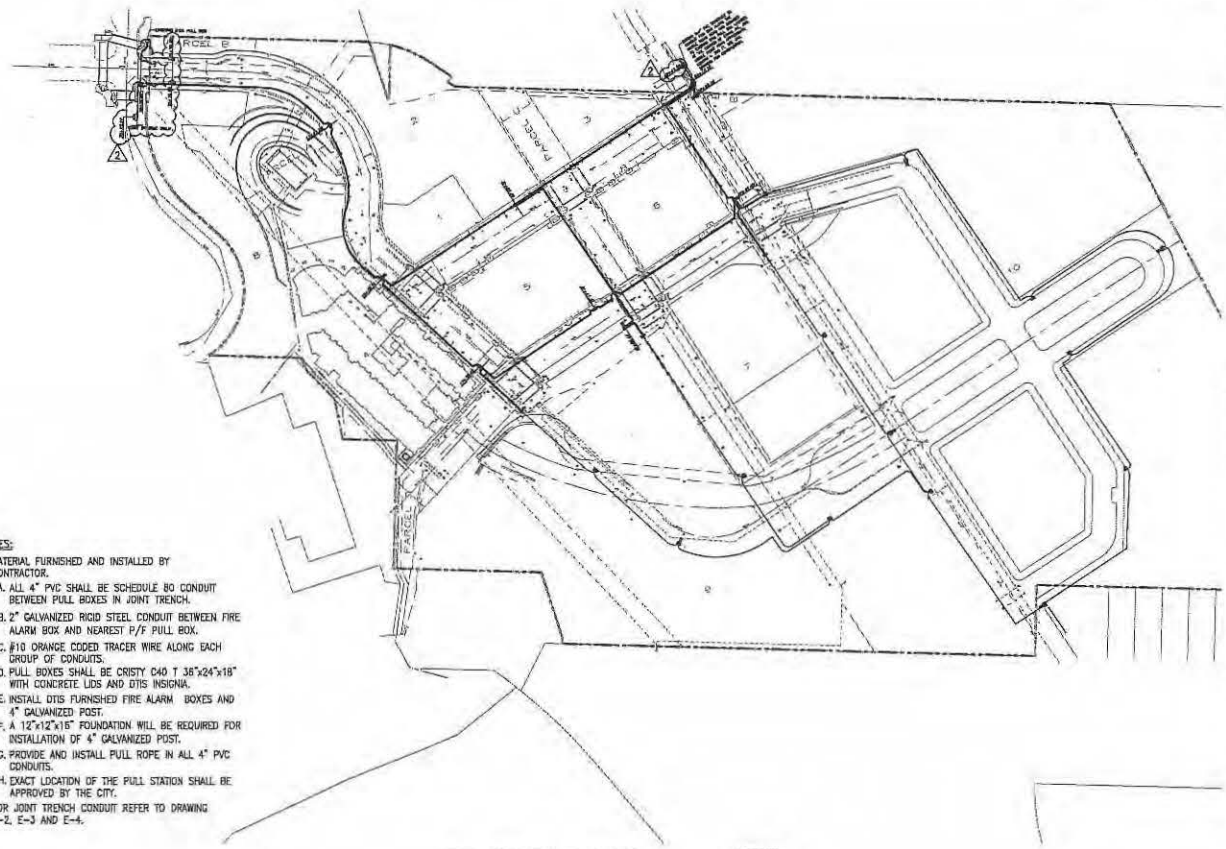
DTIS PULL STATION - PLAN
SCALE: N.T.S. (FOR 5' PLANTING STRIP)



DTIS PULL STATION ADJACENT TO CURB RAMPS
SCALE: N.T.S. (TYP. NEXT TO EITHER TYPE OF C.R.)

NOTES:

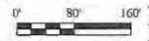
1. MATERIAL FURNISHED AND INSTALLED BY CONTRACTOR.
 - A. ALL 4" PVC SHALL BE SCHEDULE 80 CONDUIT BETWEEN PULL BOXES IN JOINT TRENCH.
 - B. 2" GALVANIZED RIGID STEEL CONDUIT BETWEEN FIRE ALARM BOX AND NEAREST P/F PULL BOX.
 - C. #10 ORANGE CODED TRACER WIRE ALONG EACH GROUP OF CONDUITS.
 - D. PULL BOXES SHALL BE CRISTY C40 T 36"x24"x18" WITH CONCRETE LIDS AND DTIS INSIGNA.
 - E. INSTALL DTIS FURNISHED FIRE ALARM BOXES AND 4" GALVANIZED POST.
 - F. A 12"x12"x15" FOUNDATION WILL BE REQUIRED FOR INSTALLATION OF 4" GALVANIZED POST.
 - G. PROVIDE AND INSTALL PULL ROPE IN ALL 4" PVC CONDUITS.
 - H. EXACT LOCATION OF THE PULL STATION SHALL BE APPROVED BY THE CITY.
2. FOR JOINT TRENCH CONDUIT REFER TO DRAWING E-2, E-3 AND E-4.



DTIS CONDUIT LAYOUT
SCALE: 1"=60'

LEGEND

- 36" x 24" x 18" PULL BOX WITH SEALED BOTTOM CONCRETE REINFORCED SLAB AND POLICE & FIRE PULL STATION (SEE DETAIL THIS DRAWING)
- 36" x 24" x 18" PULL BOX WITH SEALED BOTTOM CONCRETE REINFORCED SLAB
- 2 X 4" PVC SCHEDULE 80 FUTURE
- 2 X 4" PVC SCHEDULE 80 PHASE A



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	BB	
2	7-2013	AS-BEST	

NBA ENGINEERING, INC.
 600 Mission - Suite 1000 - San Francisco, CA 94105
 TEL: (415) 772-1830
 FAX: (415) 772-1835

DESIGNED BY
FCH

DATE

DESIGNED BY
FCH

DATE

HUNTERS VIEW
 PHASE 1 - CIVIL STRUCTURE
 SAN FRANCISCO, CALIFORNIA

DTIS CONDUIT LAYOUT

DATE
SEPT 09, 2011

JOB NO.
2007030.A1

DRAWING NUMBER
E-20

Bill of Sale

For good and valuable consideration of \$0.00, HV Partners 1, L.P., a California Limited Partnership ("Seller"), does hereby sell, transfer and convey to Comcast Cable Communications, Inc ("Buyer"), title to those portions of the facilities which are the identified as Buyer's facilities on the "as built" drawings attached hereto as Schedule 1 ("Personal Property"), subject to the terms and provisions hereof.

Seller has executed this Bill of Sale and bargained, sold, transferred, conveyed and assigned the Personal Property and Buyer has accepted this Bill of Sale and is purchasing the Personal Property: **AS IS AND WHEREEVER LOCATED, WITH ALL FAULTS AND WITHOUT ANY REPRESENTATIONS OR WARRANTIES OF WHATSOEVER NATURE, EXPRESS, IMPLIED OR STATUTORY, EXCEPT AS EXPRESSLY SET FORTH HEREIN BELOW, IT BEING THE INTENTION OF THE SELLER AND BUYER TO EXPRESSLY NEGATE AND EXCLUDE ALL WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Seller hereby assigns all warranties and guaranties relating to the construction of the Personal Property that were given by the independent contractor hired by Seller to construct the Personal Property. As used herein the term "**Correction Period**" shall mean one (1) year after "**Final Completion**" (as hereinafter defined). Seller shall, to Buyer's reasonable satisfaction, and provided that such work is not the subject of a warranty or guaranty assigned by Seller to Buyer, re-execute or otherwise remedy any defects in the Personal Property due to faulty workmanship that become apparent during the Correction Period. As used herein, the term "**Final Completion**" shall mean May 9, 2017.

Dated this 21st day of June, 2019.

Signatures on following page.

SELLER

HV PARTNERS 1, LP,
a California limited partnership

By: HUNTERS POINT AFFORDABLE HOUSING, INC.,
a California nonprofit public benefit
corporation,
its managing general partner

By: Larry B. Hollingsworth (en)
Larry B. Hollingsworth
President

By: JSCo HUNTERS VIEW LLC,
a California limited liability company,
its co-general partner

By: JOHN STEWART COMPANY,
a California corporation,
its managing member

By: Jack D. Gardner
Jack D. Gardner
President

By: HV AMANI LLC,
a California limited liability company,
its co-general partner

By: DEVINE & GONG, INC.,
a California corporation,
its managing member

By: Chan U Lee
Chan U Lee
President

SCHEDULE 1

As Built Plans entitled:

Hunters View Phase I Joint Trench Plans
Sheets E-1 through E-21

Prepared by: NBA Engineering, Inc.

DRAWING INDEX

E-1	LEGEND, ABBREVIATIONS, DRAWING INDEX, AND GENERAL NOTES
E-2	JOINT TRENCH PLAN
E-3	JOINT TRENCH PLAN
E-4	JOINT TRENCH PLAN
E-5	JOINT TRENCH CONDUIT SCHEDULE
E-6	JOINT TRENCH DETAILS
E-7	JOINT TRENCH DETAILS
E-8	JOINT TRENCH DETAILS
E-9	JOINT TRENCH DETAILS
E-10	JOINT TRENCH DETAILS
E-11	JOINT TRENCH DETAILS
E-12	JOINT TRENCH DETAILS
E-13	JOINT TRENCH DETAILS
E-14	JOINT TRENCH DETAILS
E-15	JOINT TRENCH DETAILS
E-16	JOINT TRENCH DETAILS
E-17	JOINT TRENCH DETAILS
E-18	ELECTRICAL LIGHTING CONDUIT LAYOUT
E-19	COMMON AREA POWER CONDUIT LAYOUT
E-20	DTIS CONDUIT LAYOUT
E-21	COMCAST CONDUIT LAYOUT

ABBREVIATIONS

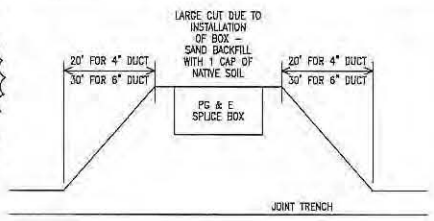
AIC	INTERRUPTING CAPACITY
C	COMCAST CONDUIT 4" OR 2"
CB	CIRCUIT BREAKER
(E)	EXISTING
FBO	FURNISHED BY OTHERS
FV	FUSE: DUAL-ELEMENT, TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND	GROUND
HP	HORSE POWER
IG	ISOLATED GROUND
K	kcmil (300K = 300 kcmil)
KCMIL	THOUSAND CIRCULAR MILL
KV	KILOVOLTS
LTC	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
M	MANHOLE
(N)	NEW
NEUT	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
P/F	POLICE/FIRE CONDUIT (DTIS) 4"
PB	PULL BOX
P	PRIMARY CONDUIT 4", OR 6"
PNL	PANEL
(R)	EXISTING TO BE REMOVED
S	SECONDARY CONDUIT 3"
SP	SPARE
SL	STREET LIGHT CONDUIT 1 1/2" DRS
T	AT&T CONDUIT 4" OR 2"
TBD	TO BE DETERMINED
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDER GROUND
UN	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHER PROOF (NEMA 3R)
XPMR	TRANSFORMER

LEGEND

	SURFACE MOUNT TRANSFORMER 12KV-120/240V, 1PHASE, 3W
	SURFACE MOUNT TRANSFORMER 12KV-120/209V, 3PHASE, 4W
	PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE, TYPE I, 3' x 5' x 4' 6"
	PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE TYPE II, 4'-6" x 6'-6" x 6'-0"
	ELECTRICAL STREET LIGHT TYPE I PULL BOX 25 1/4" x 15 3/4" x 12"
	PG&E TIE IN SPICE BOX TYPE II 30" x 17" x 25"
	TIE-IN STREET LIGHT SPICE BOX TYPE II 33 1/4" x 22 1/4" x 12"x10" EXTENSION
	POLICE AND FIRE ALARM PULL BOX (DTIS - PULLBOX) 36" x 24" x 18" CRISTY CAST WITH CONCRETE COVER AND DTIS INSGNIA
	FIRE ALARM PULLBOX WITH FULL STANCHION
	AT&T PULL BOX
	COMCAST PULL BOX
	GROUND ROD - 3/4", 12' LONG ON PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE
	GROUND ROD - 5/8", 10' LONG ON SECONDARY UNDERGROUND EQUIPMENT ENCLOSURE
	METERING PEDIESTAL
	AT&T SWITCH BOARD MAIN DISTRIBUTION
	INLINE FUSE
	UTILITY CABINET
	PROPOSED TRENCH ROUTE
	EXISTING GAS LINE
	MATCH LINE
T1	17"x30"x26" #/POLYMER COVER
T2	24"x36"x42" #/POLYMER COVER
T3	30"x48"x36" #/POLYMER COVER
T4	30"x60"x36" #/POLYMER COVER
T5	36"x60"x48" WITH STEEL HAND OVER

GENERAL NOTES:

- A. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS AMENDED BY LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ELECTRICAL CODE REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
- B. THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BE FAMILIARIZED WITH THE EXISTING UTILITIES INSTALLATIONS, CONDITIONS, AND SYSTEMS RELATED TO THE SCOPE OF WORK.
- C. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, FEES AND EQUIPMENT SPECIFIED, INDICATED OR IMPLIED IN THESE DOCUMENTS TO ACCOMPLISH THE CONSTRUCTION IN A PROFESSIONAL, WORKMANLIKE MANNER. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION TASKS INDICATED AND LOCAL CODES AND/OR ORDINANCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK AT ISSUE.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED ELECTRICAL PERMITS AND INSPECTIONS.
- E. THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH OTHER DISCIPLINES DRAWINGS RELATED TO THE PROJECT FOR OTHER WORK TO BE PROVIDED.
- F. ANY WORK INSTALLED INCORRECTLY, OR BEFORE APPROVAL HAS BEEN OFFICIALLY GRANTED FOR THOSE ITEMS AT ISSUE, SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO CHARGE TO CLIENT.
- G. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND COMPLETELY SERVICEABLE UNLESS OTHERWISE SPECIFIED.
- H. CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH EXISTING CONDITIONS BEFORE STARTING NEW WORK. VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR TO ROUGHING-IN EQUIPMENT.
- I. FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTION.
- J. ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR CONDUIT ROUTING IN THE JOINT TRENCH TO THE ENGINEER AND GET THE APPROVAL PRIOR TO INSTALLATION.
- K. ALL JOINT TRENCH CONDUIT SHALL COMPLY WITH PG&E GREEN BOOK 2010 STANDARD 55453.
- L. CONTRACTOR SHALL INSTALL 3/4"x12" GROUND RODS IN ALL PRIMARY SUBSURFACE ENCLOSURES AND 5/8"x10" GROUND RODS IN ALL SECONDARY SUBSURFACE ENCLOSURES. THE RESISTANCE AT THE GROUND ROD SHALL MEET ARTICLE 250.56 NEC.
- M. ALL CONDUITS SYSTEMS SHALL BE PROVEN BY USING HANDRELS.
- N. ALL CONDUITS SHALL ENTER AND LEAVE ON THE SIDES OF THE PRIMARY ENCLOSURES.
- O. PRIMARY AND SECONDARY CONCRETE ENCLOSURES SHOULD NOT BE INSTALLED IN ANY DRIVEWAY AREA(S).
- P. WEDGE REDUCERS ARE REQUIRED IF THE CONDUIT KNOCKOUTS ARE 6" AND THE CONDUITS ARE 4".
- D. THE PUE WILL BE SECURED BY OWNER.



SUBSTRUCTURE VERIFICATION

TRENCHING AGENT
 PROPER DEPTH OF TRENCH AND SUBSTRUCTURES ARE IMPERATIVE TO THE DESIGN OF OUR UTILITY DISTRIBUTION SYSTEM.
 IF A VARIANCE IS NECESSARY PLEASE NOTIFY PG&E SO THAT OUR INSPECTOR OR ENGINEERING DEPARTMENT CAN APPROVE AND INITIAL THOSE SECTIONS OF TRENCH AND/OR SUBSTRUCTURES WHICH DO NOT COMPLY WITH THE ORIGINAL DESIGN. THIS MUST BE DONE PRIOR TO INSTALLATION OF ANY SUBSTRUCTURES.
 THE TRENCHING AGENT WILL BE HELD RESPONSIBLE FOR ANY UNAPPROVED DESIGN CHANGES IN TRENCH OR SUBSTRUCTURE DEPTH OR CONFIGURATION.
 THIS DOES NOT SUPERCEDE, BUT IS IN ADDITION TO ANY OF THE NORMAL TRENCH INSPECTIONS YOUR PROJECT MAY REQUIRE.

DESIGN CHANGE COMPONENT
 ANY CHANGES TO THIS DESIGN MUST BE APPROVED BY

MARIO MELENDEZ 1-415-695-3318
 SAN FRANCISCO
 PG&E GAS ADE

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

ENGINEERING, INC.
 San Francisco - Oakland - Alameda County
 SAN FRANCISCO, CALIFORNIA 94107
 TEL: (415) 702-8846
 FAX: (415) 555-9359

DESIGNED BY: F.C.H.

CHECKED BY: [Signature]

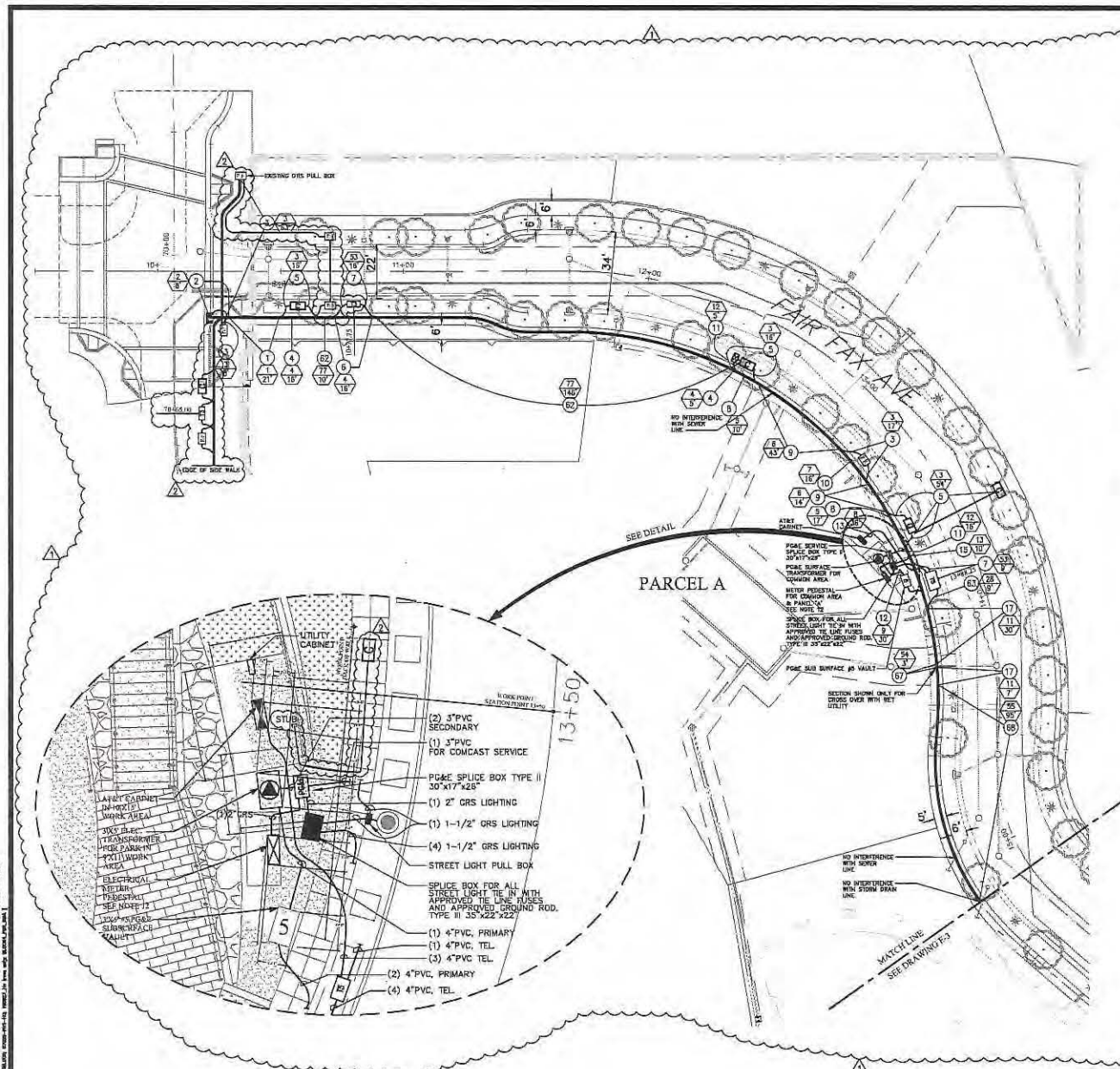
DATE: SEPT 09, 2011

JOB NO.: 2007030.A1

DRAWING NUMBER: E-1

HUNTERS VIEW
 A-TITLE SHEET
 SAN FRANCISCO, CALIFORNIA

DRAWING INDEX, ABBREVIATION AND LEGEND



- NOTES**
1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-6 THROUGH E-17.
 3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWINGS E-5.
 4. FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 5. FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 6. FOR DTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 8. FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 11. FOR METERING PEDESTAL AND PANEL 'A' SEE DRAWING E-13.
 12. ELECTRICAL METER PEDESTAL SHALL BE INSTALLED BY PARK CONTRACTOR AND IS NOT PART OF THIS CONTRACT.
 13. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

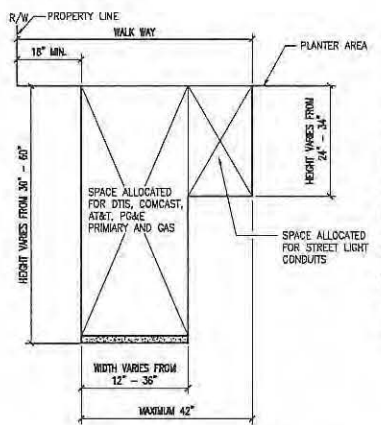


MINIMUM CLEARANCE AND COVER

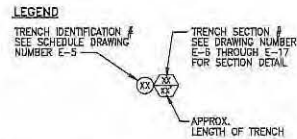
TYPE	DEPTH	COVER	MIN. CLEARANCE	MIN. COVER
ELEC. PRIMARY	1"	12"	12"	12"
ELEC. SECONDARY	1"	12"	12"	12"
COMCAST	12"	12"	12"	12"
TELEPHONE	12"	12"	12"	12"
FIRE/POLICE	12"	12"	12"	12"
GAS	12"	12"	12"	12"

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	36"
4"	36"	54"
5"	48"	72"
6"	60"	90"



JOINT TRENCH CONFIGURATION
SCALE: N.T.S.
SCALE: 1"=20'



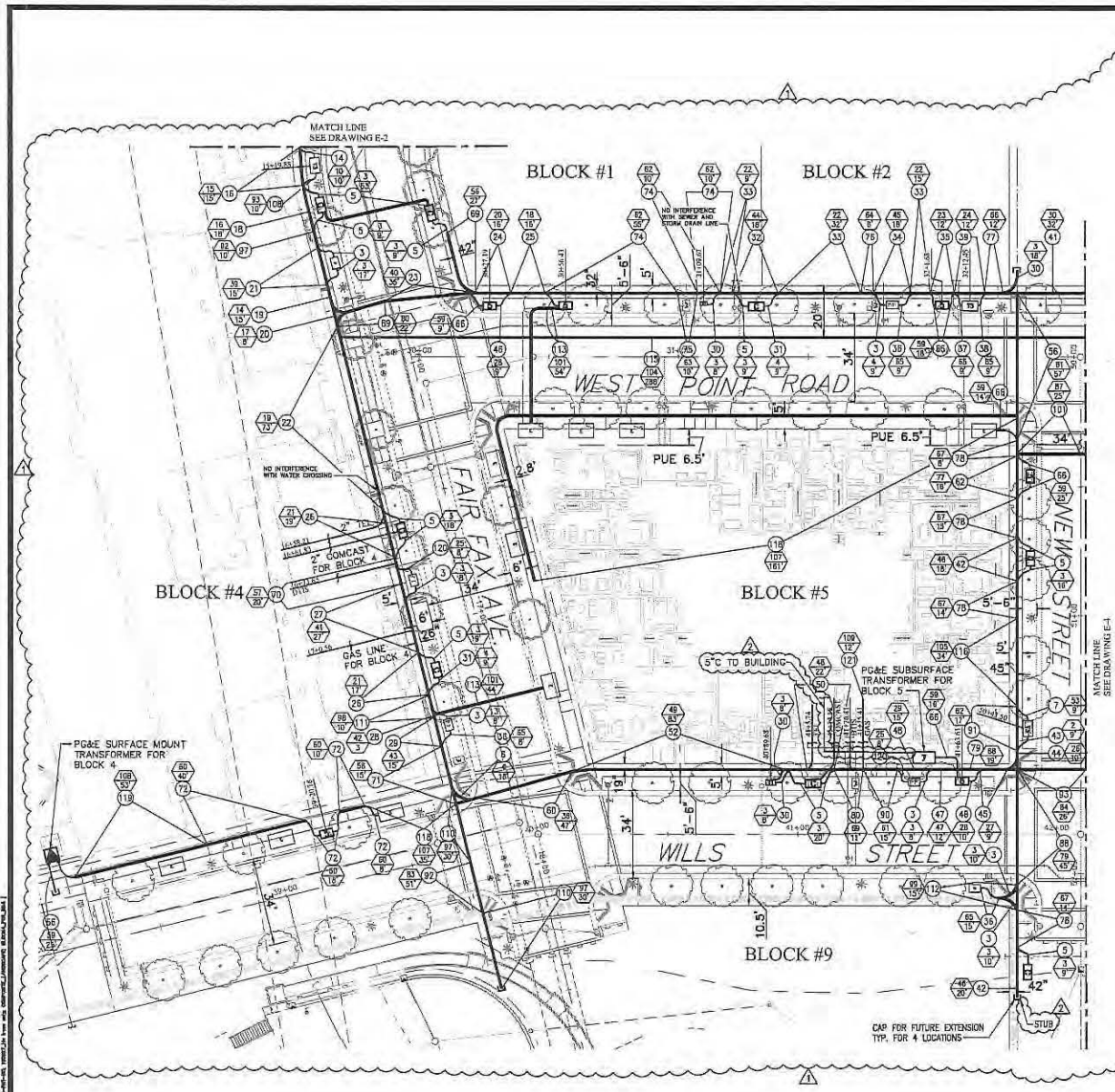
REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	
2	7-2012	AS-BUILT	

ENGINEERING INC.
3000 California Street - Suite 200
San Francisco, CA 94115
TEL: (415) 774-1000 FAX: (415) 774-1001

PHASE 1 INFRASTRUCTURE
JOINT TRENCH PLAN

DATE: SEPT 09, 2011
JOB NO.: 2007030.A1
DRAWING NUMBER: E-2



- NOTES**
1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-6 THROUGH E-17.
 3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWING E-3.
 4. FOR LOCATION OF CONDUIT AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 5. FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 6. FOR DTIS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 8. FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 11. FOR METERING PEDISTAL AND PANEL 'A' SEE DRAWING E-19.
 12. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

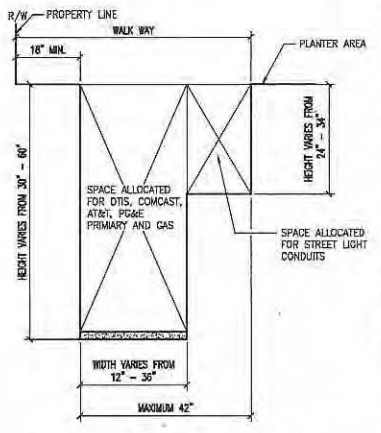


MINIMUM CLEARANCE AND COVER

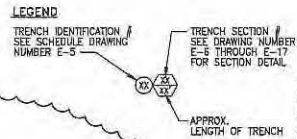
	EP	ES	CAV	TELE	FP	COVER
ELEC. PRIMARY	4"	12"	12"	12"	12"	30" - 36" STREET
ELEC. SECONDARY	4"	12"	12"	12"	12"	18" - 24" STREET
OSP	12"	12"	1"	1"	12"	18" - 24" STREET
TELEPHONE	12"	12"	1"	1"	12"	24" - 36" STREET
FIBER/OPTIC	12"	12"	1"	1"	12"	24" - 36" STREET
GAS	12"	6"	12"	12"	12"	24"

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



JOINT TRENCH CONFIGURATION
 SCALE: 1"=20'
 SCALE: N.T.S.
 0' 20' 40'



REVISIONS

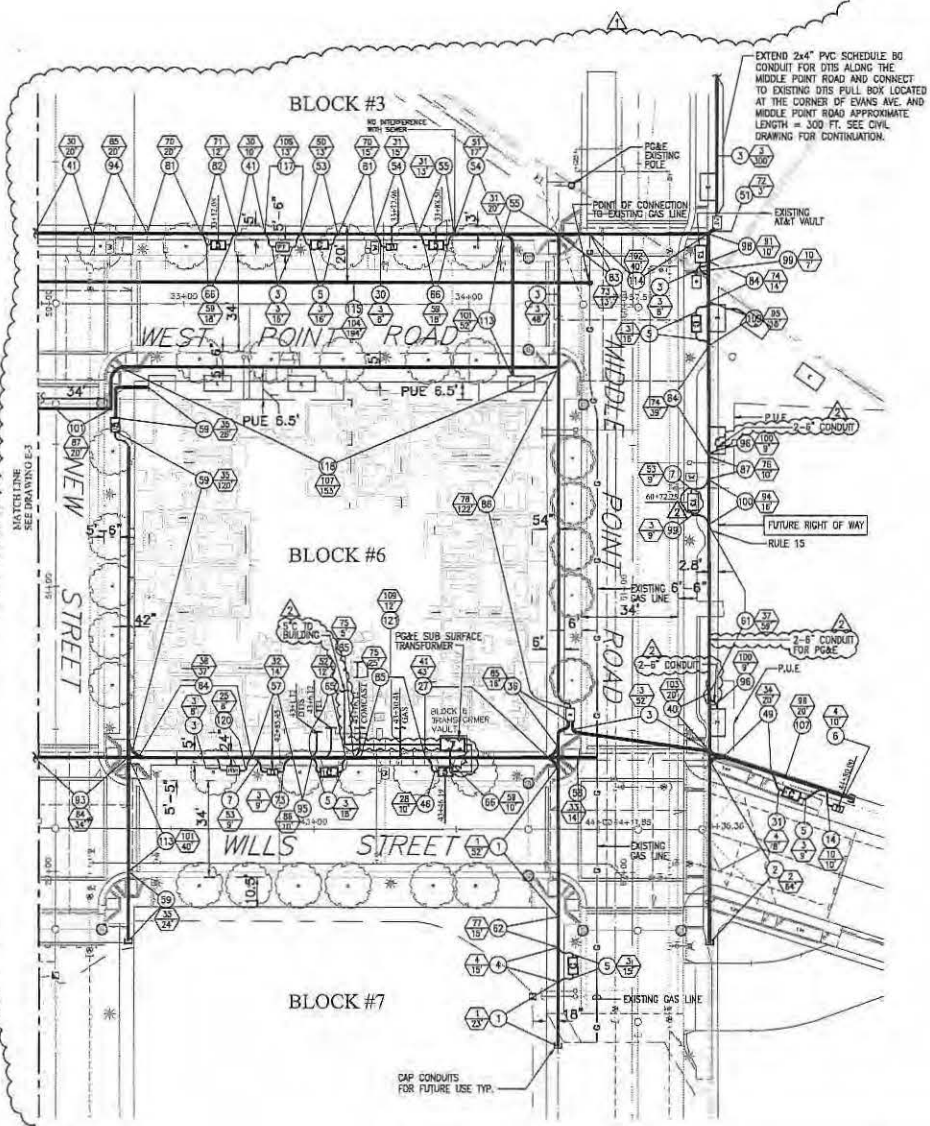
NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	
2	7-2012	AS-BUILT	

ENGINEERING INC.
 1000 CALIFORNIA STREET, SUITE 200
 SAN FRANCISCO, CA 94109
 TEL: (415) 202-8500
 FAX: (415) 202-8500

PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

JOINT TRENCH PLAN

DATE: SEPT 09, 2011
 JOB NO.: 2007030A1
 DRAWING NUMBER: E-3



- NOTES**
1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-6 THROUGH E-17.
 3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWINGS E-6 THROUGH E-17.
 4. FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 5. FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 6. FOR DTIS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 8. FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 11. FOR METERING PEDESTAL AND PANEL 'A' SEE DRAWING E-19.
 12. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

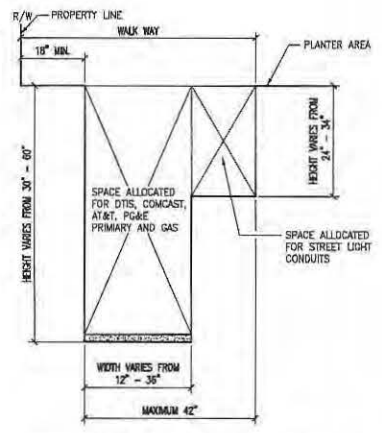


MINIMUM CLEARANCE AND COVER

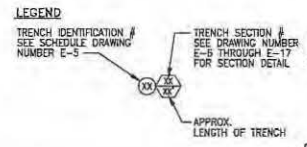
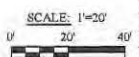
	EP	ES	CONV	TELL	F/P	CONV	COVER
ELEC. PRIMARY	5'	12'	12'	12'	12'	12'	30" - 36" STREET
ELEC. SECONDARY	5'	12'	12'	12'	8'	18"	24" STREET
CONV	12'	12'	1'	1'	12'	12'	
TELEPHONE	12'	12'	1'	1'	12'	24" - 36" STREET	
TRN/PHONE	12'	12'	1'	1'	12'	24" - 36" STREET	
CONV	12'	8'	12'	12'	12'	36"	

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



JOINT TRENCH CONFIGURATION
SCALE: N.T.S.



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	BS	
2	7-2013	AS-BUILT	

NBA ENGINEERING, INC.
887 HUNTERS VIEW, SECOND FLOOR
SAN FRANCISCO, CA 94107
TEL: (415) 202-8534
FAX: (415) 202-8534

DESIGNED BY: HUNTERS VIEW
CHECKED BY: PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA

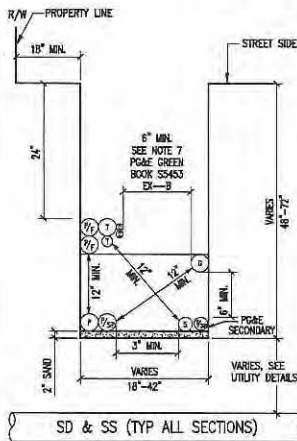
DATE: SEPT 09, 2011
JOB NO.: 2007030.A1
DRAWING NUMBER: E-4

SCALE: 1"=20'

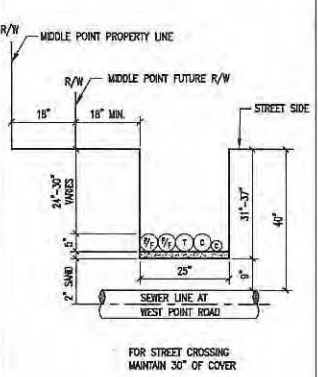
SCALE: N.T.S.

SCALE: 0' 20' 40'

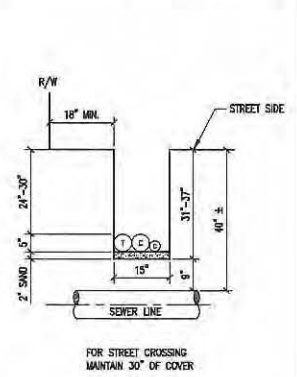
HUNTERS VIEW PHASE 1 INFRASTRUCTURE PROJECT, 1515 JEFFERSON STREET, SAN FRANCISCO, CA 94109
 DRAWING NO. 20070303A1
 DATE: 09/05/2011



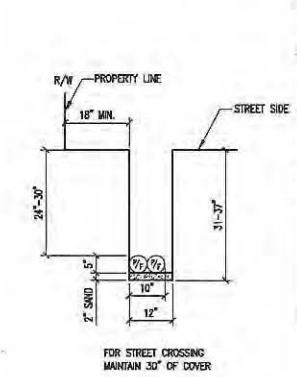
1A TYPICAL JOINT TRENCH DETAIL
N.T.S.



1 JOINT TRENCH DETAIL
N.T.S.



2 JOINT TRENCH DETAIL
N.T.S.



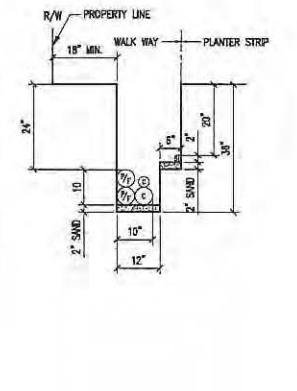
3 JOINT TRENCH DETAIL
N.T.S.

GENERAL NOTES:

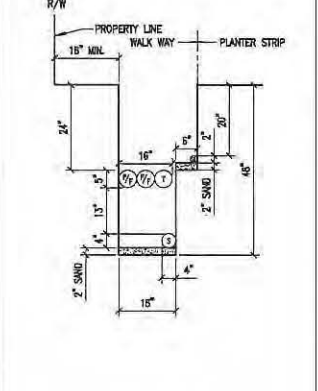
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR UTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

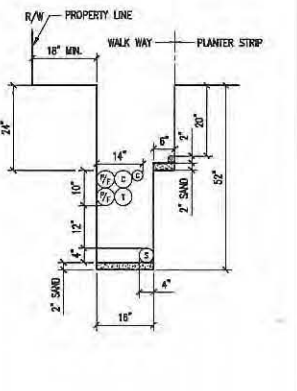
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



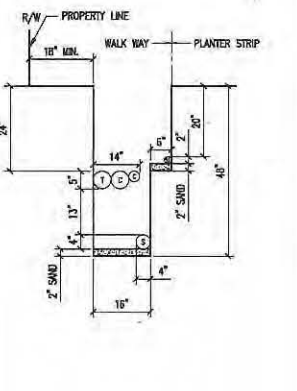
4 JOINT TRENCH DETAIL
N.T.S.



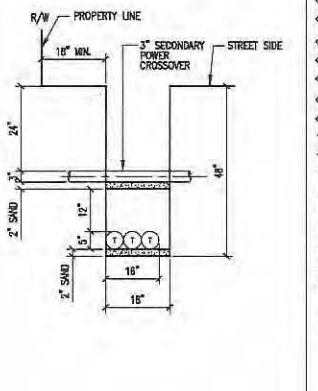
5 JOINT TRENCH DETAIL
N.T.S.



6 JOINT TRENCH DETAIL
N.T.S.



7 JOINT TRENCH DETAIL
N.T.S.



8 JOINT TRENCH DETAIL
N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

ENGINEERING INC.
 1000 CALIFORNIA STREET, SUITE 200
 SAN FRANCISCO, CA 94109
 TEL: (415) 774-8888 FAX: (415) 774-8899

DRAWN BY: A.T.
 CHECKED BY: []
 DESIGNED BY: []

DATE: []

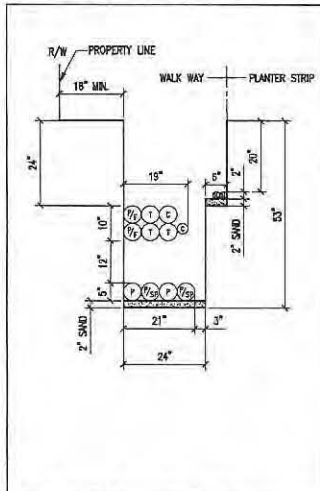
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

JOINT TRENCH DETAILS

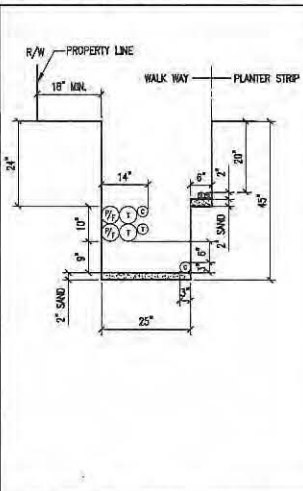
DATE: SEPT 09, 2011
 JOB NO.: 20070303A1
 DRAWING NUMBER:

E-6

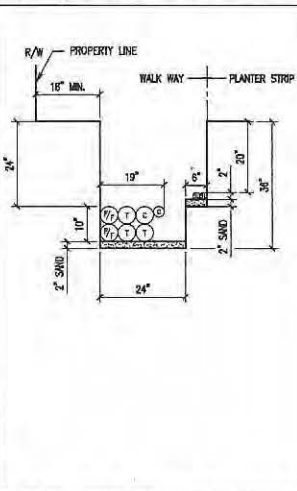
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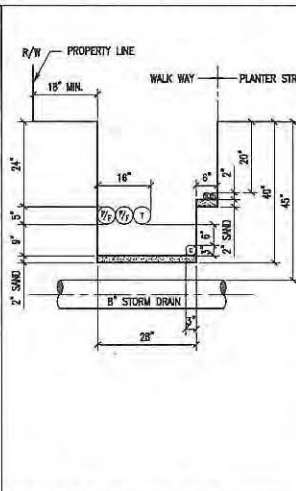
18 JOINT TRENCH DETAIL N.T.S.



19 JOINT TRENCH DETAIL N.T.S.



20 JOINT TRENCH DETAIL N.T.S.



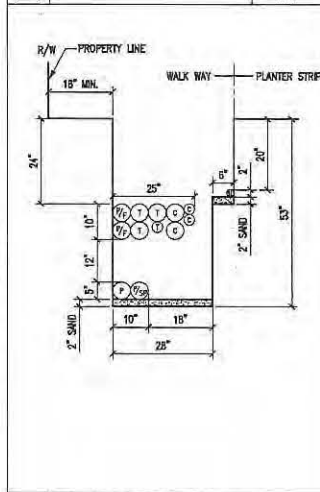
21 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

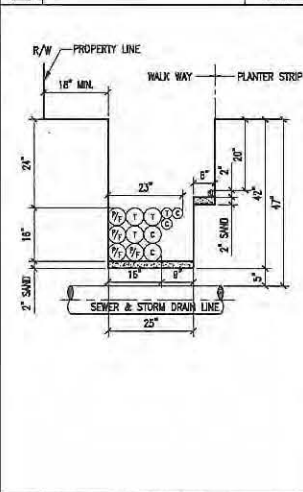
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

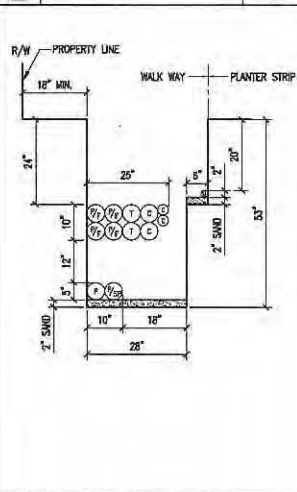
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



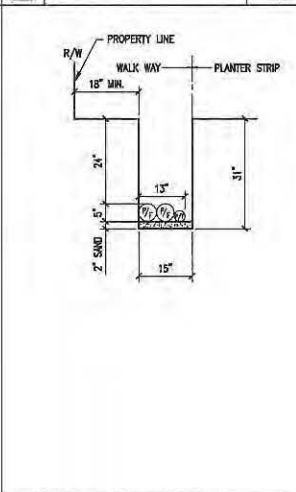
22 JOINT TRENCH DETAIL N.T.S.



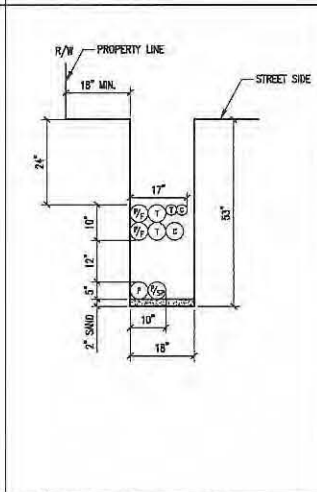
23 JOINT TRENCH DETAIL N.T.S.



24 JOINT TRENCH DETAIL N.T.S.



25 JOINT TRENCH DETAIL N.T.S.



26 JOINT TRENCH DETAIL N.T.S.

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ENGINEERING INC.
 1000 CALIFORNIA STREET, SUITE 200
 SAN FRANCISCO, CA 94109
 TEL: (415) 774-8800 FAX: (415) 774-8805

DRAWN BY: A.T.
 CHECKED BY: [redacted]

DATE: [redacted]

EXPOSED BY: [redacted]
 DESIGNED BY: [redacted]

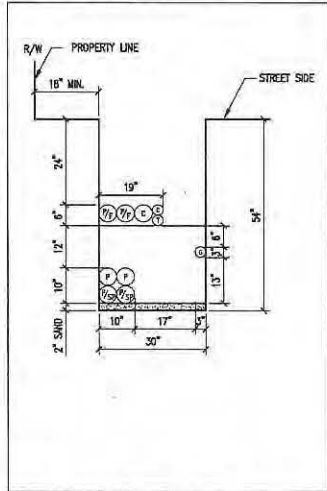
DATE: [redacted]

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

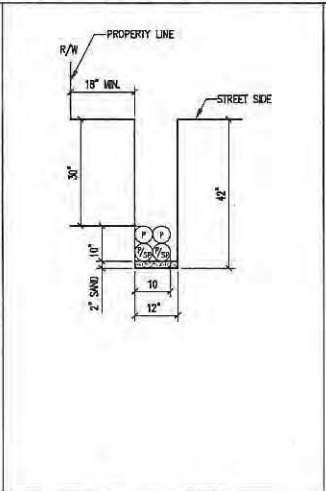
DATE: SEPT 09, 2011
 JOB NO.: 2007030A1
 DRAWING NUMBER:

E-8

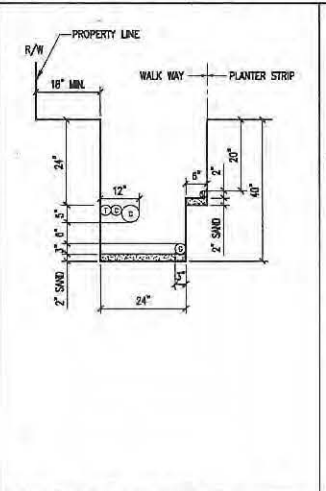
PROJECT: 20100330.01 HUNTERS VIEW PHASE 1 INFRASTRUCTURE PROJECT (A-COMM) (SHEET) 02030.01
 DRAWING NO. 20100330.01



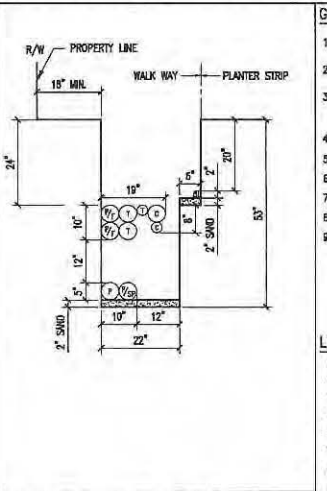
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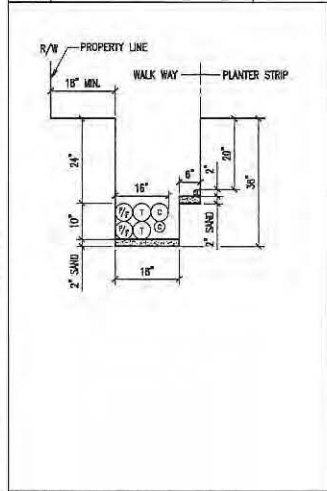
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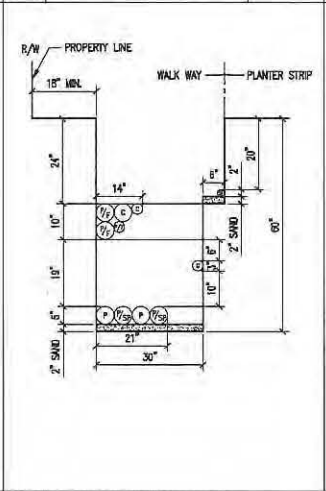
29 JOINT TRENCH DETAIL N.T.S.



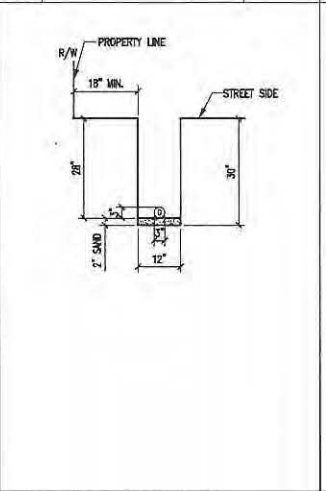
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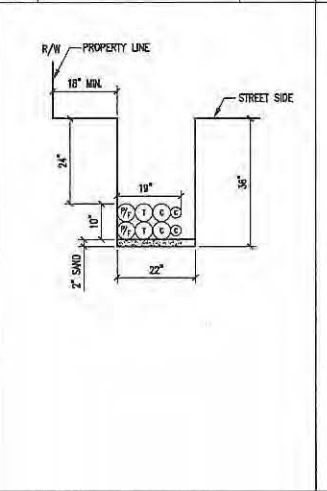
31 JOINT TRENCH DETAIL N.T.S.



32 JOINT TRENCH DETAIL N.T.S.



33 JOINT TRENCH DETAIL N.T.S.



34 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"

31 JOINT TRENCH DETAIL N.T.S.

32 JOINT TRENCH DETAIL N.T.S.

33 JOINT TRENCH DETAIL N.T.S.

34 JOINT TRENCH DETAIL N.T.S.

35 JOINT TRENCH DETAIL N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11		99



ENGINEERING INC.
 1000 CALIFORNIA STREET
 SAN FRANCISCO, CA 94109
 TEL: (415) 774-8800
 FAX: (415) 772-3030

DRAWN BY: A.T.
 CHECKED BY:

DATE:



DESIGNED BY: J.S.B.
 CHECKED BY:

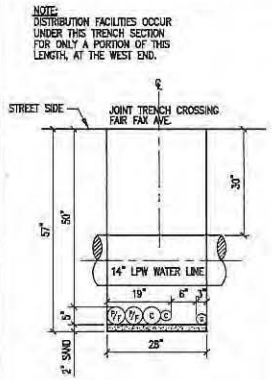
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HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

JOINT TRENCH DETAILS

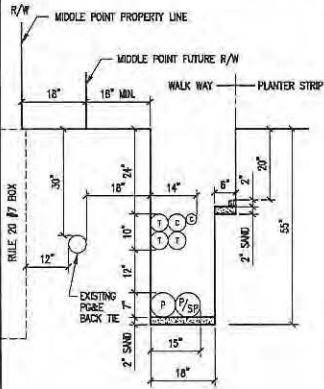
DATE: SEPT 09, 2011
 JOB NO.: 20100330.01
 DRAWING NUMBER: E-9

NOTE:
DISTRIBUTION FACILITIES OCCUR
UNDER THIS TRENCH SECTION
FOR ONLY A PORTION OF THIS
LENGTH, AT THE WEST END.



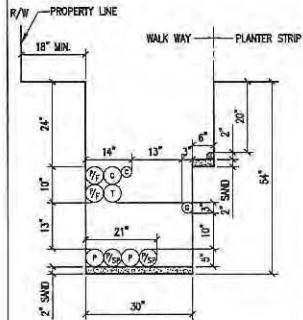
36 JOINT TRENCH DETAIL

N.T.S.



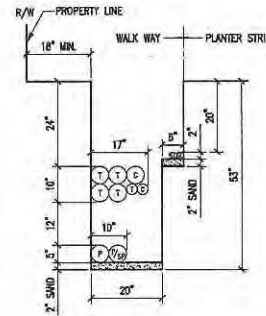
37 JOINT TRENCH DETAIL

N.T.S.



38 JOINT TRENCH DETAIL

N.T.S.



39 JOINT TRENCH DETAIL

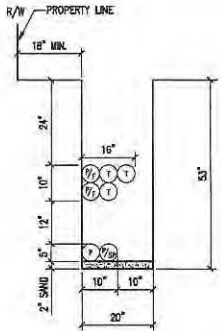
N.T.S.

GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

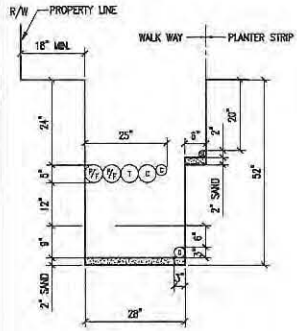
LEGEND:

- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
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- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



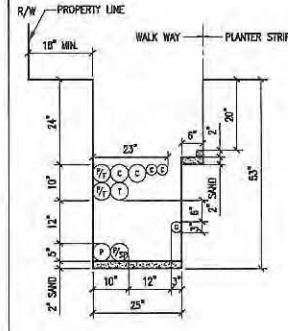
40 JOINT TRENCH DETAIL

N.T.S.



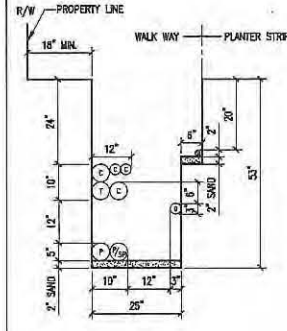
41 JOINT TRENCH DETAIL

N.T.S.



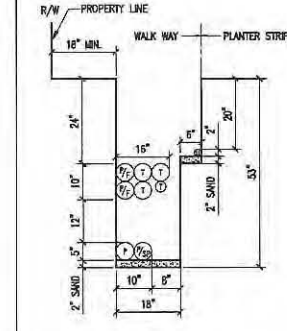
42 JOINT TRENCH DETAIL

N.T.S.



43 JOINT TRENCH DETAIL

N.T.S.



44 JOINT TRENCH DETAIL

N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11		

NBA
ENGINEERING, INC.
1000 CALIFORNIA STREET, SUITE 100
SAN FRANCISCO, CA 94109
TEL: (415) 774-8800
FAX: (415) 774-8800

DRAWN BY
A.T.

DATE

EXPLODED BY

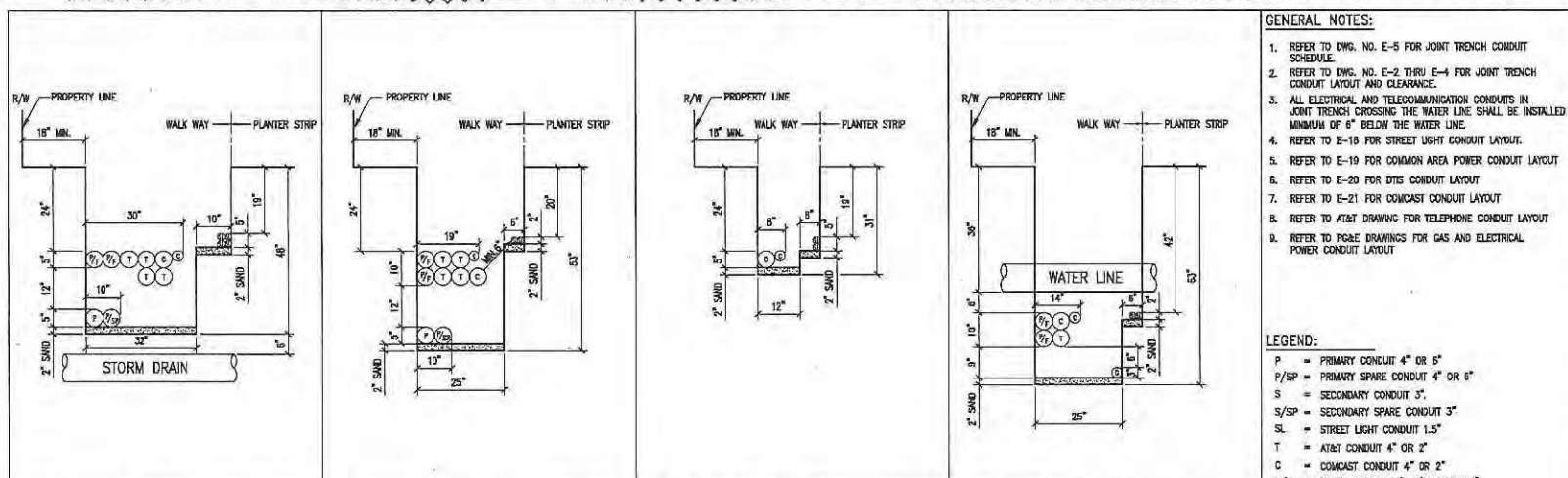
DESIGNED BY

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

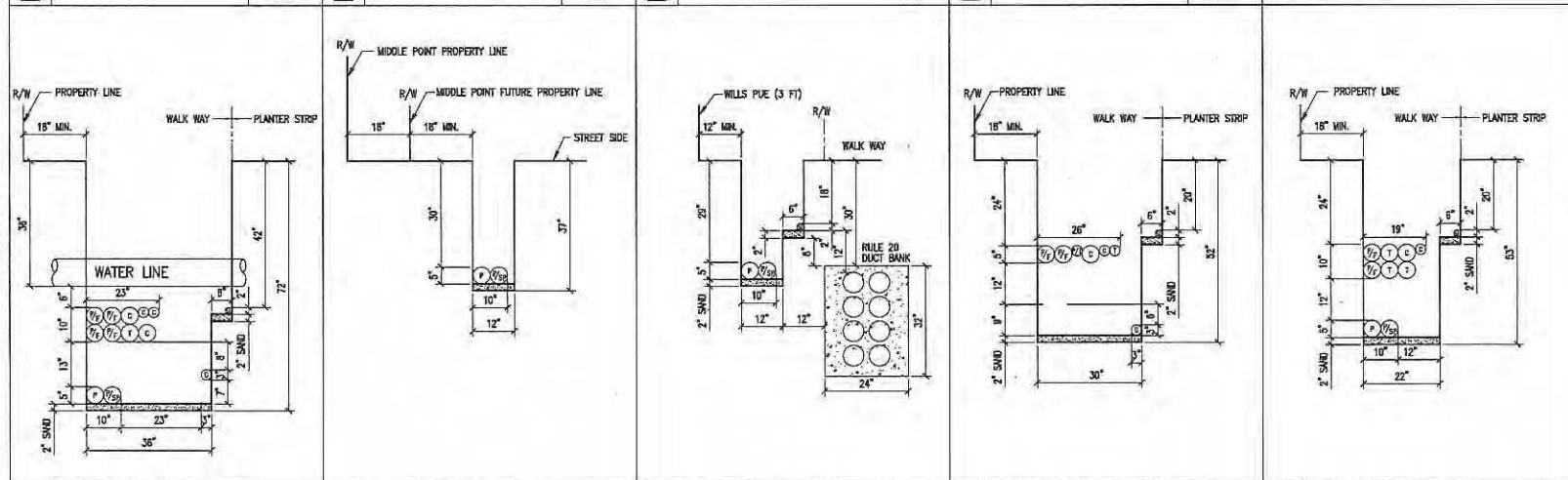
DATE
SEPT 09, 2011
JOB NO.
2007030.01
DRAWING NUMBER

E-10

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.



54 JOINT TRENCH DETAIL N.T.S.
 55 JOINT TRENCH DETAIL N.T.S.
 56 JOINT TRENCH DETAIL N.T.S.
 57 JOINT TRENCH DETAIL N.T.S.



58 JOINT TRENCH DETAIL N.T.S.
 59 JOINT TRENCH DETAIL N.T.S.
 60 JOINT TRENCH DETAIL N.T.S.
 61 JOINT TRENCH DETAIL N.T.S.
 62 JOINT TRENCH DETAIL N.T.S.

- GENERAL NOTES:**
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
 - REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
 - ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
 - REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
 - REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
 - REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
 - REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
 - REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
 - REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

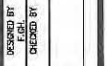
- LEGEND:**
- P = PRIMARY CONDUIT 4" OR 6"
 - P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
 - S = SECONDARY CONDUIT 3"
 - S/SP = SECONDARY SPARE CONDUIT 3"
 - SL = STREET LIGHT CONDUIT 1.5"
 - T = AT&T CONDUIT 4" OR 2"
 - C = COMCAST CONDUIT 4" OR 2"
 - P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
 - G = GAS CONDUIT 4" OR 2"

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NO.	DATE	REVISION	APPR.
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NBA
 ENGINEERING INC.
 807 HYDE STREET, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA 94109
 TEL: (415) 397-8640
 FAX: (415) 397-8935

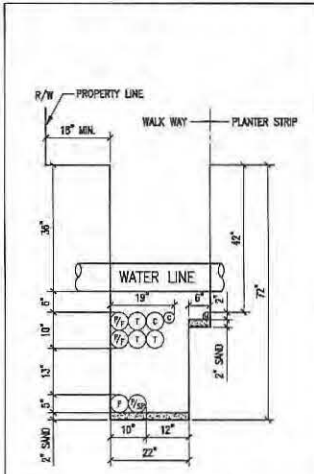
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 CHECKED BY: [Signature]
 DATE: [Blank]



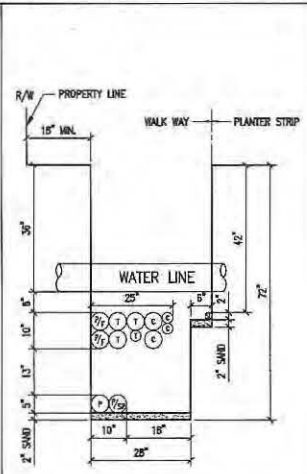
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
 STREET LIGHT & COMMON AREA
 JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER:
E-12

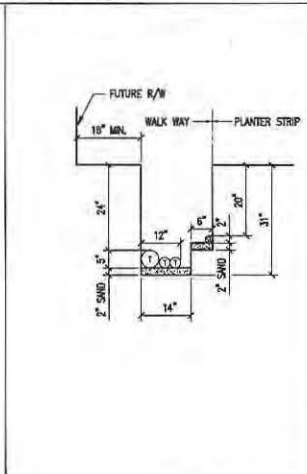
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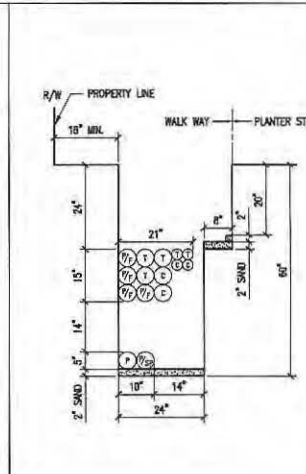
63 JOINT TRENCH DETAIL
N.T.S.



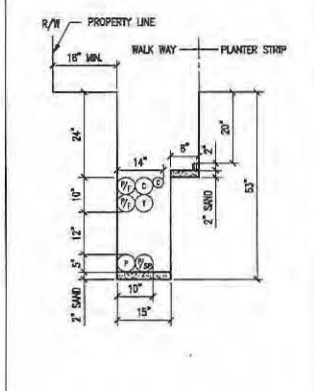
64 JOINT TRENCH DETAIL
N.T.S.



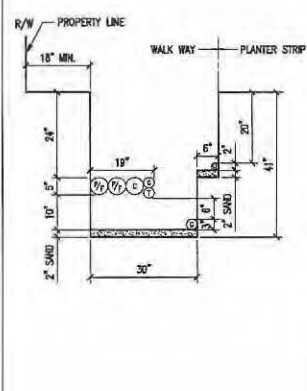
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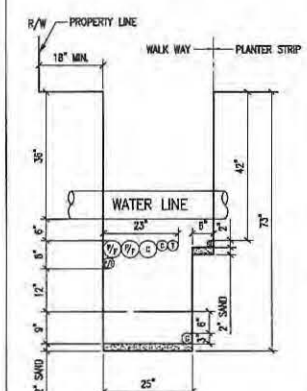
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N.T.S.



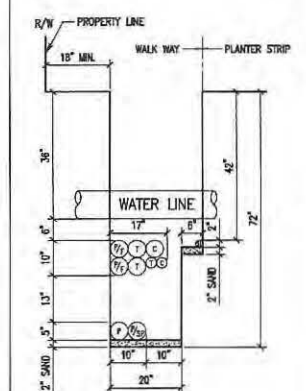
67 JOINT TRENCH DETAIL
N.T.S.



68 JOINT TRENCH DETAIL
N.T.S.



69 JOINT TRENCH DETAIL
N.T.S.



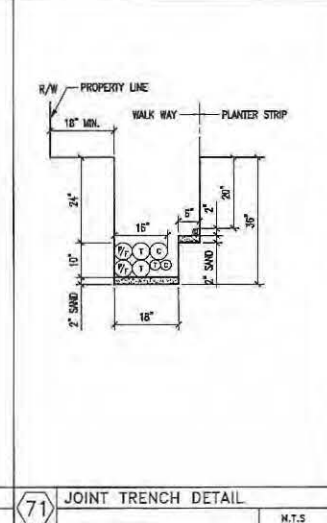
70 JOINT TRENCH DETAIL
N.T.S.

GENERAL NOTES:

- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-16 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR OTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (OTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



71 JOINT TRENCH DETAIL
N.T.S.

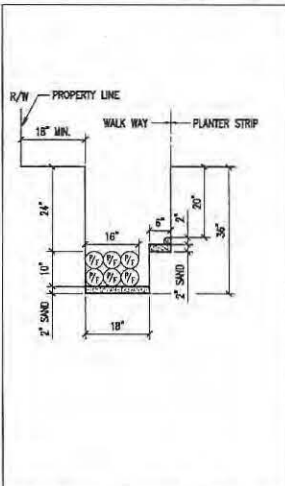
REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

NBA
ENGINEERING, INC.
877 PAVES STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94109
TEL: (415) 392-5100
FAX: (415) 392-5838

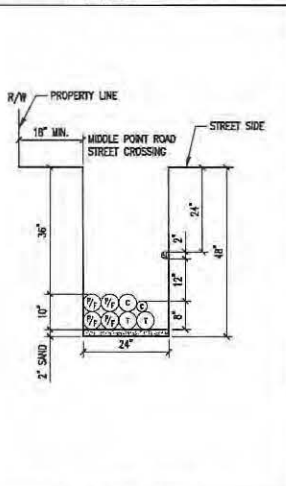
DESIGNED BY: _____ DATE: _____
 CHECKED BY: _____

HUNTERS VIEW
PHASE 1, INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

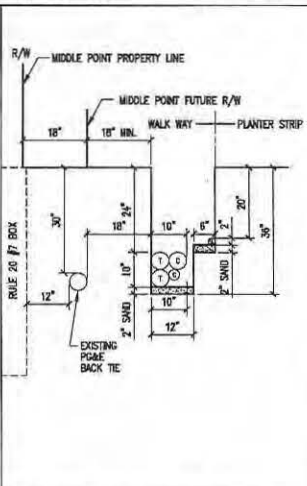
DATE: SEPT 09, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER:
E-13



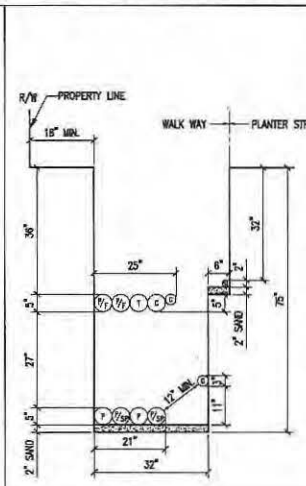
72 JOINT TRENCH DETAIL
N.T.S.



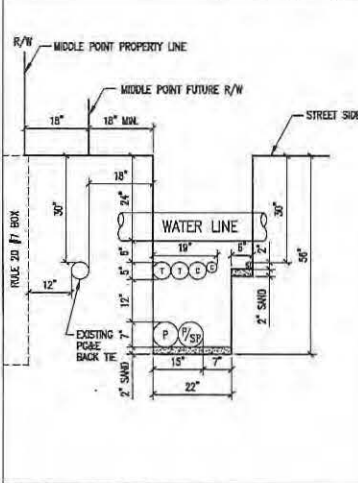
73 JOINT TRENCH DETAIL
N.T.S.



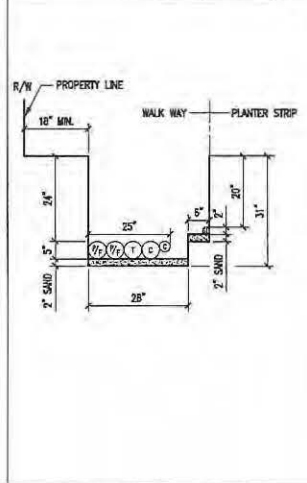
74 JOINT TRENCH DETAIL
N.T.S.



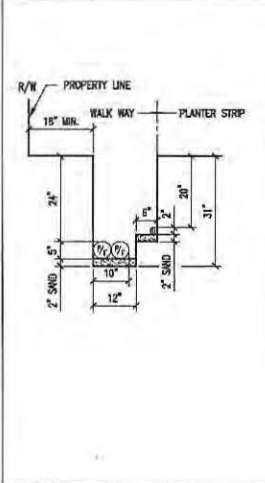
75 JOINT TRENCH DETAIL
N.T.S.



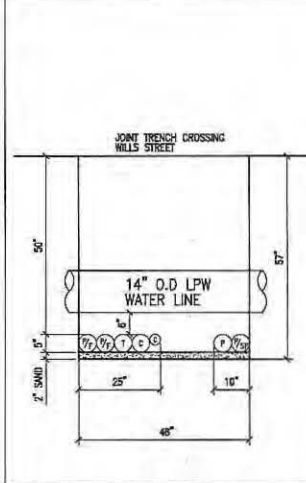
76 JOINT TRENCH DETAIL
N.T.S.



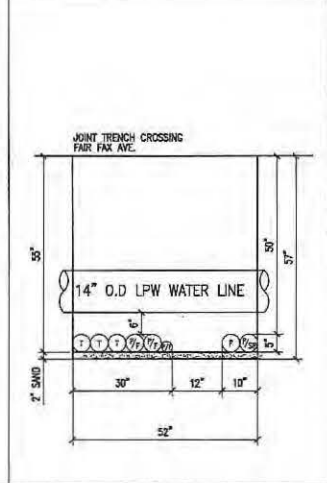
77 JOINT TRENCH DETAIL
N.T.S.



78 JOINT TRENCH DETAIL
N.T.S.



79 JOINT TRENCH DETAIL
N.T.S.



80 JOINT TRENCH DETAIL
N.T.S.

GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR OTIS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

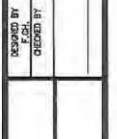
- P = PRIMARY CONDUIT 4" OR 6"
- P/S = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/S = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (OTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"

REVISIONS

NO.	DATE	REVISION	APPN.
1	12-12-11	REV	

NBA
NATIONAL BUILDING ASSOCIATION
ENCLOSURE
899 HYDE STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94109
TEL: (415) 262-8400
FAX: (415) 262-8438

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Blank]

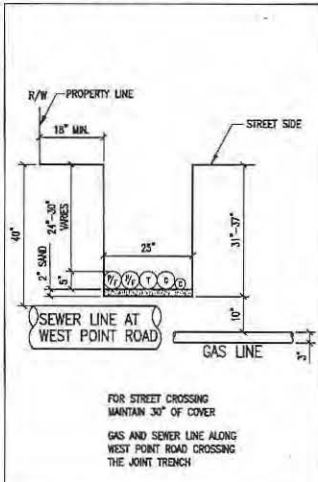


HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

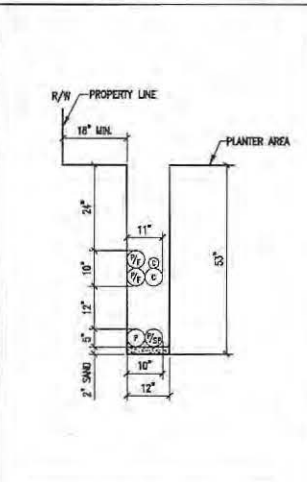
DATE: SEPT 09, 2011
JOB NO.: 2007030A1
DRAWING NUMBER:
E-14

1/4"=1'-0" SCALE FOR ALL VERTICAL DIMENSIONS UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.

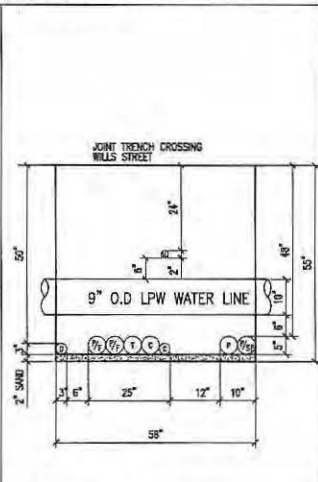
1/2" = 1' SCALE
 ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
 12/12/11
 2011



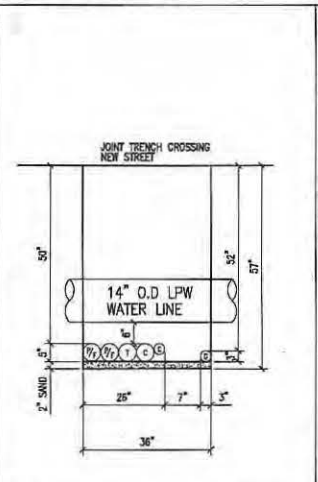
81 JOINT TRENCH DETAIL
N.T.S.



82 JOINT TRENCH DETAIL
N.T.S.



83 JOINT TRENCH DETAIL
N.T.S.



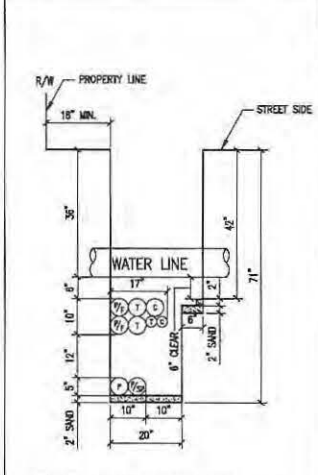
84 JOINT TRENCH DETAIL
N.T.S.

GENERAL NOTES:

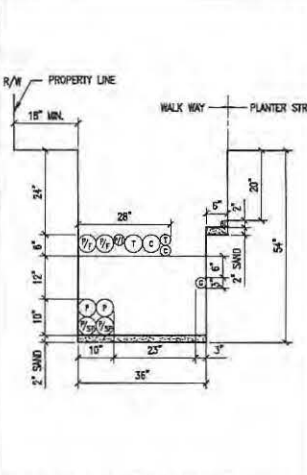
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEME.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 1' BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR UTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO P&BE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

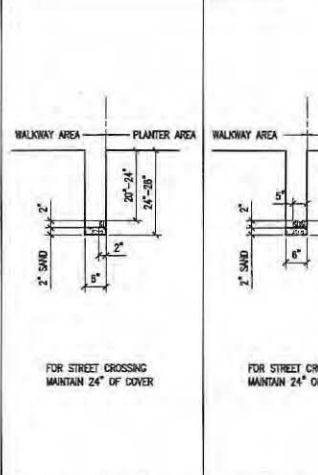
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (UTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



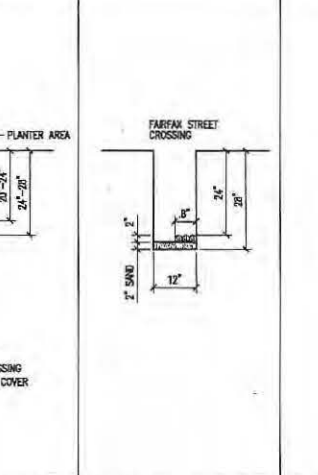
85 JOINT TRENCH DETAIL
N.T.S.



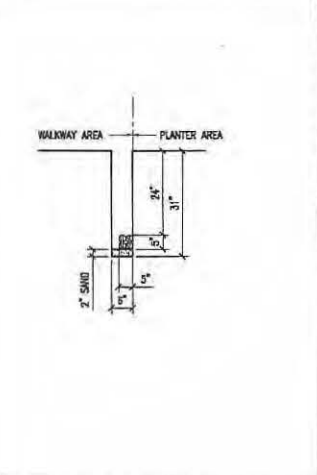
86 JOINT TRENCH DETAIL
N.T.S.



87 JOINT TRENCH DETAIL
N.T.S.



88 JOINT TRENCH DETAIL
N.T.S.



89 JOINT TRENCH DETAIL
N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11		

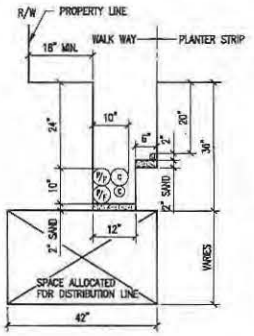
NBA
 ENGINEERING & ARCHITECTURE
 837 HILLS STREET, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA 94103
 TEL: (415) 202-8410
 FAX: (415) 202-8538

DRAWN BY: A.T.
 CHECKED BY: DATE:

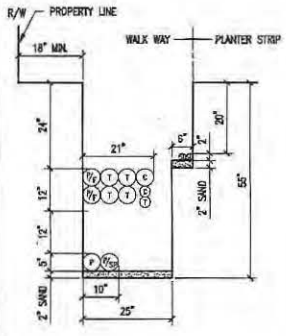
DESIGNED BY: F.Z.H.
 ORDERED BY:

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

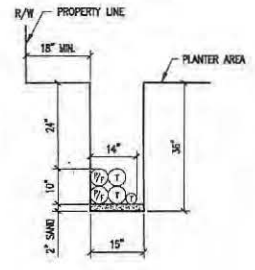
DATE: SEPT 05, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER: **E-15**



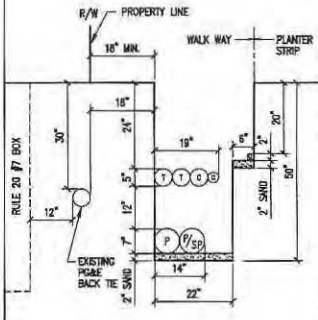
91 JOINT TRENCH DETAIL N.T.S.



92 JOINT TRENCH DETAIL N.T.S.



93 JOINT TRENCH DETAIL N.T.S.



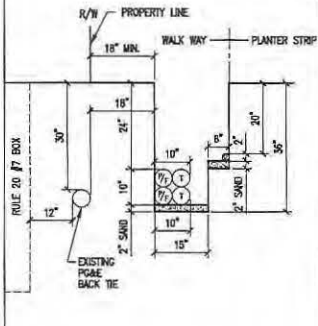
94 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

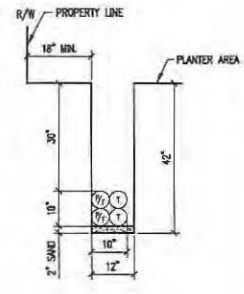
1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR ITS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO PO&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

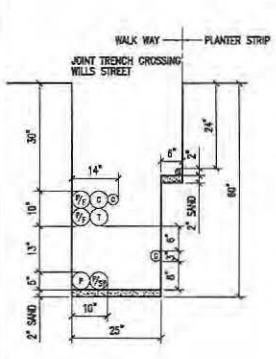
- P = PRIMARY CONDUIT 4" OR 6"
- P/S = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (UTS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



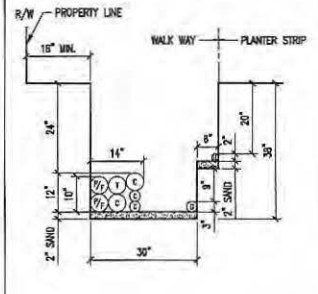
95 JOINT TRENCH DETAIL N.T.S.



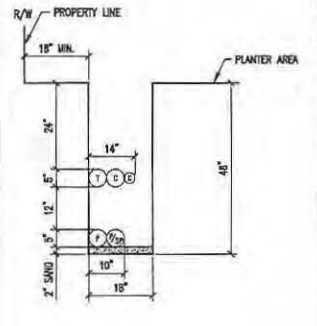
96 JOINT TRENCH DETAIL N.T.S.



97 JOINT TRENCH DETAIL N.T.S.



98 JOINT TRENCH DETAIL N.T.S.



99 JOINT TRENCH DETAIL N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-13-11	99	

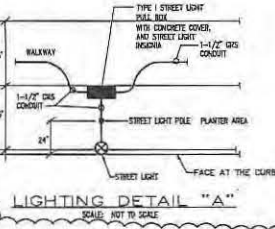
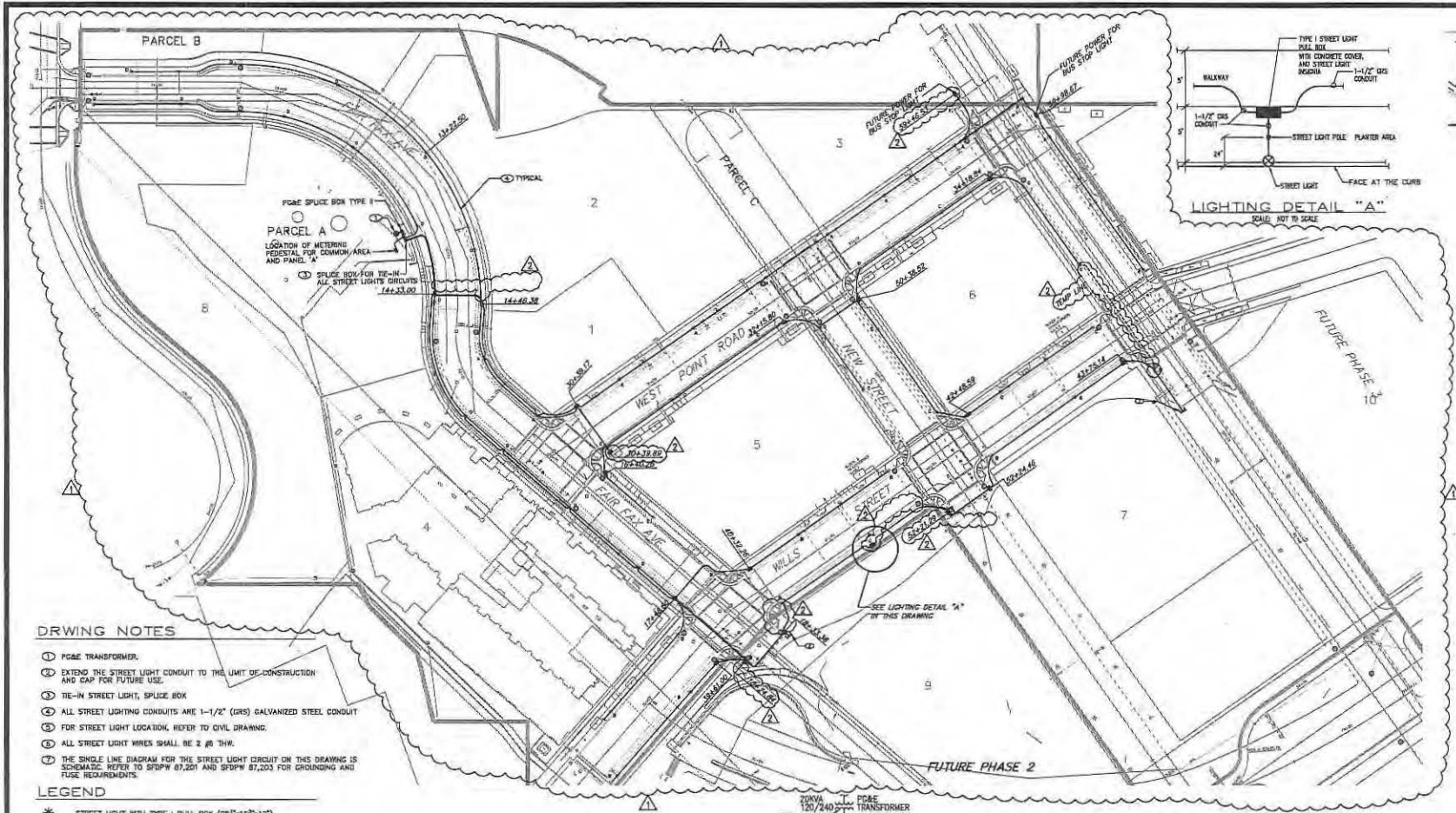


DESIGNED BY: FSK
CHECKED BY: []
DATE: []

HUNTERS VIEW
PHASE I INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
JOB NO.: 2007030A1
DRAWING NUMBER:

14/12/2011 8:52 AM D:\3\Hunters View\hnters_infra\dwg\11-14-11\11-14-11-01.dwg PLOT TO: D:\3\Hunters View\hnters_infra\dwg\11-14-11\11-14-11-01.dwg PLOT DATE: 09/09/2011 8:52 AM

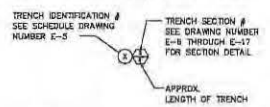


DRAWING NOTES

- ① PG&E TRANSFORMER.
- ② EXTEND THE STREET LIGHT CONDUIT TO THE LIMIT OF CONSTRUCTION AND CAP FOR FUTURE USE.
- ③ TIE-IN STREET LIGHT, SPLICE BOX.
- ④ ALL STREET LIGHTING CONDUITS ARE 1-1/2" (GRS) GALVANIZED STEEL CONDUIT.
- ⑤ FOR STREET LIGHT LOCATION, REFER TO CIVIL DRAWING.
- ⑥ ALL STREET LIGHT WIRES SHALL BE 2 #8 THW.
- ⑦ THE SINGLE LINE DIAGRAM FOR THE STREET LIGHT CIRCUIT ON THIS DRAWING IS SCHEMATIC. REFER TO SFDPW 87,201 AND SFDPW 87,203 FOR GROUNDING AND FUSE REQUIREMENTS.

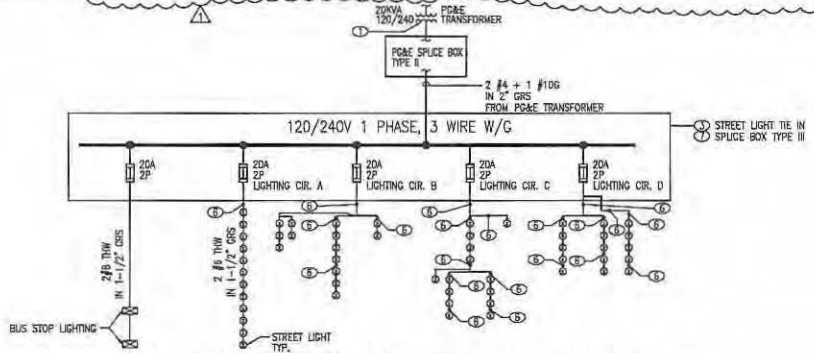
LEGEND

- * STREET LIGHT WITH TYPE I PULL BOX (20" x 10" x 12").
- PG&E TRANSFORMER
- ELECTRICAL PULL BOX TYPE II (20" x 22" x 22").
- STREET LIGHT BOX TYPE I (20" x 10" x 12").
- PG&E SPLICE BOX TYPE II (20" x 17" x 28").

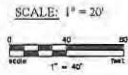


STREET LIGHT GENERAL NOTES

- 1. STREET LIGHT POLES SHALL BE CENTERED 24" FROM FACE OF CURB.
- 2. STREET LIGHTS BASED ON BOE/DPW STANDARD PLAN 87,212.
- 3. PULL BOXES ARE REQUIRED ON BOTH SIDES OF EACH STREET CROSSING.
- 4. PULL BOXES SHALL BE PRECAST AND PER BOE/DPW STANDARD PLAN 87,201.
- 5. ELECTRICAL INFO SHOWN ON THIS PLAN IS FOR BIDDING PURPOSE ONLY. REFER TO DRAWING ES FOR CONDUIT SCHEDULE.



SINGLE LINE DIAGRAM FOR STREET LIGHT CIRCUIT
N.T.S.



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	
2	7-2012	AS-BUILT	

NBA ENGINEERING, INC.
San Francisco - Oakland - San Jose - San Diego
SAN FRANCISCO, CA 94103
TEL: (415) 292-8840
FAX: (415) 292-2525

DESIGNED BY: [Signature] DATE: _____
DRAWN BY: A.T.
CHECKED BY: [Signature]

HUNTERS VIEW
FILES - A-A
SAN FRANCISCO, CALIFORNIA

ELECTRICAL LIGHTING CONDUIT LAYOUT

DATE: SEPT 09, 2011
JOB NO.: 2007030.A1
DRAWING NUMBER: E-18

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ENGINEERING, INC.
 287 HUNTERS VIEW, SUITE 200
 SAN FRANCISCO, CA 94134
 TEL (415) 202-8840
 FAX (415) 202-8838

DESIGNED BY
 DATE
 DRAWN BY
 DATE



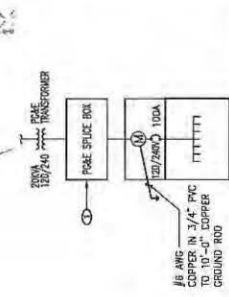
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
 COMMON AREA POWER CONDUIT LAYOUT

DATE: SEPT 09, 2011
 FOR NO. 10000, A1
 DRAWING NUMBER
E-19



REVISIONS

NO.	DATE	REVISION	APPROV.
1	12-15-11		

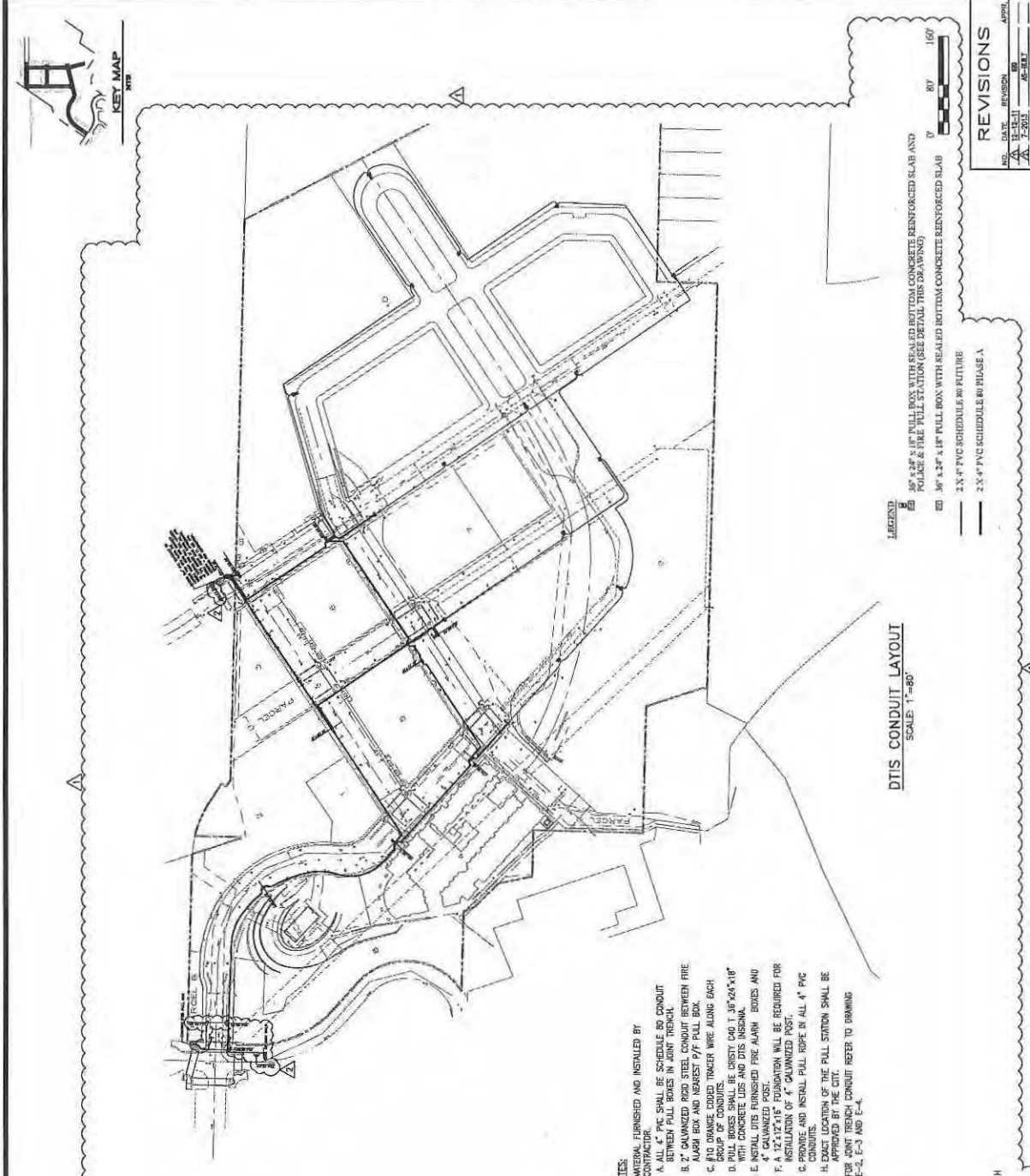


METERING & COMMON AREA USAGE ELECTRICAL PANEL "A"
 NEMA 4 PEDestal MOUNTED

- DRAWING NOTES**
1. PLACE ELECTRICAL SPICE BOX TYPE I (NOT A 1" x 1" x 30").
 2. EXTEND THE POWER PVC CONDUIT TO THE LIMIT OF CONSTRUCTION AND CAP FOR FUTURE USE.
 3. FUTURE UNDER GROUND PVC CONDUIT.
 4. FOR JOINT TRENCH LAYOUT SEE DRAWINGS E-2, E-3 AND E-4.
 5. ALL COMMON AREA POWER AND IRRIGATION CONTROL CONDUITS SHOWN IN THIS DRAWING ARE 5" PVC SCHEDULE 40.
 6. ALL COMMON AREA POWER & IRRIGATION CONTROL PANEL WIRING SHALL BE 4/0-1100V THHN.

Common Area Electrical Panel A

NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	120/240V TRANSFORMER	1		
2	POWER SPICE BOX	1		
3	1/2" COPPER IN 3/4" PVC	100	FT	
4	10'-0" COPPER GROUND ROD	1		
5	5" PVC SCHEDULE 40	100	FT	
6	4/0-1100V THHN	100	FT	
7	1" PVC SCHEDULE 40	100	FT	
8	1/2" PVC SCHEDULE 40	100	FT	
9	1/4" PVC SCHEDULE 40	100	FT	
10	1/2" PVC SCHEDULE 40	100	FT	
11	1/4" PVC SCHEDULE 40	100	FT	
12	1/2" PVC SCHEDULE 40	100	FT	
13	1/4" PVC SCHEDULE 40	100	FT	
14	1/2" PVC SCHEDULE 40	100	FT	
15	1/4" PVC SCHEDULE 40	100	FT	
16	1/2" PVC SCHEDULE 40	100	FT	
17	1/4" PVC SCHEDULE 40	100	FT	
18	1/2" PVC SCHEDULE 40	100	FT	
19	1/4" PVC SCHEDULE 40	100	FT	
20	1/2" PVC SCHEDULE 40	100	FT	
21	1/4" PVC SCHEDULE 40	100	FT	
22	1/2" PVC SCHEDULE 40	100	FT	
23	1/4" PVC SCHEDULE 40	100	FT	
24	1/2" PVC SCHEDULE 40	100	FT	
25	1/4" PVC SCHEDULE 40	100	FT	
26	1/2" PVC SCHEDULE 40	100	FT	
27	1/4" PVC SCHEDULE 40	100	FT	
28	1/2" PVC SCHEDULE 40	100	FT	
29	1/4" PVC SCHEDULE 40	100	FT	
30	1/2" PVC SCHEDULE 40	100	FT	
31	1/4" PVC SCHEDULE 40	100	FT	
32	1/2" PVC SCHEDULE 40	100	FT	
33	1/4" PVC SCHEDULE 40	100	FT	
34	1/2" PVC SCHEDULE 40	100	FT	
35	1/4" PVC SCHEDULE 40	100	FT	
36	1/2" PVC SCHEDULE 40	100	FT	
37	1/4" PVC SCHEDULE 40	100	FT	
38	1/2" PVC SCHEDULE 40	100	FT	
39	1/4" PVC SCHEDULE 40	100	FT	
40	1/2" PVC SCHEDULE 40	100	FT	
41	1/4" PVC SCHEDULE 40	100	FT	
42	1/2" PVC SCHEDULE 40	100	FT	
43	1/4" PVC SCHEDULE 40	100	FT	
44	1/2" PVC SCHEDULE 40	100	FT	
45	1/4" PVC SCHEDULE 40	100	FT	
46	1/2" PVC SCHEDULE 40	100	FT	
47	1/4" PVC SCHEDULE 40	100	FT	
48	1/2" PVC SCHEDULE 40	100	FT	
49	1/4" PVC SCHEDULE 40	100	FT	
50	1/2" PVC SCHEDULE 40	100	FT	



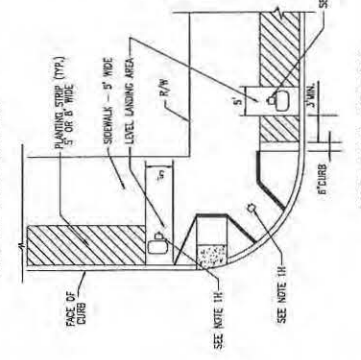
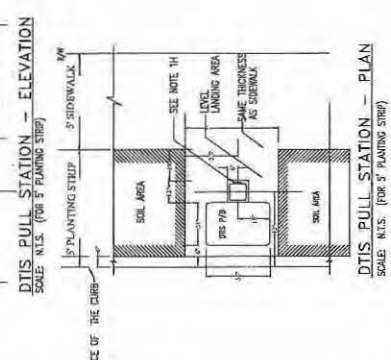
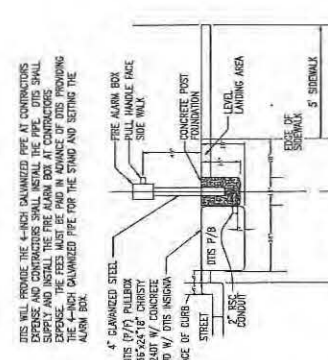
REVISIONS

NO.	DATE	REVISION	APPR.
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2	07-05-2011		
3	07-05-2011		
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15	07-05-2011		
16	07-05-2011		
17	07-05-2011		
18	07-05-2011		
19	07-05-2011		
20	07-05-2011		

LEGEND

- 1 4" x 4" PVC SCHEDULE 40 CONDUIT
- 2 2" x 4" PVC SCHEDULE 40 CONDUIT
- 3 1" x 4" PVC SCHEDULE 40 CONDUIT
- 4 3/4" x 4" PVC SCHEDULE 40 CONDUIT
- 5 1/2" x 4" PVC SCHEDULE 40 CONDUIT
- 6 1" x 4" PVC SCHEDULE 40 CONDUIT
- 7 3/4" x 4" PVC SCHEDULE 40 CONDUIT
- 8 1/2" x 4" PVC SCHEDULE 40 CONDUIT
- 9 1" x 4" PVC SCHEDULE 40 CONDUIT
- 10 3/4" x 4" PVC SCHEDULE 40 CONDUIT
- 11 1/2" x 4" PVC SCHEDULE 40 CONDUIT
- 12 1" x 4" PVC SCHEDULE 40 CONDUIT
- 13 3/4" x 4" PVC SCHEDULE 40 CONDUIT
- 14 1/2" x 4" PVC SCHEDULE 40 CONDUIT
- 15 1" x 4" PVC SCHEDULE 40 CONDUIT
- 16 3/4" x 4" PVC SCHEDULE 40 CONDUIT
- 17 1/2" x 4" PVC SCHEDULE 40 CONDUIT
- 18 1" x 4" PVC SCHEDULE 40 CONDUIT
- 19 3/4" x 4" PVC SCHEDULE 40 CONDUIT
- 20 1/2" x 4" PVC SCHEDULE 40 CONDUIT

- NOTES:**
- MATERIAL FURNISHED AND INSTALLED BY CONTRACTOR.
 - ALL 4" PVC SHALL BE SCHEDULE 40 CONDUIT BETWEEN PULL BOXES IN JOINT TRENCH.
 - 2" GALVANIZED RIGID STEEL CONDUIT BETWEEN FIRE ALARM BOX AND NEAREST P/F PULL BOX.
 - P/F DRAINAGE CODED TRUNKER WIRE ALONG EACH CONDUIT.
 - PULL BOXES SHALL BE CASTY (C40) 1 3/4" x 2 1/4" x 1 1/4" WITH CONCRETE LIDS AND DTIS INSOLATION.
 - INSTALL DTIS FURNISHED FIRE ALARM BOXES AND 4" GALVANIZED POST.
 - A 1/2" x 1/2" x 1/2" FODDATION WILL BE REQUIRED FOR INSTALLATION OF 4" GALVANIZED POST.
 - CONDUITS SHALL BE INSTALLED AND INSTALLED PULL ROPE IN ALL 4" PVC CONDUITS.
 - EXACT LOCATION OF THE PULL STATION SHALL BE APPROVED BY THE CITY.
 - FOR JOINT TRENCH CONDUIT REFER TO DRAWING E-2, E-3 AND E-4.



DTIS WILL PROVIDE THE 4-INCH GALVANIZED PIPE AT CONTRACTORS EXPENSE AND CONTRACTORS SHALL INSTALL THE PIPE. DTIS SHALL SUPPLY AND INSTALL THE FIRE ALARM BOX AT CONTRACTORS EXPENSE AND CONTRACTORS SHALL INSTALL THE 4-INCH GALVANIZED PIPE FOR THE STAND AND SETTING THE ALARM BOX.

4" GALVANIZED STEEL
 DTIS (P/F) PULLBOX
 2 1/2" x 1 1/2" x 1 1/2" CONCRETE
 W/ W/ DTIS INSOLATION
 FACE OF CURB
 2" RIGID CONDUIT
 CONCRETE POST
 FOUNDATION
 LEVEL LANDING AREA
 3' SIDEWALK
 3" PLANTING STRIP

FACE OF CURB
 3" SIDEWALK
 SEE NOTE 1H
 LEVEL LANDING AREA
 SAME THICKNESS AS SIDEWALK
 SEE NOTE 1H
 P/F P/B
 SKEL AREA

PLANTING STRIP (P/F)
 3" OR 6" WIDE
 SIDEWALK - 3" WIDE
 LEVEL LANDING AREA
 R/W
 8" CURB
 1" J.WALK
 SEE NOTE 1H
 SEE NOTE 1H

Bill of Sale

For good and valuable consideration of \$0.00, HV Partners 1, L.P., a California Limited Partnership ("Seller"), does hereby sell, transfer and convey to Pacific Gas and Electric Company ("Buyer"), title to those portions of the facilities which are the identified as Buyer's facilities on the "as built" drawings attached hereto as Schedule 1 ("Personal Property"), subject to the terms and provisions hereof.

Seller has executed this Bill of Sale and bargained, sold, transferred, conveyed and assigned the Personal Property and Buyer has accepted this Bill of Sale and is purchasing the Personal Property: **AS IS AND WHEREEVER LOCATED, WITH ALL FAULTS AND WITHOUT ANY REPRESENTATIONS OR WARRANTIES OF WHATSOEVER NATURE, EXPRESS, IMPLIED OR STATUTORY, EXCEPT AS EXPRESSLY SET FORTH HEREIN BELOW, IT BEING THE INTENTION OF THE SELLER AND BUYER TO EXPRESSLY NEGATE AND EXCLUDE ALL WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Seller hereby assigns all warranties and guaranties relating to the construction of the Personal Property that were given by the independent contractor hired by Seller to construct the Personal Property. As used herein the term "**Correction Period**" shall mean one (1) year after "**Final Completion**" (as hereinafter defined). Seller shall, to Buyer's reasonable satisfaction, and provided that such work is not the subject of a warranty or guaranty assigned by Seller to Buyer, re-execute or otherwise remedy any defects in the Personal Property due to faulty workmanship that become apparent during the Correction Period. As used herein, the term "**Final Completion**" shall mean May 9, 2017.

Dated this 21st day of June, 2019.

Signatures on following page.

SELLER

HV PARTNERS 1, LP,
a California limited partnership

By: HUNTERS POINT AFFORDABLE HOUSING, INC.,
a California nonprofit public benefit
corporation,
its managing general partner

By: Larry B. Hollingsworth (i.e.)
Larry B. Hollingsworth
President

By: JSCo HUNTERS VIEW LLC,
a California limited liability company,
its co-general partner

By: JOHN STEWART COMPANY,
a California corporation,
its managing member

By: Jack D. Gardner
Jack D. Gardner
President

By: HV AMANI LLC,
a California limited liability company,
its co-general partner

By: DEVINE & GONG, INC.,
a California corporation,
its managing member

By: Chan U Lee
Chan U Lee
President

SCHEDULE 1

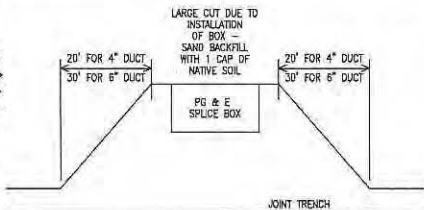
As Built Plans entitled:

Hunters View Phase I Joint Trench Plans
Sheets E-1 through E-21.

Prepared by: NBA Engineering, Inc.

DRAWING INDEX

E-1	LEGEND, ABBREVIATIONS, DRAWING INDEX, AND GENERAL NOTES
E-2	JOINT TRENCH PLAN
E-3	JOINT TRENCH PLAN
E-4	JOINT TRENCH PLAN
E-5	JOINT TRENCH CONDUIT SCHEDULE
E-6	JOINT TRENCH DETAILS
E-7	JOINT TRENCH DETAILS
E-8	JOINT TRENCH DETAILS
E-9	JOINT TRENCH DETAILS
E-10	JOINT TRENCH DETAILS
E-11	JOINT TRENCH DETAILS
E-12	JOINT TRENCH DETAILS
E-13	JOINT TRENCH DETAILS
E-14	JOINT TRENCH DETAILS
E-15	JOINT TRENCH DETAILS
E-16	JOINT TRENCH DETAILS
E-17	JOINT TRENCH DETAILS
E-18	ELECTRICAL LIGHTING CONDUIT LAYOUT
E-19	COMMON AREA POWER CONDUIT LAYOUT
E-20	DTIS CONDUIT LAYOUT
E-21	COMCAST CONDUIT LAYOUT



ABBREVIATIONS

AC	INTERRUPTING CAPACITY
C	COMCAST CONDUIT 4" OR 2"
CB	CIRCUIT BREAKER
(C)	EXISTING
FBO	FURNISHED BY OTHERS
FV	FUSES: DUAL-ELEMENT, TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND	GROUND
HP	HORSE POWER
IG	ISOLATED GROUND
K	kcmil (300K = 300 kcmil)
KCMIL	THOUSAND CIRCULAR MILL
KV	KILOVOLTS
LTD	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
M	MANHOLE
(N)	NEW
NEUT	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NC	NOT IN CONTRACT
P/F	POLICE/FIRE CONDUIT (DTIS) 4"
PB	PULL BOX
P	PRIMARY CONDUIT 4", OR 6"
PANL	PANEL
(R)	EXISTING TO BE REMOVED
S	SECONDARY CONDUIT 3"
SP	SPARE
SL	STREET LIGHT CONDUIT 1 1/2" GRS
T	AT&T CONDUIT 4" OR 2"
TBD	TO BE DETERMINED
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDER GROUND
UN	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHER PROOF (NEMA 3R)
XFMR	TRANSFORMER

SUBSTRUCTURE VERIFICATION

TRENCHING AGENT
 PROPER DEPTH OF TRENCH AND SUBSTRUCTURES ARE IMPERATIVE TO THE DESIGN OF OUR UTILITY DISTRIBUTION SYSTEM.
 IF A VARIANCE IS NECESSARY PLEASE NOTIFY PG&E SO THAT OUR INSPECTOR OR ENGINEERING DEPARTMENT CAN APPROVE AND INITIAL THOSE SECTIONS OF TRENCH AND/OR SUBSTRUCTURES WHICH DO NOT COMPLY WITH THE ORIGINAL DESIGN. THIS MUST BE DONE PRIOR TO INSTALLATION OF ANY SUBSTRUCTURES.
 THE TRENCHING AGENT WILL BE HELD RESPONSIBLE FOR ANY UNAPPROVED DESIGN CHANGES IN TRENCH OR SUBSTRUCTURE DEPTH OR CONFIGURATION.
 THIS DOES NOT SUPERCEDE, BUT IS IN ADDITION TO ANY OF THE NORMAL TRENCH INSPECTIONS YOUR PROJECT MAY REQUIRE.

DESIGN CHANGE COMPONENT
 ANY CHANGES TO THIS DESIGN
 MUST BE APPROVED BY

MARIO MELENDEZ 1-415-695-3518
 SAN FRANCISCO
 PG&E GAS ADE

LEGEND

⊙	SURFACE MOUNT TRANSFORMER 12KV-120/240V, 1PHASE, 3W
⊠	SURFACE MOUNT TRANSFORMER 12KV-120/240V, 3PHASE, 4W
□	PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE, TYPE I, 3' x 5' x 4' 6"
□	PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE TYPE II, 4'-6" x 6'-6" x 6'-0"
■	ELECTRICAL STREET LIGHT TYPE I PULL BOX 25 1/4" x 15 3/4" x 12"
⊞	PG&E TIE IN SPLICE BOX TYPE II, 30" x 17" x 25"
⊞	TIE-IN STREET LIGHT SPLICE BOX TYPE III (35 1/4" x 22 1/4" x 12" x 10) EXTENSION
⊞	POLICE AND FIRE ALARM PULL BOX (DTIS - PULLBOX) 36" x 24" x 18" CRISTY CAST WITH CONCRETE COVER AND DTIS SIGNA
⊞	FIRE ALARM PULLBOX WITH PULL STANCHION
□	AT&T PULL BOX
□	COMCAST PULL BOX
⊞	GROUND ROD - 3/4", 12' LONG ON PRIMARY UNDERGROUND EQUIPMENT ENCLOSURE GROUND ROD - 5/8", 10' LONG ON SECONDARY UNDERGROUND EQUIPMENT ENCLOSURE
⊞	METERING PEDESTAL
⊞	AT&T SWITCH BOARD MAIN DISTRIBUTION
— —	INLINE FUSE
□	UTILITY CABINET
— — —	PROPOSED TRENCH ROUTE
— G —	EXISTING GAS LINE
— - -	WATCH LINE
T1	17"x30"x26" W/POLYMER COVER
T2	24"x36"x42" W/POLYMER COVER
T3	30"x48"x36" W/POLYMER COVER
T4	30"x60"x36" W/POLYMER COVER
T5	36"x60"x48" WITH STEEL HANG OVER

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS AMENDED BY LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ELECTRICAL CODE REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BE FAMILIARIZED WITH THE EXISTING UTILITIES INSTALLATIONS, CONDITIONS, AND SYSTEMS RELATED TO THE SCOPE OF WORK.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, FEES AND EQUIPMENT SPECIFIED, INDICATED OR IMPLIED IN THESE DOCUMENTS TO ACCOMPLISH THE CONSTRUCTION IN A PROFESSIONAL, WORKMANLIKE MANNER. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION TASKS INDICATED AND LOCAL CODES AND/OR ORDINANCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK AT ISSUE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED ELECTRICAL PERMITS AND INSPECTIONS.
- THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH OTHER DISCIPLINES DRAWINGS RELATED TO THE PROJECT FOR OTHER WORK TO BE PROVIDED.
- ANY WORK INSTALLED INCORRECTLY, OR BEFORE APPROVAL HAS BEEN OFFICIALLY GRANTED FOR THOSE ITEMS AT ISSUE, SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO CHARGE TO CLIENT.
- ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND COMPLETELY SERVICEABLE UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH EXISTING CONDITIONS BEFORE STARTING NEW WORK. VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN EQUIPMENT.
- FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTION.
- ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR CONDUIT ROUTING IN THE JOINT TRENCH TO THE ENGINEER AND GET THE APPROVAL PRIOR TO INSTALLATION.
- ALL JOINT TRENCH CONDUIT SHALL COMPLY WITH PD&E GREEN BOOK 2010 STANDARD 55453.
- CONTRACTOR SHALL INSTALL 3/4"x12" GROUND RODS IN ALL PRIMARY SUBSURFACE ENCLOSURES AND 5/8"x10" GROUND RODS IN ALL SECONDARY SUBSURFACE ENCLOSURES. THE RESISTANCE AT THE GROUND ROD SHALL MEET ARTICLE 250.56 NEC.
- ALL CONDUITS SYSTEMS SHALL BE PROVEN BY USING MANDRELS.
- ALL CONDUITS SHALL ENTER AND LEAVE ON THE SIDES OF THE PRIMARY ENCLOSURES.
- PRIMARY AND SECONDARY CONCRETE ENCLOSURES SHOULD NOT BE INSTALLED IN ANY DRIVEWAY AREA(S).
- WEDGE REDUCERS ARE REQUIRED IF THE CONDUIT KNOCKOUTS ARE 6" AND THE CONDUITS ARE 4".
- THE PUE WILL BE SECURED BY OWNER.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	BB	

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 ENGINEERING, INC.
 807 HYDE STREET, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA
 TEL: (415) 772-3400
 FAX: (415) 772-3400

DRAWN BY
 J.S.

DATE



DESIGNED BY
 M.M.

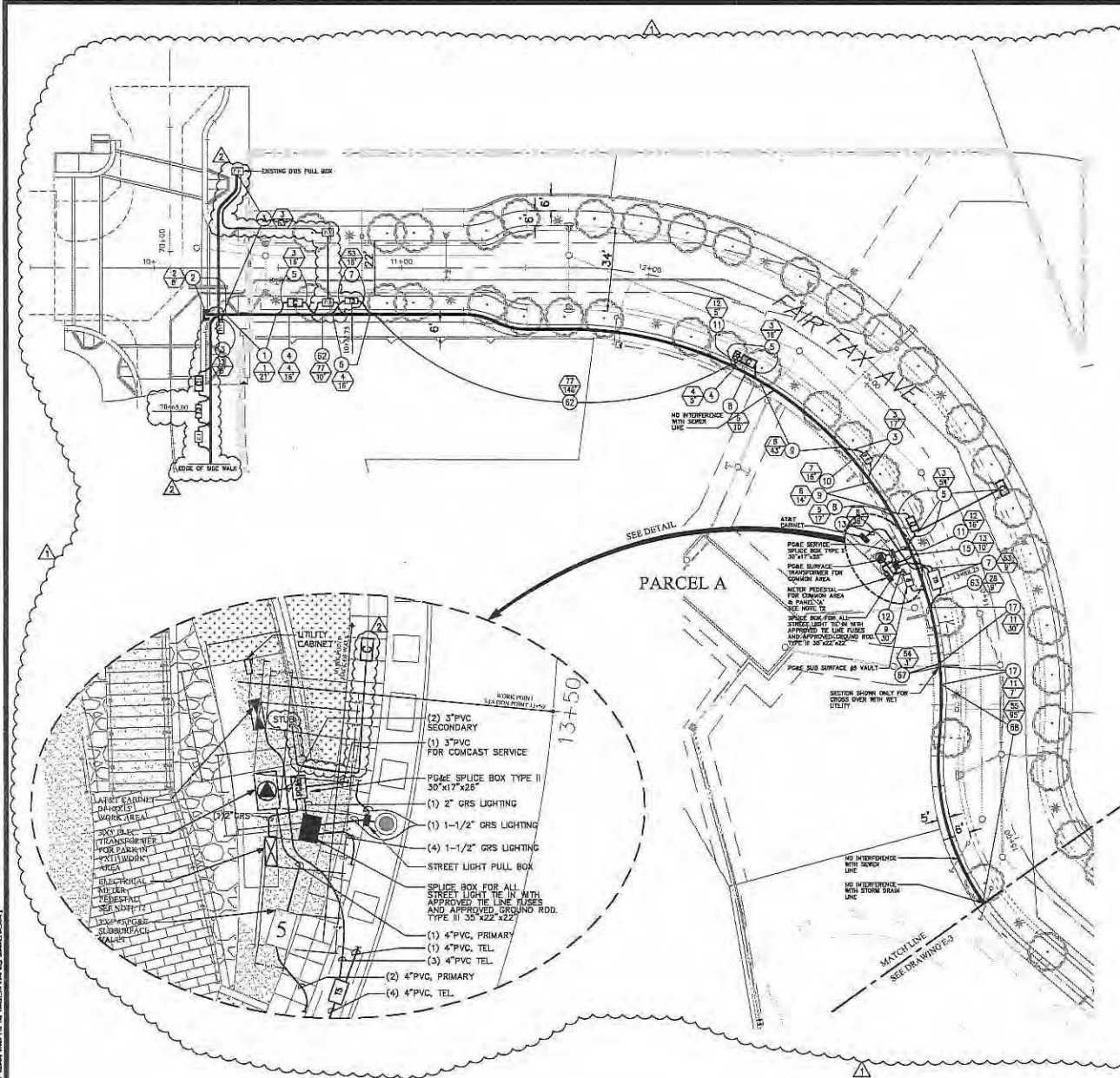
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HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

DRAWING INDEX, ABBREVIATION AND LEGEND

DATE
 SEPT 09, 2011
 JOB NO.
 2007030.A1
 DRAWING NUMBER

E-1



- NOTES**
- REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 - FOR JOINT TRENCH DETAIL, SEE DRAWINGS E-6 THROUGH E-17.
 - FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWING E-5.
 - FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 - FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 - FOR DTIS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 - FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 - FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 - FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 - FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 - FOR METERING PEDESTAL AND PANEL 'A' SEE DRAWING E-15.
 - ELECTRICAL METER PEDESTAL SHALL BE INSTALLED BY PARK CONTRACTOR AND IS NOT PART OF THIS CONTRACT.
 - WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

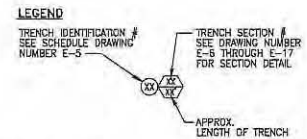
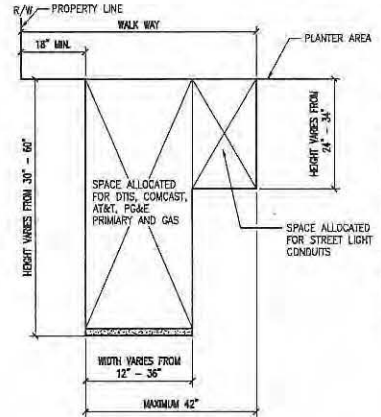


MINIMUM CLEARANCE AND COVER

COND. TYPE	DEPTH	COVER	MIN. CLEARANCE
ELEC. PRIMARY	2"	12"	12"
ELEC. SECONDARY	1"	12"	12"
DRY	12"	12"	12"
TELEPHONE	12"	12"	12"
AIR/POLICE	12"	12"	12"
GAS	12"	12"	12"

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
2"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	
2	7-2013	AS-BUILT	

NBA ENGINEERING, INC.
1877 HAY STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94109
TEL: (415) 702-3840
FAX: (415) 292-8835

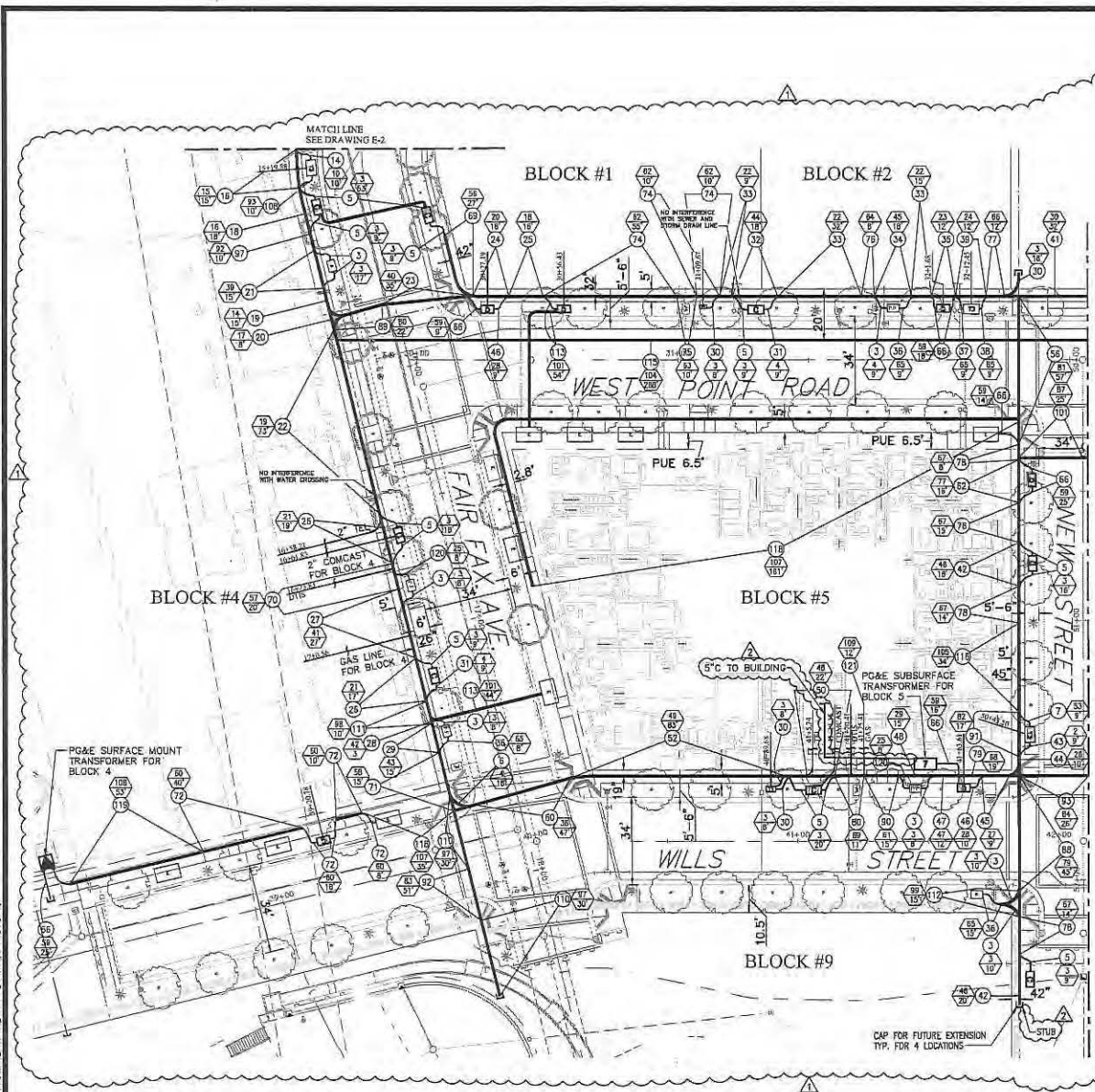
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CHECKED BY: [Signature]
DATE: [Blank]

REVISIONS BY: [Signature]
CHECKED BY: [Signature]
DATE: [Blank]

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA

JOINT TRENCH PLAN

DATE: SEPT 09, 2011
JOB NO: 2007030.A1
DRAWING NUMBER: E-2



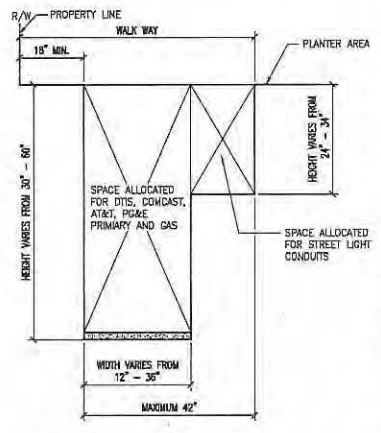
- NOTES**
- REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 - FOR JOINT TRENCH DETAIL SEE DRAWINGS E-6 THROUGH E-17.
 - FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWINGS E-5.
 - FOR LOCATION OF CONDUIT AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 - FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 - FOR DTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 - FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 - FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 - FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 - FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 - FOR METERING PEDestal AND PANEL 'A' SEE DRAWING E-18.
 - WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

MINIMUM CLEARANCE AND COVER

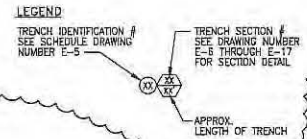
	EP	ES	DAY	TELE	FP	CS	COVER
ELC. PRIMARY	3"	12"	12"	12"	12"	12"	30" - 36" STREET
ELC. SECONDARY	3"	12"	12"	12"	12"	12"	30" - 36" STREET
DAY	12"	12"	1"	1"	12"	12"	30" - 36" STREET
TELEPHONE	12"	12"	1"	1"	12"	12"	30" - 36" STREET
FIRE/POLICE	12"	12"	1"	1"	12"	12"	30" - 36" STREET
CS	12"	6"	12"	12"	12"	12"	24"

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



JOINT TRENCH CONFIGURATION
SCALE: 1"=20'
SCALE: N.T.S.



REVISIONS

NO.	DATE	REVISION	APPR.
12-12-11	12/12/11	REV	
7-2013	7/2013	AS-BUILT	



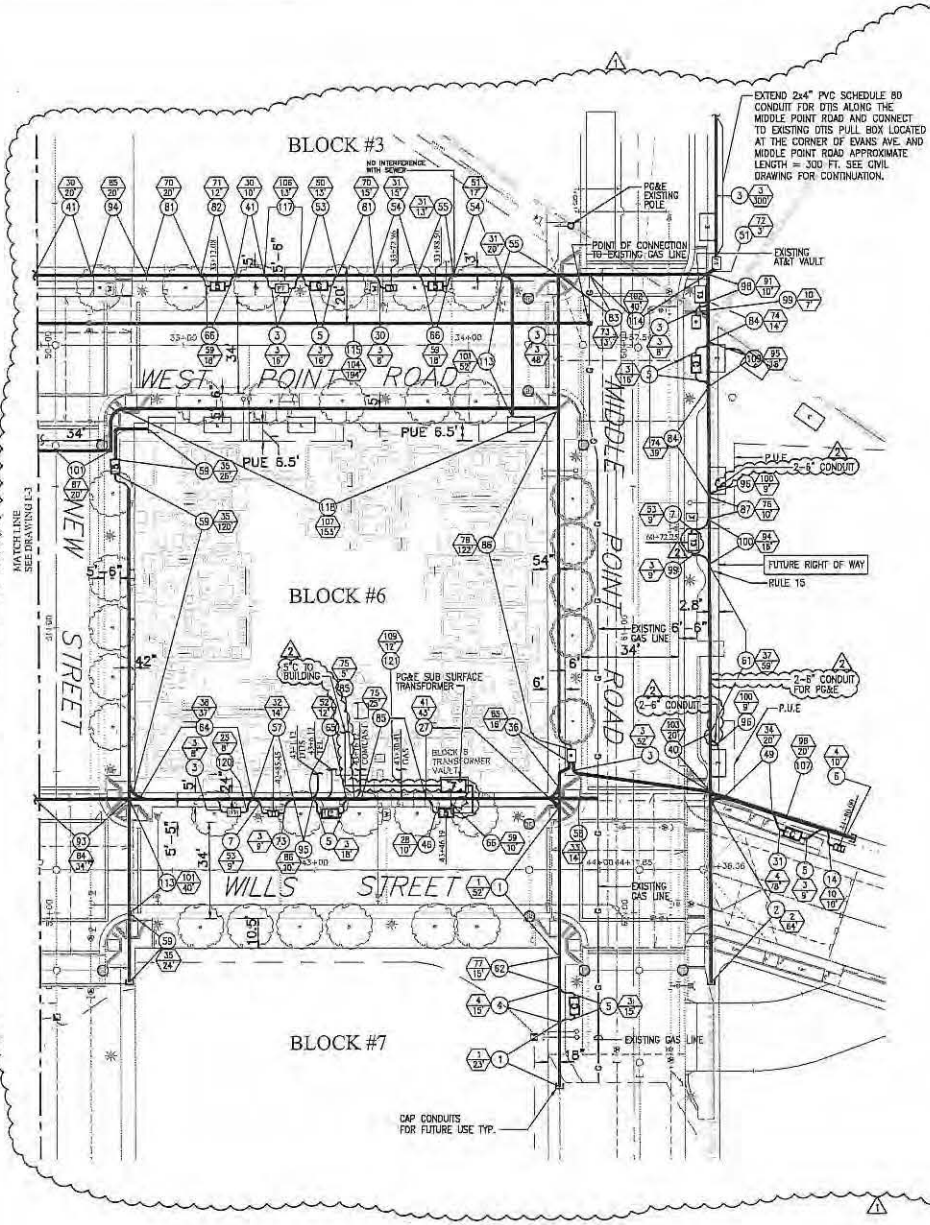
NBA
REGISTERED PROFESSIONAL ENGINEER
300 W. HYDE STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94102
TEL: (415) 242-8940
FAX: (415) 292-8950

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Blank]

ISSUED BY: [Signature]
DATE: [Blank]

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH PLAN

DATE: SEPT 09, 2011
JOB NO: 2007030A1
DRAWING NUMBER: E-3



- NOTES**
1. REFER TO E-1 FOR GENERAL NOTES AND LEGEND.
 2. FOR JOINT TRENCH DETAIL SEE DRAWINGS E-4 THROUGH E-17.
 3. FOR JOINT TRENCH CONDUIT SCHEDULE SEE DRAWINGS E-5.
 4. FOR LOCATION OF COMMON AREA CONDUIT LAYOUT, COMCAST ELECTRICAL POWER, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-19.
 5. FOR LOCATION OF SERVICE TO STREET LIGHTS AND STREET LIGHTS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DWG E-18.
 6. FOR DTIS CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-20.
 7. FOR COMCAST CONDUIT LAYOUT, LOCATION AND SIZE OF ASSOCIATED PULL BOXES SEE DRAWING E-21.
 8. FOR AT&T CONDUIT LAYOUT AND SIZE OF PULL BOXES SEE AT&T DRAWING.
 9. FOR GAS CONDUIT LAYOUT SEE PG&E GAS DRAWING.
 10. FOR ELECTRICAL POWER CONDUIT LAYOUT SEE PG&E ELECTRICAL CONDUIT LAYOUT DRAWING.
 11. FOR METERING PEDESTAL AND PANEL 'A' SEE DRAWING E-19.
 12. WHERE THERE IS AN EXISTING CONFLICT BETWEEN PG&E AND AT&T MINIMUM CLEARANCE, THE MOST RESTRICTIVE CLEARANCE APPLIES.

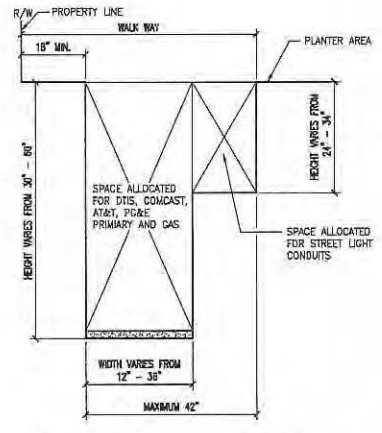


MINIMUM CLEARANCE AND COVER

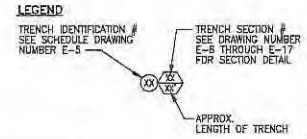
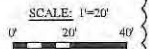
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SIZE: PRIMARY	3"	12"	12"	12"	12"	30"	30" - 30" STREET
SIZE: SECONDARY	3"	12"	12"	6"	6"	10"	10" - 24" STREET
CITY	12"	12"	1"	1"	12"	18"	
TELEPHONE	12"	12"	1"	1"	12"	24"	30" STREET
FIRE/POLICE	12"	12"	1"	1"	12"	24"	30" STREET
GIS	12"	6"	12"	12"	12"	24"	

MINIMUM BEND RADIUS

CONDUIT DIAMETER	VERTICAL BEND	HORIZONTAL BEND
3"	24"	36"
4"	36"	36"
5"	36"	60"
6"	60"	60"



JOINT TRENCH CONFIGURATION
SCALE: N.T.S.



REVISIONS

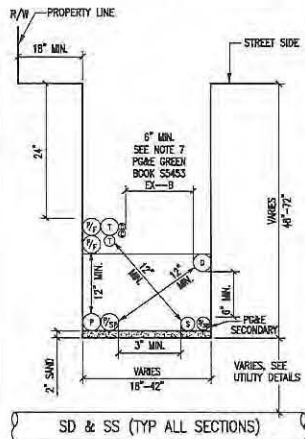
NO.	DATE	REVISION	APPR.
1	12-12-11	SB	
2	7-2012	AS-BALT	

NBA ENGINEERING, INC.
 803 HYDE STREET, SUITE 1000
 SAN FRANCISCO, CA 94109
 TEL: (415) 392-8528
 FAX: (415) 392-8528

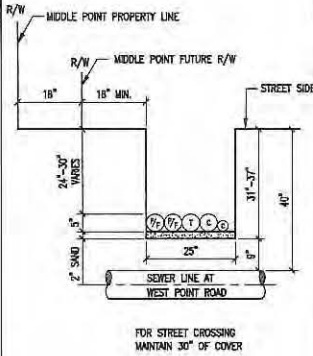
DESIGNED BY: A.L.
 CHECKED BY: [Signature]
 DATE: [Blank]

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH PLAN

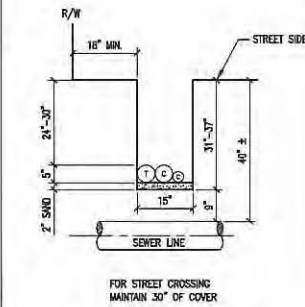
DATE: SEPT 09, 2011
 JOB NO.: 2007030_A1
 DRAWING NUMBER:
E-4



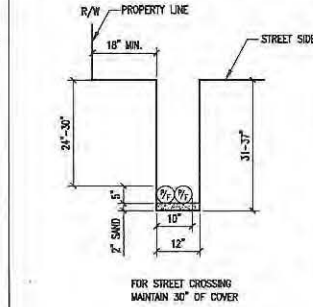
1A TYPICAL JOINT TRENCH DETAIL N.T.S.



1 JOINT TRENCH DETAIL N.T.S.



2 JOINT TRENCH DETAIL N.T.S.



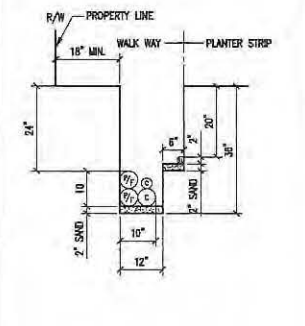
3 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

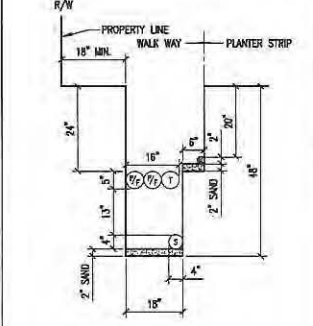
1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 8" BELOW THE WATER LINE.
4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

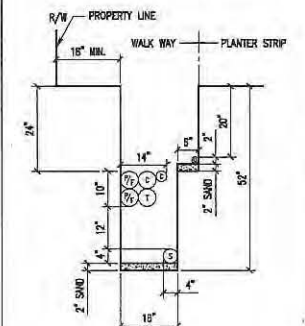
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



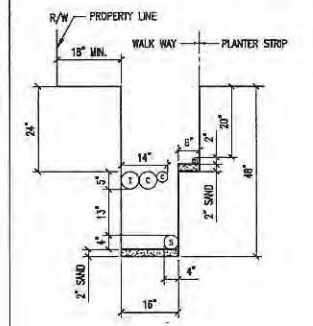
4 JOINT TRENCH DETAIL N.T.S.



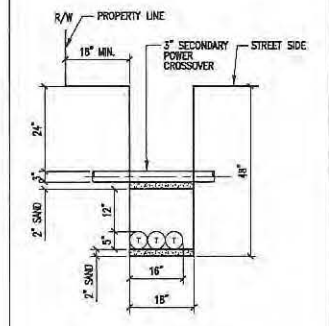
5 JOINT TRENCH DETAIL N.T.S.



6 JOINT TRENCH DETAIL N.T.S.



7 JOINT TRENCH DETAIL N.T.S.



8 JOINT TRENCH DETAIL N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

ENGINEERING INC.
 897 HYDE STREET, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA 94102
 TEL: (415) 302-8846
 FAX: (415) 302-8828

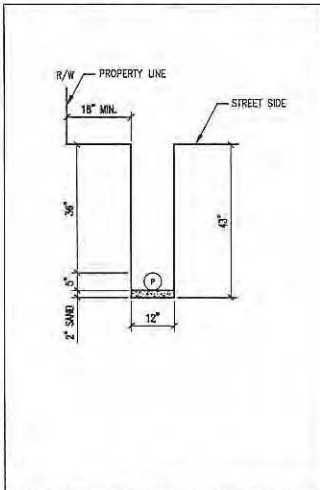
DRAWN BY: A.S.
 CHECKED BY: []
 DATE: []

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
 JOINT TRENCH DETAILS

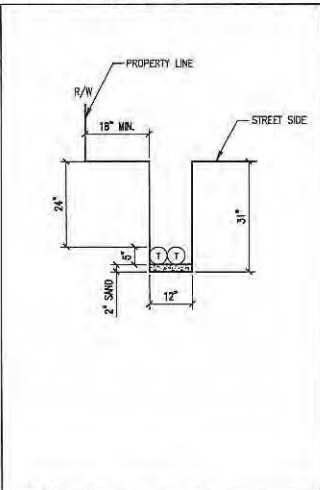
DATE: SEPT 08, 2011
 JOB NO: 0007030.A1
 DRAWING NUMBER:
E-6

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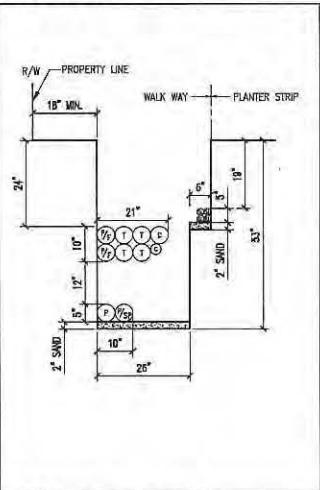
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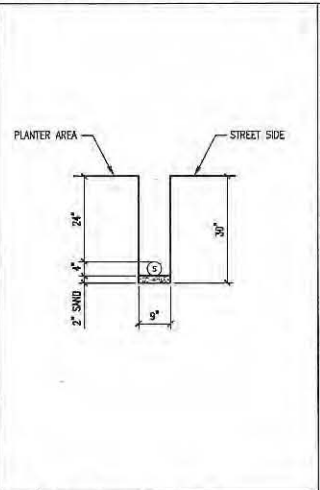
9 JOINT TRENCH DETAIL N.T.S.



10 JOINT TRENCH DETAIL N.T.S.



11 JOINT TRENCH DETAIL N.T.S.



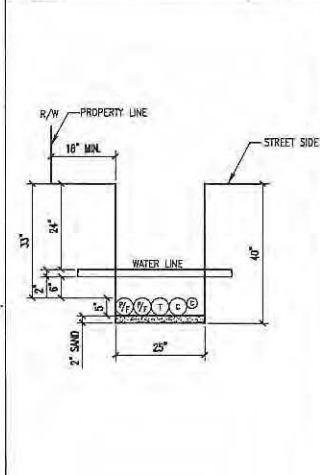
12 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

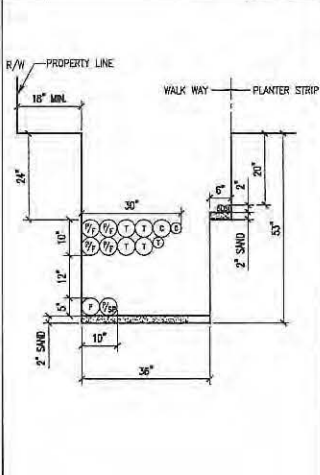
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

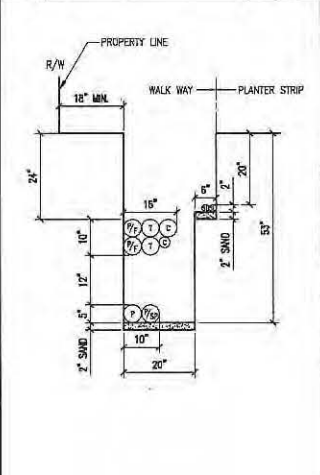
P = PRIMARY CONDUIT 4" OR 6"
 P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
 S = SECONDARY CONDUIT 3"
 S/SP = SECONDARY SPARE CONDUIT 3"
 SL = STREET LIGHT CONDUIT 1.5"
 T = AT&T CONDUIT 4" OR 2"
 C = COMCAST CONDUIT 4" OR 2"
 P/F = POLICE AND FIRE (DIS) CONDUIT 4"
 G = GAS CONDUIT 4" OR 2"



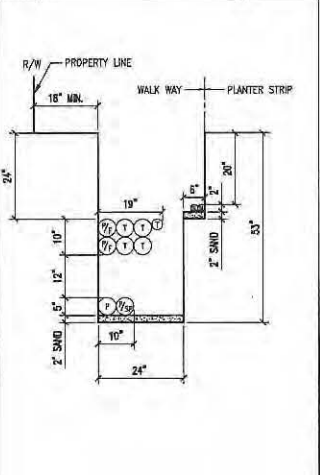
13 JOINT TRENCH DETAIL N.T.S.



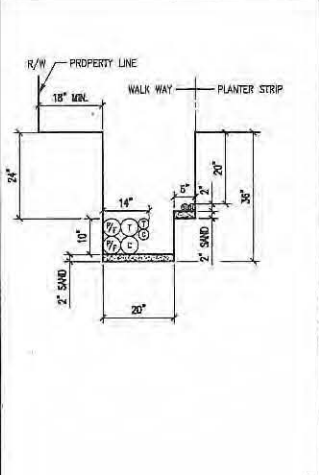
14 JOINT TRENCH DETAIL N.T.S.



15 JOINT TRENCH DETAIL N.T.S.



16 JOINT TRENCH DETAIL N.T.S.



17 JOINT TRENCH DETAIL N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

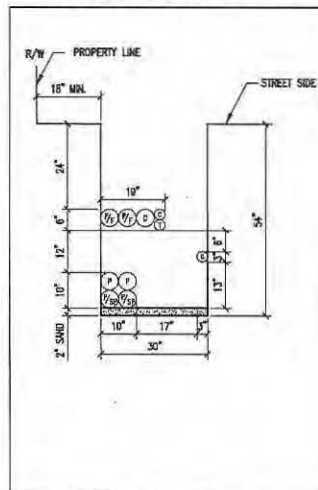
NBA
ENGINEERING, INC.
 687 HYDE STREET, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA 94109
 TEL: (415) 772-5100
 FAX: (415) 772-6225

DRAWN BY: JAL
 CHECKED BY: []
 DATE: []

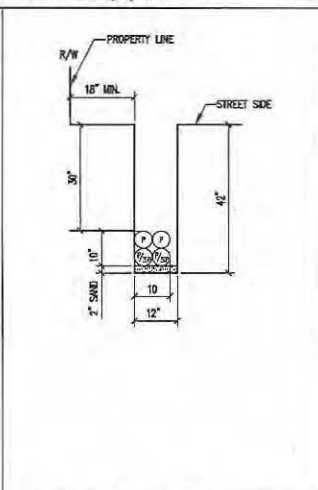
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER: E-7

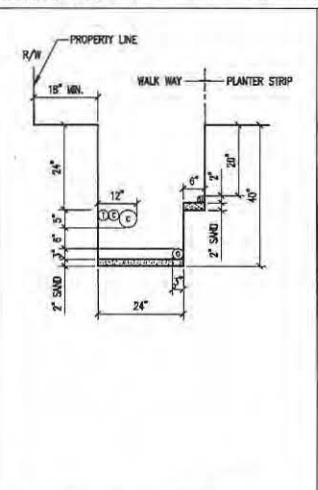
1/8"=1'-0" (AS SHOWN) UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE ALTERNATE DIMENSIONS.



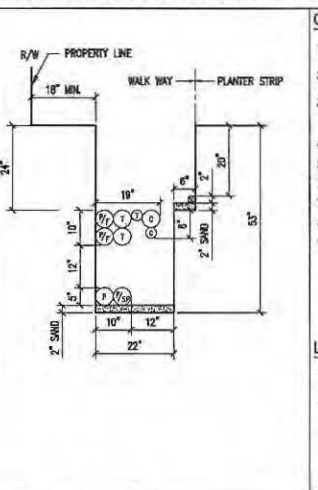
27 JOINT TRENCH DETAIL N.T.S.



28 JOINT TRENCH DETAIL N.T.S.



29 JOINT TRENCH DETAIL N.T.S.



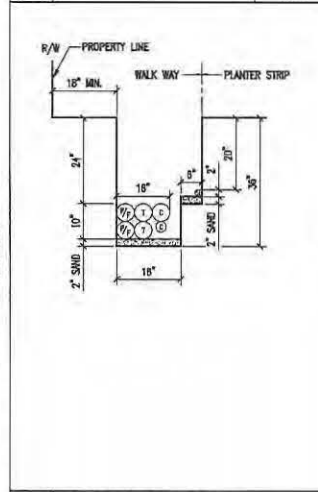
30 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

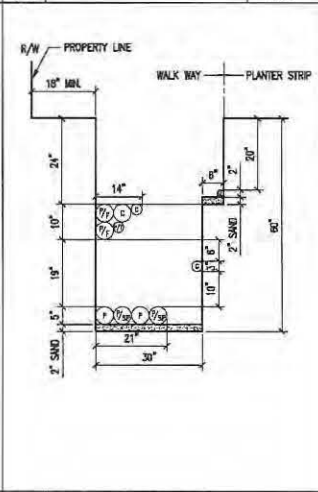
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

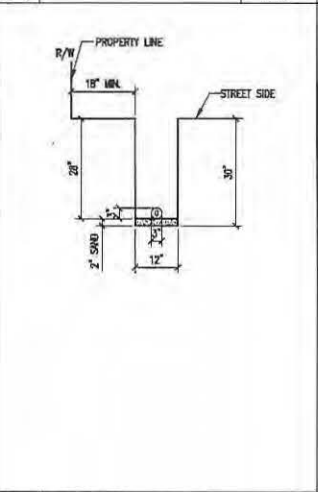
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
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- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



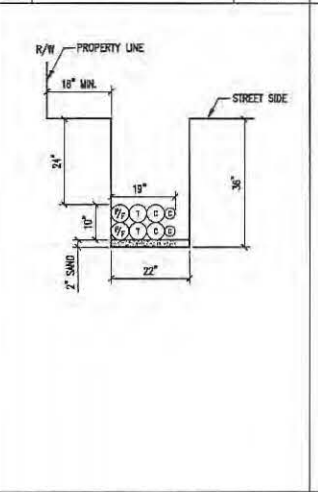
31 JOINT TRENCH DETAIL N.T.S.



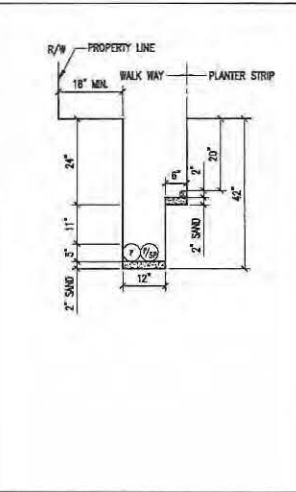
32 JOINT TRENCH DETAIL N.T.S.



33 JOINT TRENCH DETAIL N.T.S.



34 JOINT TRENCH DETAIL N.T.S.



35 JOINT TRENCH DETAIL N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11		



ENGINEERING INC.
 807 HAY STREET, SECOND FLOOR
 SAN FRANCISCO, CA 94103
 SAN FRANCISCO, CA 94103
 FAX: (415) 732-9330

DRAWN BY: A.L.
 CHECKED BY:

DATE:



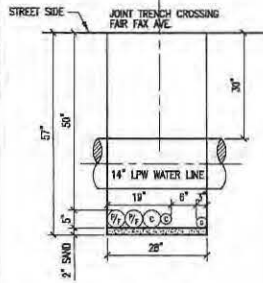
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO: 2007030.A1
 DRAWING NUMBER:

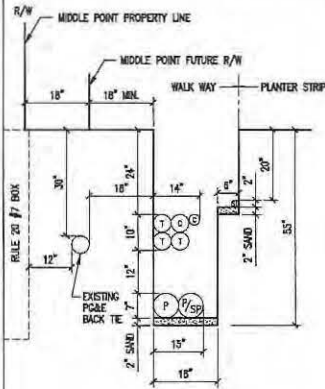
E-9

NOTE:
DISTRIBUTION FACILITIES OCCUR
UNDER THIS TRENCH SECTION
FOR ONLY A PORTION OF THIS
LENGTH, AT THE WEST END.



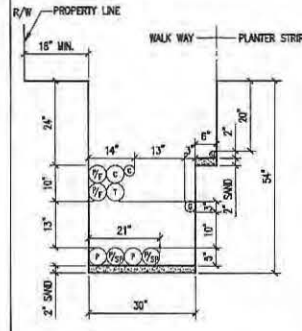
36 JOINT TRENCH DETAIL

N.T.S.



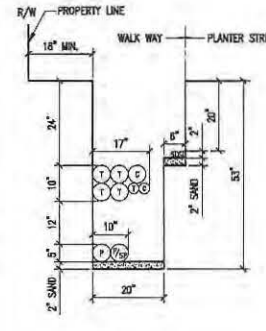
37 JOINT TRENCH DETAIL

N.T.S.



38 JOINT TRENCH DETAIL

N.T.S.



39 JOINT TRENCH DETAIL

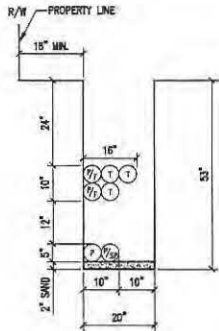
N.T.S.

GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM 6\"/>

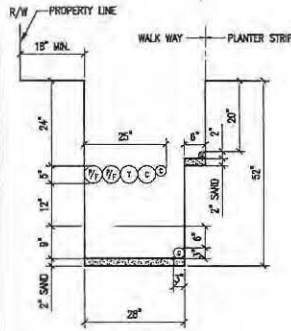
LEGEND:

- P = PRIMARY CONDUIT 4\"/>
- P/SP = PRIMARY SPARE CONDUIT 4\"/>
- S = SECONDARY CONDUIT 3\"/>
- S/SP = SECONDARY SPARE CONDUIT 3\"/>
- SL = STREET LIGHT CONDUIT 1.5\"/>
- T = AT&T CONDUIT 4\"/>
- C = COMCAST CONDUIT 4\"/>
- P/F = POLICE AND FIRE (OTIS) CONDUIT 4\"/>
- G = GAS CONDUIT 4\"/>



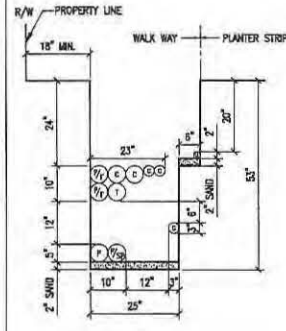
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N.T.S.



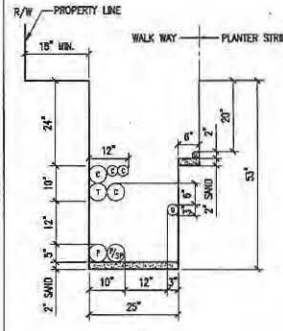
41 JOINT TRENCH DETAIL

N.T.S.



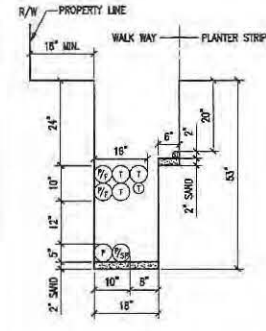
42 JOINT TRENCH DETAIL

N.T.S.



43 JOINT TRENCH DETAIL

N.T.S.



44 JOINT TRENCH DETAIL

N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	BB	

NBA
ENGINEERING, INC.
SAN FRANCISCO OFFICE
837 HAYES STREET, SECOND FLOOR
SAN FRANCISCO, CA 94109
TEL: (415) 774-8800
FAX: (415) 774-8834

DRAWN BY: A.T.
DATE: _____

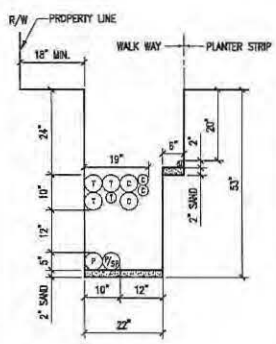


DESIGNED BY: _____
CHECKED BY: _____

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

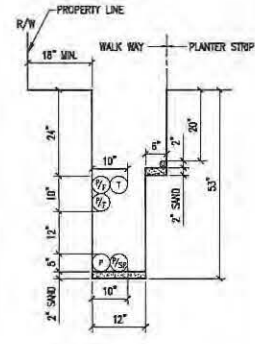
DATE: SEPT 09, 2011
JOB NO.: 2007030-A1
DRAWING NUMBER:

HUNTERS VIEW PHASE 1 INFRASTRUCTURE SAN FRANCISCO, CALIFORNIA
 DRAWING NO. E-11
 DATE: 09/09/2011
 PROJECT: HUNTERS VIEW PHASE 1 INFRASTRUCTURE SAN FRANCISCO, CALIFORNIA
 DRAWING NO. E-11



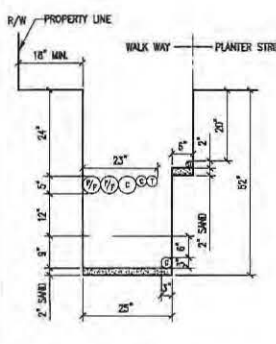
45 JOINT TRENCH DETAIL

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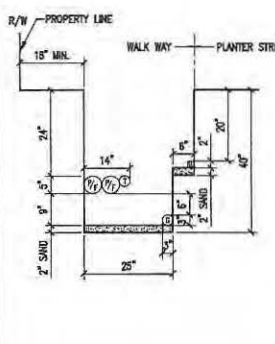
46 JOINT TRENCH DETAIL

N.T.S.



47 JOINT TRENCH DETAIL

N.T.S.



48 JOINT TRENCH DETAIL

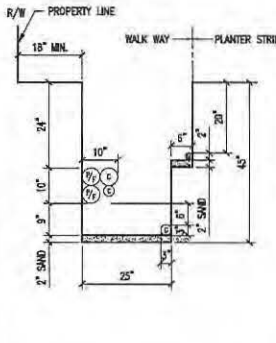
N.T.S.

GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
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4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

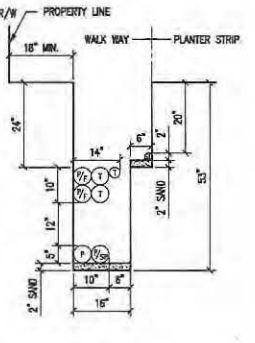
LEGEND:

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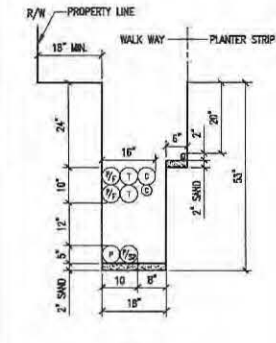
49 JOINT TRENCH DETAIL

N.T.S.



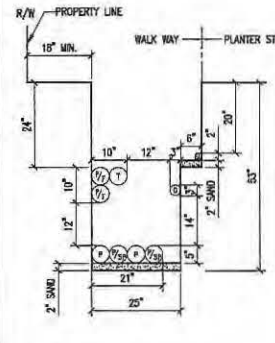
50 JOINT TRENCH DETAIL

N.T.S.



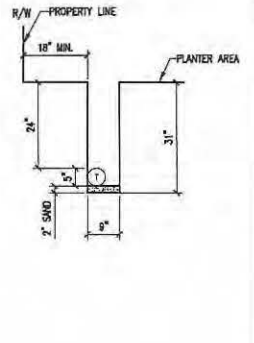
51 JOINT TRENCH DETAIL

N.T.S.



52 JOINT TRENCH DETAIL

N.T.S.



53 JOINT TRENCH DETAIL

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	ISS	

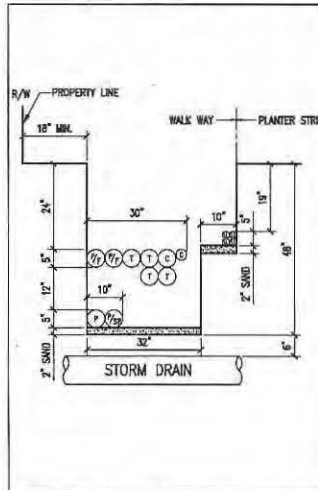
NBA
ENGINEERING CONSULTING & ARCHITECTURE
887 HUNTERS STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94103
TEL: (415) 392-8840
FAX: (415) 392-8838

DESIGNED BY: [] DATE: []
 DRAWN BY: [] DATE: []
 CHECKED BY: [] DATE: []
 APPROVED BY: [] DATE: []

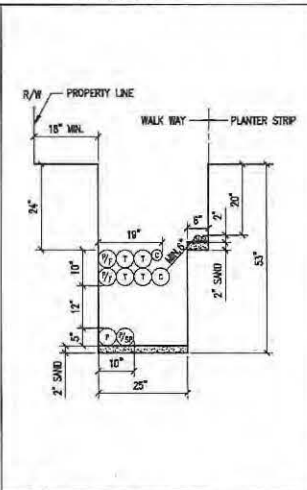
HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO: 2007030.A1
 DRAWING NUMBER: **E-11**

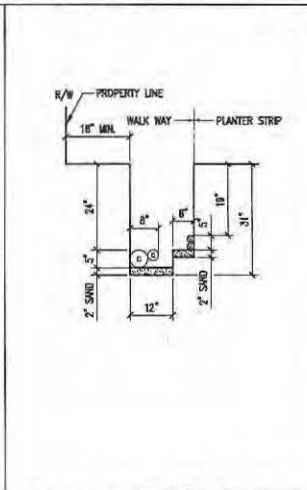
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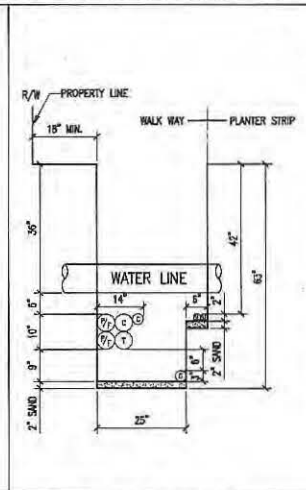
54 JOINT TRENCH DETAIL N.T.S.



55 JOINT TRENCH DETAIL N.T.S.



56 JOINT TRENCH DETAIL N.T.S.



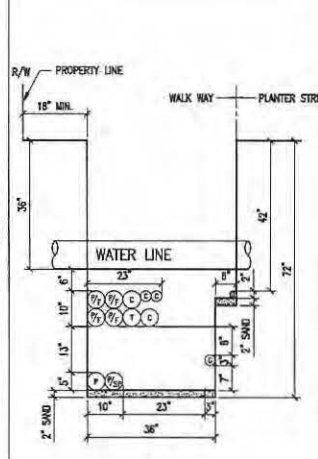
57 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

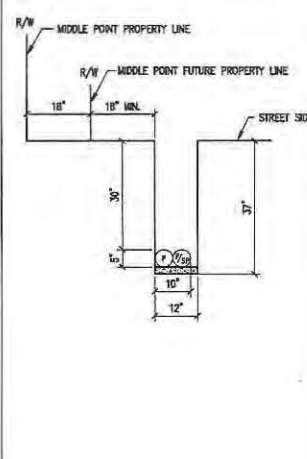
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
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- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

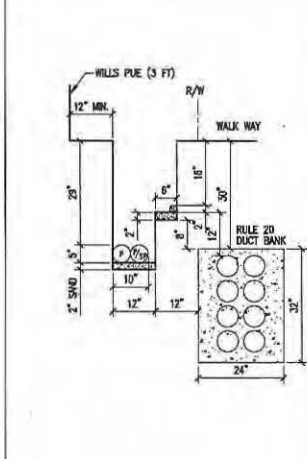
P = PRIMARY CONDUIT 4" OR 6"
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 S = SECONDARY CONDUIT 3"
 S/SP = SECONDARY SPARE CONDUIT 3"
 SL = STREET LIGHT CONDUIT 1.5"
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 P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
 G = GAS CONDUIT 4" OR 2"



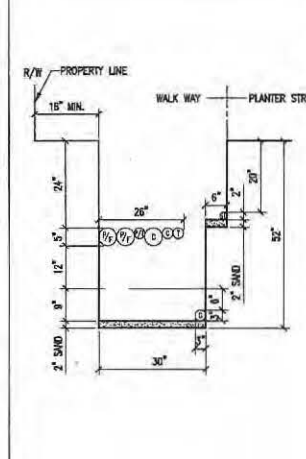
58 JOINT TRENCH DETAIL N.T.S.



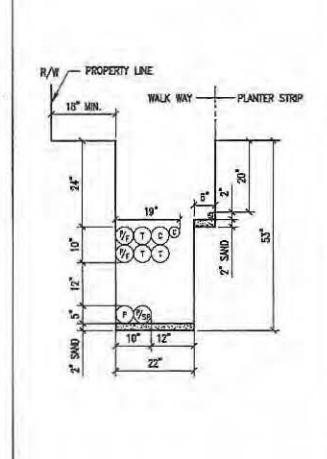
59 JOINT TRENCH DETAIL N.T.S.



60 JOINT TRENCH DETAIL N.T.S.



61 JOINT TRENCH DETAIL N.T.S.



62 JOINT TRENCH DETAIL N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-12-11	BB	

ENGINEERING, INC.
 877 IVES STREET, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA 94109
 TEL: (415) 302-8400
 FAX: (415) 297-8530

DESIGNED BY: []
 CHECKED BY: []

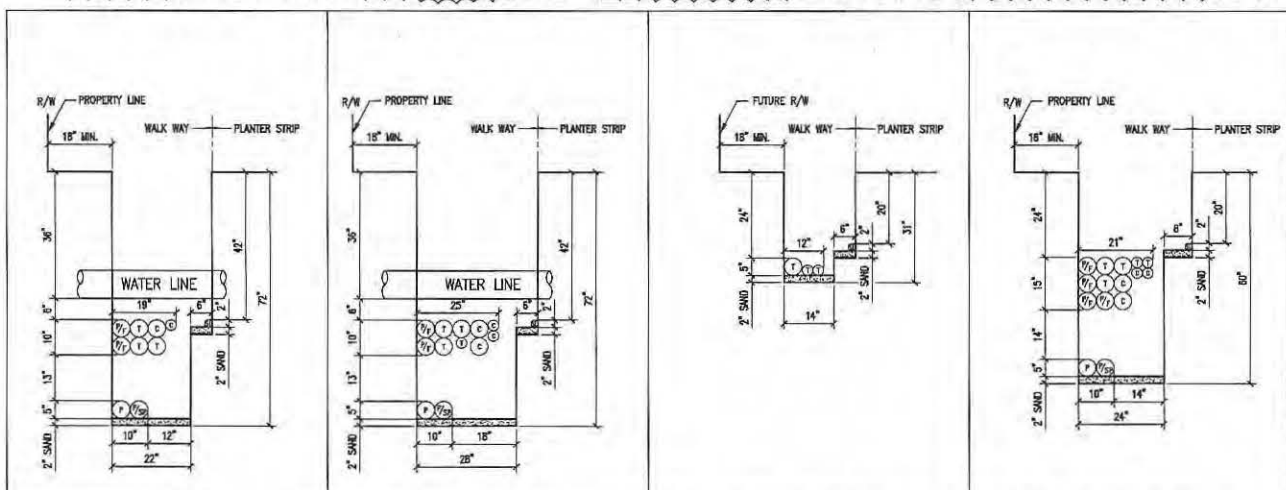
DRAWN BY: []
 DATE: []

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
 STREET LIGHT & COMMON AREA
 JOINT TRENCH DETAILS

DATE: SEPT 08, 2011
 JOB NO.: 2007030.A1
 DRAWING NUMBER: E-12

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ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN BRACKETS ARE FOR FIELD ADJUSTMENT.



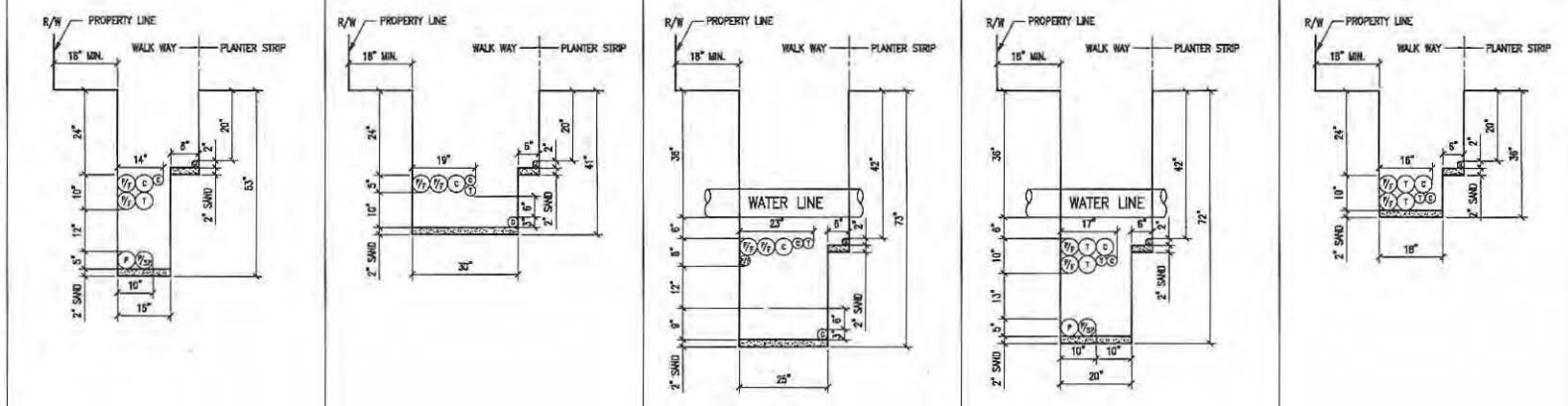
63 JOINT TRENCH DETAIL N.T.S.
 64 JOINT TRENCH DETAIL N.T.S.
 65 JOINT TRENCH DETAIL N.T.S.
 66 JOINT TRENCH DETAIL N.T.S.

GENERAL NOTES:

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2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
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4. REFER TO E-16 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR DTIS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO POSE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

- P = PRIMARY CONDUIT 4" OR 5"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 5"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



67 JOINT TRENCH DETAIL N.T.S.
 68 JOINT TRENCH DETAIL N.T.S.
 69 JOINT TRENCH DETAIL N.T.S.
 70 JOINT TRENCH DETAIL N.T.S.
 71 JOINT TRENCH DETAIL N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	09	

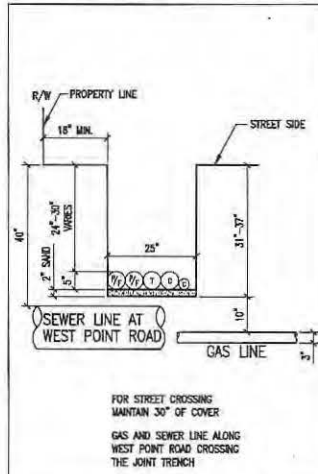
NBA
ENGINEERING, INC.
 887 HUGH STREET, SECOND FLOOR
 SAN FRANCISCO, CA 94109
 TEL: (415) 774-8800
 FAX: (415) 774-8808

DRAWN BY: _____ DATE: _____
 CHECKED BY: _____

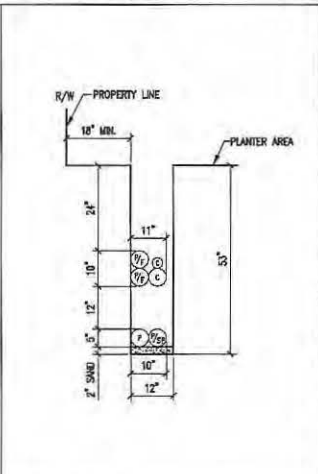
DESIGNED BY: _____ CHECKED BY: _____
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO.: 20070330A1
 DRAWING NUMBER:
E-13

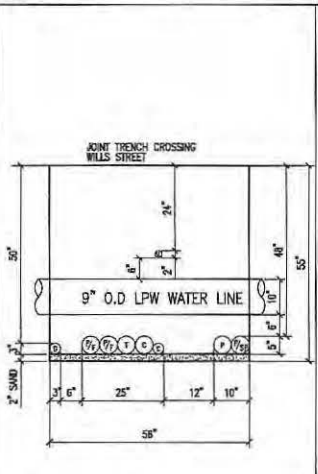
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE TRENCH UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE CONDUIT UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE TRENCH UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE CONDUIT UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE TRENCH UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE CONDUIT UNLESS OTHERWISE SPECIFIED.



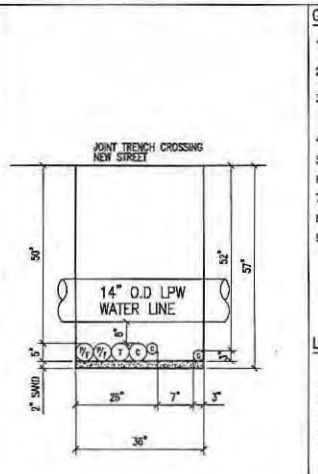
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82 JOINT TRENCH DETAIL N.T.S.



83 JOINT TRENCH DETAIL N.T.S.



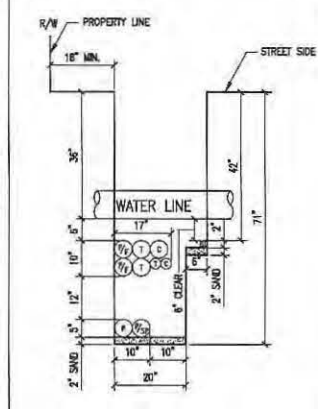
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GENERAL NOTES:

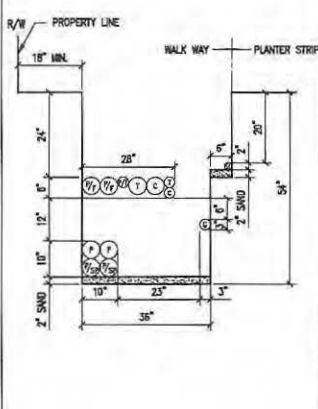
- REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
- REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
- ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
- REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
- REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
- REFER TO E-20 FOR OTIS CONDUIT LAYOUT.
- REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
- REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
- REFER TO P&BE DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

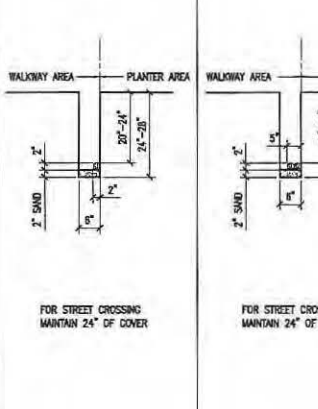
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (OTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



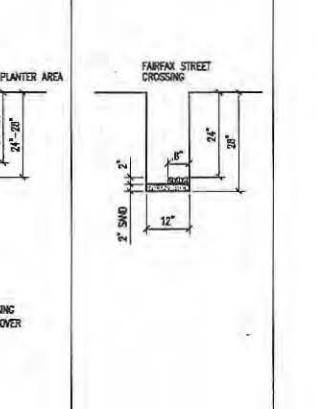
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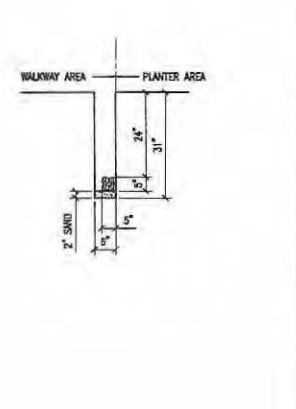
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87 JOINT TRENCH DETAIL N.T.S.



88 JOINT TRENCH DETAIL N.T.S.



89 JOINT TRENCH DETAIL N.T.S.

REVISIONS			
NO.	DATE	REVISION	APPR.
1	12-11	89	



ENGINEERING, INC.
 877 HUNTERS VIEW, SECOND FLOOR
 SAN FRANCISCO, CALIFORNIA 94107
 TEL: (415) 502-1800
 FAX: (415) 502-1830

DRAWN BY: JLL
 CHECKED BY:

DATE:



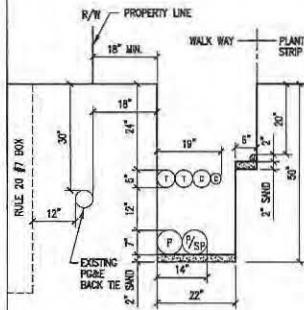
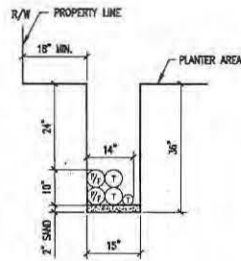
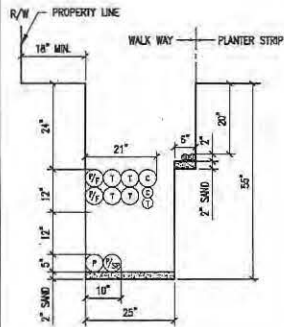
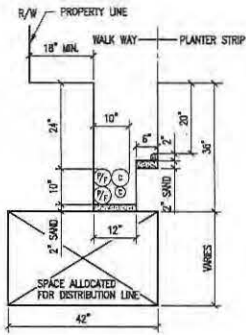
DESIGNED BY: JLL
 CHECKED BY:

DATE:

HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA

JOINT TRENCH DETAILS

E-15



GENERAL NOTES:

1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM OF 6" BELOW THE WATER LINE.
4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT
6. REFER TO E-20 FOR DTIS CONDUIT LAYOUT
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT
8. REFER TO AT&T DRAWINGS FOR TELEPHONE CONDUIT LAYOUT
9. REFER TO PG&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT

LEGEND:

- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTIS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"

91 JOINT TRENCH DETAIL

N.T.S.

92 JOINT TRENCH DETAIL

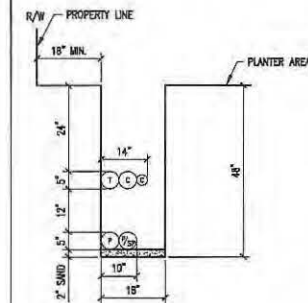
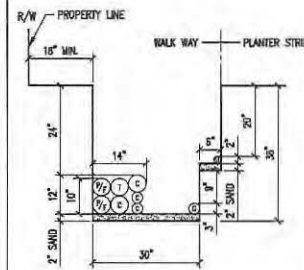
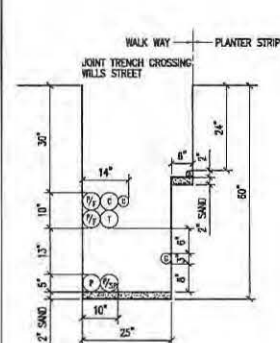
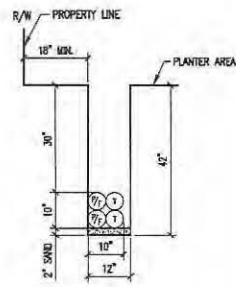
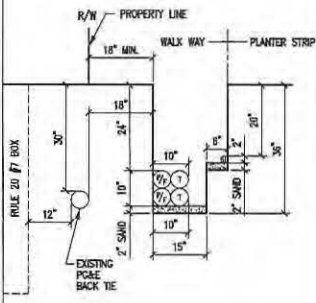
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93 JOINT TRENCH DETAIL

N.T.S.

94 JOINT TRENCH DETAIL

N.T.S.



95 JOINT TRENCH DETAIL

N.T.S.

96 JOINT TRENCH DETAIL

N.T.S.

97 JOINT TRENCH DETAIL

N.T.S.

98 JOINT TRENCH DETAIL

N.T.S.

99 JOINT TRENCH DETAIL

N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11		

NBA
ENGINEERING INC.
 807 HIVE STREET, SECOND FLOOR
 SAN FRANCISCO, CA 94103
 TEL: (415) 207-1840
 FAX: (415) 207-1838

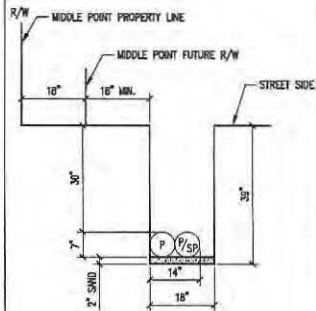


DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

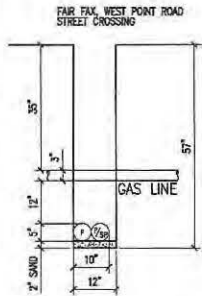
HUNTERS VIEW
 PHASE 1 INFRASTRUCTURE
 SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
 JOB NO: 1007030.A1
 DRAWING NUMBER:
E-16

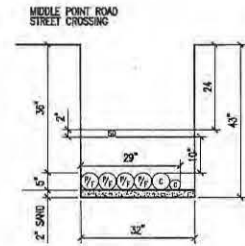
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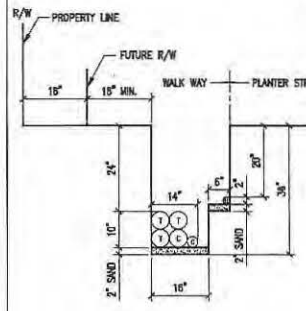
100 JOINT TRENCH DETAIL
N.T.S.



101 JOINT TRENCH DETAIL
N.T.S.



102 JOINT TRENCH DETAIL
N.T.S.



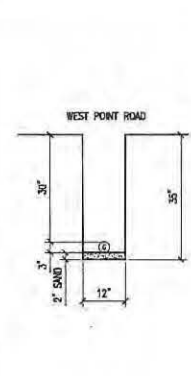
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N.T.S.

GENERAL NOTES:

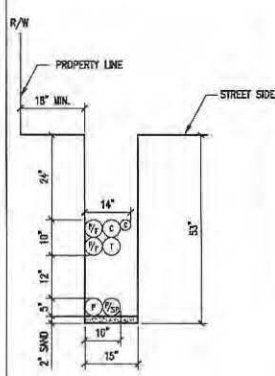
1. REFER TO DWG. NO. E-5 FOR JOINT TRENCH CONDUIT SCHEDULE.
2. REFER TO DWG. NO. E-2 THRU E-4 FOR JOINT TRENCH CONDUIT LAYOUT AND CLEARANCE.
3. ALL ELECTRICAL AND TELECOMMUNICATION CONDUITS IN JOINT TRENCH CROSSING THE WATER LINE SHALL BE INSTALLED MINIMUM 12" BELOW THE WATER LINE.
4. REFER TO E-18 FOR STREET LIGHT CONDUIT LAYOUT.
5. REFER TO E-19 FOR COMMON AREA POWER CONDUIT LAYOUT.
6. REFER TO E-20 FOR DTS CONDUIT LAYOUT.
7. REFER TO E-21 FOR COMCAST CONDUIT LAYOUT.
8. REFER TO AT&T DRAWING FOR TELEPHONE CONDUIT LAYOUT.
9. REFER TO P&E DRAWINGS FOR GAS AND ELECTRICAL POWER CONDUIT LAYOUT.

LEGEND:

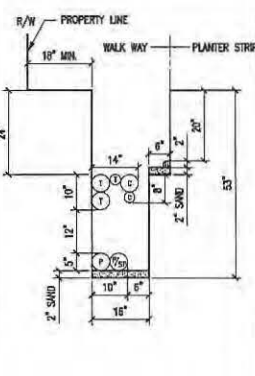
- P = PRIMARY CONDUIT 4" OR 6"
- P/SP = PRIMARY SPARE CONDUIT 4" OR 6"
- S = SECONDARY CONDUIT 3"
- S/SP = SECONDARY SPARE CONDUIT 3"
- SL = STREET LIGHT CONDUIT 1.5"
- T = AT&T CONDUIT 4" OR 2"
- C = COMCAST CONDUIT 4" OR 2"
- P/F = POLICE AND FIRE (DTS) CONDUIT 4"
- G = GAS CONDUIT 4" OR 2"



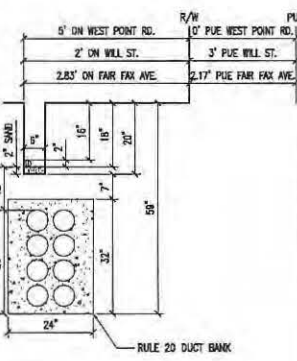
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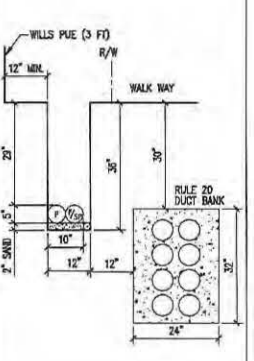
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N.T.S.



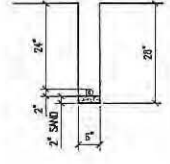
106 JOINT TRENCH DETAIL
N.T.S.



107 JOINT TRENCH DETAIL
N.T.S.



108 JOINT TRENCH DETAIL
N.T.S.



109 JOINT TRENCH DETAIL
N.T.S.

REVISIONS

NO.	DATE	REVISION	APPR.
1	12-11	BP	

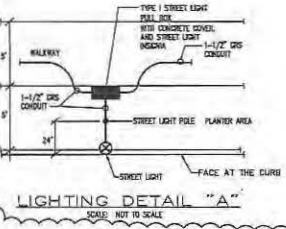
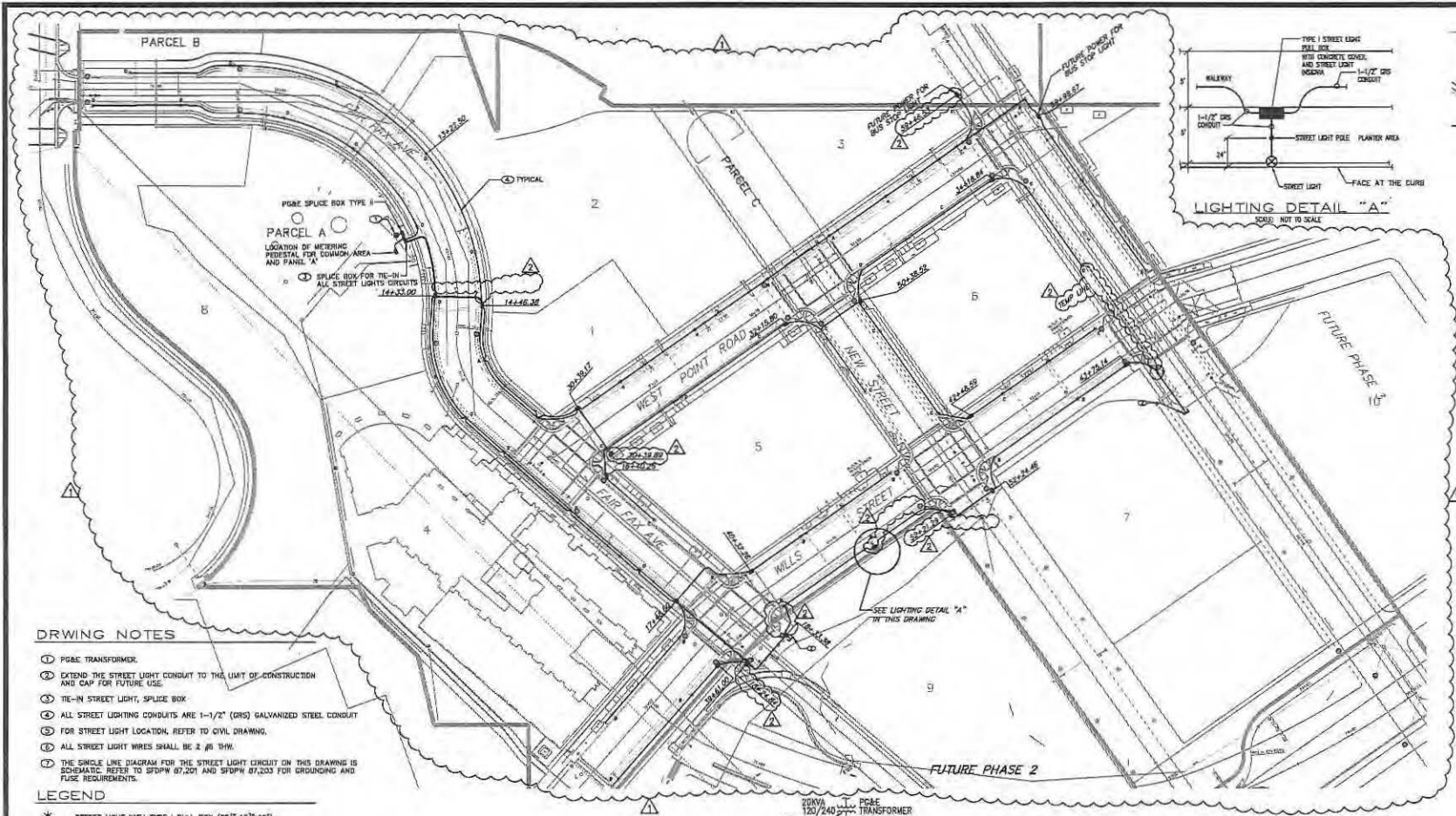
NBA
ENGINEERING CONSULTING
807 AVARE STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA
TEL: (415) 762-8140
FAX: (415) 762-8138

DESIGNED BY: FSN
CHECKED BY: []
DATE: []

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
JOINT TRENCH DETAILS

DATE: SEPT 09, 2011
JOB NO.: 2007030.41
DRAWING NUMBER

E-17

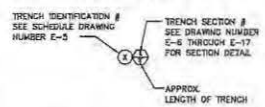


DRWING NOTES

- ⊕ POLE TRANSFORMER
- ⊕ EXTEND THE STREET LIGHT CONDUIT TO THE LIMIT OF CONSTRUCTION AND CAP FOR FUTURE USE
- ⊕ TE-IN STREET LIGHT, SPLICE BOX
- ⊕ ALL STREET LIGHTING CONDUITS ARE 1-1/2" (GRS) GALVANIZED STEEL CONDUIT
- ⊕ FOR STREET LIGHT LOCATION, REFER TO CIVIL DRAWING
- ⊕ ALL STREET LIGHT WIRES SHALL BE 2 #16 THW
- ⊕ THE SINGLE LINE DIAGRAM FOR THE STREET LIGHT CIRCUIT ON THIS DRAWING IS SCHEMATIC. REFER TO SFDPW 87,201 AND SFDPM 87,203 FOR GROUNDING AND FUSE REQUIREMENTS.

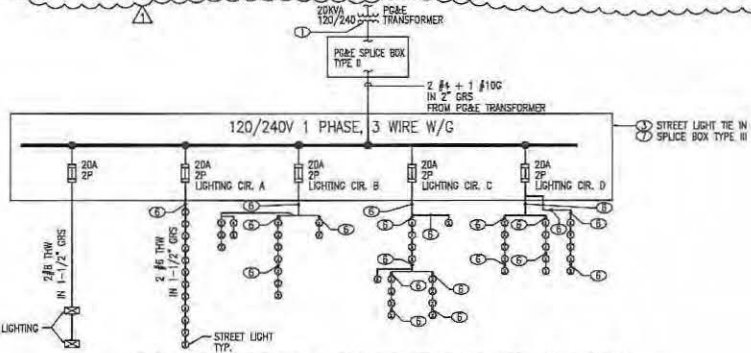
LEGEND

- * STREET LIGHT WITH TYPE I PULL BOX (25" x 15" x 12")
- POLE TRANSFORMER
- ELECTRICAL PULL BOX TYPE II (24" x 22" x 22")
- ⊕ STREET LIGHT BOX TYPE I (25" x 15" x 12")
- ⊕ POLE SPLICE BOX TYPE II (30" x 17" x 28")

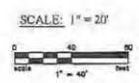


STREET LIGHT GENERAL NOTES

1. STREET LIGHT POLES SHALL BE CENTERED 24" FROM FACE OF CURB.
2. STREET LIGHTS BASED ON BDC/DPM STANDARD PLAN 87,212.
3. PULL BOXES ARE REQUIRED ON BOTH SIDES OF EACH STREET CROSSING.
4. PULL BOXES SHALL BE PRECAST AND PER BDC/DPM STANDARD PLAN 87,201.
5. ELECTRICAL INFO SHOWN ON THIS PLAN IS FOR BIDDING PURPOSE ONLY. REFER TO DRAWING ES FOR CONDUIT SCHEDULE.



SINGLE LINE DIAGRAM FOR STREET LIGHT CIRCUIT
N.T.S.



REVISIONS

NO.	DATE	REVISION	APPR.
12-12-11	11/6		
7-2013	AS-03/17		

NBA
NORTH BAY AREA
ENGINEERING & ARCHITECTURE
827 HYDE STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94109
TEL: (415) 302-8100
FAX: (415) 302-8105

DESIGNED BY: **AL.T.**
CHECKED BY: **DATE:**

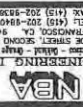
HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA

ELECTRICAL LIGHTING CONDUIT LAYOUT

DATE: **SEPT 09, 2011**
JOB NO: **2007030.A1**
DRAWING NUMBER: **E-18**

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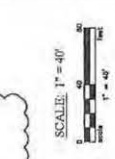
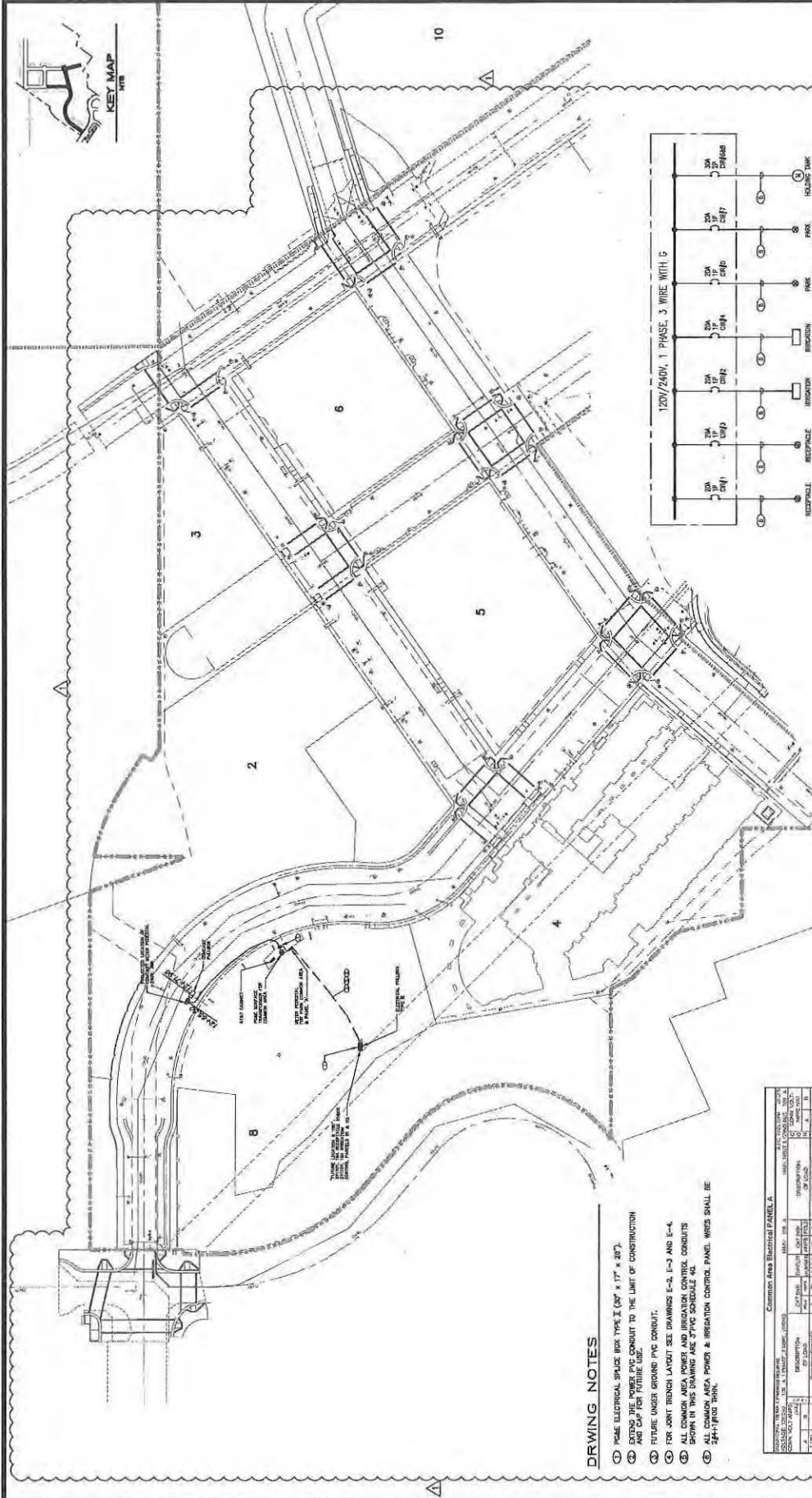
ENGINEERING INC.
 877 HIRE STREET, SECOND FLOOR
 SAN FRANCISCO, CA 94103
 TEL: (415) 202-1840
 FAX: (415) 202-8935



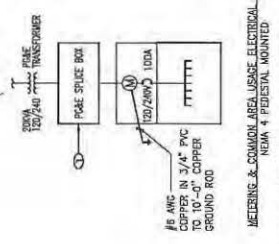
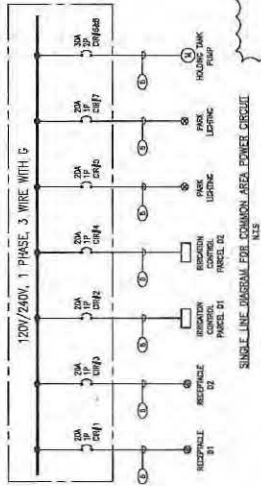
DATE _____
 DRAWN BY _____
 CHECKED BY _____
 E-19

COMMON AREA POWER CONDUIT LAYOUT
 PHASE 1 INFRASTRUCTURE
 HUNTERS VIEW
 SAN FRANCISCO, CALIFORNIA

DATE: SEP 09, 2011
 JOB NO.: 1107030111
 DRAWING NUMBER: E-19



NO.	DATE	REVISION	APPR.
1	12-15-11		



8 AWG COPPER IN 3/4" PVC TO 10-0' COPPER GROUND ROD
 METERING & COMMON AREA USE ELECTRICAL PANEL 'X'
 NEMA 4 PEDestal MOUNTED

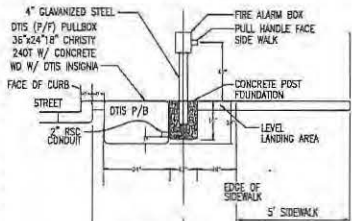
- DRAWING NOTES**
1. PHASE ELECTRICAL SPICE BOX TYPE II (30" x 17" x 20"). EXTEND THE POWER PVC CONDUIT TO THE LIMIT OF CONSTRUCTION AND CAP FOR FUTURE USE.
 2. FUTURE UNDER GROUND PVC CONDUIT.
 3. FOR JOINT TRENCH LAYOUT SEE DRAWINGS E-2, E-3 AND E-4.
 4. ALL COMMON AREA POWER AND IRRIGATION CONTROL CONDUITS SHOWN IN THIS DRAWING ARE 3" PVC SCHEDULE 40.
 5. ALL COMMON AREA POWER & IRRIGATION CONTROL PANEL WIRES SHALL BE 4/0-1/0 AWG THHN.

Common Area Electrical Panel A		DESCRIPTION	AMPERES	VOLTS	PHASES	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE
1	IRRI	IRRIGATION	100	120	3	4/0	THHN	3"	SCH 40
2	LI	LOADS	100	120	3	4/0	THHN	3"	SCH 40
3	IRRI	IRRIGATION	100	120	3	4/0	THHN	3"	SCH 40
4	LI	LOADS	100	120	3	4/0	THHN	3"	SCH 40
5	IRRI	IRRIGATION	100	120	3	4/0	THHN	3"	SCH 40
6	LI	LOADS	100	120	3	4/0	THHN	3"	SCH 40
7	IRRI	IRRIGATION	100	120	3	4/0	THHN	3"	SCH 40
8	LI	LOADS	100	120	3	4/0	THHN	3"	SCH 40
9	IRRI	IRRIGATION	100	120	3	4/0	THHN	3"	SCH 40
10	LI	LOADS	100	120	3	4/0	THHN	3"	SCH 40

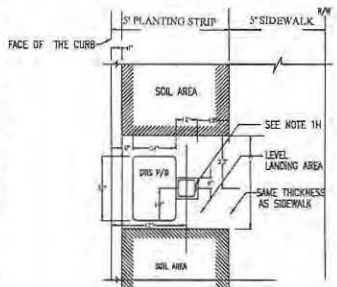
PROJECT: HUNTERS VIEW PHASE 1 INFRASTRUCTURE
 SHEET: E-19
 DATE: 09/09/11



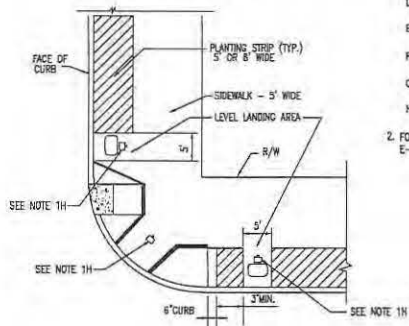
DTIS WILL PROVIDE THE 4-INCH GALVANIZED PIPE AT CONTRACTORS EXPENSE AND CONTRACTORS SHALL INSTALL THE PIPE. DTIS SHALL SUPPLY AND INSTALL THE FIRE ALARM BOX AT CONTRACTORS EXPENSE. THE FEES MUST BE PAID IN ADVANCE OF DTIS PROVIDING THE 4-INCH GALVANIZED PIPE FOR THE STAND AND SETTING THE ALARM BOX.



DTIS PULL STATION - ELEVATION
SCALE: N.T.S. (FOR 8' PLANTING STRIP)



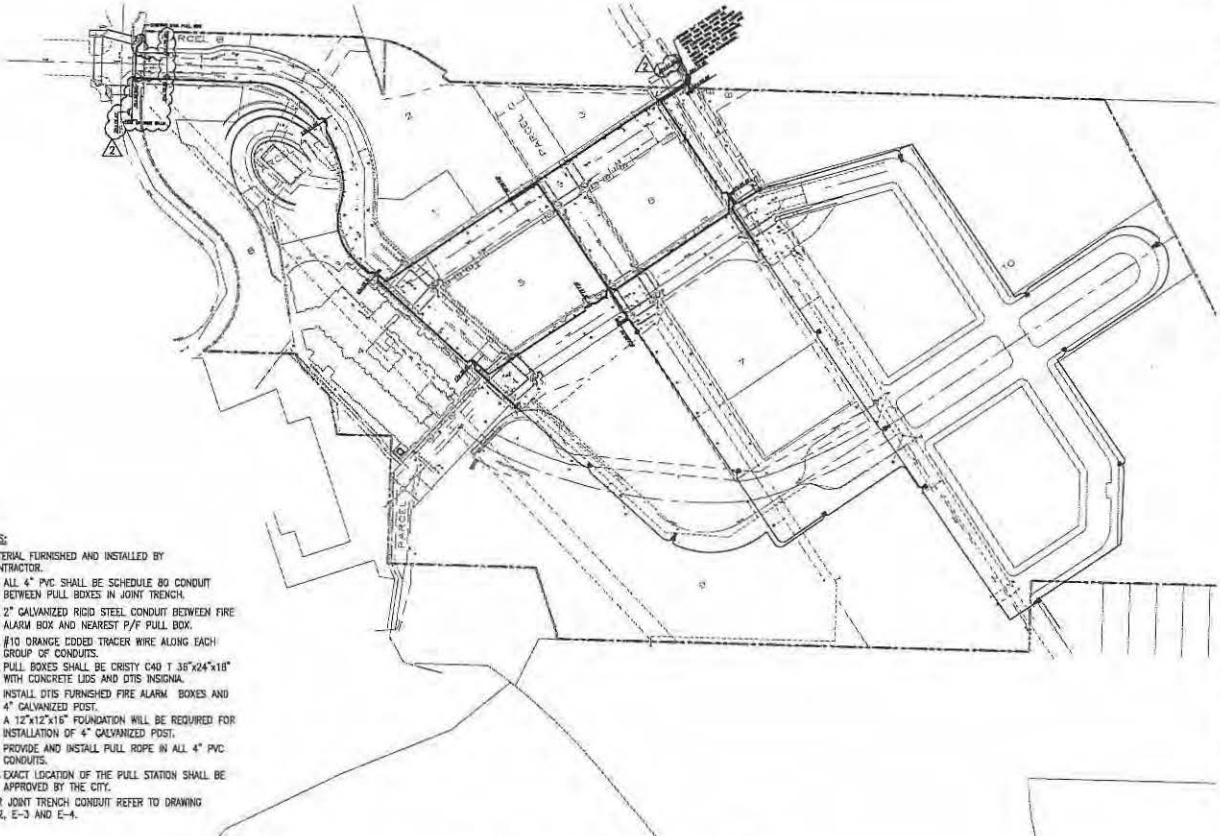
DTIS PULL STATION - PLAN
SCALE: N.T.S. (FOR 5' PLANTING STRIP)



DTIS PULL STATION ADJACENT TO CURB RAMP
SCALE: N.T.S. (TYP. NEXT TO EITHER TYPE OF C.R.)

NOTES:

1. MATERIAL FURNISHED AND INSTALLED BY CONTRACTOR.
 - A. ALL 4" PVC SHALL BE SCHEDULE 80 CONDUIT BETWEEN PULL BOXES IN JOINT TRENCH.
 - B. 2" GALVANIZED RIGID STEEL CONDUIT BETWEEN FIRE ALARM BOX AND NEAREST P/F PULL BOX.
 - C. #10 ORANGE CODED TRACER WIRE ALONG EACH GROUP OF CONDUITS.
 - D. PULL BOXES SHALL BE CRISTY C40 T 3.6"x24"x18" WITH CONCRETE LIDS AND DTIS INSIGNIA.
 - E. INSTALL DTIS FURNISHED FIRE ALARM BOXES AND 4" GALVANIZED POST.
 - F. A 12"x12"x18" FOUNDATION WILL BE REQUIRED FOR INSTALLATION OF 4" GALVANIZED POST.
 - G. PROVIDE AND INSTALL PULL ROPE IN ALL 4" PVC CONDUITS.
 - H. EXACT LOCATION OF THE PULL STATION SHALL BE APPROVED BY THE CITY.
2. FOR JOINT TRENCH CONDUIT REFER TO DRAWING E-2, E-3 AND E-4.



DTIS CONDUIT LAYOUT
SCALE: 1"=80'

LEGEND

- [Symbol] 36" x 24" x 18" PULL BOX WITH SEALED BOTTOM CONCRETE REINFORCED SLAB AND POLICE & FIRE PULL STATION (SEE DETAIL THIS DRAWING)
- [Symbol] 36" x 24" x 18" PULL BOX WITH SEALED BOTTOM CONCRETE REINFORCED SLAB
- [Symbol] 2 X 4" PVC SCHEDULE 80 FUTURE
- [Symbol] 2 X 4" PVC SCHEDULE 80 PHASE A



REVISIONS

NO.	DATE	REVISION	APPR.
1	12-12-11	BB	
2	7-2013	AS-BUILT	

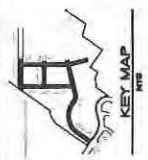
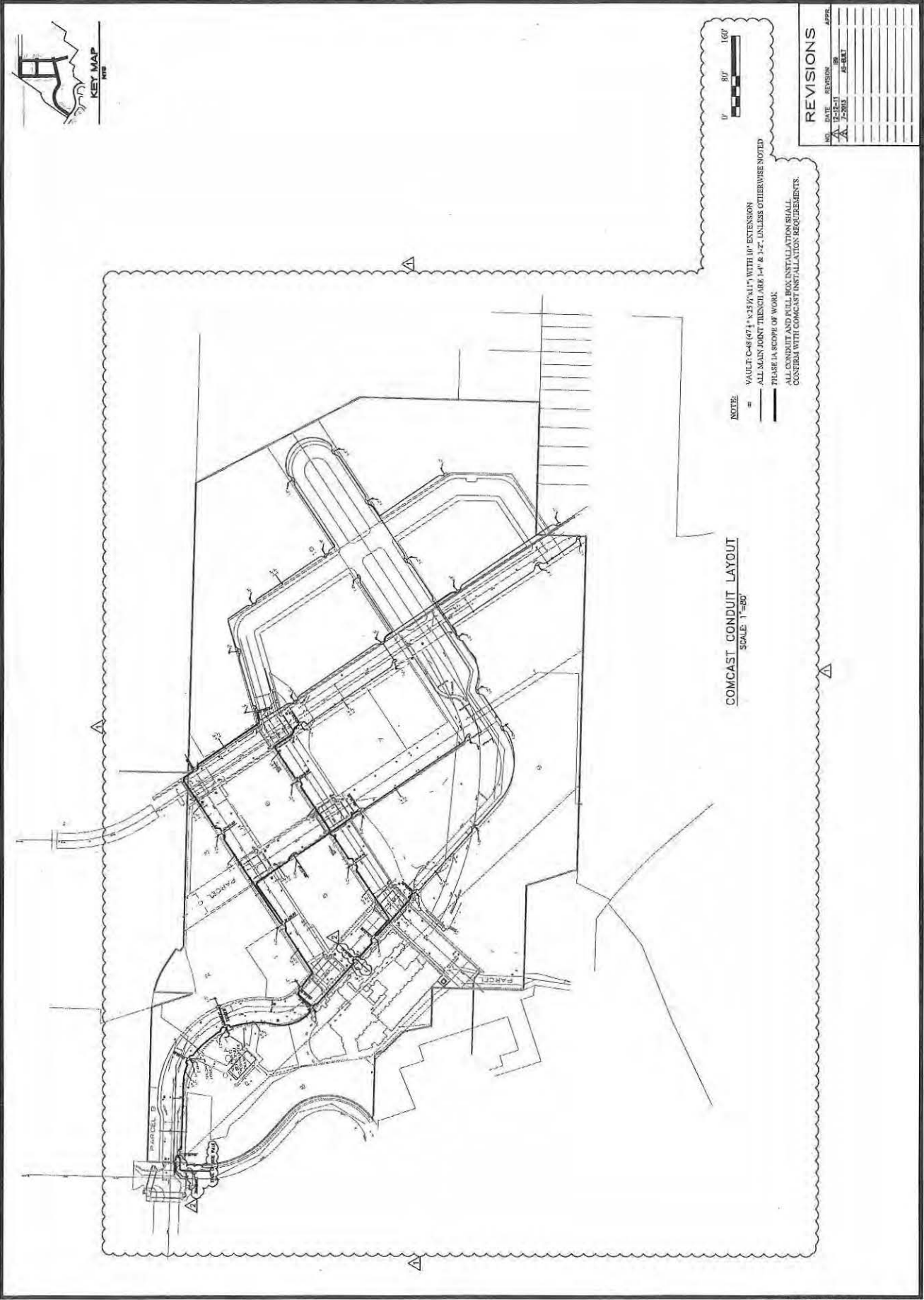
NBA
ENGINEERING & ARCHITECTURE
1100 MARKET STREET, SECOND FLOOR
SAN FRANCISCO, CALIFORNIA 94102
TEL: (415) 774-8640
FAX: (415) 774-8538

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]
CITY ENGINEER'S OFFICE
SAN FRANCISCO, CALIFORNIA

HUNTERS VIEW
PHASE 1 INFRASTRUCTURE
SAN FRANCISCO, CALIFORNIA
DTIS CONDUIT LAYOUT

DATE: SEPT 09, 2011
JOB NO.: 2007030A1
DRAWING NUMBER: E-20

CONCAST CONDUIT LAYOUT PHASE 1 INFRASTRUCTURE SAN FRANCISCO, CALIFORNIA		CHECKED BY: _____ DATE: _____ DRAWN BY: _____ DATE: _____	DATE: _____ JOB NO.: _____ ADD'DWG. #1 DRAWING NUMBER E-21
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NOTE:

- VAULT: C&B (24" x 36" x 48") WITH 10" EXTENSION
- ALL MAIN JOINT TRENCH ARE 1'-4" & 1'-2" UNLESS OTHERWISE NOTED

— THESE IS A SCOPE OF WORK.

ALL CONDUIT AND PULL BOX INSTALLATION SHALL CONFORM WITH CONCAST INSTALLATION REQUIREMENTS.

COMCAST CONDUIT LAYOUT
SCALE: 1"=50'

NO.	DATE	REVISION	APPR.
1	7-2-09	AS-BUILT	

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