EXCAVATIONS SHALL BE ADEQUATELY SHORED. BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA, THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.

5. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS FAILURE TO DO SO.

THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION

7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.

THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE. FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE

9. ALL QUANTITIES AND PAY ITEMS ARE BASED ON HORIZONTAL MEASUREMENTS

10. LENGTHS OF SANITARY SEWERS AND STORM DRAINS ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED OFF TO THE NEAREST

11. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.), AT (800) 227-2600. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.

12. THE CONSTRUCTION OF ALL GRAVITY UNDERGROUND LINES (SANITARY SEWERS AND STORM DRAIN LINES) SHALL BEGIN AT THE MOST DOWNSTREAM END UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER.

13. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.

14. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE UTILITY COMPANY. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATION WORK INCLUDING FEES, BONDS, PERMITS, ETC.

15. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.

16. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER (415) 777-2166 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

**PROJECT NOTES** 

ARCHITECT:

1. OWNER AVALON BAY COMMUNITIES 455 MARKET STREET, SUITE 1650 SAN FRANCISCO, CA 94107 CONTACT: MEG SPRIGGS PHONE: (415) 284-9087 FAX: (415) 546-4138 EMAIL: Meg\_Spriggs@avalonbay.com

2. CIVIL ENGINEER: AGS, INC. 5 FREELON STREET SAN FRANCISCO, CA 941 CONTACT: ERIK ALDERSON PHONE: (415) 777-2166 EMAIL: ealderson@agsinc.com PHONE: (415) 777-2166

1611 TELEGRAPH AVE, SUITE 200 OAKLAND, CA 94612 CONTACTS: PETER WALLER, PRINCIPAL ADRIANNE STEICHEN, PROJ. MNGR. PHONE: (510) 465-7010

PYATOK ARCHITECTS, INC.

FAX: (510) 465-8575 EMAIL: pwaller@pyatok.com, asteichen@pyatok.com

CITY AND COUNTY OF SAN FRANCISCO 4. CITY & COUNTY:

SANITARY SEWER: CITY AND COUNTY OF SAN FRANCISCO

COMCAST /AT&T

WATER: CITY AND COUNTY OF SAN FRANCISCO 7. GAS & ELECTRICAL: PG&E

8. TELEPHONE SERVICE: AT&T

9. CABLE TV:

10. BENCHMARK: LETTER "O" IN "OPEN" TOP OF HIGH PRESSURE FIRE HYDRANT AT THE NORTHWEST CORNER OF OAK & LAGUNA STREETS. ELEVATION = 88.24 FEET,

CITY OF SAN FRANCISCO DATUM. 11. ALL APPLICABLE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY OF SAN FRANCISCO ORDINANCE CODES. CALTRANS STANDARD SPECIFICATIONS, AND CITY OF SAN FRANCISCO STANDARD PLANS. ALL IMPROVEMENTS ARE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF SAN FRANCISCO PUBLIC WORKS DEPARTMENT. CONTRACTOR SHALL CONTACT COUNTY AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.

12. ALL NEW UTILITY DISTRIBUTION SERVICES SHALL BE PLACED UNDERGROUND.

13. PRIOR TO PLACING CURB, SIDEWALK, ASPHALT CONCRETE, SUBBASE, OR BASE MATERIAL, ALL UNDERGROUND FACILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE PUBLIC WORKS DEPARTMENT'S CONSTRUCTION DIVISION NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREA, THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS.

14. IF DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AN ARCHAEOLOGIST CONSULTED. AND THE CITY PLANNING DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES AS MAY BE REQUIRED BY THE PUBLIC WORKS DIRECTOR, SHALL BE TAKEN TO PROTECT THEM.

15. A CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CALOSHA) PERMIT SHALL BE OBTAINED FOR TRENCHES FIVE FEET OR GREATER IN DEPTH. A COPY OF THIS PERMIT SHALL BE SUPPLIED TO THE PUBLIC WORKS DEPARTMENT. AN ADDITIONAL COPY SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.

THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY ENGINEER.  $\,$  ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR IN THE STATE OF CALIFORNIA AT THE CONTRACTOR'S EXPENSE.

17. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE PUBLIC WORKS DIRECTOR AND/OR THE CIVIL ENGINEER. ALL REVISIONS TO THESE PLANS MUST BE REVIEWED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS SIGNED BY THE PUBLIC WORKS DIRECTOR.

18. THE CONTRACTOR SHALL PROVIDE TO THE CIVIL ENGINEER A REDLINED COPY OF "AS-BUILT" PLANS FOR PREPARATION OF RECORD DRAWINGS

19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE

CIVIL ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS 20. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF

RESPONSIBILITY OF SAID DEVIATION OR CHANGE

21. PRIOR TO MOVING ANY MATERIAL TO OR FROM THE SITE, THE CONTRACTOR SHALL OBTAIN APPROVAL FOR HAUL ROUTE FROM THE CITY PUBLIC WORKS DIRECTOR.

THE CIVIL ENGINEER SHALL ABSOLVE THE CIVIL ENGINEER OF ANY AND ALL

22. WHERE ABANDONED UNDERGROUND STRUCTURES ARE ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE ABANDONED STRUCTURES TO SUFFICIENT DEPTH TO ALLOW NEW UNDERGROUND LINES TO CROSS. THE CITY ENGINEER MAY REQUIRE FURTHER WORK TO BE DONE AFTER A VISUAL INSPECTION.

23. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN CONFORMANCE WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT AND AS REQUIRED BY THE STATE OF CALIFORNIA WATER RESOURCES CONTROL

24. ALL MANHOLES & VALVE BOXES SHALL BE ADJUSTED TO NEW FINISHED GRADE AFTER FINAL PAVING.

25. PRIOR TO THE START OF CONSTRUCTION, THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE CITY'S PUBLIC WORKS DEPARTMENT AND REQUEST A PRECONSTRUCTION CONFERENCE.

26. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT AT ALL TIMES. THE SITE SHALL BE SPRINKLED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST. THE CITY RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.

27. DURING THE CONSTRUCTION, THE PUBLIC STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION IF IMPORT OR EXPORT OF DIRT IS NECESSARY.

28. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT IN PUBLIC STREET AREAS. THE CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING AND/OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.

29. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARD, LAWS AND REGULATIONS.

30. ALL CONSTRUCTION ACTIVITIES ON THE PROJECT SITE SHALL BE LIMITED TO 7 A.M. TO 6 P.M., MONDAY THROUGH FRIDAY, UNLESS ALTERNATIVE HOURS ARE APPROVED BY THE DIRECTOR OF PUBLIC WORKS. CONSTRUCTION EQUIPMENT, INCLUDING COMPRESSORS, GENERATORS, AND MOBILE EQUIPMENT, SHALL BE FITTED WITH PROPERLY WORKING MUFFLERS.

31. DEWATERING MAY BE REQUIRED FOR CONSTRUCTION OF UNDERGROUND UTILITIES. IN ADDITION. THE BOTTOMS OF UTILITY TRENCHES MAY BECOME UNSTABLE AS A RESULT OF GROUNDWATER INTRUSION. THE CONTRACTOR SHALL PROVIDE DEWATERING AS NECESSARY. AND OVER-EXCAVATE AND BACKFILL UNSTABLE TRENCH BOTTOMS WITH ROCKS PRIOR TO INSTALLING THE UTILITY LINES.

32. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR PROJECT NO. 750512002, DATED MAY 23, 2011, AND PREPARED BY TREADWELL & ROLLO.

**CONCRETE** 

CONCRETE FLAT WORK SHALL COMPLY WITH THE CITY SAN FRANCISCO SPECIFICATIONS AND STANDARDS. CURB AND GUTTER/PARKING STRIP SHALL BI CONSTRUCTED PER CITY OF SAN FRANCISCO STANDARD PLAN FILE NO. 87,170. SIDEWALKS SHALL BE CONSTRUCTED PER CITY OF SAN FRANCISCO STANDARD PLAN FILE NO. 87,173.

EROSION CONTROL PLAN

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ALL FORECASTED RAIN EVENTS AND SHALL BE MAINTAINED DAILY AS REQUIRED TO CONTROL AND CONTAIN EROSION CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE WATER INTO STORM RAIN FACILITIES. DESIGN OF THESE MEASURES MUST BE APPROVED/UPDATED EACH YEAR PRIOR TO SEPTEMBER 30.

SEE EROSION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS.

SANITARY, STORM, AND COMBINED SEWER

ALL CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE CITY OF SAN FRANCISCO SPECIFICATIONS AND STANDARDS.

2. SEWER LATERALS SHALL BE AT THE LOCATIONS SHOWN ON THE PLANS AND PER CITY OF SAN FRANCISCO STANDARD PLANS, FILE NUMBERS 87,196 AND 87,197, UNLESS OTHERWISE NOTED ON THE PLANS.

STORM WATER INLETS SHALL BE PER CITY OF SAN FRANCISCO STANDARD PLANS, FILE NUMBERS 87,187, 87,189 87,193, AND 87,194.

4. IF DAMAGED DURING CONSTRUCTION, ANY EXISTING SEWER PIPELINES OR STRUCTURES THAT ARE TO REMAIN AFTER DEVELOPMENT SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF SAN FRANCISCO DEPARTMENT OF PUBLIC

NO ASPHALT PAVING SHALL BE PLACED UNTIL THE NEW SEWER LINES ARE COMPLETED AND ACCEPTED BY THE CITY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS.

WATER SYSTEM

1. NEW WATER SERVICES SHALL BE INSTALLED BY THE SAN FRANCISCO WATER DEPARTMENT (SFWD) FROM THE EXISTING MAIN UP TO AND INCLUDING THE INSTALLATION OF THE NEW WATER METER, INCLUDING EXCAVATION AND PAVEMENT RESTORATION. THE CONTRACTOR SHALL INSTALL THE WATER LINE FROM THE WATER METER TO THE BUILDING.

FIRE DEPARTMENT REQUIREMENTS

FIRE LANES SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING PARKING. PARKING IS ONLY PERMITTED OUTSIDE OF FIRE ACCESS AREAS AND WHEN CLEARLY DESIGNATED AND APPROVED ON THE PLANS.

2. FIRE LANE POSTING SHALL BE FIELD COORDINATED WITH THE FIRE DEPARTMENT

3. A MINIMUM 18-INCH VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE HYDRANT STEMS TO THE TOP OF SIDEWALK, TOP OF CURB AND GRADE.

4. A MINIMUM 3-FEET CLEARANCE SHALL BE PROVIDED AROUND THE SIDE AND REAR OF FIRE HYDRANTS. NO PARKING OR OTHER OBSTRUCTIONS SHALL BE PERMITTED ALONG THE ACCESS ROAD FRONTING THE HYDRANT, FOR A DISTANCE OF 15-FEET IN EACH DIRECTION.

5. PRIOR TO CITY OF SAN FRANCISCO FINAL ACCEPTANCE, FIELD INSPECTION AND APPROVAL IS REQUIRED BY THE FIRE DEPARTMENT. CONTRACTOR SHALL CONTACT SAN FRANCISCO TO SCHEDULE AN INSPECTION.

CONTRACTOR SHALL COMPLY WITH THE FOLLOWING FIRE REQUIREMENTS PRIOR TO AND DURING CONSTRUCTION:

6.a. ARTICLE 87 OF THE CALIFORNIA FIRE CODE CONCERNING FIRE SAFETY DURING CONSTRUCTION SHALL BE ABIDED BY. A COPY OF SUCH, ALONG WITH ANY REQUIRED SAFETY PLANS, SHALL BE MAINTAINED AT THE JOB SITE

6.b. AN APPROVED MEANS FOR REPORTING EMERGENCIES SHALL BE PROVIDED AT THE JOB SITE.

6.c. A MINIMUM OF ONE 2A 20BC FIRE EXTINGUISHER SHALL BE MAINTAINED WITHIN 75-FEET OF TRAVEL DISTANCE FROM ANY PORTION OF THE BUILDING BEING CONSTRUCTED. FIRE EXTINGUISHERS SHALL BE ON THE SAME LEVEL AND WITHIN 30-FEET OF HAZARDOUS OPERATIONS. SEE FIRE CODE FOR ADDITIONAL REQUIREMENTS.

CIVIL SYMBOLS

**EXISTING:** 

0WV

*ELECTROLIER* 

ELECTROLIER

W/(2) RISERS

ELECTROLIER &

TRAFFIC SIGNAL

NO PARKING SIGN

ELECTROLIER W/

NO PARKING SIGN

PEDESTRIAN/VEHICULAR

PEDESTRIAN/VEHICULAR

STREET SIGN &

ELECTROLIER &

TRAFFIC SIGNALS

TRAFFIC SIGNALS

JOINT POLE

WATER METER

WATER RISER

WATER VALVE

IRRIGATION BOX

HIGH PRESSURE

LOW PRESSURE

HIGH PRESSURE

WATER VALVE

FIRE HYDRANT

FIRE HYDRANT

CATCH BASIN

CATCH BASIN

SEWER VENT

GAS VALVE

SEWER CLEANOUT

SEWER MANHOLE

ELECTRIC MANHOLE

ELECTRIC PULLBOX

TELEVISION PULLBOX

STREET LIGHT PULLBOX

TRAFFIC SIGNAL PULLBOX

TRAFFIC SIGNAL CONTROL

HIGH VOLTAGE

ELECTRIC VAULT

"RLC" PULLBOX

BOX. 8' HIGH

TRAFFIC CAMERA ON

POLE, 12'± HIGH

PULLBOX

TREE

○24"(C) TREE CLUSTER

DEAD TREE

TWIN TREES

**BOLLARD** 

O<sup>24</sup>"

o10"(D)

| TP |

UNKNOWN MANHOLE

UNKNOWN PULLBOX

TREE PIT W/TREE

MONITORING WELL

NO PARKING SIGN

OVERHEAD ELECTRIC WIRE

OVERHEAD ELECTRIC &

TELEVISION WIRES

ELECTRIC LINE

GAS LINE

\_\_\_\_W \_\_\_ WATER LINE

DUCT

PIPE

(D)

(P)

SEWER LINE

STREET LIGHT LINE

TRAFFIC SIGNAL LINE

\_HPW\_\_ HIGH PRESSURE WATER LINE

TELEPHONE LINE

OVERHEAD TELEVISION WIRES

SEWER LINE (PER RECORD)

HIGH PRESSURE GAS LINE

TRAFFIC SIGN

TREE PIT (NO TREE)

UNKNOWN ABANDONED

UNKNOWN BOX. 4' HIGH

PELECTROLIER &

ELECTROLIER &

STREET SIGN

**PROPOSED:** 

NEW STREET LIGHT (SINGLE ARM)

CATCH BASIN

TRAFFIC SIGNAL

SEWER FRESH AIR VENT WATER METER

STREET LIGHT PULLBOX TRAFFIC SIGNAL PULLBOX

GAS METER SPOT ELEVATION

CIVIL ABBREVIATIONS & SYMBOLS NOTES

1. LISTING OF ABBREVIATIONS AND SYMBOLS DOES NOT IMPLY ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.

SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

3. HEAVY LINES AND SYMBOLS INDICATE WORK TO BE DONE BY THE CONTRACTOR. LIGHT LINES AND SYMBOLS INDICATE EXISTING FEATURES OR WORK TO BE DONE BY ANOTHER ENTITY.

4. LEGEND SHEETS ARE PROVIDED FOR EACH DISCIPLINE. SYMBOLS AND ABBREVIATIONS MAY NOT BE CONSISTENT BETWEEN DIFFERENT DISCIPLINES. USE THE APPROPRIATE LEGEND SHEET WITH THE CORRESPONDING DISCIPLINE DRAWINGS.

CIVIL ABBREVIATIONS & SYMBOLS NOTES: AGGREGATE BASE MAXIMUM ASPHALTIC CONCRETE MIN MINIMUM MISC ASBESTOS CEMENT MISCELLANEOUS MANHOLE AREA DRAIN *APPROXIMATELY* NOT APPLICABLE AGGREGATE SUB-BASE NGVD NATIONAL GEODETIC ASPHALTIC CONCRETE VERTICAL DATUM *AVERAGE* NOT IN CONTRACT BEGIN CURVE BUILDING BENCH MARK OUTSIDE DIAMETER BVCBEGIN VERTICAL CURVE OVER PROPERTY LINE BEGIN VERTICAL CURVE *BVCE* ELEVATION PLANTED AREA BEGIN VERTICAL CURVE PCCPORTLAND CEMENT STATION CONCRETE BACK OF WALK PEDPEDESTRIAN POTHOLE (UTILITY WAS **CURB** POTHOLED) CBCATCH BASIN POCPOINT OF CONNECTION CURB & GUTTER PUBLIC UTILITY CAST IRON EASEMENT CENTERLINE POLYVINYL CHLORIDE CLEAR OF PROPERTY PVIPOINT OF VERTICAL LINE INFLECTION CORRUGATED METAL COCLEANOUT REINFORCED CONCRETE CONC CONCRETE REINFORCED CONCRETE CONS7 CONSTRUCTION PIPE CONT CONTINUOUS REQD *REQUIRED* CS COMBINED SEWER RT RIGHT CUBIC YARD RIGHT OF WAY RET WALL RETAINING WALL DET DETAIL DRAINAGE INLET SCH SCHEDULE DIAMETER STORM DRAIN DIMDIMENSION SDMH STORM DRAIN D/W DRIVEWAY MANHOLE

SAN FRANCISCO **EXISTING** SHT SHEET EACH STREET LIGHT END CURVE **SPEC SPECIFICATIONS** ELEV ELEVATION SANITARY SEWER ELECTRIC SANITARY SEWER EDGE OF PAVEMENT MANHOLE ET CETERA STA STATION EXISTING GROUND STD STANDARD END VERTICAL CURVE STL STEEL ELEVATION S/W SIDEWALK END VERTICAL CURVE

STATION *TELEPHONE* TOP OF CURB FINISH FLOOR TRENCH DRAIN FINISH GRADE TEL *TELEPHONE* FIRE HYDRANT TEMPORARY FLOW LINE TOP OF PAVEMENT FINISH SURFACE TRAFFIC SIGNAL FEET TYP TYPICAL

TOP WALL *GUTTER* GAGEUNLESS NOTED GALV*GALVANIZED* OTHERWISE GRADE BREAK COMMON TRENCH GRDGROUND UTILITIES

HIGH DENSITY POLYETHYLENE VERTICAL CURVE HANDICAP RAMP **VERT** VERTICAL INSIDE DIAMETER WATER INCHES WATER LINE *INVERT* WVWATER VALVE

WITH

WITHOUT

JUNCTION BOX JOINT POLE JOINT TRENCH LENGTH

LATERAL LINEAR FEET LIGHT POLE LEFT

GB

INV

5 Freelon Street

San Francisco, California 94107 415.777.2166 p | 415.777-2167 f

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EET) X 0 

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SITE PERMIT SET 10/03/2012 STREET IMPROVEMENT SUBMITTAL 11/01/2012 DESIGN DEVELOPMENT PRICING SET 11/29/2012 DESIGN DEVELOPMENT FINAL SET 01/15/2013 SITE PERMIT RESUBMITTAL / 50% CD SET 02/15/2013 MAJOR ENCROACHMENT PERMIT 02/15/2013 SITE PERMIT ADDENDUM #1 03/01/2013 SITE PERMIT ADDENDUM #2 03/25/2013 SITE PERMIT ADDENDUM #3 04/01/2013 GMP / 90% CD SET 04/18/2013 BID ADDENDUM #1 04/26/2013 CIVIL ADDENDUM 06/28/2013 SF WATER PERMIT 07/18/2013 SEWER, WATER, & JT REV. 09/06/2013 OAK STREET REVISIONS 03/24/2014 **GRADING CORRECTIONS** SFPDW COMMENTS REV. LAGUNA ST. REVSIONS

04/08/2014 07/18/2014 09/09/2014 SFPUC COMMENTS REV. 09/24/2014

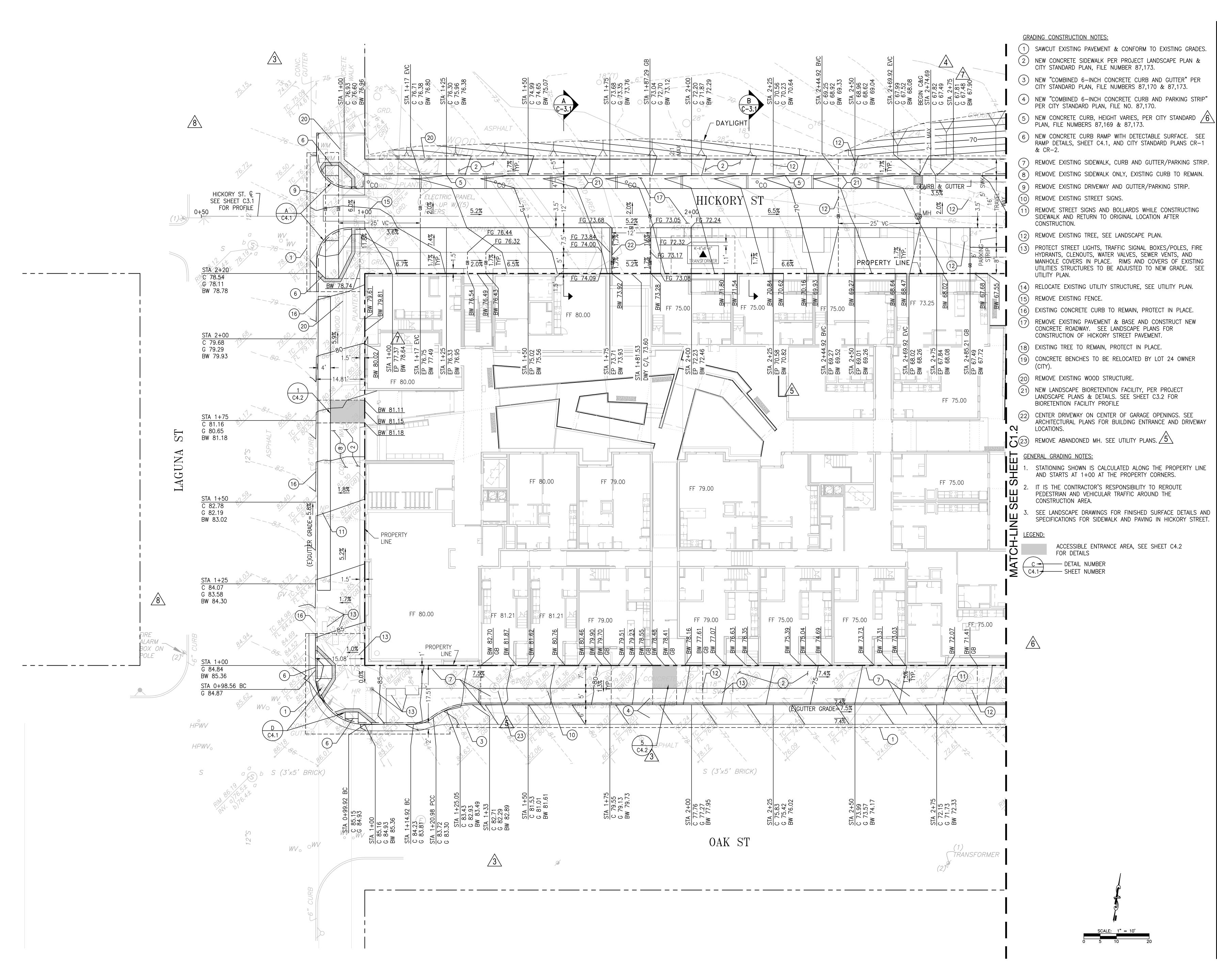
**AVALON BAY COMMUNITIES** 455 MARKET STREET, SUITE 1650 SAN FRANCISCO, CA 94105

Job Number: Drawn by: Checked by: Date: SEPT. 9, 2014 Scale: AS SHOWN

CIVIL LEGEND ABBREVIATIONS AND GENERAL NOTES

Sheet

Stamp:





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STREET ACUNA 400 STREET & CA 94102 023) 02

DESIGN DEVELOPMENT FINAL SET 01/15/201 SITE PERMIT RESUBMITTAL 🔨 50% CD SET MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #1 SITE PERMIT ADDENDUM #2 SITE PERMIT ADDENDUM #3 GMP / 90% CD SET BID ADDENDUM #1 CIVIL ADDENDUM 06/28/2013 SF WATER PERMIT SEWER, WATER, & JT REV. OAK STREET REVISIONS GRADING CORRECTIONS SFPDW COMMENTS REV. LAGUNA ST. REVSIONS SFPUC COMMENTS REV. 09/24/2014

10/03/2012

SITE PERMIT SET

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STREET IMPROVEMENT SUBMITTAL 11/01/2012

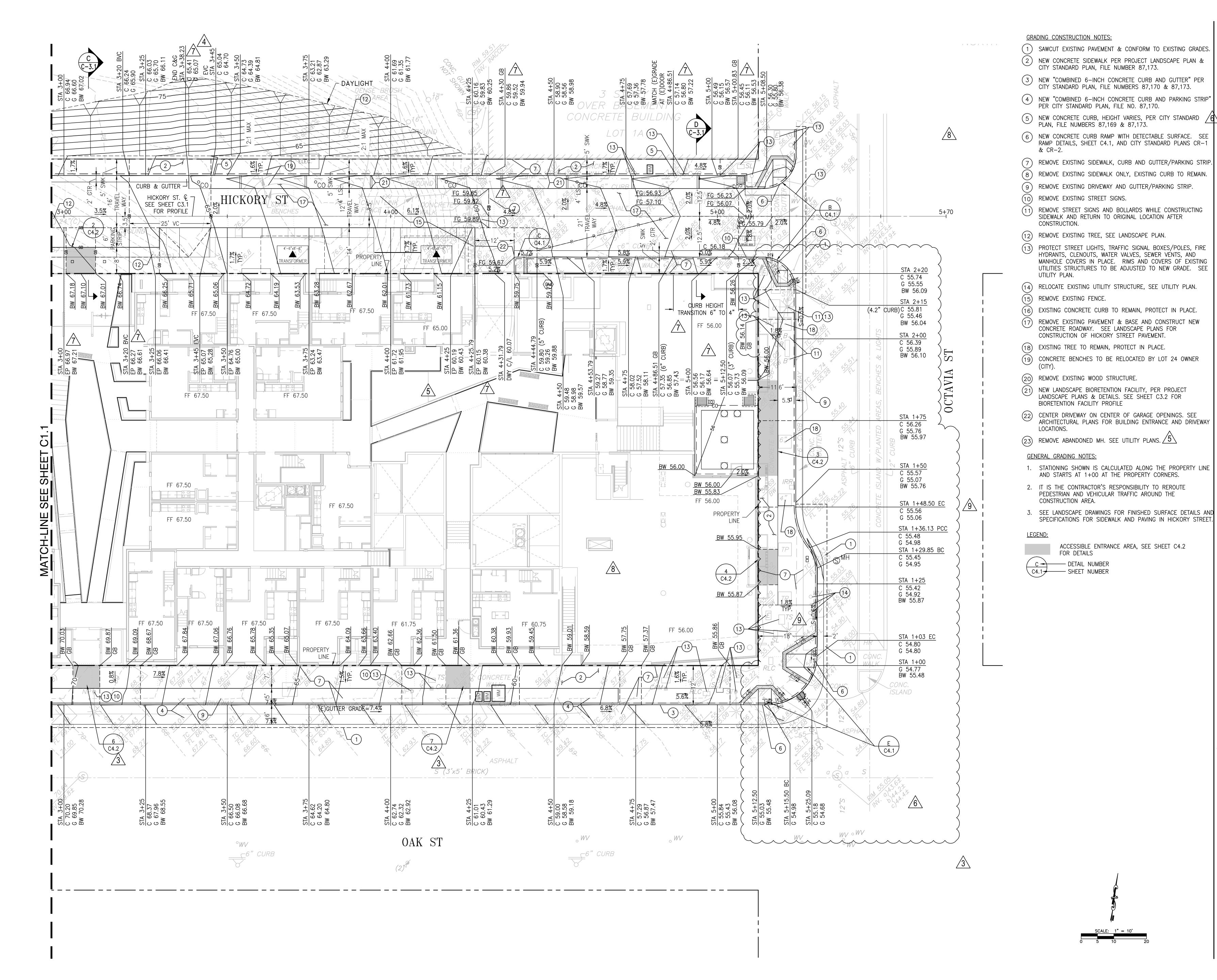
DESIGN DEVELOPMENT PRICING SET 11/29/201

**AVALON BAY COMMUNITIES** 

455 MARKET STREET, SUITE 1650 SAN FRANCISCO, CA 94105

Job Number: Drawn by: Checked by: Scale:

GRADING PLAN WEST



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STRE

400

 $\mathbf{O}$ SITE PERMIT SET

STREET IMPROVEMENT SUBMITTAL 11/01/2012 SITE PERMIT RESUBMITTAL / MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #1 SITE PERMIT ADDENDUM #2 SITE PERMIT ADDENDUM #3 GMP / 90% CD SET BID ADDENDUM #1 CIVIL ADDENDUM SF WATER PERMIT SEWER, WATER, & JT REV. OAK STREET REVISIONS **GRADING CORRECTIONS** SFPDW COMMENTS REV. LAGUNA ST. REVSIONS

50% CD SET

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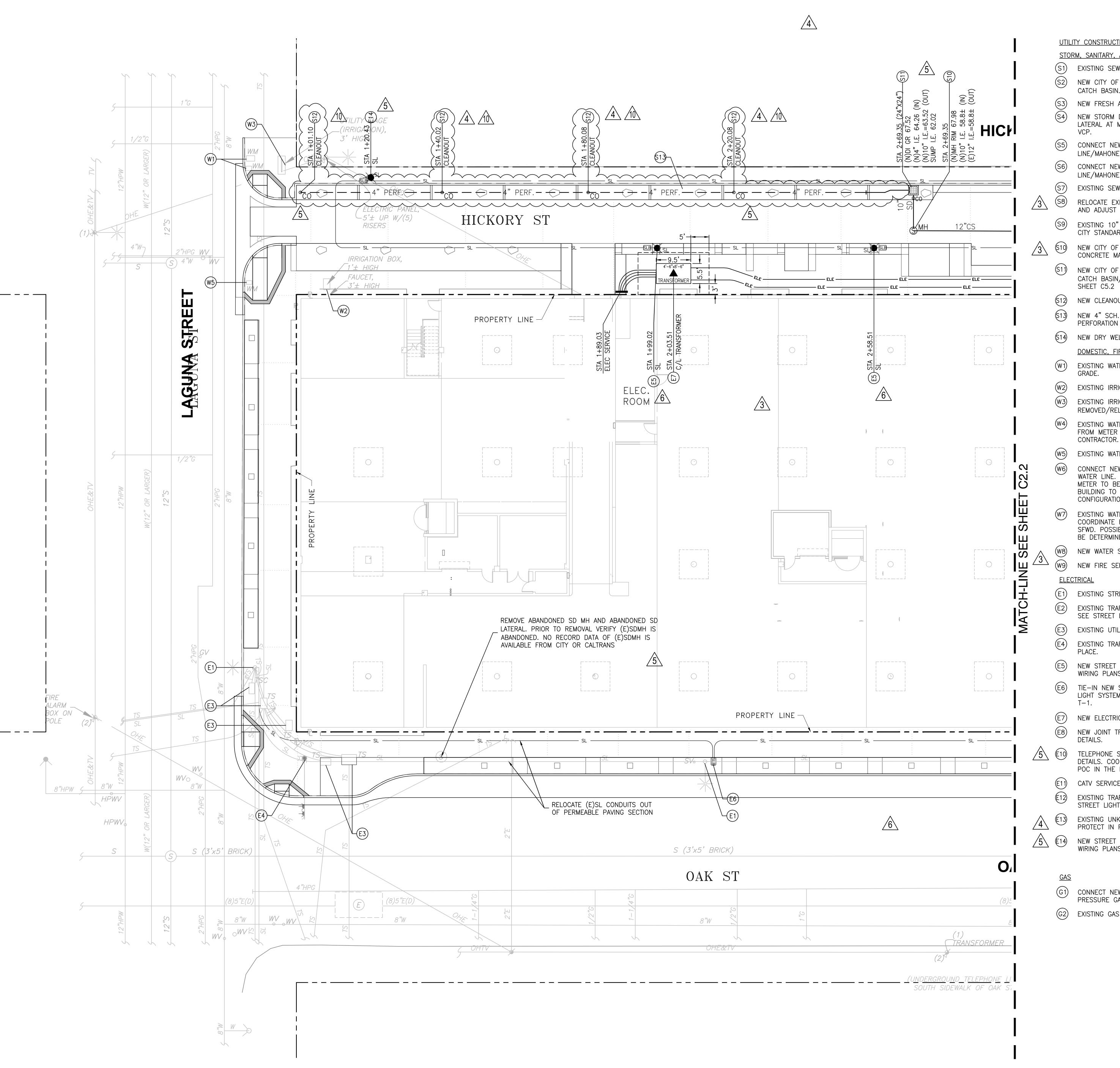
SFPUC COMMENTS REV. 09/24/2014

**AVALON BAY COMMUNITIES** 

455 MARKET STREET, SUITE 1650 SAN FRANCISCO, CA 94105

Job Number: Drawn by: Checked by:

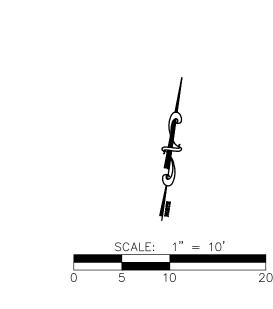
GRADING PLAN EAST





#### STORM, SANITARY, AND COMBINED SEWER

- EXISTING SEWER MANHOLE, ADJUST RIM TO NEW GRADE.
- NEW CITY OF SF STD (FILE NO. 87,188) STORM DRAIN CATCH BASIN. INSTALL ON (E)10" VCP SD LINE.
- NEW FRESH AIR VENT.
- NEW STORM DRAIN, SANITARY SEWER, OR COMBINED SEWER LATERAL AT MINIMUM 2% SLOPE. USE EXTRA STRENGTH
- CONNECT NEW STORM, SANITARY, OR COMBINED SEWER LINE/MAHONE TO NEW SEWER LINE/MANHOLE.
- CONNECT NEW STORM, SANITARY, OR COMBINED SEWER LINE/MAHONE TO EXISTING SEWER LINE/MANHOLE.
- EXISTING SEWER MANHOLE. ADJUST RIM TO NEW GARDE.
- RELOCATE EXISTING SEWER CLEANOUT INTO NEW SIDEWALK AND ADJUST TO NEW GRADE.
- EXISTING 10" VCP SEWER, PLUG & FILL TO ABANDON PER CITY STANDARD SPECIFICATIONS PART 3, SECTION 302.
- NEW CITY OF SF STD (FILE NO. 87,181) PRECAST
- NEW CITY OF SF STD (FILE NO. LA-214) 2X2 CONCRETE CATCH BASIN/SAND TRAP W/CLEAN OUT. SEE DETAIL 1 ON
- SHEET C5.2 NEW CLEANOUT. SEE DETAIL 3 ON SHEET C5.2
- NEW 4" SCH. 40 PVC DOWNWARD FACING PERFORATED PIPE. PERFORATION SIZE AND SPACING PER AASHTO M278.
- NEW DRY WELL SYSTEM. SEE DETAILS ON SHEET C5.3. DOMESTIC, FIRE, AND IRRIGATION WATER
- EXISTING WATER VALVE OR METER, ADJUST COVER TO NEW
- EXISTING IRRIGATION BOX, TO BE REMOVED.
- EXISTING IRRIGATION STRUCTURE, TO BE
- REMOVED/RELOCATED BY LOT 24 OWNER (CITY). EXISTING WATER METER, TO BE RELOCATED BY SFWD. LINE FROM METER TO BUILDING TO BE CONNECTED BY
- EXISTING WATER METER, TO BE REMOVED BY SFWD.
- CONNECT NEW WATER SERVICE LATERAL TO EXISTING 8" WATER LINE. WATER METER AND LINE FROM MAIN TO METER TO BE INSTALLED BY SFWD, LINE FROM METER TO BUILDING TO BE INSTALLED BY CONTRACTOR. SIZE AND CONFIGURATION OF WATER METERS TO BE SFWD.
- EXISTING WATER VALVE & TWO 2" AIR RELEASE VALVES. COORDINATE RELOCATION WORK, SCOPE, AND FEES WITH SFWD. POSSIBILITY OF RELOCATION OF THESE FACILITIES TO BE DETERMINED BY SFWD
- NEW WATER SERVICE LINE. SEE PLUMBING PLANS.
- NEW FIRE SERVICE LINE. SEE FIRE PROTECTION PLANS.
  - EXISTING STREET LIGHT TO REMAIN, PROTECT IN PLACE.
- EXISTING TRAFFIC SIGNAL CAMERA RELOCATE AS NECESSARY, SEE STREET LIGHT WIRING PLANS SHEET T-1.
- EXISTING UTILITY BOX, ADJUST COVER TO NEW GRADE.
- EXISTING TRAFFIC SIGNAL POLE, TO REMAIN, PROTECT IN
- NEW STREET LIGHT AND PULLBOX. SEE STREET LIGHT WIRING PLANS SHEET T-1.
- TIE-IN NEW STREET LIGHT CONDUITS TO EXISTING STREET LIGHT SYSTEM. SEE STREET LIGHT WIRING PLANS SHEET T-1.
- NEW ELECTRICAL TRANSFORMER,  $4'-6'' \times 8'-6''$ .
- NEW JOINT TRENCH, SEE JOINT TRENCH PLANS PLANS FOR DETAILS.
- TELEPHONE SERVICE. SEE JOINT TRENCH PLANS FOR DETAILS. COORDINATE LOCATIONS OF BOXES, CONDUITS AND POC IN THE FIELD WITH UTILITY SERVICE PROVIDERS.
- CATV SERVICE. SEE JOINT TRENCH PLANS FOR DETAILS
- EXISTING TRAFFIC SIGNAL BOX, RELOCATE AS SHOWN. SEE STREET LIGHT WIRING PLANS SHEET T-1.
- EXISTING UNKNOWN CABINET AND BOLLARDS TO REMAIN, PROTECT IN PLACE.
- NEW STREET LIGHT AND PULLBOX. SEE STREET LIGHT WIRING PLANS SHEET T-1, AND DETAIL 1 ON L4.05
  - CONNECT NEW GAS SERVICE TO EXISTING 6" HIGH
  - (G2) EXISTING GAS VALVE, ADJUST COVER TO NEW GRADE.



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STREET

ACONA

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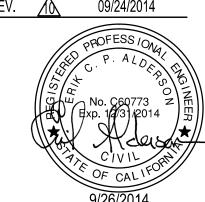
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SITE PERMIT SET 10/03/2012 STREET IMPROVEMENT SUBMITTAL 11/01/2012 DESIGN DEVELOPMENT PRICING SET 11/29/2012 DESIGN DEVELOPMENT FINAL SET 01/15/2013 SITE PERMIT RESUBMITTAL 🔨 MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #1 SITE PERMIT ADDENDUM #2 03/25/2013 SITE PERMIT ADDENDUM #3 GMP / 90% CD SET 04/18/2013 BID ADDENDUM #1 04/26/2013 CIVIL ADDENDUM SF WATER PERMIT

50% CD SET

Stamp:

06/28/2013 07/18/2013 SEWER, WATER, & JT REV. OAK STREET REVISIONS GRADING CORRECTIONS SFPDW COMMENTS REV. 07/18/2014 LAGUNA ST. REVSIONS 09/09/2014 SFPUC COMMENTS REV. 09/24/2014

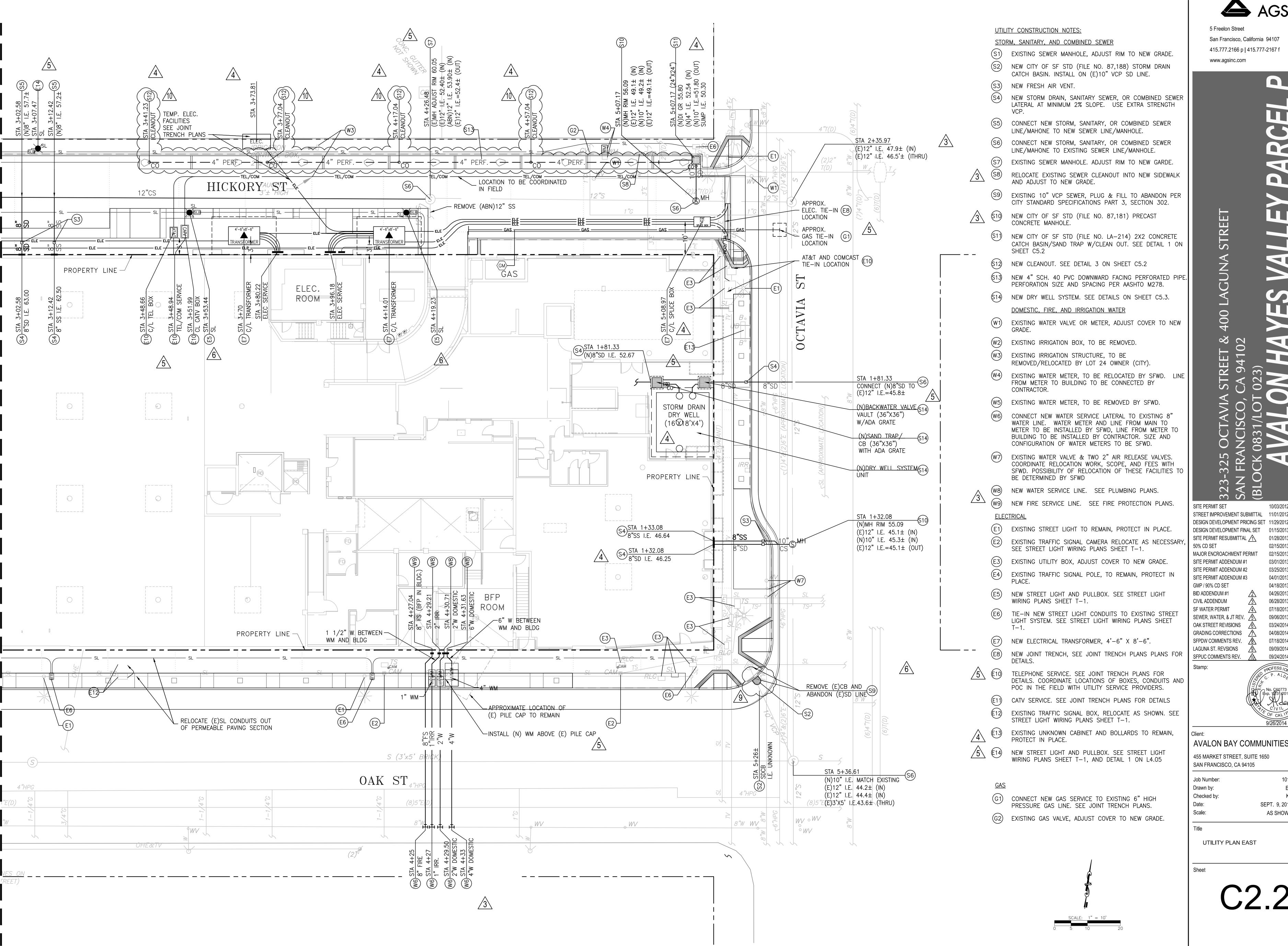


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UTILITY PLAN WEST





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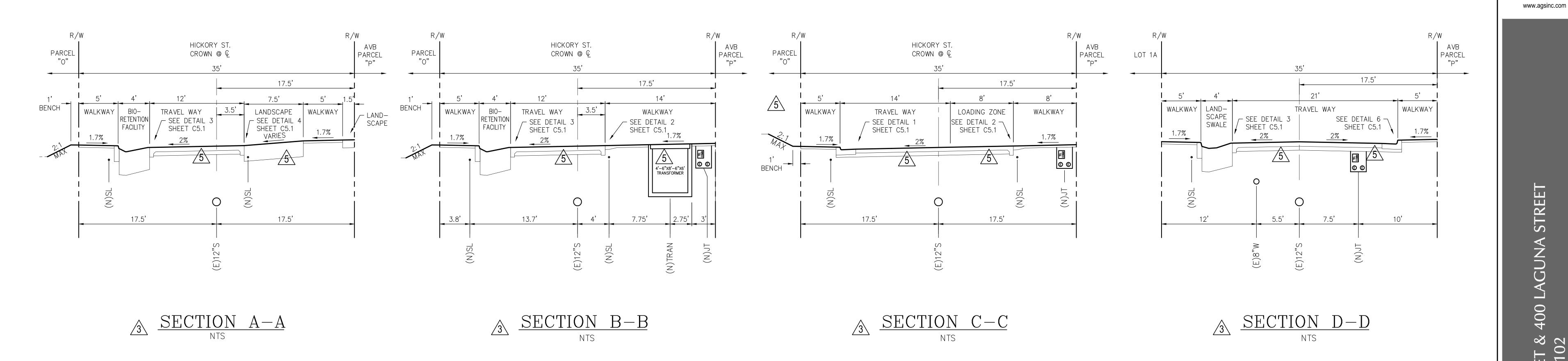
10/03/2012

**AVALON BAY COMMUNITIES** 

455 MARKET STREET, SUITE 1650 SAN FRANCISCO, CA 94105

Job Number: Drawn by: Checked by: SEPT. 9, 2014 AS SHOWN

UTILITY PLAN EAST



5 25.00' VC PVI STA=1+04.50 PVI ELEV=77.33 0+88.00 GB\_ EXISTING 25.00' VC GROUND PVI STA=2+57.42 PVI ELEV=68.39 ✓ 25.00° VC PVI STA=3+32.50 PVI ELEV=65.76 10.00' VC PVI STA=5+11.51 FINISH PVI\_ELEV=55.90 GRADE CUT (E) SMH BARREL & \_5+22.09 GB CONSTRUCT NEW CONE/ SLAB — 55.68 FS TO ADJUST RIM TO (N) GRADE 5+24.09 GB 55.58 FS (N)SMH STA=2+69.35 RIM=67.98 INV IN=58.8± INV OUT=58.8± -2.0% 81 LF 12" (E) SEWER (E)SMH STA=4+26.48 RIM=60.05 INV IN=52.40 $\pm$ INV IN=53.90± INV OUT=52.40± STA=5+07.17 RIM=56.09 INV IN=49.09± INV IN=49.23± INV OUT=49.09± (E)SMH STA=2+35.97 RIM=55.73 INV IN=47.90 INV OUT=46.50 29 LF 12" (E) SEWER 0+50 1+00 3+00 4+00 5+70 2+00 5+00

#### **UTILITY CONSTRUCTION NOTES:**

#### STORM, SANITARY, AND COMBINED SEWER

- INVERTS AND RIMS OF EXISTING MANHOLES AND 12" ISP NOT FOUND IN FIELD BASED ON RECORD DATA. CONTRACTOR TO VERIFY INVERTS AND, PIPE AND MANHOLE CONDITIONS PRIOR TO CONSTRUCTION.
- UNPLUG ABANDONED 12" ISP AND REPLACE AS NEEDED.

SFPUC COMMENTS REV. 09/24/2014

10/03/2012

02/15/2013

03/01/2013

03/25/2013

04/01/2013

04/18/2013

04/26/2013 06/28/2013

07/18/2013

04/08/2014

07/18/2014

09/09/2014

**AVALON BAY COMMUNITIES** 

455 MARKET STREET, SUITE 1650 SAN FRANCISCO, CA 94105

SITE PERMIT SET

50% CD SET

GMP / 90% CD SET

BID ADDENDUM #1

CIVIL ADDENDUM

SF WATER PERMIT

SITE PERMIT RESUBMITTAL 🗥

MAJOR ENCROACHMENT PERMIT

SITE PERMIT ADDENDUM #1

SITE PERMIT ADDENDUM #2

SITE PERMIT ADDENDUM #3

SEWER, WATER, & JT REV. 5

OAK STREET REVISIONS GRADING CORRECTIONS

SFPDW COMMENTS REV.

LAGUNA ST. REVSIONS

Stamp:

STREET IMPROVEMENT SUBMITTAL 11/01/2012 DESIGN DEVELOPMENT PRICING SET 11/29/2012 DESIGN DEVELOPMENT FINAL SET 01/15/2013

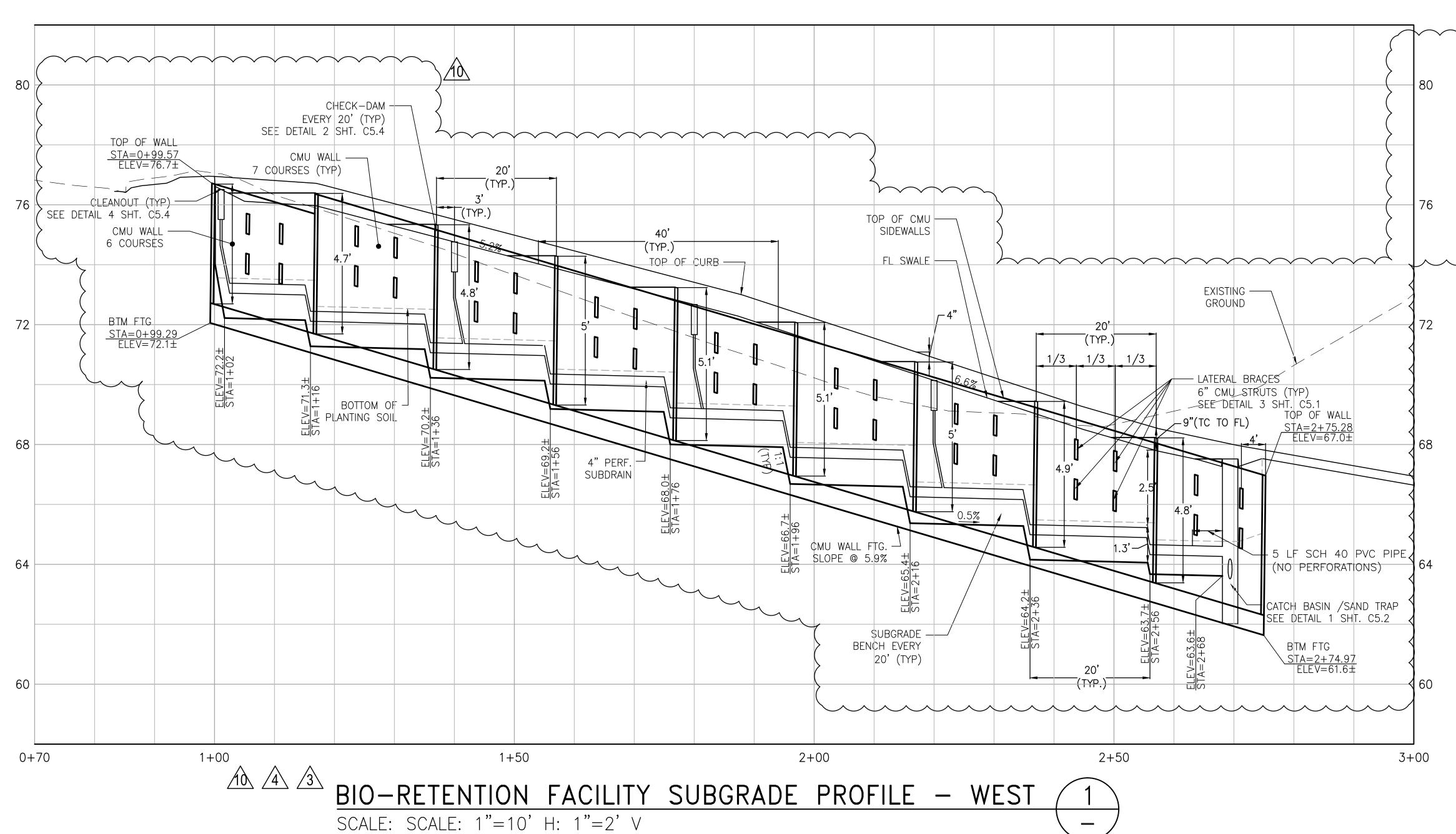
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HICKORY STREET PROFILE



CHECK DAM WALL HIEGHT (CMU + CURB WALL)							
STA @ CL WALL	TC @ WALL	TOP OF WALL	BTM OF WALL	WALL HEIGHT			
1+17	76.71	76.38	71.69	4.69			
1+37	75.67	75.34	70.50	4.84			
1+57	74.62	74.29	69.32	4.97			
1+77	73.58	73.25	68.13	5.12			
1+97	72.40	72.07	66.95	5.12			
2+17	71.08	70.75	65.76	4.99			
2+37	69.77	69.44	64.57	4.87			
2+57	68.55	68.22	63.39	4.83			

72				72
	EXISTING GROUND			
TOP OF WALL  STA=3+37.72 ELEV=64.9±    CLEANOUT (TYP)   SEE DETAIL 4 SHT. C5.4	CMU WALL			68
(TYP.)	7 COURSES (TYP) \\ CHECK-DAM \\			
		OF CMU DEWALLS		64
4.9'	FL FL	- SWALE -		
	TOP O	F CURB (TYP.)		60
BTM FTG STA=3+37.39 ELEV=59.6±	4.9'	1/3 1/3 1/3	- LATERAL BRACES 6" CMU STRUTS (TYP) SEE DETAIL S SHT. C5.1	
56  The state of t	4.9	4.8%	-4" -9"(TC TO FL) 1/2 TOP STA=	OF WALL =5+09.15 EV=54.5±
56 PLANTING SOIL TO STANK THE PLANTING SOIL THE	+ PERF.	5.17, 2.5		56 EV=54.5±
	999+ SUBDRAIN	0.5% 1.25' 5.4'	5.7	
		14	CA SE	ATCH BASIN /SAND TRAP SE DETAIL 1 SHT. C5.2
52	SUBGRADE —— BENCH EVERY 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20' SLOPE @ 6.1% PT   STOPE   STOPE	(NO	F SCH 40 PVC PIPE 52 PERFORATIONS)
		20'	STA:	FTG =5+08.83 EV=49.2±
3+20 3+50	4+00	4+50	5+00	5+50
BIO-RETE	NTION FACILITY SUE	BGRADE PROFILE — EA	AST 2	

SCALE: SCALE: 1"=10' H: 1"=2' V

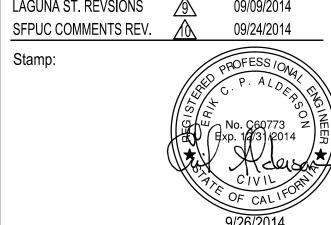
STA @ CL WALL	TC @ WALL	TOP OF WALL	BTM OF WALL	WALL HEIGHT
			(TOP OF FTG)	
3+54	64.49	64.16	59.28	4.88
3+74	63.27	62.94	58.07	4.87
3+94	62.05	61.72	56.85	4.87
4+14	60.83	60.50	55.63	4.87
4+34	59.66	59.33	54.42	4.91
4+54	58.70	58.37	53.20	5.17
4+74	57.74	57.41	51.99	5.42
4+94	56.78	56.45	50.77	5.68

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SITE PERMIT SET

MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #1 SITE PERMIT ADDENDUM #2 SITE PERMIT ADDENDUM #3 GMP / 90% CD SET BID ADDENDUM #1 CIVIL ADDENDUM 06/28/2013 SEWER, WATER, & JT REV. SFPDW COMMENTS REV. LAGUNA ST. REVSIONS

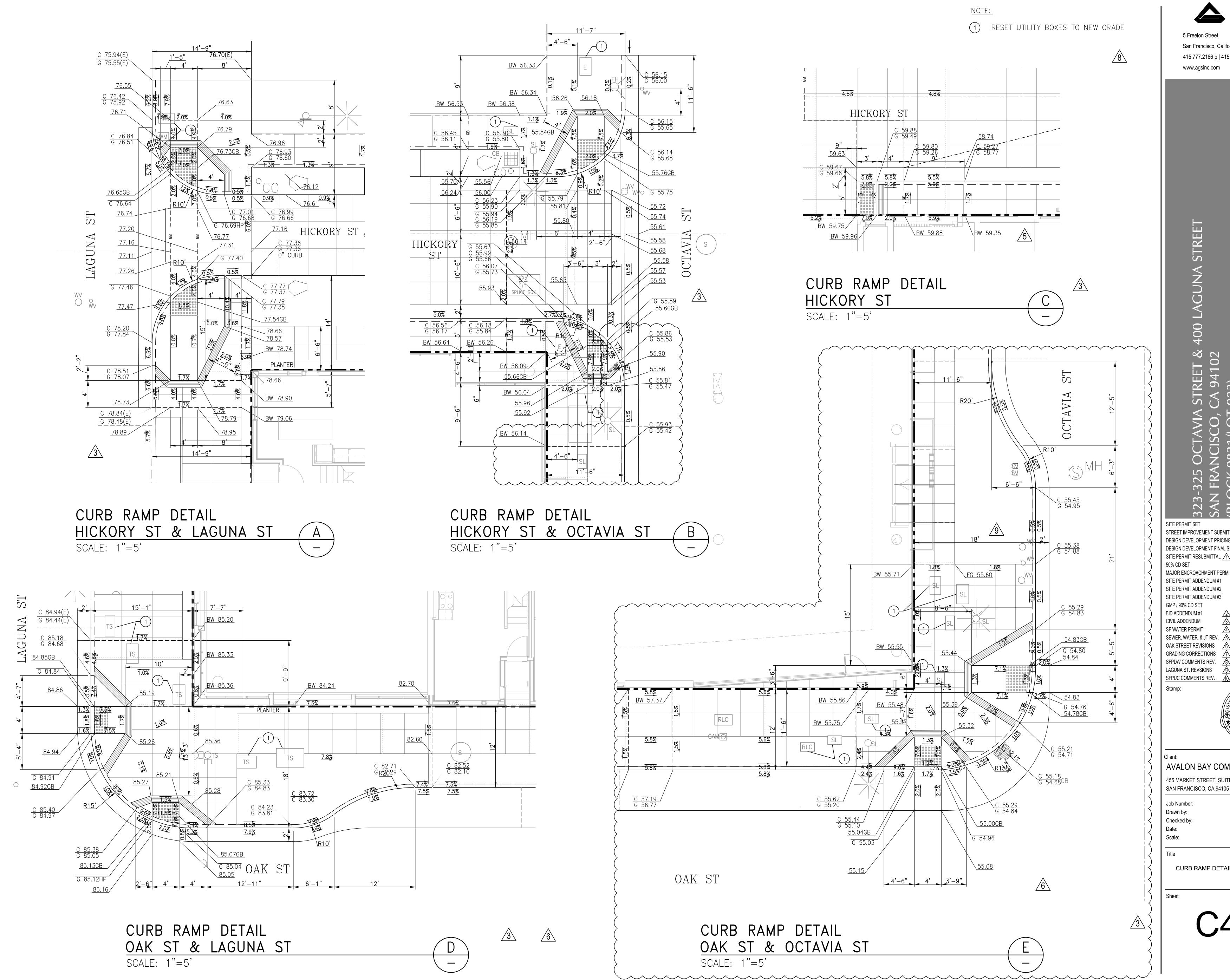


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BIO-RETENTION FACILITY PROFILES



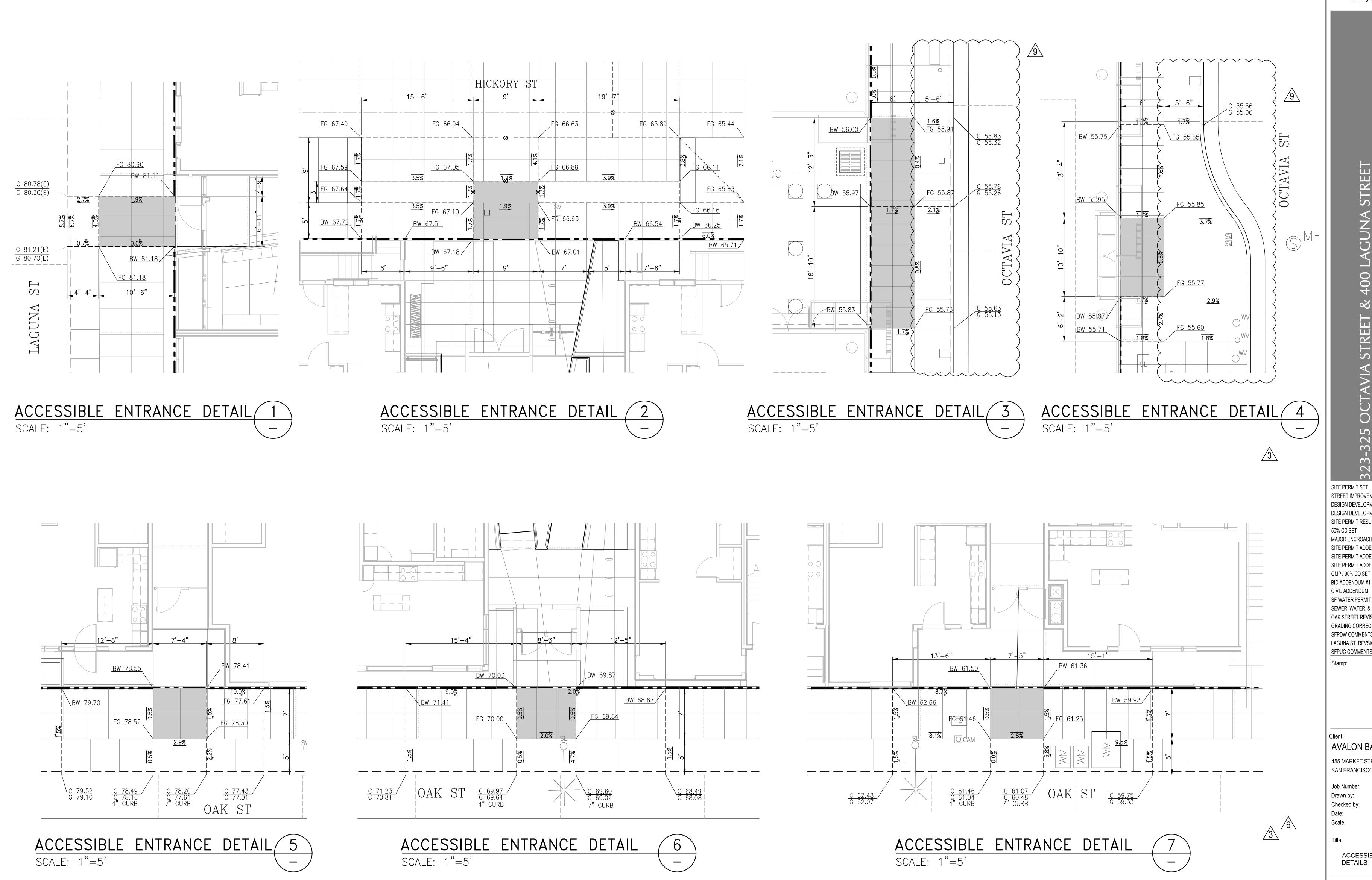
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**CURB RAMP DETAILS** 



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MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #2 SITE PERMIT ADDENDUM #3

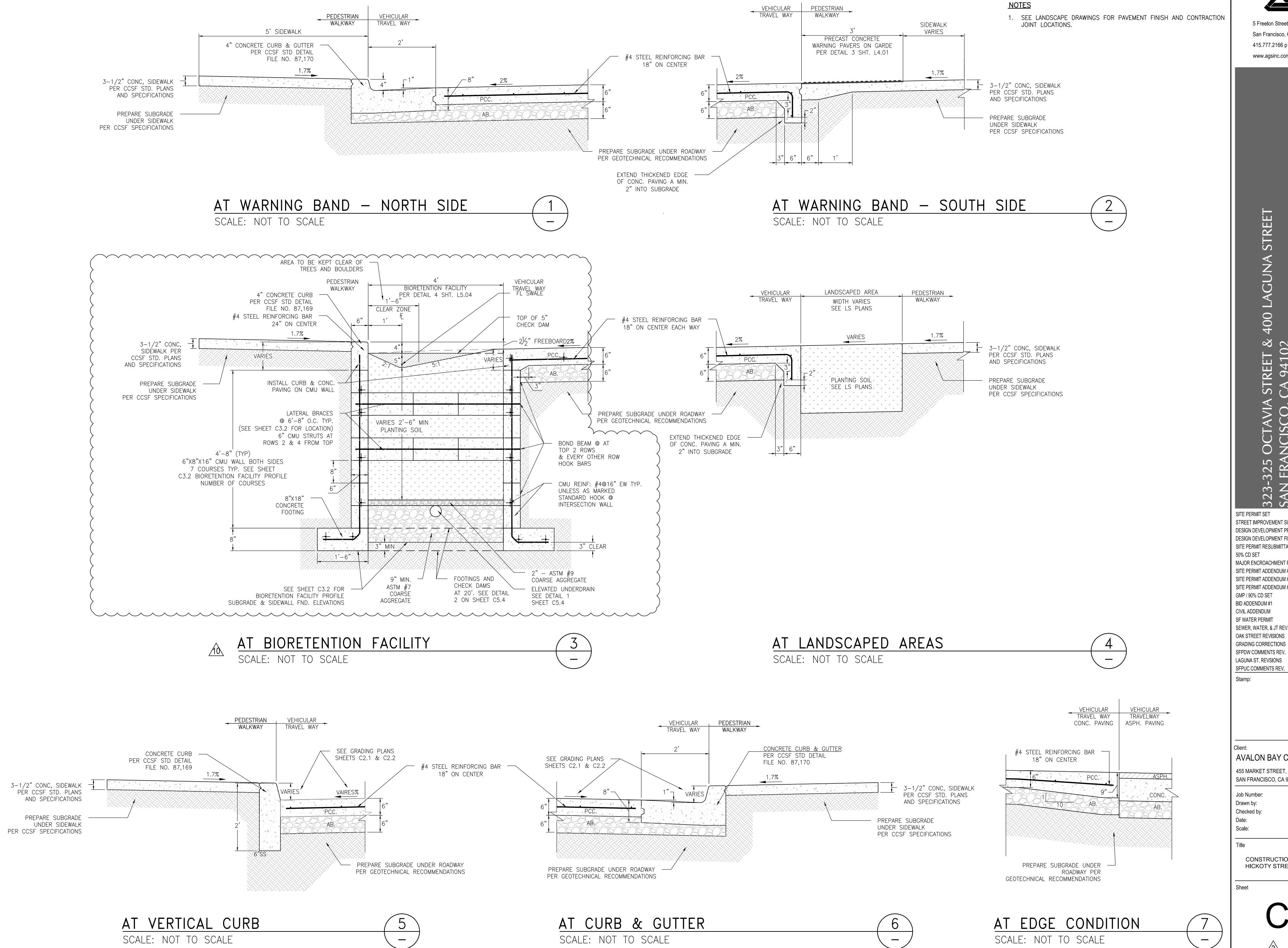
SEWER, WATER, & JT REV. SFPDW COMMENTS REV. LAGUNA ST. REVSIONS SFPUC COMMENTS REV.

AVALON BAY COMMUNITIES 455 MARKET STREET, SUITE 1650

Checked by:

ACCESSIBLE ENTRANCE 23 DETAILS

ACCESSIBLE ENTRANCE AREA



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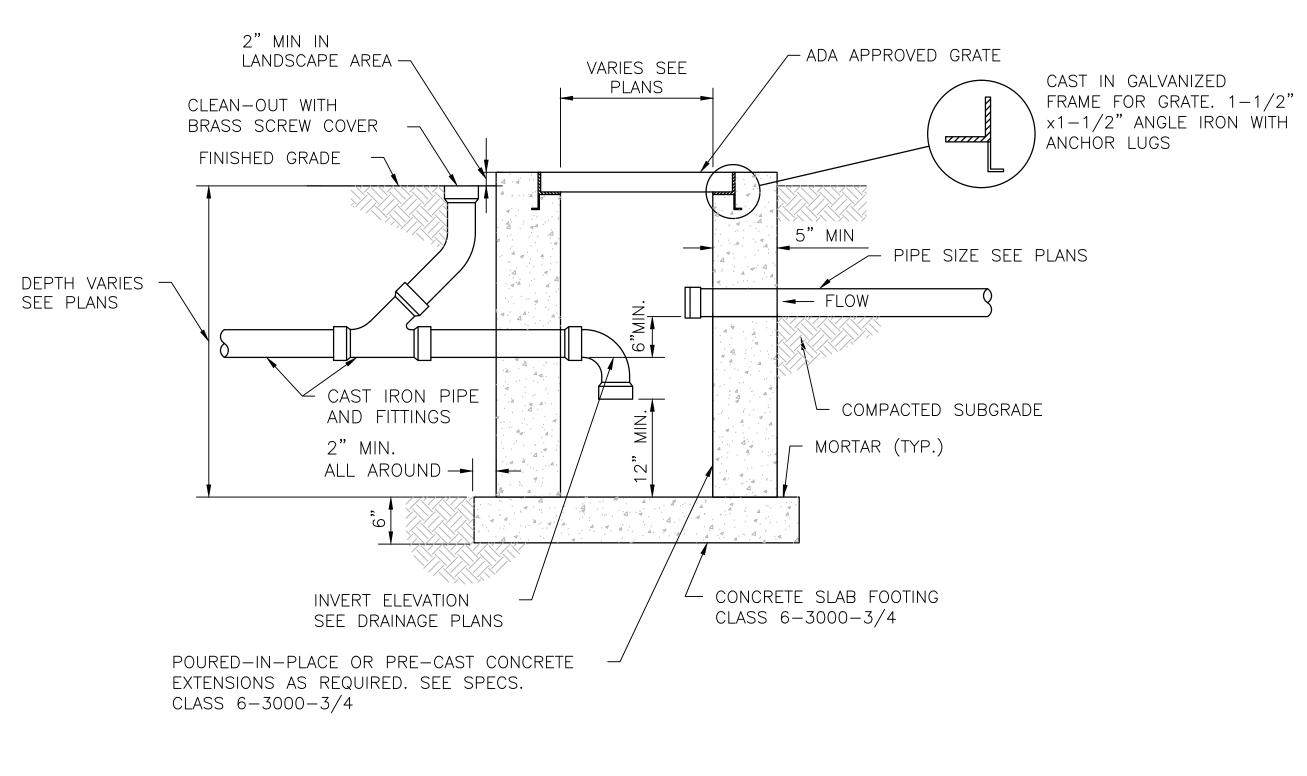
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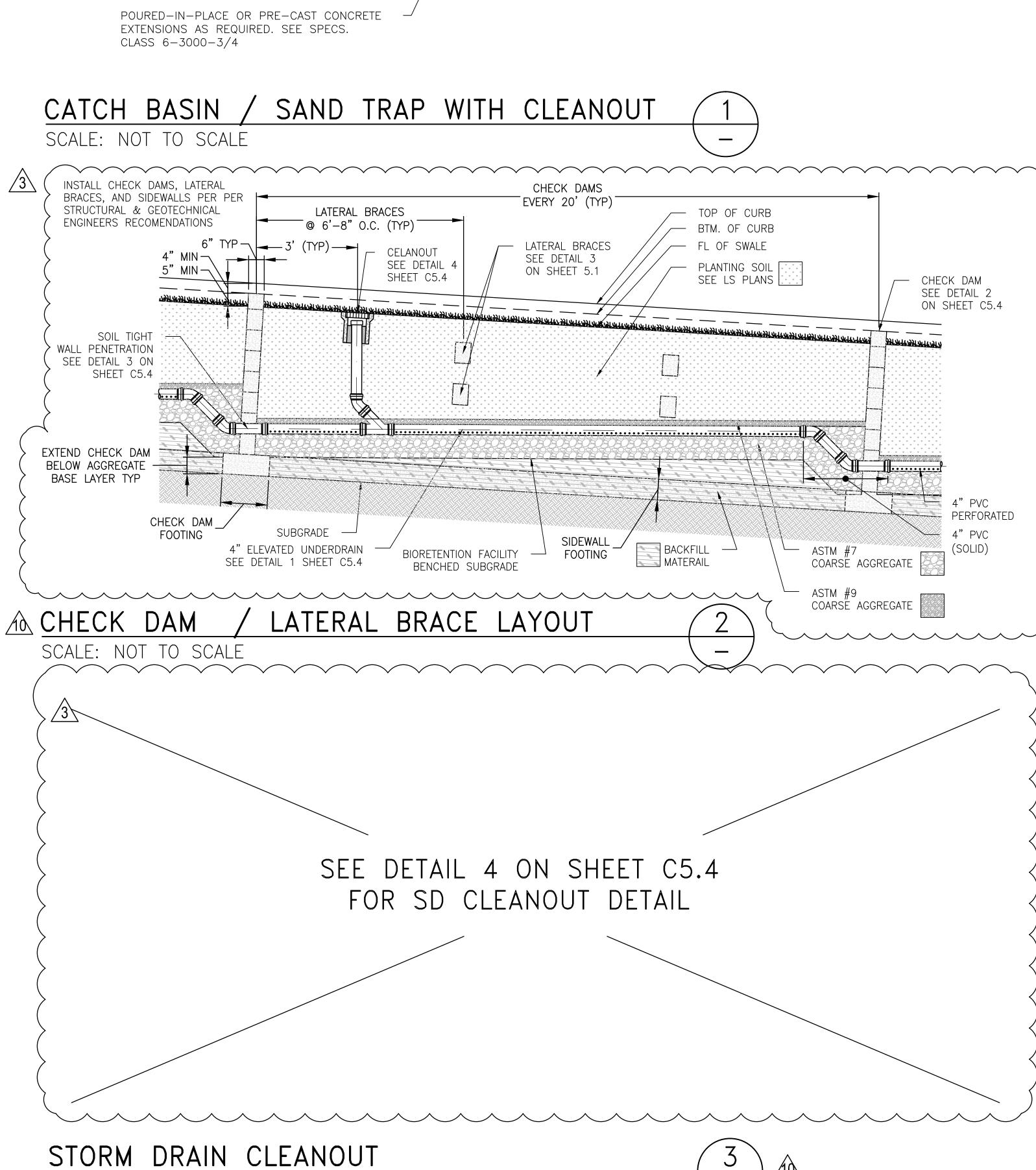
09/24/2014

AVALON BAY COMMUNITIES 455 MARKET STREET, SUITE 1650

SAN FRANCISCO, CA 94105 SEPT. 9, 2014 AS SHOWN

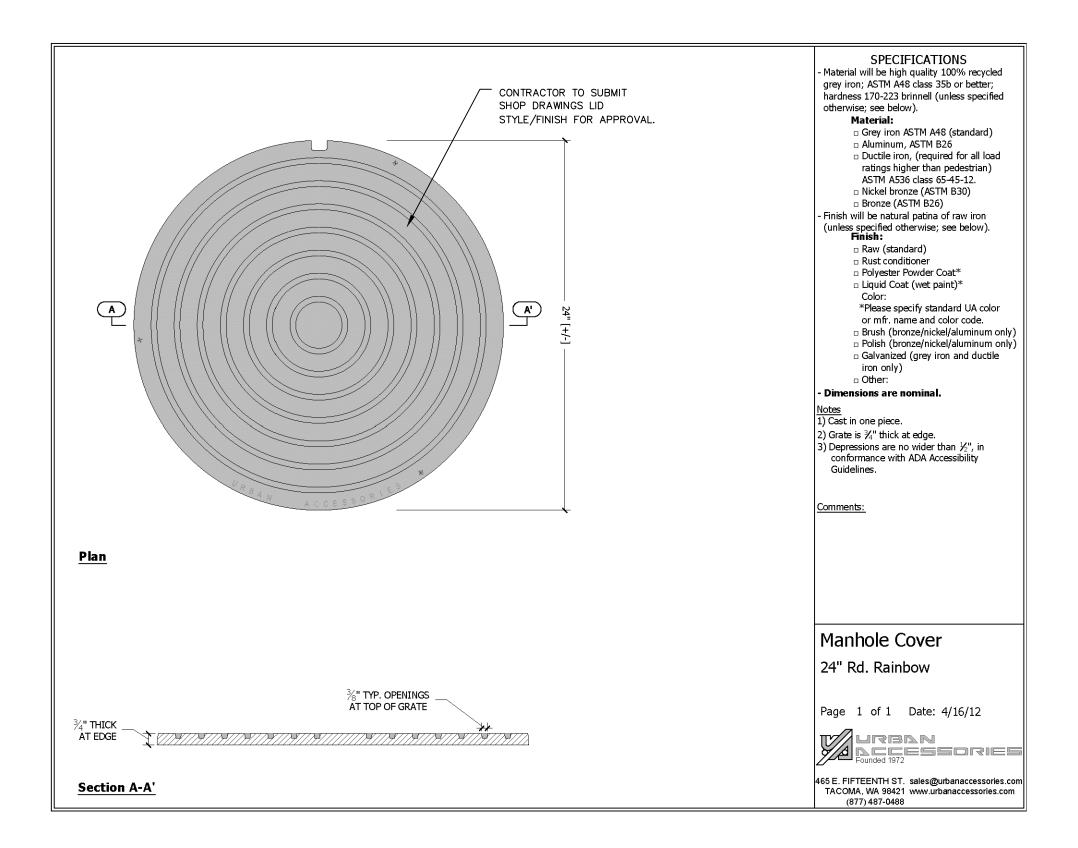
CONSTRUCTION DETAILS HICKOTY STREET SECTIONS

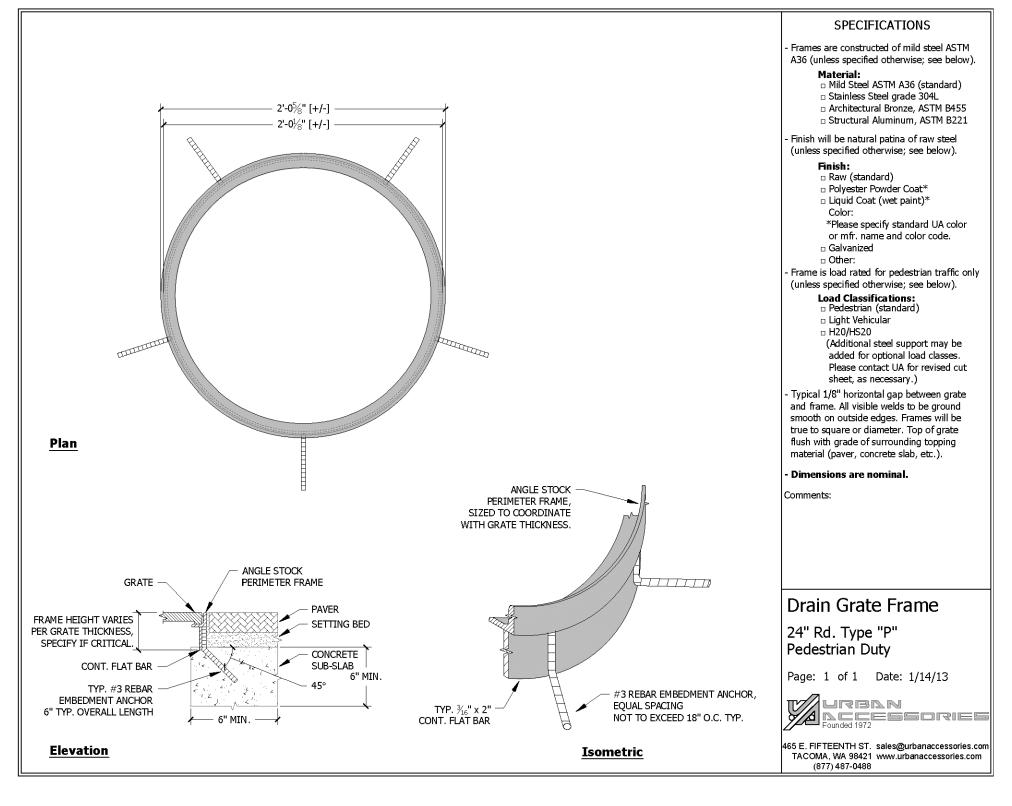




SCALE: NOT TO SCALE

 $\sqrt{3}$ 







# DRYWELL ACCESS COVER DETAIL

SCALE: NOT TO SCALE





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SITE PERMIT SET MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #2 SITE PERMIT ADDENDUM #3 GMP / 90% CD SET BID ADDENDUM #1 CIVIL ADDENDUM SF WATER PERMIT SEWER, WATER, & JT REV. OAK STREET REVISIONS **GRADING CORRECTIONS** SFPDW COMMENTS REV. LAGUNA ST. REVSIONS SFPUC COMMENTS REV.

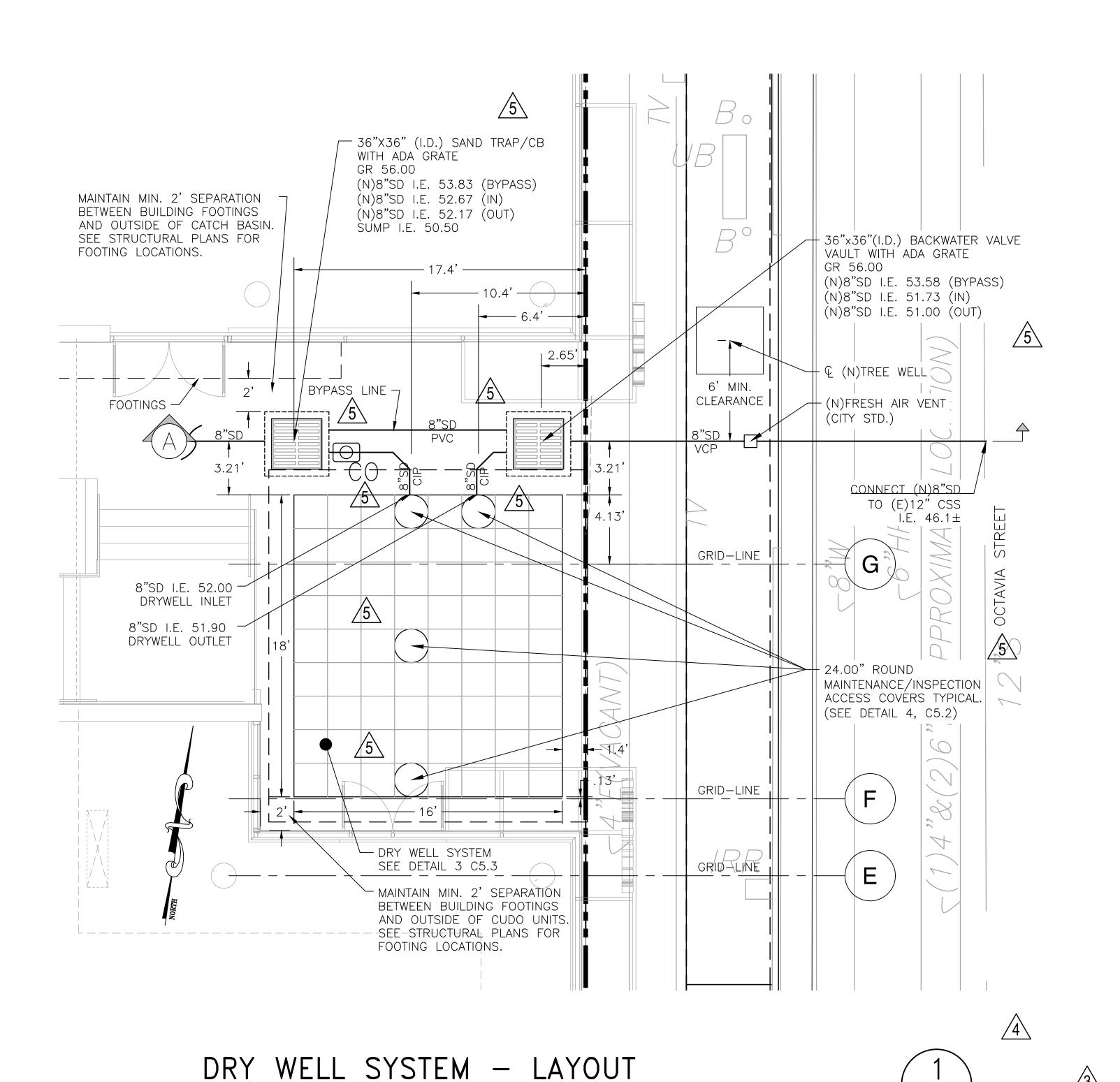
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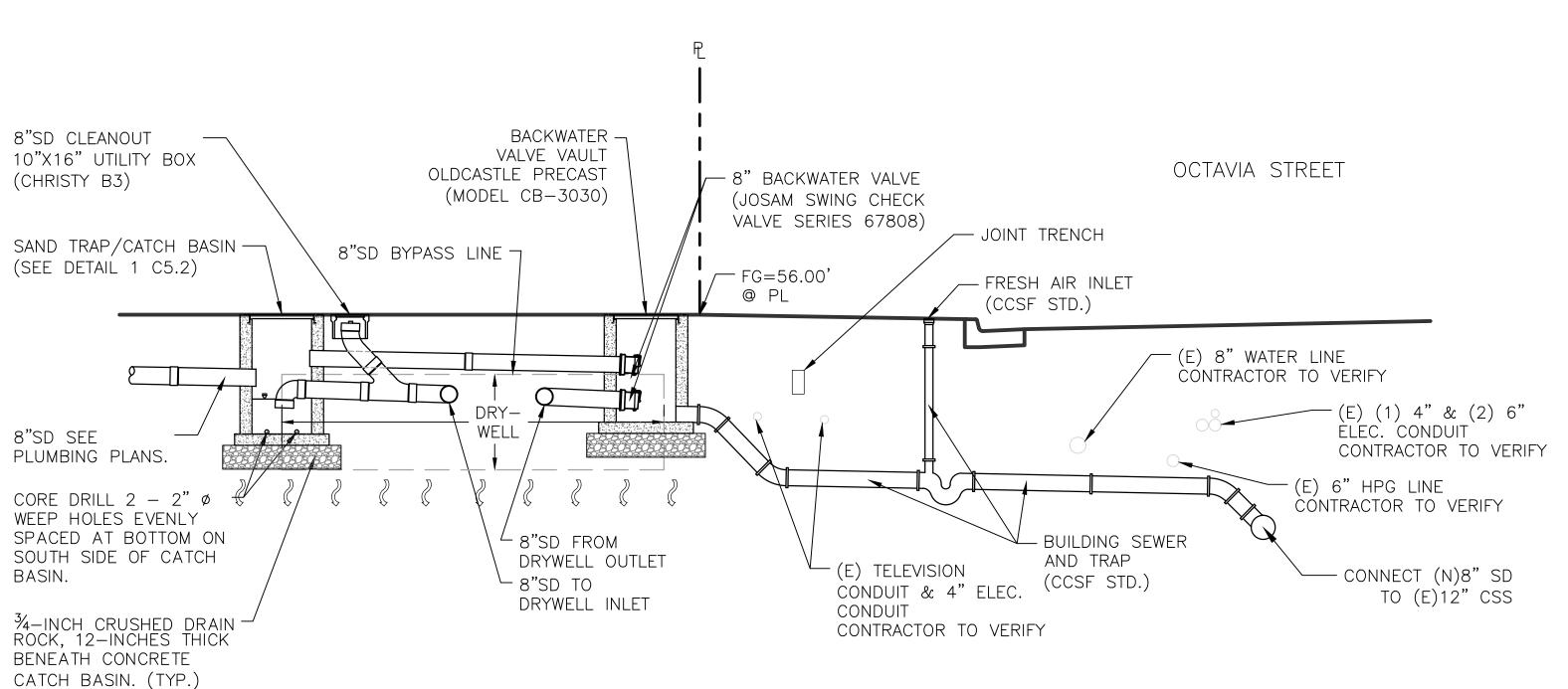
CONSTRUCTION DETAILS





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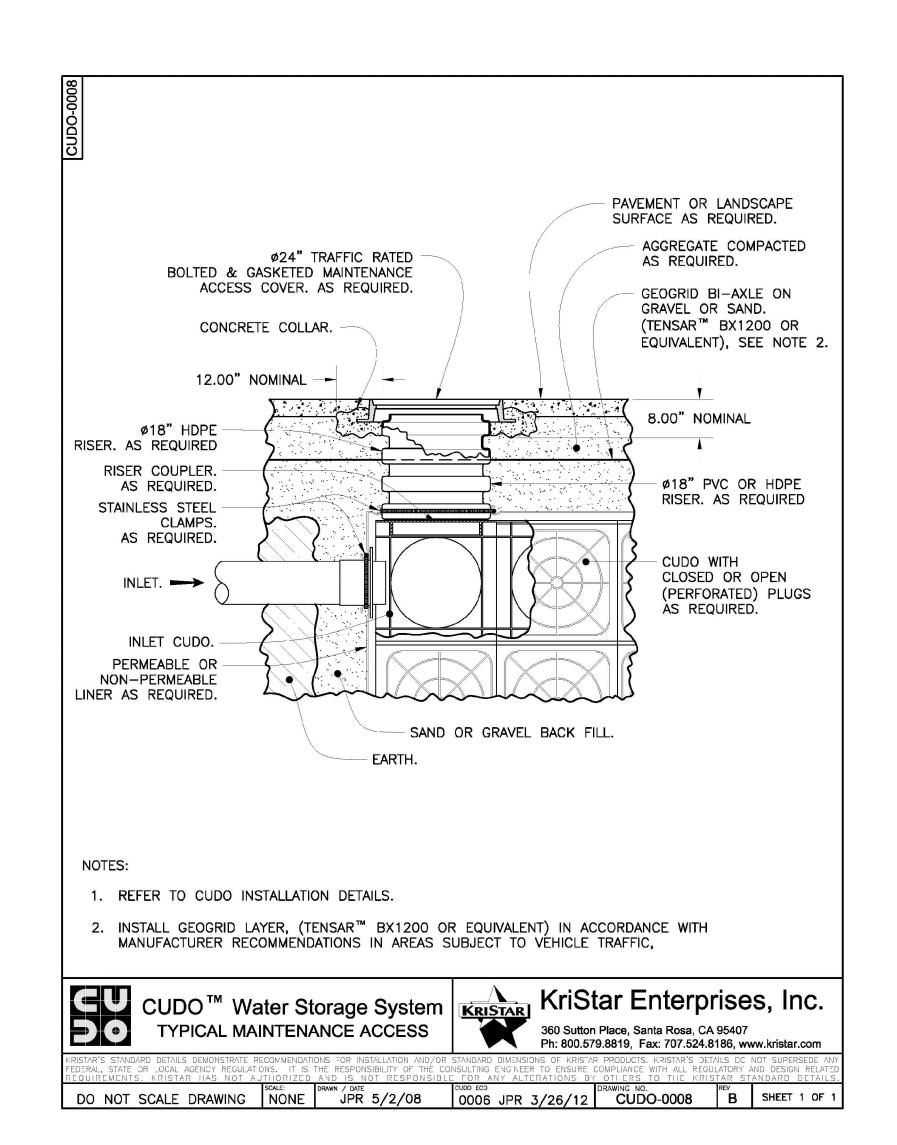
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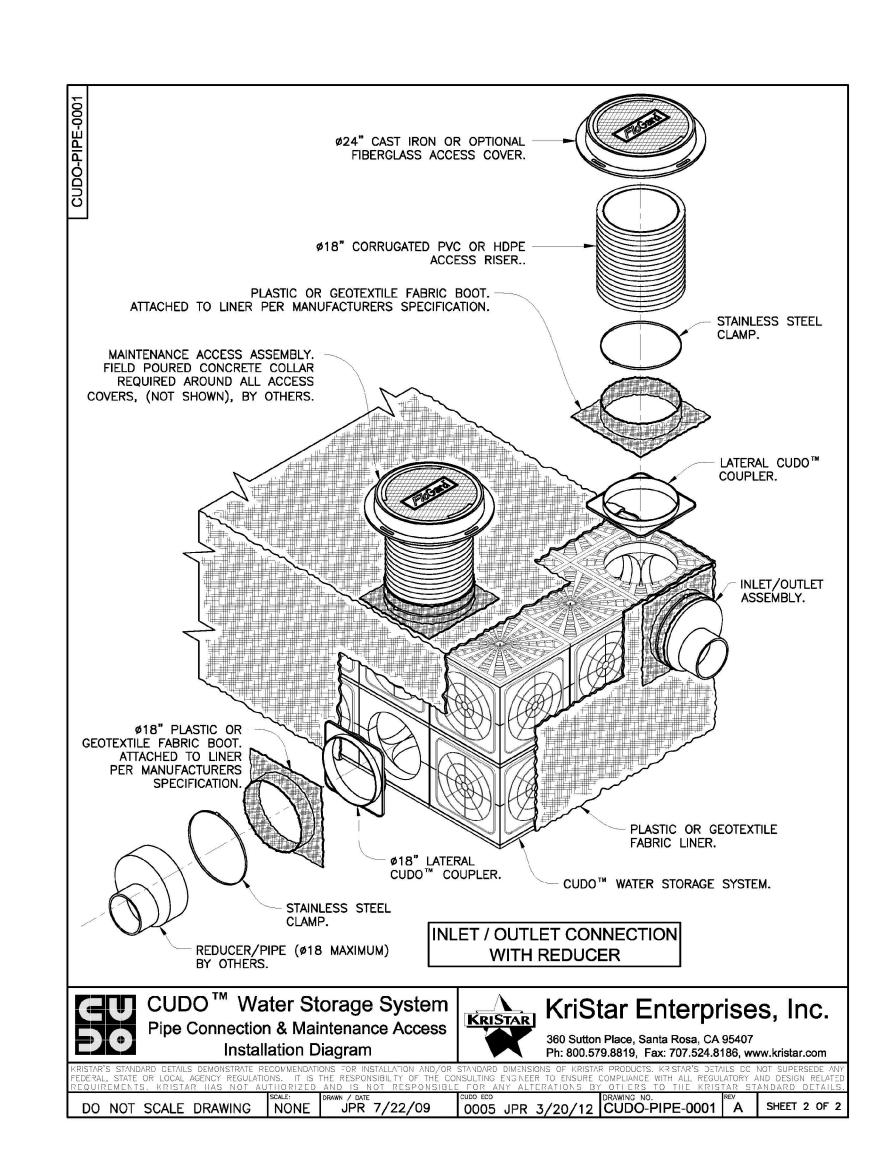


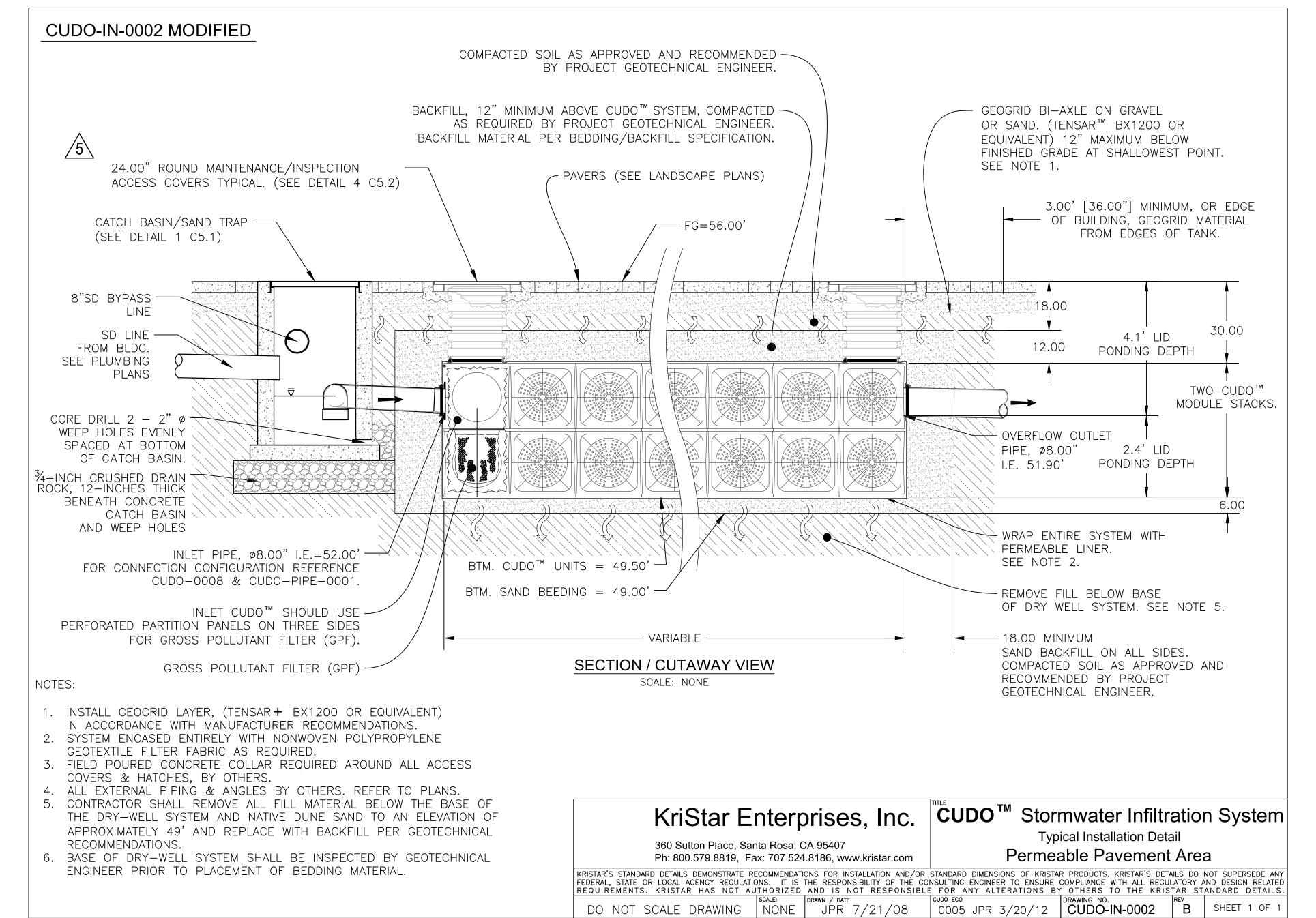
DRY WELL SYSTEM - SECTION A-A

<u>/3\</u>

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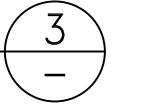






DRY WELL SYSTEM DETAIL

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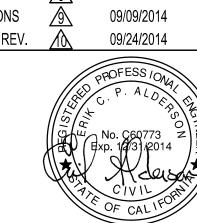


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3 SITE PERMIT SET 10/03/2012 STREET IMPROVEMENT SUBMITTAL 11/01/2012 DESIGN DEVELOPMENT PRICING SET 11/29/2012 DESIGN DEVELOPMENT FINAL SET 01/15/2013 SITE PERMIT RESUBMITTAL 🔨 50% CD SET MAJOR ENCROACHMENT PERMIT SITE PERMIT ADDENDUM #1 03/01/2013 SITE PERMIT ADDENDUM #2 03/25/2013 SITE PERMIT ADDENDUM #3 04/01/2013 GMP / 90% CD SET 04/18/2013 BID ADDENDUM #1 04/26/2013 CIVIL ADDENDUM 06/28/2013 SF WATER PERMIT 07/18/2013 SEWER, WATER, & JT REV. 5 OAK STREET REVISIONS 03/24/2014 GRADING CORRECTIONS 04/08/2014 SFPDW COMMENTS REV. 07/18/2014 LAGUNA ST. REVSIONS SFPUC COMMENTS REV.



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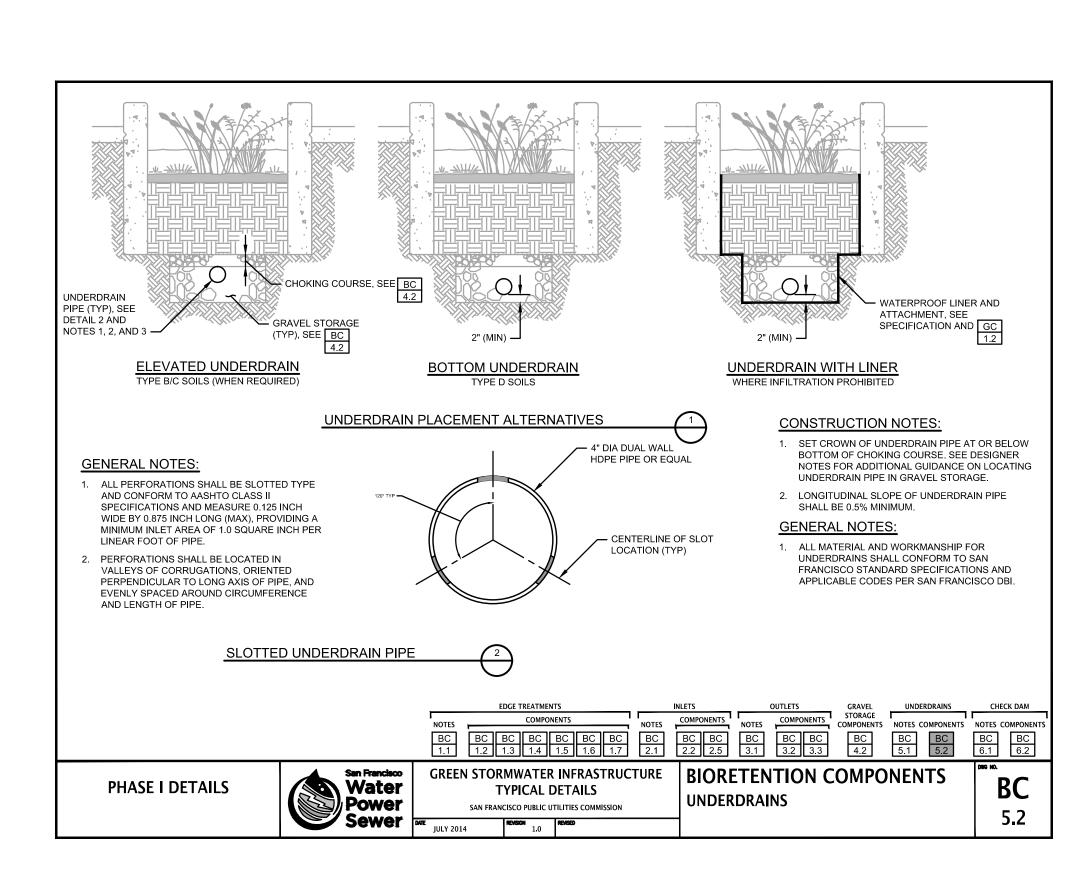
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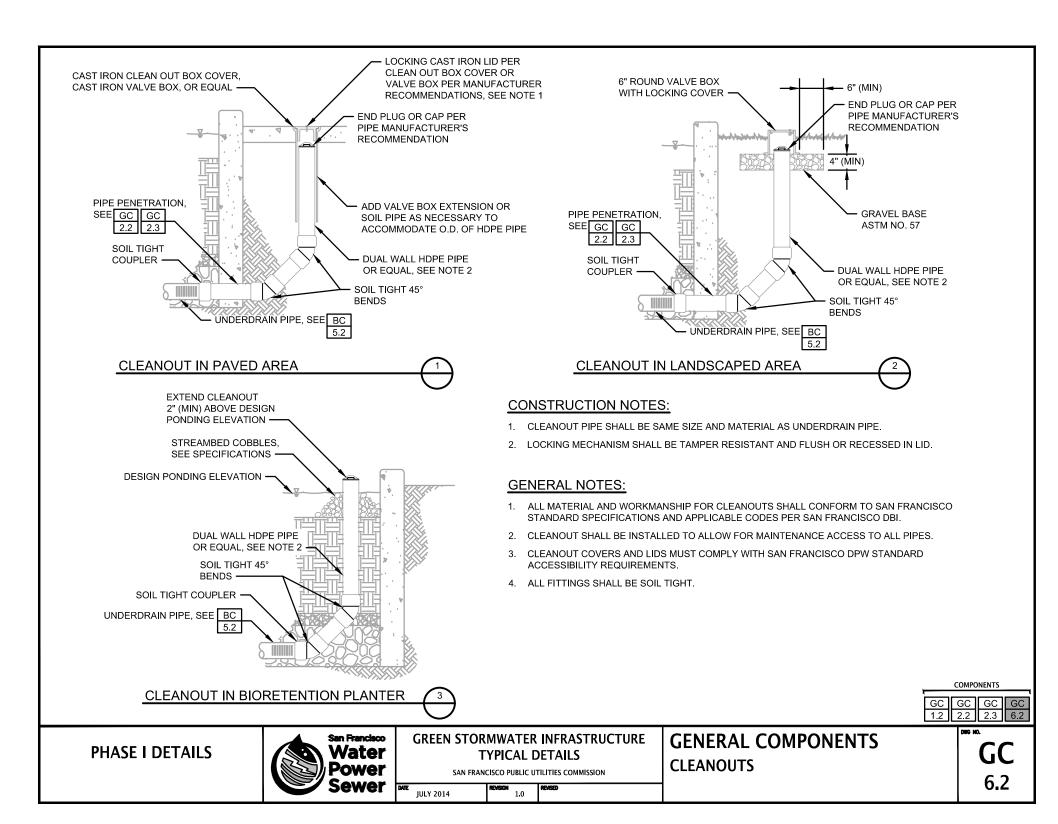
**CONSTRUCTION DETAILS** 

Sheet

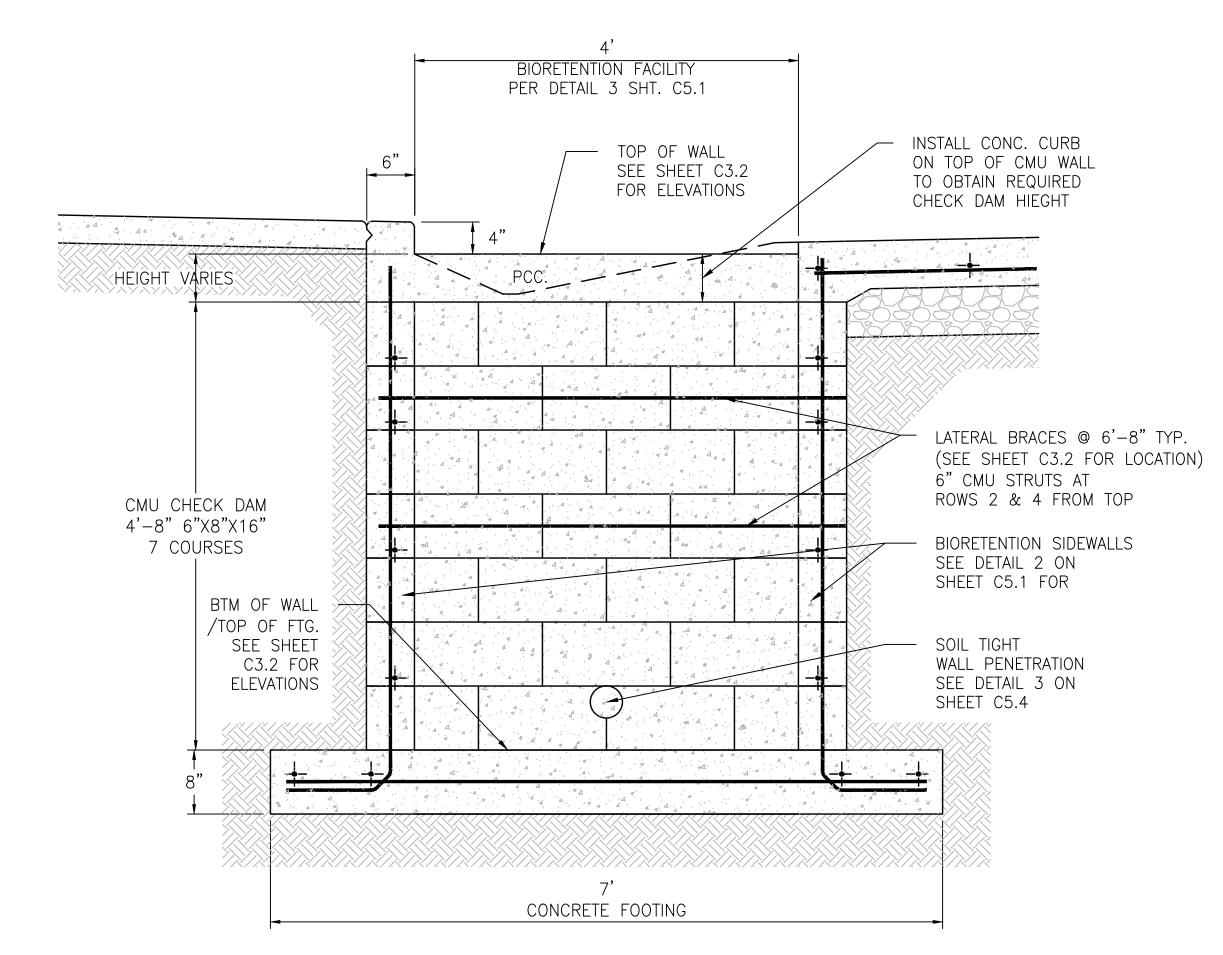




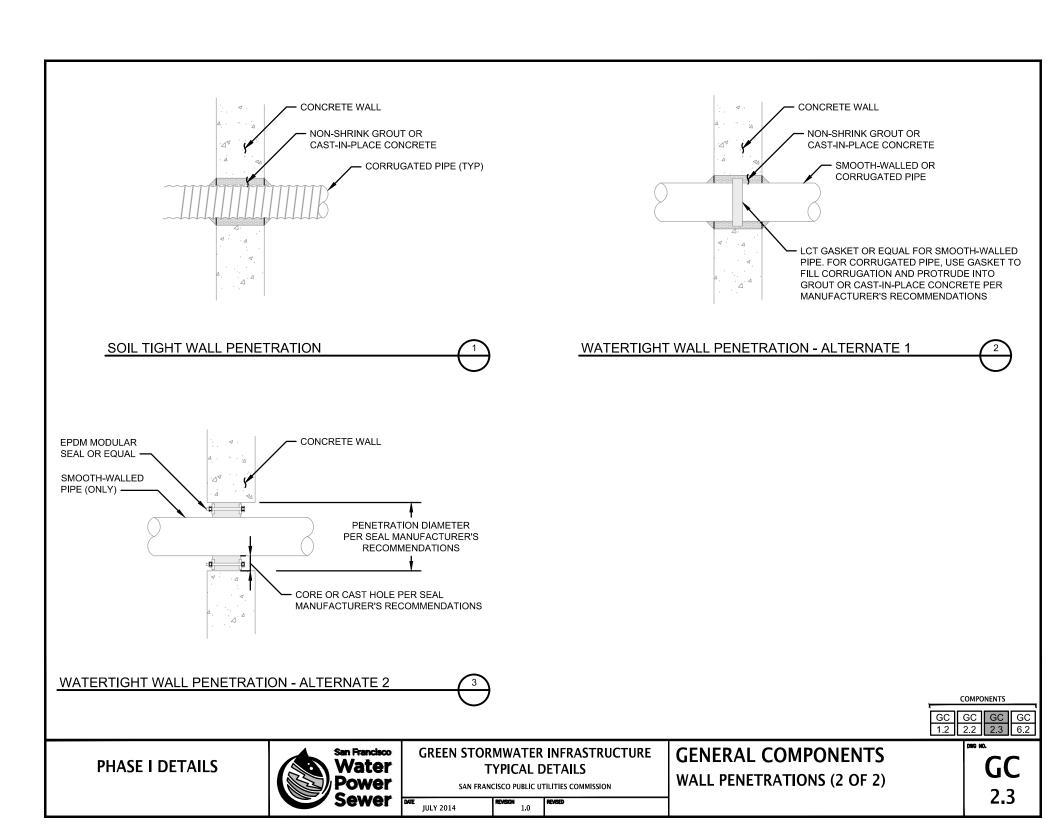










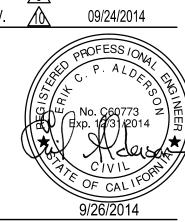




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SFPUC GREEN STROMWATER INFRASTRUCTURE TYPICAL **DETAILS** 

#### EROSION CONTROL GENERAL NOTES

- ALL GRADING WORK SHALL BE WINTERIZED PRIOR TO OCTOBER 15, BY PLACING APPROPRIATES SILT FENCING, SILT FENCE/STRAW BALE DIKES AND STRAW BALES IN A MANNER TO MINIMIZE EROSION AND COLLECT SEDIMENT AND ALSO BY HYDROSEEDING AREAS DISTURBED.
- THIS PLAN IS INTENDED FOR EROSION CONTROL ONLY. OTHER INFORMATION SHOWN HEREIN MAY NOT BE THE MOST CURRENT. SEE GRADING PLAN FOR SLOPE INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FILING ALL PLANS WITH THE RELATED AGENCIES ASSOCIATED WITH THEIR WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PERMITS FOR STORAGE OF HAZARDOUS MATERIALS, BUSINESS PLANS, PERMITS FOR STORAGE OF FLAMMABLE LIQUIDS, GRADING PERMITS, OR OTHER PLANS OR PERMITS REQUIRED BY CCSF. ALL PROPERTY OWNERS, CONTRACTORS, OR SUBCONTRACTORS WORKING ON-SITE ARE INDIVIDUALLY RESPONSIBLE FOR OBTAINING AND SUBMITTING ANY BUSINESS PLANS OR PERMITS REQUIRED BY CITY, STATE OR LOCAL AGENCIES.
- 4. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED, DURING THE RAINY SEASON (OCT. 1 TO MAY 1), UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE OWNER. CHANGES MADE TO SUIT FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION CCSF FOR COMMENT AND APPROVAL
- ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY OR DAILY DURING THE RAINY SEASON.
- IF SIGNIFICANT SEDIMENT OR OTHER VISUAL SYMPTOMS OF IMPURITIES ARE NOTICED IN THE STORM WATER, CONTACT CCSF IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND RESTORATION OF ALL ASPECTS OF THE EROSION CONTROL PLAN. SEDIMENT ON THE SIDEWALKS AND GUTTERS SHALL BE REMOVED BY SHOVEL OR BROOM AND DISPOSED APPROPRIATELY.
- ALL EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO THE ELEMENTS SHOWN ON THIS PLAN OR RELATED DOCUMENTS.
- CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA). THE STORMWATER BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK LATEST RECOMMENDATIONS.
- 10. ALL DUMPSTERS OR OTHER TRASH STORAGE ENCLOSURES SHALL BE UTILIZED SOLELY FOR NON-HAZARDOUS MATERIALS.
- 11. DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THIS SITE SHALL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT- LADEN RUNOFF ENTERS THE STORM DRAIN SYSTEM. THESE PLANS SHALL REMAIN IN EFFECT UNTIL THE IMPROVEMENTS ARE ACCEPTED BY CCSF AND ALL SLOPES ARE STABILIZED.
- 12. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF CCSF
- 13. REMOVE SPOILS PROMPTLY AND AVOID STOCKPILING OF FILL MATERIAL WHEN RAIN IS FORECAST. IF RAIN IS FORECAST OR APPARENT, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH PLASTIC OR A TARP, AT THE REQUEST OF CCSF.
- 14. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES SO AS TO PREVENT THEIR ENTRY INTO THE STORM DRAIN SYSTEM. CONTRACTOR MUST NOT ALLOW CONCRETE, WASHWATERS, SLURRIES, PAINT OR OTHER MATERIALS TO ENTER THE CATCH BASINS, STORM DRAINAGE, OR ENTER SIT RUNOFF.
- 15. USE FILTRATION OR OTHER APPROVED MEASURES TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- NO CLEANING, FUELING OR MAINTAINING VEHICLES ON SITE SHALL BE PERMITTED TO ALLOW DELETERIOUS MATERIALS FROM ENTERING THE CATCH BASINS, STORM DRAINAGE, OR ENTER SITE RUNOFF.
- 17. EROSION CONTROL MEASURES TO BE EMPLOYED PER THE LATEST EDITION OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) "STORMWATER BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK", WHERE APPLICABLE.
- 18. THE CONTRACTOR SHALL SCHEDULE MAJOR GRADING OPERATIONS DURING DRY MONTHS WHEN PRACTICAL. ALLOW ENOUGH TIME BEFORE RAINFALL BEGINS TO STABILIZE THE SOIL WITH VEGETATION OR PHYSICAL MEANS OR TO INSTALL SEDIMENT TRAPPING DEVICES.
- 19. NON-ACTIVE AREAS SHOULD BE STABILIZED AS SOON AS PRACTICAL AFTER THE CESSATION OF SOIL DISTURBING ACTIVITIES OR ONE DAY PRIOR TO THE ONSET OF PRECIPITATION. APPLY PERMANENT EROSION CONTROL TO AREAS DEEMED SUBSTANTIALLY COMPLETE DURING THE PROJECT'S DEFINED SEEDING WINDOW.
- 20. THE CONTRACTOR SHALL MONITOR THE WEATHER FORECAST FOR RAINFALL. WHEN RAINFALL IS PREDICTED, ADJUST THE CONSTRUCTION SCHEDULE TO ALLOW THE IMPLEMENTATION OF SOIL STABILIZATION AND SEDIMENT TREATMENT CONTROLS ON ALL DISTURBED AREAS PRIOR TO THE ONSET OF
- 21. THE CONTRACTOR SHALL BE PREPARED YEAR ROUND TO DEPLOY EROSION CONTROL AND SEDIMENT CONTROL BMPS. KEEP THE SITE STABILIZED YEAR ROUND. AND RETAIN AND MAINTAIN RAINY SEASON SEDIMENT TRAPPING DEVICES IN OPERATIONAL CONDITION.

#### SILT FENCE MATERIALS

- 1. FILTER FABRIC SHALL BE A PERVIOUS SHEET OF SYNTHETIC POLYMER COMPOSED OF AT LEAST 85% BY WEIGHT ETHYLENE, PROPYLENE, AMIDE. ESTER OF VINYLIDENE YARN, WOVEN OR NOW WOVEN, AND SHALL CONTAIN STABILIZERS AND/OR INHIBITORS TO RESIST DETERIORATION BY HEAT, WATER AND ULTRAVIOLET LIGHT. THE FABRIC SHALL CONFORM TO THE FOLLOWING
  - A. THE EQUIVALENT OPENING SIZE (U.S. STANDARD SIEVE) SHALL BE WITHIN THE RANGE 70-100.
  - B. THE TENSILE STRENGTH (ATSM D1682G) SHALL BE AT LEAST 120 POUNDS. THE STRENGTH OF FABRIC REQUIRED DEPENDS ON THE WIRE SUPPORT FENCE. IF EXTRA—STRENGTH FABRIC IS USED WITHOUT A SUPPORT FENCE, THE STRENGTH REQUIRED SHALL BE 200 POUNDS MINIMUM WITH POSTS SPACED ON 6 FOOT CENTERS.
- 2. POSTS FOR SILT FENCES SHALL BE EITHER 4-INCH-DIAMETER WOOD OR 1.33-POUNDS-PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
- WIRE FENCE REINFORCEMENT FOR SILT FENCES SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, SHALL BE A MINIMUM OF 14-GAUGE. AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 FEET.

#### SILT FENCE CONSTRUCTION SPECIFICATIONS

- 1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. ON SLOPES, THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE. IN SMALL SWALES, THE FENCE LINE SHALL BE CURVED UPSTREAM AT THE SIDES TO DIRECT THE FLOW TOWARD THE MIDDLE OF THE FENCE.
- 2. IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- 3. STEEL POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA-STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, OR WOOD POST ARE UTILIZED, POST SPACING SHALL NOT EXCEED 6 FEET.
- 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LIE OF POST AND UPSLOPE FROM THE BARRIER.
- 5. WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 6. THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- 7. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRE DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF NO. 6 ABOVE APPLYING.
- 8. THE TRENCH SHALL BE BACK FILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY

#### SILT FENCE MAINTENANCE

- 1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL AND REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE BARRIER'S EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
- 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

#### CONSTRUCTION ENTRANCE DESIGN & CONSTRUCTION SPECIFICATIONS

- 1. THE MATERIAL FOR CONSTRUCTION OF THE PAD ENTRANCE SHALL BE BETWEEN 2 TO 3 INCH ROCK/STONE.
- 2. THE THICKNESS OF THE PAD ENTRANCE SHALL NOT BE LESS THAN 8 INCHES.
- 3. THE WIDTH OF THE PAD ENTRANCE SHALL NOT BE LESS THAN THE FULL

WIDTH OF ALL POINTS ON INGRESS OR EGRESS.

- 4. THE LENGTH OF THE PAD ENTRANCE SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
- 5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR LEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
- 6. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN. DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
- 7. CONSTRUCTION ENTRANCE SHALL BE COORDINATED IN THE FIELD WITH CITY INSPECTORS APPROVAL.

# DUST CONTROL

ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE CITY OR OWNER, THE CONTRACTOR SHALL UTILIZE ONE OF THE FOLLOWING METHODS TO CONTROL DUST:

- 1. WATER THE EXPOSED SOIL SURFACED SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
- 2. CALCIUM CHLORIDE SHOULD BE EITHER LOOSE DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH A SPREADER AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.

#### POLLUTION PREVENTION — IT'S PART OF THE PLAN

MAKE SURE YOUR CREWS AND SUBS DO THE JOB RIGHT! RUNOFF FROM STREET AND OTHER PAVED AREAS IS A MAJOR SOURCE OF POLLUTION AND DAMAGE TO CREEKS AND THE SAN FRANCISCO BAY. CONSTRUCTION ACTIVITIES CAN DIRECTLY AFFECT THE HEALTH OF CREEK AND THE BAY UNLESS CONTRACTORS AND CREWS PLAN AHEAD TO KEEP DIRT, DEBRIS, AND OTHER CONSTRUCTION WASTE AWAY FROM STORM DRAINS AND LOCAL CREEKS. FOLLOWING THESE GUIDELINES AND THE PROJECT SPECIFICATIONS WILL ENSURE YOUR COMPLIANCE WITH CITY OF OAKLAND REQUIREMENTS.

#### MATERIALS STORAGE & SPILL CLEANUP NON-HAZARDOUS MATERIALS MANAGEMENT

- 1. SAND, DIRT, AND SIMILAR MATERIALS MUST BE STORED AT LEAST 10 FEET (3 METERS) FROM CATCH BASINS. ALL CONSTRUCTION MATERIALS MUST BE COVERED WITH A TARP AND CONTAINED WITH A PERIMETER CONTROL DURING WET WEATHER OR WHEN RAIN IS FORECASTED OR WHEN NOT ACTIVELY BEING USED WITHIN 14 DAYS.
- 2. USE (BUT DON'T OVERUSE) RECLAIMED WATER FOR DUST CONTROL AS
- 3. SWEEP OR VACUUM STREETS AND OTHER PAVED AREAS DAILY. DO NOT WASH DOWN STREETS OR WORK AREAS WITH WATER!
- 4. RECYCLE ALL ASPHALT, CONCRETE, AND AGGREGATE BASE MATERIAL FROM DEMOLITION ACTIVITIES.
- 5. CHECK DUMPSTERS REGULARLY FOR LEAKS AND TO MAKE SURE THEY ARE NOT OVERFILLED. REPAIR OR REPLACE LEAKING DUMPSTERS PROMPTLY.
- 6. COVER ALL DUMPSTERS WITH A TARP AT THE END OF EVERY WORK DAY OR DURING WET WEATHER.

#### HAZARDOUS MATERIALS MANAGEMENT

- 1. LABEL ALL HAZARDOUS MATERIALS AND HAZARDOUS WASTES (SUCH AS PESTICIDES, PAINTS, THINNERS, SOLVENTS, FUEL, OIL, AND ANTIFREEZE) IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
- 2. STORE HAZARDOUS MATERIALS AND WASTES IN WATER TIGHT CONTAINERS, STORE IN APPROPRIATE SECONDARY CONTAINMENT AND COVER THEM AT THE END OF EVERY WORK DAY OR DURING WET WEATHER OR WHEN RAIN IS FORECASTED.
- 3. FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS FOR HAZARDOUS MATERIALS AND BE CAREFUL NOT TO USE MORE THAN NECESSARY. DO NOT APPLY CHEMICALS OUTDOORS WHEN RAIN IS FORECAST WITHIN 24 HOURS.
- 4. BE SURE TO ARRANGE FOR APPROPRIATE DISPOSAL OF ALL HAZARDOUS WASTES.

#### SPILL PREVENTION AND CONTRO

- 1. KEEP A STOCKPILE OF SPILL CLEANUP MATERIALS (RAGS, ABSORBENTS, ETC.)
- WHEN SPILLS OR LEAKS OCCUR, CONTAIN THEM IMMEDIATELY AND BE PARTICULARLY CAREFUL TO PREVENT LEAKS AND SPILLS FROM REACHING THE GUTTER, STREET, OR STORM DRAIN. NEVER WASH SPILLED MATERIAL INTO A GUTTER, STREET, STORM DRAIN, OR CREEK!
- 3. DISPOSE OF ALL CONTAINMENT AND CLEANUP MATERIALS PROPERLY.
- 4. REPORT ANY HAZARDOUS MATERIALS SPILLS IMMEDIATELY! DIAL 911 OR CITY OF SAN FRANCISCO PUBLIC WORKS AT (415) 554-6920.

#### CONSTRUCTION ENTRANCES AND PERIMETER

- 1. ESTABLISH AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM SITE AND TRACKING OFF SITE.
- 2. SWEEP OR VACUUM ANY STREET TRACKING IMMEDIATELY AND SECURE SEDIMENT SOURCE TO PREVENT FURTHER TRACKING.
- VEHICLE AND EQUIPMENT MAINTENANCE & CLEANING
- 1. INSPECT VEHICLES AND EQUIPMENT FOR LEAKS FREQUENTLY. USE DRIP PANS TO CATCH LEAKS UNTIL REPAIRS ARE MADE; REPAIR LEAKS PROMPTLY.
- 2. FUEL AND MAINTAIN VEHICLES ON SITE ONLY IN A BERMED AREA OR OVER A DRIP PAN THAT IS BIG ENOUGH TO PREVENT RUNOFF.
- 3. IF YOU MUST CLEAN VEHICLES OR EQUIPMENT ON SITE, CLEAN WITH WATER ONLY IN A BERMED AREA THAT WILL NOT ALLOW RINSE WATER TO RUN INTO GUTTERS, STREETS, STORM DRAINS, OR CREEKS.
- 4. DO NOT CLEAN VEHICLES OR EQUIPMENT ON-SITE USING SOAPS, SOLVENTS, DEGREASERS. STEAM CLEANING EQUIPMENT, ETC.

#### EARTHWORK & CONTAMINATED SOILS

DOWN-SLOPE UNTIL SOIL IS SECURE.

- 1. KEEP EXCAVATED SOIL ON THE SITE WHERE IT IS LEAST LIKELY TO COLLECT IN THE STREET.
- 2. TRANSFER TO DUMP TRUCKS SHOULD TAKE PLACE ON THE SITE, NOT IN THE
- 3. USE FIBER ROLLS, SILT FENCES, OR OTHER CONTROL MEASURES TO MINIMIZE THE FLOW OF SILT OFF THE SITE.
- 4. EARTH MOVING ACTIVITIES ARE ONLY ALLOWED DURING DRY WEATHER BY
- MATURE VEGETATION IS THE BEST FORM OF EROSION CONTROL. MINIMIZE

PERMIT AND AS APPROVED BY THE CITY OF OAKLAND IN THE FIELD.

6. IF YOU DISTURB A SLOPE DURING CONSTRUCTION, PREVENT EROSION BY SECURING THE SOIL WITH EROSION CONTROL FABRIC. OR SEED WITH FAST GROWING GRASSES AS SOON AS POSSIBLE. PLACE FIBER ROLLS

DISTURBANCE TO EXISTING VEGETATION WHENEVER POSSIBLE.

7. IF YOU SUSPECT CONTAMINATION (FROM SITE HISTORY, DISCOLORATION, ODOR, TEXTURE, ABANDONED UNDERGROUND TANKS OR PIPES, OR BURIED DEBRIS), CALL THE ENGINEER FOR HELP IN DETERMINING WHAT TESTING SHOULD BE DONE, AND MANAGE DISPOSAL OF CONTAMINATED SOIL ACCORDING TO THEIR INSTRUCTIONS.

#### SAW CUTTING

- 1. ALWAYS COMPLETELY COVER OR BARRICADE STORM DRAIN INLETS WHEN SAW CUTTING. USE FILTER FABRIC, CATCH BASIN INLET FILTERS, OR SAND/GRAVEL BAGS TO KEEP SLURRY OUT OF THE STORM DRAIN SYSTEM.
- 2. SHOVEL, ABSORB, OR VACUUM SAW-CUT SLURRY AND PICK UP ALL WASTE AS SOON AS YOU ARE FINISHED IN ONE LOCATION OR AT THE END OF EACH WORK DAY (WHICHEVER IS SOONER!).
- 3. IF SAW CUT SLURRY ENTERS A CATCH BASIN, CLEAN IT UP IMMEDIATELY.

#### PAVING/ASPHALT WORK

- 1. ALWAYS COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, OR FOG SEAL.
- 2. PROTECT GUTTERS, DITCHES, AND DRAINAGE COURSES WITH SAND/GRAVEL BAGS. OR EARTHEN BERMS
- 3. DO NOT SWEEP OR WASH DOWN EXCESS SAND FROM SAND SEALING INTO

THE STOCKPILE, OR DISPOSE OF IT AS TRASH.

4. DO NOT USE WATER TO WASH DOWN FRESH ASPHALT CONCRETE PAVEMENT.

#### CONCRETE, GROUT, AND MORTAR STORAGE & WASTE DISPOSAL

GUTTERS, STORM DRAINS, OR CREEKS, COLLECT SAND AND RETURN IT TO

- 1. STORE CONCRETE, GROUT, AND MORTAR UNDER COVER, ON PALLETS, AND AWAY FROM DRAINAGE AREAS. THESE MATERIALS MUST NEVER REACH A STORM DRAIN.
- WASH OUT CONCRETE EQUIPMENT/TRUCKS OFF-SITE OR INTO CONTAINED WASHOUT AREAS THAT WILL NOT ALLOW DISCHARGE OF WASH WATER INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.
- 3. COLLECT THE WASH WATER FROM WASHING EXPOSED AGGREGATE CONCRETE AND REMOVE IT FOR APPROPRIATE DISPOSAL OFF SITE.

- 1. NEVER RINSE PAINT BRUSHES OR MATERIALS IN A GUTTER OR STREET!
- 2. PAINT OUT EXCESS WATER-BASED PAINT BEFORE RINSING BRUSHES, ROLLERS, OR CONTAINERS IN A SINK.
- 3. PAINT OUT EXCESS OIL-BASED PAINT BEFORE CLEANING BRUSHES IN THINNER.
- 4. FILTER PAINT THINNERS AND SOLVENTS FOR REUSE WHENEVER POSSIBLE. DISPOSE OF OIL-BASED PAINT SLUDGE AND UNUSABLE THINNER AS HAZARDOUS WASTE.

#### LANDSCAPE MATERIALS

- 1. CONTAIN, COVER, AND STORE ON PALLETS ALL STOCKPILED LANDSCAPE MATERIALS (MULCH, COMPOST, FERTILIZERS, ETC.) DURING WET WEATHER OR WHEN RAIN IS FORECASTED OR WHEN NOT ACTIVELY BEING USED WITHIN 14
- 2. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS OF FORECASTED RAIN AND DURING WET WEATHER.

STORM DRAIN POLLUTERS MAY BE LIABLE FOR FINES OF \$10,000 OR MORE PER



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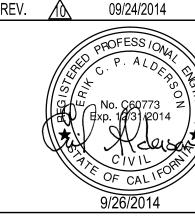
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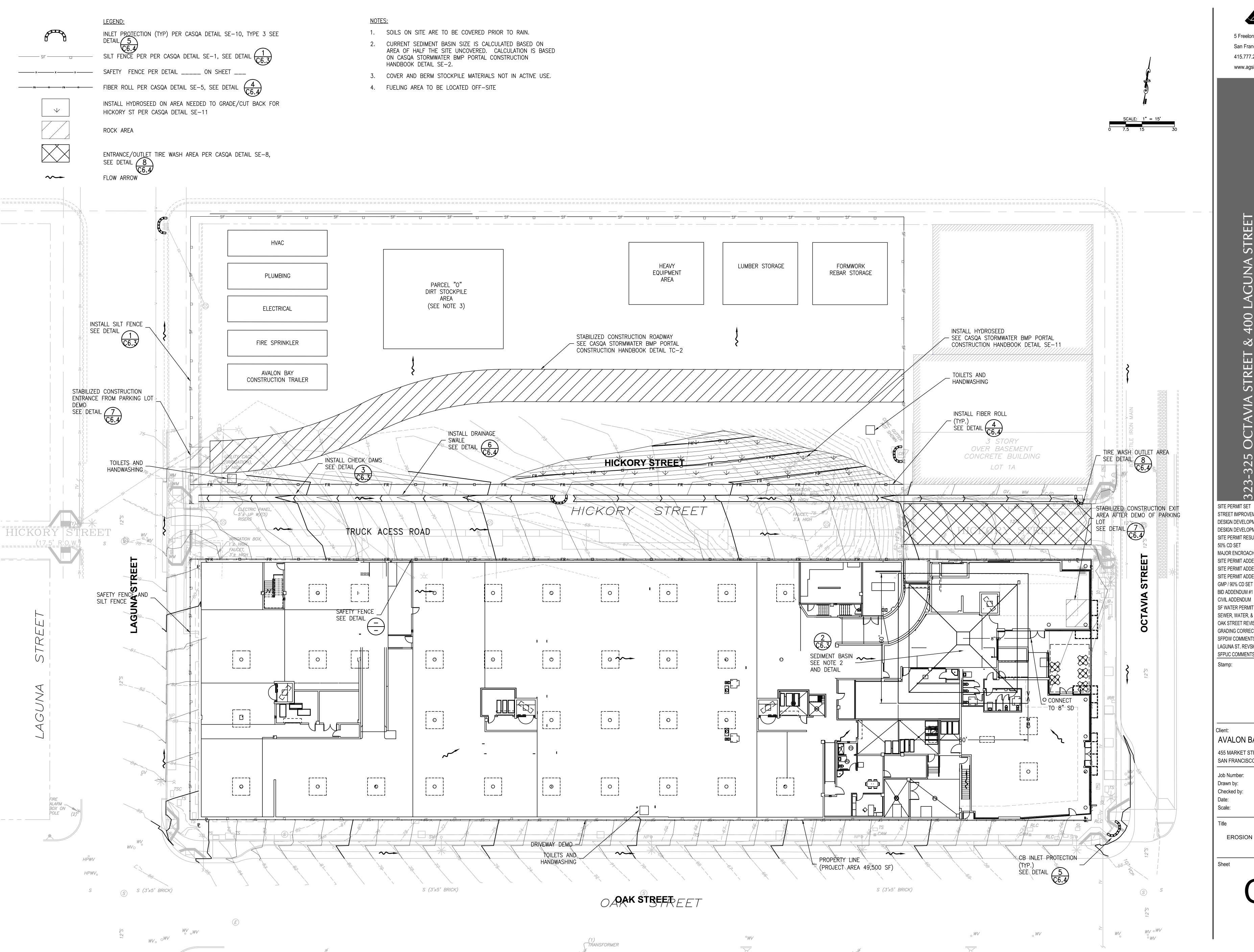
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**EROSION CONTROL GENERAL NOTES** 



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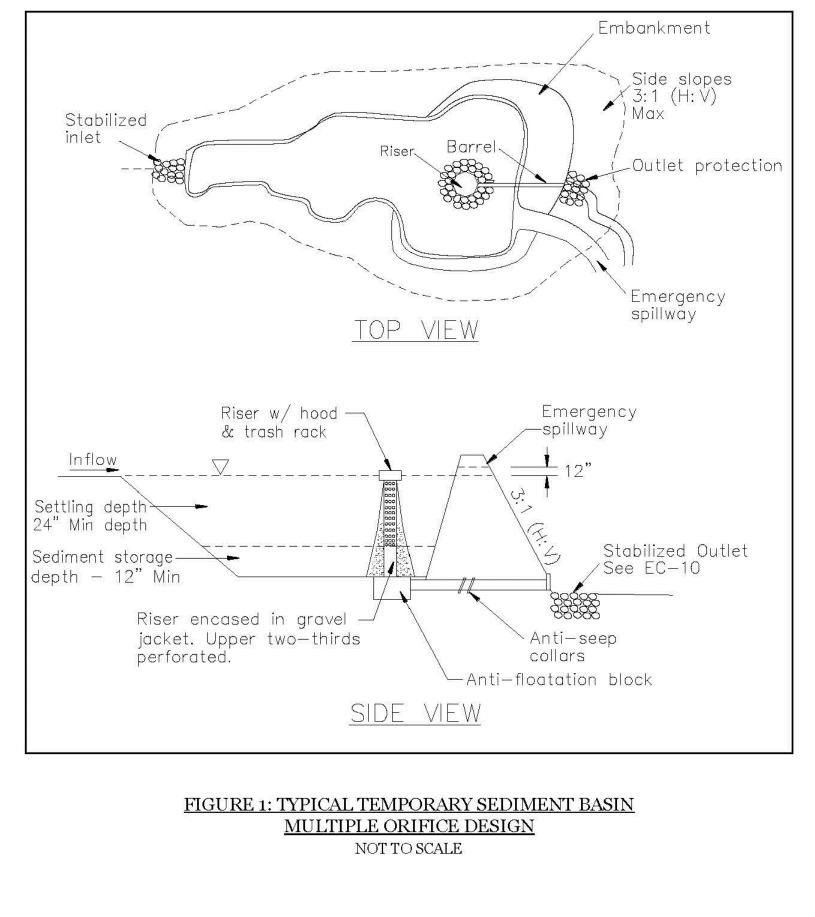
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EROSION CONTROL PLAN



California Stormwater BMP Handbook

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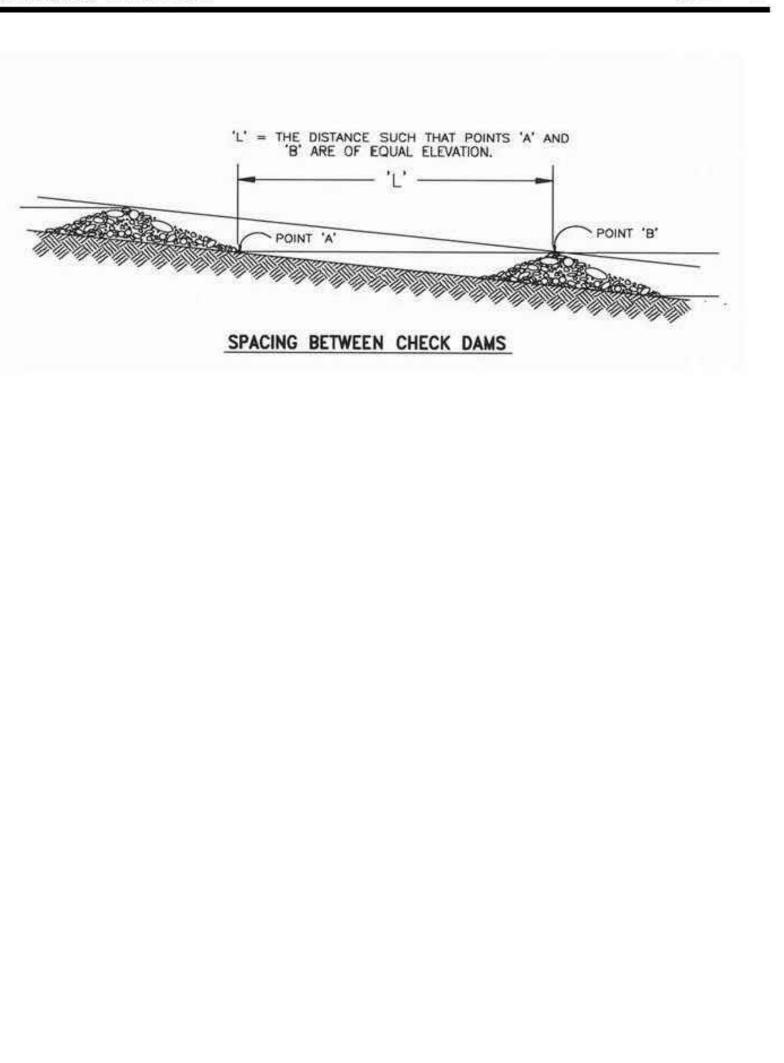
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January 2011

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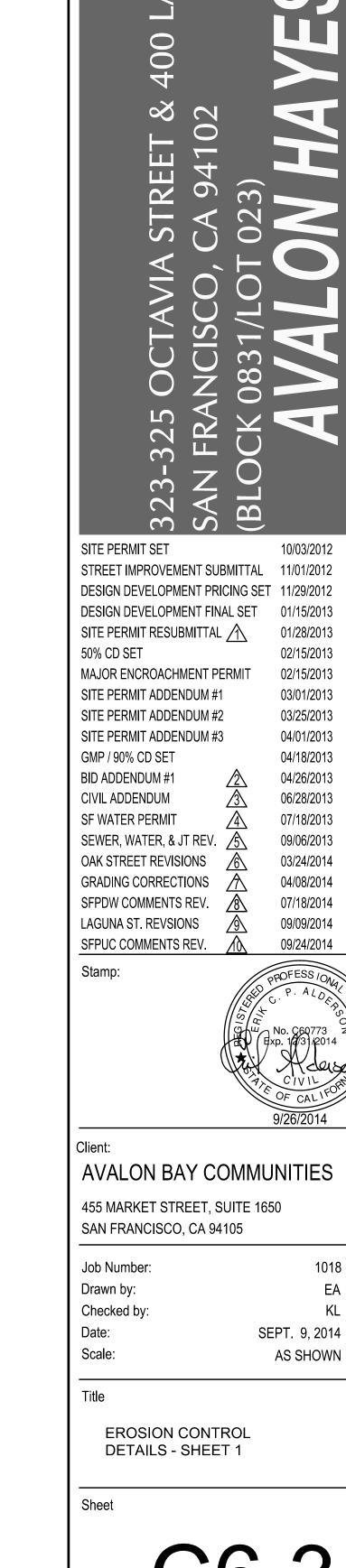
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GRAVEL BAG CHECK DAM ELEVATION NOT TO SCALE California Stormwater BMP Handbook Portal CHECK DAMS



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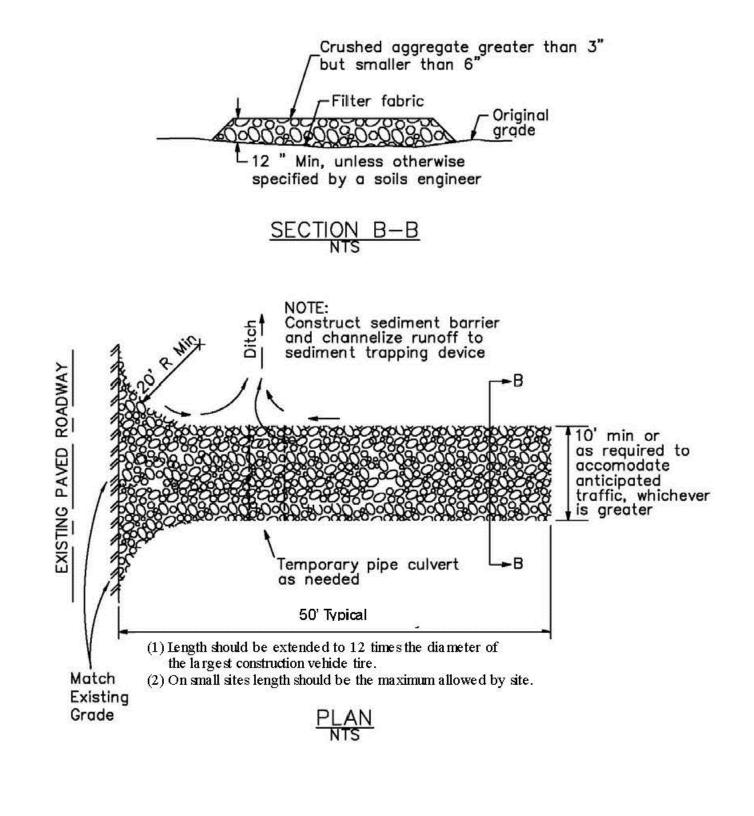
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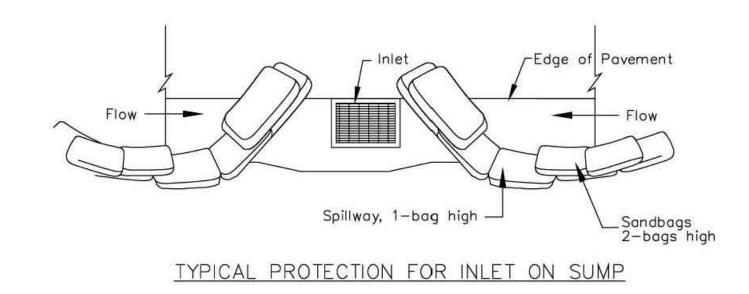
# Stabilized Construction Entrance/Exit TC-1

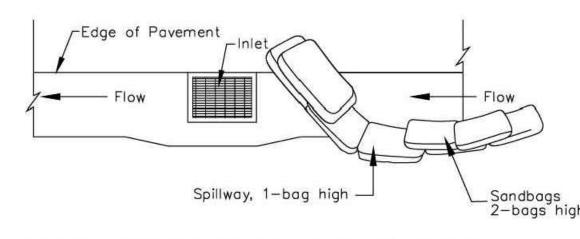


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STABILIZED CONSTRUCTION ENTRANCE/EXIT 7 SCALE: NOT TO SCALE

#### **SE-10 Storm Drain Inlet Protection**



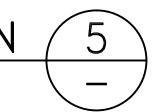


TYPICAL PROTECTION FOR INLET ON GRADE

1. Intended for short-term use. 2. Use to inhibit non-storm water flow. 3. Allow for proper maintenance and cleanup. 4. Bags must be removed after adjacent operation is completed 5. Not applicable in areas with high silts and clays without filter fabric.

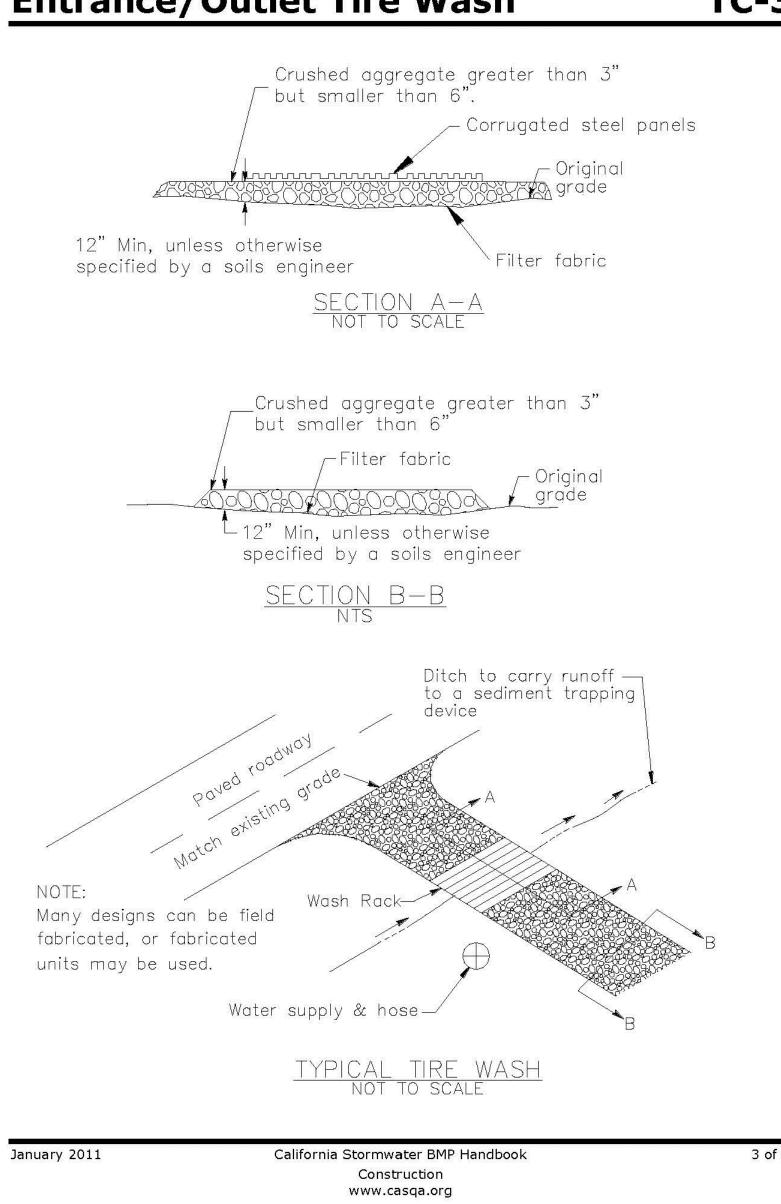
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# STORM DRAIN INLET PROTECTION SCALE: NOT TO SCALE



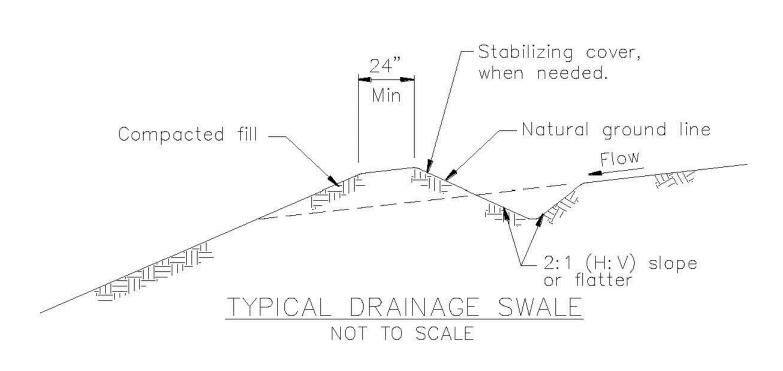
### **Entrance/Outlet Tire Wash**



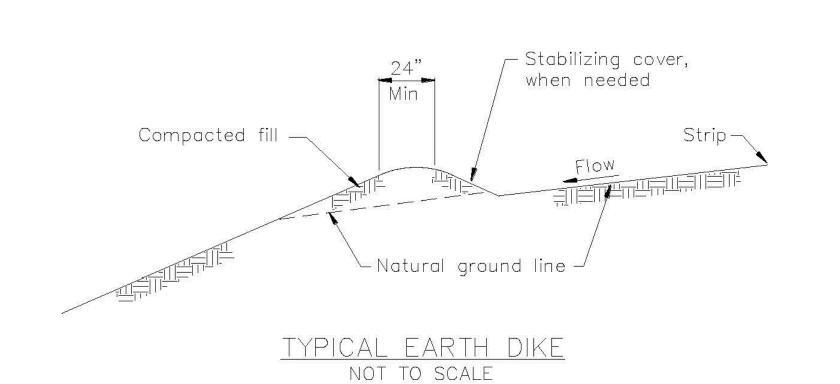


ENTRANCE/OUTLET TIRE WASH 8 SCALE: NOT TO SCALE

# Earth Dikes and Drainage Swales



NOTES: 1. Stabilize inlet, outlets and slopes. 2. Properly compact the subgrade.



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EARTH DIKES AND DRAINAGE SWALES (6) SCALE: NOT TO SCALE

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EROSION CONTROL DETAILS - SHEET 2