

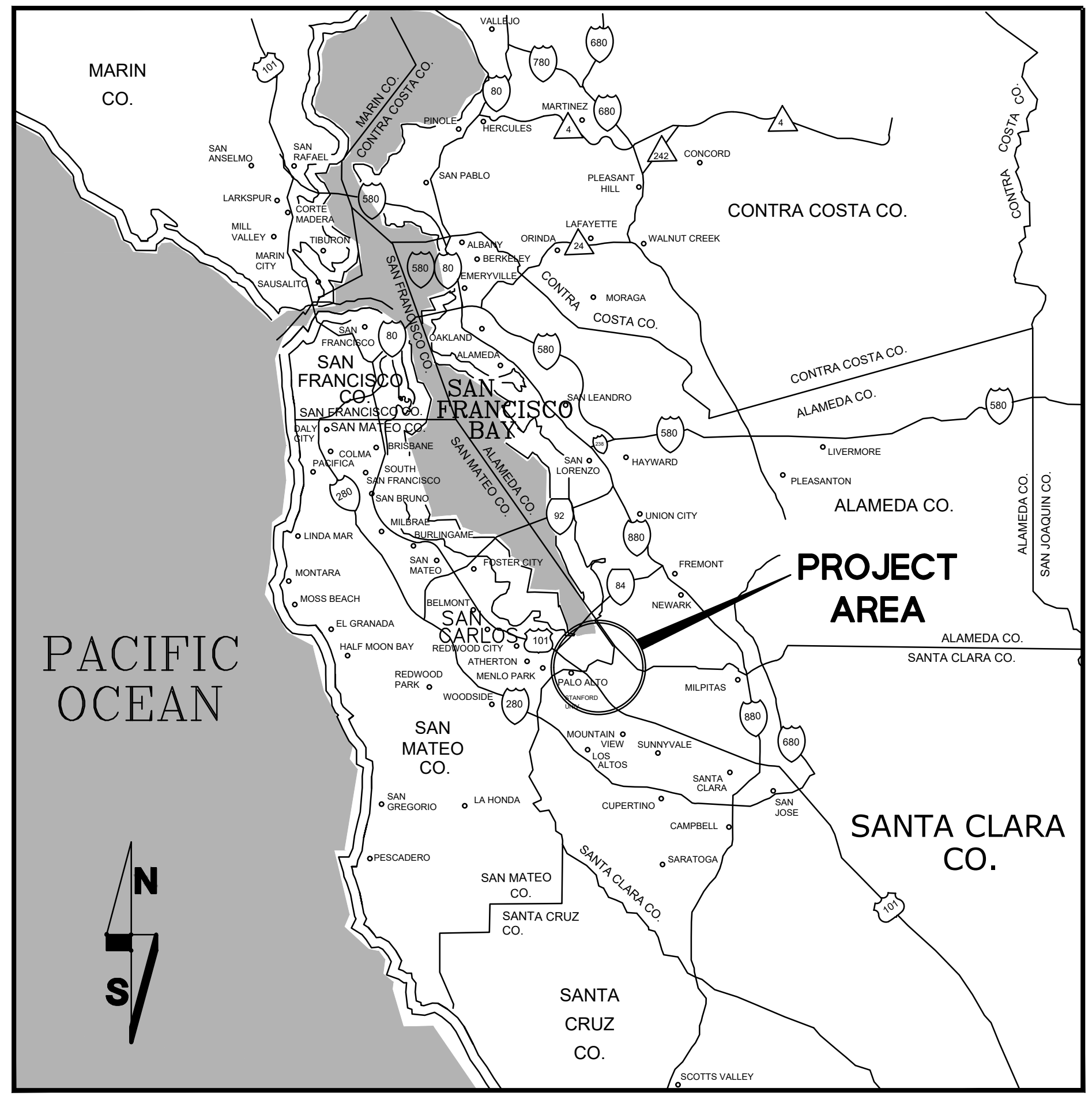
PLANS FOR ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO

LEGEND

⊙ MON.	MONUMENT		EXISTING TREE
⊙	SANITARY SEWER MANHOLE		
⊙	STORM DRAIN MANHOLE		
⊙	TELEPHONE MANHOLE		
WM	WATER METER		
WV	WATER VALVE		
GV	GAS VALVE		
⊙	FIRE HYDRANT		
DI	DRAINAGE INLET		
⊙	JOINT POLE		
⊙	STREET LIGHT		
⊙	ROADSIDE SIGN		
⊙	DETAIL REFERENCE NUMBER		
⊙	PAGE REFERENCE NUMBER		
(BW 89.83±)	CONFORM TO EXISTING GRADE AS INDICATED		
(5.3%±)	EXISTING STREET OR SIDEWALK SLOPE		
			PROPOSED STORM DRAIN
			PROPERTY LINE
			RIGHT OF WAY
			EXISTING CABLE TELEVISION LINE
			EXISTING ELECTRICAL LINE
			EXISTING HIGH VOLTAGE ELECTRIC LINE
			EXISTING GAS LINE
			EXISTING SANITARY SEWER LINE
			EXISTING STORM DRAIN LINE
			EXISTING TELEPHONE LINE
			EXISTING WATER LINE
			BASIS OF BEARINGS / TIE TO CONTROL LINE
			PROPOSED STORM DRAIN

ABBREVIATIONS

AB	AGGREGATE BASE	NB	NORTHBOUND
AC	ASPHALT CONCRETE	NE	NORTHEAST
AVE	AVENUE	NO	NUMBER
BC	BEGINNING OF CURVE	NTS	NOT TO SCALE
BM	BENCH MARK	NW	NORTHWEST
BOC	BOTTOM OF CURB	OG	ORIGINAL GROUND
BOT	BOTTOM	OH	OVERHEAD
BW	BACK OF WALK	O.C.	ON CENTER
C	CENTERLINE	PB	PULL BOX
C-C	CENTER TO CENTER	PCC	PORTLAND CEMENT CONCRETE
CATV	CABLE TELEVISION BOX	PGE	PACIFIC GAS & ELECTRIC
CB	CATCH BASIN	PP	POWER POLE
CF	CUBIC FEET	PPB	PEDESTRIAN PUSH BUTTON
CL	CLEAR	PT	POINT
CLR	CENTERLINE	P/L	PROPERTY LINE
COMP	COMPACTION	R	RADIUS
CONC	CONCRETE	R.C.	RELATIVE COMPACTION
CP	CONTROL POINT	ROW	RIGHT OF WAY
CR	CURB RAMP	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	RD	ROAD
DI	DIAMETER	RT	RIGHT
DIA	DIAMETER	S	SOUTH
DIM	DIMENSIONS	SB	SOUTHBOUND
DR	DRIVE	SD	STORM DRAIN
DWS	DETECTABLE WARNING SURFACE	SDCB	STORM DRAIN CATCH BASIN
DWY	DRIVEWAY	SDMH	STORM DRAIN MANHOLE
E	EAST	SE	SOUTHEAST
EX	EXISTING	SF	SQUARE FEET
EB	ELECTRICAL BOX	SLB	STREET LIGHT BOX
EC	END OF CURVE	SNS	STREET NAME SIGN
EG	EXISTING GRADE	SPEC	SPECIFICATION
ELEC	ELECTRIC	SS	SANITARY SEWER
EP	EDGE OF PAVEMENT	SSB	SANITARY SEWER BOX
ETW	EDGE OF TRAVELED WAY	SSCO	SANITARY SEWER CLEANOUT
FDR	FULL DEPTH RECLAMATION	SSMH	SANITARY SEWER MANHOLE
FG	FINISHED GRADE	STA/STA.	STATION
FH	FIRE HYDRANT	ST	STREET
FL	FLOWLINE	SW	SIDEWALK
FND	FOUND	SY	SQUARE YARD
FNL	FENCE LINE	T	TELEPHONE
FT	FEET	TB	TELECOMMUNICATIONS BOX
G	GAS	TC	TOP OF CURB
GB	GRADE BREAK	TG	TOP OF GRATE
GM	GAS METER	TMH	TELECOMMUNICATIONS MANHOLE
GV	GAS VALVE	TOT	TOTAL
HMA	HOT MIX ASPHALT	TYP	TYPICAL
HP	HIGH POINT	UB	UTILITY BOX (UNKNOWN)
INV	INVERT ELEVATION	UNK	UNKNOWN
JP	JOINT POLE	VG	VALLEY GUTTER
LF	LINEAR FEET	VGFL	VALLEY GUTTER FLOW LINE
LG	LIP OF GUTTER	VLT	Vault
LN	LANE	W	WEST
LP	LOW POINT	W	WATER
LT	LEFT	W/	WITH
MAX	MAXIMUM	WM	WATER METER BOX
MB	MAIL BOX	WV	WATER VALVE
MH	MANHOLE	VG	VALLEY GUTTER
MIN	MINIMUM	1' T	1' DIAMETER TREE BASE
MISC	MISCELLANEOUS		AT GROUND LEVEL
MOD	MODIFIED		TOP OF CURB
MON	MONUMENT		TYPICAL
N	NORTH		



SHEET NUMBERS AND TITLES

1. TITLE SHEET
2. GENERAL, CONSTRUCTION, AND COORDINATION NOTES
3. TYPICAL CROSS-SECTIONS
4. TYPICAL CROSS-SECTIONS
5. EXISTING CONDITIONS/DEMOLITION PLAN, STA.10+00 TO STA.20+00
6. EXISTING CONDITIONS/DEMOLITION PLAN, STA.20+00 TO STA.30+20
7. IMPROVEMENTS PLAN & PROFILE - STA.10+00 TO STA.14+00
8. IMPROVEMENTS PLAN & PROFILE - STA.14+00 TO STA.20+00
9. IMPROVEMENTS PLAN & PROFILE - STA.20+00 TO STA.25+50
10. IMPROVEMENTS PLAN & PROFILE - STA.25+50 TO STA.30+20
11. SIGNING AND STRIPING PLANS
12. SIGNING AND STRIPING PLANS
13. CONSTRUCTION DETAILS
14. CONSTRUCTION DETAILS
15. CURB EXTENSIONS AND BIORETENTION AREA LAYOUT AND DETAILS
16. CURB EXTENSIONS AND BIORETENTION AREA LAYOUT AND DETAILS
17. CURB EXTENSIONS AND BIORETENTION AREA LAYOUT AND DETAILS
18. CURB EXTENSIONS AND BIORETENTION AREA LAYOUT AND DETAILS
19. BIORETENTION AREA TYPICAL SECTION AND DETAILS
20. IRRIGATION PLAN
21. IRRIGATION PLAN
22. LANDSCAPE DOCUMENTATION
23. PLANTING PLAN
24. PLANTING PLAN
25. PLANTING PLAN
26. LANDSCAPE DETAILS
27. LANDSCAPE DETAILS
28. LANDSCAPE DETAILS
29. CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

APPLICABLE STANDARD PLANS

INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- COUNTY OF SAN MATEO STANDARD DETAILS**
- D-1 DRIVEWAYS WIDTHS AND CURB OPENINGS FOR SINGLE FAMILY RESIDENTIAL DWELLINGS
 - D-2 DRIVEWAY WIDTHS AND CURB OPENINGS FOR COMMERCIAL AND INDUSTRIAL HWY. FRONTAGE
 - D-3 TYPICAL SECTIONS URBAN CURB, GUTTER, AND SIDEWALK
 - D-5 VALLEY GUTTER DETAILS
 - D-6 DRAINAGE UNDER SIDEWALK
 - W-10 STANDARD TRENCH BACKFILL AND BEDDING DETAIL

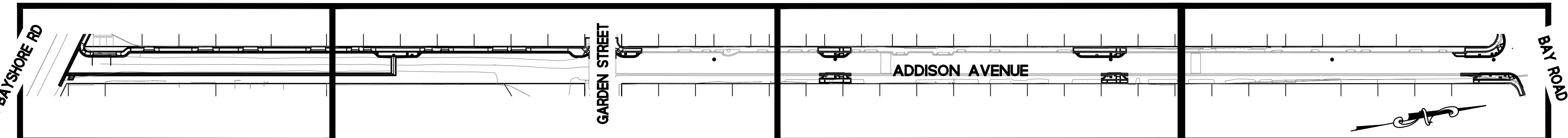
CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (2018)
A88A CURB RAMP DETAILS

SHEETS 5, 7, 11

SHEETS 5, 8, 11

SHEETS 6, 9, 12

SHEETS 6, 10, 12



PROJECT BENCHMARK
CITY OF EAST PALO ALTO BENCH MARK

NAME	NORTHING	EASTING	ELEVATION (NAVD 88)
BM5	1998092.32	6083303.85	16.81

THE HORIZONTAL COORDINATES ARE CALIFORNIA STATE PLANE COORDINATES, ZONE 111, NAD 83(2011). THE ELEVATION WAS PRODUCED USING NATIONAL GEODETIC SURVEY HEIGHT MODERNIZATION POINTS.

DESCRIPTION:
DRIVEN STAINLESS STEEL ROD IN SLEEVE MONUMENT IN GRADE BOX (MARKED SURVEY MONUMENT EPA BM) IN LANDSCAPING AT SOUTH EDGE OF NEWBRIDGE STREET SIDEWALK NEAR INTERSECTION WITH BAY ROAD AND 100' WESTERLY OF BUS STOP.

PREPARED UNDER MY SUPERVISION

Lawrence Lau
LAWRENCE LAU

DATE: 2/14/22
R.C.E. 57397, EXPIRES 12/31/23



I:\DESIGN\19_358-1_Addison St_SRTS Improvements\2021.08.XX_100_Plan\01_TITLE_EPA.dwg © 01:14:20 PM

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1-800-227-2600

UNDERGROUND SERVICE ALERT

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

<p>DESIGNED BY: CC/KS/LL</p> <p>DRAWN BY: CC/JL</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CONFORMED SET</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	1	CONFORMED SET		
NO.	DATE						
1	CONFORMED SET						
<p>PREPARED BY: CSG CONSULTANTS 550 PULGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599</p>							
<p>TITLE SHEET</p> <p>ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT</p> <p>CITY OF EAST PALO ALTO, CALIFORNIA</p>							
<p>SHEET 1 OF 29</p>							
<p>DATE: 2/14/2022 JOB NO.: CIP-ST-26</p>							



I. GENERAL NOTES

- ALL REFERENCES TO "COUNTY" IN THESE PLANS SHALL MEAN THE COUNTY OF SAN MATEO.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF SAN MATEO STANDARD DRAWINGS AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2018, WHICH ARE HEREBY INCORPORATED INTO THESE PLANS.
- THE CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY LAWS AND ORDINANCES, REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, O.S.H.A., AND COMMISSION ON HEALTH AND SAFETY AND WORKER'S COMPENSATION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
- THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND ADEQUACY OF THE DESIGN CONTAINED HEREIN.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE, AND ALL OTHER EXISTING CONDITIONS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, AND HAZARDOUS CONDITIONS.
- ELEVATIONS INDICATED IN THE DRAWINGS ARE BASED ON AVAILABLE INFORMATION DURING PREPARATION OF THE DRAWINGS. ANY SIGNIFICANT DEVIATIONS FROM THE ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE CITY.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING MATERIAL, METHODS OF WORK, AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
- ANY SURFACE UTILITIES, SUCH AS MANHOLES, VALVES, MONUMENTS, DRAIN INLETS, AND UTILITY BOXES SHOWN TO BE WITHIN CONSTRUCTION LIMITS SHALL BE ADJUSTED IN ELEVATION TO MATCH THE FINISHED ROADWAY/SIDEWALK SURFACE. UTILITY COVERS SHALL NOT BE STRIPED OVER.
- THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES, TRASH COLLECTION AGENCY, AND EMERGENCY SERVICES OF THE CONSTRUCTION SCHEDULE TO ALLOW COORDINATION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE SITE OR SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXISTING CURB, GUTTER AND OTHER IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.
- CONCRETE CURB, GUTTER, DRIVEWAY, SIDEWALK AND PAVEMENT REMOVAL AND REPLACEMENT MUST BE KEPT TO ONE SIDE OF THE STREET UNTIL WORK FOR THAT SIDE IS COMPLETE, KEEPING THE OTHER SIDE FREE OF OBSTRUCTION FOR THE NEIGHBORHOOD'S SAFE USE.

II. WORK HOURS

- SEE PROJECT SPECIFICATIONS, SECTION 7, FOR WORK HOURS AND RESTRICTIONS.

III. TRAFFIC CONTROL

- SEE PROJECT SPECIFICATIONS, SECTION 103 OF THE TECHNICAL SPECIFICATIONS, FOR TRAFFIC CONTROL REQUIREMENTS.

IV. SIGNAGE NOTES

- ALL SIGNS SHALL BE PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- INSTALLATION OF SIGNS, MARKINGS AND STRIPING SHALL BE PER PROJECT PLANS AND SPECIFICATIONS, HOWEVER, CONTRACTOR SHALL CONFIRM EXACT SIGN LOCATIONS IN THE FIELD WITH ENGINEER PRIOR TO EXCAVATION OF THE FOUNDATION.
- UNLESS OTHERWISE SHOWN OR NOTED, ALL SIGNING SHOWN ON THESE PLANS SHALL BE NEW SIGNS MOUNTED ON NEW POLES / POSTS AND FOUNDATIONS PER PROJECT DETAILS.
- ALL SIGNS (EXISTING AND PROPOSED) WITHIN PROJECT LIMITS SHALL HAVE A MINIMUM CLEARANCE OF 7' TO THE BOTTOM OF THE SIGN SIGN PANEL. NOTIFY ENGINEER IN CASE OF DISCREPANCY.

V. MARKINGS AND STRIPING NOTES

- ALL MARKINGS AND STRIPING SHALL BE PER CALTRANS STANDARD PLANS, LATEST EDITION.
- ALL STRIPING AND LEGENDS SHALL BE THERMOPLASTIC.
- ENGINEER TO APPROVE CAT-TRACKING PRIOR TO PLACEMENT OF PERMANENT STRIPING AND LEGENDS. CONTRACTOR TO ALLOW MINIMUM 1 WEEK REVIEW BY ENGINEER AFTER PLACEMENT OF CAT-TRACKING.
- ADD "NO DUMPING-DRAINS TO BAY" STENCIL AT EVERY STORM DRAIN INLET. SEE SPECIFICATIONS.
- CROSSWALK STRIPING SHALL BE 10' LONG THERMOPLASTIC STRIPES, 12" WIDE SEPARATED BY 24" GAPS (SEE PLANS FOR COLOR).

VI. CONSTRUCTION STAGING

- CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL BY THE CITY ENGINEER A COMPLETE CONSTRUCTION STAGING PLAN IMMEDIATELY UPON APPROVAL OF INSURANCE FORMS AND CERTIFICATES. CONSTRUCTION STAGING AREA SHALL BE LOCATED IN AN AREA APPROVED BY THE CITY ENGINEER.
- NO EQUIPMENT SHALL BE STORED WITHIN CITY RIGHTS-OF-WAY UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
- 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 CITY ENGINEER. SCREENING SHALL CONSIST OF MATERIALS APPROVED BY THE CITY ENGINEER AND SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

VII. STORM WATER POLLUTION, EROSION CONTROL, AND CLEANUP

- 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, CONSTRUCTION BMP PLAN SHEET, ATTACHED HERETO AS SHEET NO. 29.
- CONTRACTOR SHALL SUBMIT FOR CITY REVIEW A WATER POLLUTION CONTROL 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 BETWEEN APRIL 30TH & OCTOBER 1ST. WORK TO CONTINUE AFTER OCTOBER 1ST WITH WRITTEN PERMISSION FROM THE CITY WITH ADDITIONAL PROTECTIVE MEASURES ONLY.
- APPLY CONCRETE, ASPHALT, AND SEAL COAT DURING DRY WEATHER TO PREVENT CONTAMINANTS FROM CONTACTING STORM WATER RUNOFF.
- COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, ETC.
- 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).
- 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.
- NO MATERIAL, RESIDUE WASTE OR DEBRIS GENERATED BY CONSTRUCTION ACTIVITIES WILL BE ALLOWED TO BE WASHED INTO ANY DRAINAGE INLETS.
- 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.
- DURING CONSTRUCTION, STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION.
- BERM AROUND STORAGE AREAS TO PREVENT CONTACT WITH STORMWATER RUNOFF.
- STORE STOCKPILED MATERIALS AND WASTES OVER PLASTIC SHEETING OR A TARP, AND UNDER A TEMPORARY ROOF OR SECURED PLASTIC SHEETING OR TARP.
- ALWAYS PARK PAVING MACHINES OVER DRIP PANS OR ABSORBENT MATERIALS, AS THEY TEND TO DRIP CONTINUOUSLY.
- CONSTRUCTION SITE SHALL BE KEPT CLEAN AND SHALL BE SWEEPED BY MECHANICAL SWEEPING ON A DAILY BASIS.

VIII. EXISTING CONDITIONS, UTILITIES AND MONUMENTS

- CONTRACTOR SHALL CONTACT USA [UNDERGROUND SERVICES ALERT 1-(800)-227-2600] AND AFFECTED UTILITY COMPANIES, 72 HOURS 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.
- LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS WAS COMPILED FROM SURVEYED SURFACE UTILITIES AND UTILITY COMPANIES' FACILITY SCHEMATICS AND IS APPROXIMATE. THE PAINT MARKINGS AND COVERS OF 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 ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES.
- ALL UTILITIES WITHIN 5--FT Laterally AND CROSSING THE PROPOSED STORM DRAIN ALIGNMENT AND PROPOSED BIORETENTION AREAS SHALL BE POTHOLED. ALL UTILITIES WITHIN THE LIMITS OF THE FULL DEPTH RECLAMATION AREA SHALL ALSO BE POTHOLED. THE POTHOLED DATA (DATE AND TIME OF POTHOLE, PRECISE LOCATION OF POTHOLE, DEPTH TO UTILITY, UTILITY TYPE AND SIZE, UTILITY PIPE MATERIAL, DEPTH OF ASPHALT, DEPTH OF ROAD BASE, SOIL TYPES ENCOUNTERED, AND OTHER RELEVANT INFORMATION) SHALL BE SUBMITTED TO THE CITY. THE SUBMITTAL SHALL SPECIFICALLY IDENTIFY ANY POTENTIAL CONFLICTS. CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION IN THAT AREA UNTIL A WRITTEN RESPONSE IS RECEIVED FROM THE CITY REGARDING IDENTIFIED CONFLICTS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT-IN-PLACE EXISTING MONUMENTS. DESTROYED/DAMAGED MONUMENTS SHALL BE RE-ESTABLISHED AT CONTRACTOR'S SOLE EXPENSE.
- THE LOCATION OF SURFACE UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE ONLY. ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT KNOWN OR IN A LOCATION DIFFERENT FROM WHICH IS MARKED IN THE STREET SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION. THIS VERIFICATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY AS REQUIRED.
- PROTECT EXISTING IRRIGATION SYSTEMS WITHIN PROJECT LIMITS.
- ALL EXISTING SURFACE UTILITY FACILITIES SUCH AS BUT NOT NECESSARILY LIMITED TO WATER VALVES, GAS VALVES, ELECTRICAL VAULTS, MANHOLES, FIRE HYDRANTS POWER POLES, ETC. SHALL BE PROTECTED IN PLACE AND ADJUSTED TO GRADE AS NECESSARY. ALL UTILITIES SHOWN ARE SCHEMATIC ONLY AND ARE NOT COMPLETE. CONTRACTOR SHALL FIELD VERIFY AND INVENTORY ALL UTILITY AND OTHER FEATURES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE AWARE OF ALL OVERHEAD LINES. ALL CONSTRUCTION EQUIPMENT SHALL MEET THE MAXIMUM HEIGHT REQUIREMENT.

IX. EARTHWORK AND GRADING

- TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH, DEBRIS AND ANY OTHER DELETERIOUS MATERIAL SHALL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
- 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.
- COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.

X. 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 CITY OF EAST PALO ALTO 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 CITY OF EAST PALO ALTO.

XI. DEMOLITION NOTES

- EXISTING SIGNS AS SHOWN ON THE SIGNING/STRIPING PLANS SHALL BE SALVAGED AND MAINTAINED IN AN ACCEPTABLE CONDITION FOR RE-INSTALLATION BY THE CONTRACTOR.
- DEMOLITION INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS AND GRINDING OF THERMOPLASTIC PAVEMENT LEGENDS WHERE IN CONFLICT WITH PROPOSED STRIPING.
- THE CITY CANNOT WARRANT THAT THE EXISTING ASPHALT CONCRETE DEPTH IS COMPLETELY UNIFORM THROUGHOUT. DIGOUT SHALL MEAN REMOVE ALL EXISTING ASPHALT CONCRETE DOWN TO BASE MATERIAL, AND MAY BE MORE OR LESS THAN WHAT IS SHOWN ON THESE PLANS.

XII. BORING NOTES

BORING NUMBER	AC DEPTH (IN)	BASE ROCK DEPTH (IN)	BORING LOCATION
B-1	4	2	ADDISON AVE NORTH OF E. BAYSHORE RD
B-2	2.5	1.5	ADDISON AVE SOUTH OF GARDEN ST
B-3	2.5	1.5	ADDISON AVE NORTH OF GARDEN ST
B-4	3.5 TO 5	1.5	ADDISON AVE SOUTH OF BAY RD

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

NO.	REVISIONS	DATE
1	1 - CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/JL
DRAWN BY: CC/JL

PREPARED BY: CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599



TITLE: GENERAL, CONSTRUCTION & COORDINATION NOTES
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 2 OF 29

DATE: 2/14/2022
JOB NO. :
CIP-ST-26



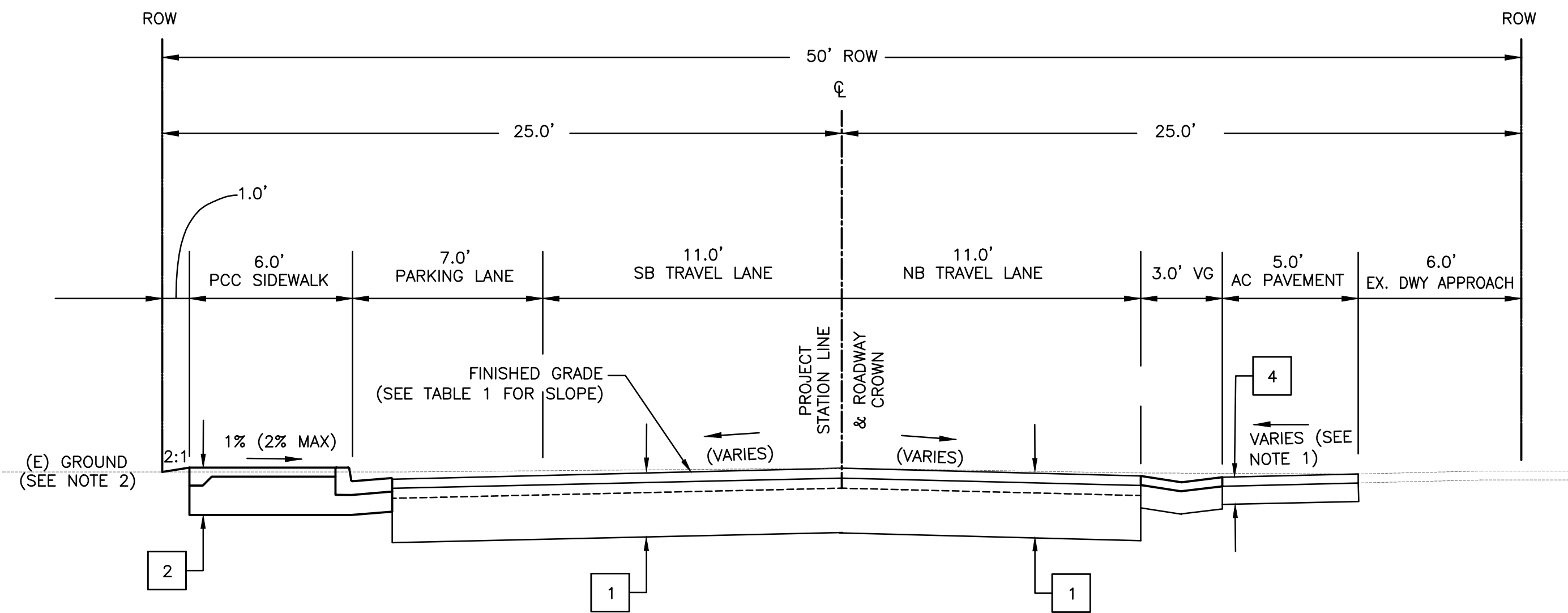
LEGEND:

- 1 4" HMA (TYPE A)
15" STABILIZED BASE (FULL DEPTH RECLAMATION)
- 2 4" PCC
4" CLASS 2 AB (95% REL. COMP.)
- 3 6" PCC
6" CLASS 2 AB (95% REL. COMP.)
- 4 2" HMA (TYPE A)
4" CLASS 2 AB (95% REL. COMP.)

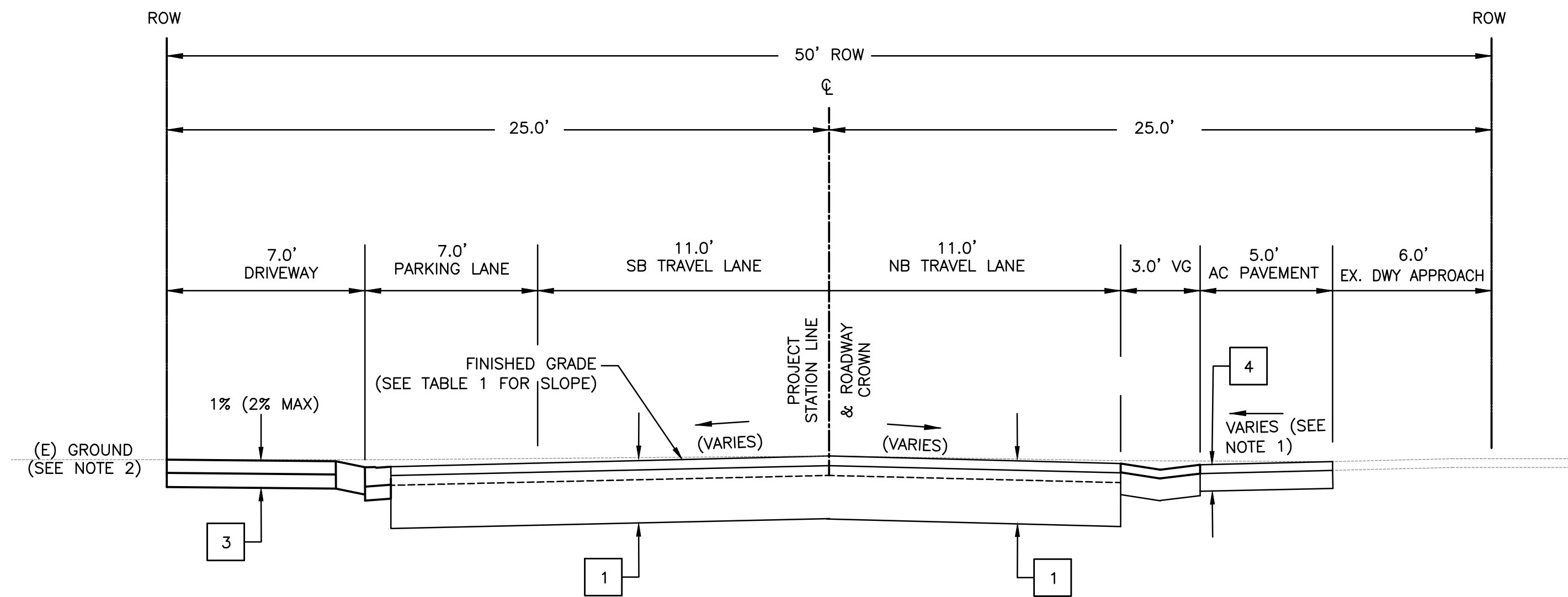
CONSTRUCTION NOTES:

1. CONTRACTOR TO ENSURE THAT A POSITIVE SLOPE IS PROVIDED FROM THE AC PAVEMENT EDGE, ON THE EAST SIDE OF ADDISON AVENUE TO THE VALLEY GUTTER EDGE.
2. CONTRACTOR TO ENSURE THAT DRIVEWAYS ARE CONSTRUCTED WITH A SLOPE TOWARDS THE STREET, SUCH THAT RUNOFF AT THE BACK OF THE DRIVEWAY WILL DRAIN TO THE GUTTER.
3. CONTRACTOR TO CONSTRUCT NEW SIDEWALKS WITH THICKENED SLAB AT THE BACK OF WALK PER DETAIL 6 ON SHEET 19

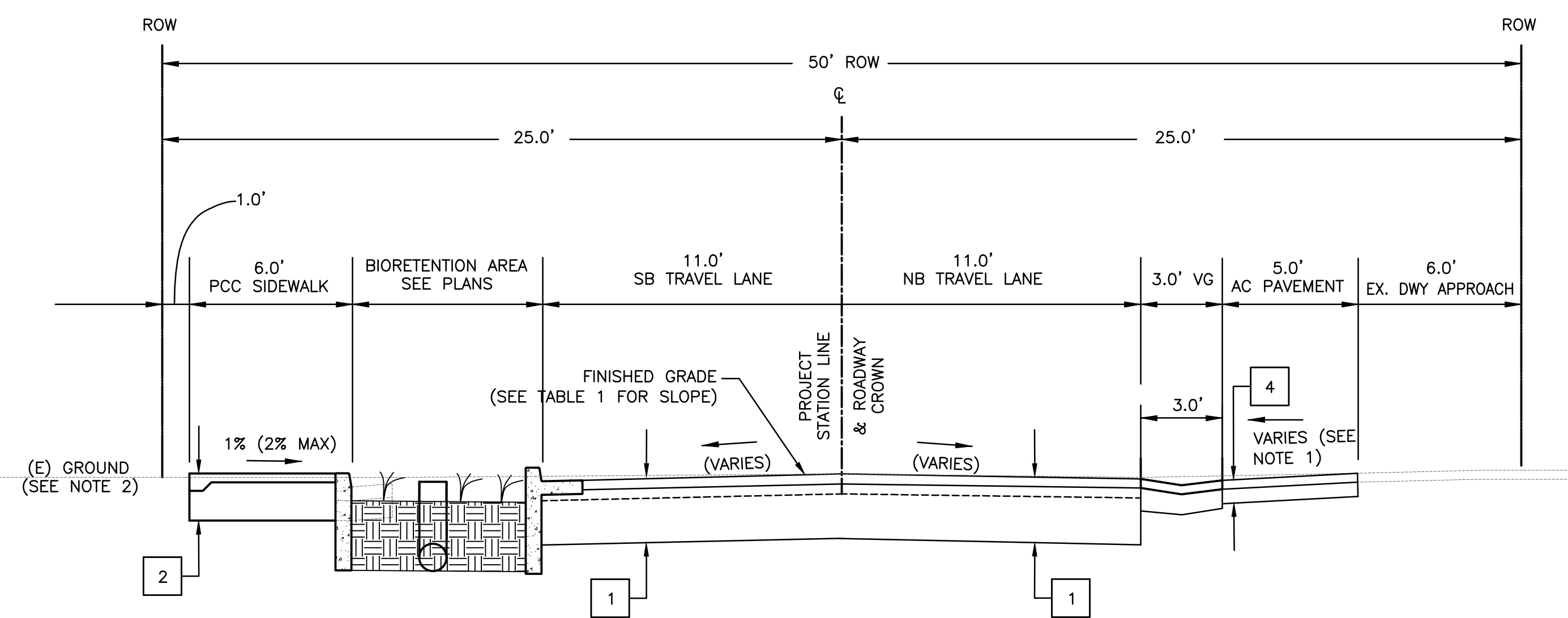
TABLE 1 - TRAVEL LANE SLOPES (E. BAYSHORE RD. TO GARDEN ST.)			
BEGIN STATION	END STATION	SB TRAVEL LANE CROSS SLOPE (%)	NB TRAVEL LANE CROSS SLOPE (%)
10+50	10+60	-0.5	-0.5
10+60	10+85	-1.0	-0.5
10+85	11+10	-1.5	-0.5
11+10	11+40	-2.5	-0.5
11+40	11+60	-3.0	-1.0
11+60	12+40	-5.0	-1.0
12+40	13+00	-5.0	0.5
13+00	13+70	-3.0	1.0
13+70	14+40	-3.0	1.0
14+40	15+25	-3.0	1.0
15+25	16+62	-5.0	1.0
16+62	16+75	-3.0	1.0
16+75	17+50	-5.0	1.0



A TYPICAL STREET CROSS-SECTION
(ADDISON AVE.- BETWEEN E. BAYSHORE RD. AND GARDEN ST.)
N.T.S.



B TYPICAL STREET CROSS-SECTION AT DRIVEWAY
(ADDISON AVE.- BETWEEN E. BAYSHORE RD. AND GARDEN ST.)
N.T.S.



C TYPICAL STREET CROSS-SECTION AT BIORETENTION AREA
(ADDISON AVE.- BETWEEN E. BAYSHORE RD. AND GARDEN ST.)
N.T.S.



J:\DESIGN\19.358-1-Addison St. SRTS Improvements\2022.03.XX-Final_Plan\03_Typical Sections.dwg 10:58:52 AM

Plotted on: 06/23/22 @ 10:58:52 AM

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
DRAWN BY: CC/JL

PREPARED BY: CSG CONSULTANTS
550. PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

TITLE: TYPICAL CROSS-SECTIONS
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

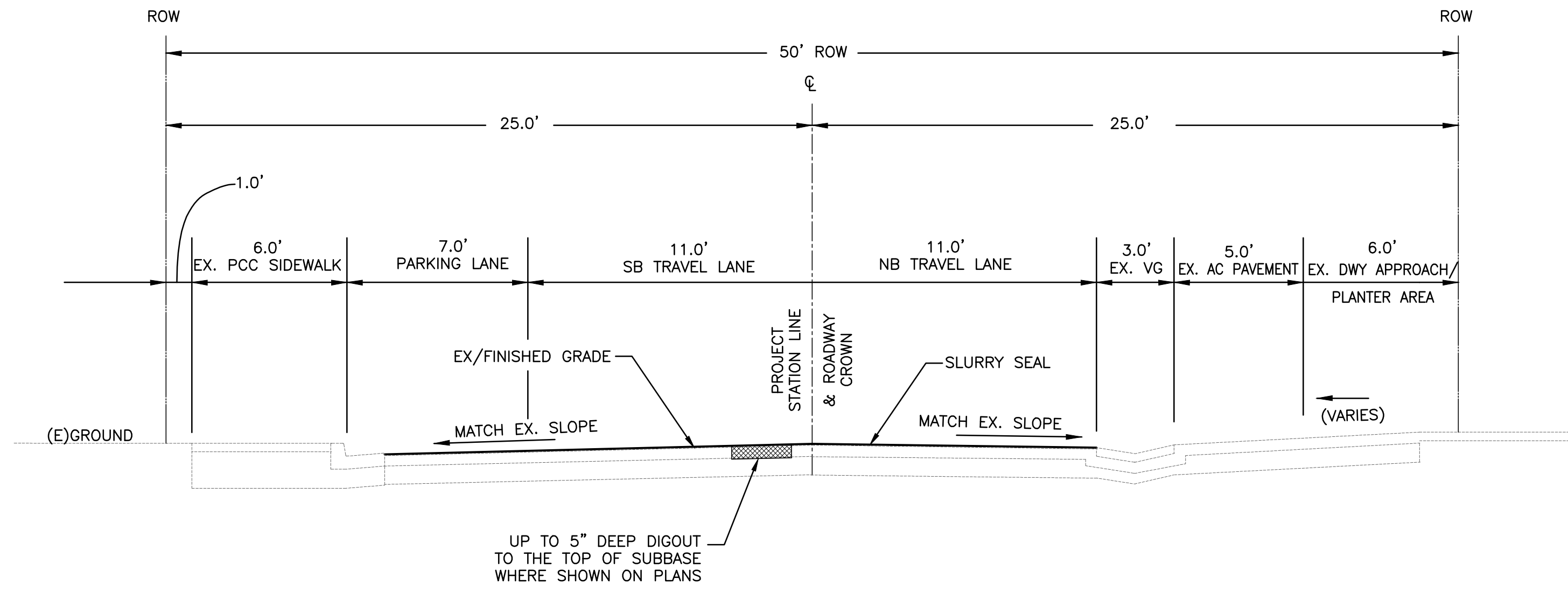
SHEET 3
OF
29

DATE: 2/14/2022
JOB NO.: CIP-ST-26

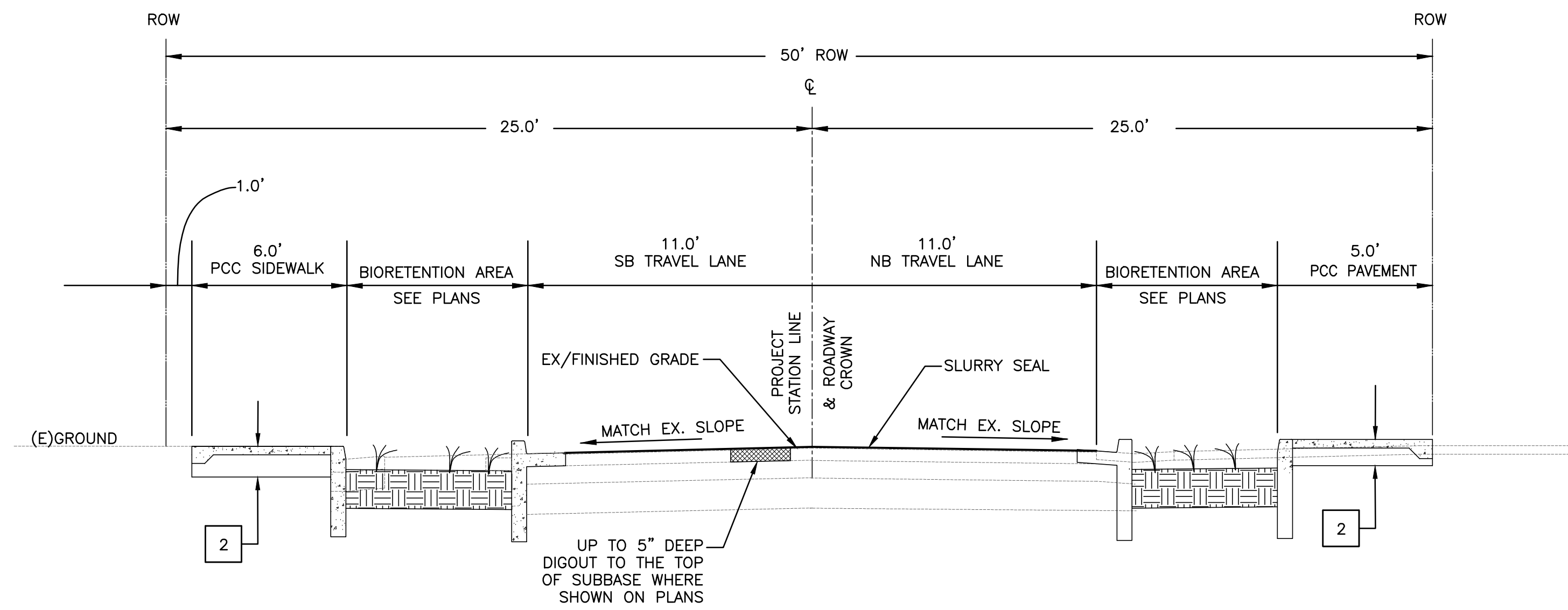


LEGEND:

- 2 4" PCC
- 4" CLASS 2 AB (95% REL. COMP.)



D
TYPICAL STREET CROSS-SECTION
(ADDISON AVE.— BETWEEN GARDEN ST. AND BAY ROAD)
 N.T.S.



E
TYPICAL STREET CROSS-SECTION AT BIORETENTION AREA
(ADDISON AVE.— BETWEEN GARDEN ST. AND BAY ROAD)
 N.T.S.

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
 DRAWN BY: CC/JL

CSG CONSULTANTS
 550 PILGRIM DRIVE
 FOSTER CITY, CA 94404
 PHONE (650)522-2500
 FAX (650)522-2599



PREPARED BY:

TYPICAL CROSS-SECTIONS
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 4
 OF
29

DATE: 2/14/2022
 JOB NO.:
 CIP-ST-26

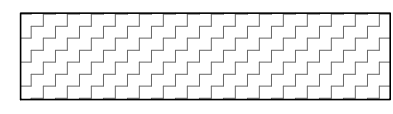
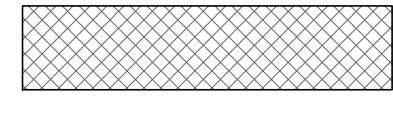
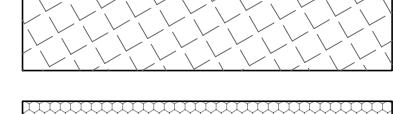
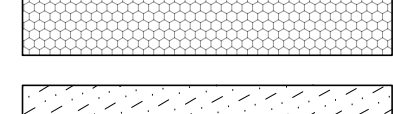
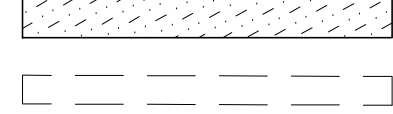
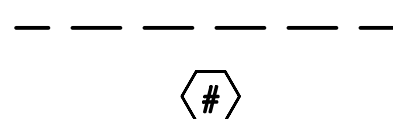
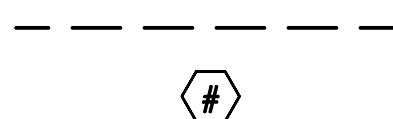
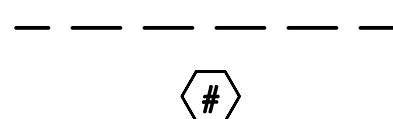


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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

LEGEND:

-  FULL DEPTH RECLAMATION (19" MIN BELOW ORIGINAL GRADE). SEE DETAIL A, B, AND C ON SHEET 3 FOR FINISHED STRUCTURAL PAVEMENT SECTIONS AND TRAVEL WAY CROSS SLOPES. REFER TO SPECIFICATIONS.
-  REMOVE AND DISPOSE OF AC PAVEMENT.
-  REMOVE AND DISPOSE OF PCC SIDEWALK, CURB RAMP, AND CURB AND GUTTER.
-  DIGOUT EX. AC PAVEMENT TO TOP OF SUBBASE (5" DEEP MAX).
-  GRIND EX. AC HUMP TO FINISHED GRADE.
-  TRENCH FOR NEW SD PIPE
-  SAWCUT LINE
-  DIGOUT NUMBER

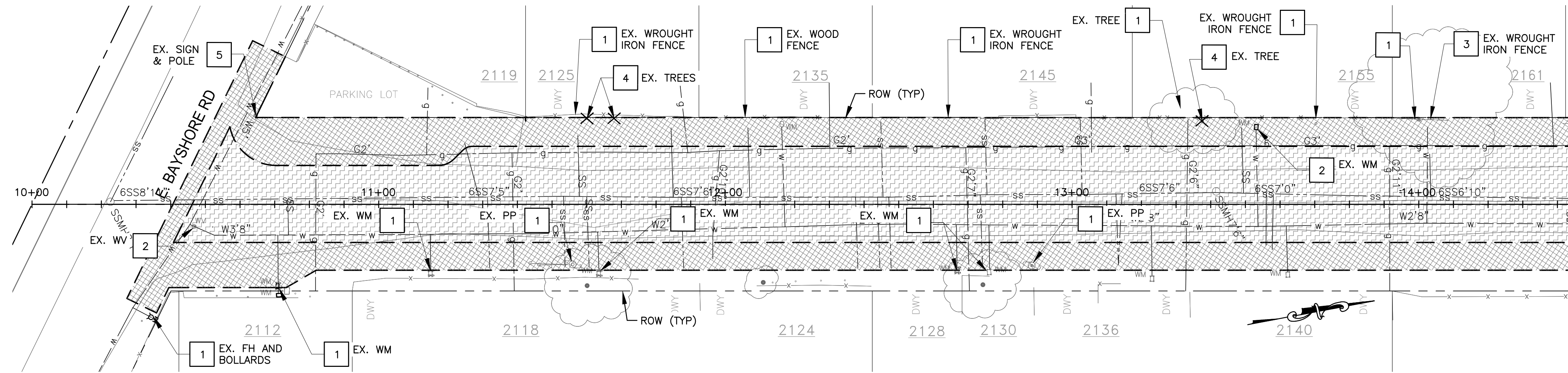
CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE
- 2 ADJUST TO GRADE
- 3 RECONSTRUCT
- 4 REMOVE
- 5 REMOVE AND SALVAGE

PAVEMENT DEMOLITION AND IMPROVEMENT NOTES

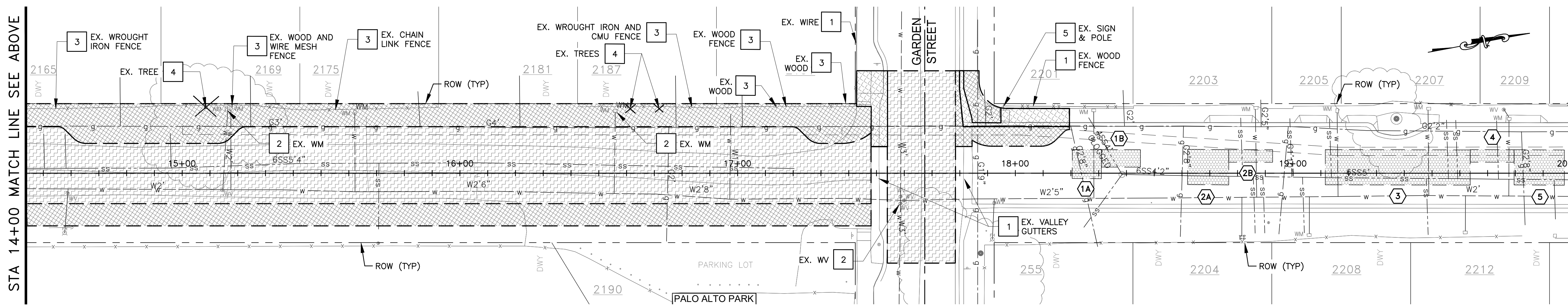
1. BASE FAILURE REPAIR LOCATIONS WERE MARKED IN THE FIELD AND ARE SHOWN HEREON IN THEIR APPROXIMATE LOCATION. EACH REPAIR LOCATION SHALL BE REVIEWED AND AGREED UPON WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
2. EXISTING PAVEMENT STRIPES AND MARKINGS SHALL BE REMOVED PRIOR TO SURFACE TREATMENT.
3. MATCH EXISTING CROSS SLOPE AND PROFILE OF THE ROAD, UNLESS OTHERWISE NOTED (EX. E. BAYSHORE ST. TO GARDEN ST.
4. FOR SLURRY SEAL STREET FINISH, DIGOUTS SHALL BE PERFORMED PRIOR TO THE TREATMENT.
5. EACH HMA LIFT SHALL NOT BE PLACED LESS THAN 1.5 INCHES OR MORE THAN 2 INCHES IN COMPACTED THICKNESS. PLACE LIFTS IN EQUAL THICKNESS IF TOTAL REPLACEMENT IS OVER 3 INCHES.
6. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING WITHIN LIMITS OF HIGH RISK UNDERGROUND UTILITIES (ELECTRICAL AND GAS).
7. CONTRACTOR TO VERIFY LIMITS OF DEMOLITION WITH LIMITS OF IMPROVEMENTS SHOWN ON IMPROVEMENTS PLAN AND PROFILE, AND LAYOUT AND DETAIL SHEETS, PRIOR TO DEMOLITION WORKS.

DIGOUT SCHEDULE			
DIGOUT NO. (#)	WIDTH (FT)	LENGTH (FT)	AREA (SF)
1A	11	11	121
1B	6	14	84
2A	15	13	195
2B	16	5	80
3	13	52	676
4	5	16	80
5	13	18	234



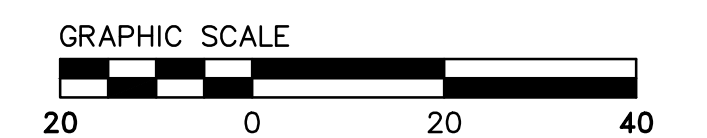
ADDISON AVENUE
SCALE 1" = 20'

STA. 14+00 MATCH LINE, SEE BELOW



ADDISON AVENUE
SCALE 1" = 20'

STA. 20+00 MATCH LINE, SEE SHEET 6



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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Plotted on: 06/23/22 @ 11:02:09 AM

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
DRAWN BY: CC/JL

PREPARED BY: CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599



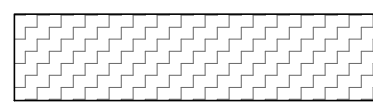
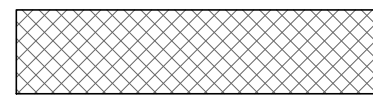
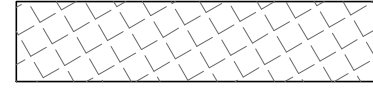
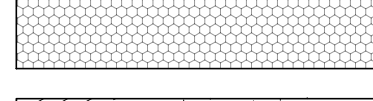
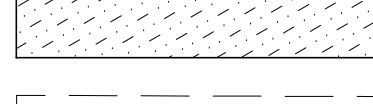



TITLE: EXISTING CONDITIONS/DEMOLITION PLAN
STA. 10+00 TO STA. 20+00
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 5
OF
29

DATE: 2/14/2022
JOB NO.:
CIP-ST-26



LEGEND:

-  FULL DEPTH RECLAMATION (19" MIN BELOW ORIGINAL GRADE). SEE DETAIL A, B, AND C ON SHEET 3 FOR FINISHED STRUCTURAL PAVEMENT SECTIONS AND TRAVEL WAY CROSS SLOPES. REFER TO SPECIFICATIONS.
-  REMOVE AND DISPOSE OF AC PAVEMENT.
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-  DIGOUT EX. AC PAVEMENT TO TOP OF SUBBASE (5" DEEP MAX).
-  GRIND EX. AC HUMP TO FINISHED GRADE.
-  TRENCH FOR NEW SD PIPE
-  SAWCUT LINE
-  DIGOUT NUMBER

CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE
- 2 ADJUST TO GRADE
- 3 RECONSTRUCT
- 4 REMOVE
- 5 REMOVE AND SALVAGE

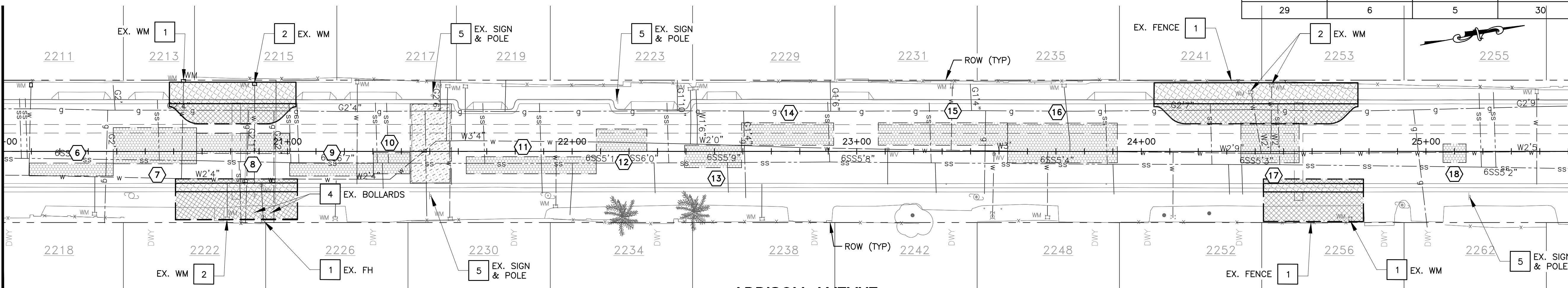
PAVEMENT DEMOLITION AND IMPROVEMENT NOTES

1. BASE FAILURE REPAIR LOCATIONS WERE MARKED IN THE FIELD AND ARE SHOWN HEREON IN THEIR APPROXIMATE LOCATION. EACH REPAIR LOCATION SHALL BE REVIEWED AND AGREED UPON WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
2. EXISTING PAVEMENT STRIPES AND MARKINGS SHALL BE REMOVED PRIOR TO SURFACE TREATMENT.
3. MATCH EXISTING CROSS SLOPE AND PROFILE OF THE ROAD, UNLESS OTHERWISE NOTED (EX. E. BAYSHORE ST. TO GARDEN ST.
4. FOR SLURRY SEAL STREET FINISH, DIGOUTS SHALL BE PERFORMED PRIOR TO THE TREATMENT.
5. EACH HMA LIFT SHALL NOT BE PLACED LESS THAN 1.5 INCHES OR MORE THAN 2 INCHES IN COMPACTED THICKNESS. PLACE LIFTS IN EQUAL THICKNESS IF TOTAL REPLACEMENT IS OVER 3 INCHES.
6. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING WITHIN LIMITS OF HIGH RISK UNDERGROUND UTILITIES (ELECTRICAL AND GAS).
7. CONTRACTOR TO VERIFY LIMITS OF DEMOLITION WITH LIMITS OF IMPROVEMENTS SHOWN ON IMPROVEMENTS PLAN AND PROFILE, AND LAYOUT AND DETAIL SHEETS, PRIOR TO DEMOLITION WORKS.

DIGOUT SCHEDULE

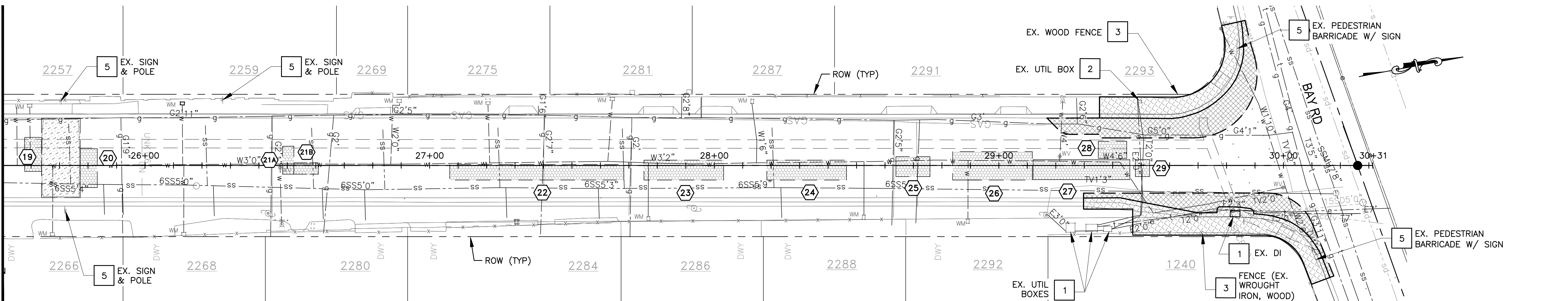
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9	5	30	150
10	8	13	104
11	6	45	270
12	8	18	144
13	8	20	160
14	8	32	256
15	8	45	360
16	14	39	546
17	14	21	294
18	7	8	56
19	12	6	72
20	12	6	72
21A	4	10	40
21B	9	4	36
22	6	61	366
23	7	28	196
24	7	28	196
25	7	12	84
26	10	28	280
27	7	34	238
28	6	10	60
29	6	5	30

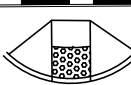

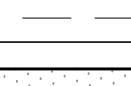
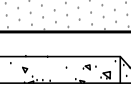
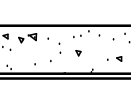

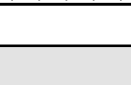


STA 20+00 MATCH LINE, SEE SHEET 5



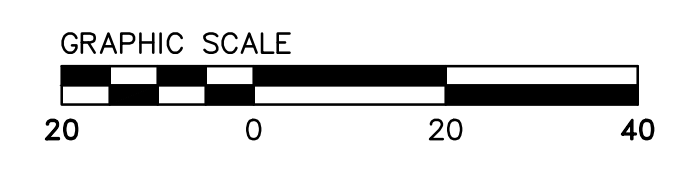
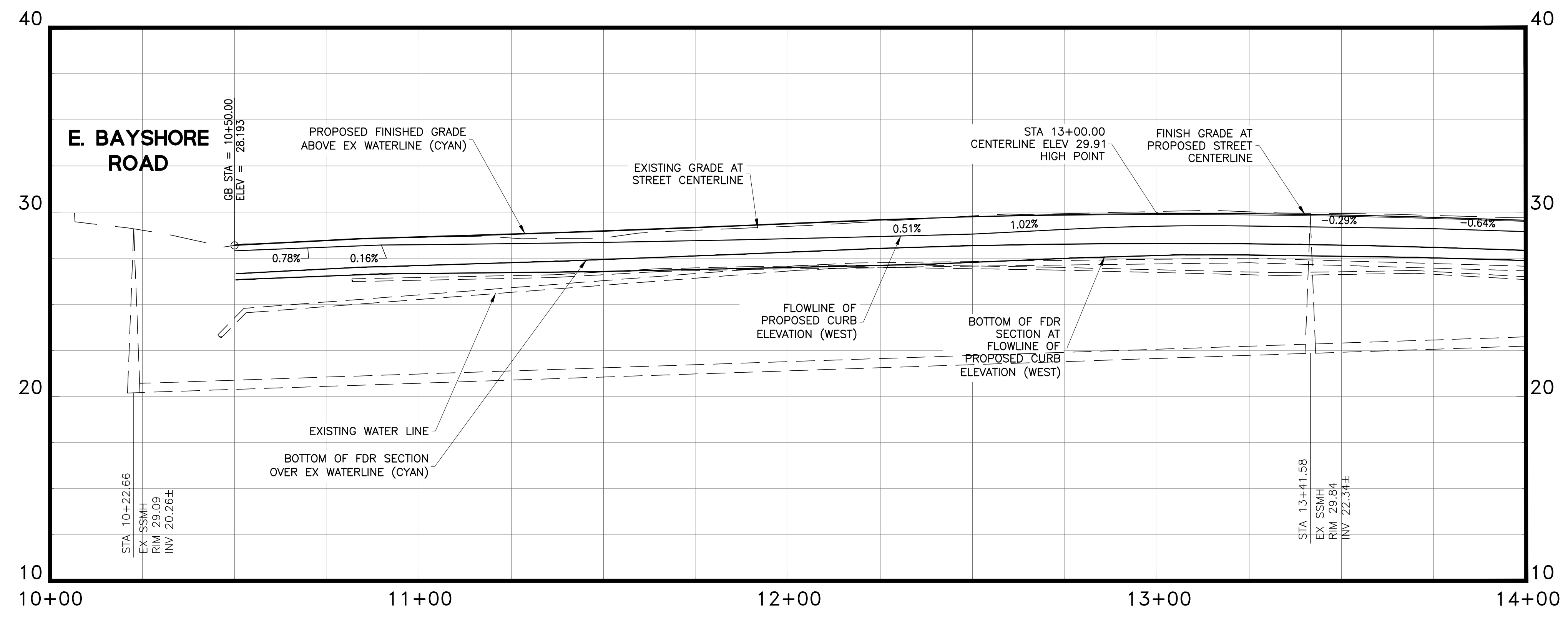
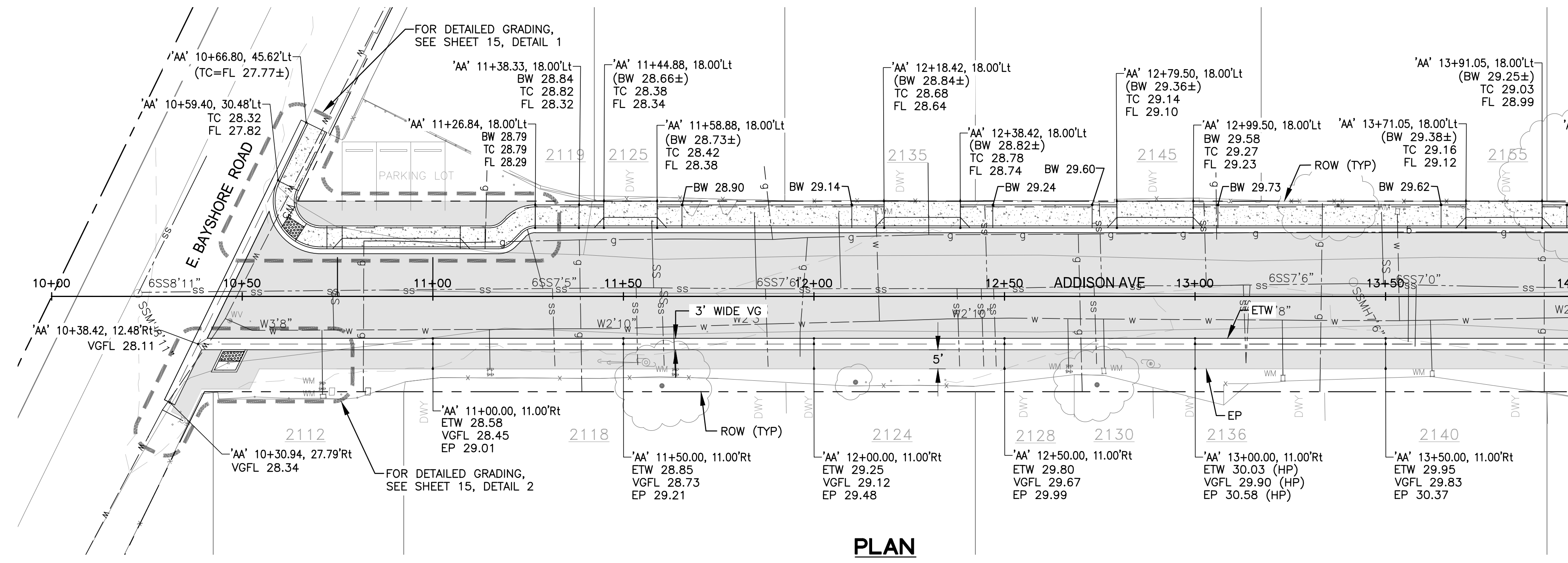
ADDISON AVENUE
SCALE 1" = 20'

STA 25+50 MATCH LINE, SEE ABOVE



- LEGEND:**
-  PVC STORM DRAIN PIPE, SIZE SHOWN ON PLAN
 -  NEW CURB RAMP
 -  OVERFLOW: 24"x24" PRECAST CONCRETE DROP INLET WITH GRATE
 -  NEW VALLEY GUTTER PER COUNTY STD DETAIL D-5. SEE SHEET 14.
 -  SLURRY SEAL
 -  NEW DRIVEWAY PER COUNTY STD DETAIL D-1. SEE SHEET 14.
 -  PCC SIDEWALK, C&G, PER COUNTY STD DETAIL D-3. SEE SHEET 14.
 -  BIORETENTION AREA
 -  PAVEMENT OVERLAY

- NOTES:**
1. LOCATION AND DEPTHS OF UTILITIES SHOWN HEREON ARE APPROXIMATE AND BASED ON LIMITED MAPPING INFORMATION, RECORD DATA, AND ELECTRONIC LOCATING. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EXISTING UTILITIES.
 2. FOR PAVEMENT REMOVAL AND REPLACEMENT LIMITS, REFER TO SHEETS 5 AND 6.
 3. FOR SPEED HUMP LOCATION, SEE SHEET 11.
 4. SEE IRRIGATION PLANS FOR LOCATIONS AND SIZES OF IRRIGATION SLEEVES, METERS, BACKFLOW PREVENTER, CONTROLLER AND OTHER APPURTENANCES.
 5. CONTRACTOR SHALL RECONSTRUCT WATER SERVICES THAT CONFLICT WITH NEW DRAINAGE SYSTEM AND BIORETENTION AREAS. NEW WATER SERVICES SHALL BE CONSTRUCTED AROUND BIORETENTION AREAS.



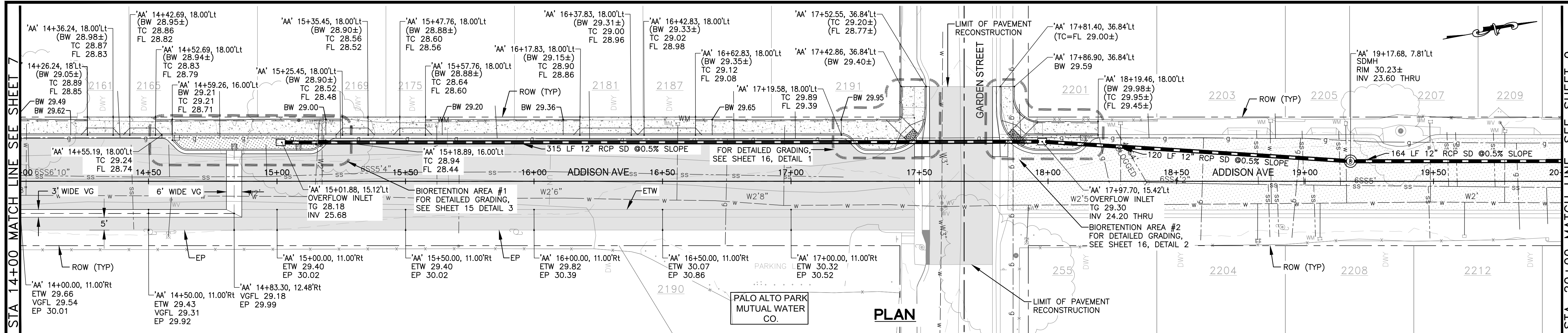
STA. 14+00 MATCH LINE, SEE SHEET 8

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

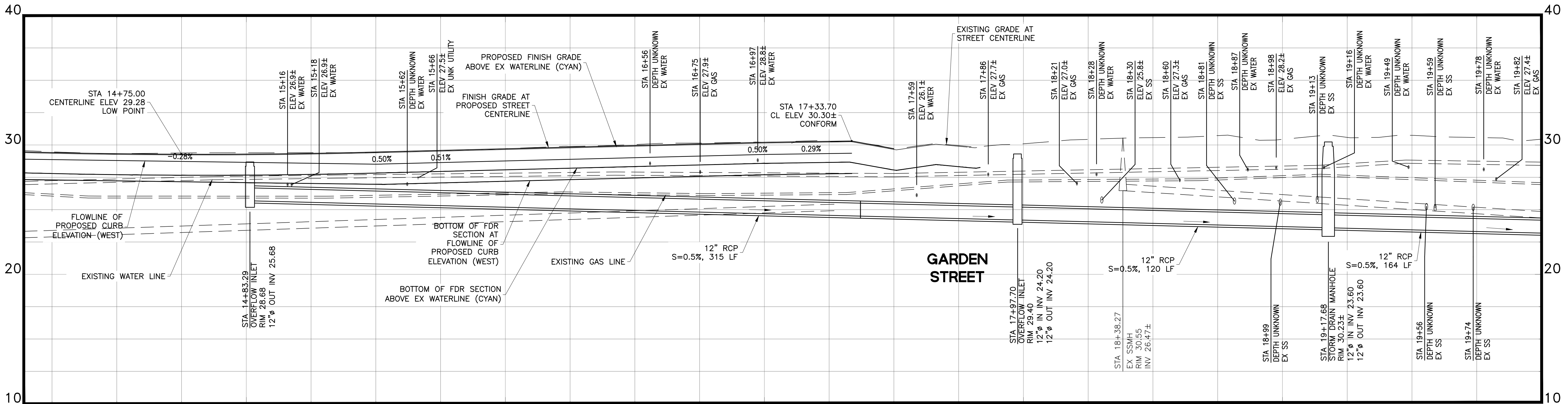
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NO.	REVISIONS	DATE					
1	CONFORMED SET	6/23/2022					
<p>PREPARED BY: CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599</p>							
<p>TITLE: IMPROVEMENTS PLAN & PROFILE STA. 10+00 TO STA. 14+00 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT CITY OF EAST PALO ALTO, CALIFORNIA</p>							
<p>SHEET 7 OF 29</p>							
<p>DATE: 2/14/2022 JOB NO.: CIP-ST-26</p>							
							



ADDISON AVENUE
SCALE: 1" = 20'

- LEGEND:**
- PVC STORM DRAIN PIPE, SIZE SHOWN ON PLAN
 - NEW CURB RAMP
 - OVERFLOW: 24"x24" PRECAST CONCRETE DROP INLET WITH GRATE
 - NEW VALLEY GUTTER PER COUNTY STD DETAIL D-5. SEE SHEET 14.
 - SLURRY SEAL
 - NEW DRIVEWAY PER COUNTY STD DETAIL D-1. SEE SHEET 14.
 - PCC SIDEWALK, C&G, PER COUNTY STD DETAIL D-3. SEE SHEET 14.
 - BIORETENTION AREA
 - PAVEMENT OVERLAY

- NOTES:**
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 2. FOR PAVEMENT REMOVAL AND REPLACEMENT LIMITS, REFER TO SHEETS 5 AND 6.
 3. FOR SPEED HUMP LOCATION, SEE SHEET 11.
 4. SEE IRRIGATION PLANS FOR LOCATIONS AND SIZES OF IRRIGATION SLEEVES, METERS, BACKFLOW PREVENTER, CONTROLLER AND OTHER APPURTENANCES.
 5. CONTRACTOR SHALL RECONSTRUCT WATER SERVICES THAT CONFLICT WITH NEW DRAINAGE SYSTEM AND BIORETENTION AREAS. NEW WATER SERVICES SHALL BE CONSTRUCTED AROUND BIORETENTION AREAS.



PROFILE
SCALE: HORIZONTAL 1"=20' ; VERTICAL 1"=4'

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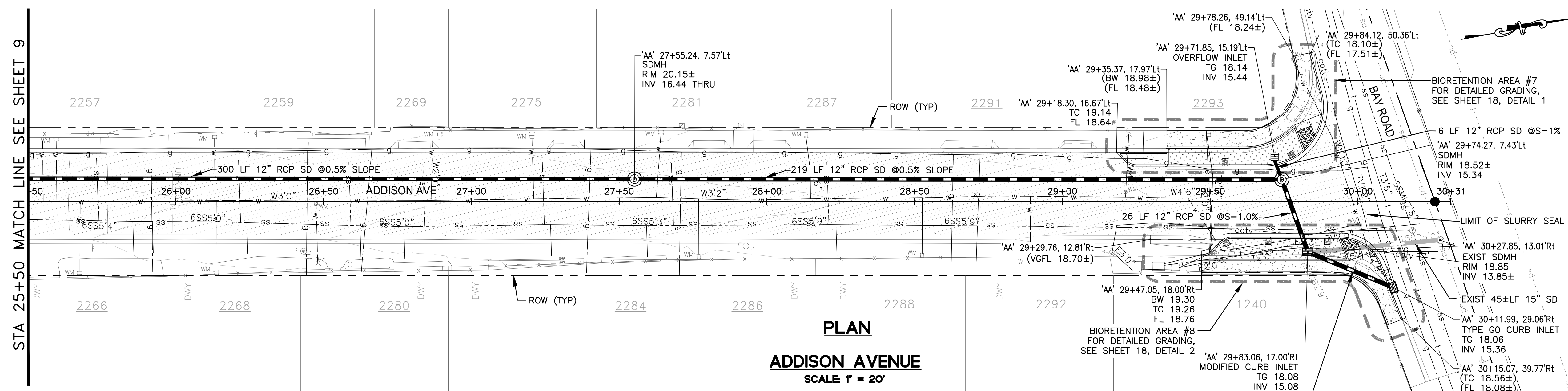


FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

<p>DESIGNED BY: CC/KS/JL DRAWN BY: CC/JL</p> <p>NO. 1 CONFORMED SET</p>	<p>DATE: 6/23/2022</p> <p>REVISIONS</p>
<p>PREPARED BY: CSG CONSULTANTS</p> <p>550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599</p>	
<p>TITLE: IMPROVEMENTS PLAN & PROFILE STA. 14+00 TO STA. 20+00 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT CITY OF EAST PALO ALTO, CALIFORNIA</p>	
<p>SHEET 8 OF 29</p>	
<p>DATE: 2/14/2022 JOB NO.: CIP-ST-26</p>	



STA 25+50 MATCH LINE SEE SHEET 9



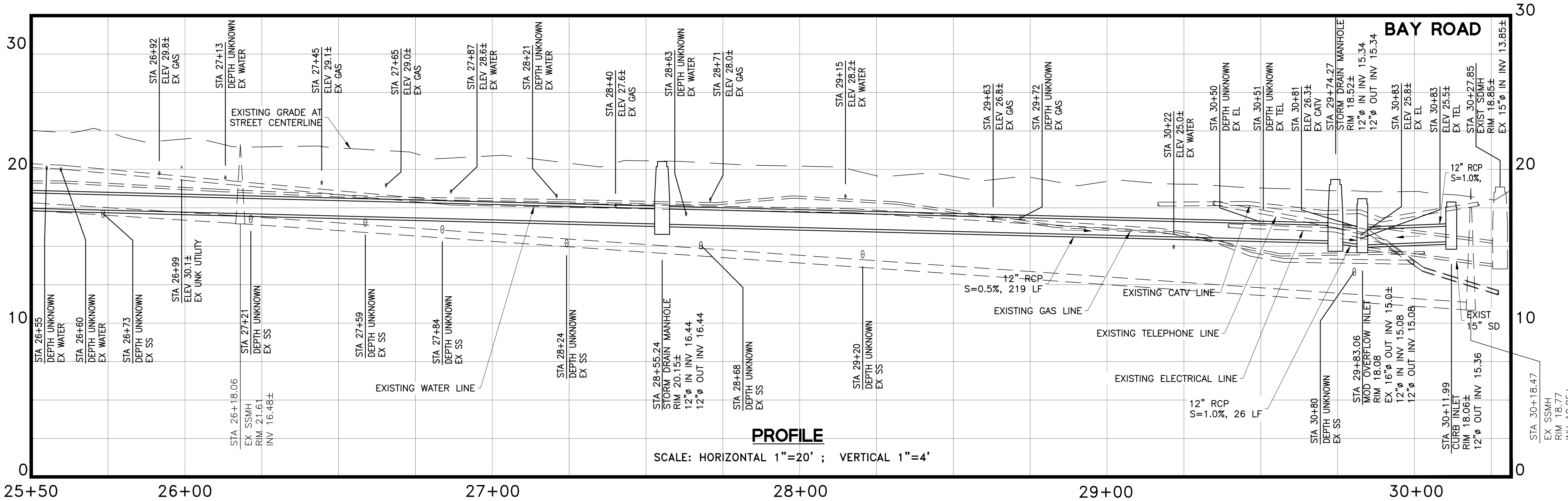
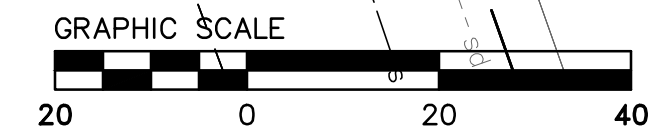
PLAN
ADDISON AVENUE
SCALE: 1" = 20'

LEGEND:

- PVC STORM DRAIN PIPE, SIZE SHOWN ON PLAN
- NEW CURB RAMP
- OVERFLOW: 24"x24" PRECAST CONCRETE DROP INLET WITH GRATE
- NEW VALLEY GUTTER PER COUNTY STD DETAIL D-5. SEE SHEET 14.
- SLURRY SEAL
- NEW DRIVEWAY PER COUNTY STD DETAIL D-1. SEE SHEET 14.
- PCC SIDEWALK, C&G, PER COUNTY STD DETAIL D-3. SEE SHEET 14.
- BIORETENTION AREA
- PAVEMENT OVERLAY

NOTES:

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PROFILE

SCALE: HORIZONTAL 1"=20' ; VERTICAL 1"=4'

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
DRAWN BY: CC/JL

PREPARED BY:
CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

TITLE:
IMPROVEMENTS PLAN & PROFILE
STA. 25+50 TO STA. 30+20
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 10
OF
29

DATE: 2/14/2022
JOB NO.:
CIP-ST-26

LEGEND

- (NO.) STRIPING DETAIL
- ▩ YIELD LINE (1/13)
- ↔ SHARED ROADWAY BICYCLE MARKING (CALTRANS/A24C) (2/13)
- ⊥ NEW ROADSIDE SIGN & POST (3/13)
- STOP PAVEMENT MARKING LEGEND "STOP" (CALTRANS/A24D)
- LIMIT LINE (STOP LINE) (CALTRANS/A24E)
- PAINT CURB, COLOR AND LOCATION AS SHOWN ON PLAN
- BLUE REFLECTIVE MARKER
- ▨ SPEED HUMP PER MENLO PARK FIRE PREVENTION SERVICE STANDARDS (5/13)

GENERAL STRIPING & SIGNAGE NOTES:

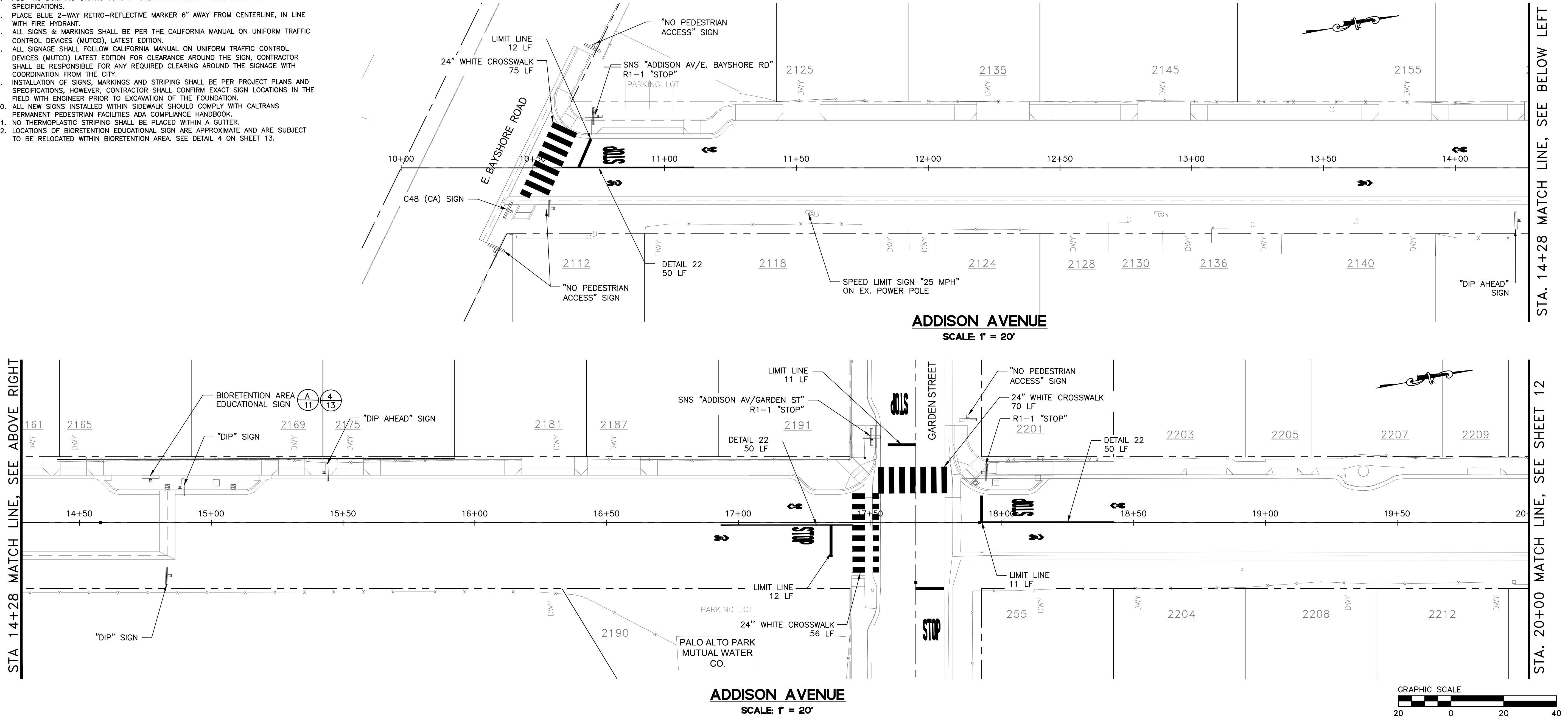
1. ALL STRIPING SHALL BE PER CALTRANS STANDARD PLANS, LATEST EDITION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY REMOVED OR DAMAGED STRIPING IN KIND AND/OR AS SHOWN ON THE SIGNAGE AND STRIPING PLAN.
3. ALL STRIPING AND LEGENDS SHALL BE THERMOPLASTIC.
4. CITY TO APPROVE CAT-TRACKING PRIOR TO PLACEMENT OF PERMANENT STRIPING AND LEGENDS. CONTRACTOR TO ALLOW MINIMUM 1 WEEK REVIEW BY CITY AFTER PLACEMENT OF CAT-TRACKING.
5. ADD "NO DUMPING-DRAINS TO BAY" STENCIL AT EVERY STORM DRAIN INLETS. SEE SPECIFICATIONS.
6. PLACE BLUE 2-WAY RETRO-REFLECTIVE MARKER 6" AWAY FROM CENTERLINE, IN LINE WITH FIRE HYDRANT.
7. ALL SIGNS & MARKINGS SHALL BE PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
8. ALL SIGNAGE SHALL FOLLOW CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION FOR CLEARANCE AROUND THE SIGN, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED CLEARING AROUND THE SIGNAGE WITH COORDINATION FROM THE CITY.
9. INSTALLATION OF SIGNS, MARKINGS AND STRIPING SHALL BE PER PROJECT PLANS AND SPECIFICATIONS, HOWEVER, CONTRACTOR SHALL CONFIRM EXACT SIGN LOCATIONS IN THE FIELD WITH ENGINEER PRIOR TO EXCAVATION OF THE FOUNDATION.
10. ALL NEW SIGNS INSTALLED WITHIN SIDEWALK SHOULD COMPLY WITH CALTRANS PERMANENT PEDESTRIAN FACILITIES ADA COMPLIANCE HANDBOOK.
11. NO THERMOPLASTIC STRIPING SHALL BE PLACED WITHIN A GUTTER.
12. LOCATIONS OF BIORETENTION EDUCATIONAL SIGN ARE APPROXIMATE AND ARE SUBJECT TO BE RELOCATED WITHIN BIORETENTION AREA. SEE DETAIL 4 ON SHEET 13.



C48 (CA) SIGN

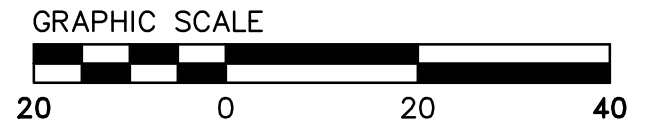
A - BIORETENTION AREA EDUCATIONAL SIGN PANEL INFORMATION

NOTE:
1. SEE DETAIL 4, SHEET 13 FOR POST AND FOUNDATION DESIGN.



ADDISON AVENUE SCALE 1" = 20'

ADDISON AVENUE SCALE 1" = 20'



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

U:\DESIGN\19_358-1_Addison St_SRTS Improvements\2021.08.XX_100_Plan\11_SIGNING&STRIPING_PLAN.dwg@ 11:39:58 AM

Plotted on: 02/11/22 @ 11:39:58 AM

STA. 14+28 MATCH LINE, SEE BELOW LEFT

STA. 20+00 MATCH LINE, SEE SHEET 12

<p>DESIGNED BY: CC/KS/LL</p> <p>DRAWN BY: CC/JL</p> <p>PREPARED BY: CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599</p>	<p>TITLE: SIGNING & STRIPING PLAN</p> <p>DATE: 2/14/2022</p> <p>JOB NO.: CIP-ST-26</p> <p>SHEET 11 OF 29</p> <p>DATE: 6/23/2022</p> <p>NO. REVISIONS</p>
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ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
 CITY OF EAST PALO ALTO, CALIFORNIA



LEGEND

- (NO.) STRIPING DETAIL
- ▼ YIELD LINE (1/13)
- ← SHARED ROADWAY BICYCLE MARKING (2/13)
- ⊥ NEW ROADSIDE SIGN & POST (3/13)
- STOP PAVEMENT MARKING LEGEND "STOP" (CALTRANS/A24D)
- LIMIT LINE (STOP LINE) (CALTRANS/A24E)
- PAINT CURB, COLOR AND LOCATION AS SHOWN ON PLAN
- BLUE REFLECTIVE MARKER
- ▨ SPEED HUMP PER MENLO PARK FIRE PREVENTION SERVICE STANDARDS (5/13)

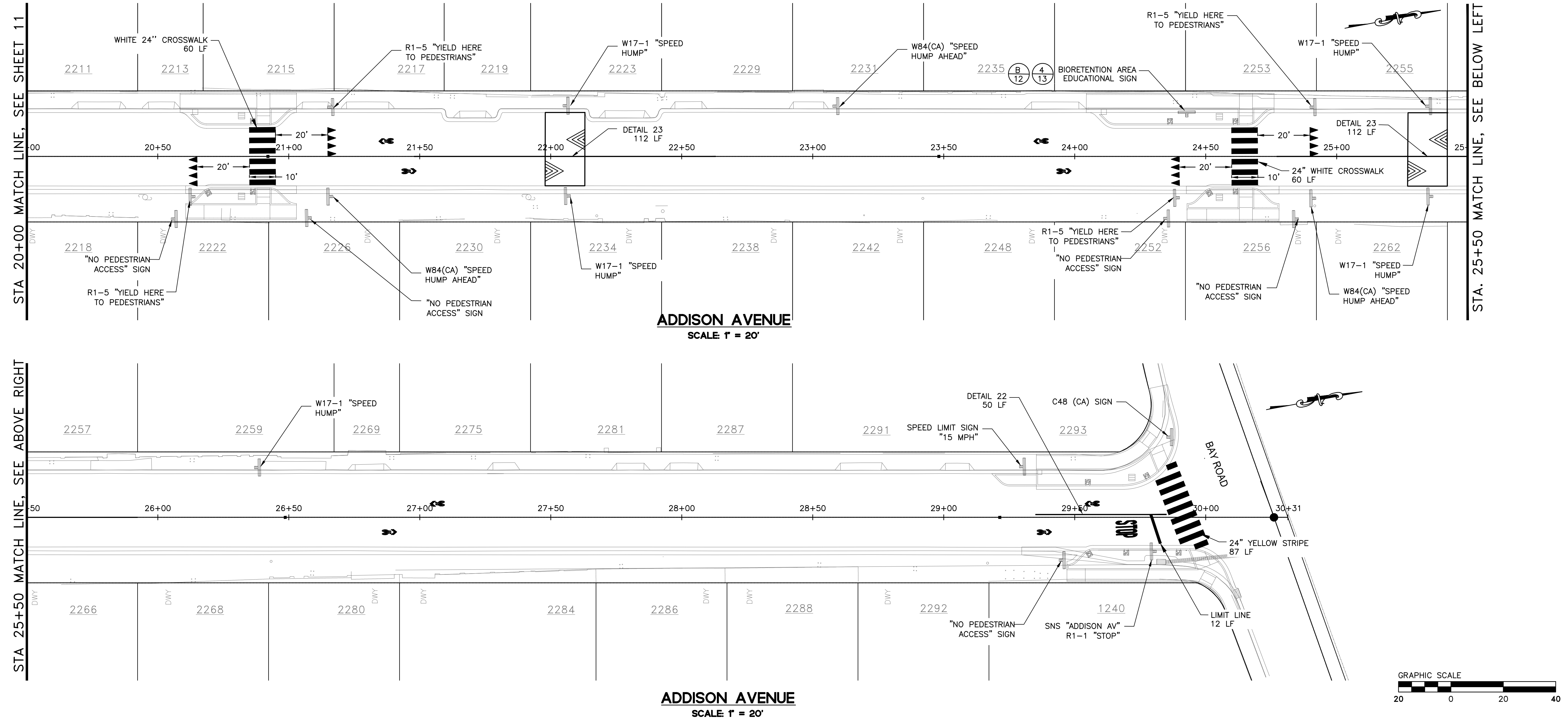
GENERAL STRIPING & SIGNAGE NOTES:

1. ALL STRIPING SHALL BE PER CALTRANS STANDARD PLANS, LATEST EDITION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY REMOVED OR DAMAGED STRIPING IN KIND AND/OR AS SHOWN ON THE SIGNAGE AND STRIPING PLAN.
3. ALL STRIPING AND LEGENDS SHALL BE THERMOPLASTIC.
4. CITY TO APPROVE CAT-TRACKING PRIOR TO PLACEMENT OF PERMANENT STRIPING AND LEGENDS. CONTRACTOR TO ALLOW MINIMUM 1 WEEK REVIEW BY CITY AFTER PLACEMENT OF CAT-TRACKING.
5. ADD "NO DUMPING-DRAINS TO BAY" STENCIL AT EVERY STORM DRAIN INLETS. SEE SPECIFICATIONS.
6. PLACE BLUE 2-WAY RETRO-REFLECTIVE MARKER 6" AWAY FROM CENTERLINE, IN LINE WITH FIRE HYDRANT.
7. ALL SIGNS & MARKINGS SHALL BE PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
8. ALL SIGNAGE SHALL FOLLOW CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION FOR CLEARANCE AROUND THE SIGNAGE WITH COORDINATION FROM THE CITY.
9. INSTALLATION OF SIGNS, MARKINGS AND STRIPING SHALL BE PER PROJECT PLANS AND SPECIFICATIONS. HOWEVER, CONTRACTOR SHALL CONFIRM EXACT SIGN LOCATIONS IN THE FIELD WITH ENGINEER PRIOR TO EXCAVATION OF THE FOUNDATION.
10. ALL NEW SIGNS INSTALLED WITHIN SIDEWALK SHOULD COMPLY WITH CALTRANS PERMANENT PEDESTRIAN FACILITIES ADA COMPLIANCE HANDBOOK.
11. NO THERMOPLASTIC STRIPING SHALL BE PLACED WITHIN A GUTTER.
12. LOCATIONS OF BIORETENTION EDUCATIONAL SIGN ARE APPROXIMATE AND ARE SUBJECT TO BE RELOCATED WITHIN BIORETENTION AREA. SEE DETAIL 4 ON SHEET 13.



B BIORETENTION AREA EDUCATIONAL SIGN PANEL INFORMATION

- NOTE:**
1. SEE DETAIL 4, SHEET 13 FOR POST AND FOUNDATION DESIGN.

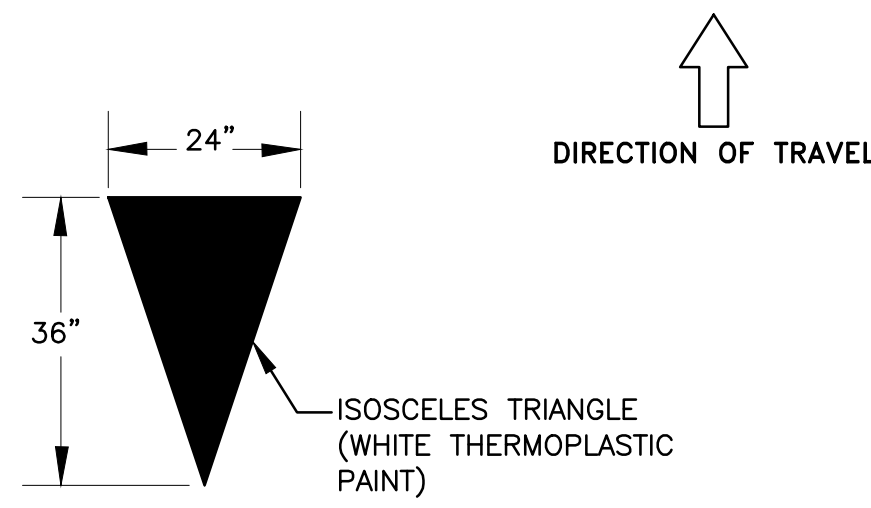
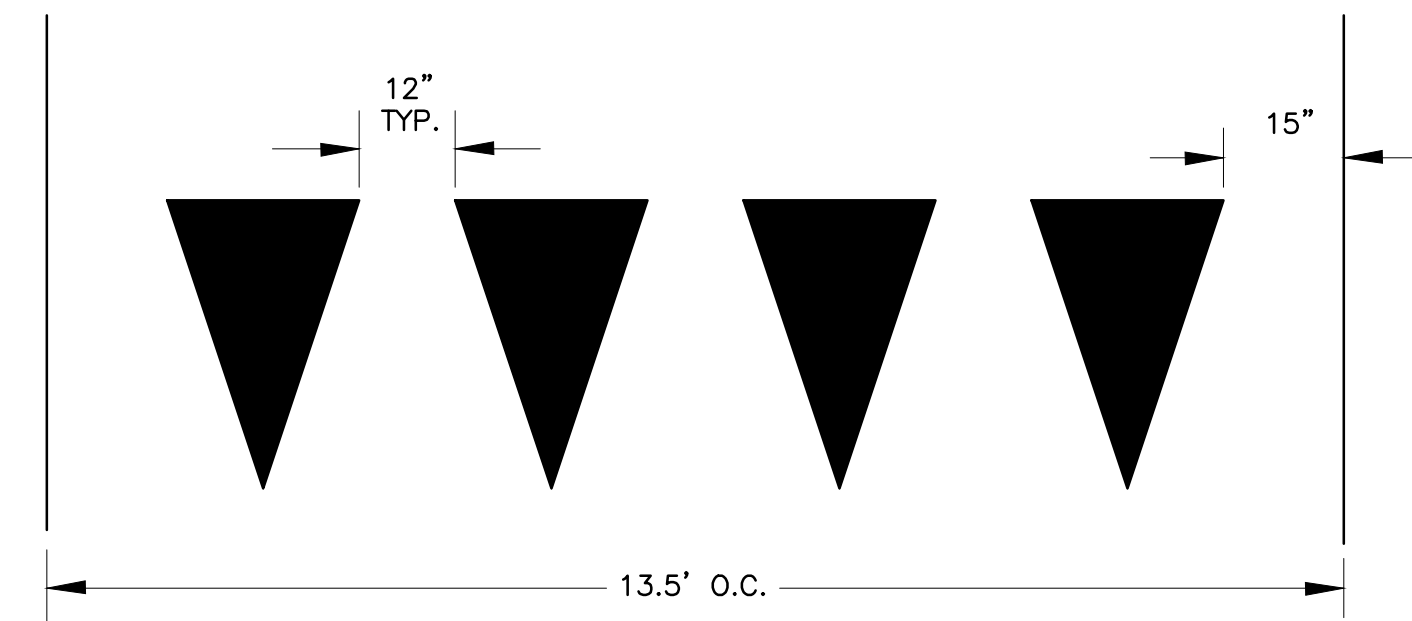


ADDISON AVENUE
SCALE: 1" = 20'

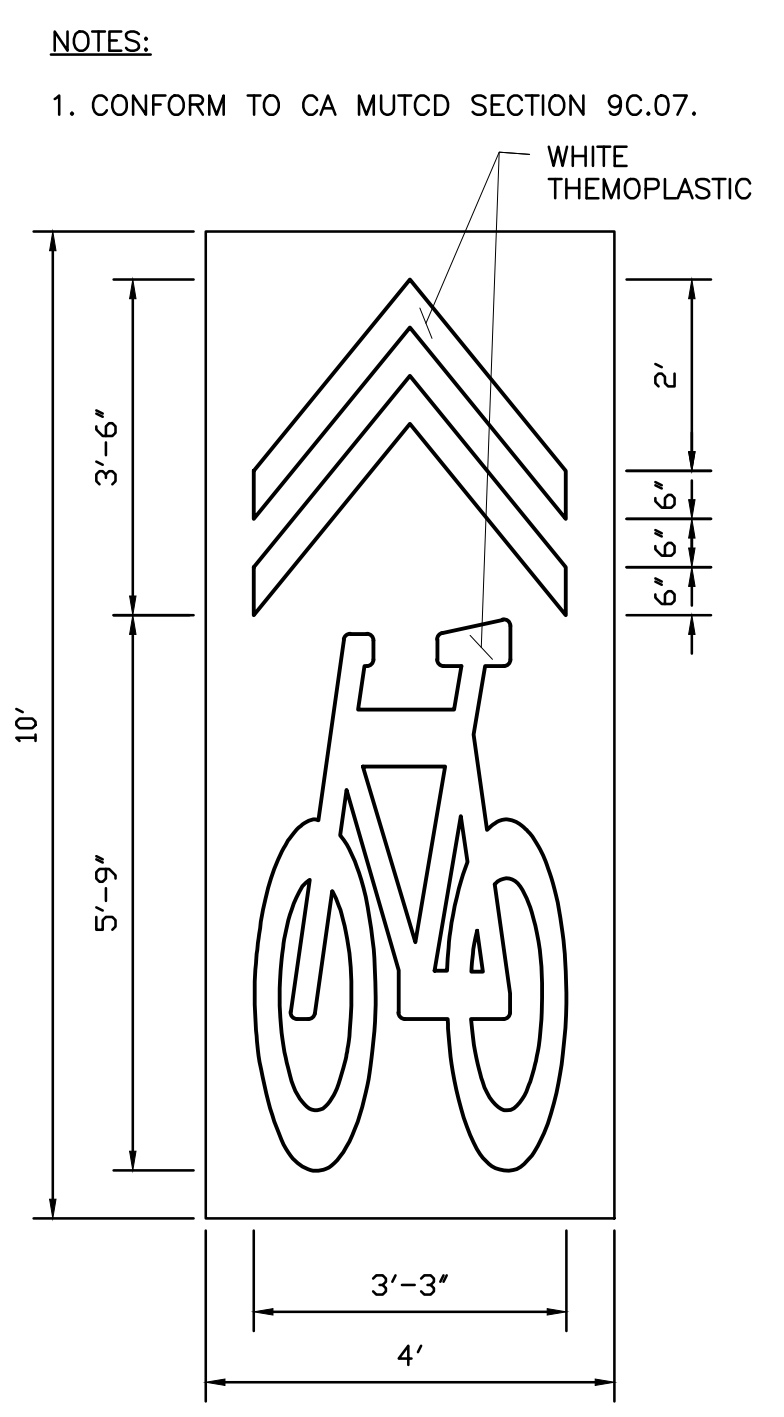


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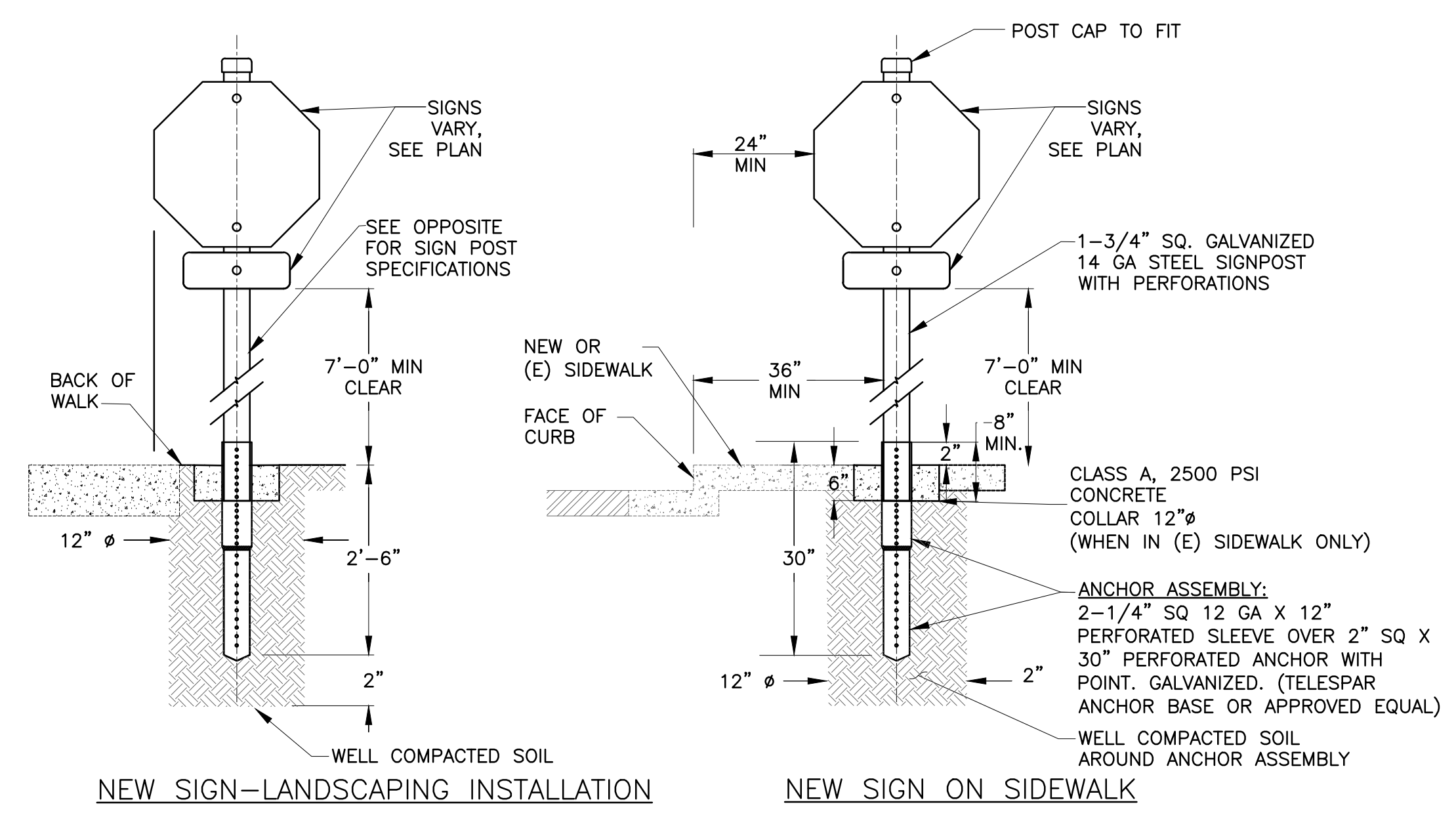
<p>DESIGNED BY: CC/KS/LL DRAWN BY: CC/JL</p> <p>NO. 1</p> <p>CONFORMED SET</p> <p>REVISIONS</p> <p>DATE 6/23/2022</p>	<p>PREPARED BY: CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599</p> <p>TITLE: SIGNING & STRIPING PLAN ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT CITY OF EAST PALO ALTO, CALIFORNIA</p> <p>SHEET 12 OF 29</p> <p>DATE: 2/14/2022 JOB NO.: CIP-ST-26</p>
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1 YIELD LINE LAYOUT
N.T.S.

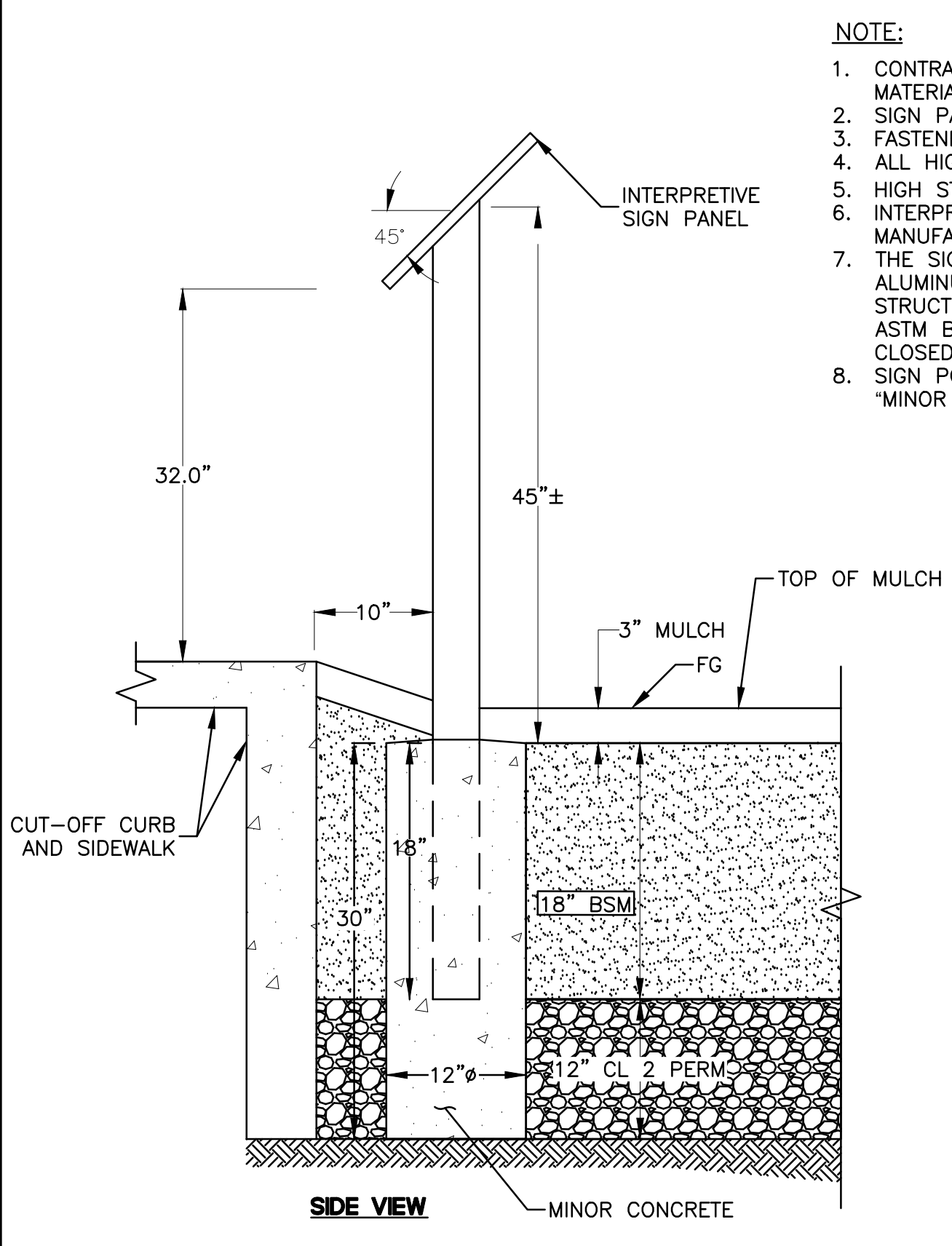


2 SHARED ROADWAY BICYCLE MARKING
N.T.S.

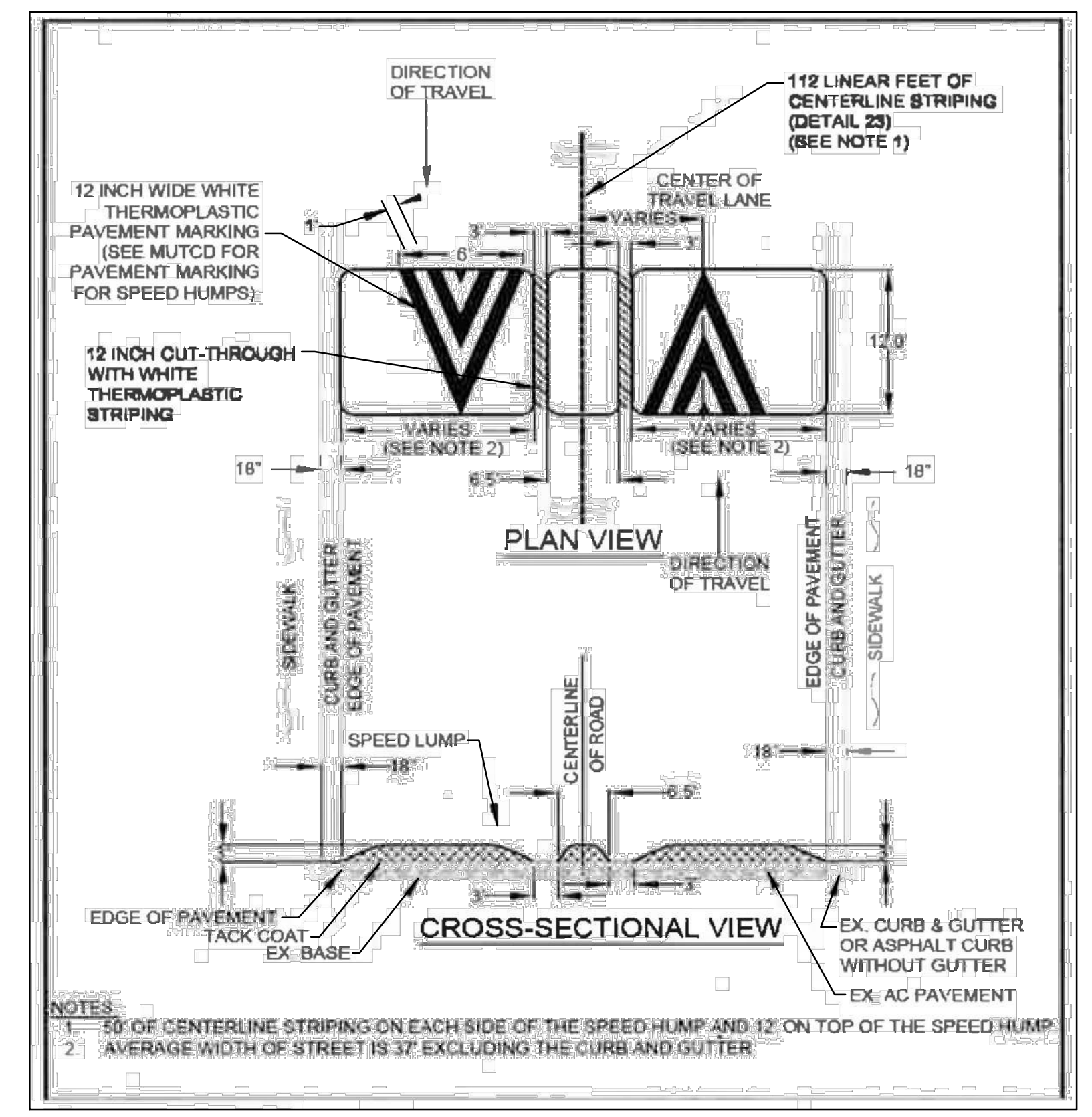


- NOTES:
- SIGNS SHALL COMPLY WITH LATEST CALIFORNIA MUTCD.
 - POST AND BASE FOR THE SIGN SHALL CONFORM TO THE SPECIFICATIONS.
 - SIGNS SHALL BE INSTALLED WITH STRAIGHT BOLTS FOR CONVENTIONAL SIGN INSTALLATION AND SQUARE POST SYSTEM CORNER-BOLTS FOR BACK TO BACK INSTALLATION, IF REQUIRED.

3 SIGN POST DETAIL
N.T.S.



4 EDUCATIONAL SIGN
N.T.S.



5 SPEED HUMP DETAIL
N.T.S.

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NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
DRAWN BY: CC/JL

CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

PREPARED BY: CSG CONSULTANTS

CONSTRUCTION DETAILS

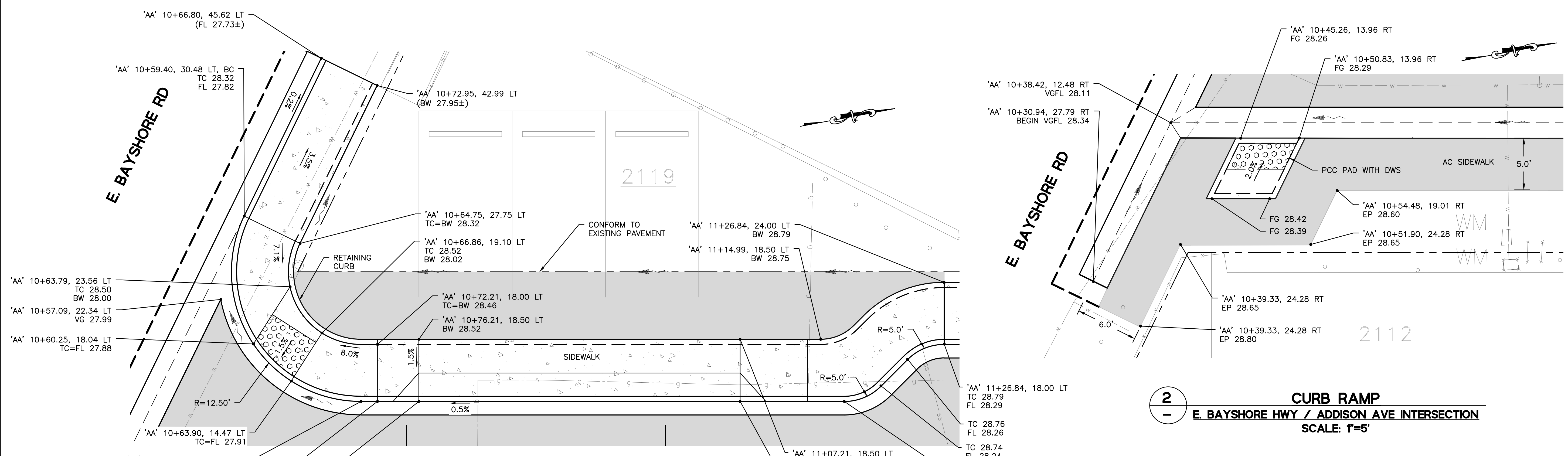
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT

CITY OF EAST PALO ALTO, CALIFORNIA

TITLE: SHEET 13 OF 29

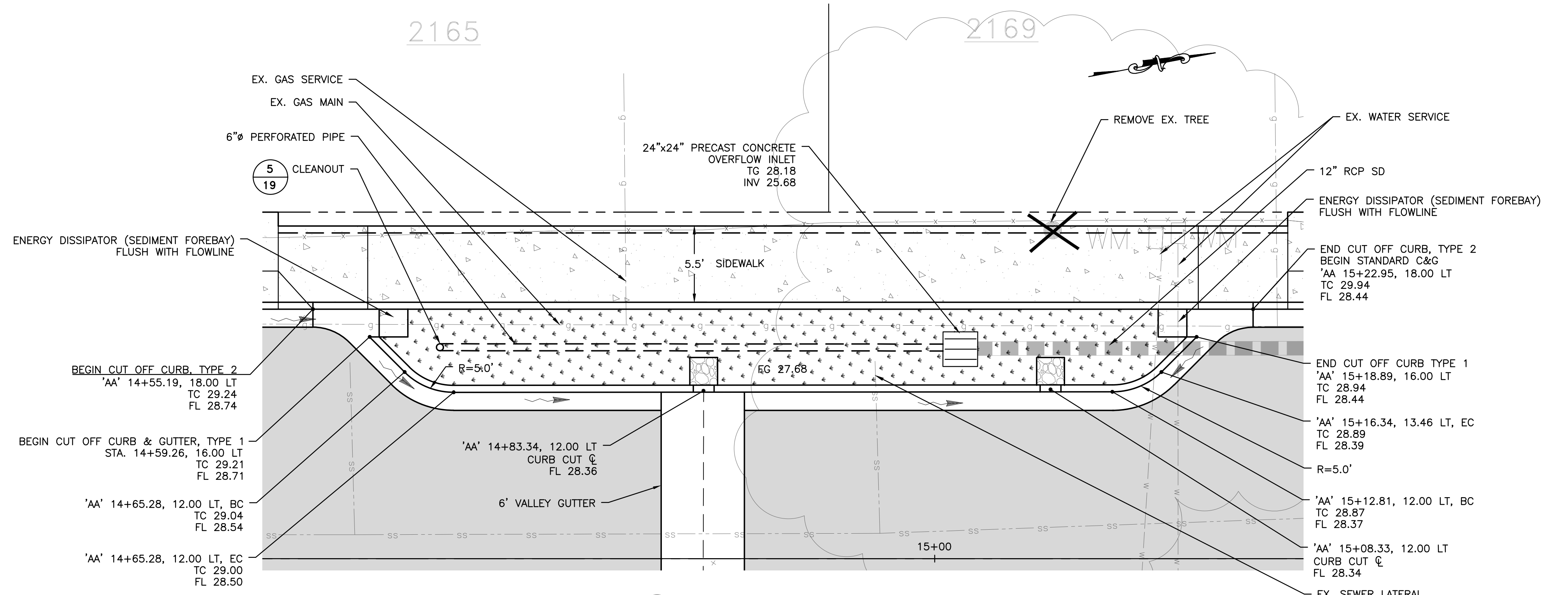
DATE: 2/14/2022
JOB NO.: CIP-ST-26

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1
—
CURB EXTENSION & RAMP
E. BAYSHORE HWY / ADDISON AVE INTERSECTION
 SCALE: 1"=5'

2
—
CURB RAMP
E. BAYSHORE HWY / ADDISON AVE INTERSECTION
 SCALE: 1"=5'



3
—
BIORETENTION AREA #1
STA. 14+55 TO 15+23
 SCALE: 1"=5'

- BIORETENTION AREA LAYOUT NOTES**
- CAD FILES MAY BE OBTAINED FROM CSG CONSULTANTS FOR ADDITIONAL HORIZONTAL CONTROL DATA NOT PRESENTED HEREON (SUCH AS ANGULAR DIMENSIONS OR BEARINGS).
 - FINISH GRADE OF BOTTOM OF BIORETENTION AREAS SHALL BE FLAT UNLESS OTHERWISE NOTED.
 - ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO SLOPE TOWARDS CENTER OF BIORETENTION AREA WITH A SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 4 ON SHEET 19.
 - 6" HDPE TUBING SUBDRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN,



NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
 DRAWN BY: CC/JL

CSG CONSULTANTS
 550 PILGRIM DRIVE
 FOSTER CITY, CA 94404
 PHONE (650)522-2500
 FAX (650)522-2599

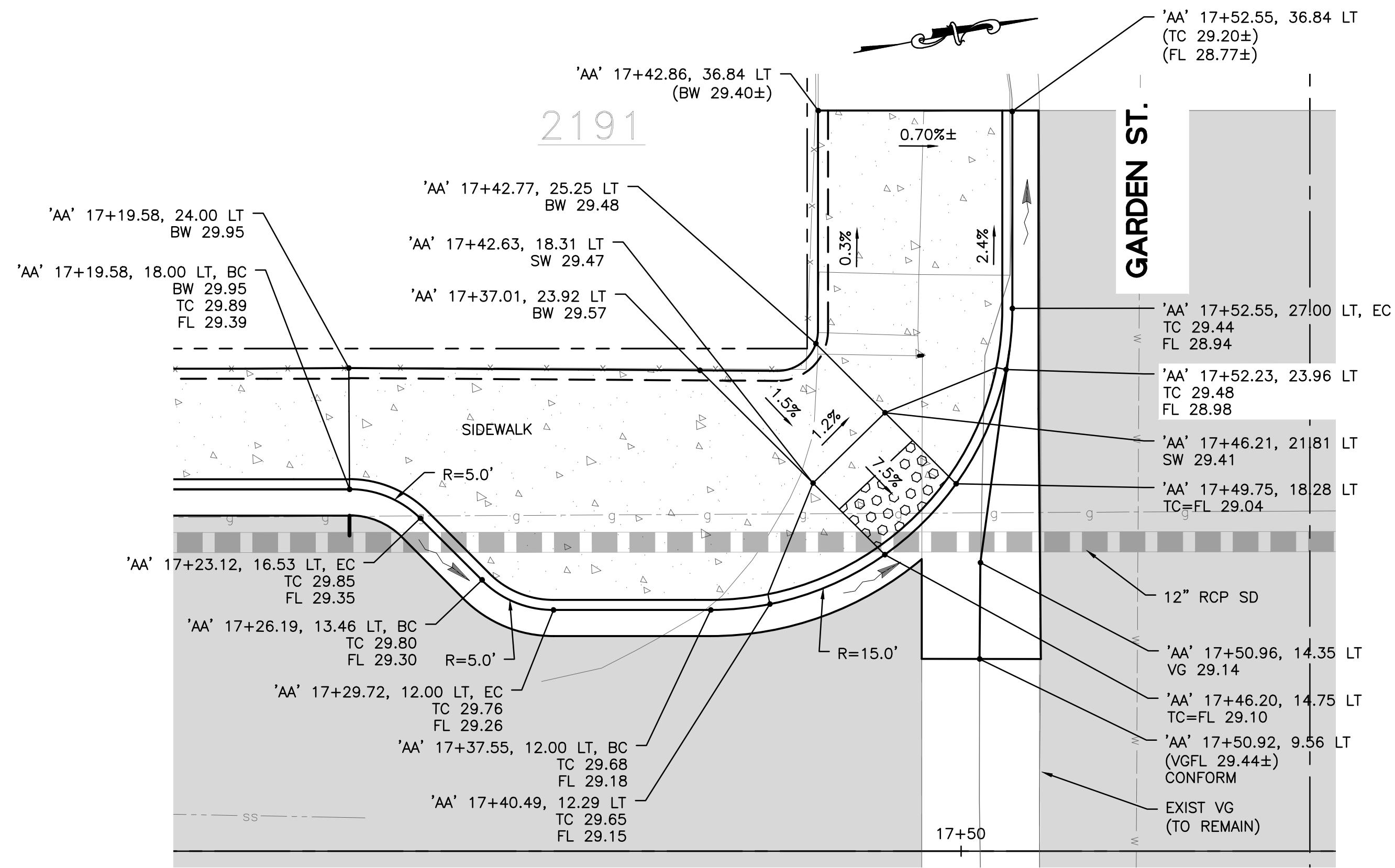
PREPARED BY:

TITLE: CURB EXTENSIONS AND BIORETENTION AREA LAYOUTS AND DETAILS
 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
 CITY OF EAST PALO ALTO, CALIFORNIA

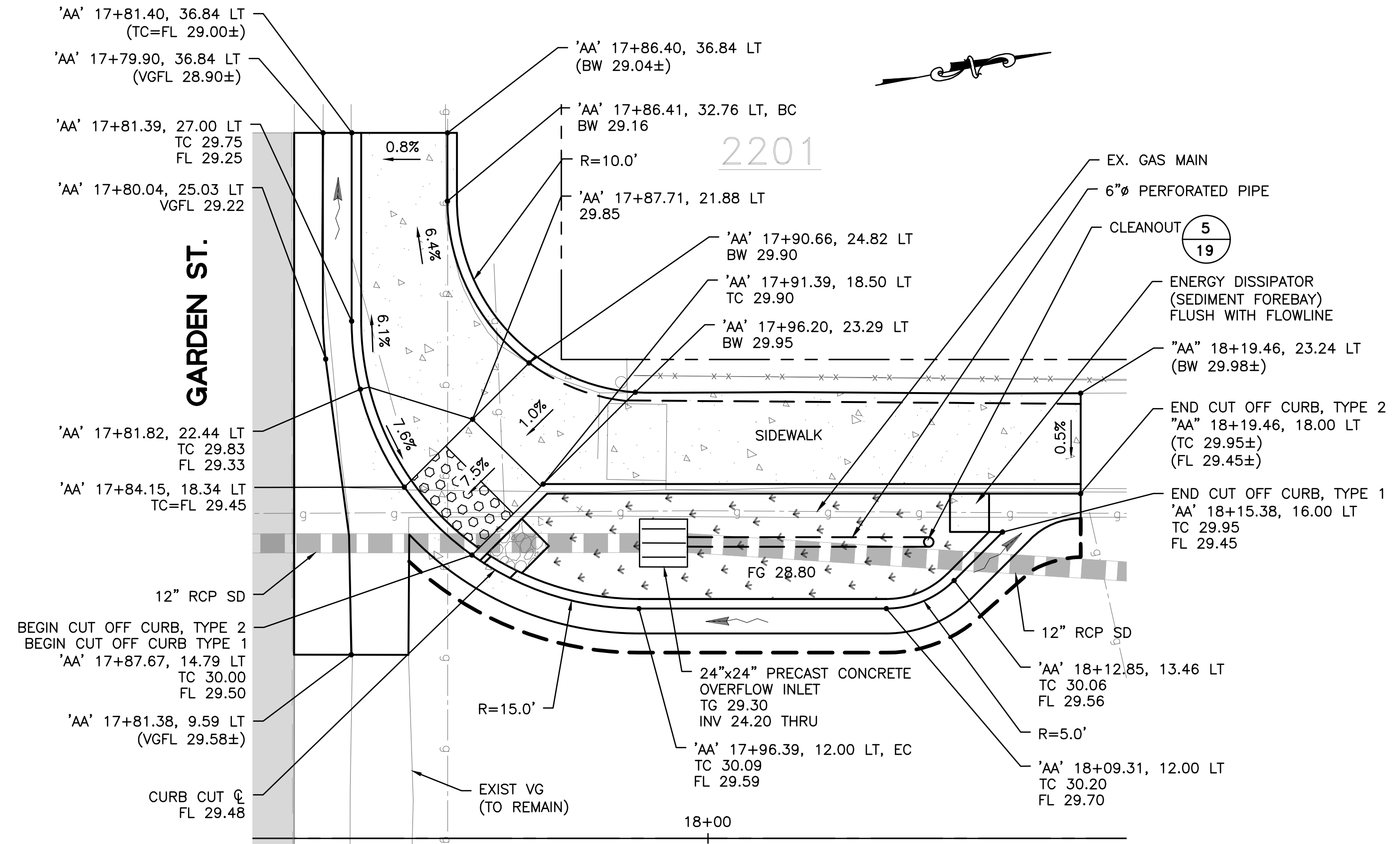
SHEET 15
 OF
29

DATE: 2/14/2022
 JOB NO.: CIP-ST-26

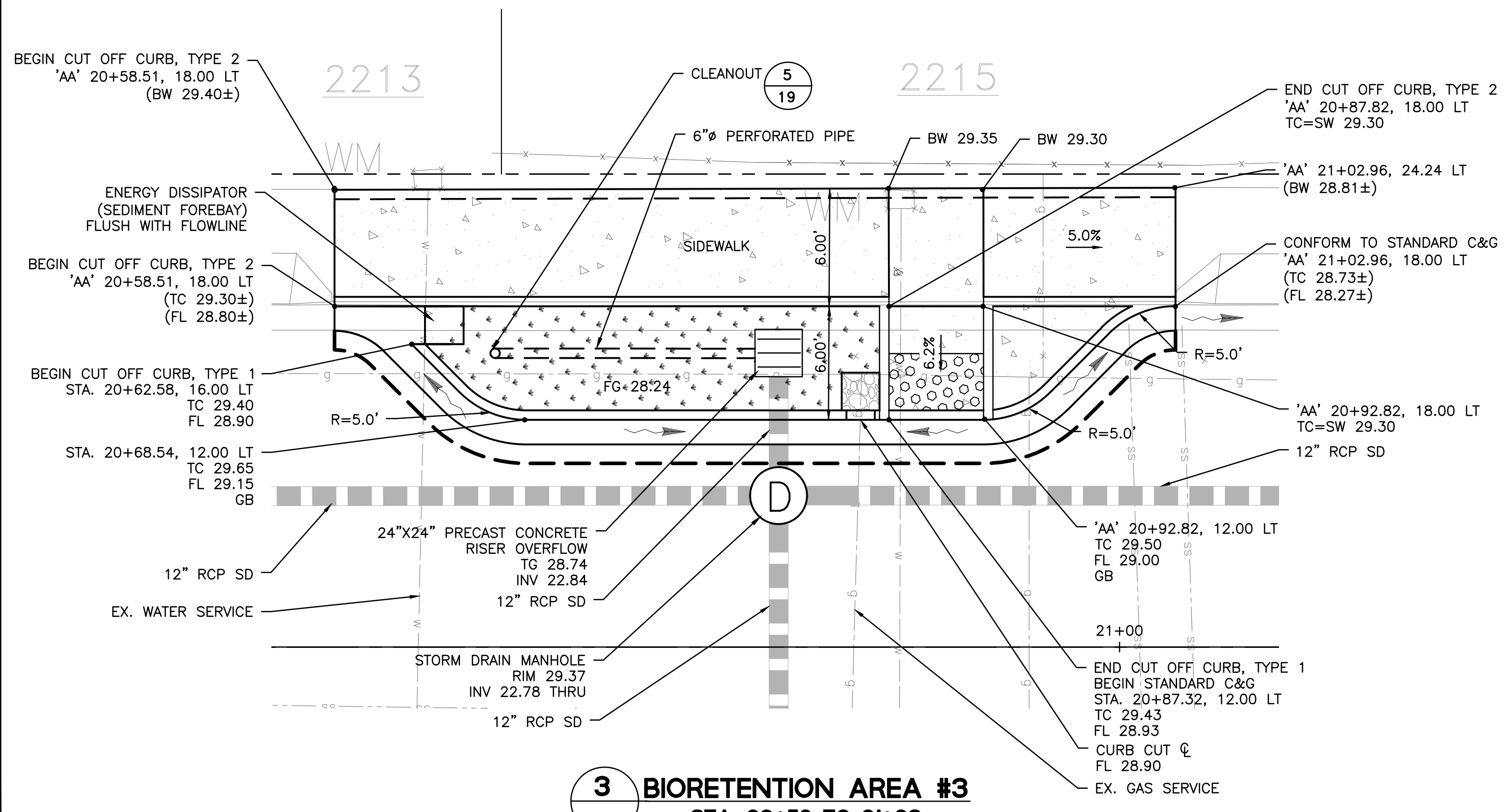




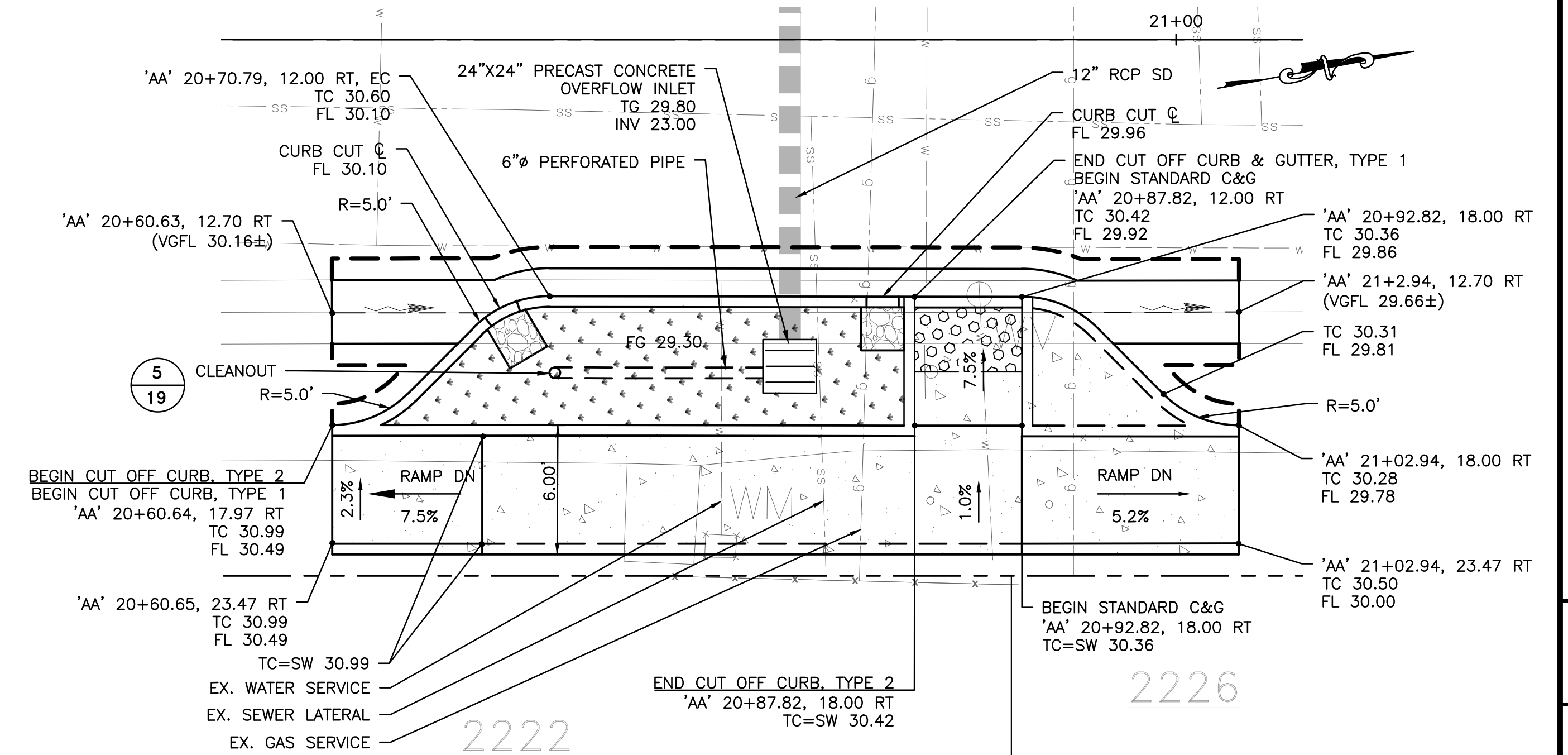
1 CURB EXTENSION & RAMP
 STA. 17+29 TO 17+53
 SCALE: 1"=5'



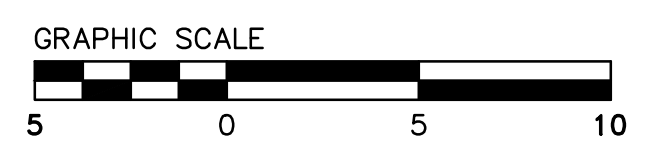
2 BIORETENTION AREA #2
 STA. 17+81 TO 18+20
 SCALE: 1"=5'



3 BIORETENTION AREA #3
 STA. 20+58 TO 21+03
 SCALE: 1"=5'



4 BIORETENTION AREA #4
 STA. 20+60 TO 21+03
 SCALE: 1"=5'



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 Plotted on: 02/11/22 © 11:58:33 AM

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

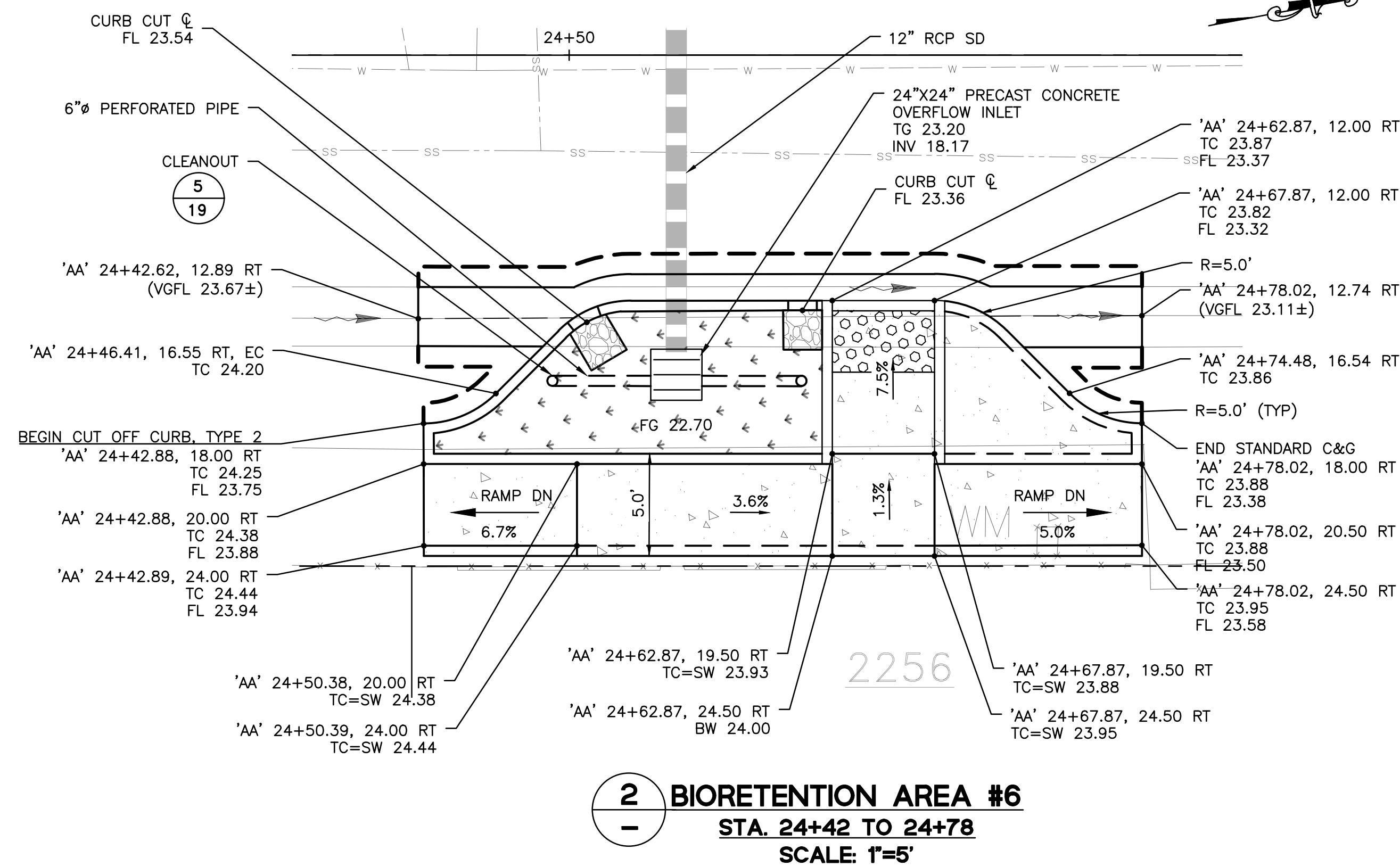
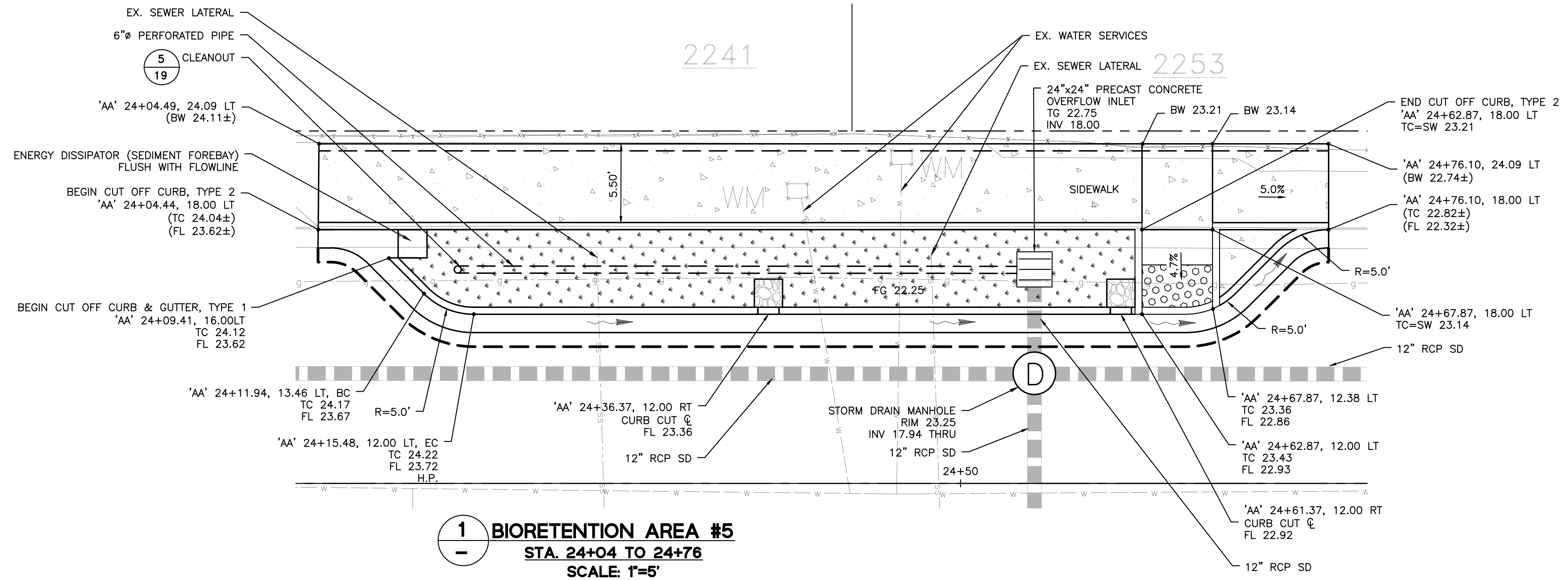
NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: CC/KS/LL
 DRAWN BY: CC/JL
 PREPARED BY: CSG CONSULTANTS
 550 PILGRIM DRIVE
 FOSTER CITY, CA 94404
 PHONE (650)522-2500
 FAX (650)522-2599

TITLE: CURB EXTENSIONS AND BIORETENTION AREA LAYOUTS AND DETAILS
 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
 CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 16
 OF
29

DATE: 2/14/2022
 JOB NO.:
 CIP-ST-26



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Plotted on: 02/11/22 © 11:58:41 AM

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

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 DRAWN BY: CC/JL

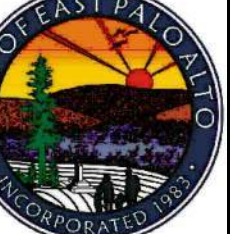
PREPARED BY: CSG CONSULTANTS
 550 PILGRIM DRIVE
 FOSTER CITY, CA 94404
 PHONE (650)522-2500
 FAX (650)522-2599



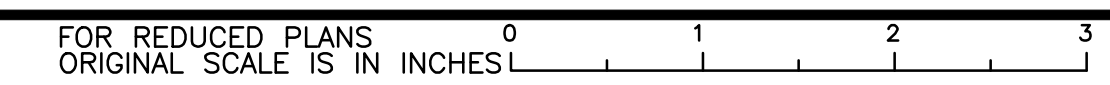
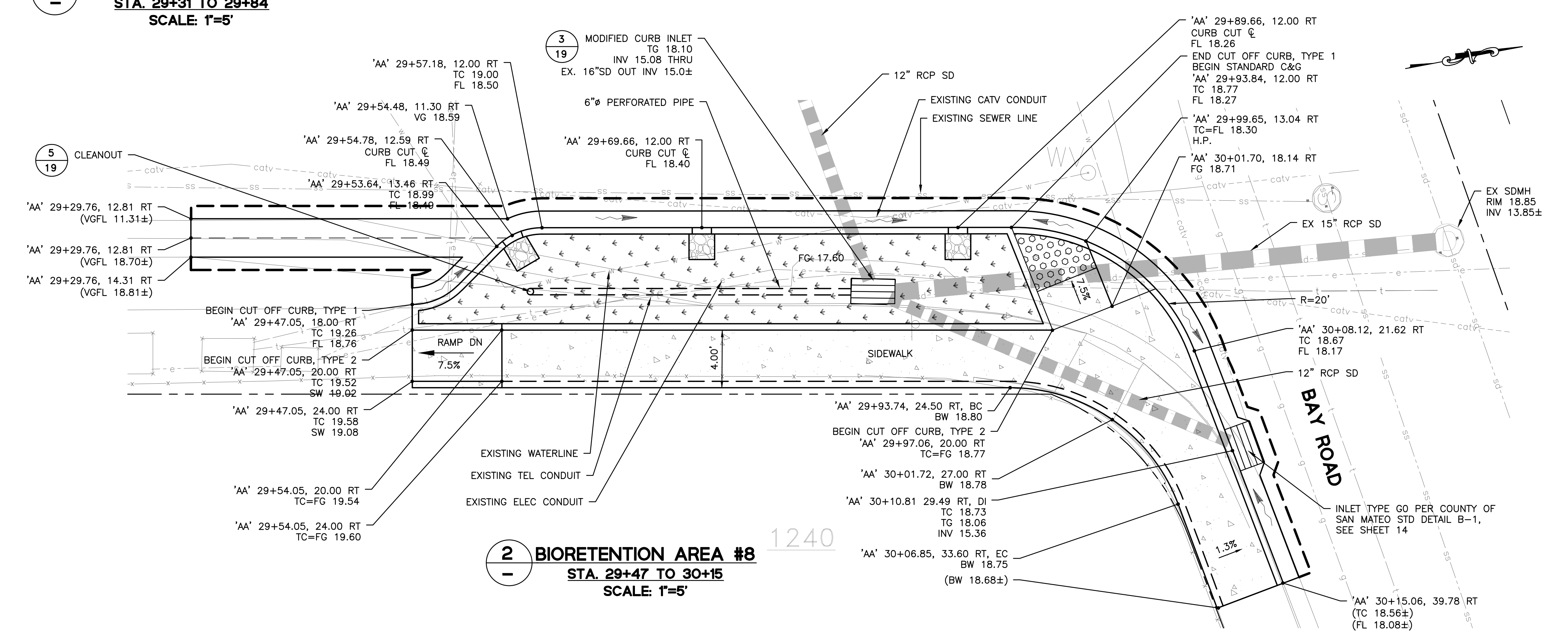
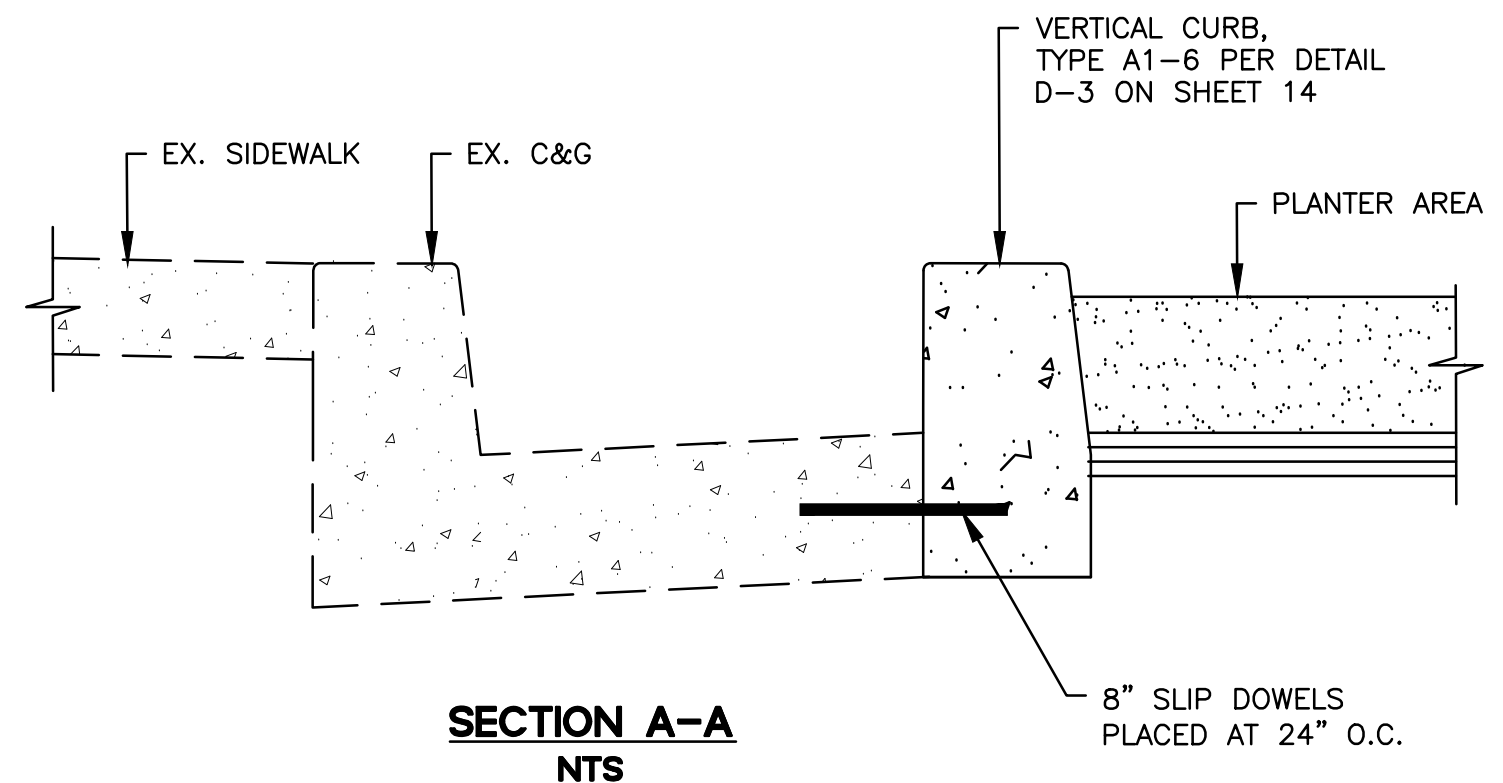
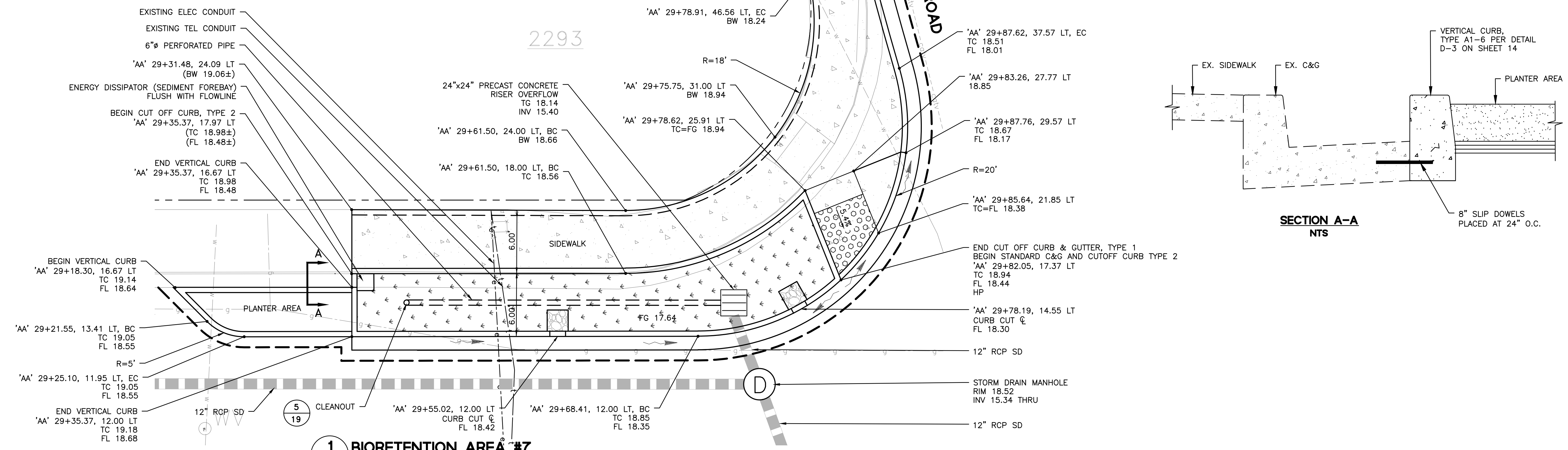
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 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
 CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 17 OF 29

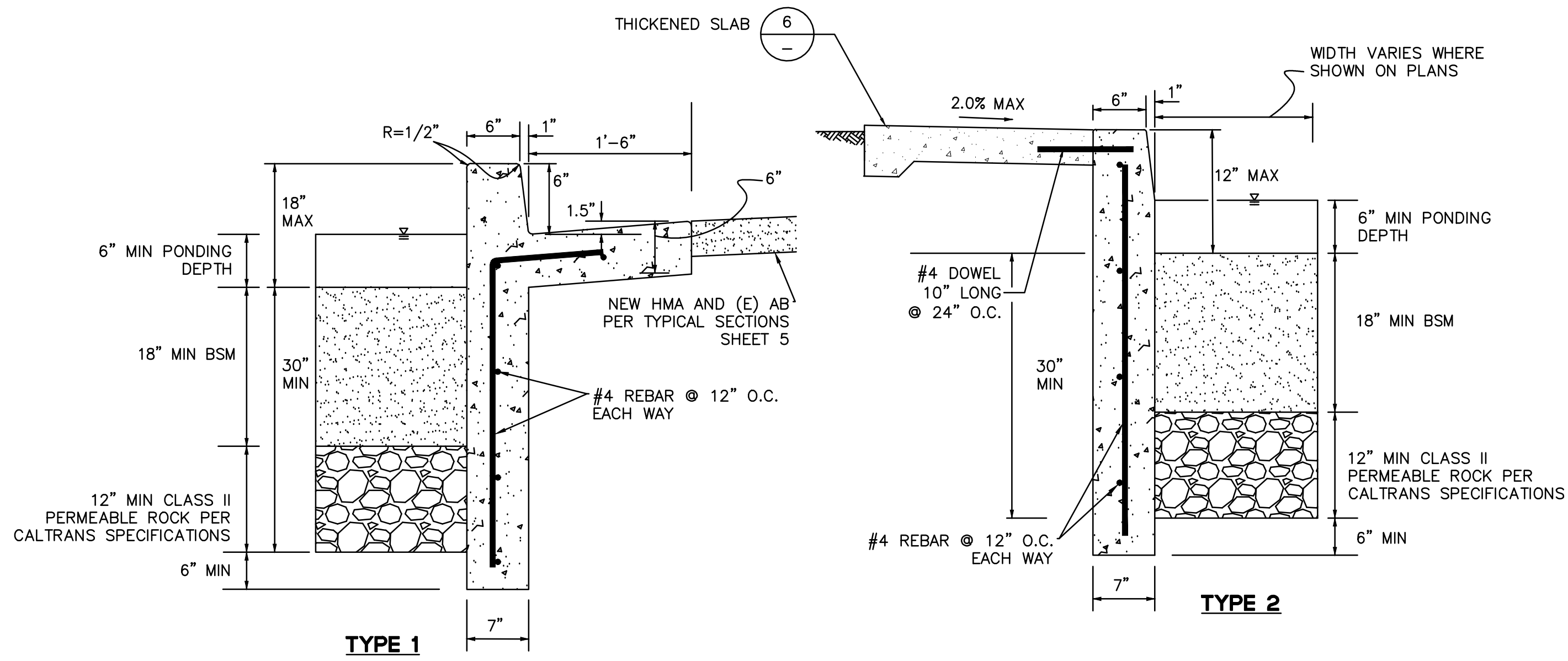
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 JOB NO.: CIP-ST-26



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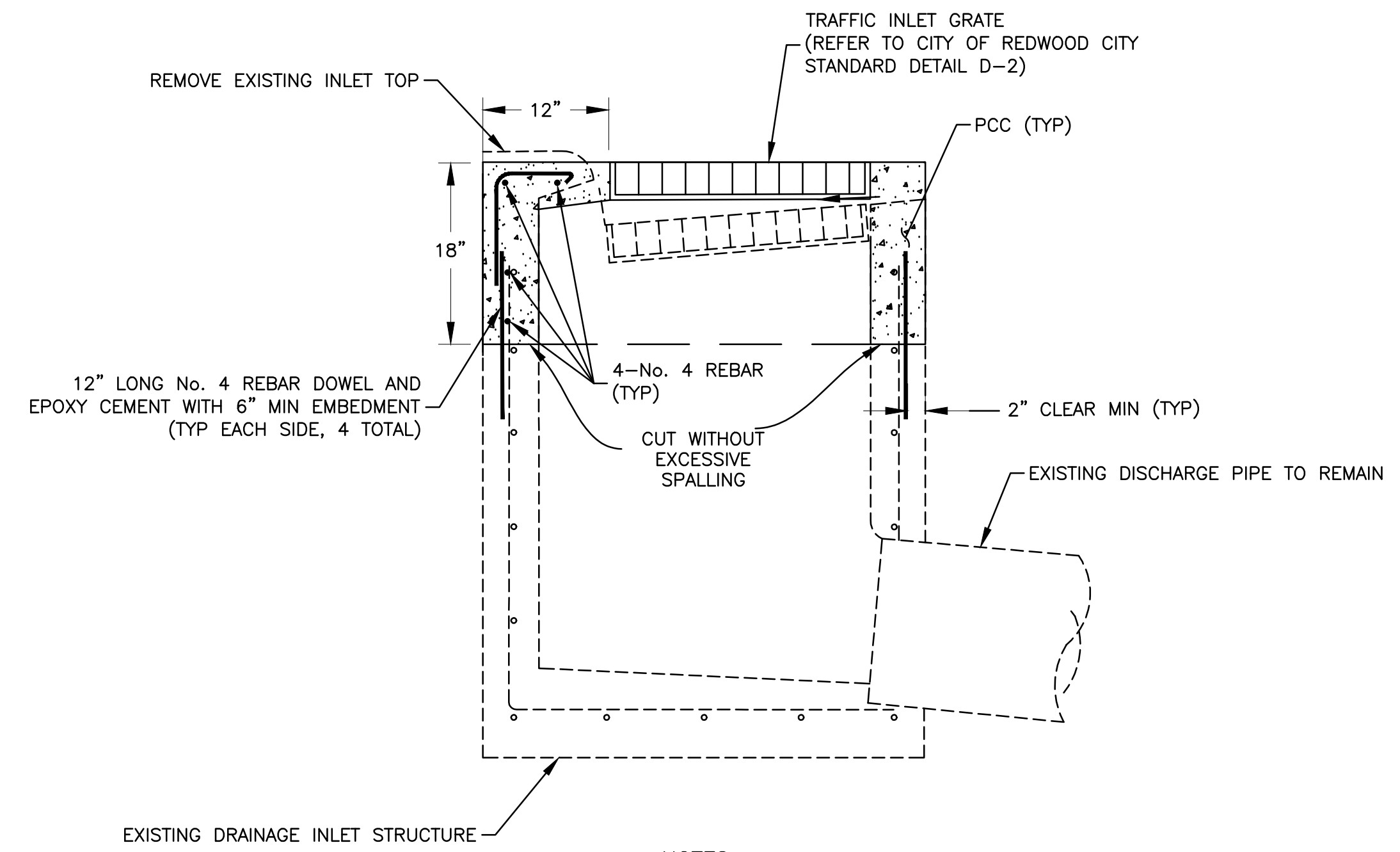


DESIGNED BY: CC/KS/LL	NO.	REVISIONS	DATE
DRAWN BY: CC/JL	1	CONFORMED SET	6/23/2022
PREPARED BY: CSG CONSULTANTS	CITY OF EAST PALO ALTO, CALIFORNIA		
TITLE: CURB EXTENSIONS AND BIORETENTION AREA LAYOUTS AND DETAILS	SHEET 18 OF 29		
DATE: 2/14/2022	JOB NO.:		
CIP-ST-26	CITY OF EAST PALO ALTO		



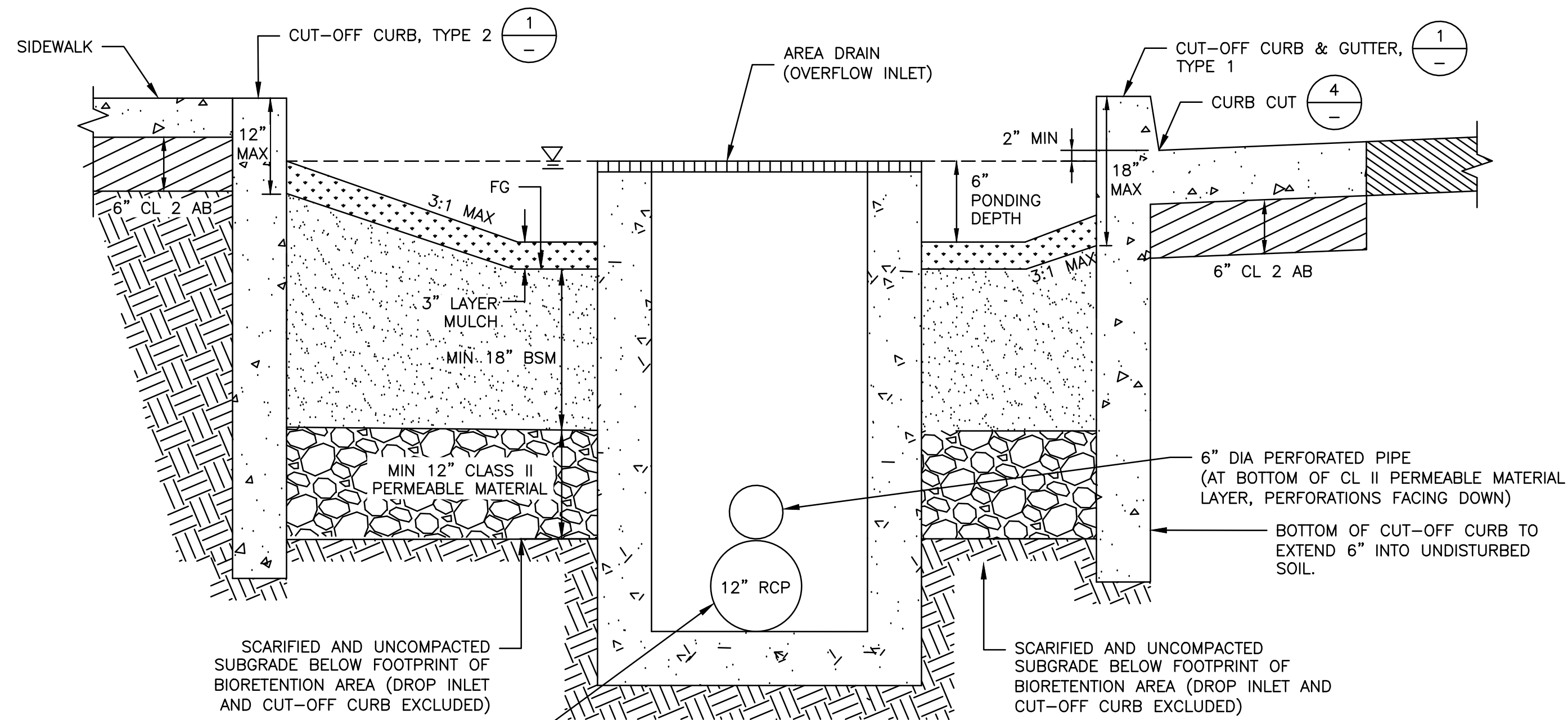
1 CUT-OFF CURBS
N.T.S.

*BSM - BIO SOIL MIX, SEE PROJECT SPECIFICATIONS



3 MODIFY CURB INLET TO OVERFLOW INLET
N.T.S.

NOTES:
1. FOR INFORMATION NOT SHOWN, REFER TO SAN MATEO COUNTY STANDARD PLAN B-1 (SEE SHEET 14).
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS DURING CONSTRUCTION.



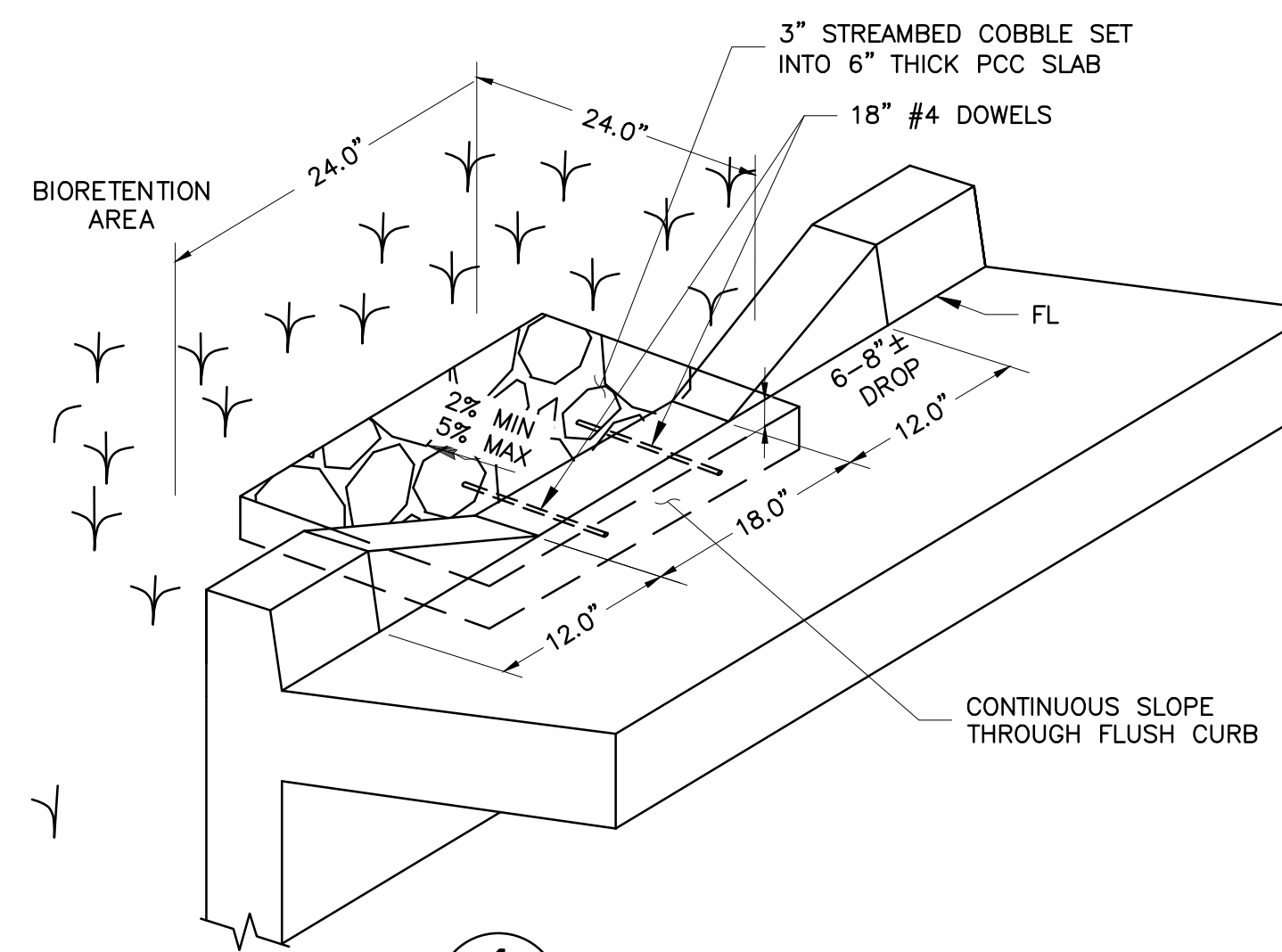
2 BIORETENTION AREA TYPICAL SECTION
N.T.S.

- NOTES:**
- PONDING DEPTH (HEIGHT OF RISER ABOVE ADJACENT FINISHED GRADE) OF ALL BIORETENTION AREA LAYOUTS SHALL BE 6".
 - BIO-SOIL MIX (BSM) SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - OVERFLOW STRUCTURE SHALL BE A CAST-IN-PLACE STRUCTURE IN-LINE WITH NEW 12" RCP SD LINE.

REFER TO PLAN AND PROFILE FOR PIPE SLOPE AND INVERT ELEVATION

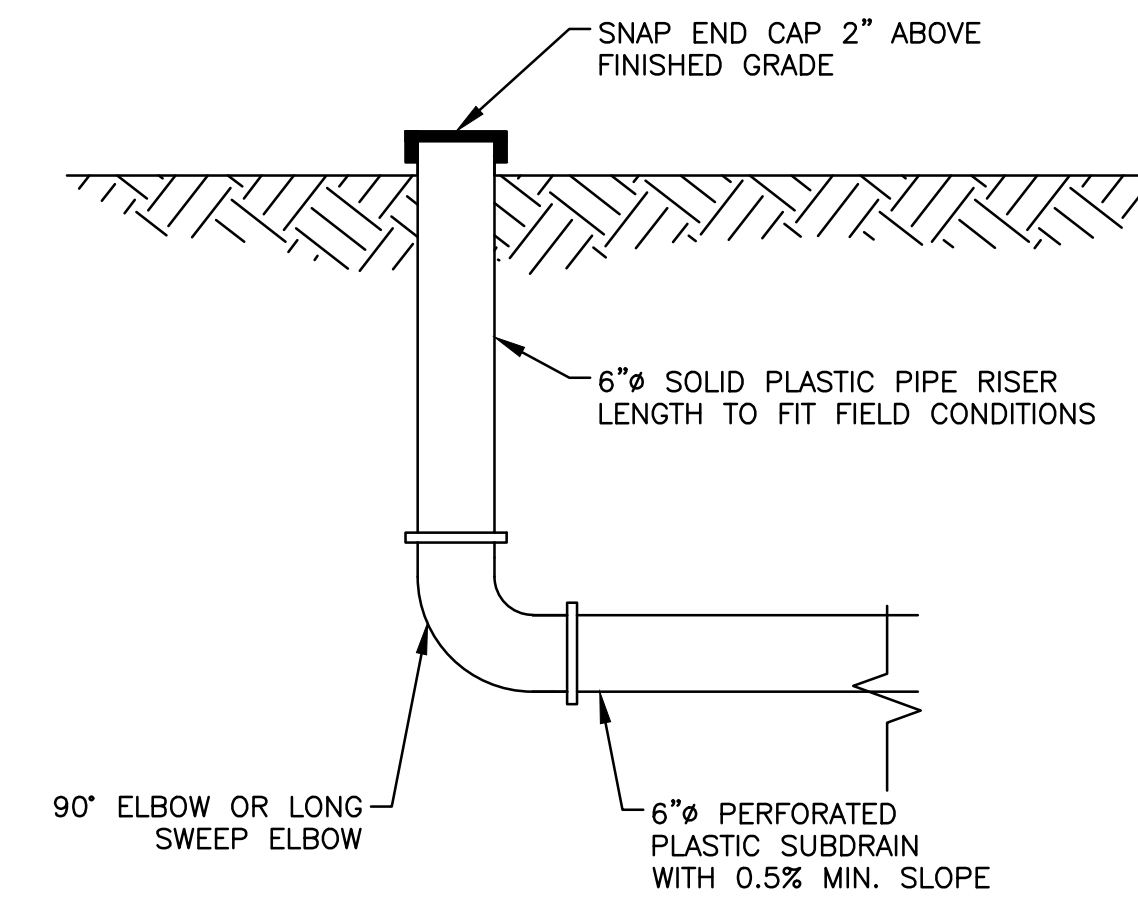
SCARIFIED AND UNCOMPACTED SUBGRADE BELOW FOOTPRINT OF BIORETENTION AREA (DROP INLET AND CUT-OFF CURB EXCLUDED)

SCARIFIED AND UNCOMPACTED SUBGRADE BELOW FOOTPRINT OF BIORETENTION AREA (DROP INLET AND CUT-OFF CURB EXCLUDED)

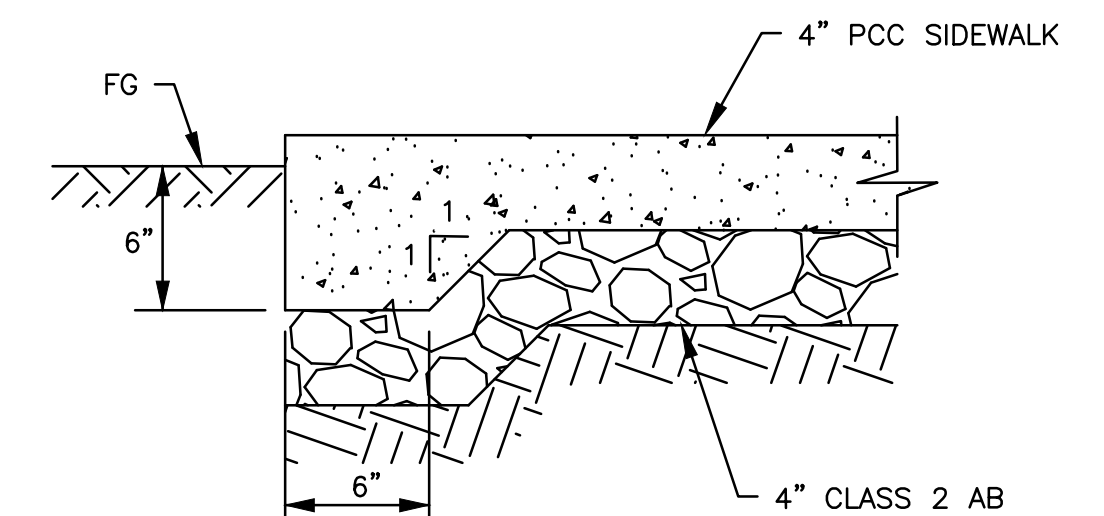


4 CURB CUT DETAIL
N.T.S.

NOTE:
ENERGY DISSIPATOR SHOWN IS FOR CURB CUTS ADJACENT TO THE BIORETENTION AREA ENTERING THROUGH SIDE. FOR LOCATIONS WHERE IN-LINE FLOW WILL ENTER THE BIORETENTION AREA, USE 6" THICK PCC SLAB SEDIMENT FOREBAY. LOCATIONS ARE SHOWN ON THE IMPROVEMENT PLANS.



5 CLEANOUT DETAIL
N.T.S.



6 THICKENED SLAB DETAIL
N.T.S.

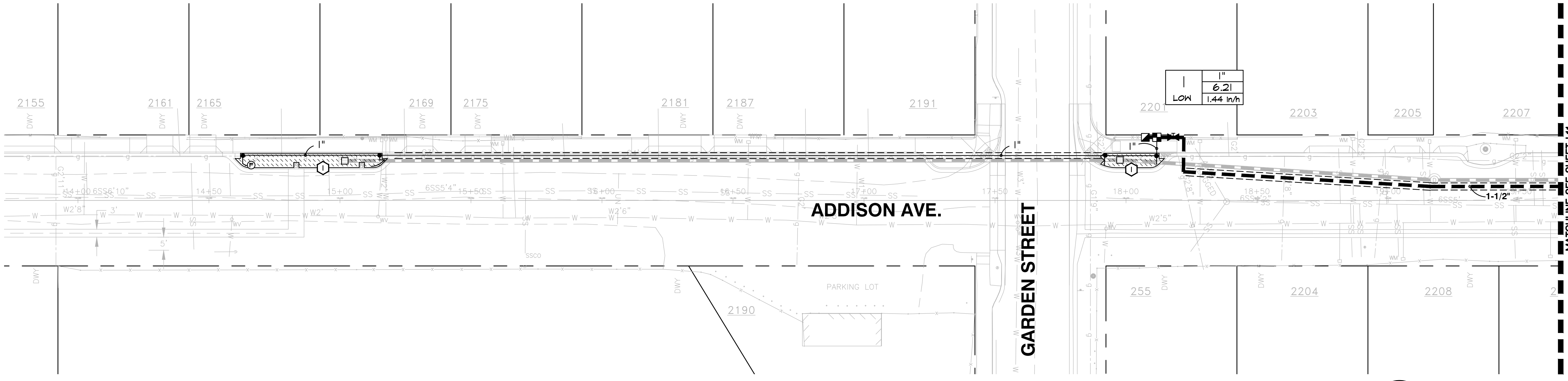
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DESIGNED BY: CC/KS/LL	REVISIONS
DRAWN BY: CC/JL	NO.
1	CONFORMED SET
1	DATE
6/23/2022	

PREPARED BY: **CSG CONSULTANTS**
 550 PILGRIM DRIVE
 FOSTER CITY, CA 94404
 PHONE (650)522-2500
 FAX (650)522-2599

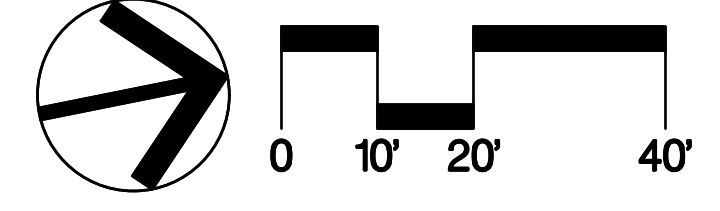
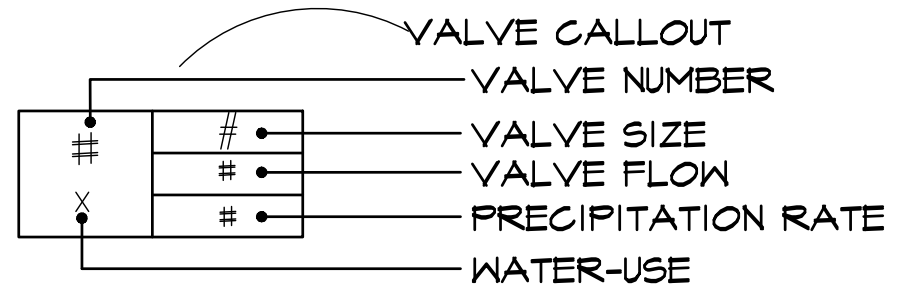
TITLE: **BIORETENTION AREA TYPICAL SECTION AND DETAILS**
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 19
 OF **29**
 DATE: 2/14/2022
 JOB NO.:
 CIP-ST-26

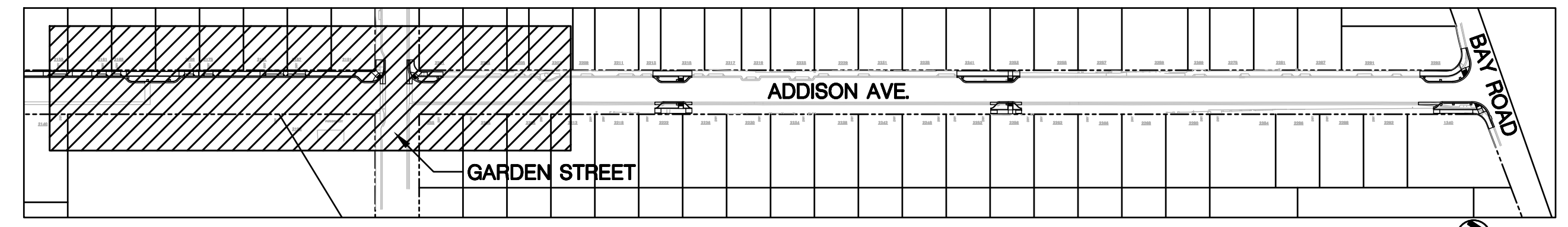


IRRIGATION LEGEND

- | SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|--------|---|
| | IN-LINE DRIP IRRIGATION, RAINBIRD XFS-CV-04-12, 0.9 GPH EMITTER FLOW AT 12-INCH EMITTER SPACING. SPACE EMITTER LINE ROWS AT 12-INCH ON CENTER. INSTALL ALL LINES AT GRADE AND COVER WITH MULCH PER PLANTING PLAN. INSTALL OPERATION INDICATOR AT FURTHEST POINT FROM VALVE, RAINBIRD, OPERIND, 1 PER VALVE IN PLANTER AREA. (3)
(L3.1) |
| | TREE BUBBLER, RAINBIRD, 1400 SERIES FLOOD, WITH 0.25 GPM BUBBLER. EACH SYMBOL REPRESENTS 2 BUBBLERS. (1)
(L3.2) |
| | DRIP CONTROL ZONE KIT, RAIN BIRD XCZ-LF-100-PRF. (1)
(L3.1) |
| | REMOTE CONTROL VALVE, RAINBIRD, PEB SERIES, SIZE PER PLAN. (4)
(L3.2) |
| | CONTROLLER, RAINMASTER, RME06EG-SPED, IN STAINLESS STEEL ENCLOSURE PEDESTAL. (1)
(L3.0) |
| | BACKFLOW PREVENTER, FEBCO 825Y, 1" SIZE. (2)
(L3.0) |
| | MASTER VALVE, SUPERIOR 3300, 1-1/2" SIZE, NORMALLY OPEN. (3)
(L3.0) |
| | FLOW SENSOR, IRRITROL, FS-10, 1" SIZE. (4)
(L3.0) |
| | WATER METER, 1" SIZE, COORDINATE INSTALLATION WITH WATER AGENCY. |
| | DRIP HEADER, SCH 40 PVC, 3/4" SIZE. (4)
(L3.1) |
| | LATERAL / HEADER CONNECTION. (4)
(L3.1) |
| | RAIN SENSOR, IRRITROL RS-1000, WIRELESS. INSTALL ON STREET LIGHT AS DIRECTED BY CITY. VERIFY WIRELESS CONNECTION TO CONTROLLER. |
| | LATERAL LINE, SCH 40 PVC, SIZE PER PLAN. (2)
(L3.1) |
| | MAINLINE, SCH 40 PVC, SIZE PER PLAN. (2)
(L3.1) |
| | SERVICE LINE, TYPE K COPPER, SIZE PER PLAN. |
| | SLEEVE, SCH 40 PVC, DIAMETER = 2X IRRIGATION PIPE DIAMETER. |
| | QUICK COUPLING VALVE, RAIN BIRD 44-LRC. (6)
(L3.0) |
| | GATE VALVE, NIBCO T-113, LINE SIZE, INSTALL IN VALVE BOX. (5)
(L3.0) |
| | MANUAL FLUSH VALVE, RAINBIRD, MDCFCAP FLUSH CAP WITH MDCFCOUP COUPLING, INSTALL AT LOW END OF DRIP HEADER LINE. (5)
(L3.1) |
| | VALVE NUMBER FOR DRIP AREA. |



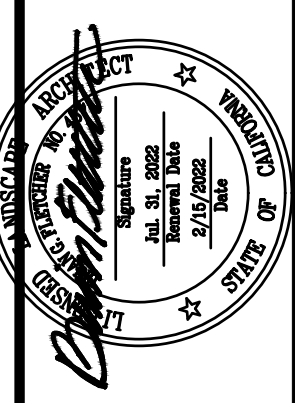
KEY MAP



**FOR IRRIGATION NOTES
SEE SHEET L1.2**

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: MR
DRAWN BY: DC

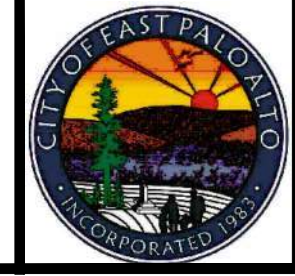


PREPARED BY: C.A.L.A.
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IRRIGATION PLAN
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

**SHEET 20
OF
29**

DATE: 02/15/2022
JOB NO.:
CIP-ST-26

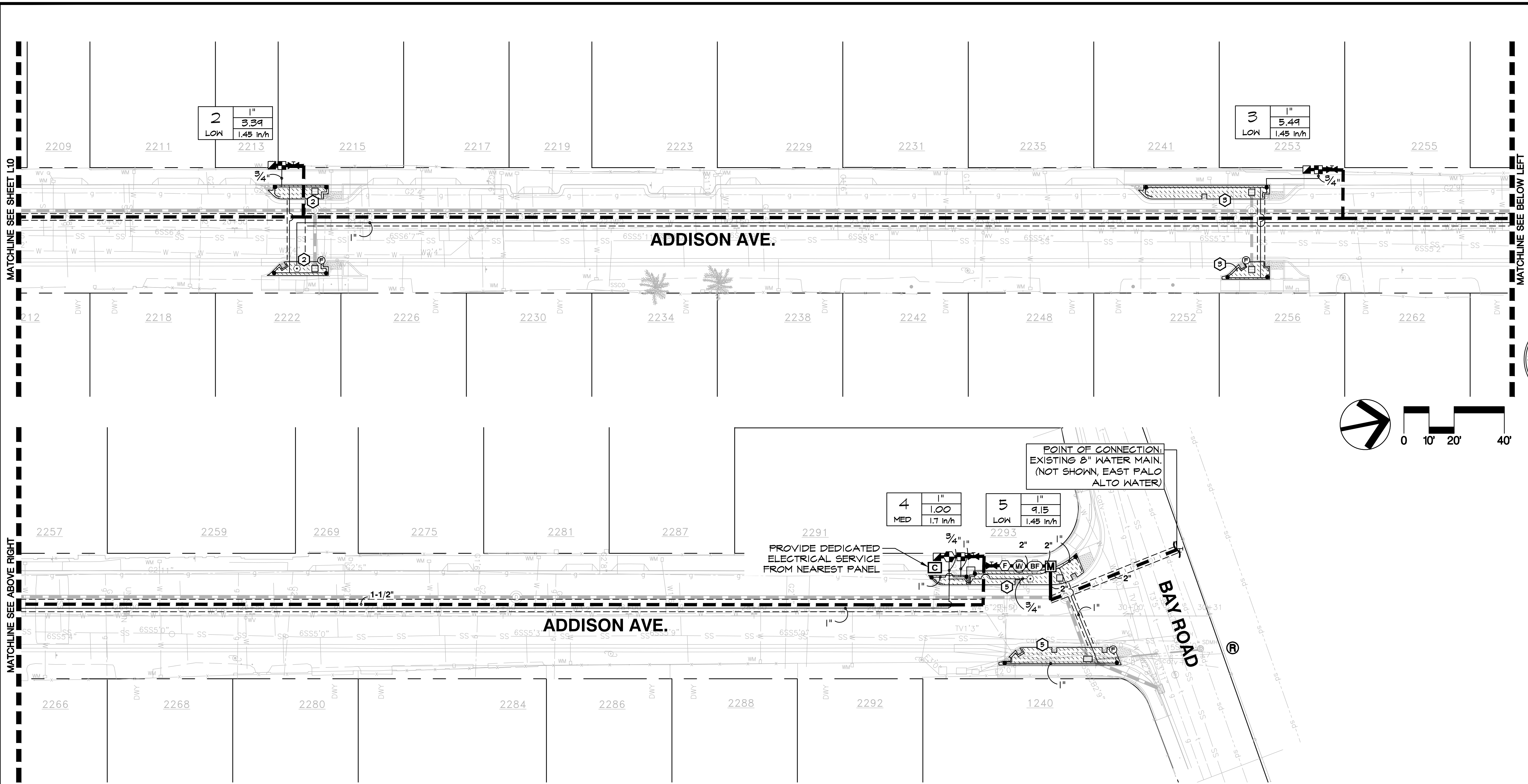


N.T.S. L1.0

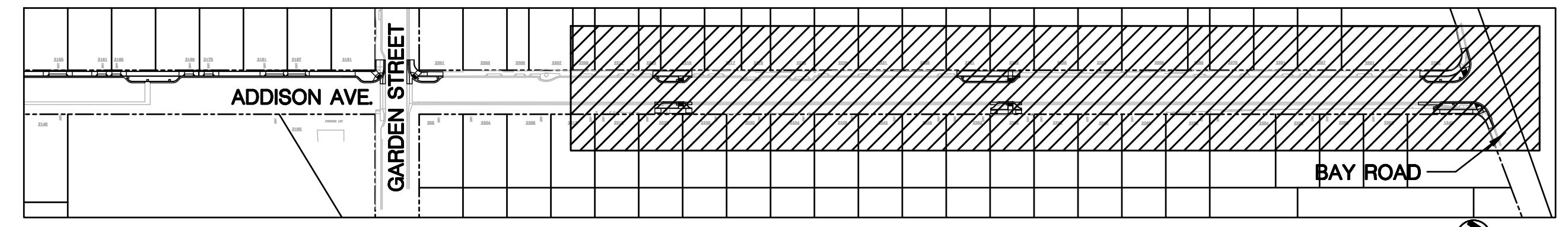
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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KEY MAP



FOR IRRIGATION LEGEND, SEE SHEET L1.0
 FOR IRRIGATION NOTES, SEE SHEET L1.2

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGNED BY:	MR
DRAWN BY:	DC
NO.	1
REVISIONS	CONFORMED SET
DATE	6/23/2022

PREPARED BY: C.A.L.A. (California Association of Landscapers and Architects)

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TITLE: IRRIGATION PLAN
 ADDISON AVENUE SAFE ROUTE TO SCHOOL
 AND GREEN STREET IMPROVEMENT PROJECT
 CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 21
 OF
 29

DATE: 02/15/2022
 JOB NO.:
 CIP-ST-26

NTS. L1.1

IRRIGATION NOTES

- SPECIFICATIONS:** SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- VERIFICATION:** SYSTEM DESIGN IS BASED ON 60 P.S.I. AND 9 G.P.M. AVAILABLE AT DISCHARGE OUTLET OF METER. VERIFY SAME AND NOTIFY CITY'S REPRESENTATIVE IF LOWER FIGURES ARE RECORDED DURING VERIFICATION. SUCH NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK.
- UTILITIES:** VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- SCHEMATIC:** SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUND COVER OR SHRUB AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED OUTSIDE OF BIO-RETENTION. VALVES IN PAVEMENT SHALL BE INSTALLED IN CONCRETE VALVE BOXES.
- CODES:** IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY CITY BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.
- SERVICE LINE:** WITH EAST PALO ALTO WATER REPRESENTATIVE PRESENT ON SITE, CONTRACTOR SHALL TAP EXISTING 8 INCH WATER MAIN AND INSTALL 2 INCH COPPER TYPE K SERVICE LINE. CONTRACTOR SHALL REPAIR ALL DAMAGES INCURRED DURING INSTALLATION AND SHALL BE RESPONSIBLE FOR ALL ASSOCIATED INSTALLATION COSTS. CONNECTION TO WATER MAIN, DEPTH OF PIPE, TRENCHING AND BACKFILLING SHALL BE PER CITY OF EAST PALO ALTO STANDARDS. CONTACT EAST PALO ALTO WATER TO COORDINATE INSTALLATION, (650) 322-2083.
- WATER METER:** EAST PALO ALTO WATER SHALL FURNISH AND INSTALL WATER METER AT LOCATION SHOWN ON PLANS, INCLUDING ALL ASSOCIATED CONNECTIONS, VAULTS, ETC. CITY OF EAST PALO ALTO SHALL PAY ALL FEES ASSOCIATED WITH WATER METER INSTALLATION.
- BACKFLOW ASSEMBLY:** CONTRACTOR SHALL CONNECT THE BACKFLOW ASSEMBLY WITH THE WATER METER USING 2" COPPER TYPE K LINE BURIED A MINIMUM OF 18 INCHES.
- SLEEVING:** ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO LAWN OR PLANTING AREA, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.
- QUICK COUPLING VALVES:** INSTALL ON TRIPLE SWING JOINT. LOCATE 12 INCHES AWAY FROM EDGE OF WALKS, WALLS, CURBS, AND HEADERBOARDS WITHIN PLANTING AREAS. PROVIDE OWNER WITH ONE OPERATING KEY, TWO SETS OF LOCKING COVER KEYS, AND ONE SWIVEL HOSE ELL.

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE 'MODEL WATER EFFICIENT LANDSCAPE ORDINANCE' AND SUBMIT A COMPLETE 'LANDSCAPE DOCUMENTATION PACKAGE' "

Brian G. Fletcher
BRIAN G. FLETCHER
SIGNATURE



Know what's below.
Call before you dig.

WATER EFFICIENT LANDSCAPE WORKSHEET

WATER EFFICIENT LANDSCAPE WORKSHEET
This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ET_o) 43.0

Hydrozone # /Planting Description ^a	Plant Factor (PF) ^f	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d	
Regular Landscape Areas								
Low Water Use Plantings	0.2	Drip	0.81	0.25	1,608	397	10,585	
Med. Water Use Trees	0.4	Drip	0.81	0.49	32	16	421	
					Totals	1,640 (A)	413 (B)	
Special Landscape Areas								
					1			
					1			
					1			
					Totals	0 (C)	0 (D)	
							ETWU Total	11,006
							Maximum Applied Water Allowance (MAWA)^g	19,675

^aHydrozone #/Planting Description
E.g. 1.) front lawn
2.) low water use plantings
3.) medium water use planting

^bIrrigation Method
overhead spray or drip

^cIrrigation Efficiency (IE)
0.75 for spray head
0.81 for drip

^dETWU (Annual Gallons Required) =
ET_o x 0.62 x ETAF x Area
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^eMAWA (Annual Gallons Allowed) =
(Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year. LA is the total landscape area in square feet (including SLA). SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

^fPlant Factor
(0.0 - 0.1) very low water use
(0.2 - 0.3) low water use
(0.4 - 0.6) medium water use
(0.7 - 1.0) high water use

ETAF Calculations

Regular Landscape Areas		
Total ETAF x Area	413	(B)
Total Area	1,640	(A)
Average ETAF	0.25	B ÷ A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas		
Total ETAF x Area	413	(B + D)
Total Area	1,640	(A + C)
Sitewide ETAF	0.25	(B + D) ÷ (A + C)

IRRIGATION SCHEDULE NOTES

- WATERING WINDOW:** THIS IRRIGATION SCHEDULE IS BASED ON AN 8 HOUR WATERING WINDOW WITH 5 DAYS OF OPERATION PER WEEK. OVERHEAD IRRIGATION SHALL BE SCHEDULED BETWEEN 8:00 PM AND 10:00 AM.
- VALVE OPERATION:** THIS SCHEDULE IS NOT A "STACKING" SCHEDULE, AND DOES NOT OUTLINE WHICH VALVES SHOULD RUN AT THE SAME TIME. ALL PROGRAMMING AND STACKING SHALL BE WITHIN THE LIMITS OF THE AVAILABLE WATER PRESSURE.
- SCHEDULE ADJUSTMENTS:** DUE TO VARIABLE AND UNFORESEEN SITE CONDITIONS, THE IRRIGATION SYSTEM RUN TIMES MAY NEED TO BE ADJUSTED TO ENSURE THAT PROPER MOISTURE IS MAINTAINED IN THE LANDSCAPE.
- PLANT ESTABLISHMENT PERIOD:** CONTRACTOR SHALL PROVIDE THE IRRIGATION SCHEDULE DURING THE PLANT ESTABLISHMENT PERIOD. INCREASE THE OPERATION RUN TIME BY AT LEAST 20% AND DAYS OF OPERATION BY AT LEAST ONE DAY PER WEEK.

IRRIGATION SCHEDULE

Valve No.	Description	Plant Water Use (WUCOLS)	Landscape Coefficient (KL)	GPM Flow	Precip Rate	Irrigation Method	Irrigation Efficiency	Landscape Coefficient (KL)	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	Shrubs	Low	0.20	6.21	1.45	Drip	0.81	0.20	Palo Alto	1.5	1.8	2.8	3.8	5.2	5.3	6.2	5.6	5	3.2	1.7	1	6.2
									% of July Eto	28%	34%	52%	74%	86%	97%	100%	95%	74%	57%	37%	28%	
									Minutes per Cycle	5	6	9	12	14	16	16	12	10	6	5		
									Days per Month	2	2	2	2	2	2	2	2	2	2	2		
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2		
2	Shrubs	Low	0.20	3.39	1.44	Drip	0.81	0.20	Minutes per Cycle	5	6	9	12	14	16	16	12	10	6	5		
									Days per Month	2	2	2	2	2	2	2	2	2	2	2		
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2		
									Total Minutes per Month	20	24	36	48	56	64	64	48	40	24	20		
									Total Gallons	124	149	224	298	348	397	397	298	248	149	124	3,155	
3	Shrubs	Low	0.20	5.49	1.45	Drip	0.81	0.20	Minutes per Cycle	4	5	8	10	12	14	13	10	8	5	4		
									Days per Month	2	2	2	2	2	2	2	2	2	2	2		
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2		
									Total Minutes per Month	16	20	32	40	48	56	56	40	32	20	16		
									Total Gallons	88	110	176	220	264	307	307	220	176	110	88	2,350	
4	Trees	Medium	0.50	1	1.7	Bubbler	0.81	0.50	Minutes per Cycle	5	6	9	12	14	16	16	12	10	6	5		
									Days per Month	2	2	2	2	2	2	2	2	2	2	2		
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2		
									Total Minutes per Month	20	24	36	48	56	64	64	48	40	24	20		
									Total Gallons	20	24	36	48	56	64	64	48	40	24	20	508	
5	Shrubs	Low	0.20	8.31	1.44	Drip	0.81	0.20	Minutes per Cycle	5	6	9	12	14	16	16	12	10	6	5		
									Days per Month	2	2	2	2	2	2	2	2	2	2	2		
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2		
									Total Minutes per Month	20	24	36	48	56	64	64	48	40	24	20		
									Total Gallons	166	199	299	399	465	532	532	399	332	199	166	4,221	
										Total Gallons Per Year												11,958

PROJECT INFORMATION

- A. DATE: SEE TITLE BLOCK
 B. PROJECT APPLICANT: CITY OF EAST PALO ALTO
 C. PROJECT ADDRESS: ADDISON AVENUE
 D. TOTAL LANDSCAPE AREA: SEE WATER EFFICIENT LANDSCAPE WORKSHEET
 E. PROJECT TYPE: PUBLIC
 F. WATER SUPPLY TYPE: POTABLE
 G. LANDSCAPE DOCUMENTATION PACKAGE CHECKLIST:
- PROJECT INFORMATION
 - WATER EFFICIENT LANDSCAPE WORKSHEET
 - SOIL MANAGEMENT REPORT
 - LANDSCAPE DESIGN PLAN (SEE SHEET L2.0-L2.2)
 - IRRIGATION DESIGN PLAN (SEE SHEET LI.0-LI.1)
 - GRADING DESIGN (SEE SHEET 7 TO 10)
 - *CERTIFICATE OF COMPLETION
 - *CERTIFICATE OF INSTALLATION
 - IRRIGATION SCHEDULE
 - *MAINTENANCE SCHEDULE
 - **LANDSCAPE IRRIGATION AUDIT

*CONTRACTOR SHALL FURNISH UPON PROJECT COMPLETION AND IS RESPONSIBLE TO PAY FOR ALL ASSOCIATED FEES

*CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF IRRIGATION AUDIT BY THE LOCAL AGENCY OR A THIRD PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR. LANDSCAPE AUDITS SHALL NOT BE CONDUCTED BY THE PERSON WHO DESIGNED THE LANDSCAPE OR INSTALLED THE LANDSCAPE.

H. PROJECT CONTACTS:

OWNER:
CITY OF EAST PALO ALTO
PUBLIC WORKS
1960 TATE STREET
EAST PALO ALTO, CA 94303
PHONE: (650) 853-3189
FAX: (650) 853-3179

LANDSCAPE ARCHITECT:
CALLANDER ASSOCIATES
BRIAN G. FLETCHER
1633 BAYSHORE HIGHWAY, SUITE 133
BURLINGAME, CA 94010
PHONE: (650) 375-1313
FAX: (650) 344-3290

LANDSCAPE DOCUMENTATION NOTES

- CERTIFICATION OF COMPLETION:** LANDSCAPE DOCUMENTATION SHALL MEET THE REQUIREMENTS DESCRIBED IN THE CITY OF EAST PALO ALTO CODE OF ORDINANCES, CHAPTER 17.06 - WATER CONSERVATION IN LANDSCAPING ORDINANCE. REFER TO SECTION 17.06.120 FOR CERTIFICATE OF COMPLETION REQUIREMENTS.
- IRRIGATION PLAN CONTROLLER COPY:** THE CONTRACTOR SHALL PLACE A LAMINATED COPY OF THE IRRIGATION PLAN SHOWING THE HYDROZONES WITHIN THE IRRIGATION CONTROLLER(S) CABINET FOR FUTURE MANAGEMENT USE.

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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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DESIGNED BY: MR
DRAWN BY: DC

NO. 1
CONFORMED SET

REVISIONS

DATE: 6/23/2022

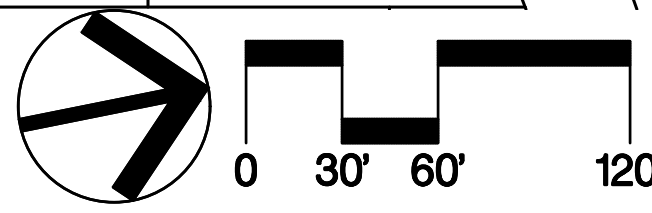
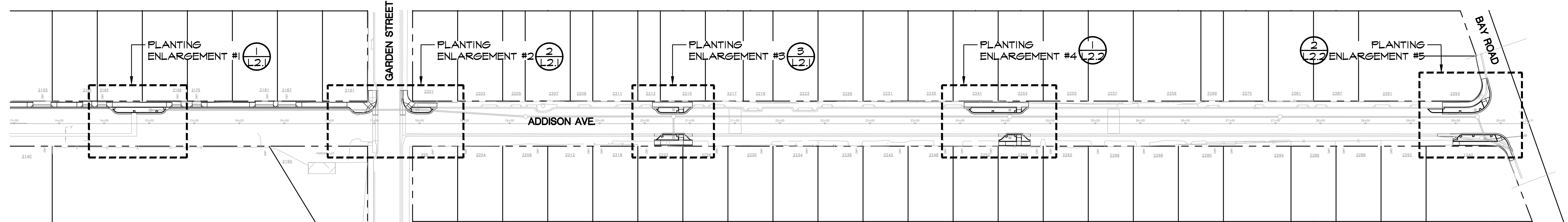
PREPARED BY: C.A.L.A.

TITLE: LANDSCAPE DOCUMENTATION
ADDISON AVENUE, SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

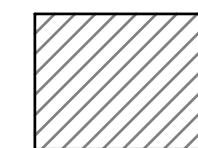
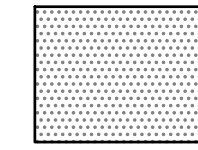
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JOB NO.:
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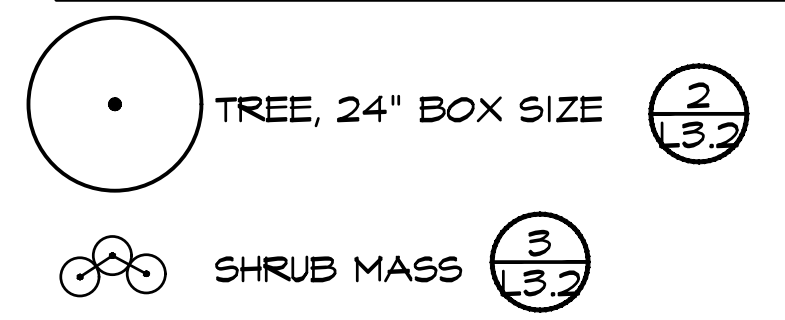
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PLANT LIST

TREES	BOTANICAL / COMMON NAME	SIZE	MUCOLS	SPACING:
ACE NEG	ACER NEGUNDO / BOX ELDER	24" BOX	MED	AS SHOWN
SHRUBS	BOTANICAL / COMMON NAME	SIZE	MUCOLS	SPACING
ACH MIL	ACHILLEA MILLEFOLIUM / COMMON YARROW	1 GAL	LOW	AS SHOWN
GRI HIR	GRINDELIA HIRSUTULA / GUMNEED	1 GAL	LOW	AS SHOWN
MIM AUR	MIMULUS AURANTIACUS / STICKY MONKEYFLOWER	1 GAL	V LOW	AS SHOWN
MON VIL	MONARDELLA VILLOSA / COYOTE MINT	1 GAL	V LOW	AS SHOWN
SIS YEL	SISYRINCHIUM CALIFORNICUM / YELLOW EYED GRASS	1 GAL	MED	12" o.c.
SYM CHI	SYMPHYOTRICHUM CHILENSE / PACIFIC ASTER	1 GAL	LOW	AS SHOWN
GRASSES	BOTANICAL / COMMON NAME	SIZE	MUCOLS	SPACING
	DESCHAMPSIA GESPITOSA HOLCIFORMIS / CALIFORNIA HAIR GRASS	1 GAL	LOW	24" o.c.
	JUNCUS PATENS / COMMON RUSH	1 GAL	LOW	30" o.c.

PLANT LEGEND

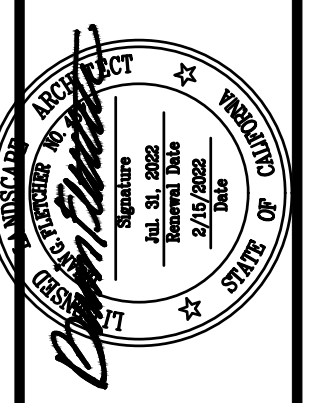


PLANTING NOTES

- MULCH:** INSTALL A UNIFORM THREE INCH COVERING OF MULCH IN ALL PLANTING AREAS, PER SPECIFICATIONS.
- GROUNDCOVER:** PROVIDE GROUNDCOVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL AREAS TO BE PLANTED. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS.
- QUANTITIES:** THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: MR
DRAWN BY: DC



PREPARED BY: C.A.L.A.
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1 650.375.1919
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TITLE: **PLANTING PLAN**
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 23
OF
29

DATE: 02/15/2022
JOB NO.: CIP-ST-26

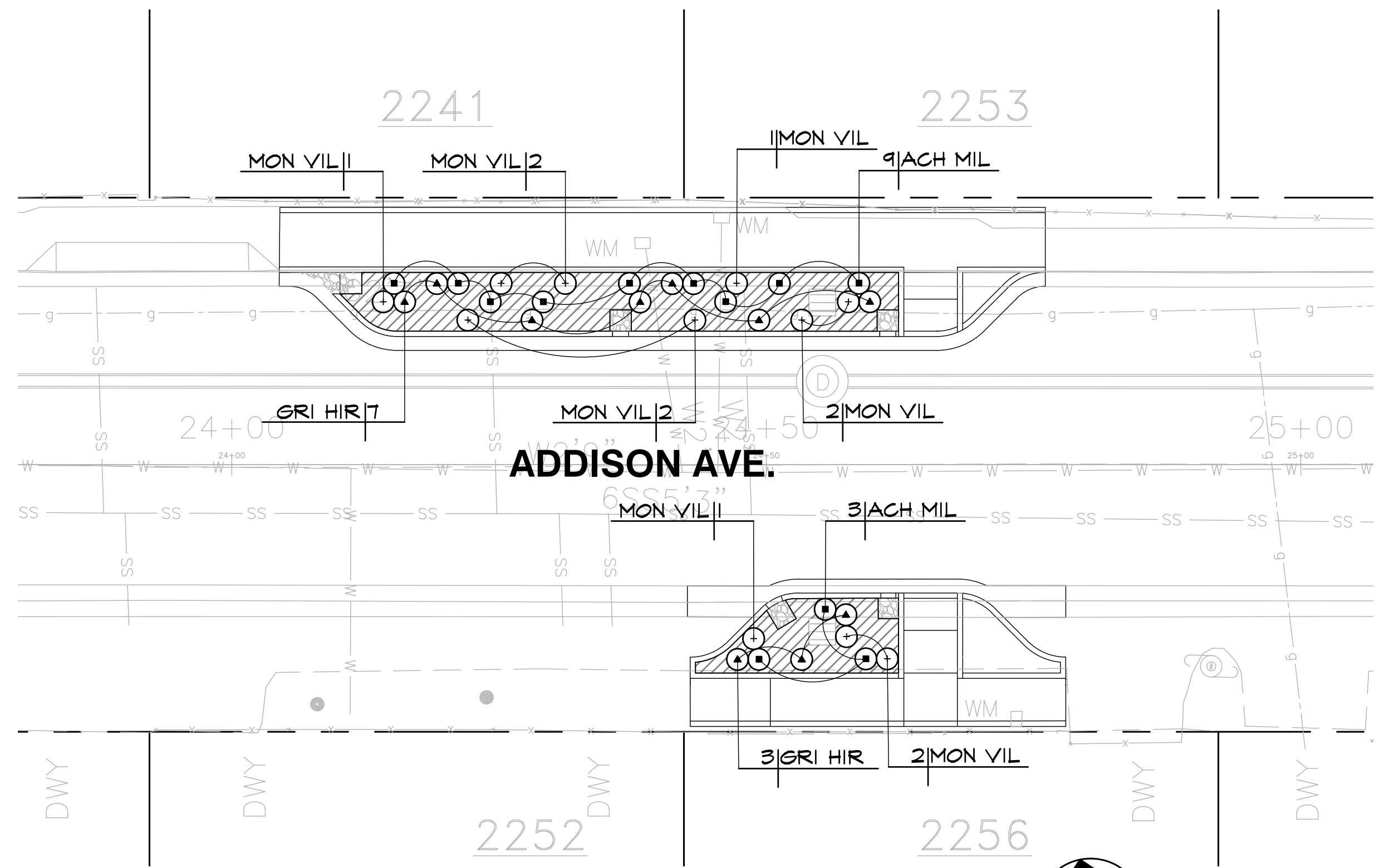


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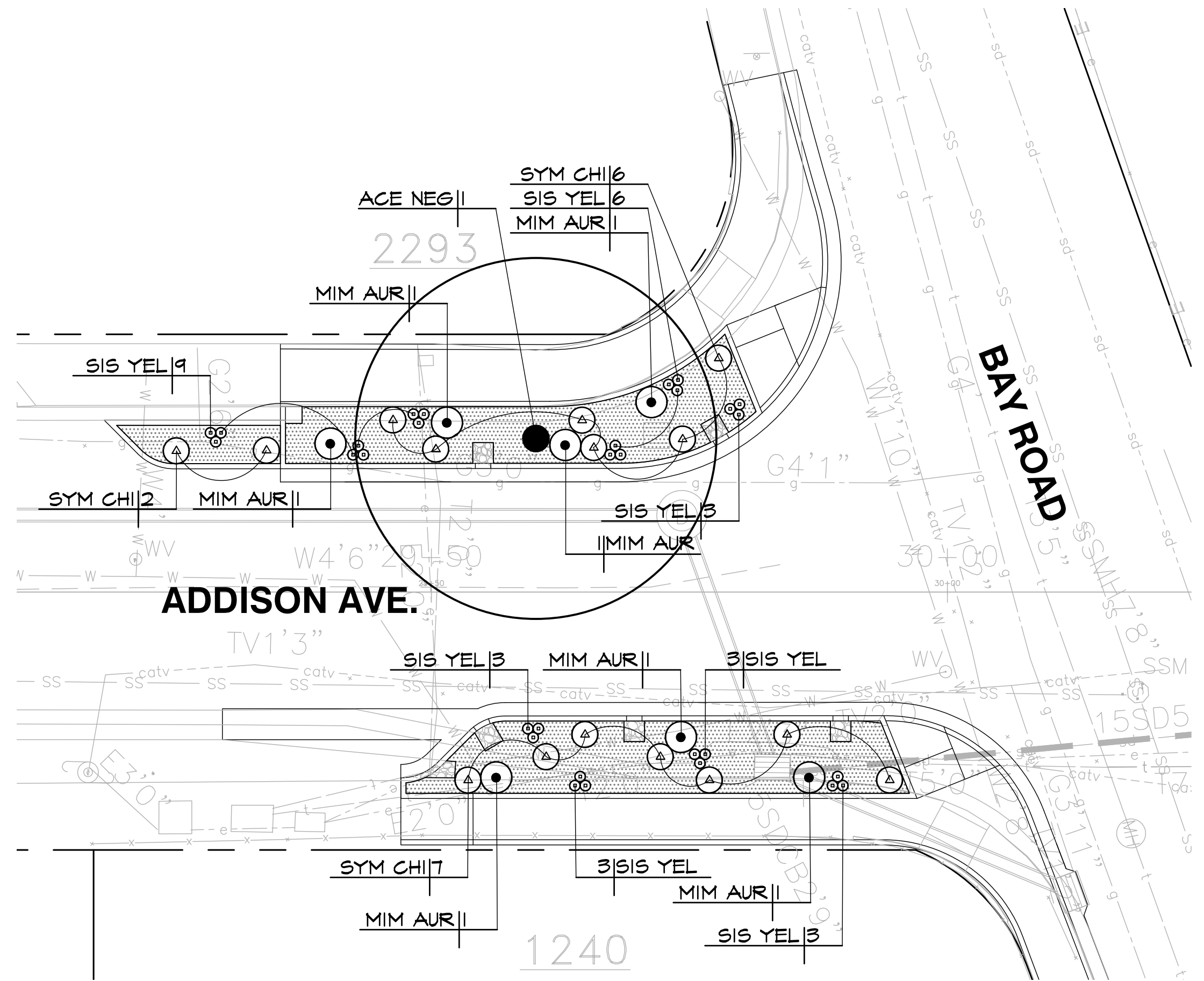
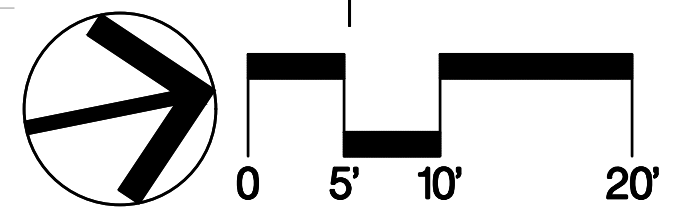


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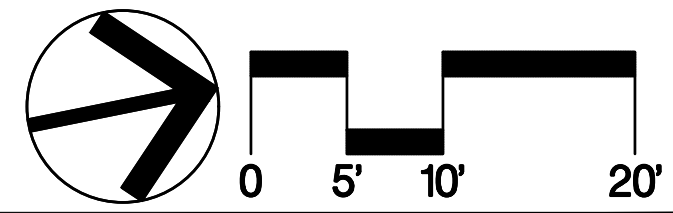
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1
L2.2 PLANTING ENLARGEMENT #4
PLAN



2
L2.2 PLANTING ENLARGEMENT #5
PLAN



Know what's below.
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FOR PLANTING LEGEND AND NOTES
SEE SHEET L2.0

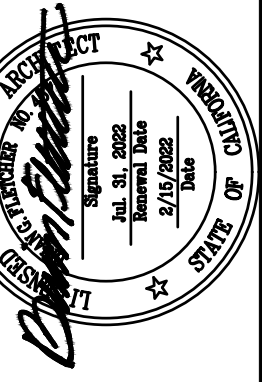
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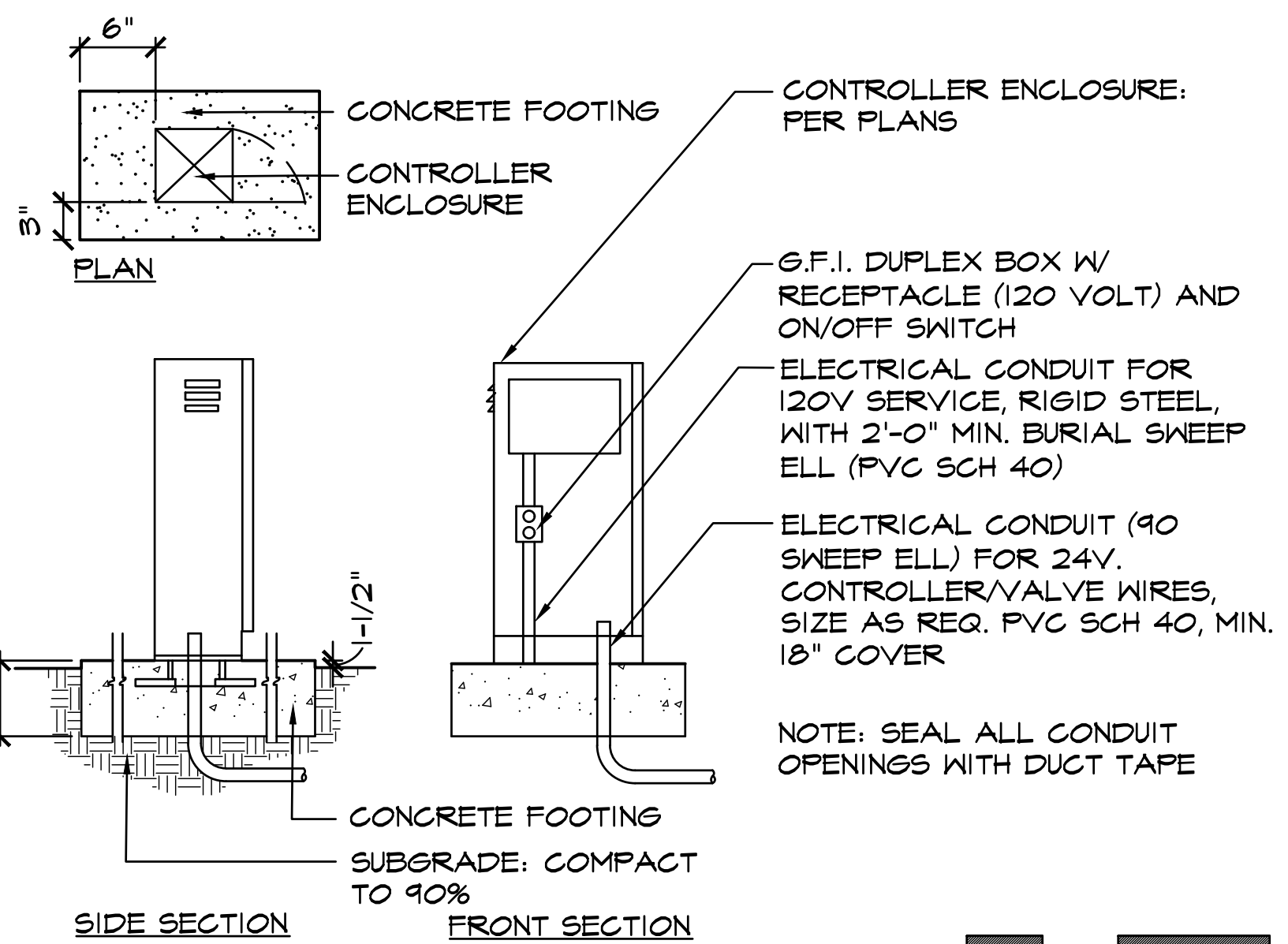
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1 650.375.1313
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C.A.L.A.

TITLE:
PLANTING PLAN
ADDISON AVENUE SAFE ROUTE TO SCHOOL
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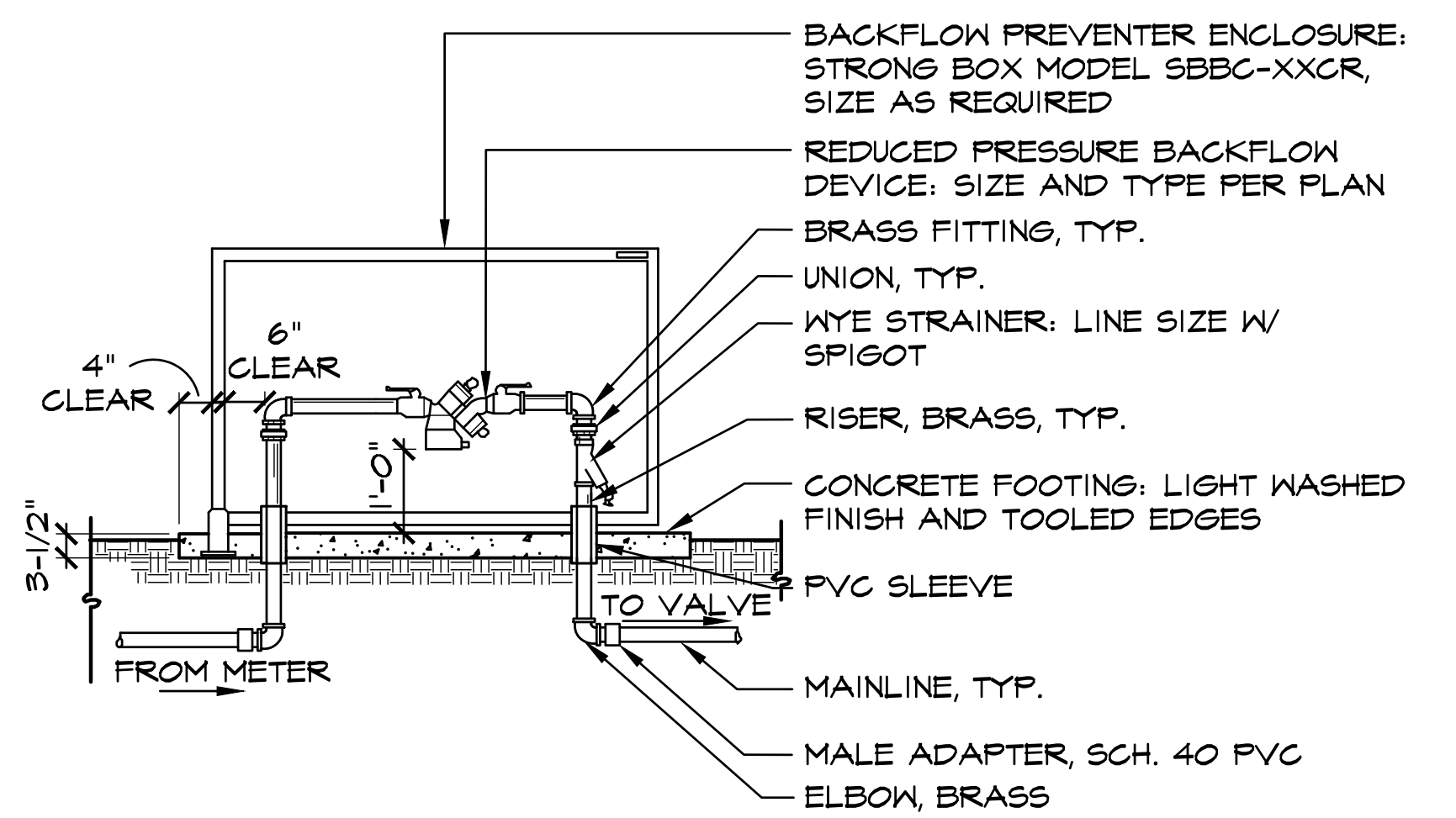
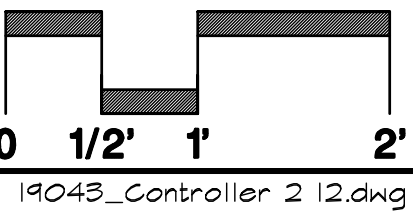
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OF
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CIP-ST-26

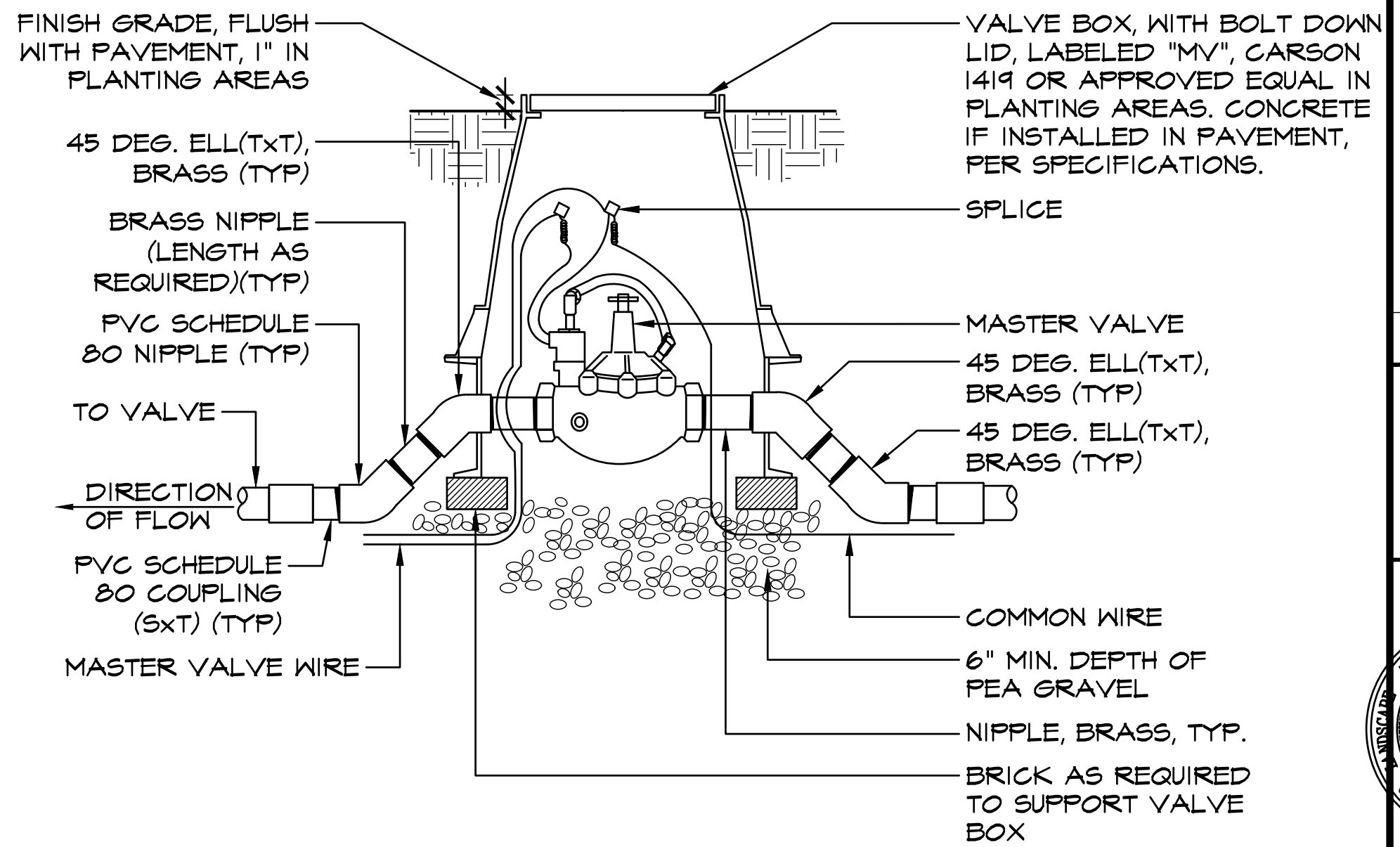
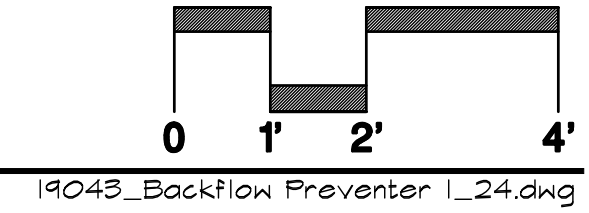




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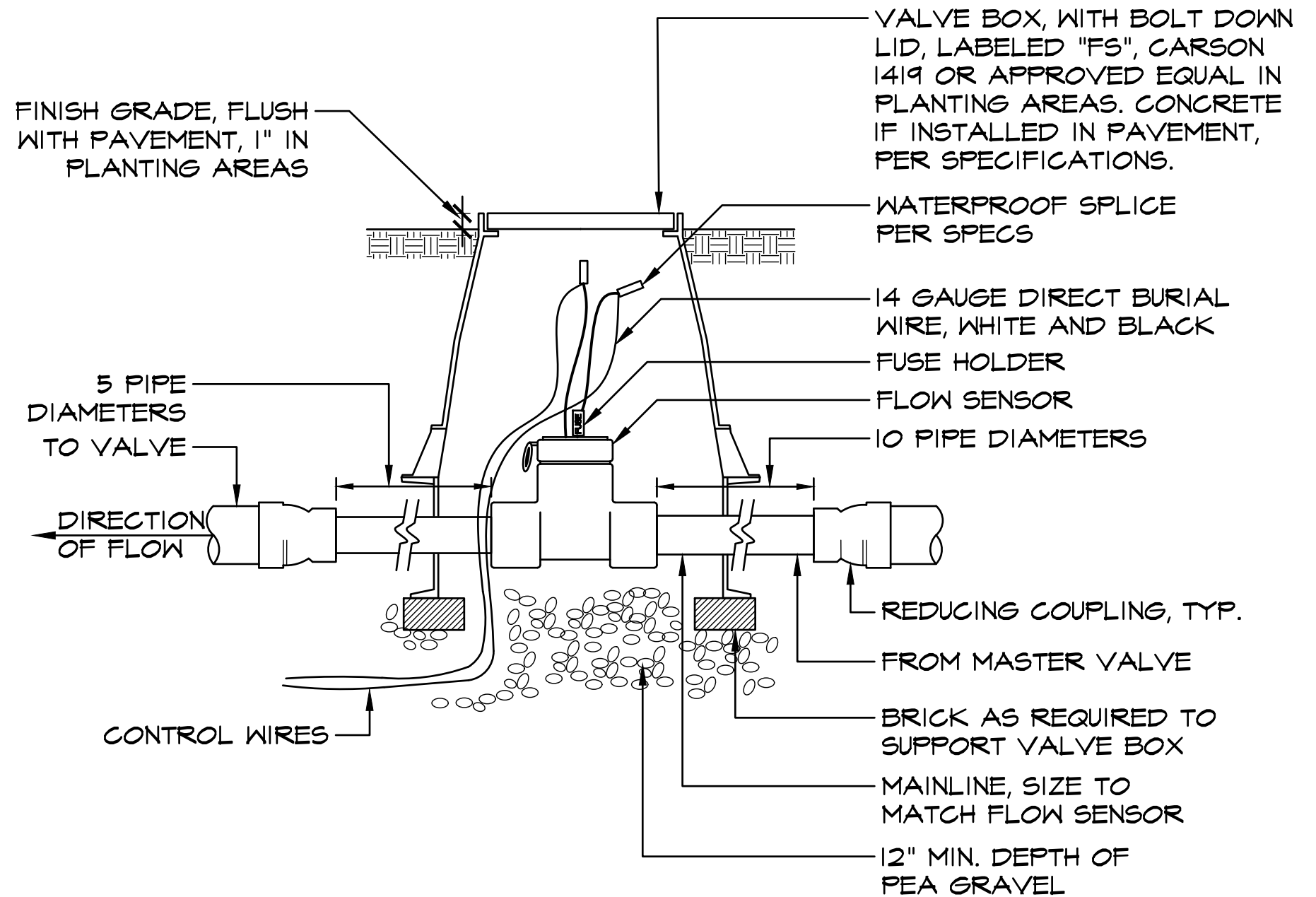


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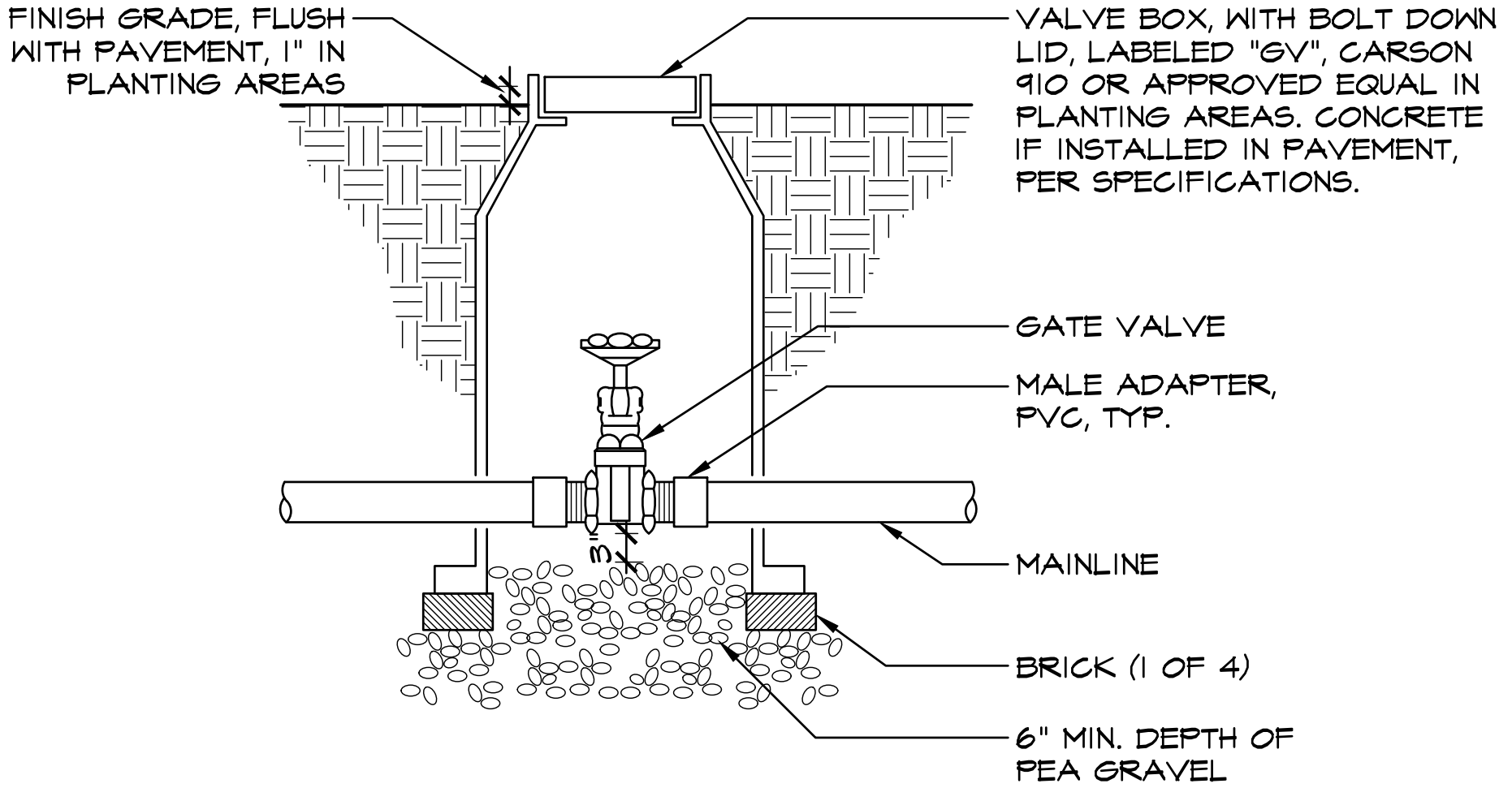
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L3.0 MASTER VALVE SECTION

N.T.S.
19043_Master Valve_48.dwg



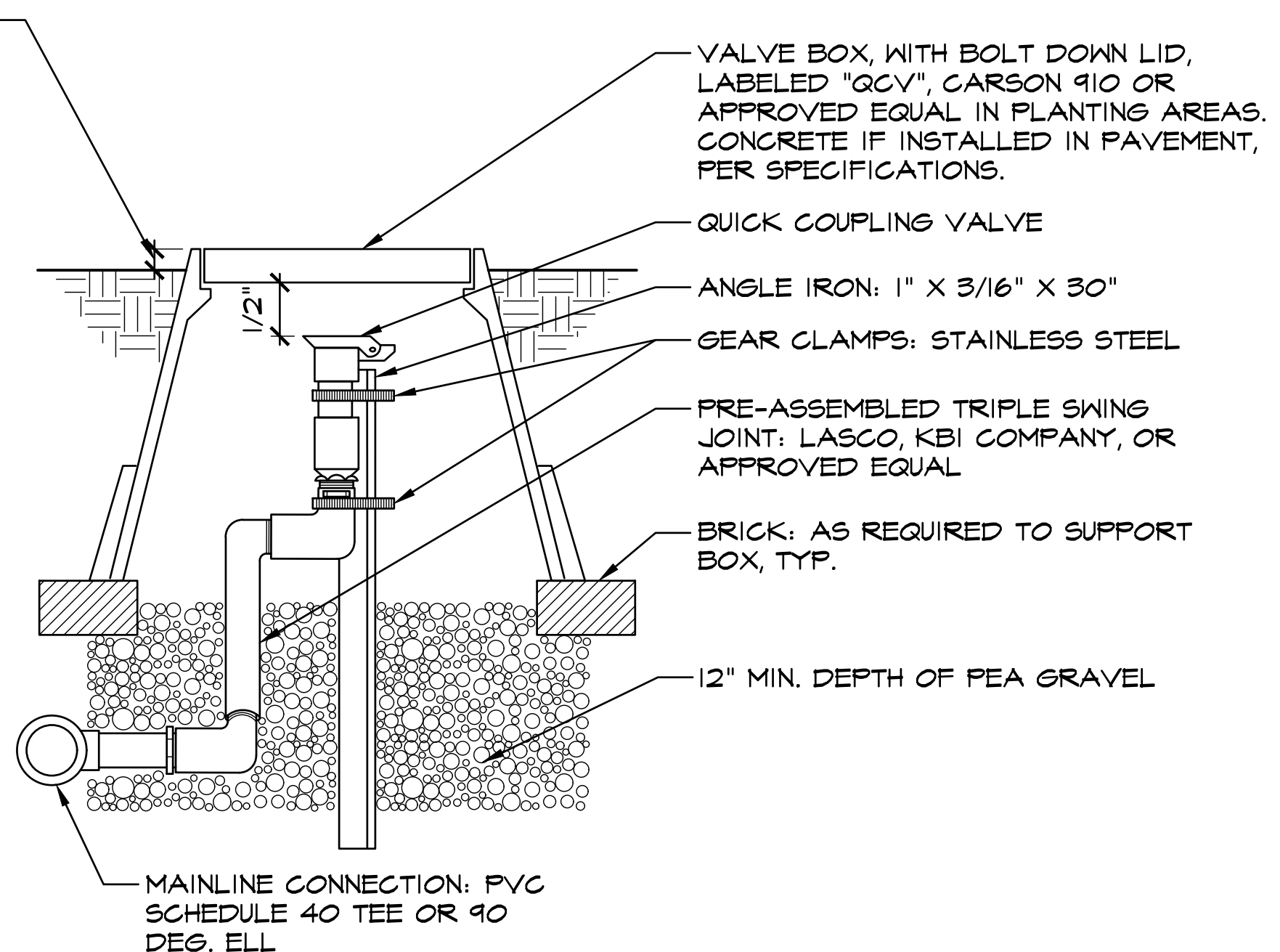
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L3.0 FLOW SENSOR SECTION

N.T.S.
02210 Flow Sensor 48.dwg



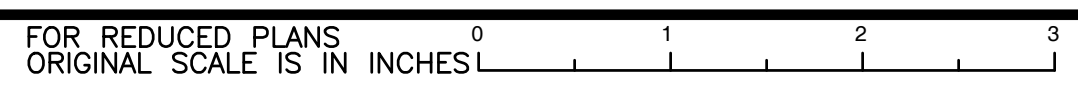
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L3.0 GATE VALVE SECTION

N.T.S.
19043_Gate Valve_4.dwg



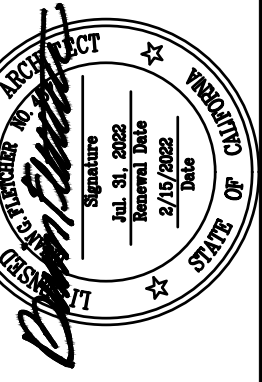
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L3.0 QUICK COUPLING VALVE SECTION

N.T.S.
19043_Quick Coupling Valve_4.dwg

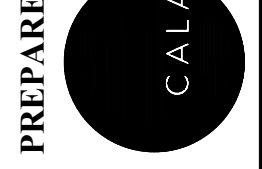


NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: MR
DRAWN BY: DC



PREPARED BY: CALA
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TITLE: LANDSCAPE DETAILS
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

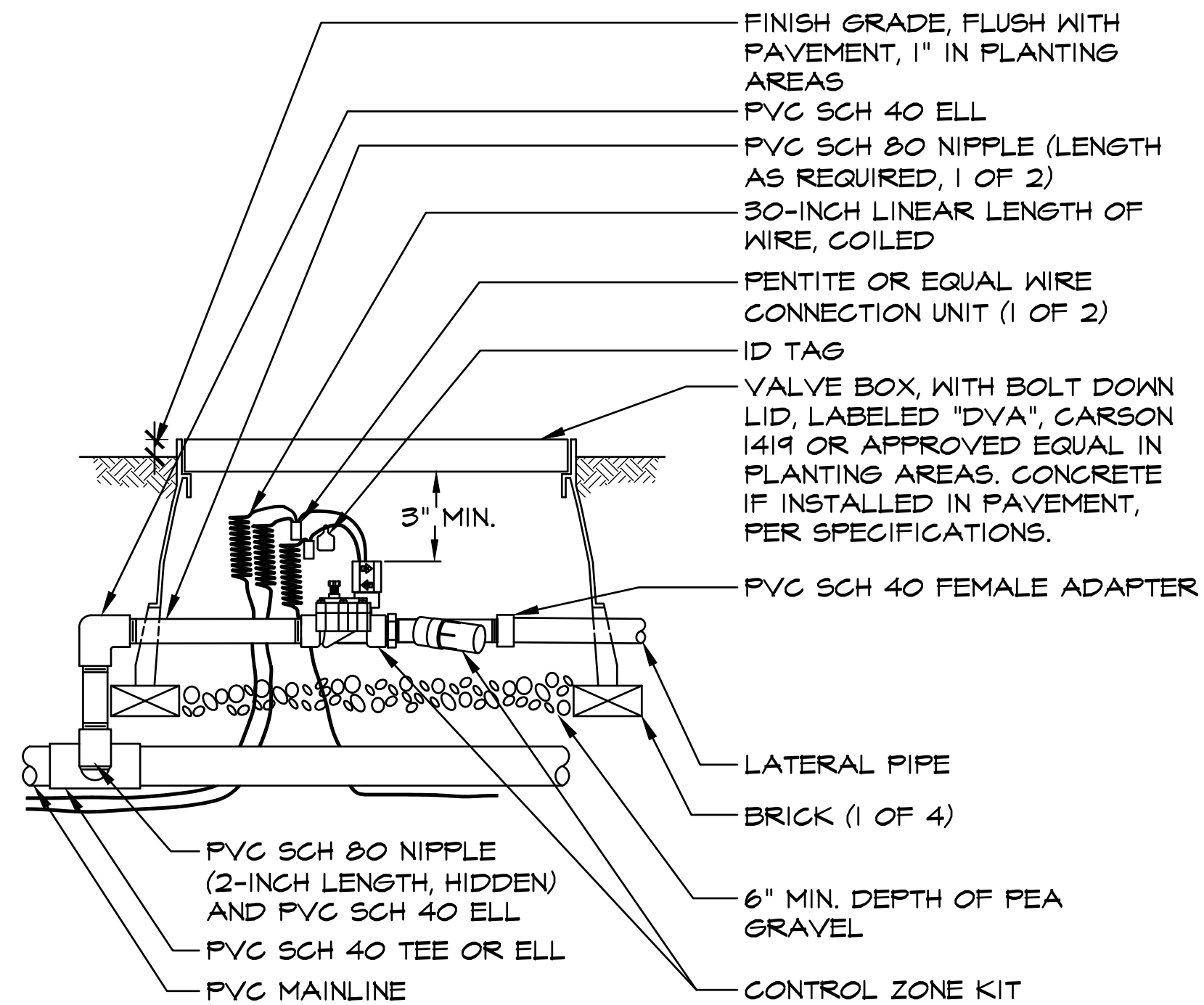
SHEET 26 OF 29

DATE: 02/15/2022
JOB NO.: CIP-ST-26



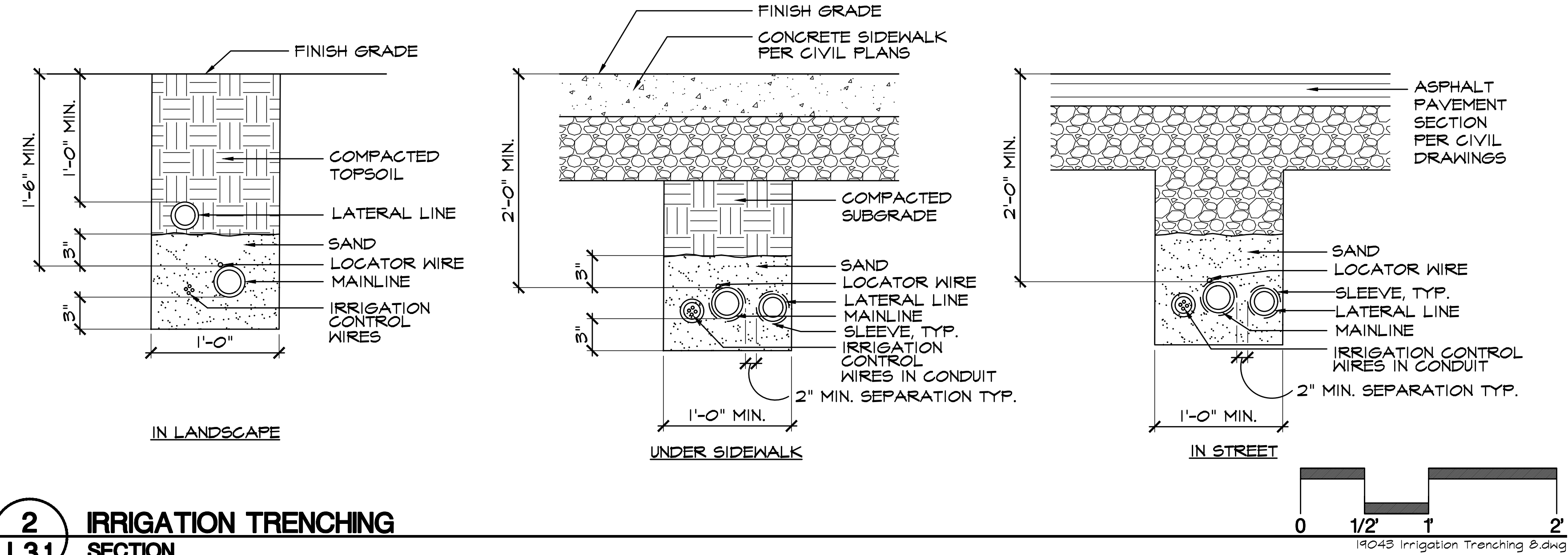
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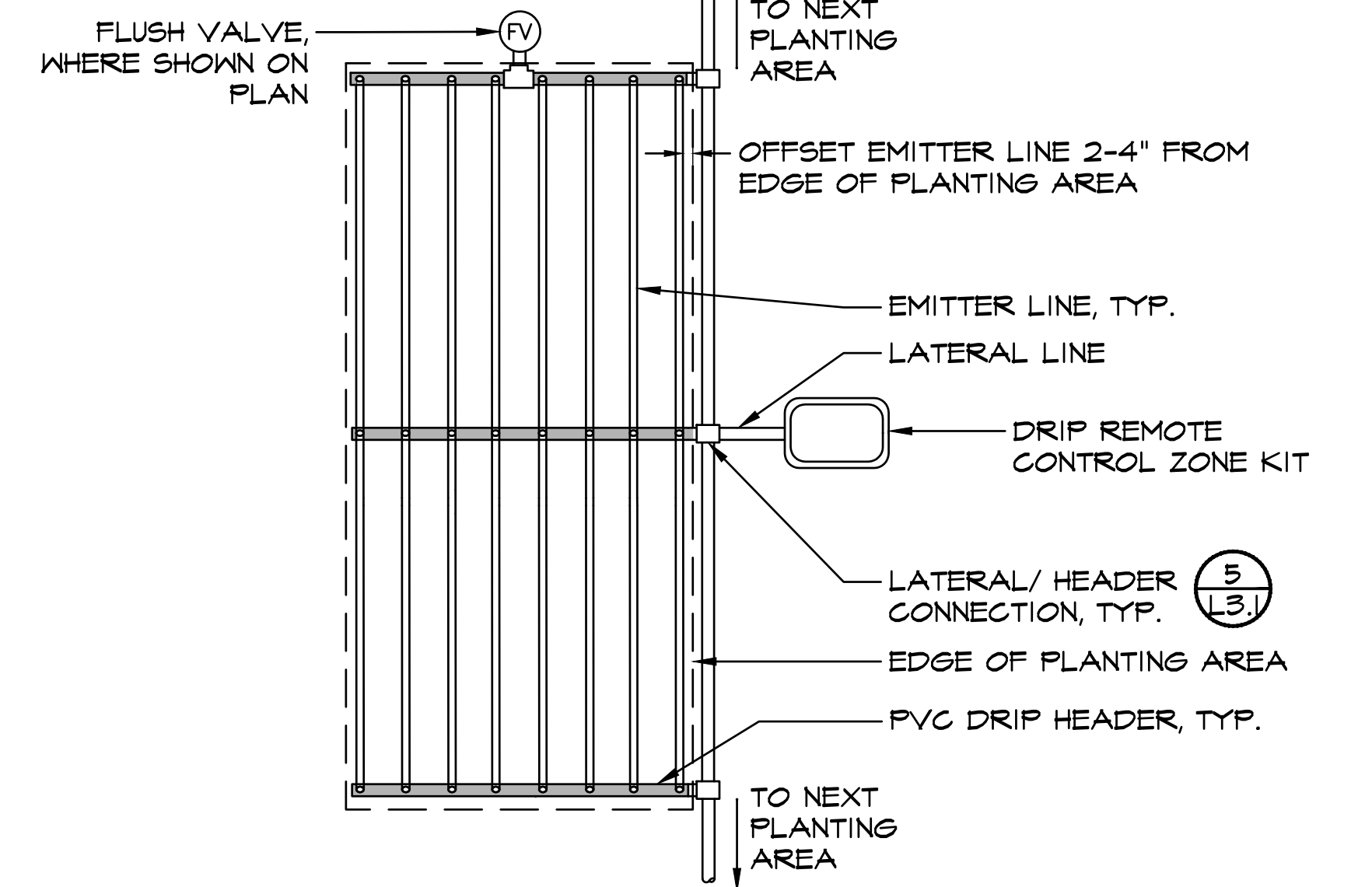
1 DRIP CONTROL ZONE KIT SECTION N.T.S.
 L3.1 19043_Drip Valve_1.dwg

- NOTES:**
1. TAPE AND BUNDLE WIRING AT 10'-0" INTERVALS.
 2. TIE A 2'-0" LOOP IN ALL WIRING AT CHANGES IN DIRECTION GREATER THAN 30 DEGREES. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.
 3. SNAKE PLASTIC PIPES IN TRENCH.
 4. SLEEVE CONTROL WIRES BELOW ALL HARDSCAPE ELEMENTS. SLEEVE PIPING WHERE INDICATED ON PLAN.

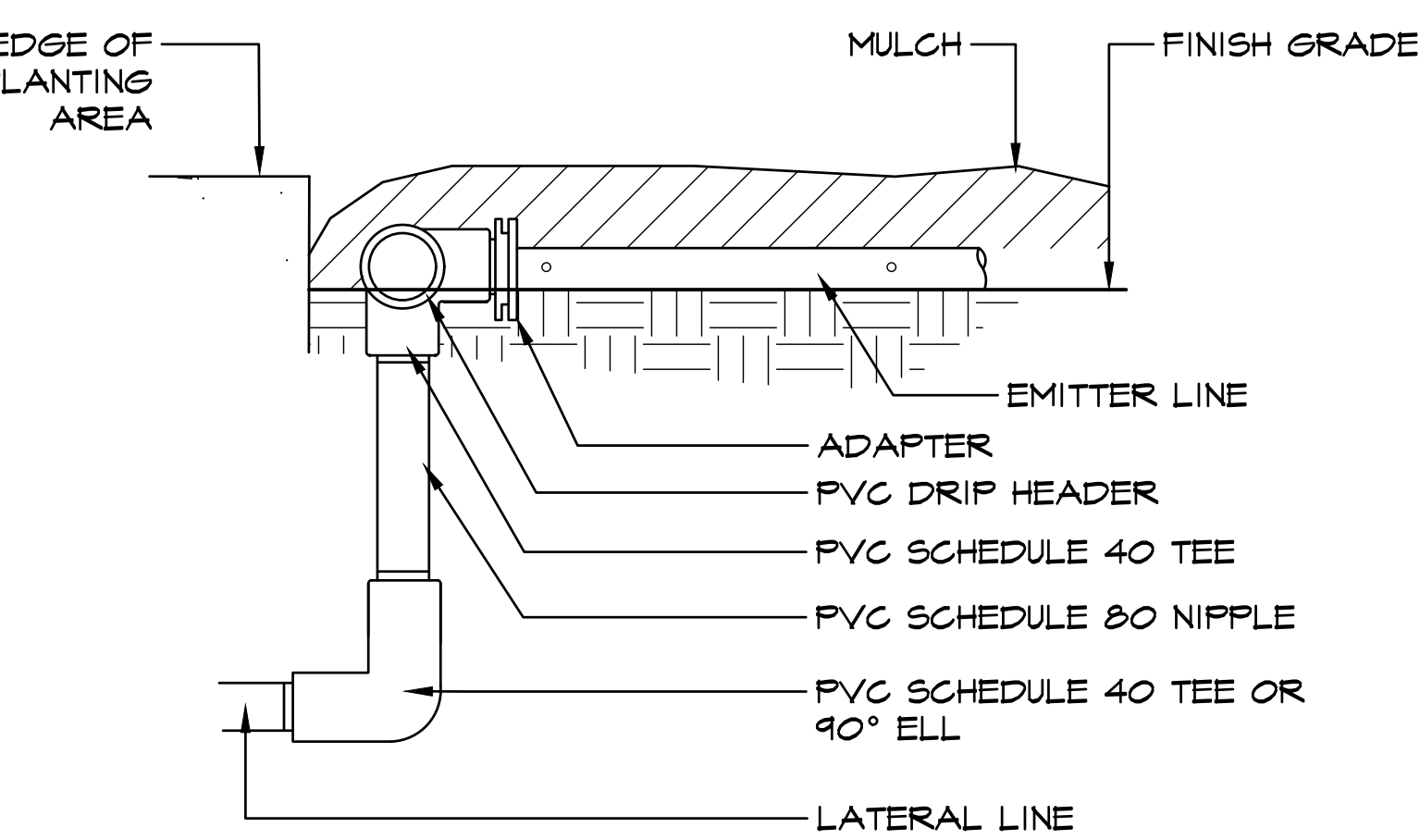


2 IRRIGATION TRENCHING SECTION N.T.S.
 L3.1 19043_Irrigation Trenching_2.dwg

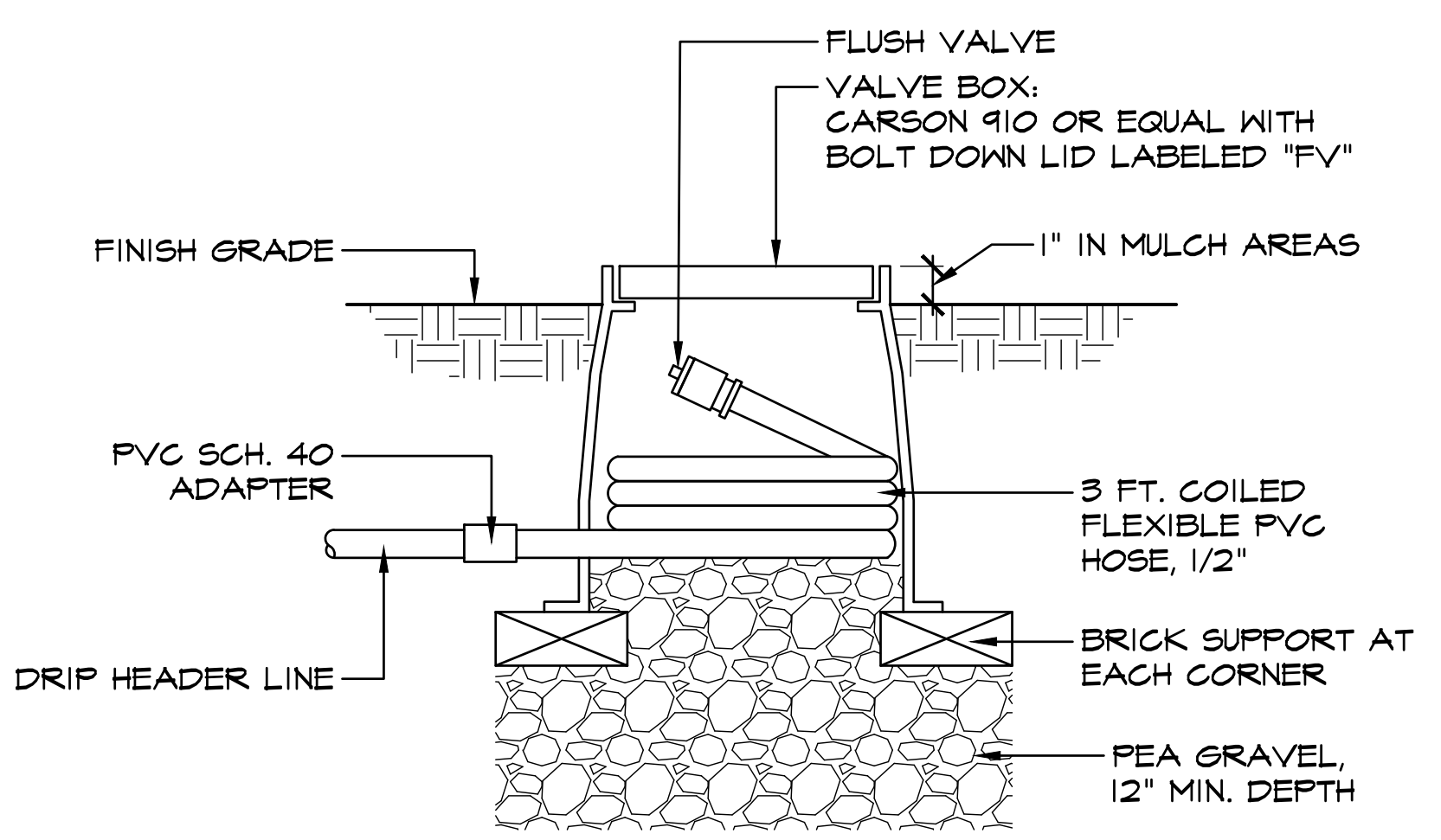
- NOTES:**
1. STAKE EMITTER LINE EVERY 4 FEET.
 2. LATERAL LINE, FLUSH VALVE AND DRIP REMOTE CONTROL ZONE KIT SHOWN OUTSIDE OF PLANTING AREA FOR GRAPHIC PURPOSES ONLY. LOCATE WITHIN PLANTING AREA WHERE POSSIBLE.



3 DRIP LAYOUT PLAN N.T.S.
 L3.1 19043_Drip Center Feed Layout_1.dwg



4 DRIP LATERAL / HEADER CONNECTION SECTION N.T.S.
 L3.1 19043_Drip Lateral Header Connection_2.dwg



5 MANUAL FLUSH VALVE SECTION N.T.S.
 L3.1 19043_DripFlushValveManual_2.dwg



DESIGNED BY: MR	NO.	REVISIONS	DATE
DRAWN BY: DC	1	CONFORMED SET	6/23/2022

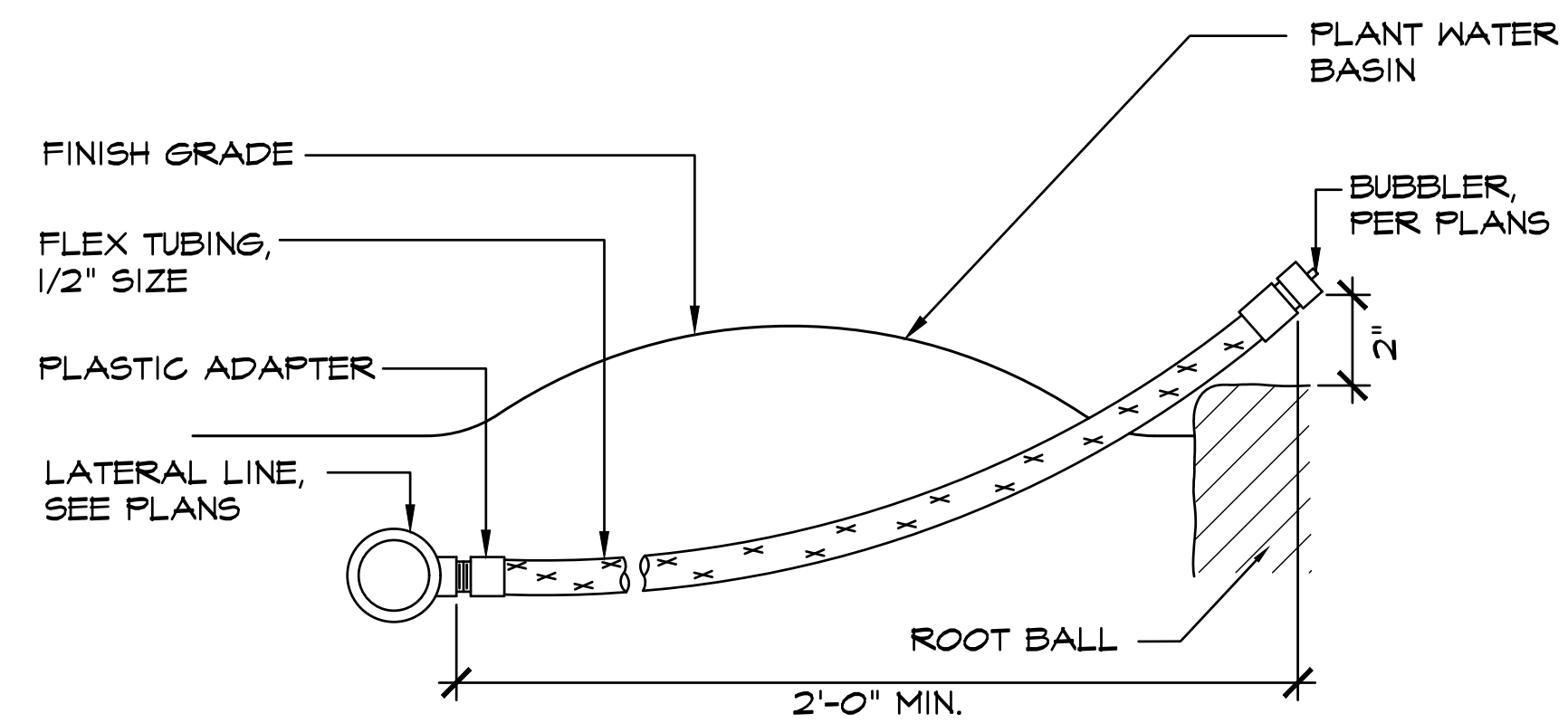
PREPARED BY: C.A.L.A.

TITLE: LANDSCAPE DETAILS
 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
 CITY OF EAST PALO ALTO, CALIFORNIA

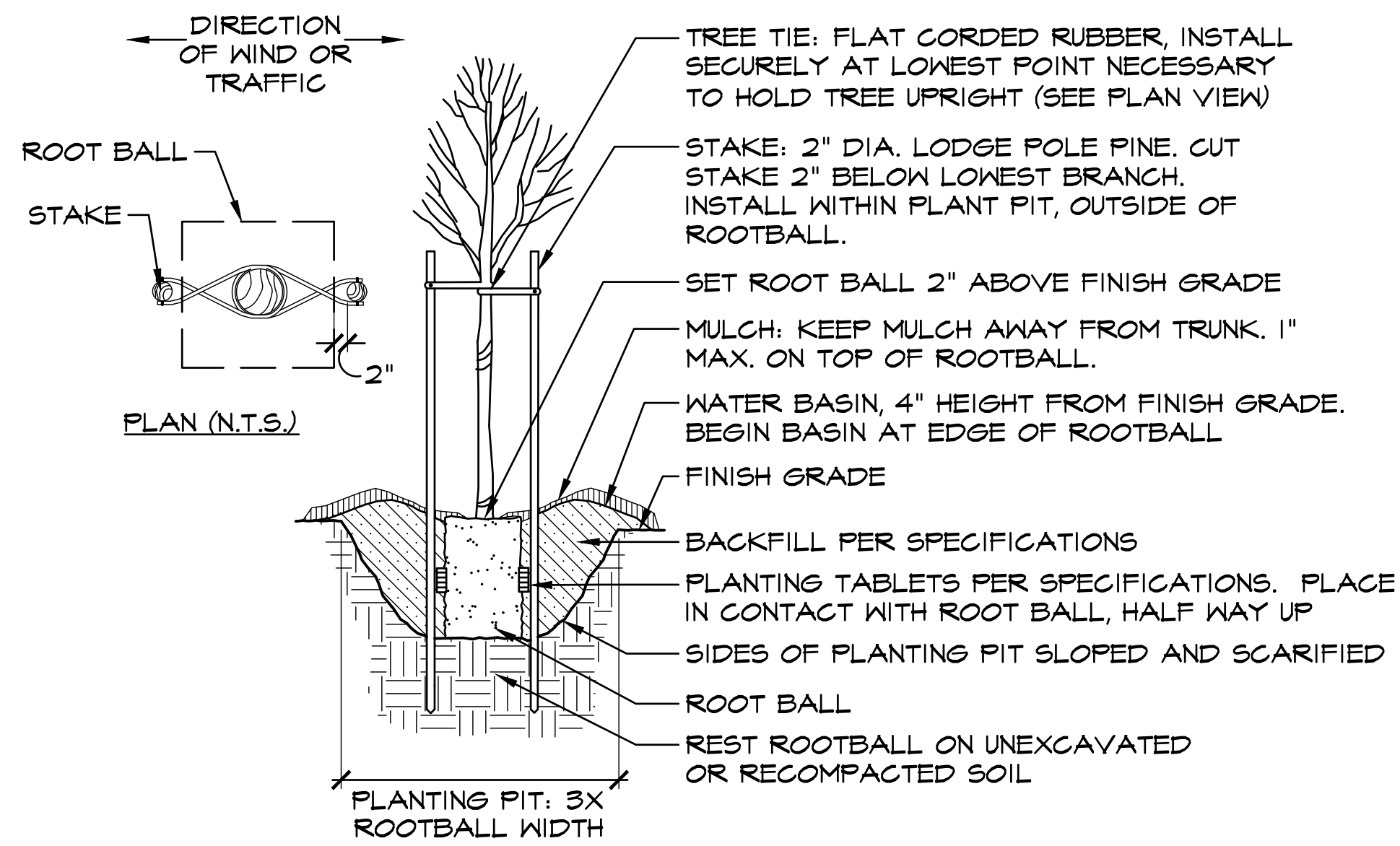
SHEET 27 OF 29

DATE: 02/15/2022
 JOB NO.: CIP-ST-26

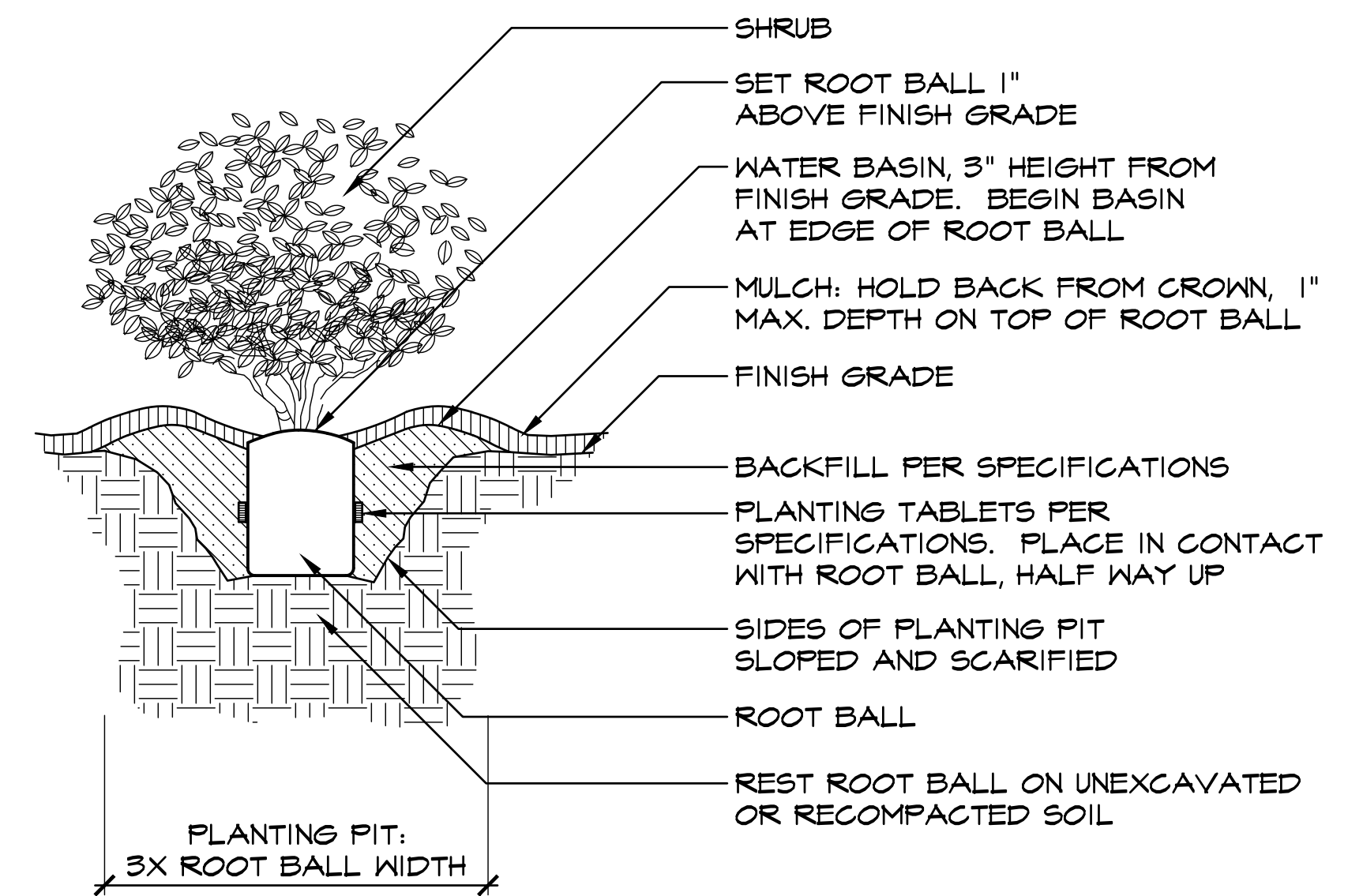
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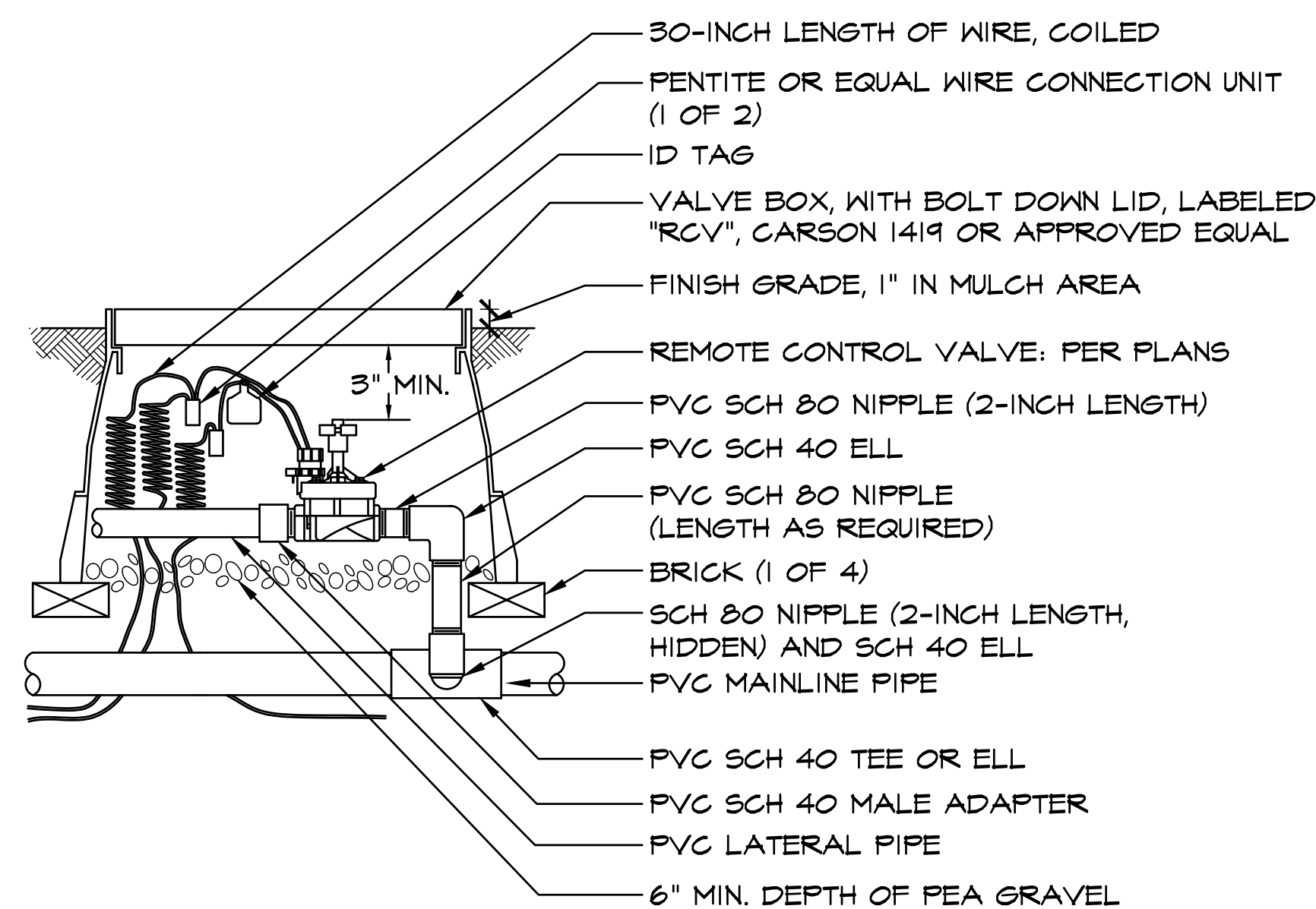
1
L3.2 TREE BUBBLER SECTION N.T.S.
19043_TreeBubbler_12.dwg



2
L3.2 TREE PLANTING SECTION N.T.S.
19043_TreePlanting_32.dwg



3
L3.2 SHRUB PLANTING SECTION N.T.S.
19043_ShrubPlanting_48.dwg

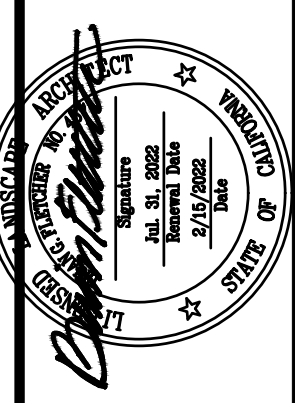


4
L3.2 REMOTE CONTROL VALVE SECTION N.T.S.
19043_Remote Control Valve 1 4.dwg



NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

DESIGNED BY: MR
DRAWN BY: DC

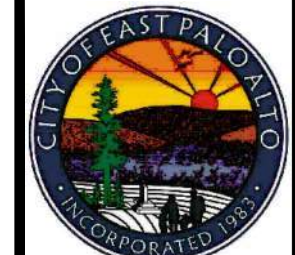


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ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 28 OF 29

DATE: 02/15/2022
JOB NO.: CIP-ST-26



L3.2

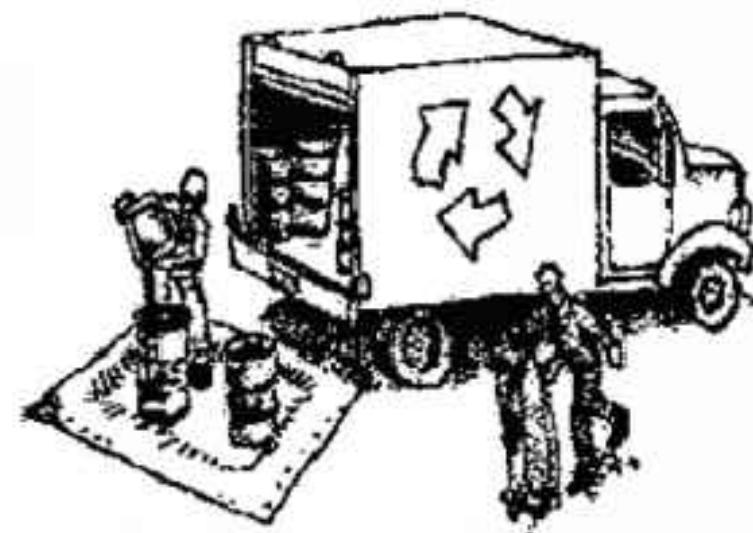
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

Construction Best Management Practices (BMPs)

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

Materials & Waste Management



Non-Hazardous Materials

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- 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



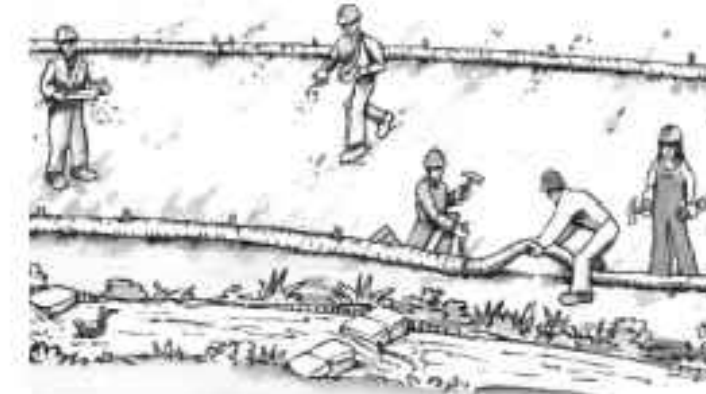
Maintenance and Parking

- 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 or drop cloths 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, or steam cleaning equipment.

Spill Prevention and Control

- Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available 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 litter, and/or rags).
- 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).

Earthmoving



- Schedule grading and excavation work during dry weather.
- Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - 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, to prevent materials that have not cured from contacting stormwater runoff.
- 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

- Protect nearby 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, absorb, 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 sooner!).
- If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



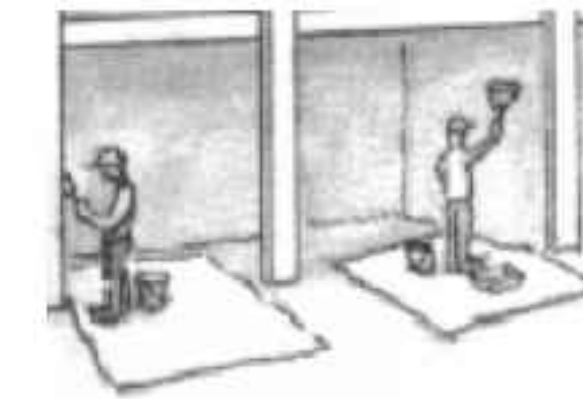
- Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- Stack bagged material on pallets and under cover.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

Painting & Paint Removal



Painting Cleanup and Removal

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm 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 excess liquids 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.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

Dewatering



- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- Divert run-on water from offsite away from all disturbed areas.
- 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 or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

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

NO.	REVISIONS	DATE
1	CONFORMED SET	6/23/2022

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TITLE: CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)
ADDISON AVENUE SAFE ROUTE TO SCHOOL
AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 29
OF
29

DATE: 2/14/2022
JOB NO.:

CIP-ST-26

