DESCRIPTION

SPOT ELEVATION

CITY LIMIT

CURB AND GUTTER

WATER LINE

CABLE LINE

TELEPHONE LINE

ELECTRICAL LINE

OVERHEAD LINE

WATER METER

WATER VALVE

FIRE HYDRAN

PULL BOX

JOINT POLE

TELEPHONE VAULT

UTILITY VAULT/BOX

PEDESTRIAN LIGHT

STREET LIGHT BOX

STREET SIGN POST

STREET NAME SIGN

DETAIL NUMBER

POTHOLE EX. UTILITY

PLAN SHEET NUMBER

RECTANGULAR RAPID FLASHING BEACON

RRFB

ROW

SD SDCB

SDMH

SDV

ST. STD

ABBREVIATIONS (CONTINUATION)

RELATIVE COMPACTION

RIGHT OF WAY

STORM DRAIN

PORTLAND CEMENT CONCRETE
POINT OF INTERSECTION

POINT OF REVERSE CURVATURE

REINFORCED CONCRETE PIPE

STORM DRAIN CATCH BASIN

STORM DRAIN DROP INLET

SANITARY SEWER MANHOLE

TOP OF CURB ELEVATION
TOP OF GRATE ELEVATION AT THE

TRAFFIC SIGNAL INTERCONNECT

FLOWLINE WHERE GRATE IS LOCATED

TOP OF RETAINING WALL ELEVATION TYPICAL

STORM DRAIN MANHOLF

STORM DRAIN VAULT

STREET NAME SIGN

RECTANGULAR RAPID FLASHING

PAVEMENT

RADIUS

SLOPE

STREET

STANDARD

SIDEWALK

WATER VALVE

JOINT TRENCH LINE

HIGH VOLTAGE LINE

STORM DRAIN MANHOLE

SANITARY SEWER MANHOLE

STORM DRAIN INLET

GAS LINE

CONTOUR FLEVATIONS

SANITARY SEWER LINE

STANDARD STREET MONUMENT

PROPERTY LINE, RIGHT OF WAY (R.O.W.)

LEGEND

NEW

140.25

—— SD—— STORM DRAIN LINE

EXISTING

x 140.25

__ 140 __

----SS---

— G —

___T ___

______IT ____

___OH___

(D)

W

① PB

ABBREVIATIONS

ANGLE

AVENUE

BEGIN CURVE

BACK OF CURB BOTTOM OF SLOPE

CURB AND GUTTER

BACK OF WALK

FRONT OF CURB

EASEMENT FACE OF CURB

FIRE HYDRANT

GRADE BREAK

LINEAR FEET

MAXIMUM

FOUND MONUMENT

INVERT ELEVATION

NOT-IN-CONTRACT

NOT TO SCALE

ON CENTER

FLOW LINE

DRIVEWAY

BEGIN VERTICAL CURVE

CONTROLLED DENSITY FILL

FLUID THERMAL BACKFILL

FINISH GRADE ELEVATION

HIGH DENSITY POLYETHYLENE

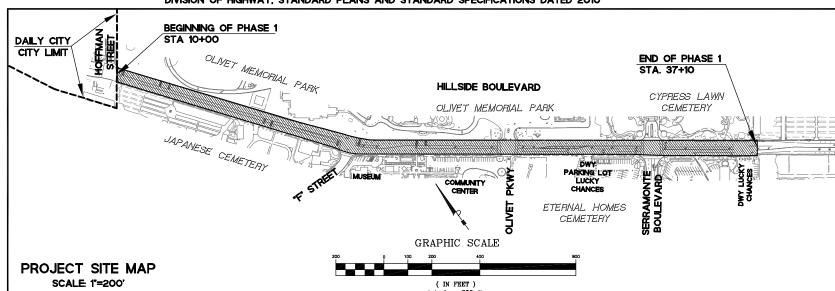
END VERTICAL CURVE

CENTERLINE OR CLASS

HILLSIDE BOULEVARD IMPROVEMENTS PROJECT, PHASE I C.I.P. NO. 901

FROM HOFFMAN STREET TO 390 FEET SOUTH OF SERRAMONTE BOULEVARD TOWN OF COLMA, SAN MATEO COUNTY, CALIFORNIA

> TO BE SUPPLEMENTED BY TOWN OF COLMA STANDARD SPECIFICATIONS AND STATE OF CALIFORNIA. DIVISION OF HIGHWAY, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED 2010





- TITLE SHEET
- KEY MAP, MONUMENT LOCATIONS, AND BASIS OF BEARINGS
- GENERAL NOTES
- CONSTRUCTION AND COORDINATION NOTES
- TYPICAL CROSS-SECTIONS
- TYPICAL CROSS-SECTIONS SHOWING EXISTING UTILTIES
- EXISTING CONDITIONS/DEMOLITION, STA.10+00 TO STA.21+00
- EXISTING CONDITIONS/DEMOLITION, STA.21+00 TO STA.31+50
- EXISTING CONDITIONS/DEMOLITION, STA.31+50 TO STA.36+70
- PAVING PLAN, STA.10+00 TO STA.21+00
- PAVING PLAN, STA.21+00 TO STA.31+50
- 12. PAVING PLAN, STA.31+50 TO STA.36+70
- IMPROVEMENTS PLAN AND PROFILE, STA.10+00 TO STA.15+00
- IMPROVEMENTS PLAN AND PROFILE, STA.15+00 TO STA.21+00
- 15. IMPROVEMENTS PLAN AND PROFILE, STA.21+00 TO STA.26+00 16. IMPROVEMENTS PLAN AND PROFILE, STA.26+00 TO STA.31+50
- 17. IMPROVEMENTS PLAN AND PROFILE, STA.31+50 TO STA.36+70
- 18. SIGNING AND STRIPING PLAN, STA.10+00 TO STA.21+00
- 19. SIGNING AND STRIPING PLAN. STA.21+00 TO STA.31+50
- SIGNING AND STRIPING PLAN, STA.31+50 TO STA.36+70 20.
- EROSION/STORMWATER POLLUTION CONTROL PLAN, STA.10+00 TO STA.21+00
- EROSION/STORMWATER POLLUTION CONTROL PLAN, STA.21+00 TO STA.31+50
- EROSION/STORMWATER POLLUTION CONTROL PLAN, STA.31+50 TO STA.36+70,
- POLLUTION PREVENTION PLAN
- DETAILS 25.
- DETAILS 26.
- DETAILS 27.
- 28. DETAILS
- 29. DETAILS
- CURB RAMPS & INTERSECTION DETAILS
- 31. CURB RAMPS & INTERSECTION DETAILS

SHEET NUMBERS AND TITLES (CONTINUATION)

- 34. TREE BULB-OUT LAYOUT & MISCELLANEOUS DETAILS

- 37. TRAFFIC SIGNAL MODIFICATION PLAN, SERRAMONTE BLVD./HILLSIDE BLVD.
- 38. TRAFFIC SIGNAL MODIFICATION PLAN, SERRAMONTE BLVD./HILLSIDE BLVD.
- L1 PLANTING PLAN, STA.10+00 TO STA.21+00
- L2 PLANTING PLAN, STA.21+00 TO STA.31+50
- L3 PLANTING PLAN, STA.31+50 TO STA.36+70
- 14 PLANTING DETAILS
- L5 IRRIGATION PLAN, STA.10+00 TO STA.21+00
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- L8 IRRIGATION LEGEND AND NOTES
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32. RAIN GARDEN TYPICAL LAYOUT & DETAILS

33. RAIN GARDEN TYPICAL LAYOUT & DETAILS

35. TRAFFIC SIGNAL MODIFICATION PLAN, OLIVET PWY./HILLSIDE BLVD.

- 36. TRAFFIC SIGNAL MODIFICATION PLAN, OLIVET PWY./HILLSIDE BLVD.

- L6 IRRIGATION PLAN, STA.21+00 TO STA.31+50

- L10 IRRIGATION DETAILS

TOWN OF COLMA

CYRUS KIANPOUR, R.C.E. 44799, EXPIRES 3/31/14

PREPARED UNDER MY SUPERVISION

ANNE - SOPHIE TRUONG R.C.E. 68110, EXPIRES 06/30/15

CONSTRUCTION SET 07/17/14

48 DATE: 07/17/14

JOB#: 10.350

BC BOC BS BVC BW C&G CDF CL DWY FOC FTB EX./(E) FND. MON.

HDPF

NTS

INV./I.E.

PROJECT

LOCATION MAP (N.T.S.)

AERIAL TOPOGRAPHIC SURVEY

2001 BROADWAY, THIRD FLOOR,

HJW GEOSPATIAL, INC.

OAKLAND, CA 94612

PH. (510)834-2001

218 OCEAN ST.

EMAIL:

FLIGHT DATE: MARCH 4, 2010

FLIGHT CONTROL SURVEY

LANDSCAPE ARCHITECTS

2927 NEWBURY STREET.

BERKELEY, CA. 94703

JOHN T SEACE LAND SURVEYING

SANTA CRUZ, CA. 94060-5118

jseace@aol.com

http://www.dillinghamlandarch.com

CALL TWO WORKING DAYS

BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

CONTRACTOR'S LICENSE.

PH. (831)421-0704, FAX (831)466-0517

PH. (510)548-4700, FAX (510)548-0265

IN CALIFORNIA,

NEVADA AND HAWAII

1-800-227-2600

CONTRACTOR SHALL HAVE A VALID CLASS "A"

DILLINGHAM ASSOCIATES, LANDSCAPE ARCHITECTS

Consultants

uth Amphlett Boulevard, 3
oc. CA 94402
656)522–2506 Fax (650)

CS San San Phos

CAMI

TOWI 198 COLI

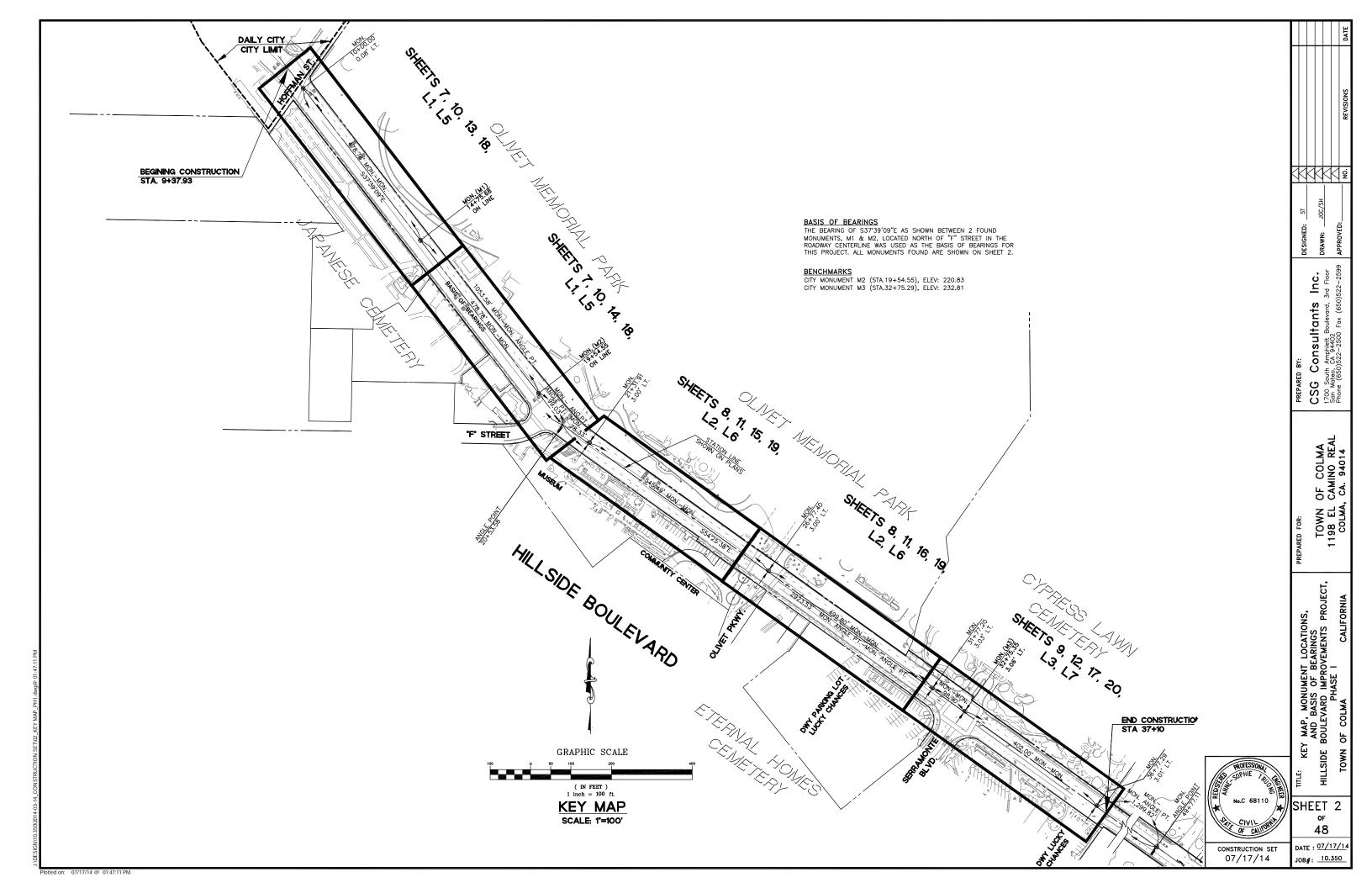
PROJECT,

BOULEVARD IMPROVEMENTS PHASE I

SHEET

Fax ev

SHEET 1



GENERAL

- CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THESE PROJECT PLANS, THE PROJECT SPECIFICATIONS, AND THE TOWN OF COLMA STANDARD SPECIFICATIONS AND DETAILS, AND CALTRANS STANDARDS PLANS AND SPECIFICATIONS, IN THAT ORDER, UNLESS OTHERWISE INDICATED.
- 2. THE TERM "SPECIFICATIONS", WHERE USED IN THESE DRAWINGS, SHALL REFER TO THE PROJECT SPECIFICATIONS "CONTRACT SPECIFICATIONS AND SPECIAL PROVISIONS FOR THE HILLSIDE BLVD. IMPROVEMENT PROJECT, PHASE 1", DATED MARCH 2014.
- 3. WHERE USED IN THESE DRAWINGS, THE TERMS "TOWN" AND "CITY" SHALL REFER TO THE TOWN OF COLMA.
- 4. THIS PROJECT IS LOCATED WITHIN THE JURISDICTION OF THE TOWN OF COLMA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENCES TO PERFORM THE WORK WITHIN THE TOWN PRIOR TO THE START OF WORK. THE TOWN OF COLMA WILL WAIVE FEES FOR ALL PERMITS REQUIRED FROM THE TOWN.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE REGULATIONS AND REQUIREMENTS OF THE TOWN ORDINANCES.
- 6. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DIRECTOR AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH THE WORK IN QUESTION. SHOULD EXISTING CONDITIONS SHOWN ON THESE PLANS DIFFER FROM ACTUAL CONDITIONS IN THE FIELD, CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DIRECTOR BEFORE PROCEEDING WITH THE WORK. CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL WORK RESULTING FROM LACK OF COORDINATION REGARDING PLAN/FIELD DISCREPANCIES WITH THE TOWN.
- 7. ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER OF RECORD AND THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION OF AFFECTED ITEMS.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING REQUIRED INSPECTIONS BY THE PUBLIC WORKS DIRECTOR OR HIS/HER AUTHORIZED REPRESENTATIVE(S). NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO ARRANGE FOR TOWN INSPECTION IN ADVANCE. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DIRECTOR AT (650) 757-8888 A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.
- CONTRACTOR SHALL POST 24-HOUR EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, POLICE DEPARTMENT AND FIRE DEPARTMENT AND EMERGENCY MEDICAL SERVICE ON SITE PRIOR TO START OF CONSTRUCTION.
- 10. CONTRACTOR SHALL PROVIDE A 72 HOUR NOTICE TO ADJOINING PROPERTY OWNERS AND TENANTS PRIOR TO COMMENCING CONSTRUCTION WORK. NOTIFICATION SHALL BE BY LETTER AND SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR.
- 11. CONTRACTOR SHALL POST "NO—PARKING" SIGNS ON EACH PAVEMENT REHABILITATION STREET AND/OR WORK AREA 48 HOURS PRIOR TO COMMENCING WORK. IF THE INTENDED WORK DOES NOT COMMENCE WITHIN 24 HOURS OF THE SCHEDULED DATE, ALL "NO PARKING" SIGNS SHALL BE REMOVED FROM THE SITE UPON CONCURRENCE FROM THE PUBLIC WORKS DIRECTOR.
- 12. CONTRACTOR SHALL HAVE A CONSTRUCTION SUPERINTENDENT ON—SITE AND MUST HAVE READILY AVAILABLE TELEPHONE NUMBERS FOR EMERGENCY ASSISTANCE.
- 13. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE HAUL ROUTE FROM THE TOWN'S ENGINEERING DEPARTMENT. APPROVED HAUL ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND ALL SUBCONTRACTORS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND PROTECTION OF THE FOLLOWING, INCLUDING, BUT NOT LIMITED TO: ADJOINING PREMISES, TREES, LANDSCAPING, FENCES, UTILITIES, SIDEWALKS AND STREETS FROM DAMAGE BY HIS OPERATIONS. CONTRACTOR SHALL REPAIR, REPLACE OR CLEAN ANY PART OF THE ABOVE MENTIONED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR, AT NO ADDITIONAL COST TO THE TOWN OR THE ADJACENT PROPERTY OWNERS. FURTHERMORE, THE CONTRACTOR SHALL REPLACE OR REPAIR, AT HIS/HER OWN EXPENSE, ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED EXISTING UTILITIES, UNDERGROUND OR SURFACE IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, TO THEIR ORIGINAL CONDITION, WHETHER SHOWN ON THE PLANS OR NOT.
- 15. ALL CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING OR A LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA, HIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE TOWN'S CONSTRUCTION INSPECTOR TWENTY—FOUR (24) HOURS IN ADVANCE OF COMMENCEMENT OF STAKING AND WHEN THE WORK WILL BE COMPLETED. THE CONTRACTOR SHALL ALLOW THE TOWN ADEQUATE TIME TO REVIEW AND APPROVE THE PROJECT STAKING PRIOR TO BEGINNING CONSTRUCTION. THIS TIME SHALL BE DETERMINED AND MUTUALLY AGREED UPON WITH THE CONTRACTOR AND TOWN AT THE PRE—CONSTRUCTION MEETING. THE TOWN RESERVES THE RIGHT TO MAKE REASONABLE ADJUSTMENTS TO THE STAKING WORK AS THE TOWN DEEMS NECESSARY AND WITHOUT REGARDS FOR ANY RELATED DELAYS TO CONSTRUCTION. THE CONTRACTOR SHALL WORK WITH THE TOWN IN ENSURING ANY MODIFICATIONS TO THE STAKING REQUIRED BY THE TOWN ARE IN PLACE PRIOR TO CONSTRUCTION.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING PAVEMENT, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, ETC., TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.

WORK HOURS

- 1. NO WORK MAY COMMENCE OR BE CARRIED OUT EXCEPT BETWEEN THE HOURS OF 7 AM AND 5 PM, MONDAY THROUGH FRIDAY, EXCEPTING LEGAL HOLIDAYS OBSERVED BY THE TOWN OF COLMA. NO EQUIPMENT OR MOTOR VEHICLES MAY BE STARTED OR OPERATED EXCEPT DURING WORKING HOURS. PLACEMENT OF MATERIALS SHALL CEASE AT LEAST ONE—HALF HOUR PRIOR TO THE END OF WORKING HOURS TO ALLOW SUFFICIENT TIME FOR CLEAN—UP.
- 2. FOR ALL WORK OUTSIDE OF NORMAL WORK HOURS SPECIFIED ABOVE, CONTRACTOR SHALL OBTAIN IN WRITING PRIOR APPROVAL BY THE PUBLIC WORKS DIRECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ANY ADDITIONAL FEES REQUIRED BY THE TOWN FOR PERFORMING WORK BEYOND THE NORMAL WORKING HOURS.
- 3. CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE TOWN NOISE ORDINANCE WHEN WORKING WITHIN THE TOWN.

III. TRAFFIC CONTROL

- 1. THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE PUBLIC WORKS DIRECTOR A TEMPORARY, PHASED, TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY CALTRANS AND PROJECT SPECIFICATIONS IMMEDIATELY UPON APPROVAL OF INSURANCE FORMS AND CERTIFICATES. TRAFFIC CONTROL PLAN SHALL BE APPROPRIATE TO EACH PHASE OF WORK.
- 2. TRAFFIC CONTROL DEVICES SHALL INCLUDE A MINIMUM OF 2 "EXPECT DELAYS" PORTABLE CHANGEABLE MESSAGE SIGNS, TO BE PLACED AT A LOCATION APPROVED BY THE DIRECTOR OF PUBLIC WORKS AT LEAST 7 DAYS BEFORE THE START OF CONSTRUCTION.
- 3. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.

IV. CONSTRUCTION STAGING

- 1. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL BY THE PUBLIC WORKS DIRECTOR A COMPLETE CONSTRUCTION STAGING PLAN IMMEDIATELY UPON APPROVAL OF INSURANCE FORMS AND CERTIFICATES. CONSTRUCTION STAGING AREA SHALL BE LOCATED WITHIN THE COMMUNITY CENTER PARKING LOT, IN AN AREA APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
- NO EQUIPMENT SHALL BE STORED WITHIN TOWN RIGHTS-OF-WAY. UNLESS APPROVED IN WRITING BY THE PUBLIC WORK DIRECTOR.
- 3. CONSTRUCTION STAGING AREA SHALL BE ADEQUATELY SECURED BY USE OF TEMPORARY FENCING WITH LOCKING GATE(S) AND SCREENED FROM THE PUBLIC RIGHT—OF—WAY TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR. SCREENING SHALL CONSIST OF MATERIALS APPROVED BY THE PUBLIC WORKS DIRECTOR AND SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

V. STORMWATER POLLUTION, EROSION CONTROL, AND CLEANUP

- 1. CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND PROCEDURES OF THE MUNICIPAL REGIONAL STORMWATER POLLUTION PERMIT (MRP), ALSO KNOWN AS THE NPDES PERMIT, MORE SPECIFICALLY, CONTRACTOR SHALL COMPLY WITH THE SAN MATEO COUNTYWIDE STORMWATER POLLUTION PREVENTION PROGRAM'S BEST MANAGEMENT PRACTICES (BMPs) FOR CONSTRUCTION ACTIVITIES, THE EROSION/STORMWATER POLLUTION CONTROL PLANS ATTACHED HERETO AS SHEETS NO. 21, 22, & 23, AND THE "POLLUTION PREVENTION IT'S PART OF THE PLAN" CONSTRUCTION BMP PLAN SHEET. ATTACHED HERETO AS SHEET NO. 24.
- 2. CONTRACTOR SHALL SUBMIT FOR TOWN REVIEW A STORMWATER POLLUTION PREVENTION PLAN, PREPARED IN ACCORDANCE WITH CALTRANS STANDARDS INCLUDING ALL MEASURES TO BE IMPLEMENTED THROUGHOUT THE PROJECT LIMITS AND AT CONTRACTOR'S STAGING LOCATION.
- ALL WORK TO BE PERFORMED DURING THE DRY WEATHER MONTHS OF BETWEEN APRIL 30TH &
 OCTOBER 1ST. WORK TO CONTINUE AFTER OCTOBER 1ST WITH WRITTEN PERMISSION AND
 ADDITIONAL PROTECTIVE MEASURES ONLY.
- 4. APPLY CONCRETE, ASPHALT, AND SEAL COAT DURING DRY WEATHER TO PREVENT CONTAMINANTS FROM CONTACTING STORM WATER RUNOFF.
- 5. COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, ETC.
- 6. MAINTAIN ALL VEHICLES AND HEAVY EQUIPMENT. INSPECT FREQUENTLY FOR AND REPAIR LEAKS.
- CLEAN UP LIQUID SPILLS ON PAVED OR IMPERMEABLE SURFACES USING "DRY" CLEANUP METHODS (E.G., ABSORBENT MATERIALS LIKE CAT LITTER, SAND OR RAGS).
- 8. FILTER FABRIC OR OTHER MATERIAL FOR SEDIMENT TRAPPING SHALL BE INSTALLED AND MAINTAINED AT STREET GUTTERS AND DRAINS TO KEEP CONSTRUCTION DEBRIS OUT OF THE STORM DRAIN SYSTEM.
- 9. NO MATERIAL, RESIDUE WASTE OR DEBRIS GENERATED BY CONSTRUCTION ACTIVITIES WILL BE ALLOWED TO BE WASHED INTO ANY DRAINAGE INLETS.
- 10. AT THE END OF EVERY DAY, ALL MATERIALS TRAPPED BY THE INLET PROTECTION BMP (FILTER FABRIC) AND EXCESS MATERIALS SUCH AS PAVEMENT PIECES OR DEBRIS WILL BE COLLECTED USING DRY SWEEP METHODS AND REMOVED FROM THE PROJECT SITE. NO MATERIALS WILL BE ALLOWED TO BE WASHED INTO THE STORM DRAIN SYSTEM.
- 11. DURING CONSTRUCTION, STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION.
- 12. BERM AROUND STORAGE AREAS TO PREVENT CONTACT WITH STORMWATER RUNOFF.
- 13. STORE STOCKPILED MATERIALS AND WASTES OVER PLASTIC SHEETING OR A TARP, AND UNDER A TEMPORARY ROOF OR SECURED PLASTIC SHEETING OR TARP.
- 14. ALWAYS PARK PAVING MACHINES OVER DRIP PANS OR ABSORBENT MATERIALS, AS THEY TEND TO DRIP CONTINUOUSLY.

VI. DUST CONTROL

1. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE AT ALL TIMES IN CONFORMANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT BASIC AND ENHANCED DUST CONTROL MEASURES. 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 TOWN RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND BACK CHARGE THE CONTRACTOR.

VII. EXISTING CONDITIONS, UTILITIES AND MONUMENTS

- 1. CONTRACTOR SHALL CONTACT USA [UNDERGROUND SERVICES ALERT 1-(800)-227-2600,] AND AFFECTED UTILITY COMPANIES, A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO THE START OF WORK TO NOTIFY THEM OF CONSTRUCTION, AND TO REQUEST THAT UTILITIES BE MARKED. CONTRACTOR SHALL NOT BEGIN EXCAVATION WORK UNTIL ALL UTILITIES HAVE BEEN MARKED OR THE PRESCRIBED "NO RESPONSE FOLLOW-UP" PROCEDURES HAVE BEEN FOLLOWED.
- 2. LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS WAS COMPILED FROM SURVEYED SURFACE UTILITIES AND UTILITY COMPANIES' FACILITY SCHEMATICS AND IS APPROXIMATE. THE UTILITY INFORMATION SHOWN HEREON IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING RECORD INFORMATION AND CONDUCTING FIELD INVESTIGATION TO VERIFY THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR SHALL NOTIFY THE TOWN IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES.
- 3. CONTRACTOR SHALL VERIFY UTILITY LOCATION AND ELEVATION AT PROPOSED UTILITY CROSSINGS AND CONNECTION POINTS BY POTHOLING AT THE LOCATIONS SHOWN ON THESE PLANS. REPORT DISCPREPANCIES TO THE PUBLIC WORKS DIRECTOR FOR DESIGN REVISIONS.
- 4. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING ABOVE OR NEAR PG&E 230KV TRANSMITION LINE (JEFERSON-MARTIN). LOCATION AS SHOWN ON PLAN WAS APPROXIMATED FROM SCHEMATIC AND VISIBLE TRENCH LINES, AND SHALL IN NO WAY BE ACCEPTED AS TRUE LOCATION. TRUE LOCATION SHALL BE MARKED IN THE FIELD BY REPRESENTATIVES OF PG&E. CONTRACTOR SHALL NOTIFY THE TOWN IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN MARKED LOCATION AND THE LOCATION SHOWN ON THESE PLANS.
- CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR RAISING OF THEIR FACILITIES TO FINISH GRADES.
- 6. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT—IN—PLACE EXISTING MONUMENTS AND FOR RAISING THE LIDS OF MONUMENT WELLS TO GRADE. DESTROYED/DAMAGED MONUMENTS SHALL BE RE—ESTABLISHED AT CONTRACTOR'S SOLE EXPENSE.

VIII. UNAUTHORIZED CHANGES AND USES

 THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND REQUIRE WRITTEN APPROVAL OF THE TOWN ENGINEER AND THE PREPARER OF THESE PLANS.

IX. STATEMENT OF RESPONSIBILITY

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONALS AND THE TOWN OF COLMA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE TOWN OF COLMA.

GENERAL NOTES

BOULEVARD IMPROVEMENTS PROJECT, TOWN OF COLMO OF COLMA

OF COLMA

CALIFORNIA

PREFAKED FUK:

TOWN OF COLMA

CALIFORNIA

PREFAKED FUK:

TOWN OF COLMA

SG Consultants
South Amphlett Boulevard, 3
Mateo, CA 94402
one (650)522-2500 Fax (650)

CS San 1700 Phon

ROFESSOM ROFESSOM ROCESSOM No.C 68110

07/17/14

DATE : 07/17/14 JOB#: 10.350

SIDE

₫

SHEET 3

48

EARTHWORK AND GRADING

- TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH, DEBRIS AND ANY OTHER DELETERIOUS MATERIAL SHALL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
- 2. UNLESS OTHERWISE SHOWN ON PLANS AND/OR DETAILS, PLACE TOPSOIL TO A MINIMUM DEPTH OF FOUR (4") INCHES. FINISHED GRADE SHALL INCLUDE PLACEMENT OF TOPSOIL AND SHALL CONFORM TO THE DESIGN GRADES SHOWN ON THE DRAWINGS. ANY AREA TO RECEIVE FILL SHALL BE SCARIFIED AT LEAST SIX (6") INCHES AND COMPACTED TO THE SPECIFIED RELATIVE
- 3. ANY ADDITIONAL FILL MATERIAL REQUIRED TO ATTAIN THE DESIGN GRADES SHOWN ON THESE PLANS SHALL BE PER PROJECT SPECIFICATIONS. ALL FILL MATERIAL SHALL BE FIELD TESTED FOR COMPLIANCE WITH THE PROJECT SPECIFICATIONS INCLUDING TOXICITY TESTING.
- 4. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED
- PROTECT-IN-PLACE OR RESTORE EXISTING IRRIGATION SYSTEMS. RESET IRRIGATOR HEADS WHERE REQUIRED TO MATCH FINAL GRADES. SPRINKLERS SHOULD NOT BE DISABLED FOR LONGER THAN SUCH PERIOD AS WAS AGREED UPON WITH PROPERTY OWNER. AND NEVER WITHOUT PRIOR APPROVAL FROM DIRECTOR OF PUBLIC WORKS AND PROPERTY OWNER.

DEMOLITION NOTES

- 1. SEE TRAFFIC SIGNAL MODIFICATION PLANS FOR ADDITIONAL DEMOLITION WORK INCLUDING REMOVAL OF EXISTING SIGNAL POLE FOUNDATIONS AND DETECTOR LOOPS
- 2. EXISTING "SPECIAL" SIGNS AS SHOWN ON THE LIGHTING/SIGNING AND STRIPING PLANS SHALL BE SALVAGED AND MAINTAINED IN AN ACCEPTABLE CONDITION FOR RE-INSTALLATION BY THE
- 3. DEMOLITION INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS AND GRINDING OF THERMOPLASTIC PAVEMENT LEGENDS WHERE SHOWN.
- 4. PROTECT EXISTING IRRIGATION SYSTEMS WITHIN PROJECT LIMITS.
- PROTECT EXISTING MONUMENTS DURING CONSTRUCTION.
- 6. PROTECT-IN-PLACE ALL MANHOLE COVERS AND LIDS OF UNDERGROUND VAULTS, WATER VALVES, ETC. UNLESS OTHERWISE NOTED ON PLANS.
- 7. TO THE BEST OF THE TOWN'S KNOWLEDGE, THE DEPTH OF EXISTING ASPHALT CONCRETE IS AS SHOWN ON THESE SECTIONS, HOWEVER, THE TOWN CANNOT WARRANT THAT THE DEPTH IS COMPLETELY UNIFORM THROUGHOUT. GRINDING EXISTING SECTION "FULL—DEPTH" SHALL MEAN REMOVE ALL EXSISTING ASPAHLT CONCRETE DOWN TO BASE MATERIAL, AND MAY BE MORE THAN WHAT IS SHOWN ON THESE PLANS.

LIGHTING NOTES

- 1. LIGHTING SYMBOLS DENOTE APPROXIMATE LOCATION OF POLE AND NO. 3 1/2 PULL BOX (NOT SHOWN)
- 2. LIGHTING STANDARD SHALL BE IN PLACE AND TRULY PLUMBED BEFORE PLACING DRY PACK.
- 3. LUMINAIRES SHALL BE WIRED TO A "MULTIPLE CIRCUIT".
- 4. LIGHTING CONDUIT INSTALLATION SHALL CONFORM TO THE REQUIREMENTS FOR "TRENCHING IN PAVEMENT METHOD" IN SECTION 86-2.05C OF THE STATE STANDARD SPECIFICATIONS.
- 5. CONFIRM EXACT LIGHT LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO EXCAVATION FOR
- 6 CONFIRM CONDUIT LOCATIONS IN FIFLD WITH ENGINEER PRIOR TO TRENCHING
- 7. SEE TRAFFIC SIGNAL MODIFICATION PLANS FOR ADDITIONAL LIGHTING REMOVALS AND INSTALLATIONS.
- 8. PROVIDE NO. 3 1/2 PULL BOX SPACED AS NOTED OR 250 FEET MAX

COORDINATION NOTES:

PG&E COORDINATION

- CONTRACTOR SHALL CONTACT BORIS GANKIN, PG&E UNDERGROUND TRANSMISSION MAINTENANCE SUPERVISOR (415-330-2286), AT LEAST 72 HOURS PRIOR TO WORKING NEAR THE 230kV TRANSMISSION LINE (LABELED HV ON PLANS). IF DIGGING WITHIN 5 FEET OF THE DUCT BANK (OR WHEN INSTALLING IRRIGATION SLEEVES OVER THE TRENCH), PG&E WILL ARRANGE FOR A CABLEMAN TO BE ON SITE FOR STANDBY.
- 2. PLEASE NOTE THAT A STANDBY PG&E EMPLOYEE IS REQUIRED DURING ANY EXCAVATION WITHIN 10 FEET OF THE GAS DISTRIBUTION LINE. CONTRACTOR SHALL CONTACT MIKE BADET, I&R SUPERVISOR, AT (650) 598-7346 TO ARRANGE FOR A STANDBY PG&E EMPLOYEE THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION WITHIN 10 FEET OF THE GAS TRANSMISSION LINE.
- 3. PG&E SHALL PARTIALLY RELOCATE THE EXISTING 12kV LINE (IN 6" CONDUIT) LOCATED APPROXIMATELY 4' TO 12' FROM THE EXISTING FACE OF CURB AT SPECIFIC RAIN GARDEN LOCATIONS (SEE PLAN AND PROFILES). THIS RELOCATION SHALL OCCUR DURING CONSTRUCTION AND CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING PG&E (ATTN: LORI RUSCA PH: (650) 598-7280) AND THOROUGHLY COORDINATING CONSTRUCTION SCHEDULES.

CALIFORNIA WATER SERVICE COMPANY (CALWATER) COORDINATION

- INSTALLATION OF FIRE HYDRANTS AT STA.9+85± AND 16+45± WILL BE BY CALWATER. CONTRACTOR SHALL CONTACT LEIGHTON LOW, CONSTRUCTION SUPERINTENDENT, AT (650) 558-7862 IMMEDIATELY UPON AWARD OF CONTRACT TO COORDINATE WORK AND CONSTRUCTION SCHEDULES.
- 2. CALWATER SHALL SLURRY THE 8" PVC TRENCH IN THE VICINITY OF RAIN GARDEN #2 AND BOTH TREE BULB-OUTS. CONTRACTOR TO CONTACT LEIGHTON LOW AT (650) 558-7862 FOR COORDINATION OF WORK SCHEDULES.

COLMA FIRE DEPARTMENT COORDINATION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT PLACEMENT OF TWO (2) FIRE HYDRANTS (STA.9+85± AND 16+45±) WITH THE FIRE DEPARTMENT (BILL PARDINI. (650) 740-2073). LOCATION SHALL NOT BE FINALIZED WITHOUT APPROVAL FROM FIRE DEPARTMENT.

> reOFESS/O No.C 68110 CONSTRUCTION SET

Consultants South Mateo, CS San-Phone OF COLMA CAMINO REAL , CA. 94014 TOWN 1198 EL COLMA,

a K

DESIGNED:

NOTES PROJECT,

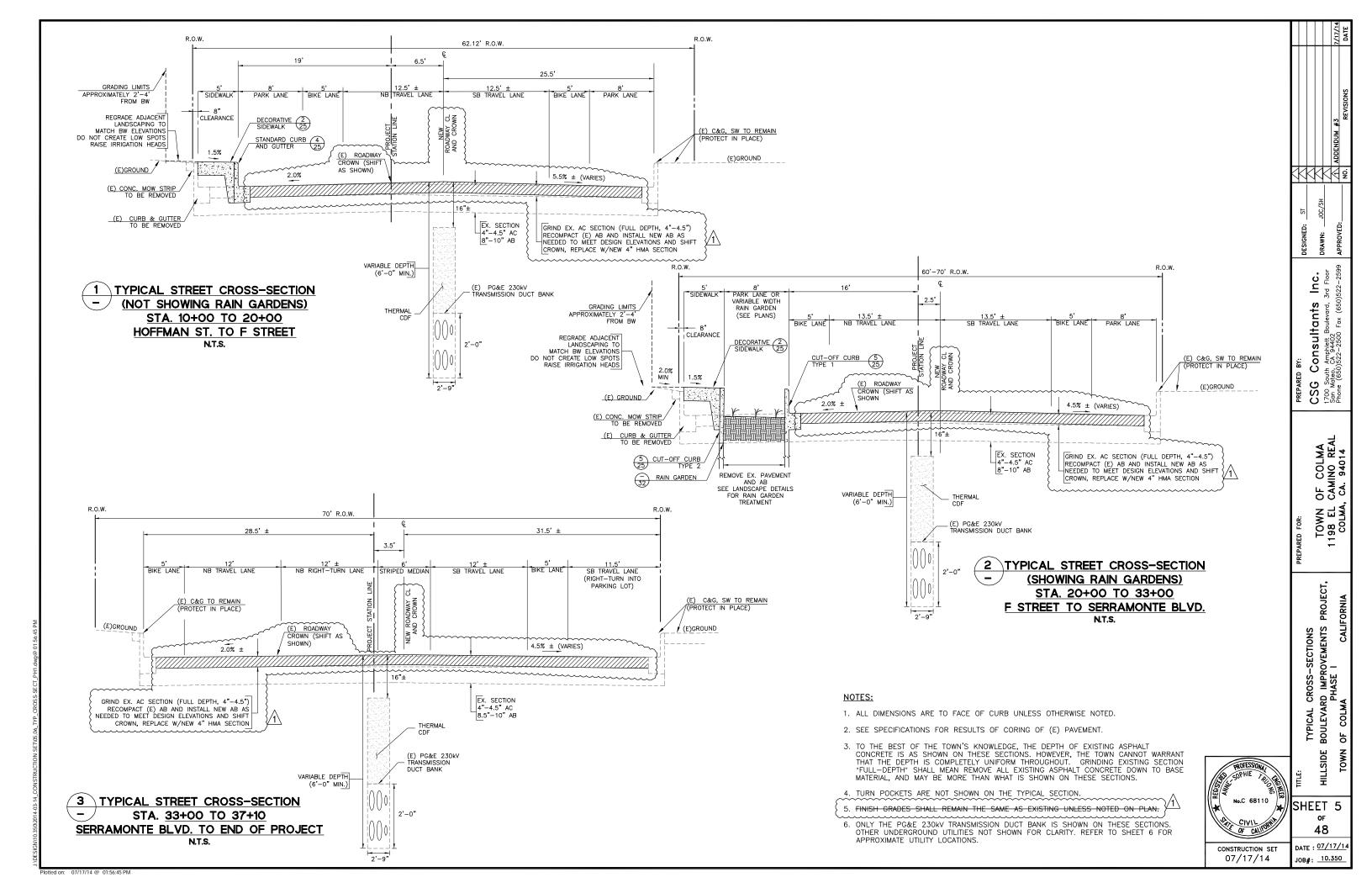
TRUCTION AND COORDINATION E BOULEVARD IMPROVEMENTS PHASE I

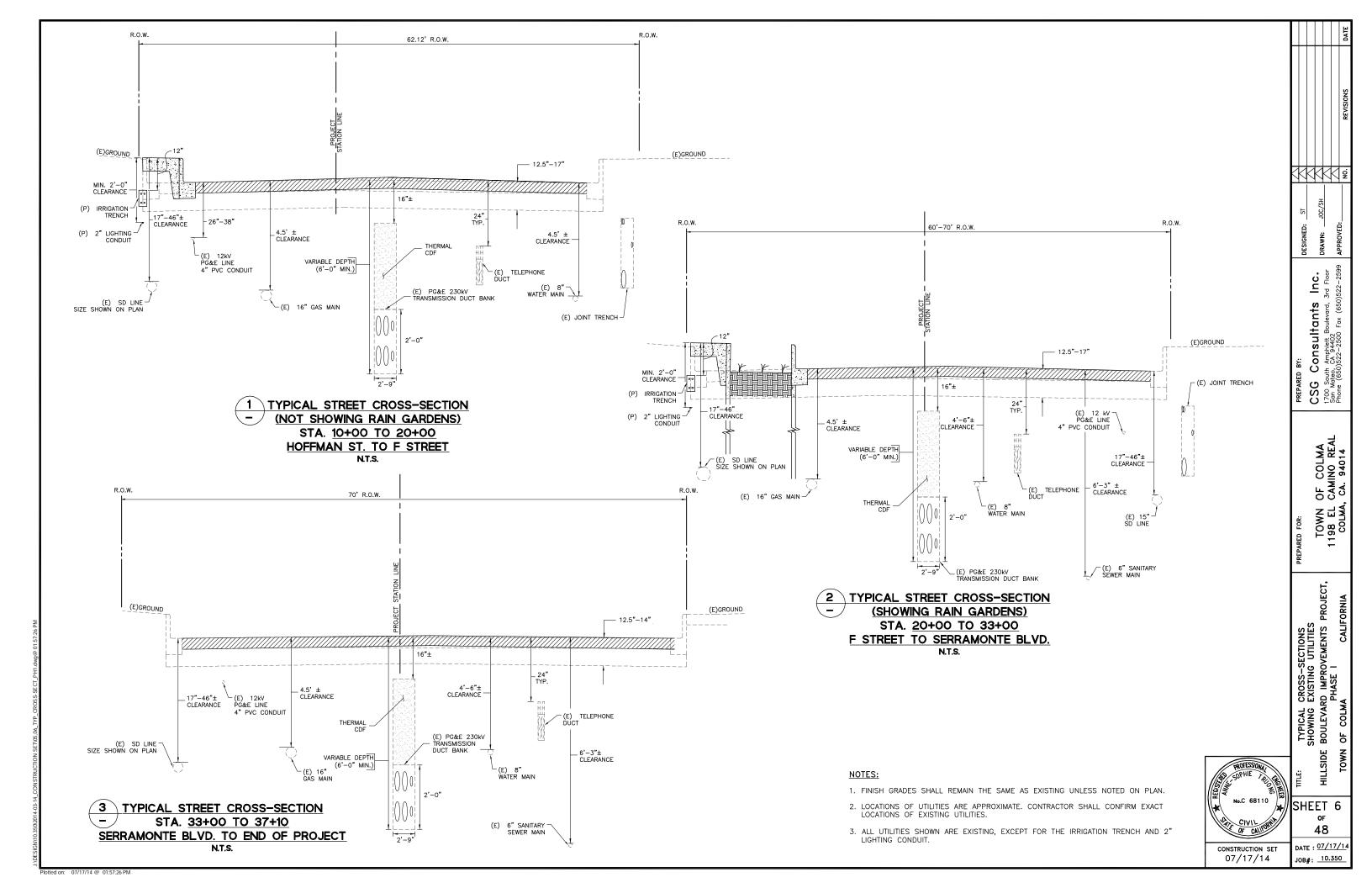
HILLSIDE SHEET 4

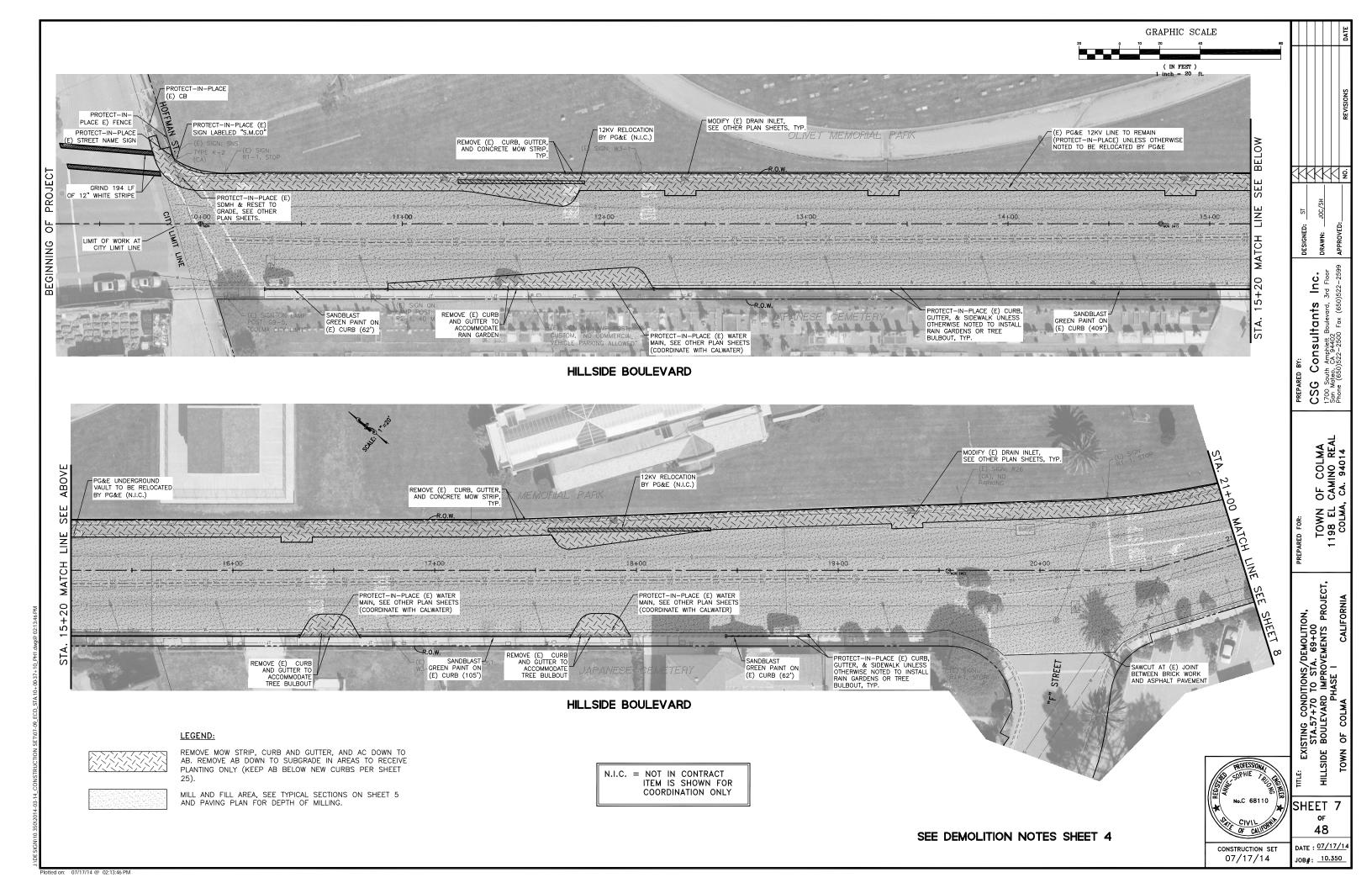
48 DATE: 07/17/14

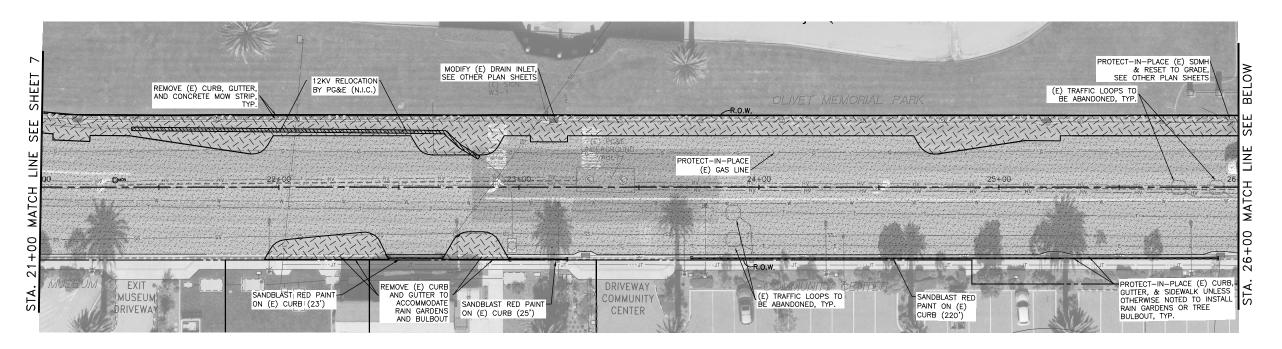
07/17/14 JOB#: 10.350

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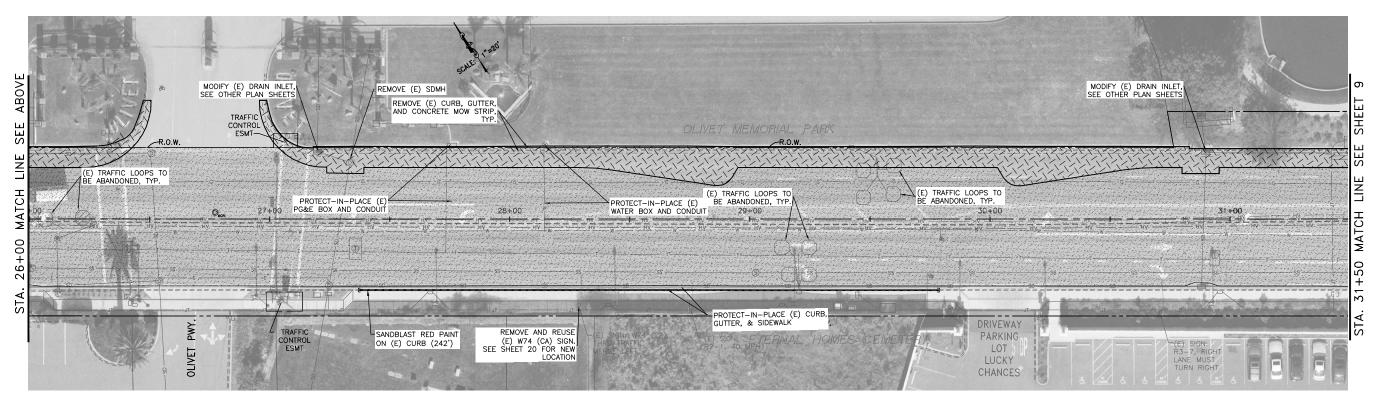








HILLSIDE BOULEVARD



LEGEND:

REMOVE MOW STRIP, CURB AND GUTTER, AND AC DOWN TO AB. REMOVE AB DOWN TO SUBGRADE IN AREAS TO RECEIVE PLANTING ONLY (KEEP AB BELOW NEW CURBS PER SHEET

MILL AND FILL AREA, SEE TYPICAL SECTIONS ON SHEET 5 AND PAVING PLAN FOR DEPTH OF MILLING.

HILLSIDE BOULEVARD

N.I.C. = NOT IN CONTRACT ITEM IS SHOWN FOR COORDINATION ONLY

SEE DEMOLITION NOTES SHEET 4



OF COLMA CAMINO REAL A, CA. 94014 TOWN (1198 EL (COLMA,

CSG Consultants Inc.
1700 South Ampliett Boulevard, 3rd Floor Sam Mateo, CA 94402 Phone (650)522-2500 Fax (650)522-2599

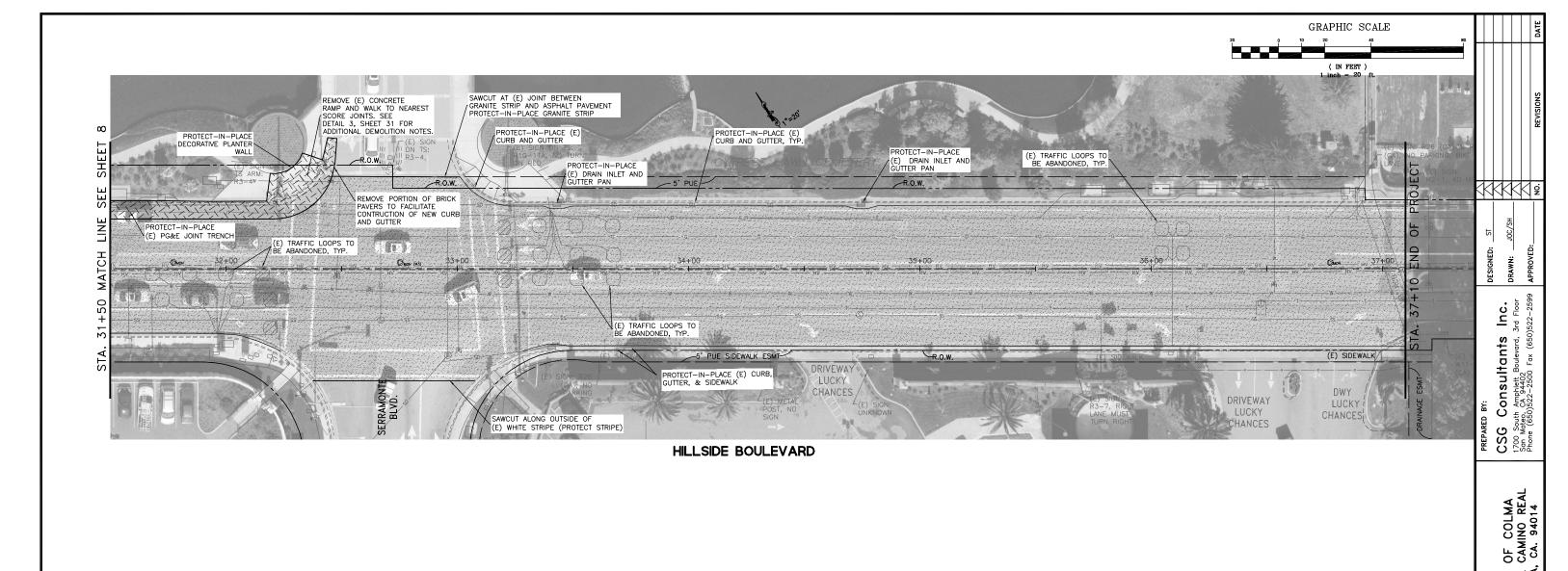
DESIGNED:

PROJECT, EXISTING CONDITIONS/DEMOLITION, STA.21+00 TO STA. 31+50 IDE BOULEVARD IMPROVEMENTS PROPHASE I

HILLSIDE

SHEET 8 48

DATE: 07/17/14 JOB#: 10.350



LEGEND:

REMOVE MOW STRIP, CURB AND GUTTER, AND AC DOWN TO AB. REMOVE AB DOWN TO SUBGRADE IN AREAS TO RECEIVE PLANTING ONLY (KEEP AB BELOW NEW CURBS PER SHEET 25).



MILL AND FILL AREA, SEE TYPICAL SECTIONS ON SHEET 5 AND PAVING PLAN FOR DEPTH OF MILLING.

N.I.C. = NOT IN CONTRACT ITEM IS SHOWN FOR COORDINATION ONLY

SEE DEMOLITION NOTES SHEET 4



SHEET 9

OF CAUSE

CONSTRUCTION SET

O7/17/14

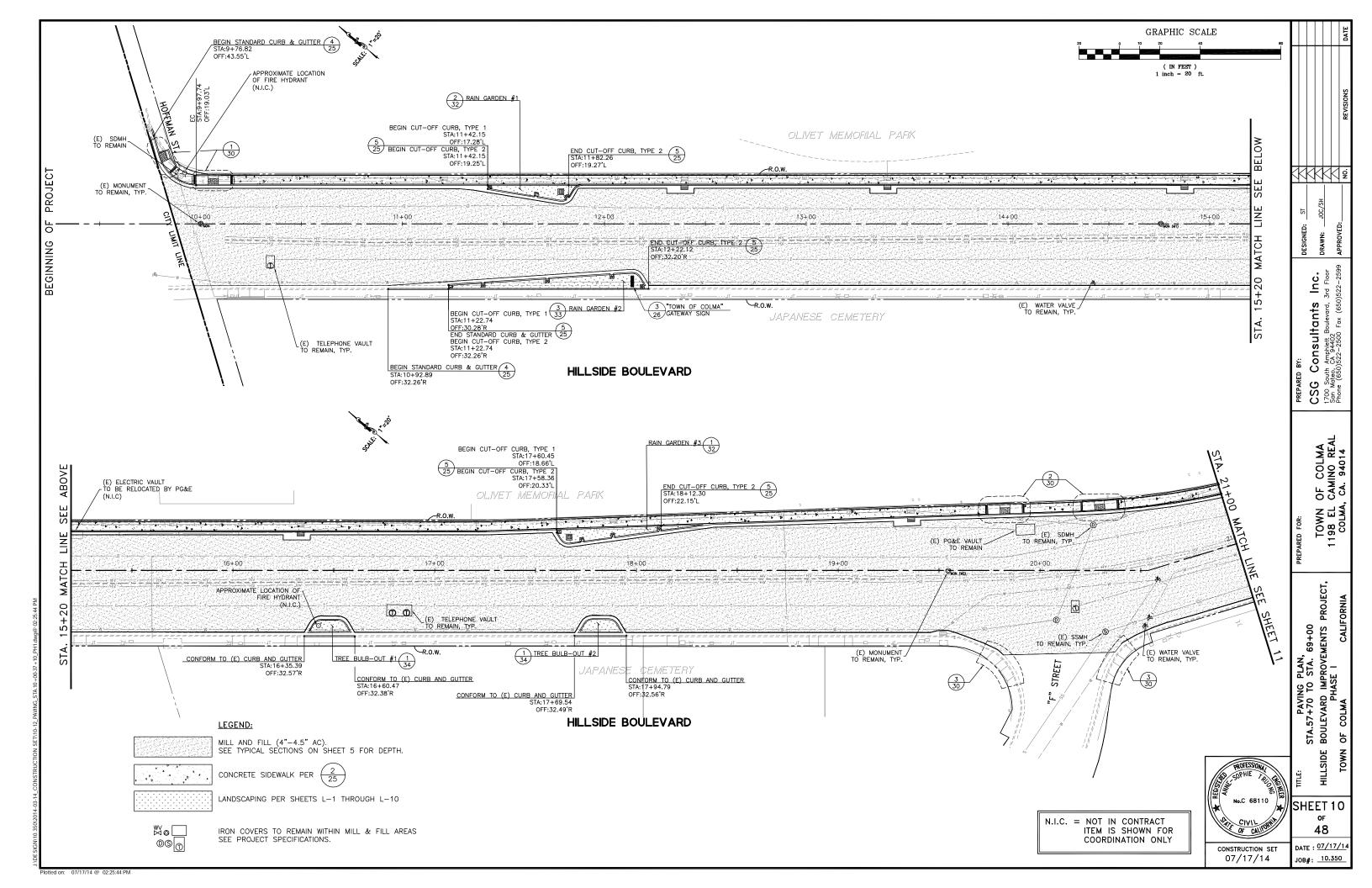
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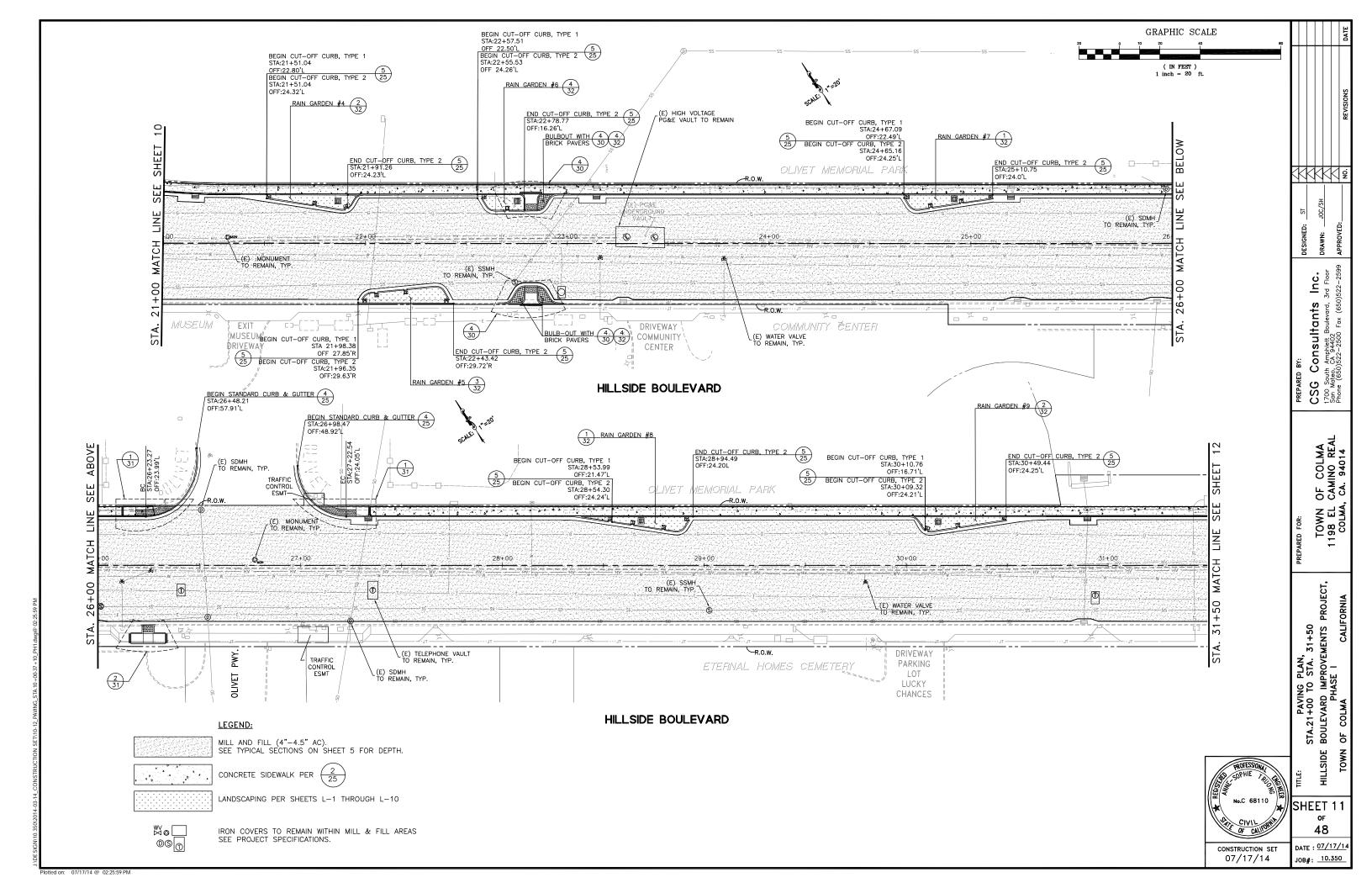
TOWN 1198 EL COLMA,

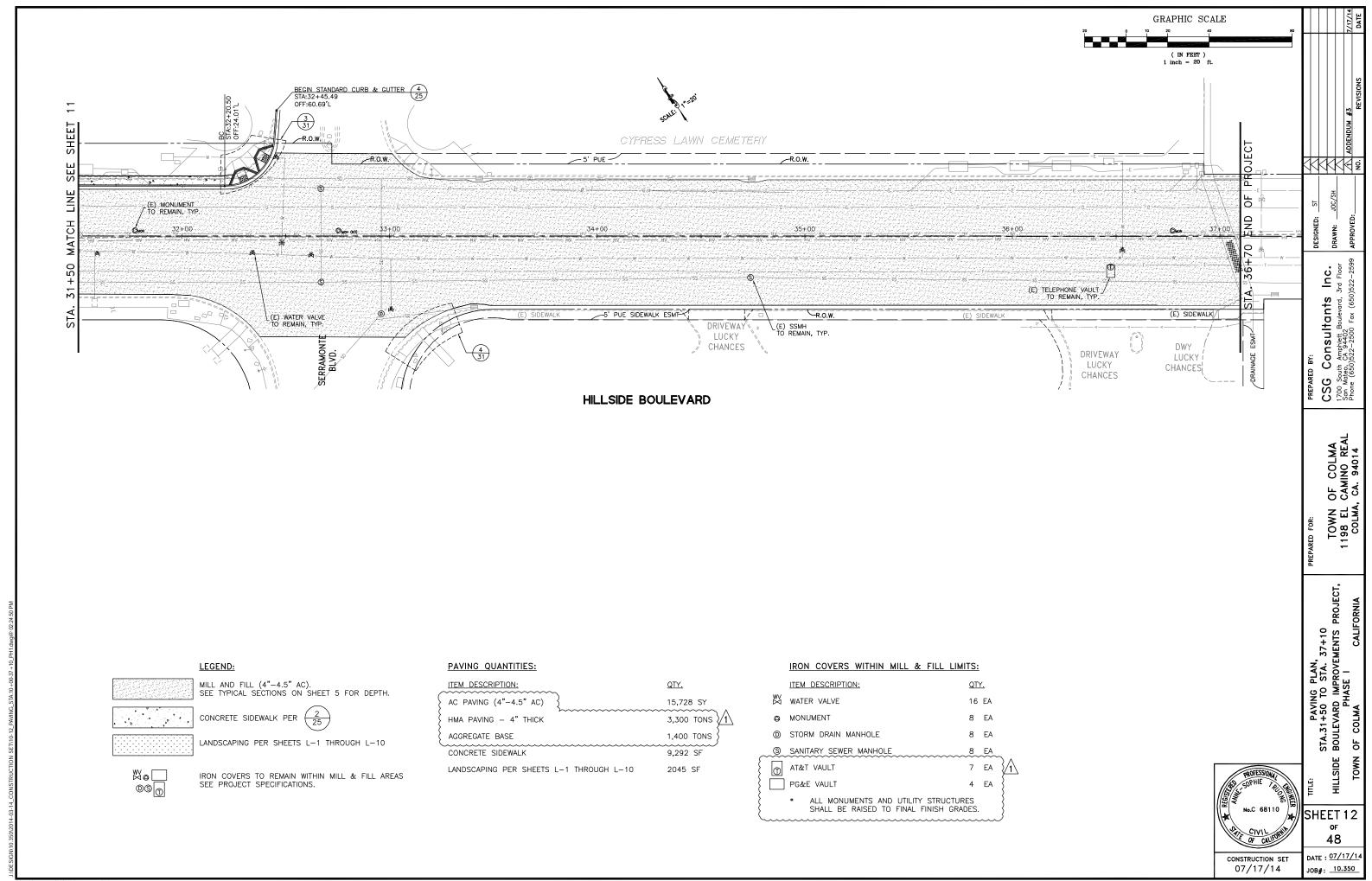
EXISTING CONDITIONS/DEMOLITION, STA.31+50 TO STA. 37+10 IDE BOULEVARD IMPROVEMENTS PROJECT, PHASE I

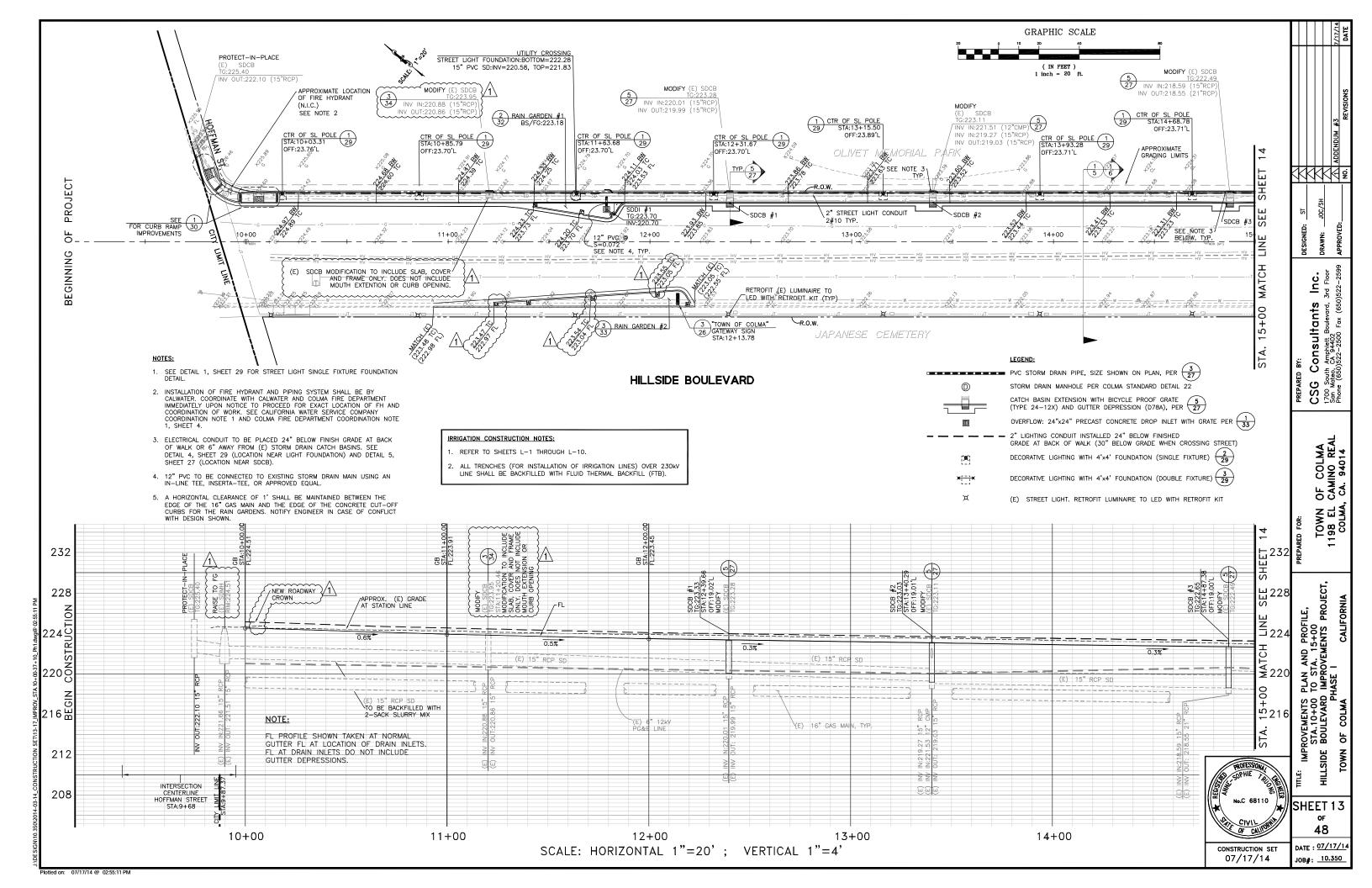
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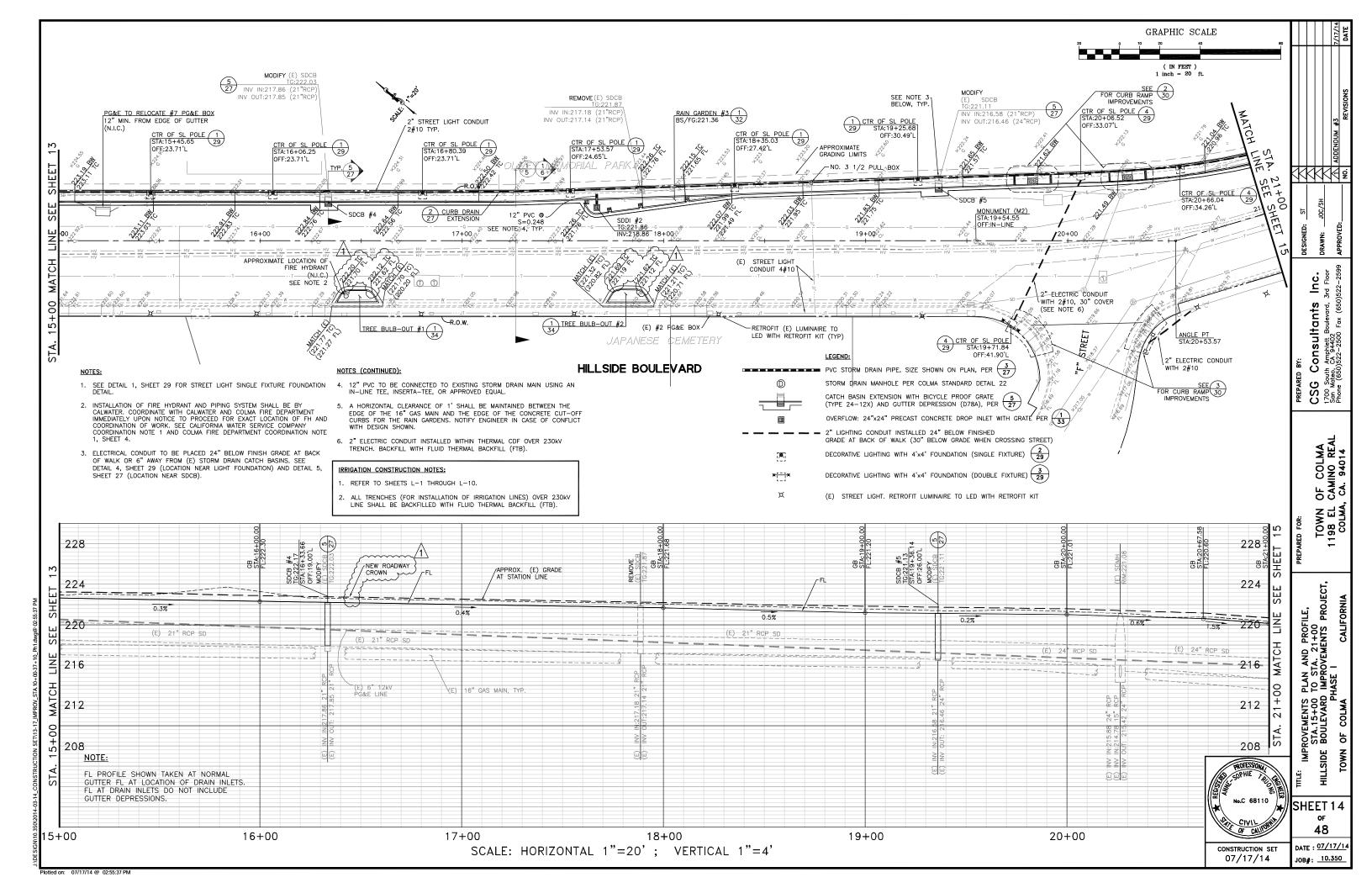
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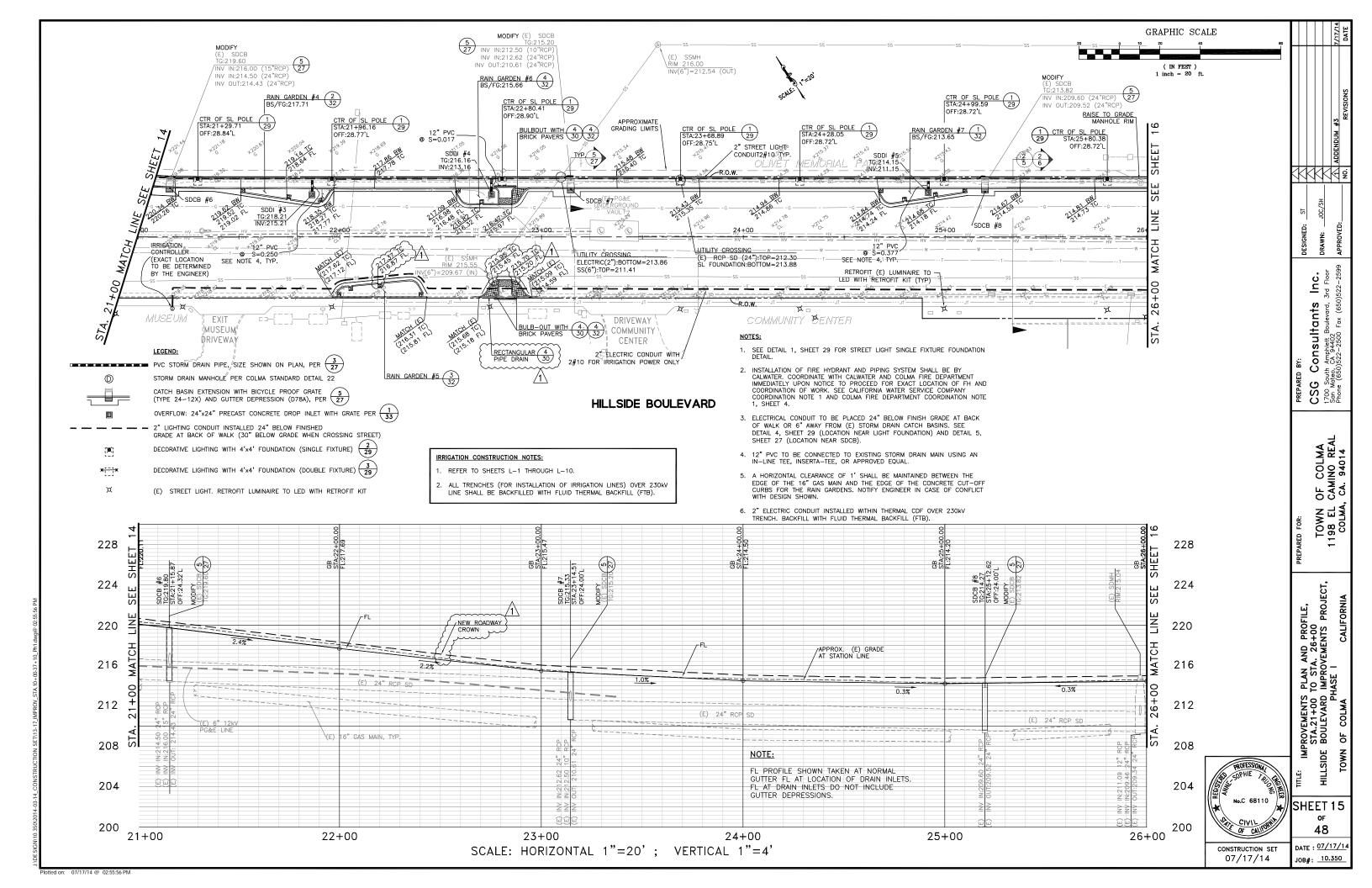


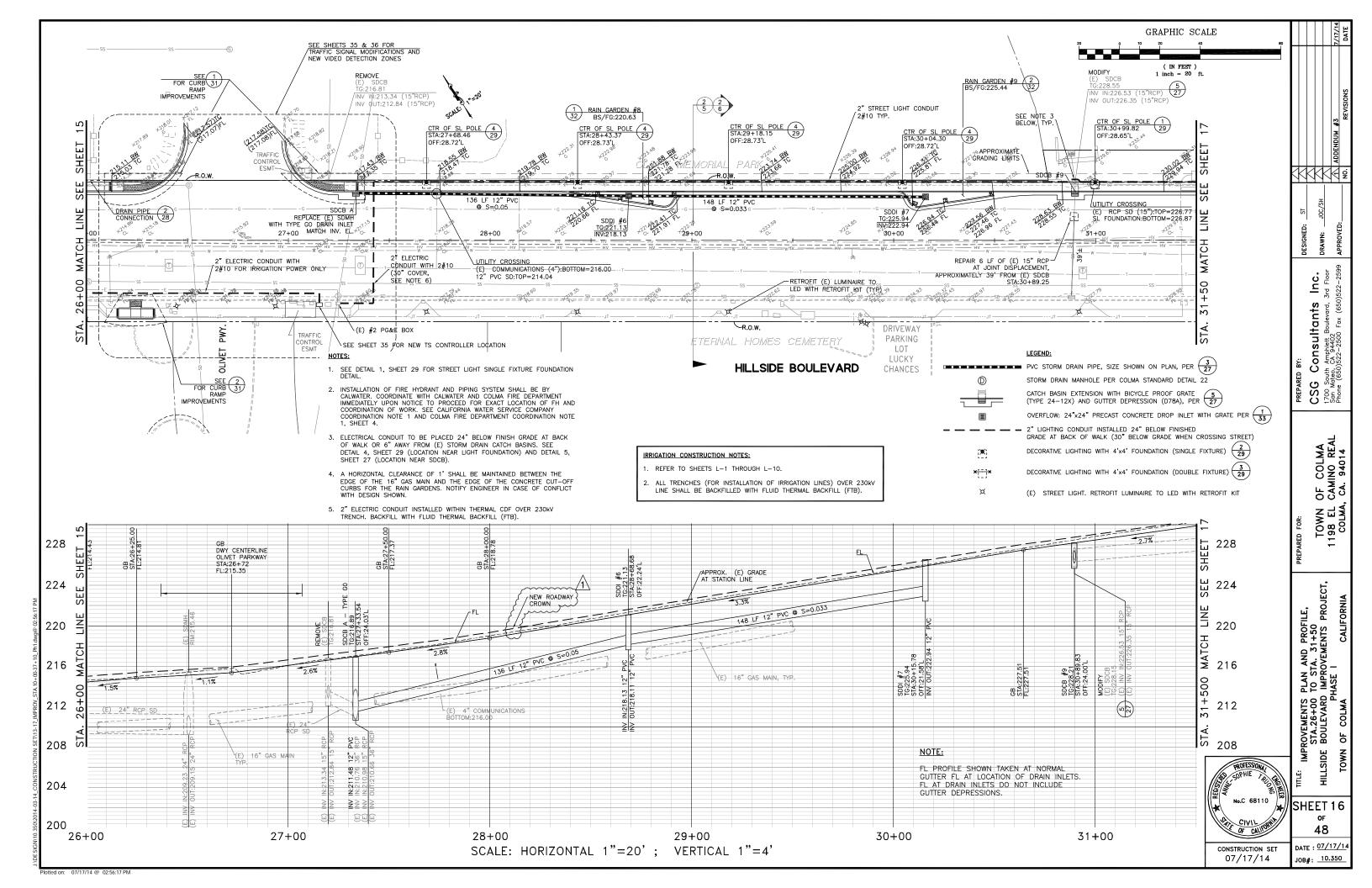


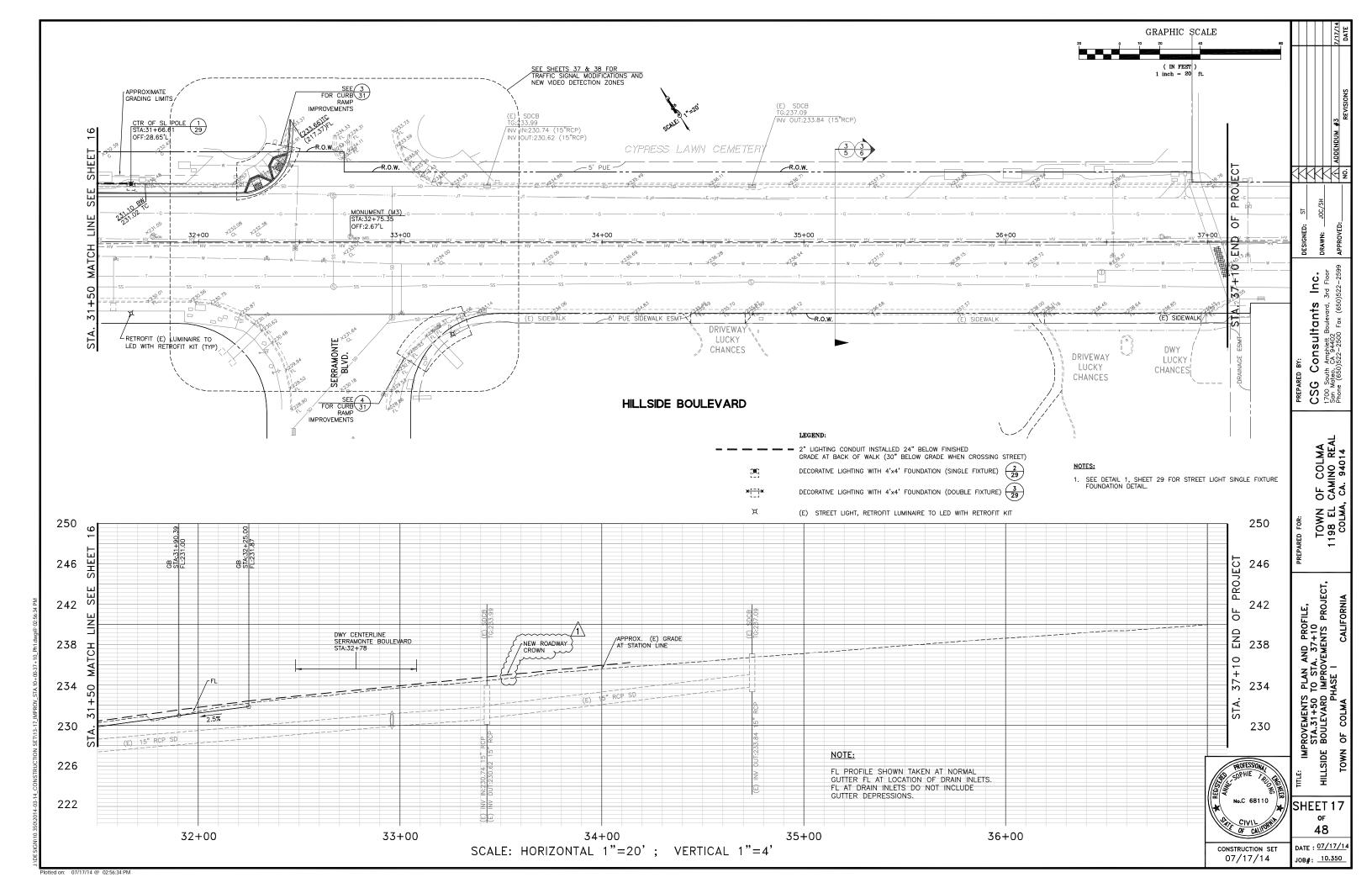


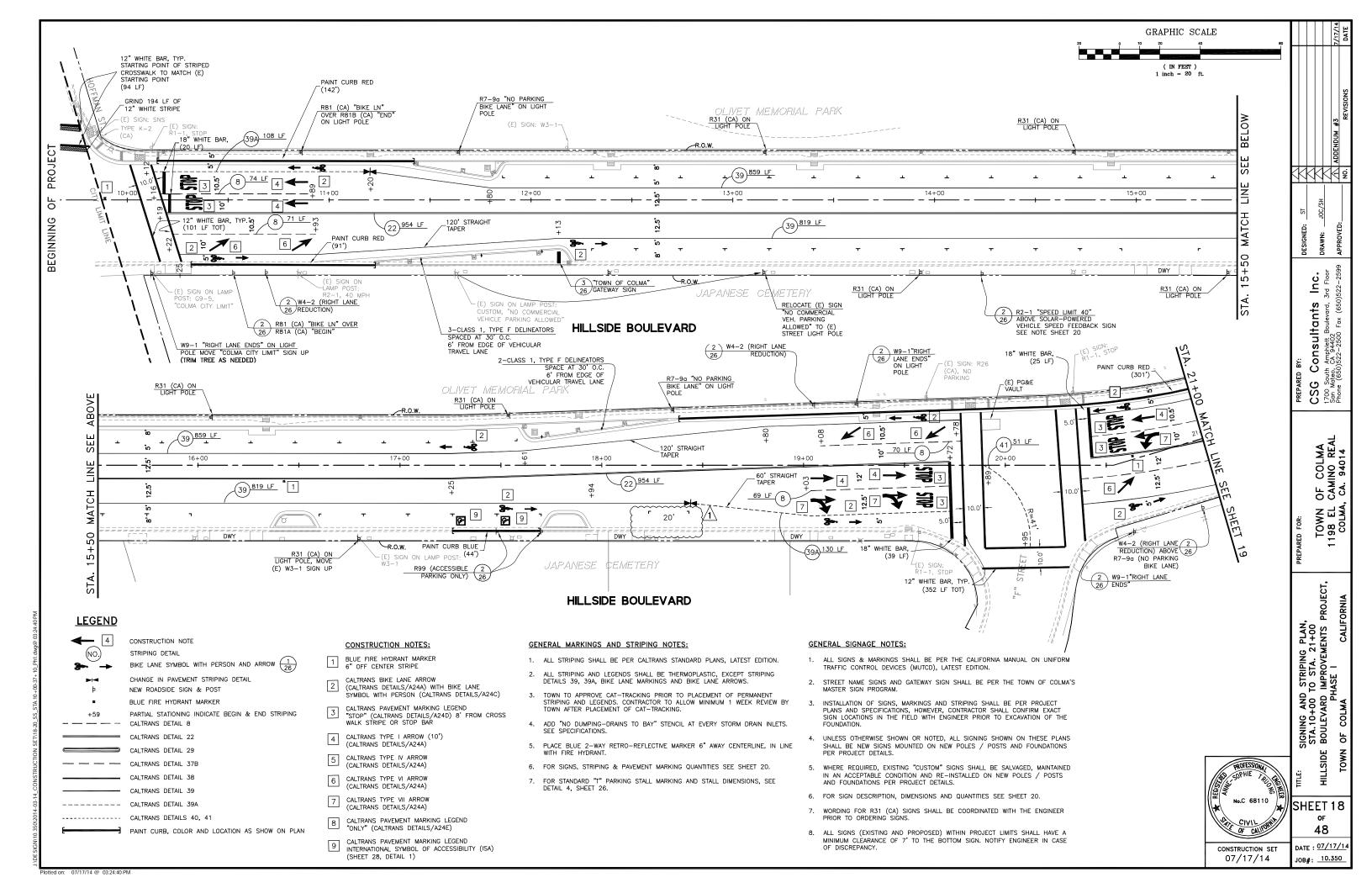


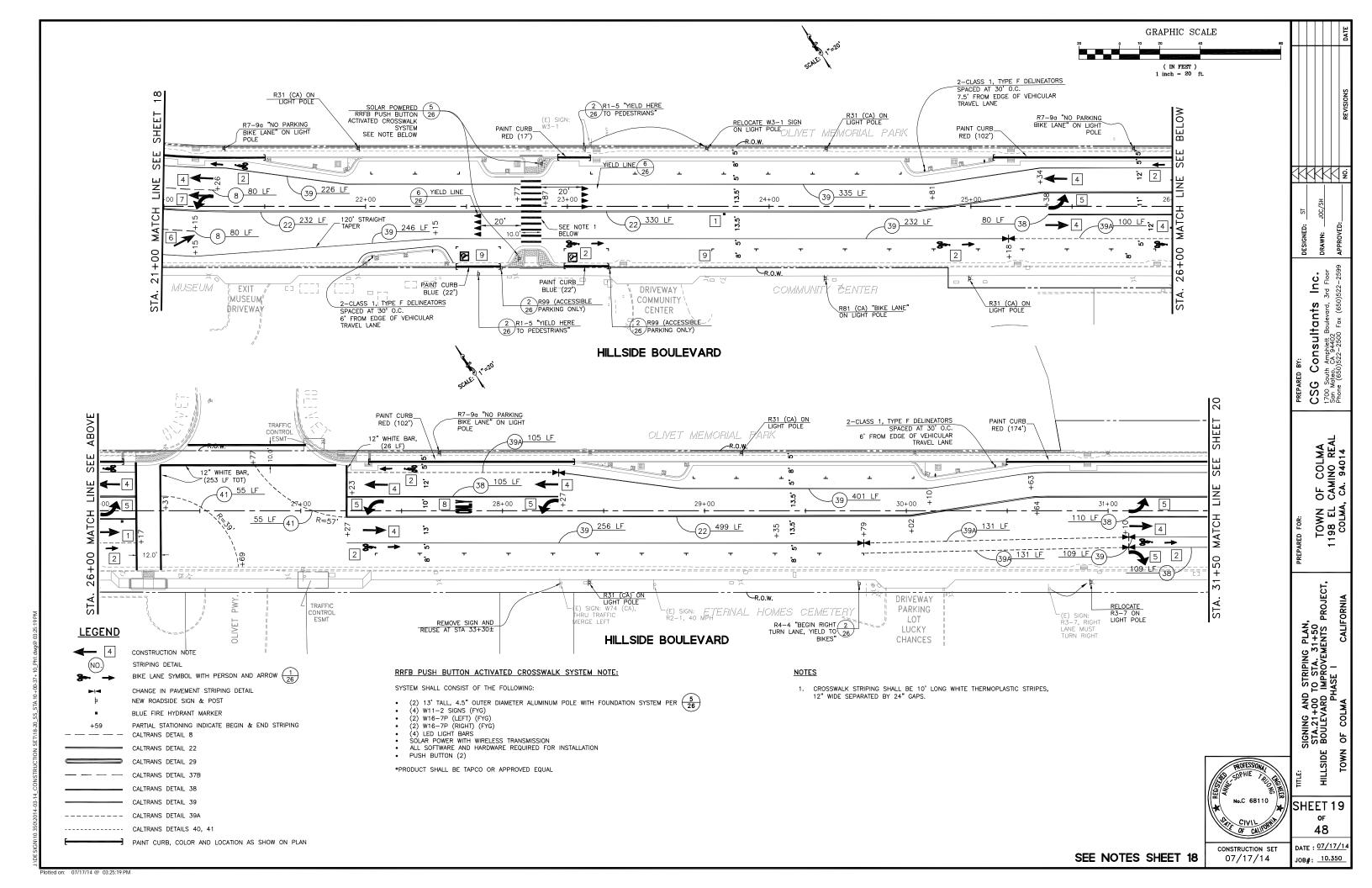


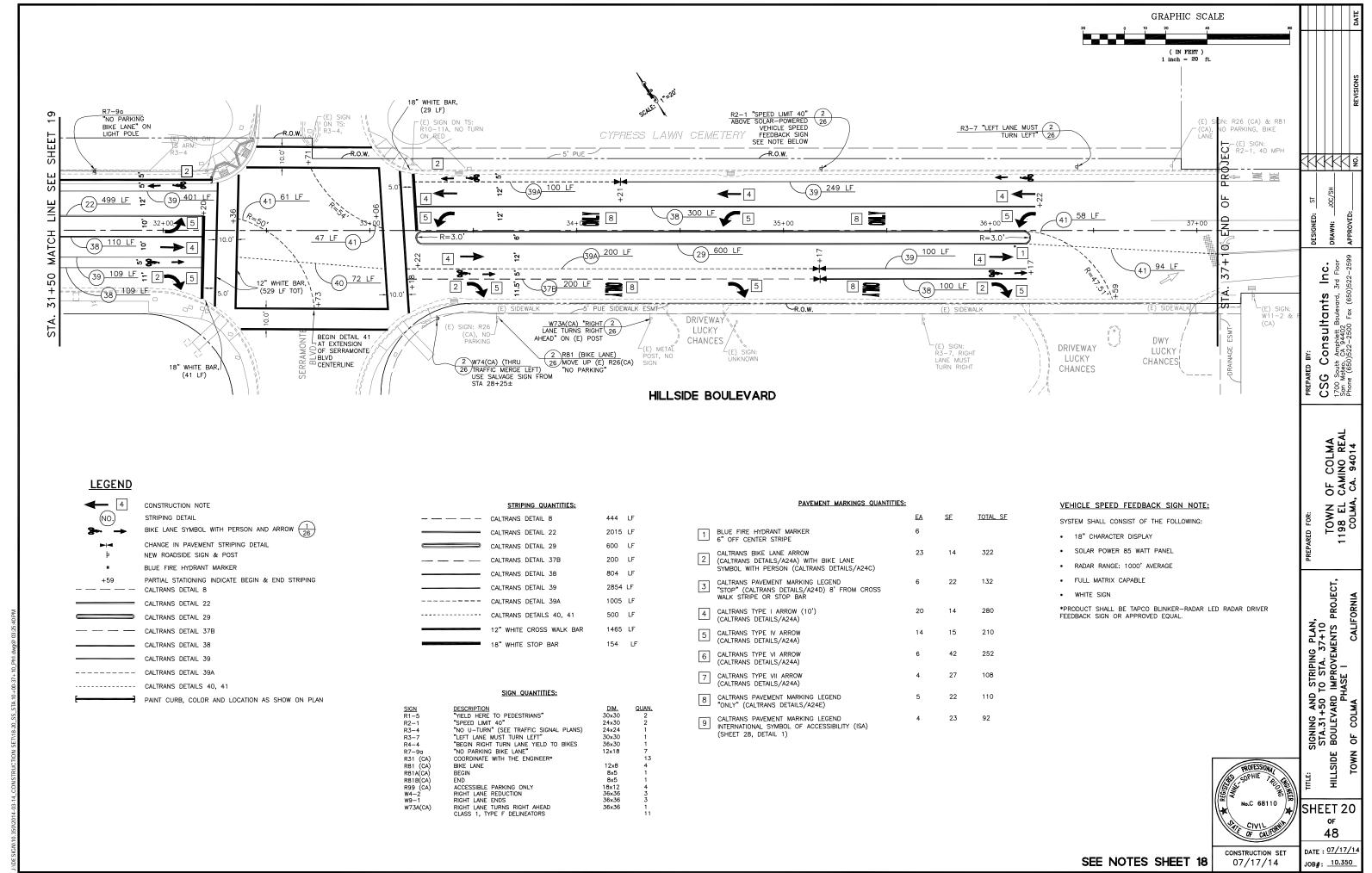


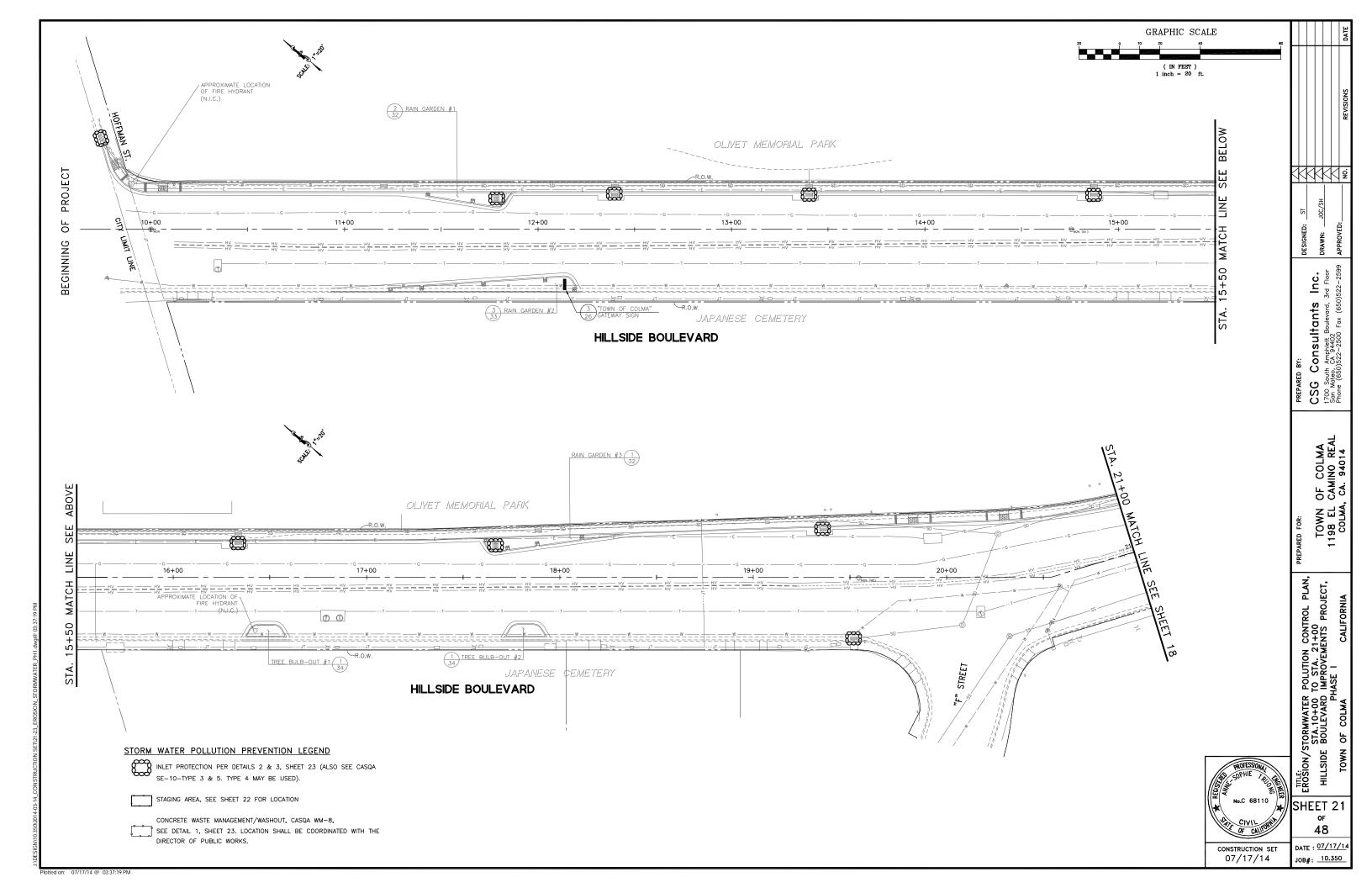


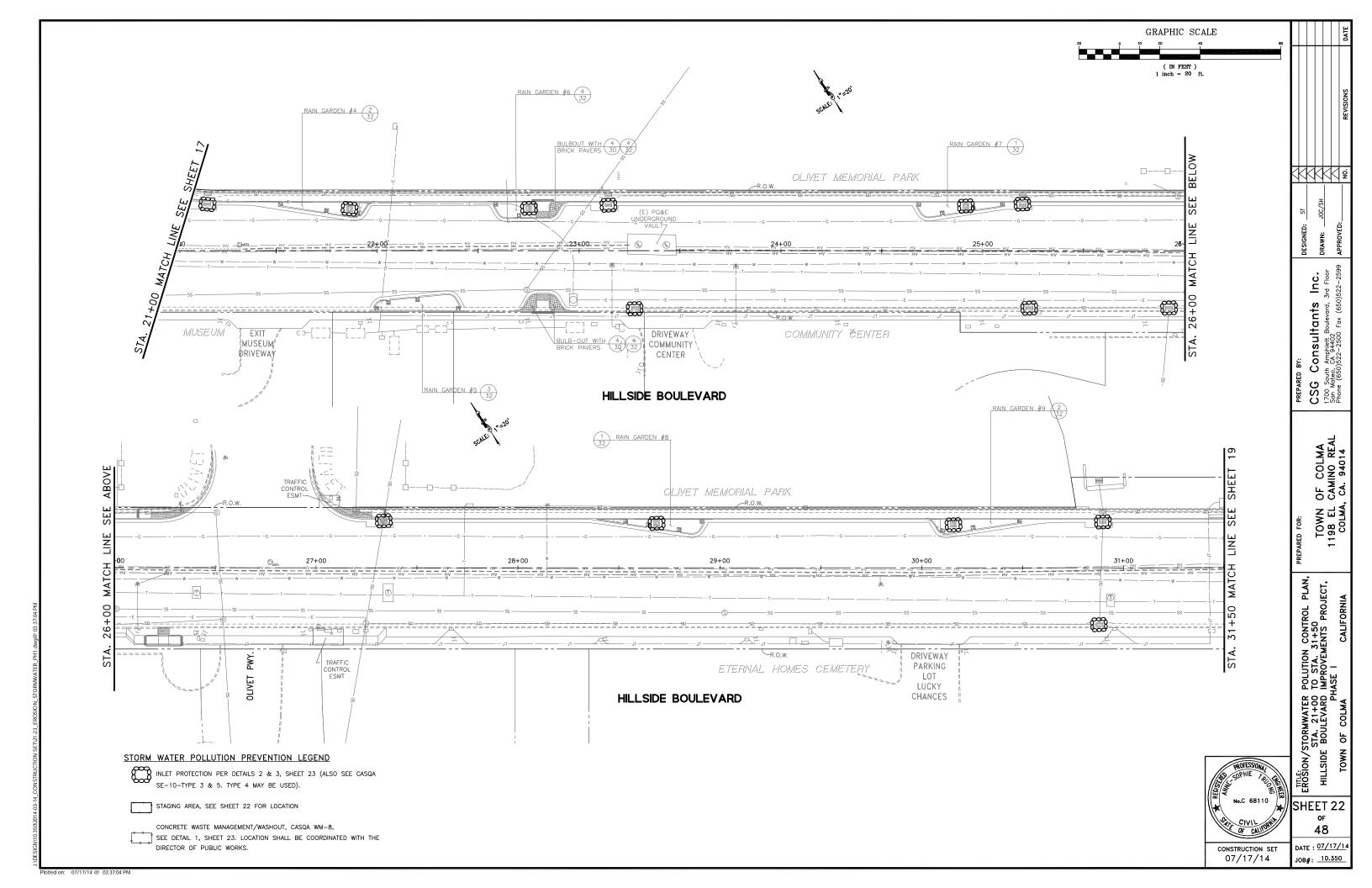


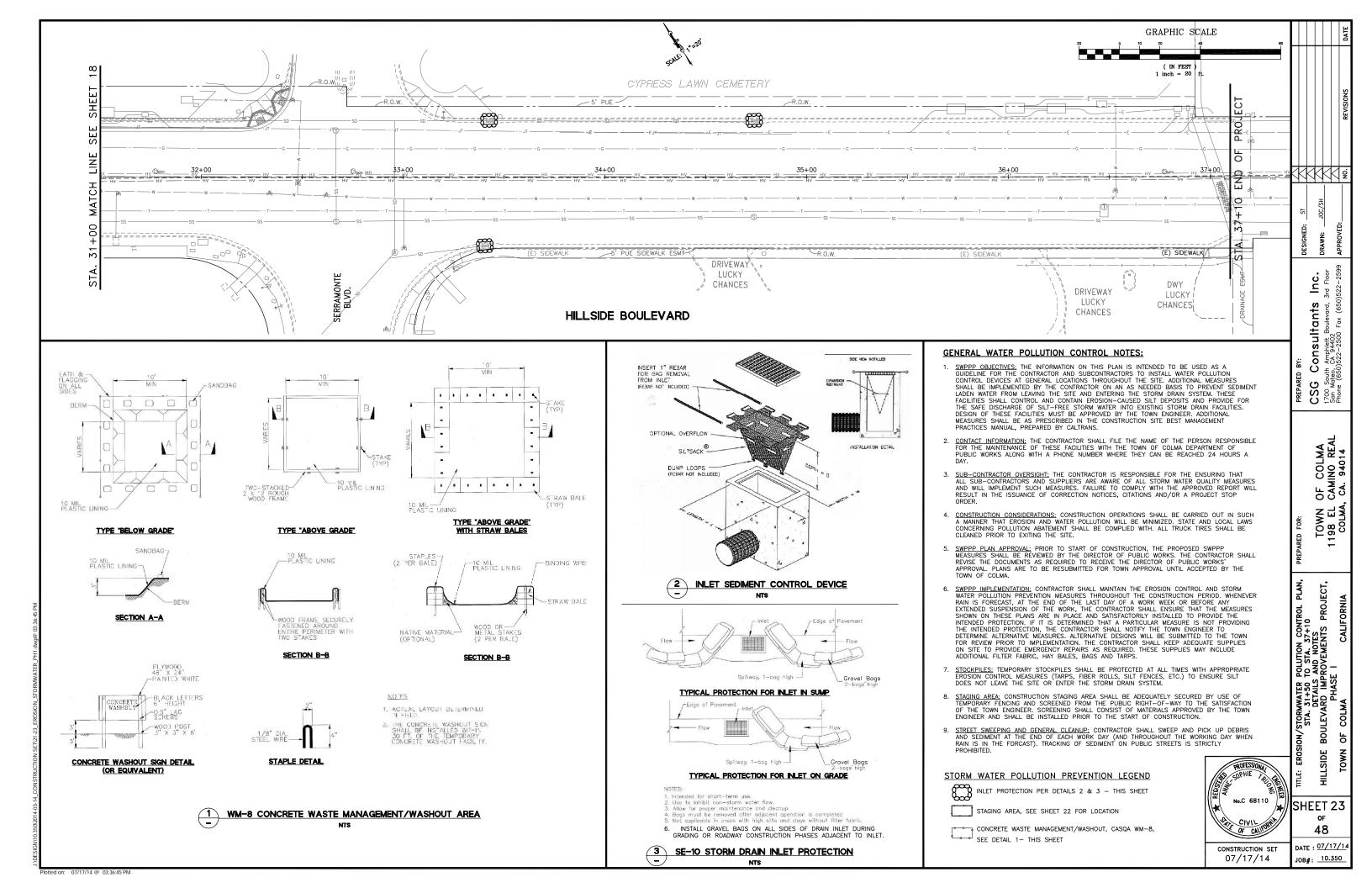












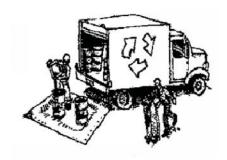
Construction Best Management Practices (BMPs)

Water Pollution **Prevention Program**

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Clean Water. Healthy Community.

Materials & Waste Management



Non-Hazardous Material

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within
- ☐ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ 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 forecast.
- ☐ 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.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ☐ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ☐ 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
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control

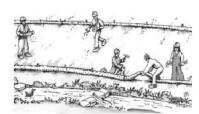


- ☐ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam cleaning equipment, etc.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (rags, absorbents, etc.) vailable at the construction site at all times
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made
- ☐ Clean up spills or leaks immediately and dispose of cleanup materials properly
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthwork & Contaminated Soils



Erosion Control

- ☐ Schedule grading and excavation work for dry weather only
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.

Sediment Control

- ☐ Protect storm drain inlets, gutters, ditches, and drainage courses with appropriate BMPs, such as gravel bags, fiber rolls,
- ☐ Prevent sediment from migrating offsite by installing and maintaining sediment controls, such as fiber rolls, silt fences, or
- ☐ Keep excavated soil on the site where it will not collect into the street.
- ☐ Transfer excavated materials to dump trucks on the site, not in the street.
- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality
- Unusual soil conditions, discoloration,
- Abandoned underground tanks
- Abandoned wells
- Buried barrels, debris, or trash

Paving/Asphalt Work



- ☐ Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- Cover storm drain inlets and manholes. when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand Do NOT sweep or wash it into gutters.
- Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

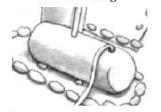
- ☐ Completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



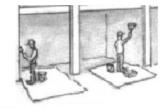
- ☐ Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a
- ☐ Wash out concrete equipment/trucks offsite or in a contained area, so there is no discharge into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ☐ Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal offsite.

Dewatering



- ☐ Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Divert run-on water from offsite away from all disturbed areas or otherwise ensure compliance.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required
- ☐ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine whether testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Painting & Paint Removal



Painting cleanup

- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or surface waters
- ☐ For water-based paints, paint out brushes to the extent possible. Rinse to the sanitary sewer once you have gained permission from the local wastewater treatment authority. Never pour paint down a drain
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as hazardous waste.

Paint removal

- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyltin must be disposed of as hazardous waste.
- ☐ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.

Landscape Materials



- ☐ Contain stockpiled landscaping materials by storing them under tarps when they are not actively being used.
- ☐ Stack erodible landscape material on pallets. Cover or store these materials when they are not actively being used or
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

07/17/14

48 DATE: 07/17/14

POLLUTION PREVENTION PLAN BOULEVARD IMPROVEMENTS PROJECT, PHASE I

HILLSIDE

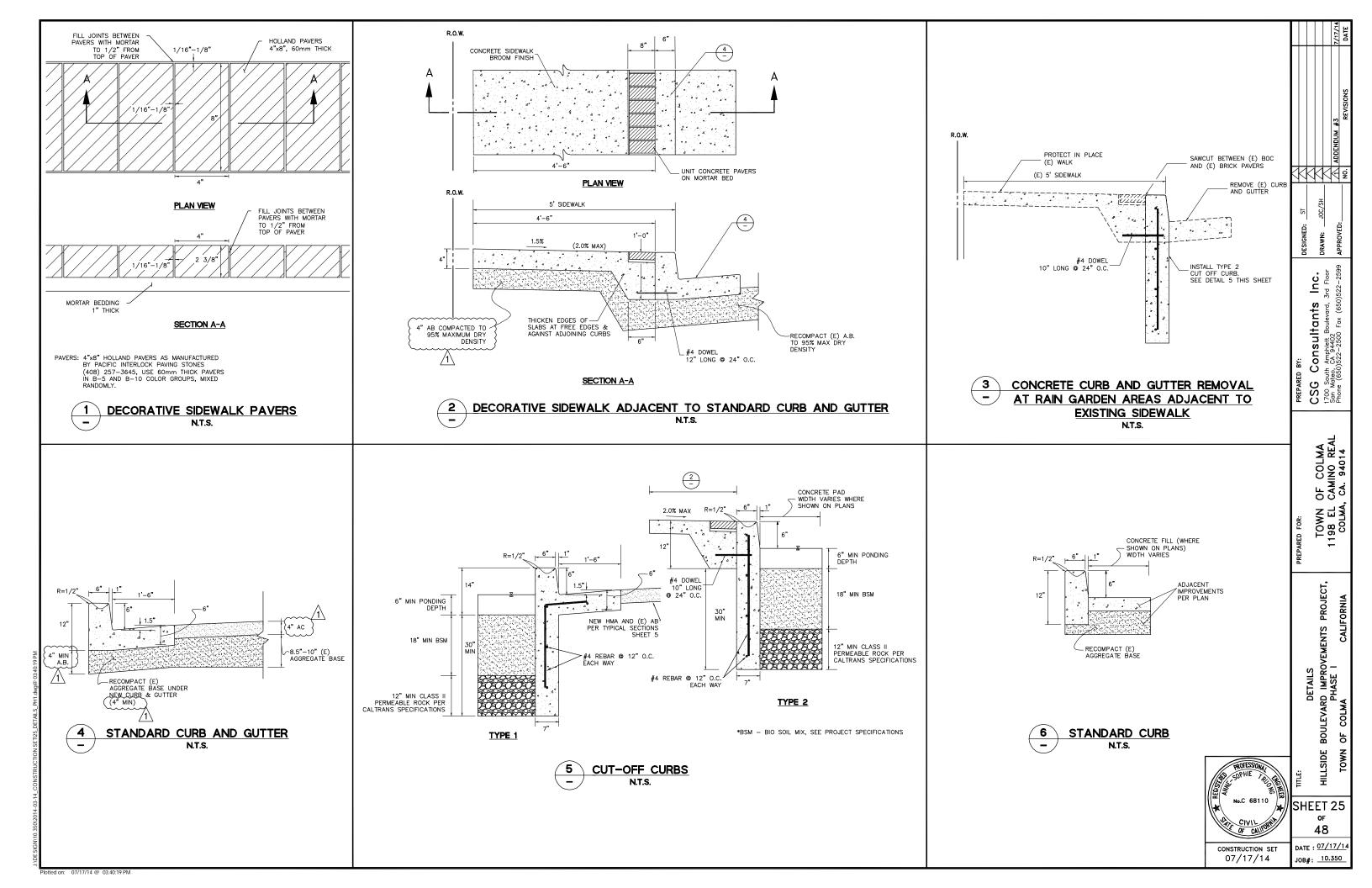
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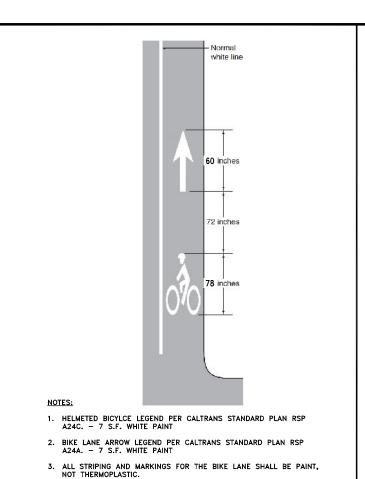
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Inc. 3rd Floor)522–259

SG Consultants
O South Amphlett Boulevard, 3
Marleo, CA 94402
one (650)522-2500 Fax (650)5

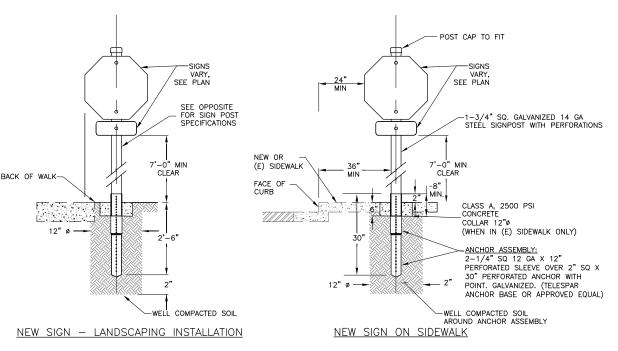
Storm drain polluters may be liable for fines of up to \$10,000 per day!





TYPICAL HELMETED BICYCLIST MARKING

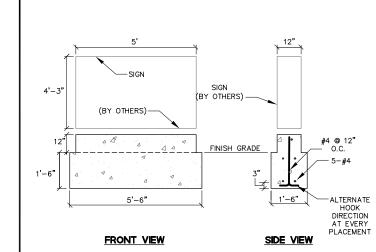
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NOTES:

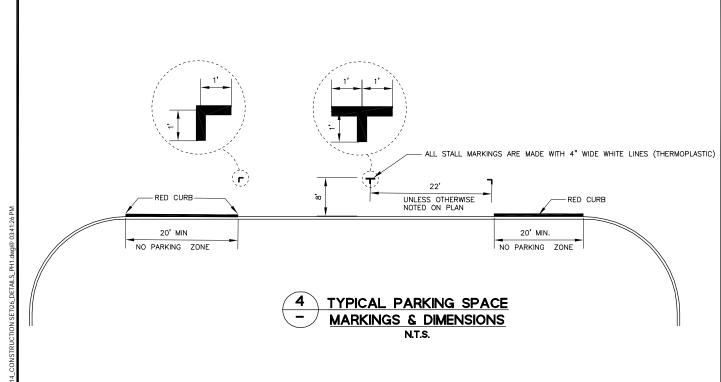
- 1. SIGNS SHALL COMPLY WITH LATEST CALIFORNIA MUTCD.
- 2. POST AND BASE FOR THE SIGN SHALL CONFORM TO THE SPECIFICATIONS.
- 3. SIGNS SHALL BE INSTALLED WITH STRAIGHT BOLTS FOR CONVENTIONAL SIGN INSTALLATION AND SQUARE POST SYSTEM CORNER-BOLTS FOR BACK TO BACK INSTALLATION, IF REQUIRED.

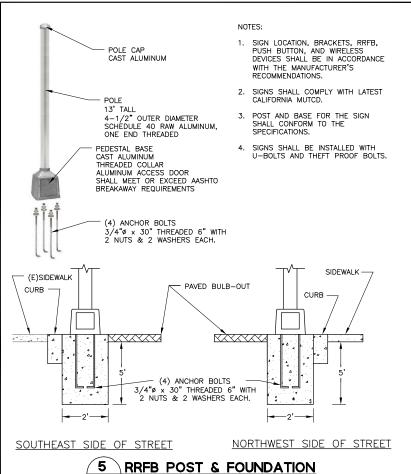




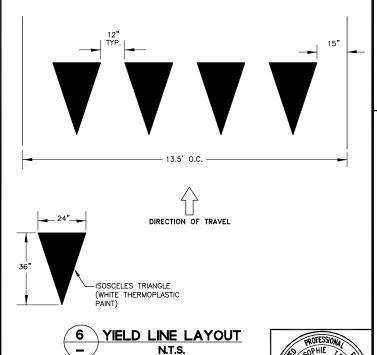
CONFIRM FOUNDATION LOCATION AND ORIENTATION WITH ENGINEER PRIOR TO START OF EXCAVATION.

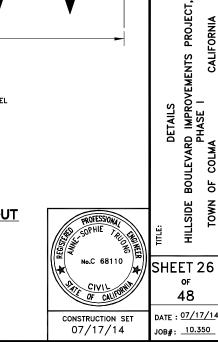
GATEWAY SIGN FOUNDATION N.T.S.





N.T.S.





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CSG Consultants
1700 South Amphlett Boulevard, 3
San Mateo, CA 94402
Phone (650)522-2500 Fax (650)5

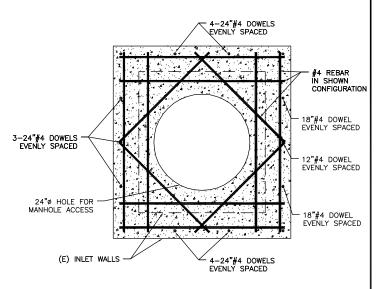
OF COLMA CAMINO REAL , CA. 94014

TOWN 1198 EL COLMA,

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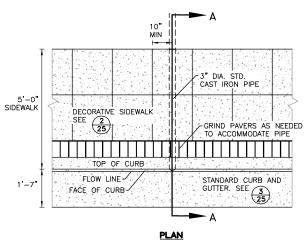
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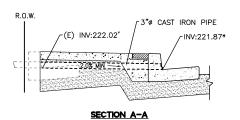


NOTES:

- 1. DOWEL INTO WALLS OF (E) STORM DRAIN INLET.
- THE EXACT DIMENSIONS OF (E) STORM DRAIN INLETS ARE UNKNOWN, CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTING SLAB COVER.

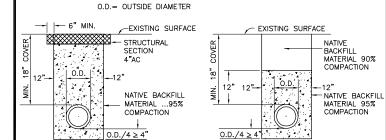






*PLACE PIPE OUTLET WITH I.E. ABOVE FLOW LINE BUT MAINTAIN MIN. 2% SLOPE FOR PIPE





TYPE A (IN ROADWAY)

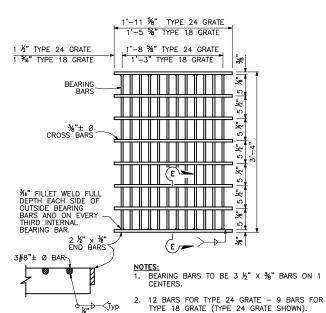
TYPE B (OUTSIDE ROADWAY)

THERE SHALL BE A MINIMUM OF ONE AND ONE-HALF FEET (18 INCHES) OF COVER OVER ELECTRICAL CONDUIT AND TWO AND ONE—HALF FEET (30 INCHES) OF COVER OVER ALL STROM DRAIN PIPES UNLESS OTHERWISE DIRECTED BY THE TOWN.

NATIVE BACKFILL SHALL BE APPROVED BY THE TOWN PRIOR TO RE-USE AND SHALL BE FREE FROM STONES AND LUMPS EXCEEDING 4 INCHES IN GREATEST DIMENSION, VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL.

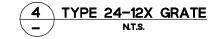
CONTRACTOR TO SHORE ALL TRENCHES IN ACCORDANCE WITH OSHA AND STATE OF CALIFORNIA SAFETY STANDARDS.

3 STANDARD TRENCH BACKFILL AND BEDDING DETAIL STORM DRAIN PIPES AND ELECTRICAL CONDUIT N.T.S.

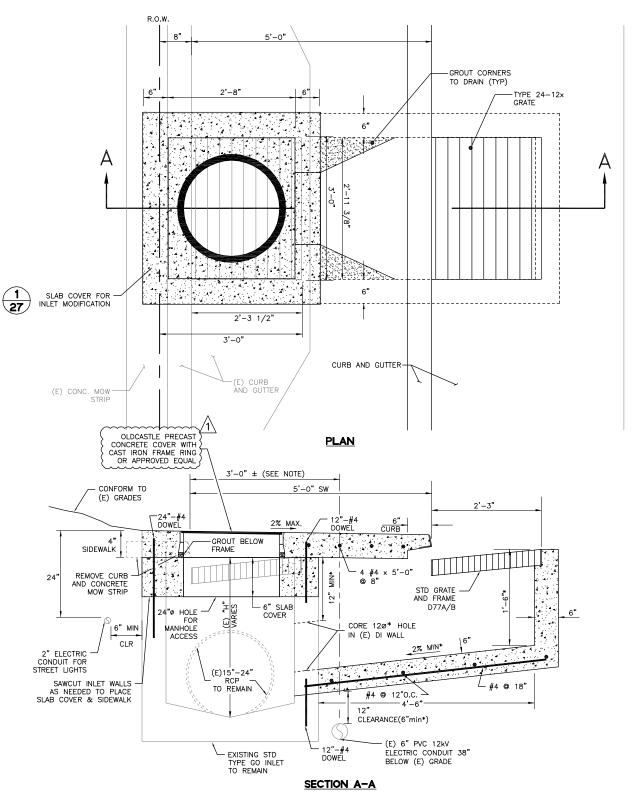


BEARING BARS TO BE 3 ½" X ¾" BARS ON 1 ¾" CENTERS.

- 3. WEIGHT OF TYPE 24 GRATE = 192 LBS.
- 4. WEIGHT OF TYPE 18 GRATE = 145 LBS.
- 5. %"± Ø CROSS BARS MAY BE FILLET WELDED, RESISTANCE WELDED OR ELECTROFORGED TO BEARING BARS.



SECTION E-E



NOTE: EXACT LOCATION OF 6" PG&E CONDUIT MAY VARY FROM WHAT IS SHOWN ON PLAN OR HEREON.
DIMENSIONS MARKED WITH "*" SHALL VARY TO ACCOMMODATE PG&E CONDUIT AT THE DISCRETION
THE PROJECT OF OF THE ENGINEER.





CONSTRUCTION SET 07/17/14

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BOULEVARD IMPROVEMENTS PHASE I DETAILS HILLSIDE SHEET 27

Consultants
outh Amphlett Boulevard, 3
teo, CA 94402
(550)522—2500 Fox (650)

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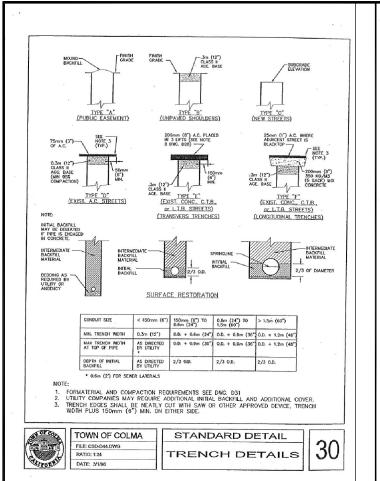
OF COLMA CAMINO REAL , CA. 94014

TOWN 1198 EL COLMA,

PROJECT,

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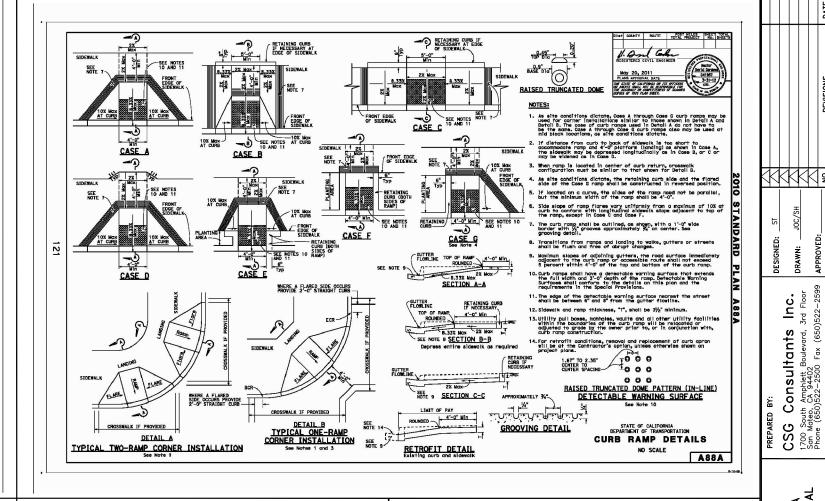
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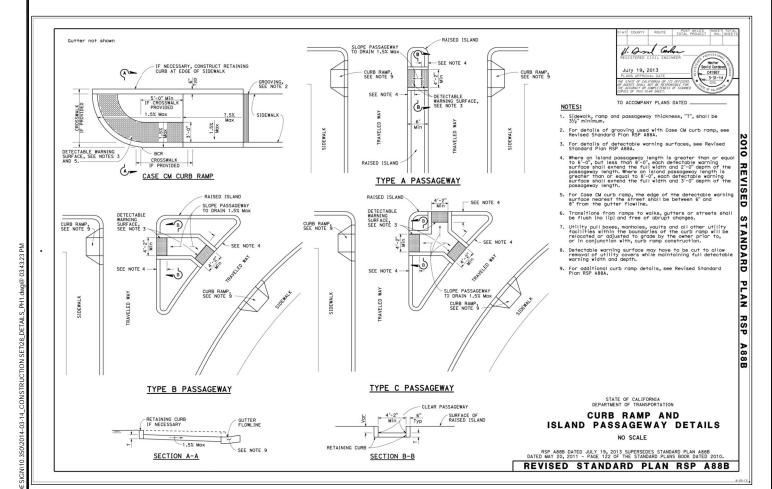


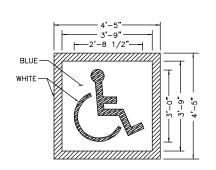
NOTES: TRENCH DETAILS

- INITIAL BACK FILL MATERIAL SHALL CONFORM TO REQUIREMENTS OF THE UTILITY HAVING JURISDICTION OVER THE INSTALLATION, AND SHALL ALSO MEET THE FOLLOWING MINIMUM RECUIREMENTS: AT LEAST 90% PASSING 19 mm (3/4*) SIEVE, NOT MORE THAN 15% PASSING 75 MICRON (NO. 200) SIEVE, SAND EQUIVALENT OF AT LEAST 30, AND RELATIVE COMPACTION OF 95%.
- INTERMEDIATE BACK FILL SHALL BE ANY SUITABLE NATIVE OR IMPORTED GRANULAR MATERIAL. RELATIVE COMPACTION SHALL BE AT LEAST 95%.
- CLASS II AGGREGATE BASE SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA. MINIMUM RELATIVE COMPACTION SHALL BE 95%. IF PAVEMENT HAVING A STRUCTURAL SECTION GREATER THAN 80 mm (15") IS CUT. ADDITIONAL BASE MATERIAL MAY BE REQUIRED BY THE CITY ENGINEER. BASE SHALL BE PLACED AND COMPACTED PRIOR TO PLACING THE TEMPORARY PAVEMENT.
- 4. WHEN TRENCHES ARE BACK FILLED WITH GRANULAR MATERIALS, ADEQUATE PROVISIONS MUST BE MADE TO DRAIN OFF WATER WHICH WILL BE COLLECTED IN THE
- 5: THE TESTING AND PERFORMANCE OF MATERIALS SHALL BE IN CONFORMANCE WITH THE METHODS STATED IN THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION MATERIALS MANUAL EXCEPT THAT RELATIVE COMPACTION MAT BE TESTED BY AASHO METHOD T180-57c, OR TEST METHOD CALIF. 231
- 6. ADDITIONAL THICKNESS AND LIFTS OF ASPHALT CONCRETE MAY BE REQUIRED TO
- CONTRACTOR MUST SHORE ALL TRENCHES IN ACCORDANCE WITH OSHA AND STATE OF CALIFORNIA SAFETY STANDARDS.

	TOWN OF COLMA	STANDARD DETAIL					
l	FILE: CSD-D45.DWG	NOTEO					
l	RATIO: 1:24	NOTES	1				
l	DATE: 3/1/98	TRENCH DETAILS					

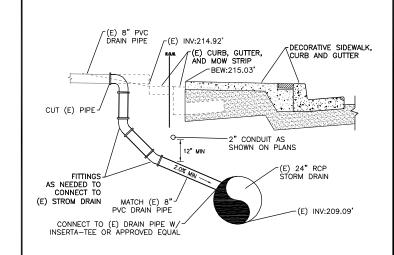






INSTALL ISA MARKER AT CENTER REAR LIMITS OF STALL.





DRAIN PIPE CONNECTION

(N.T.S.)



CONSTRUCTION SET 07/17/14

HILLSIDE OF

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OF COLMA CAMINO REAL , CA. 94014 TOWN 1198 EL COLMA,

Jn

Consultants
uth Amphlett Boulevard, 3
eo. CA 94402
650)522-2500 Fax (650)

CSG 1700 Son San Mati

Fax

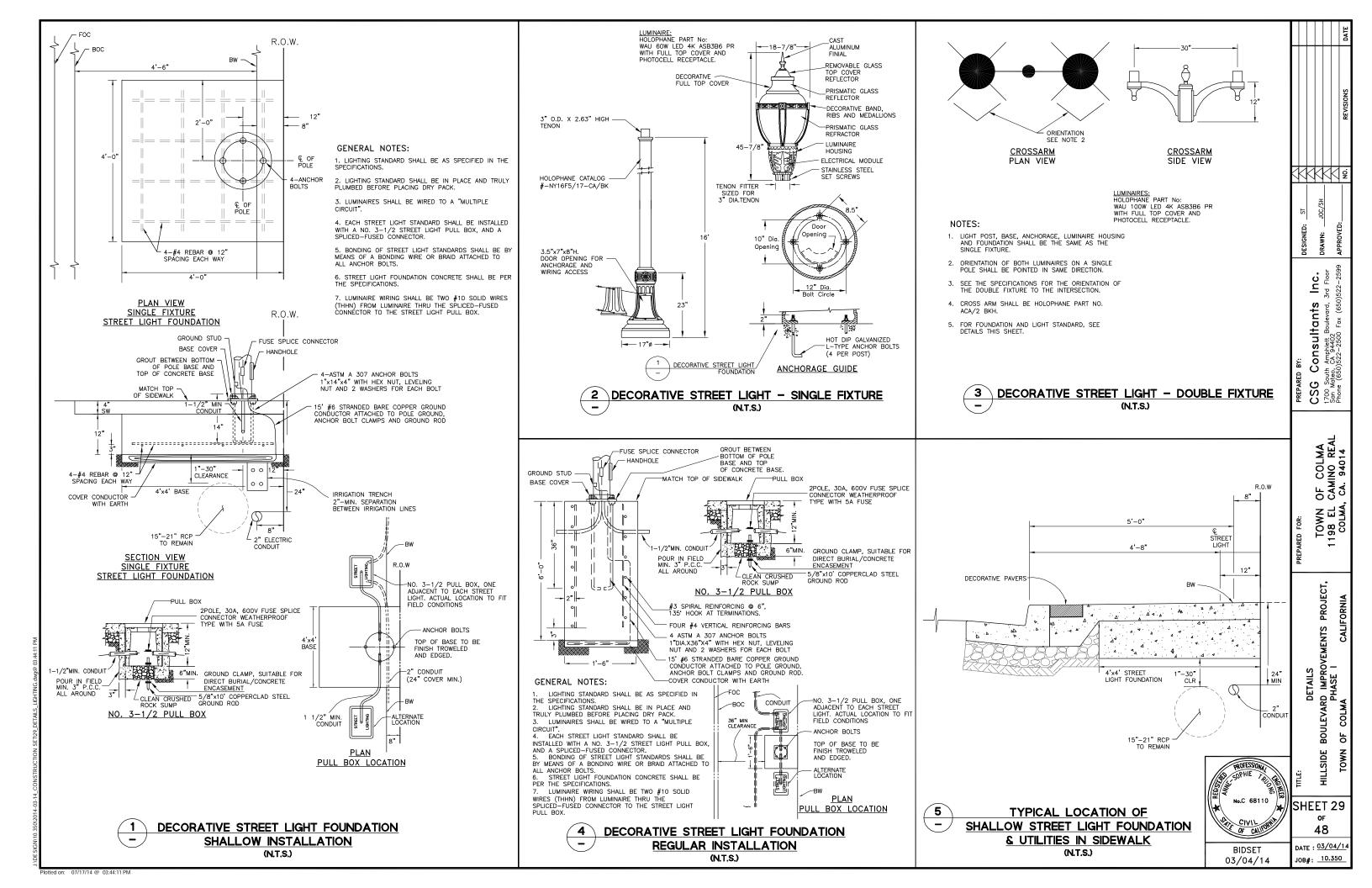
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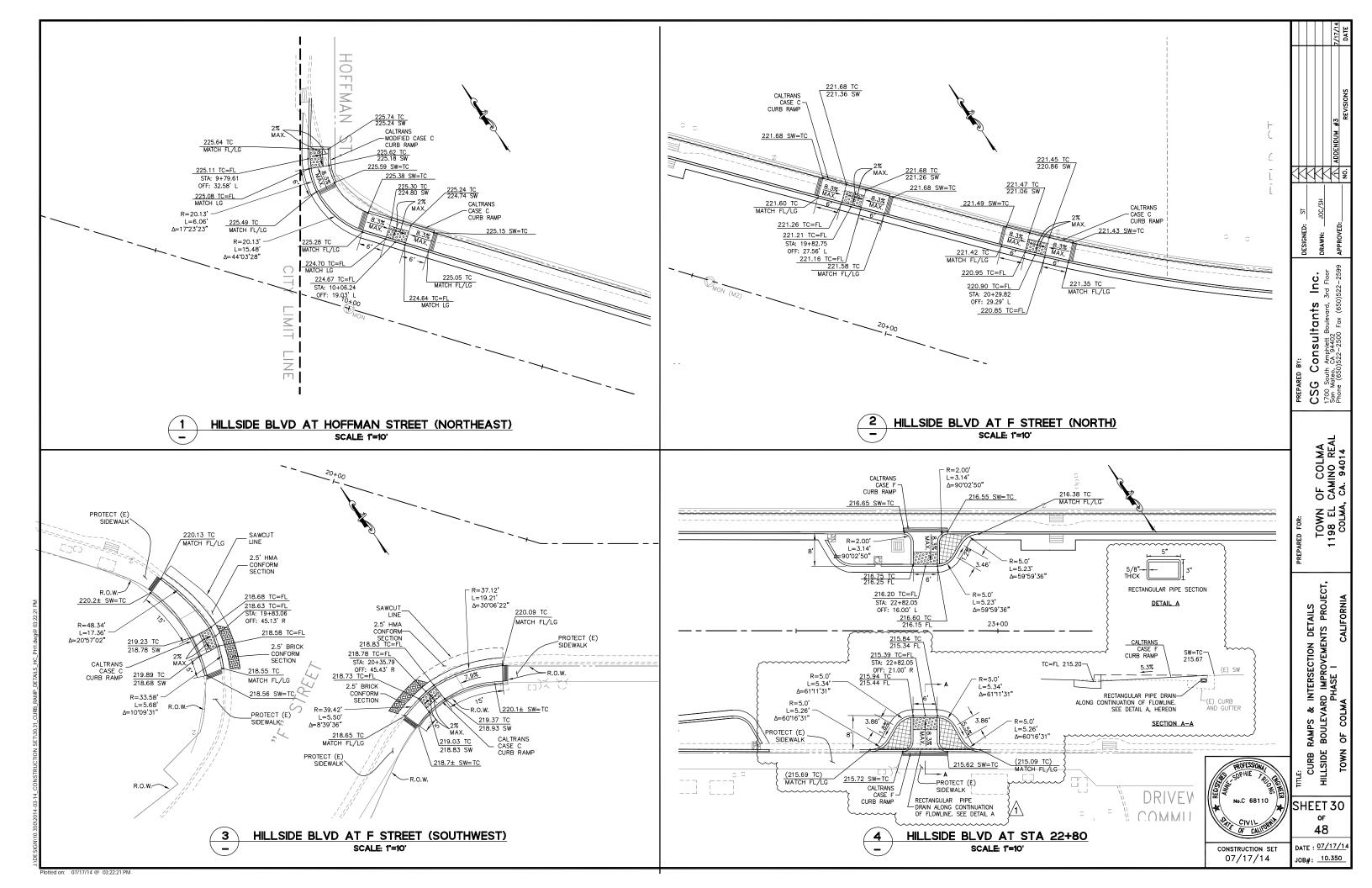
BOULEVARD IMPROVE PHASE I DETAILS

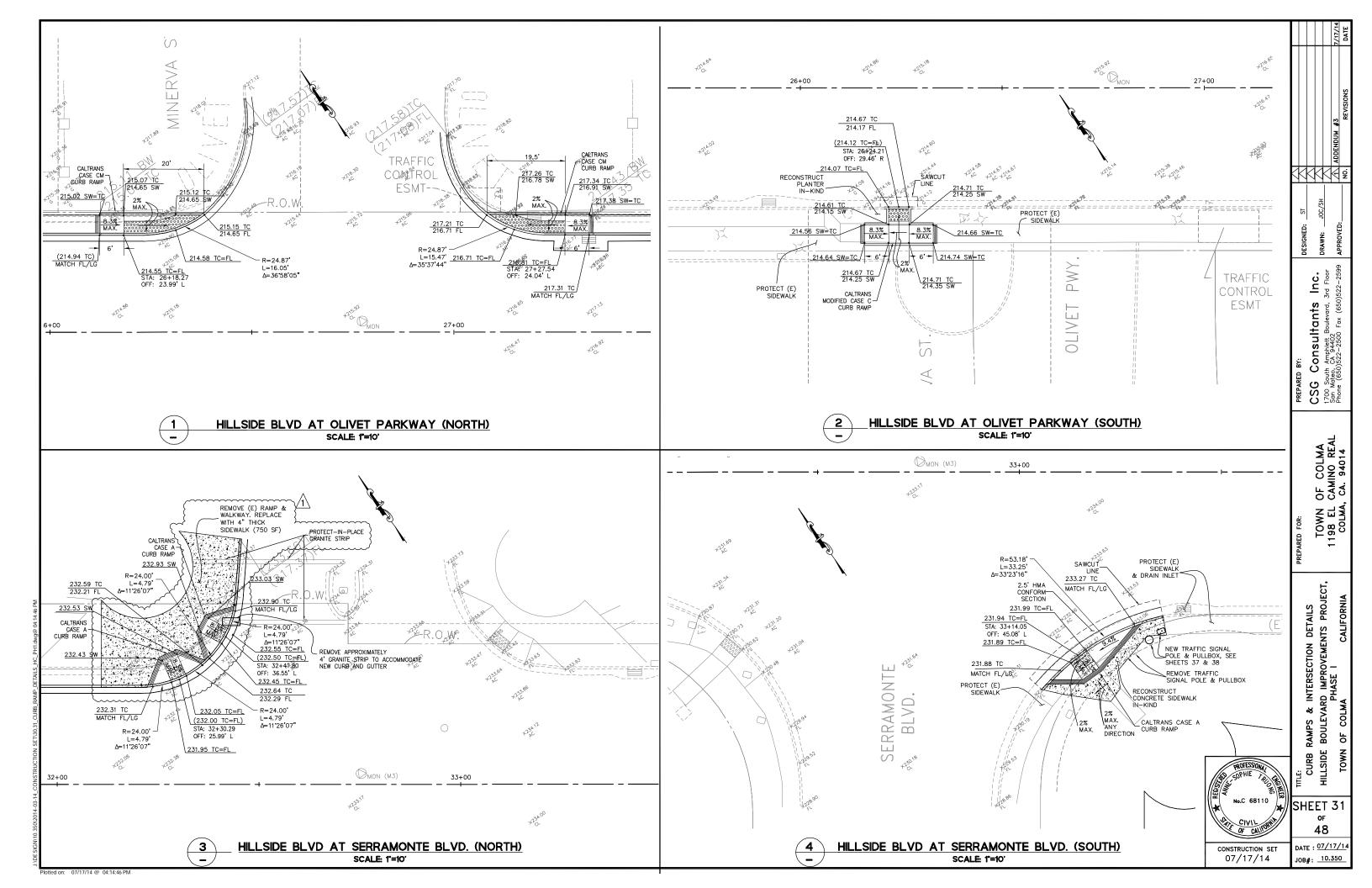
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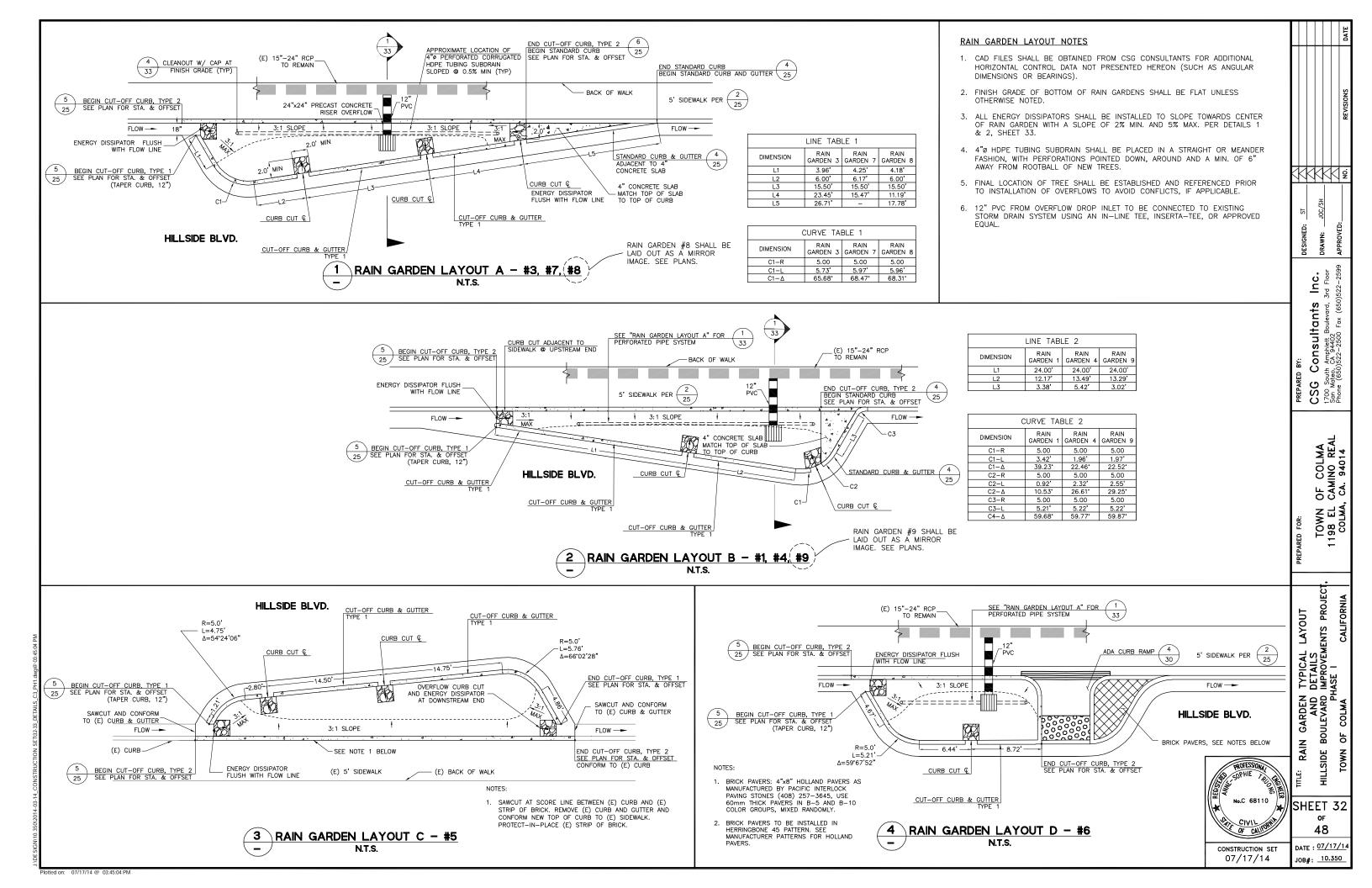
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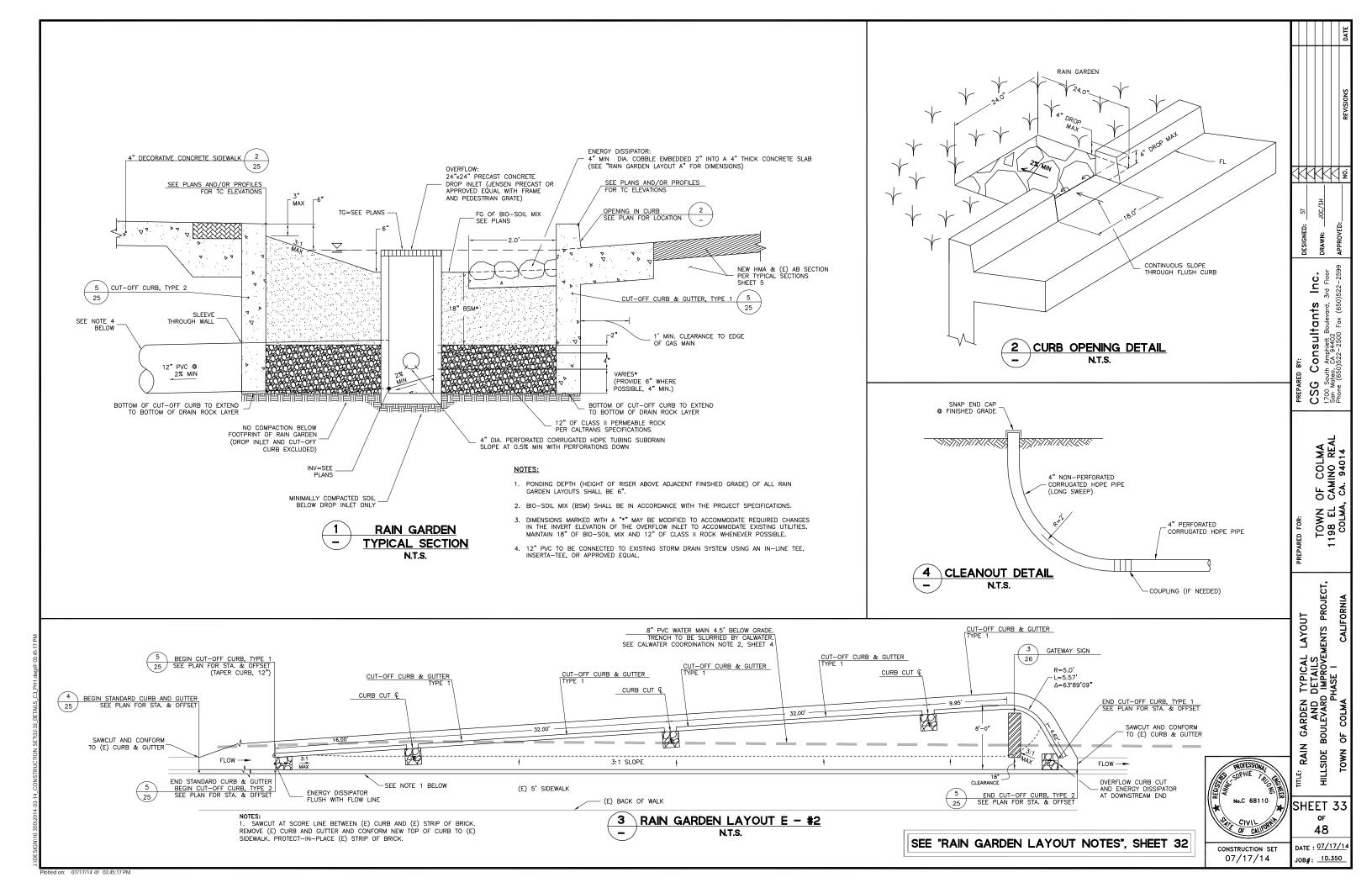
DATE: 07/17/14 JOB#: 10.350

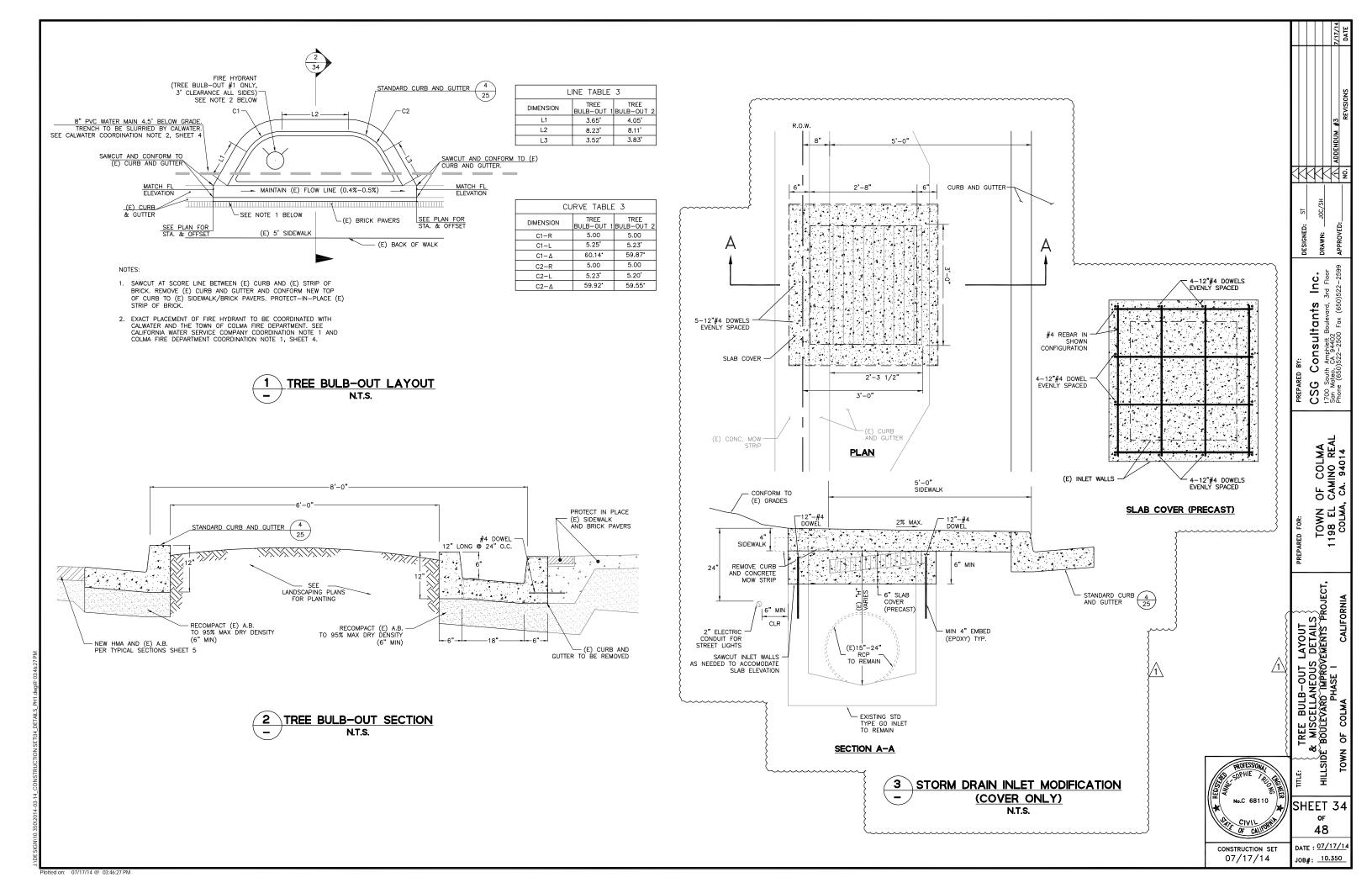


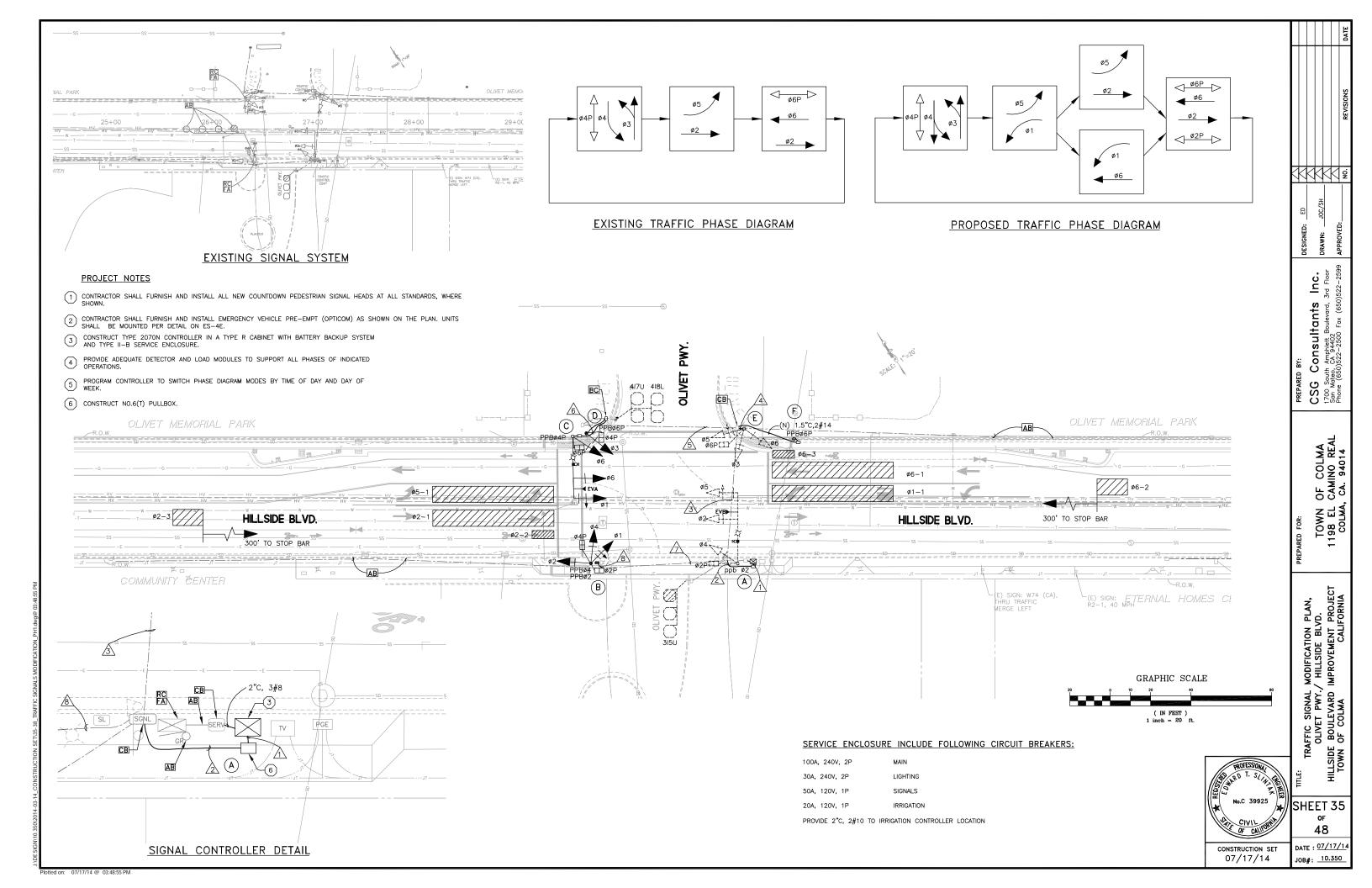












GENERAL NOTES

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	CONDUCTOR AND CONDUIT SCHEDULE													
AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	<u></u>	<u></u>	A	<u> </u>	<u></u>	1	1	$\overline{\mathbb{A}}$	13
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	Ø 6P	2	2	2		2	2							
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	Ø6PPB	1	1	1	1	1	<u> </u>							
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	PEU PEU	4	4	<u> </u>	<u>'</u>	<u> </u>		-'-				 	 	
	Spares	6	6	3	3	3	3	3	3					
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	STREET LIGHTS	2	2	2	17	2	2	13	13				_	
		-												
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DETECTOR LOOP	214U	_	-											
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CABLE	TOTAL VIDEO CAMERA CABLE	2	2	1		1	1					<u> </u>		
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^{*} CONDUCTORS TO BE REMOVED



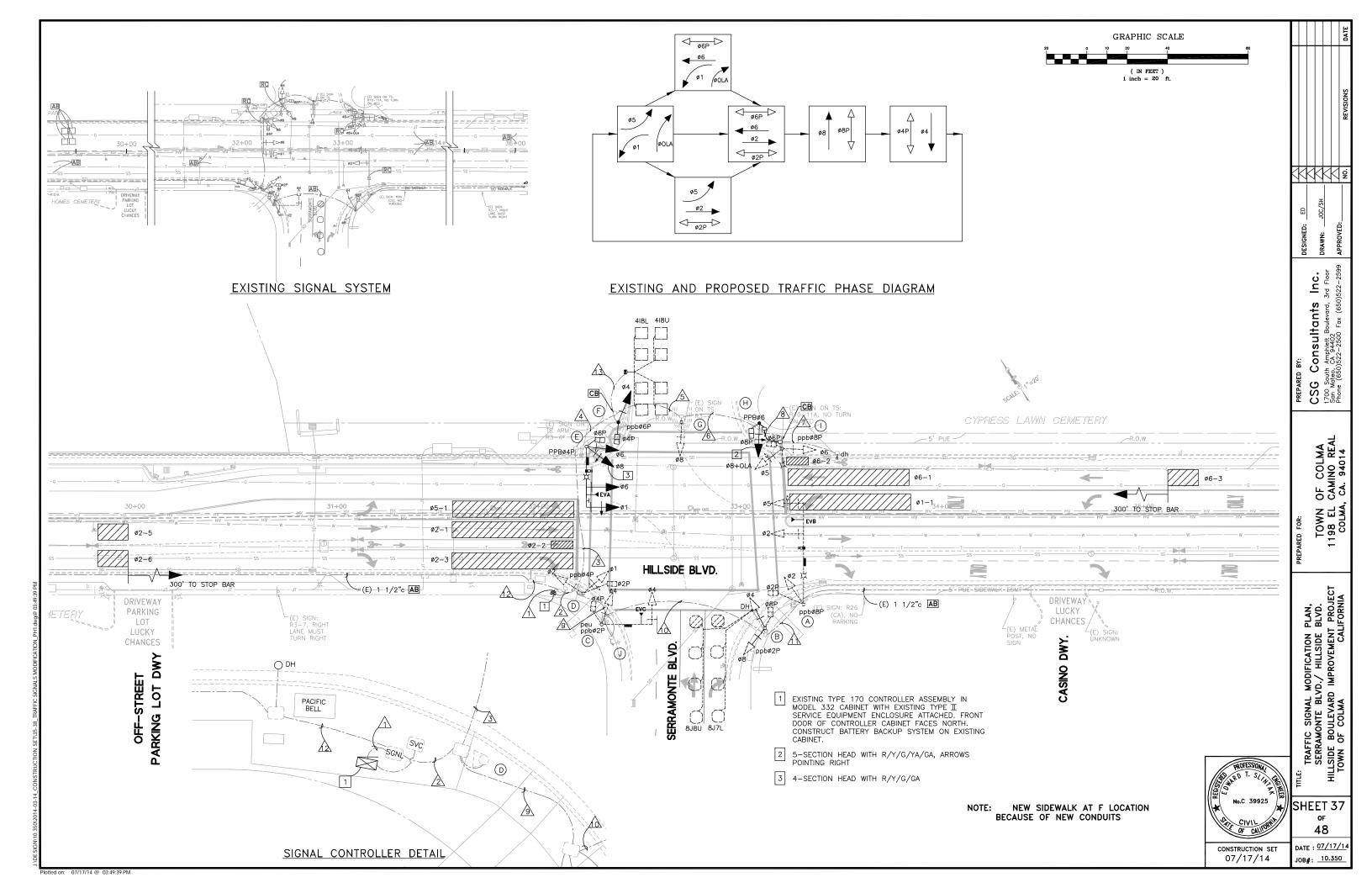
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DESIGNED: DRAWN: ا الم عط CSG Consultants
1700 South Amphett Boulevard, 31
San Mateo, CA 94402
Phone (650)522-2500 Fax (650)5 OF COLMA CAMINO REAL CA. 94014 TOWN 1198 EL COLMA,

TRAFFIC SIGNAL MODIFICATION PLAN, OLIVET PWY./ HILLSIDE BLVD.
IDE BOULEVARD IMPROVEMENT PROJECT WN OF COLMA

SHEET 36 48

DATE: 07/17/14 CONSTRUCTION SET JOB#: 10.350 07/17/14



Page														
POLE LOCATION TYPE SIG. LUM. MOUNTING PHASE MOUNTING PHASE PPB SIRRET NAME SIGN WORDING NOTES LUMINAIRE STATION OFFSET	POLE AND EQUIPMENT SCHEDULE													
COCATION Type SIG. LUM. MOUNTING PHASE MOUNTING PHASE PPB SIRCE NAME STATION OFFSET	501.5	STANDARD			VEHICLE :	SIGNAL	PEDESTRIAN SIGNAL							
A 26-4-70 (EXISTING) 45' 12' MAS 5 SV-1-T 2P 8P Serramonte Blvd. (EXISTING) RETROIT LUMINARE INSTALL OPTICOM DETECTOR INSTALL OPTICOM DETECTOR 108W LED B 1-B (EXISTING) 30' MAS 4 SV-1-T 4P 4P Hillside Blvd. (EXISTING) INSTALL OPTICOM DETECTOR REMOVE (E) SIGN C 18-2-70 (EXISTING) 30' TV-2-T 1,2 SP-1-T 4P Hillside Blvd. (EXISTING) INSTALL OPTICOM DETECTOR D 1-B (EXISTING) TV-2-T 1,2 SP-1-T 2P 4P Serramonte Blvd. (EXISTING) INSTALL OPTICOM DETECTOR E 19-4-100 (NEW) 30' 15' MAS 6 SV-1-T 6P 4P Serramonte Blvd. INSTALL OPTICOM DETECTOR 108W LED F 1-B (NEW) TV-1-T 4 SP-1-T 4P 6P Serramonte Blvd. INSTALL OPTICOM DETECTOR 108W LED G 1-B (NEW) TV-1-T 8 SP-1-T 4P 6P RETROIT LUMINARE REMOVE (B) SIGNAL REMOVE (B) SIGNAL REMOVE (B) SIGNAL REMOVE (B) SIGNAL REMOVE (B) S		TYPE			MOUNTING	PHASE	MOUNTING	PHASE	PPB		NOTES	LUMINAIRE	STATION	OFFSET
B	A		45'	12'	MAS	5	SP-1-T	2P	<u>8₽</u>		RETROFIT LUMINAIRE	108W LED		
(EXISTING) 30	B				TV-2-T	4,8	SP-1-T	8P	<u>2P</u> ⊳		TURN ON RED)			
(EXISTING) IV-2-1 1,2 SP-1-1 2P TD (EXISTING) IV-2-1 IV-2 IV-2 IV-2 (EXISTING) IV-2-1 IV-2 IV-2 (EXISTING) IV-1-1 IV-2 IV-2 (EXISTING) IV-1-1 IV-2 IV-2 (EXISTING) IV-1-1 IV-2 IV-2 (EXISTING) IV-2-1 IV-2 IV-2 (EXISTING) IV-2-1 IV-2 (EXISTING) IV-2-1 IV-2 (EXISTING) IV-2-1 IV-2 (EXISTING) IV-2 (EXISTING) IV-2-1 (EXISTING) IV-2 (EXISTING) I	©		30'				SP-1-T	4P	<u>4P</u> ⊳		INSTALL OPTICOM DETECTOR			
(E) 194-100 (NEW) 30' 15' MAS 6 SV-1-T 6P 4P Serramonte Blvd. INSTALL VIDEO CAMERA INSTALL OPTICOM DETECTOR 108W LED (F) 1-B (NEW) TV-1-T 4 SP-1-T 4P 6P Serramonte Blvd. INSTALL VIDEO CAMERA INSTALL OPTICOM DETECTOR 108W LED (G) 1-B (NEW) TV-1-T 4 SP-1-T 4P 6P Serramonte Blvd. (E) R3-4 (NO U-TURN) (E) R3-4 (NO U-TURN) (H) 1B (NEW) SV-1-T 8 SP-1-T 8P SP-1-T 8P SP-1-T 8P SP-1-T 8P SP-1-T 8P SP-1-T 8P SP-1-T 108W LED 108W LED (D) 15 (EXISTING) SV-2-T 5,6 SP-1-T 6P SP-1-T 8P SP-1-T 8P SP-1-T 108W LED 108W LED	(D)				TV-2-T	1,2	SP-1-T	2P	<u>4P</u> ⊳					
(NEW) IV-1-1 4 SP-1-1 4P SID (E) R3-4 (NO U-TURN) (E		30'	15'	MAS	6	SP-1-T	6P	4 P	Serramonte Blvd.	INSTALL VIDEO CAMERA	108W LED		
(E) R3-4 (NO U-1URN)	F				TV-1-T	4	SP-1-T	4P	<u>6P</u> ⊳					
(NEW) SV-1-1 8 SP-1-T 8P ✓ TURN ON RED) TURN ON RED 15 SV-2-T 5,6 SP-1-T 6P 8P REMOVE Ø8 SIGNAL RETROFIT LUMINAIRE REMOVE (E) SIGN RED REMOVE (E) SIGN R	G				TV-1-T	8					(E) R3-4 (NO U-TURN)			
(1) 15 SV-2-T 5,6 SP-1-T 6P 8P RETROFIT LUMINAIRE REMOVE (E) SIGN 108W LED RETROFIT LUMINAIRE REMOVE (E) SIGN 108W LED 15 REMOVE (E) SIGN 108W LED 15 REMOVE (E) SIGN 108W LED 15 REMOVE (E) SIGN 15 REMOVE (E) SIGN 108W LED 15 REMOVE (E) SIGN 108W LED 15 REMOVE (E) SIGN 15 R	Н				SV-1-T	8	SP-1-T	8P	< <u>6P</u>					
					SV-2-T	5,6	SP-1-T	6P	<u>8P</u> ⊳		RETROFIT LUMINAIRE	108W LED		
	<u></u>										RETROFIT LUMINAIRE	108W LED		

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AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	<u>{5</u>	€	\triangle	<u></u>	<u></u>	19	1	13	13		
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	Ped Neutral	2	2	1	1	1	1		1	1	1	1				
	PEU	3	3													
	Spares	6	6	3	3	3	3		3	3	3	3				
	Total # 14	43	43	30	26	21	21	0	12	25	23	14	0	0		
	STREET LIGHTS	2	2	2			2			2	2	2				<u> </u>
#8	Intern. Illuminated Street Name Sign (120V) (IISNS)	2	2	2						2	2	2				
#0	Signal Neutral	2	2	1	1	1	1	1	1	1	1	1				
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07/17/14

Inc. 3rd Floor))522–2599

CSG Consultants
1700 South Amphlett Boulevard, 31
San Mateo, CA 94402
Phone (650)522-2500 Fax (650)5

OF COLMA CAMINO REAL 1, CA. 94014

TOWN 1198 EL COLMA,

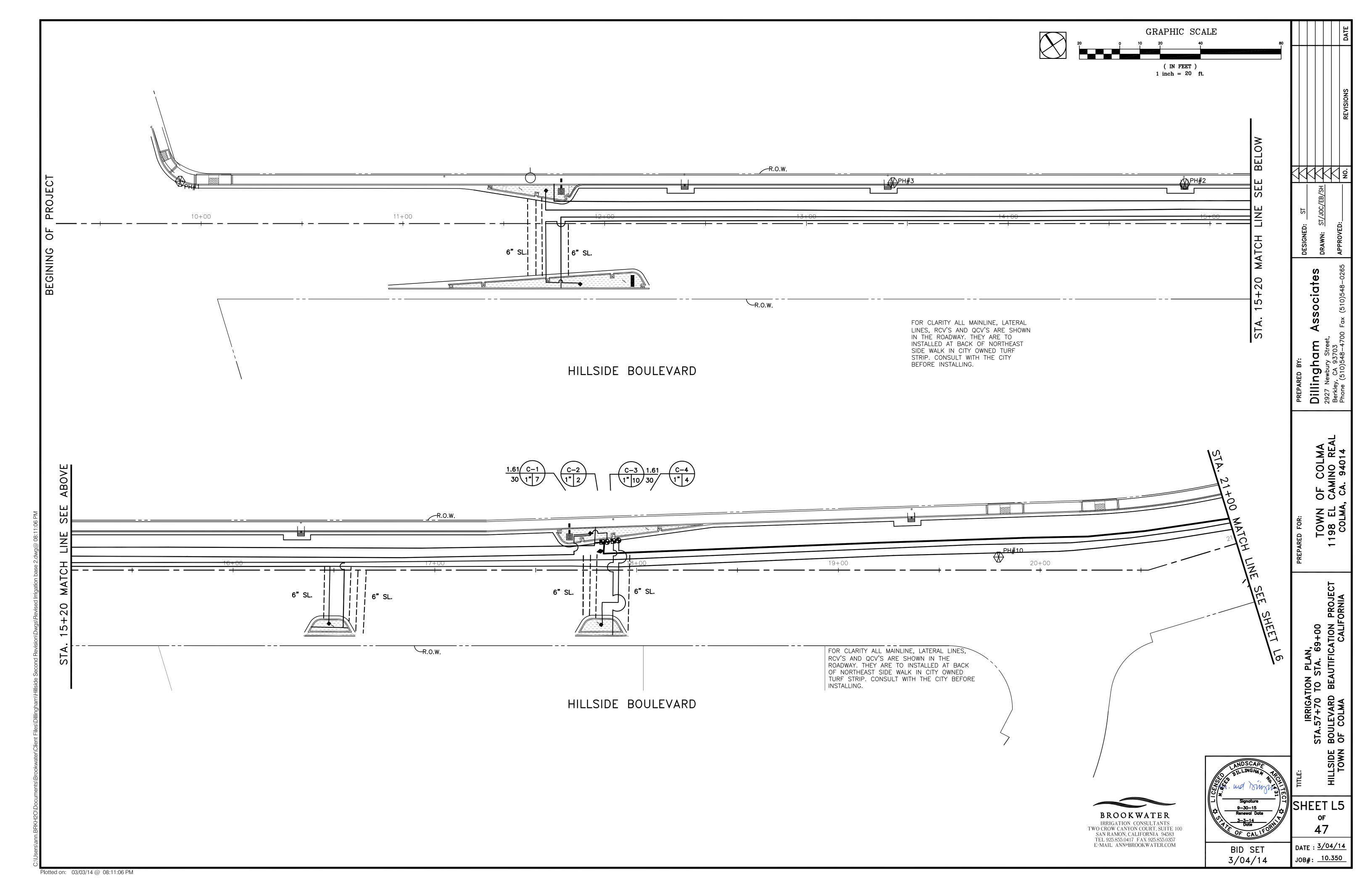
TRAFFIC SIGNAL MODIFICATION PLAN, SERRAMONTE BLVD./ HILLSIDE BLVD. HILLSIDE BOULEVARD IMPROVEMENT PROJECT TOWN OF COLMA

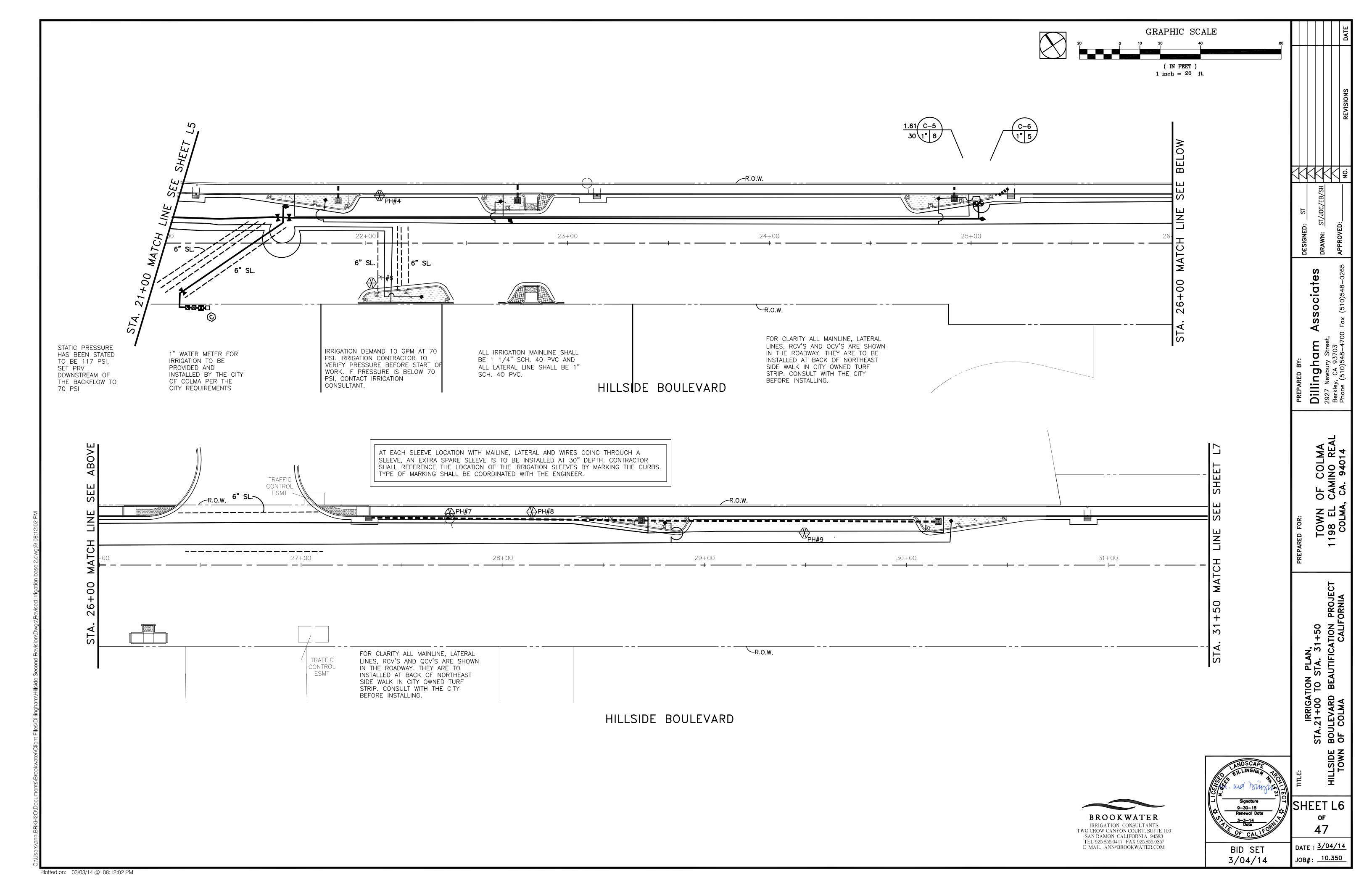
SHEET 38

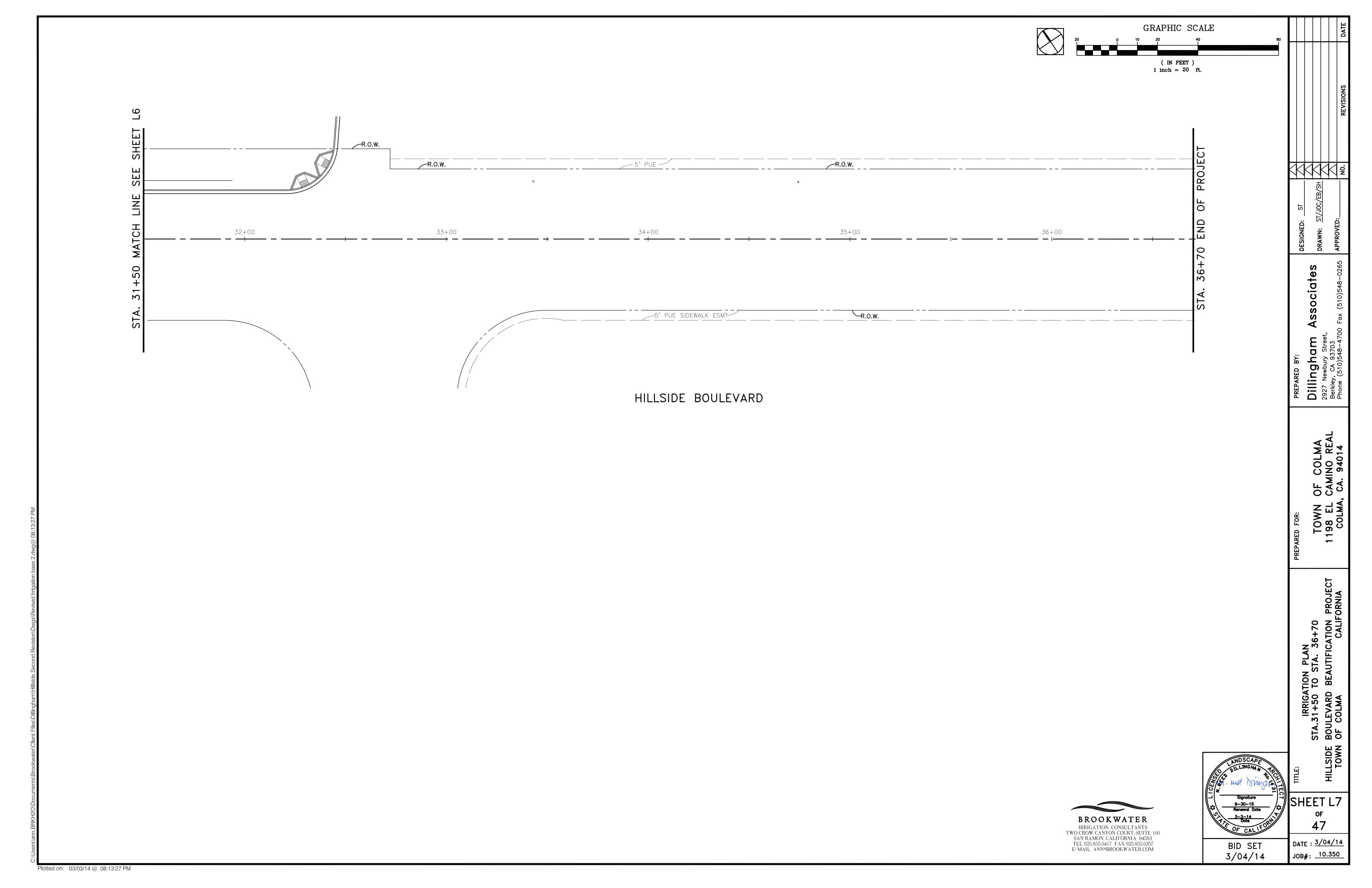
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- 1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- 4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 5. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- 6. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- 7. ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.
- 8. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- 9. REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
- 10. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- 11. INSTALL THREE (3) SPARE CONTROL WIRES ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- 12. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS.
- 13. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE MINIMUM 12"APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
- 14. LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- 15. IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10'OF ELEVATION CHANGE.
- 16. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL IRRIGATION SUBSURFACE FOR OPTIMUM PERFORMANCE. ADJUST THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- 17. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.
- 18. LOCATE BUBBLERS ON UPHILL SIDE OF TREES. TREE BUBBLERS ARE FOR ESTABLISHMENT AND DROUGHT CONDITIONS. THEY ARE TO BE TURNED OFF AFTER TREES ARE ESTABLISHED AND TURNED ON DURING DROUGHT CONDITIONS.
- 19. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- 20. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. CONTRACTOR TO REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- 21. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 22. IRRIGATION DEMAND: 13 GPM AT 64 PSI.
- 23. OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- 24. IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- 25. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION

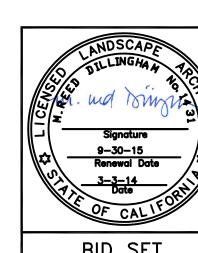
DRIPLINE NOTES:

- 1. PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- 2. INSTALL DRIPLINE A MAXIMUM OF 18" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
- 3. PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 390'OF TOTAL DRIPLINE PER ZONE.
- 4. PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
- 5. INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- 6. ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE—THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- 7. PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
- 0-8 GPM -3/4" • 8.1-15 GPM - 1"
- 15.1-25 GPM -1 1/4"
- 8. FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- 9. THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- 10. IN TURF OR NOW-MOW GRASS AREAS, A TEMPORARY OVERHEAD SPRAY SYSTEM WILL NEED TO BE PROVIDED UNTIL THE TURF SEED OR SOD IS ESTABLISHED. OVERHEAD WATERING CAN BE DISCONTINUED WHEN EDGES OF THE SOD CANNOT BE PULLED UP. RUN THE DRIPLINE

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	PSI GPM RADIUS SPACINO									
	1402	RAIN BIRD BUBBLER FOR TREES-2 PER TREE	30 1 GPM PER TREE									
	TL050MFV-1 (NOT SHOWN)	NETAFIM AUTOMATIC FLUSH VALVE										
•	XCZ-LF-100-PRF/WLT-1"-T PRM30	RAIN BIRD REMOTE CONTROL VALVE LOW FLOW CONTROL ZONE KIT WITH PR FILTER (DISCARD THE COMPRESSION FITTING), KBI BALL VALVE										
•	100-PEB-PRS-DIAL/WLT-1"-T	RAIN BIRD REMOTE CONTROL VALVE WITH PRESSUR	E REGULATION/KBI BALL VALVE									
	600L-1"	WILKINS PRESSURE REGULATOR										
	3300-100	SUPERIOR MASTER VALVE-NORMALLY OPEN-INCLUDED WITH CONTROLLER										
\boxtimes	IFS100C-1"	CREATIVE SENSOR TECHNOLOGY FLOW SENSOR-INCLUDED WITH CONTROLLER										
M	T-113IRR	NIBCO GATE VALVE (LINE SIZE)										
•	33DNP	RAIN BIRD QUICK COUPLING VALVE										
	825YA-1"-SBBC-15AL	FEBCO REDUCED PRESSURE BACKFLOW PREVENTOR	-MOUNT IN STRONG BOX ENCLOSURE									
©	ICA6-RB3-8/ETMA-LX/1FS100C/ 3300-100/SP/MP16	RAIN BIRD CONTROLLER WITH RAIN BIRD ET MANAGER CARTRIDGE CONTACT IMPERIAL TECHINCAL SERVICES AT 209-404-1746 FOR PRE CONSTRUCTION FOR MEETING AND FOR POST INSTALLATION CERTIFICATION. MASTER VALVE SHALL BE PROGRAMMED SO THAT MASTER VALVE WILL BE CLOSED DURING NON-OPERATION OF THE IRRIGATION SYSTEM. MAINLINE WILL NOT BE UNDER CONSTANT PRESSURE DURING NON-OPERATION.										
	LIMR	RAIN BIRD LANDSCAPE IRRIGATION AND MAINTENANCE REMOTE										
ŏ	WR2-RS	RAIN BIRD WIRELESS RAIN SENSOR										
C-1		CONTROLLER AND STATION NUMBER										
1" 12)-		APPROXIMATE GALLONS PER MINUTE										
		REMOTE CONTROL VALVE SIZE										
		CONTROLLER AND STATION NUMBER										
C-1 7	1 -	PRECIPTATION RATE										
1" 12/3	0	APPROXIMATE PRESSURE										
TL		APPROXIMATE GALLONS PER MINUTE										
		REMOTE CONTROL VALVE SIZE										
		MAIN LINE: 1 1/2" 1120—SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.										
		LATERAL LINE: 1120—SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.										
		DRIPLINE: NETAFIM TECHLINE TLDCV-6-12-250 F SPACING X 12" ROW SPACING6 GPH 30 PSI. FO TF-10612-300CV. THIS MODEL NUMBER COMES W TECHLINE CV DRIPPERLINE FITTINGS. 2" COVER.	OR TECH FILTER THE MODEL NUMBER I									
	========	SLEEVE (SL): 1120-200 PSI PVC PLASTIC PIPE. 3	30" COVER.									





BID SET

DATE: $\frac{3}{04}/14$ JOB#: 10.350 3/04/14

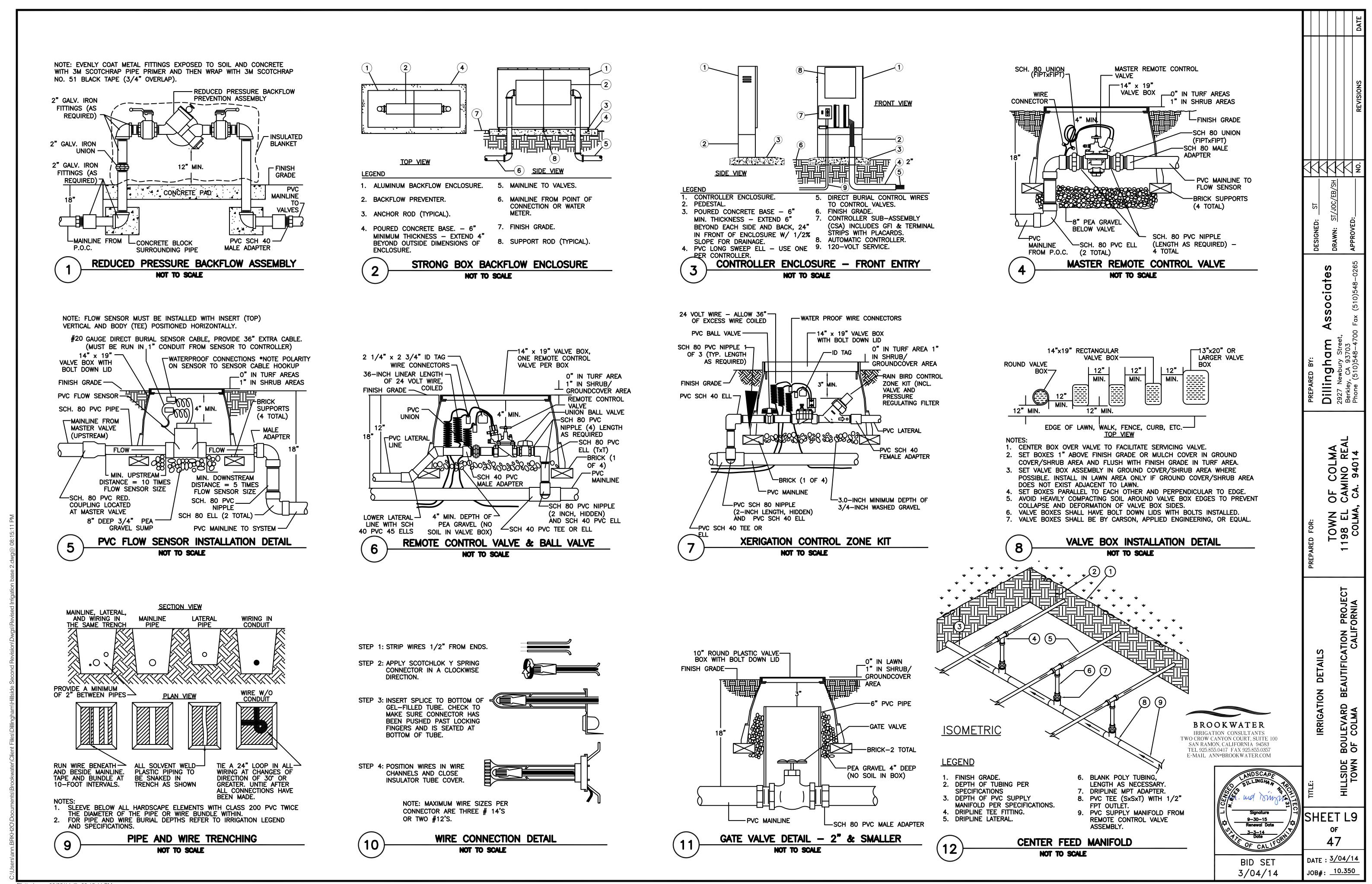
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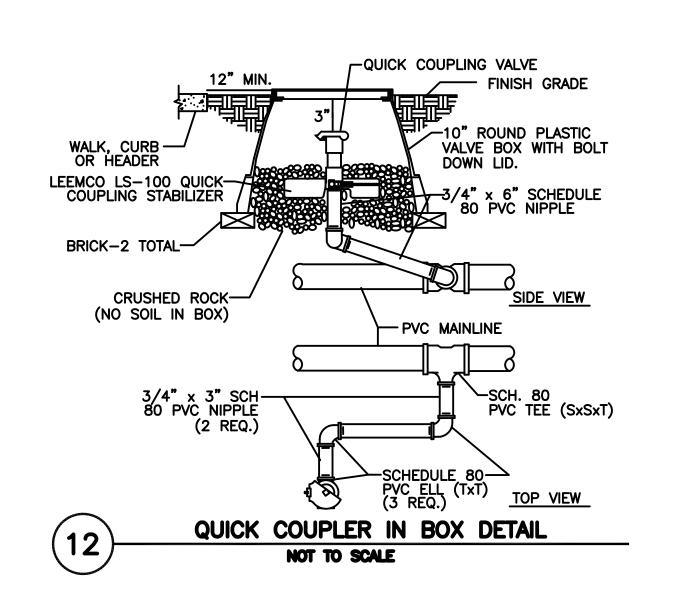
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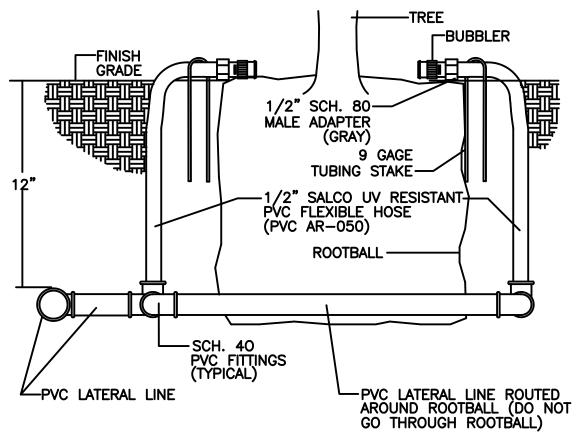
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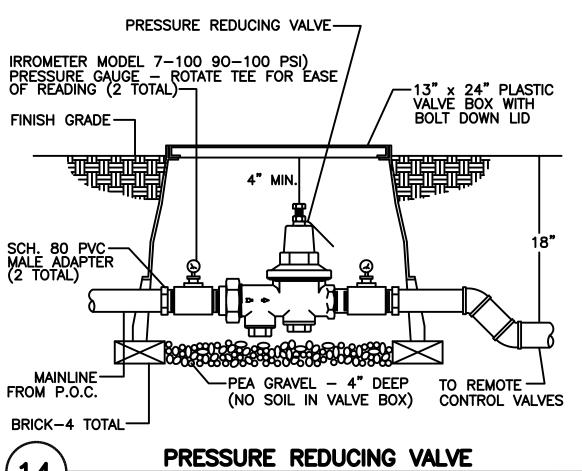


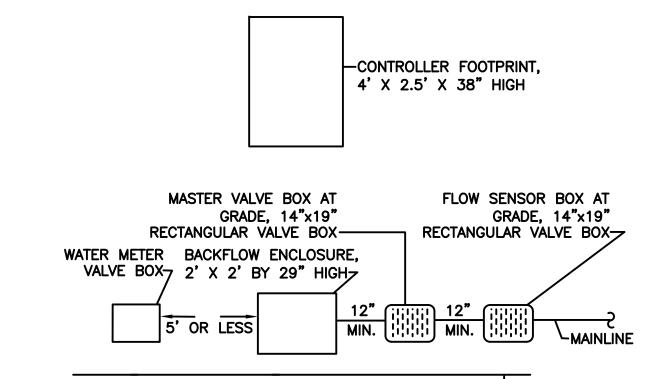


TREE BUBBLER DETAIL

NOT TO SCALE

13





EDGE OF LAWN, WALK, FENCE, CURB, ETC.—

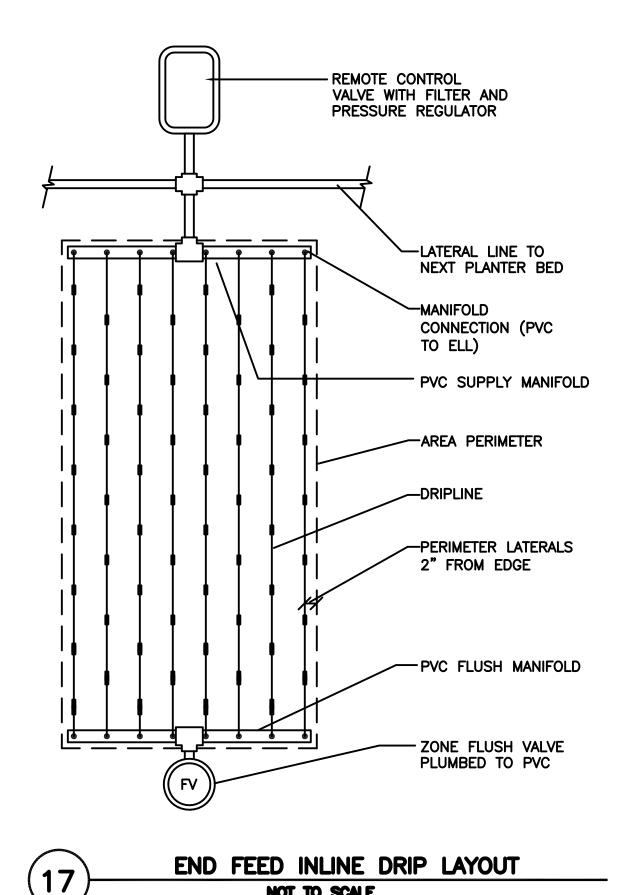
<u>TOP VIEW</u>

ESTIMATED POC COMPONENT FOOTPRINT

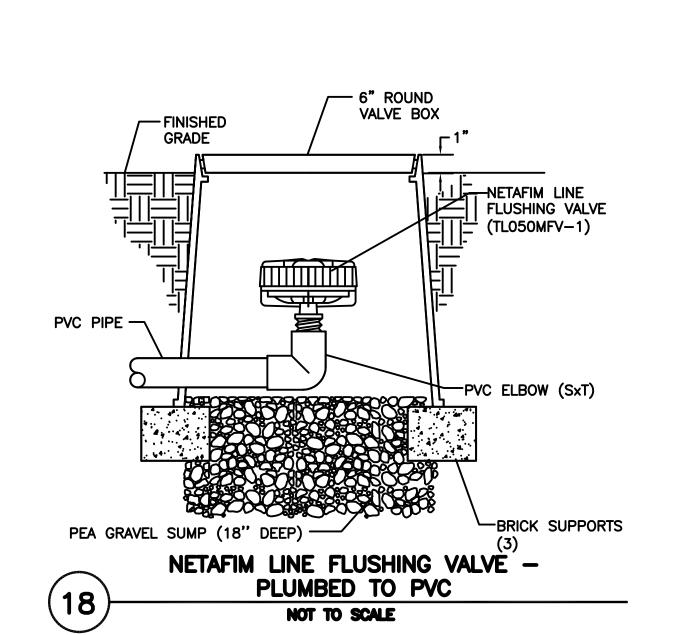
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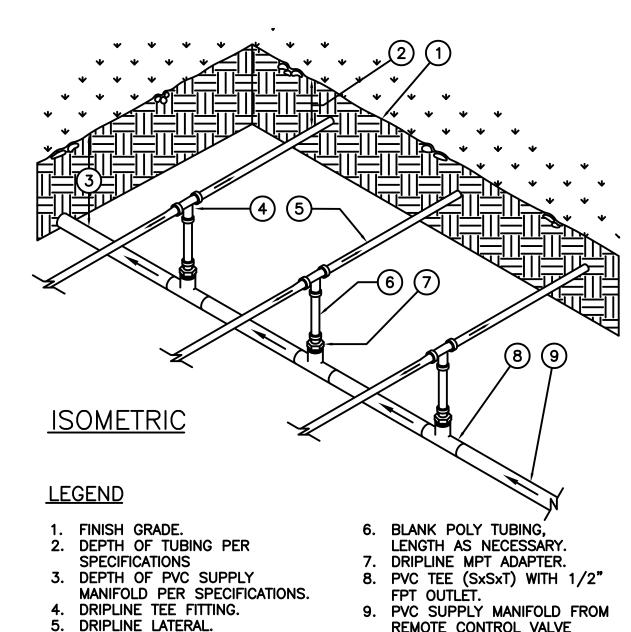
-PVC PIPE TO NEXT DRIPLINE SECTION (IF REQUIRED) ZONE FLUSH VALVE PLUMBED TO PVC (TYP) -MANIFOLD CONNECTION (PVC TO ELL) -PVC CROSS OR ELL ---PVC EXHAUST HEADER -PVC SUPPLY HEADER - MANIFOLD CONNECTION (PVC TO TEE) -REMOTE CONTROL VALVE WITH FILTER AND PRESSURE REGULATOR - AREA PERIMETER -DRIPLINE LATERAL -PERIMETER LATERALS 2" FROM EDGE -PVC TEE CENTER FEED INLINE DRIP LAYOUT

NOT TO SCALE



NOT TO SCALE







TWO CROW CANYON COURT, SUITE 100 SAN RAMON, CALIFORNIA 94583 TEL 925.855.0417 FAX 925.855.0357 E-MAIL ANN®BROOKWATER.COM

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Dillingham
2927 Newbury Street,
Berkley, CA 93703 OF COLMA CAMINO REAL CA. 94014 TOWN 198 EL COLMA

BEAUTIFICATION PROJECT CALIFORNIA

HILLSIDE TOWN

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DETAILS

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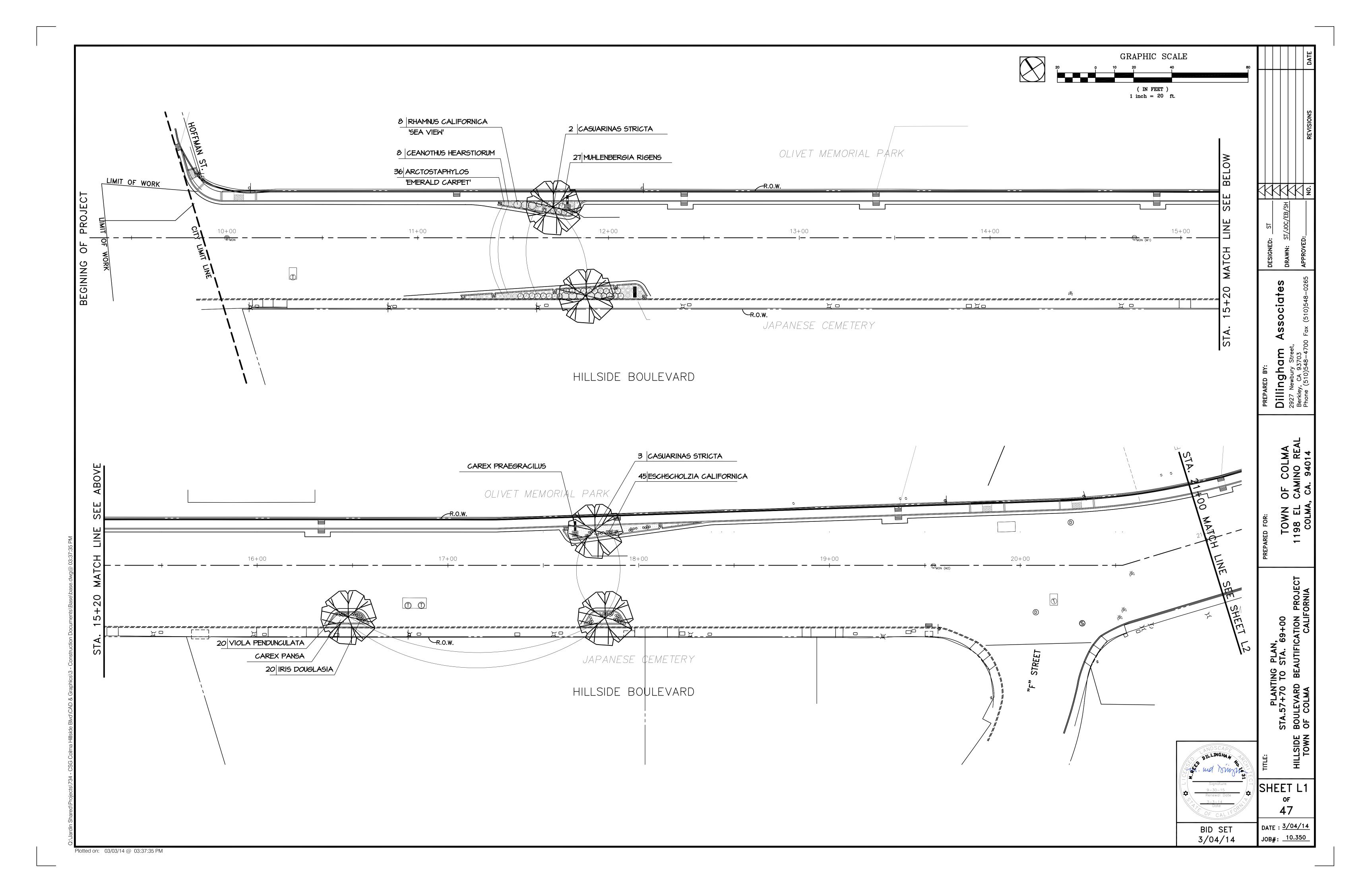
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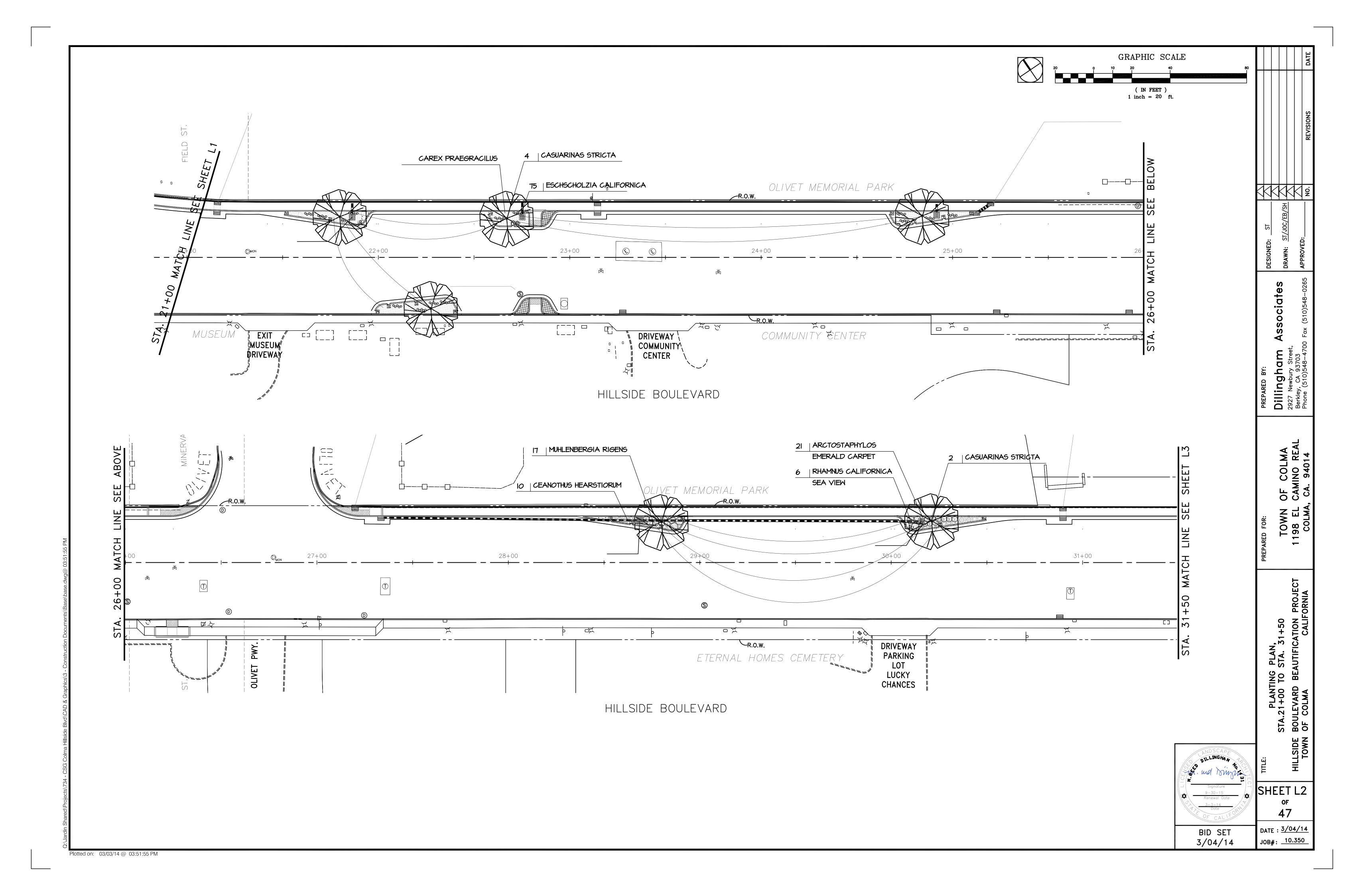
5. DRIPLINE LATERAL.

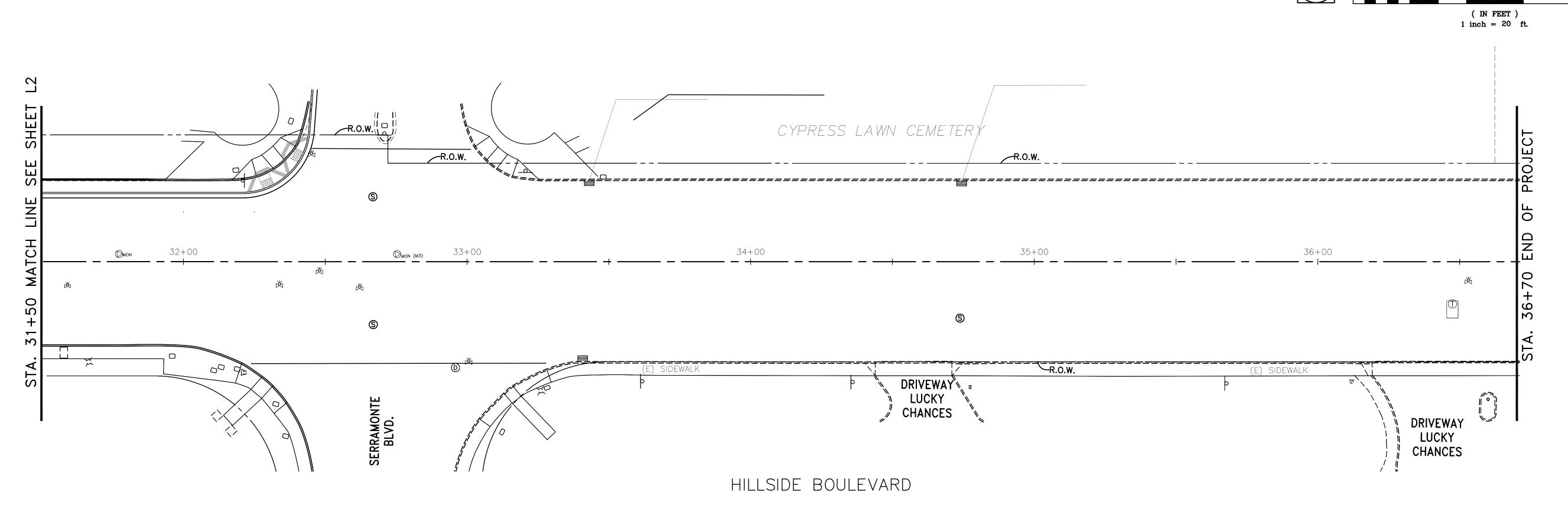
19

9. PVC SUPPLY MANIFOLD FROM REMOTE CONTROL VALVE ASSEMBLY.

CENTER FEED MANIFOLD NOT TO SCALE

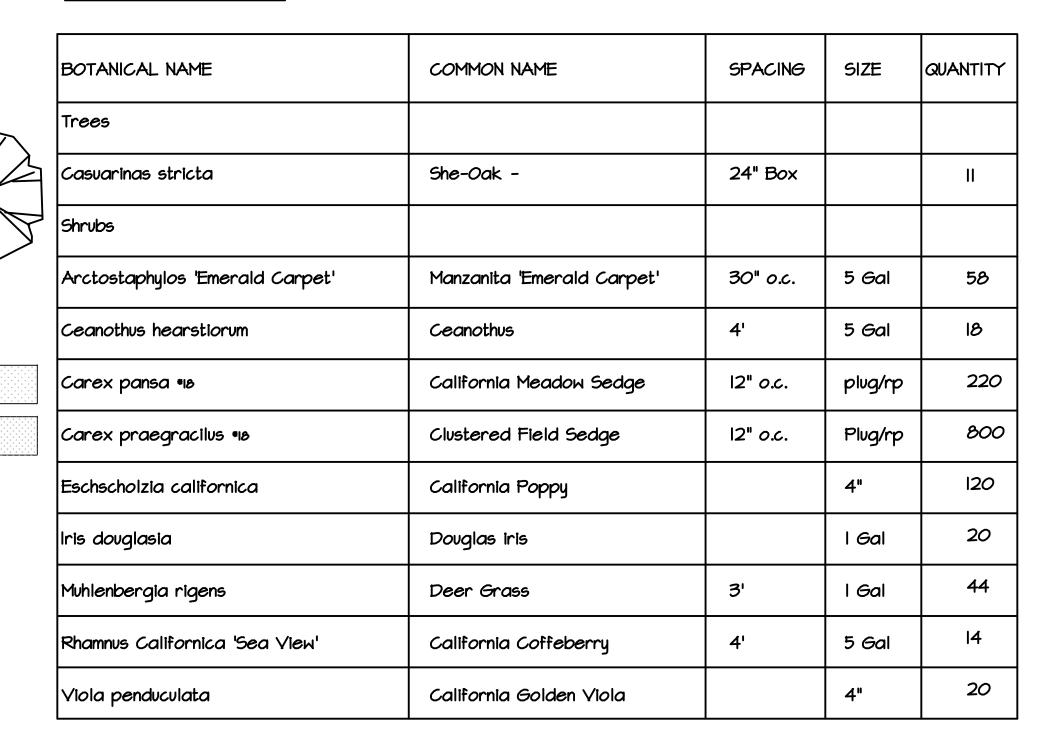






PLANT LEGENDS

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PLANTING NOTES

- I. ALL LANDSCAPE AND MAINTENANCE OF SAME SHALL CONFORM TO TOWN OF COLMA LANDSCAPE & IRRIGATION GUIDELINES, AND ANY OTHER APPLICABLE CODES, ORDINANCES AND LAWS.
- 2. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT.
- 3. VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO COMMENCING WORK.
- 4. DIMENSIONS FOR PLACEMENT AND LAYOUT OF PLANT MATERIALS SHOWN ON DRAWINGS ARE APPROXIMATE. LAYOUT OF PLANT MATERIALS SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF PLANT MATERIALS IN CONFORMANCE WITH DRAWINGS AND SPECIFICATIONS. IF, HOWEVER, IN-THE-FIELD CONFLICTS ARISE BETWEEN PLANT AND UTILITY LOCATIONS, CONTRACTOR SHALL, WITH THE APPROVAL OF OWNER'S REPRESENTATIVE, MAKE THE NECESSARY ADJUSTMENTS TO PLANT PLACEMENT IN ORDER TO ACHIEVE OPTIMUM DESIGN.
- 5. CONTRACTOR SHALL ORDER PLANT MATERIALS WITHIN TEN DAYS OF THE NOTICE TO PROCEED AND SUBMIT PROOF OF PURCHASE TO ENSURE ADEQUATE QUANTITIES AND SIZES OF PLANT MATERIAL AVAILABLE, IN CONFORMANCE WITH DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IN INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- 6. CONTRACTOR SHALL CONFIRM SOURCE OF ALL PLANT MATERIAL. ALL PLANT MATERIAL OF SAME SPECIES SHALL BE FROM A SINGLE SOURCE.
- 7. ALL PLANTS TO BE OF THE FINEST QUALITITY AND FREE OF DISEASE OR DAMAGE. PLANT MATERIALS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. IF NOT REVIEWED, OWNER'S REPRESENTATIVE MAY MAKE CHANGES OR REJECT MATERIALS AT NO ADDITIONAL COSTS TO OWNER.
- 8. ALL TREES SHALL BE STAKED/GUYED AS SHOWN ON DETAILS OR AS MAY BE REQUIRED TO MAINTAIN TREES SECURELY.
- 9. TAKE CARE TO PROTECT EXISTING PLANTS TO REMAIN. PROVIDE FENCES OR OTHER BARRIERS AS NECESSARY AT THE DRIP LINE OR AROUND TREE TRUNKS TO PROTECT EXISTING PLANTS FROM DAMAGE DURING CONSTRUCTION. PROVIDE ADEQUATE IRRIGATION DURING CONSTRUCTION. REPLACE ANY TREE DAMAGED DURING CONSTRUCTION WITH PLANTS OF EQUAL SIZE AND VALUE AT NO ADDITIONAL COST TO THE OWNER.
- IO. AVOID UNNECESSARY ROOT DISTURBANCE, COMPACTION OF SOILS WITHIN DRIP LINE, OR LIMB BREAKAGE. DO NOT STORE MATERIAL OR EQUIPMENT OR DISPOSE OF ANY MATERIAL OTHER THAN CLEAN WATER WITHIN DRIP LINE.

II. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANT ESTABLISHMENT OF THE ENTIRE SITE FOR THE DURATION OF THE CONTRACT AND PLANT ESTABLISHMENT PERIOD, AS INDICATED IN SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ALL WATERING, MOWING, EDGING, TRIMMING, PRUNING, WEEDING, FERTILIZING, AND KEEPING ALL PLANT MATERIAL (BOTH EXISTING AND NEW) IN HEALTHY GROWING CONDITIONS AND NEAT AND ATTRACTIVE IN APPEARANCE, REPLACE ALL DEAD AND/OR DAMAGED PLANT MATERIAL ON A WEEKLY BASIS.

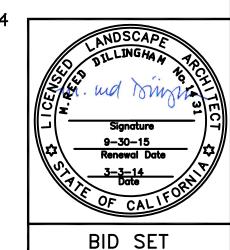
GRAPHIC SCALE

- 12. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL FROM THE OWNER'S PROPERTY OF ALL WASTE MATERIAL GENERATED FROM THE PLANTING OPERATIONS.
- 13. IN ALL AREAS WHERE ASPHALT OR CONCRETE PAVING IS TO BE REMOVED AND REPLACED WITH NEW PLANTING, REMOVE ALL EXISTING AGGREGATE BASE, GRAVEL, ETC. LEAVE ONLY NATIVE SOIL OR EXISTING CLEAN FILL.
- 14. SEE SPECIFICATIONS AND DETAILS FOR SOIL AMENDMENTS, PLANTING AND MAINTENANCE INSTRUCTIONS.
- 15. PERFORM FINE GRADING IN PLANTING AREA PER CIVIL DRAWING.
- 16 PROVIDE IMPORT PLANTING SOIL FOR ALL BIO RETENTION PLANTING AREA PER SPECIFICATION.
- 17. INSTALL MINIMUM 3" DEEP MULCH WITH MULCH PROTECTOR AT SHRUB AND TREE PLANTING AREA AND MINIMUM 2" DEEP MULCH WITH MULCH PROTECTOR AT GROUNDCOVER AREA.
- 18. KEEP PROPOSED TREES MINMIMUM 18" CLEARANCE FROM ENERGIZED WIRE (150 VOLTS OR MORE) PER CPUC GENERAL ORDER 450.
- 19. SPECIFIED PLANT MATERIAL MAY REQUIRE CONTRACT GROWTH. ALLOW THREE (3)
 MONTH MINIMUM FOR CONTRACT GROWTH PERIOD IN NURSERY. SEE BELOW FOR
 PREAPPROVED NURSERIES

WATERSHED NURSERY, RICHMOND CALIFORNIA, 510-234-2222

OAKTOWN NURSERY, BERKELEY, CALIFORNIA, 510-387-9744

CENTRAL COAST WILD, SANTA CRUZ, 831-459-0655



3/04/14

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TOWN 198 EL COLMA

> PROJECT ORNIA

& LEGENDS . 36+70

NOTES & TO STA. 36

NTING PLAN STA.31+50 BOULEVARD OF COLMA

SHEET L3

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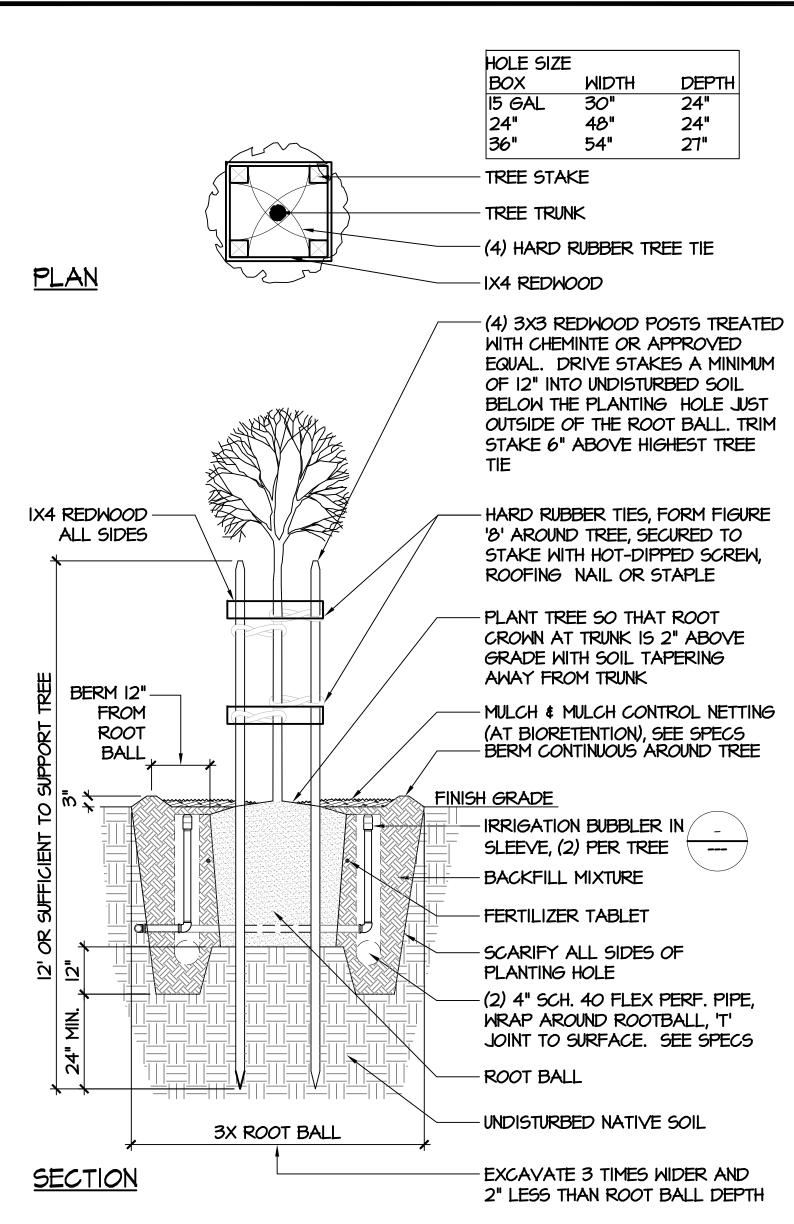
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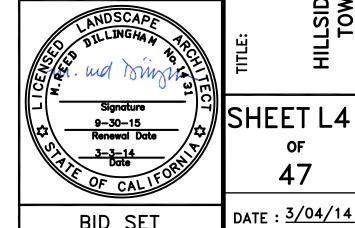
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SET ROOTBALL I" ABOVE FINISH GRADE TO ALLOW FOR SETTLING MULCH BED & MULCH CONTROL NETTING (AT BIORETENTION), SEE SPECS FINISH GRADE BACKFILL MIXTURE ROOT BALL UNDISTURBED SUBGRADE 24" (5 GAL.) 18" (1 GAL.)

SHRUB PLANTING

BID SET JOB#: <u>10.350</u> 3/04/14



DRAWN:

ciates

PREPARED BY:

Dillingham

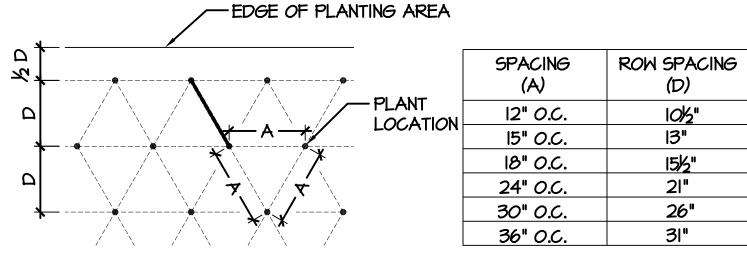
2927 Newbury Street,
Berkley, CA 93703
Phone (510)548–470

OF COLMA CAMINO REAL , CA. 94014

DETAILS

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TRIANGULAR SPACING DIAGRAM

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