ATTACHMENT E – PLANS

PLANS FOR

ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENTS PROJECT

CITY OF EAST PALO ALTO

LEGEND

MON.	MONUMENT
S	SANITARY SEWER MANHOLE
D	STORM DRAIN MANHOLE
T	TELEPHONE MANHOLE
WM	WATER METER
WV	WATER VALVE
GV	GAS VALVE
FH	FIRE HYDRANT
DI	DRAINAGE INLET
JP	JOINT POLE
	STREET LIGHT
	ROADSIDE SIGN
3 / 10	DETAIL REFERENCE NUMBER / PAGE REFERENCE NUMBER
(BW 89.83±)	CONFORM TO EXISTING GRADE AS INDICATED
(5.3%±)	EXISTING STREET OR SIDEWALK SLOPE

	EXISTING TREE
	DETECTABLE WARNING SURFACE
	COBBLE
	PROPERTY LINE
	RIGHT OF WAY
catv	EXISTING CABLE TELEVISION LINE
e	EXISTING ELECTRICAL LINE
hv	EXISTING HIGH VOLTAGE ELECTRIC LINE
g	EXISTING GAS LINE
ss	EXISTING SANITARY SEWER LINE
sd	EXISTING STORM DRAIN LINE
t	EXISTING TELEPHONE LINE
w	EXISTING WATER LINE
	BASIS OF BEARINGS / TIE TO CONTROL LINE
	PROPOSED STORM DRAIN

SHEET NUMBERS AND TITLES

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

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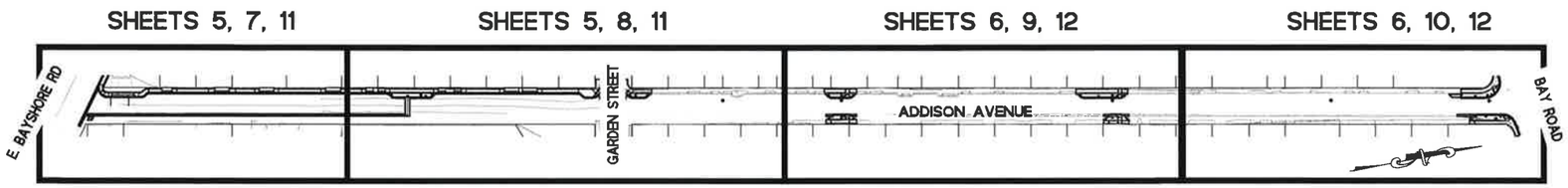
VICINITY MAP

NOT TO SCALE



KEY MAP

SCALE: 1"=100'

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.

ABBREVIATIONS

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

PREPARED UNDER MY SUPERVISION

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

REGISTERED PROFESSIONAL ENGINEER — LAWRENCE LAU — No.C 57397 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS	DATE

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

SHEET 1 OF 29

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

J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\01_TITLE EPA.dwg Plotted on: 02/11/22 @ 04:35:47 PM

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

I. GENERAL NOTES

1. ALL REFERENCES TO "COUNTY" IN THESE PLANS SHALL MEAN THE COUNTY OF SAN MATEO.
2. 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.
3. 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.
4. THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND ADEQUACY OF THE DESIGN CONTAINED HEREIN.
5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
6. 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.
7. 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.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING MATERIAL, METHODS OF WORK, AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
9. 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.
10. THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES, TRASH COLLECTION AGENCY, AND EMERGENCY SERVICES OF THE CONSTRUCTION SCHEDULE TO ALLOW COORDINATION.
11. 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 BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.
12. 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

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

III. TRAFFIC CONTROL

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

IV. SIGNAGE NOTES

1. ALL SIGNS SHALL BE PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
2. 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.
3. 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.
4. 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

1. ALL MARKINGS AND STRIPING SHALL BE PER CALTRANS STANDARD PLANS, LATEST EDITION.
2. ALL STRIPING AND LEGENDS SHALL BE THERMOPLASTIC.
3. 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.
4. ADD "NO DUMPING-DRAINS TO BAY" STENCIL AT EVERY STORM DRAIN INLET. SEE SPECIFICATIONS.
5. CROSSWALK STRIPING SHALL BE 10' LONG THERMOPLASTIC STRIPES, 12" WIDE SEPARATED BY 24" GAPS (SEE PLANS FOR COLOR).

VI. CONSTRUCTION STAGING

1. 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.
2. NO EQUIPMENT SHALL BE STORED WITHIN CITY RIGHTS-OF-WAY UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
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 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

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, CONSTRUCTION BMP PLAN SHEET, ATTACHED HERETO AS SHEET NO. 29.
2. 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.
3. 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.
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.
7. 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.
15. CONSTRUCTION SITE SHALL BE KEPT CLEAN AND SHALL BE SWEPT BY MECHANICAL SWEEPING ON A DAILY BASIS.

VIII. EXISTING CONDITIONS, UTILITIES AND MONUMENTS

1. 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.
2. 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.
3. 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.
4. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT-IN-PLACE EXISTING MONUMENTS. DESTROYED/DAMAGED MONUMENTS SHALL BE RE-ESTABLISHED AT CONTRACTOR'S SOLE EXPENSE.
5. 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.
6. PROTECT EXISTING IRRIGATION SYSTEMS WITHIN PROJECT LIMITS.
7. 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.
8. CONTRACTOR SHALL BE AWARE OF ALL OVERHEAD LINES. ALL CONSTRUCTION EQUIPMENT SHALL MEET THE MAXIMUM HEIGHT REQUIREMENT.

IX. EARTHWORK AND GRADING

1. TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH, DEBRIS AND ANY OTHER DELETERIOUS MATERIAL SHALL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
2. 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.
3. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.

X. STATEMENT OF RESPONSIBILITY

1. 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

1. EXISTING SIGNS AS SHOWN ON THE SIGNING/STRIPING PLANS SHALL BE SALVAGED AND MAINTAINED IN AN ACCEPTABLE CONDITION FOR RE-INSTALLATION BY THE CONTRACTOR.
2. DEMOLITION INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS AND GRINDING OF THERMOPLASTIC PAVEMENT LEGENDS WHERE IN CONFLICT WITH PROPOSED STRIPING.
3. 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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J:\DESIGN\19.358-1_Addison_St_SRTS_Improvements\2021.08.XX_100_Plan\02_GENERAL_CONSTRUCTION_AND_COORDINATION_NOTES.dwg Plotted on: 02/11/22 @ 11:17:29 AM

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

NO.	REVISIONS	DATE

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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:

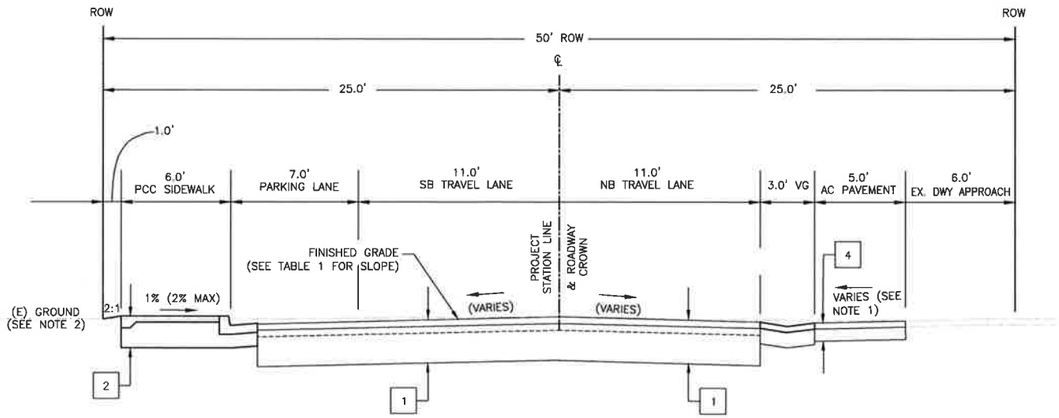
1. 4" HMA (TYPE A)
   10" STABILIZED BASE (FULL DEPTH RECLAMATION)
2. 4" PCC
   4" CLASS 2 AB (95% REL. COMP.)
3. 6" PCC
   6" CLASS 2 AB (95% REL. COMP.)
4. 2" HMA (TYPE A)
   4" CLASS 2 AB (95% REL. COMP.)

CONSTRUCTION NOTES:

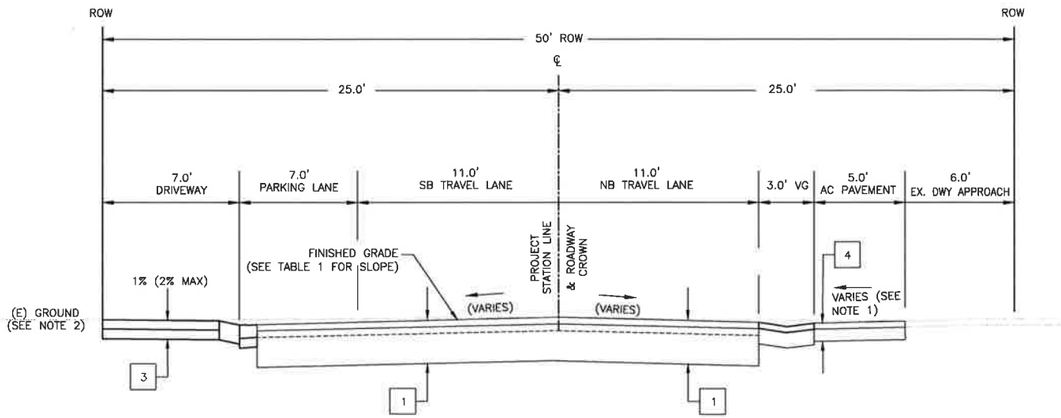
1. CONTRACTOR TO ENSURE THAT A POSITIVE SLOPE IS PROVIDED FROM THE AC PAVEMENT EDGE. ON THE EAST SIDE OF ADDISON AVENUE TO THE VALLEY GUTTER EDGE.
2. CONTRACTOR TO ENSURE THAT DRIVEWAYS ARE CONSTRUCTED WITH A SLOPE TOWARDS THE STREET, SUCH THAT RUNOFF AT THE BACK OF THE DRIVEWAY WILL DRAIN TO THE GUTTER.
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.)

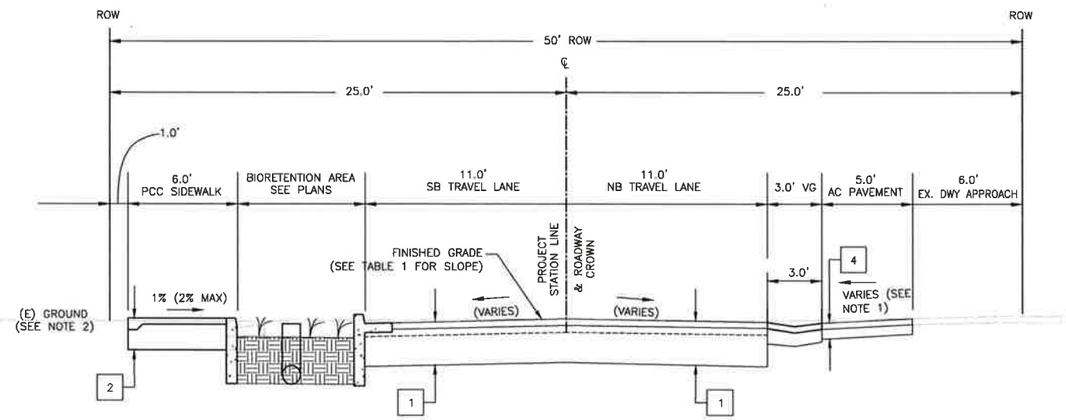
BEGIN STATION	END STATION	SB TRAVEL LANE CROSS SLOPE (%)	NB TRAVEL LANE CROSS SLOPE (%)
10+50	10+60	–0.5	–0.5
10+60	10+85	–1.0	–0.5
10+85	11+10	–1.5	–0.5
11+10	11+40	–2.5	–0.5
11+40	11+60	–3.0	–1.0
11+60	12+40	–5.0	–1.0
12+40	13+00	–5.0	0.5
13+00	13+70	–3.0	1.0
13+70	14+40	–3.0	1.0
14+40	15+25	–3.0	1.0
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.

811 Know what's below. Call before you dig.

J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\03_TYPICAL SECTIONS.dwg Plotted on: 02/11/22 11:22:47 AM

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

NO.	REVISIONS	DATE

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

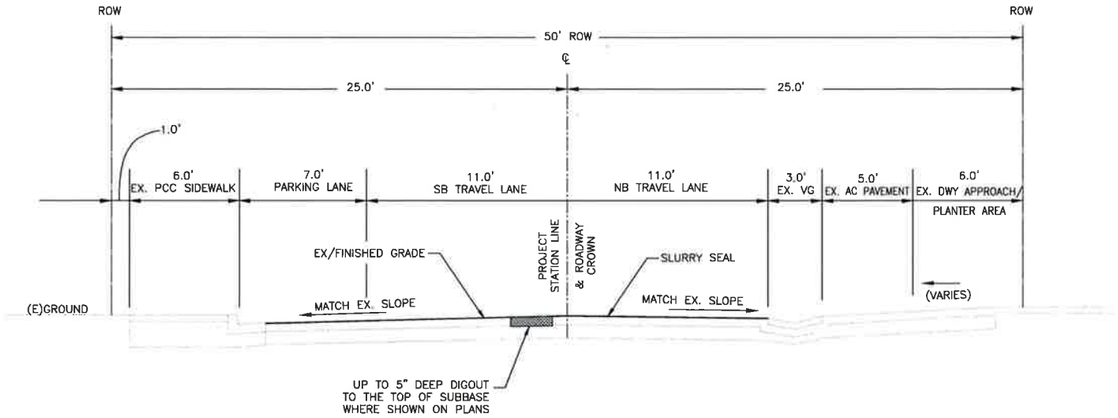
TITLE: TYPICAL CROSS-SECTIONS
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 3 OF 29

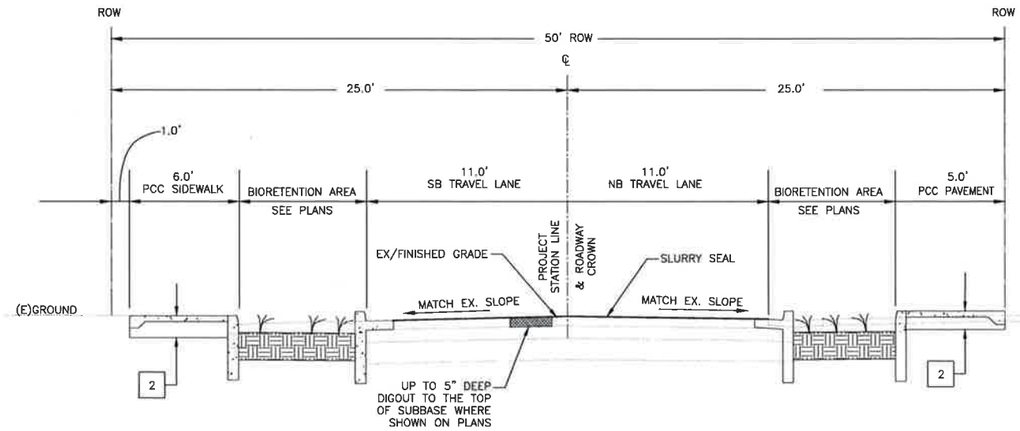
DATE: 2/14/2022
JOB NO.: CIP-ST-26

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.

Know what's below. Call before you dig.

Plotted on: 02/11/22 @ 11:22:57 AM

J:\DESIGN\19_358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\03_TYPICAL SECTIONS.dwg@ 11:22:57 AM

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

NO.	REVISIONS	DATE

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 4 OF 29

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

LEGEND:

- FULL DEPTH RECLAMATION (14" 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:

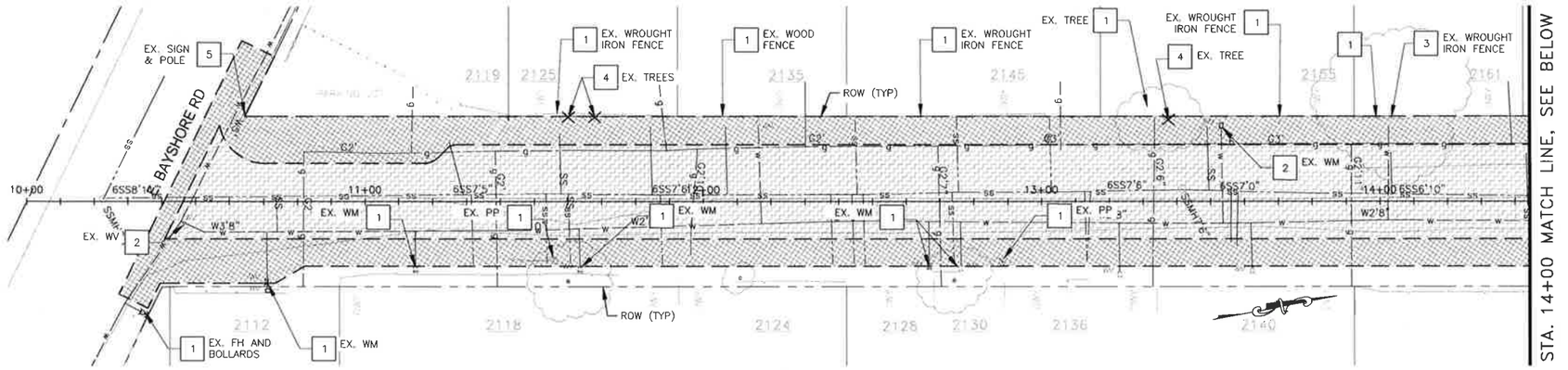
1. PROTECT IN PLACE
2. ADJUST TO GRADE
3. RECONSTRUCT
4. REMOVE
5. REMOVE AND SALVAGE

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.

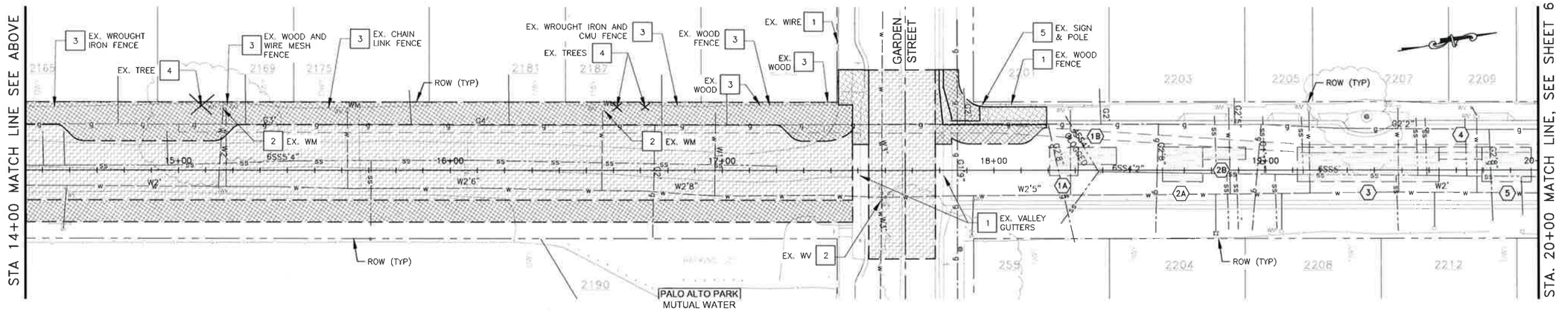
DIGOUT SCHEDULE

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'



ADDISON AVENUE

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40

811 Know what's below. Call before you dig.

Plotted on: 02/11/22 @ 11:27:50 AM

J:\DESIGN\19.358-1_Addison St SRTS Improvements\2021.08.XX_100 Plan\05_DEMO PLAN.dwg@ 11:27:50 AM

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

NO.	REVISIONS	DATE

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 (14" 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.
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- TRENCH FOR NEW SD PIPE
- SAWCUT LINE
- (#) DIGOUT NUMBER

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2. ADJUST TO GRADE
3. RECONSTRUCT
4. REMOVE
5. REMOVE AND SALVAGE

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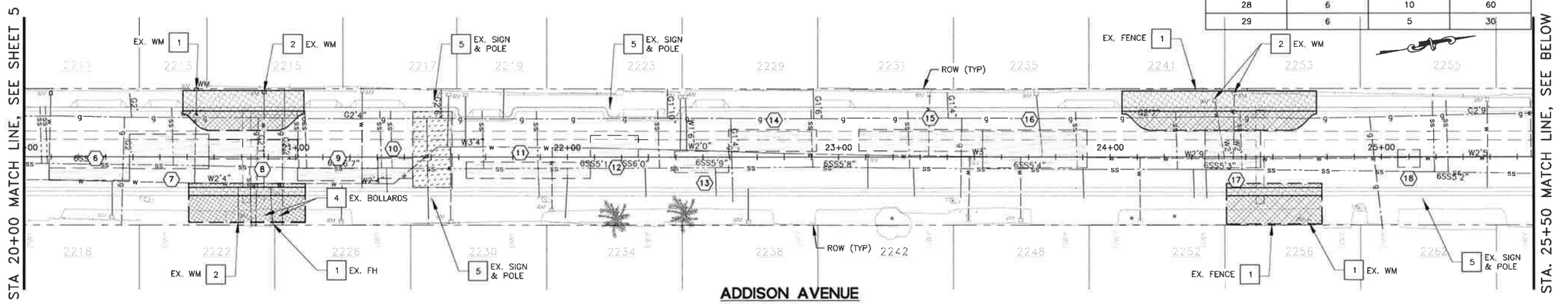
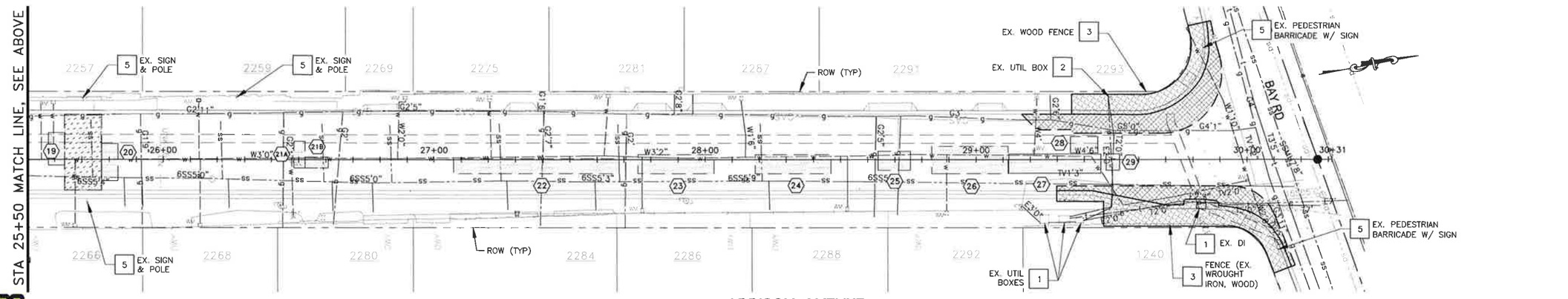
7. CONTRACTOR TO VERIFY LIMITS OF DEMOLITION WITH LIMITS OF IMPROVEMENTS SHOWN ON IMPROVEMENTS PLAN AND PROFILE, AND LAYOUT AND DETAIL SHEETS, PRIOR TO DEMOLITION WORKS.

DIGOUT SCHEDULE

DIGOUT NO. (#)	WIDTH (FT)	LENGTH (FT)	AREA (SF)
6	5	30	150
7	13	30	390
8	7	32	224
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





GRAPHIC SCALE
20 0 20 40

811 Know what's below. Call before you dig.

Plotted on: 02/11/22 @ 11:28:00 AM

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

J:\DESIGN\19_358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\05_DEMO_PLAN.dwg@ 11:28:00 AM

NO.	REVISIONS	DATE

DESIGNED BY: CC/KS/EL
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. 20+00 TO STA. 30+20
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 6 OF 29

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

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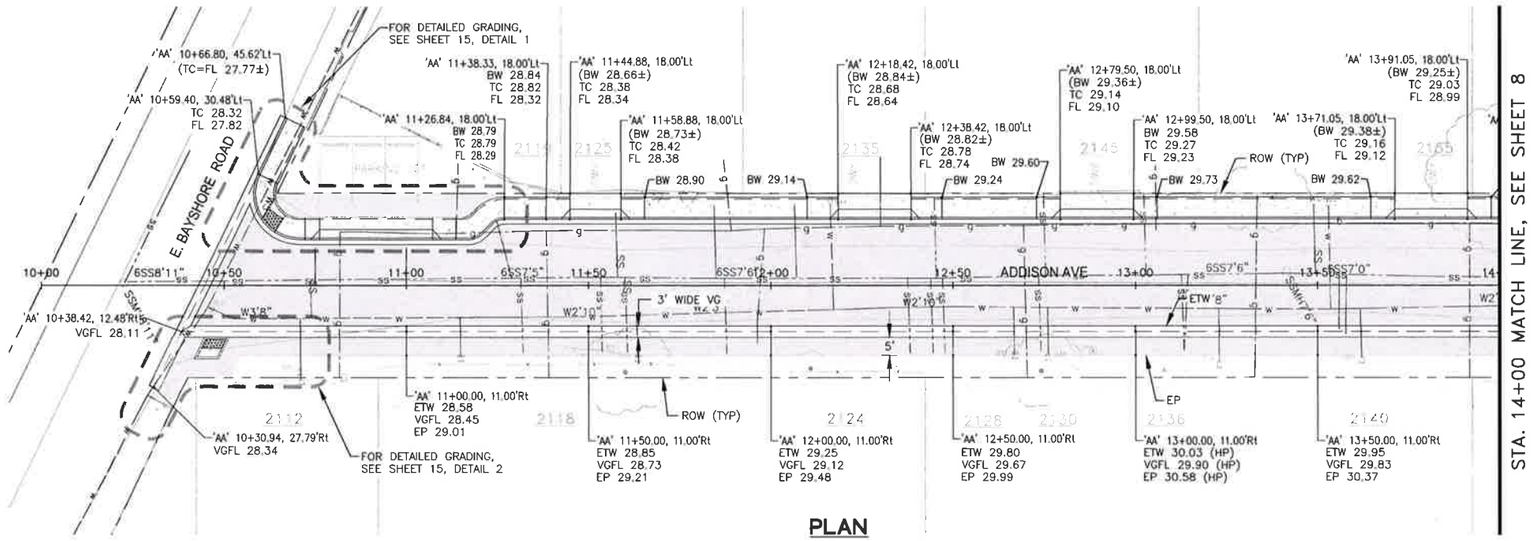
2. FOR PAVEMENT REMOVAL AND REPLACEMENT LIMITS, REFER TO SHEETS 5 AND 6.
3. FOR SPEED HUMP LOCATION, SEE SHEET 11.
4. SEE IRRIGATION PLANS FOR LOCATIONS AND SIZES OF IRRIGATION SLEEVES, METERS, BACKFLOW PREVENTER, CONTROLLER AND OTHER APPURTENANCES.
5. CONTRACTOR SHALL RECONSTRUCT WATER SERVICES THAT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

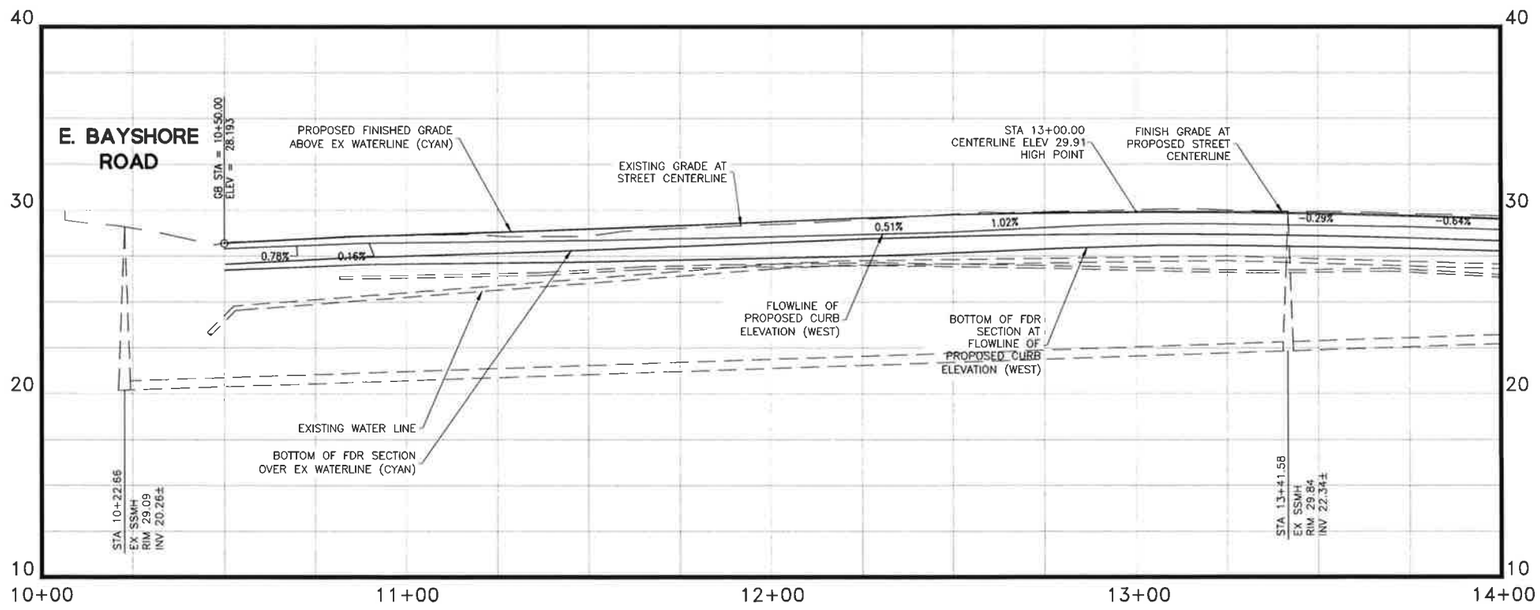
GRAPHIC SCALE
20 0 20 40



PLAN

ADDISON AVENUE

SCALE 1" = 20'



PROFILE

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

811 Know what's below. Call before you dig.

Plotted on: 02/11/22 11:35:17 AM

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

J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plans\07_IMPROVEMENT PLAN.dwg 11:35:17 AM

NO.	REVISIONS	DATE

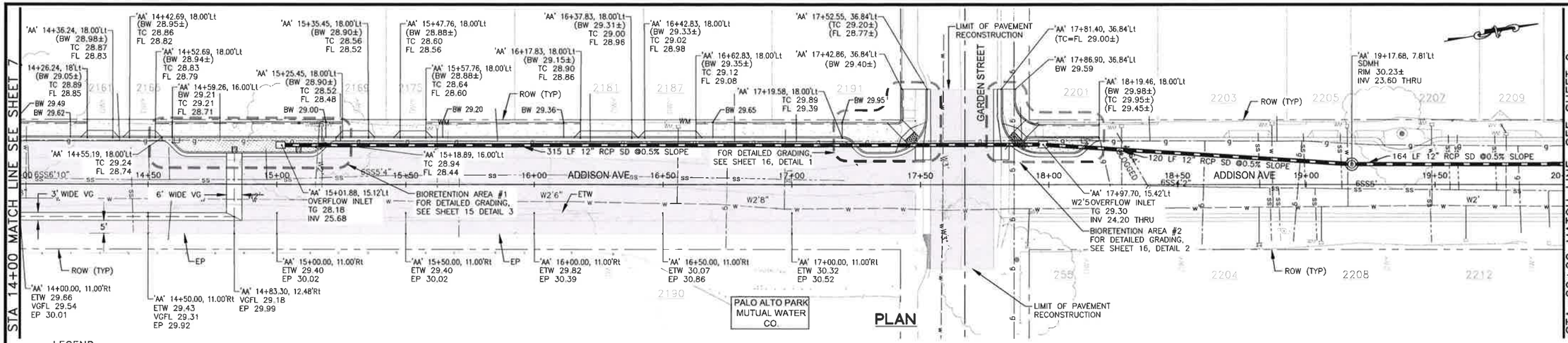
DESIGNED BY: CC/KS/LL
DRAWN BY: CC/JL

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

TITLE:
IMPROVEMENTS PLAN & PROFILE
STA. 10+00 TO STA. 14+00
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 7 OF 29

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



ADDISON AVENUE
SCALE 1" = 20'

GRAPHIC SCALE
20 0 20 40

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.
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- NEW DRIVEWAY PER COUNTY STD DETAIL D-1. SEE SHEET 14.
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- BIORETENTION AREA
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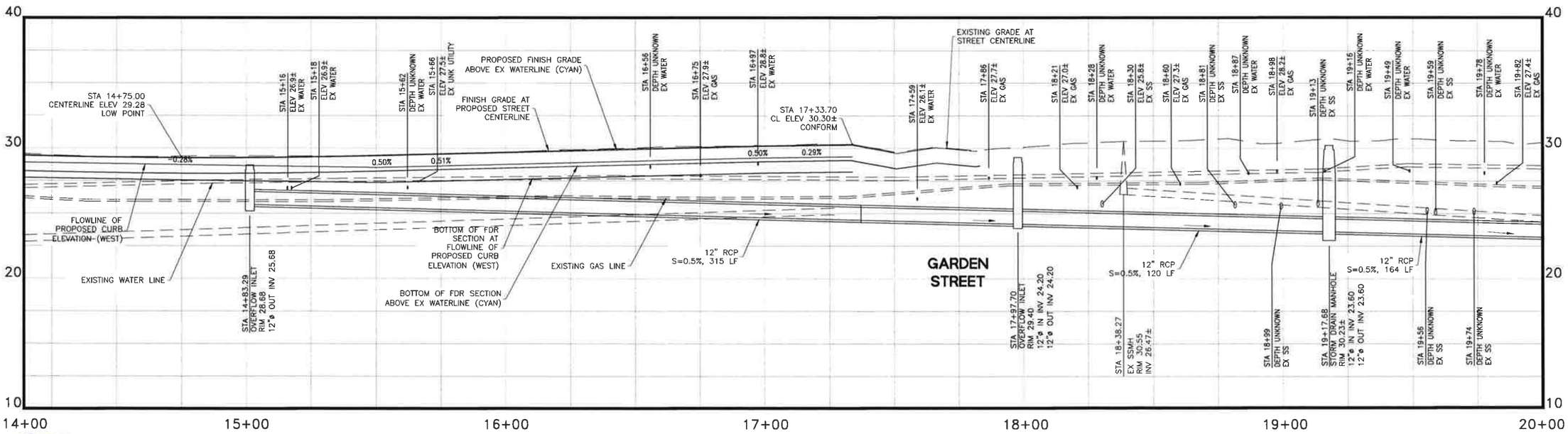


PROFILE
SCALE: HORIZONTAL 1"=20' ; VERTICAL 1"=4'

811 Know what's below. Call before you dig.

Plotted on: 02/11/22 @ 11:35:46 AM

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

J:\DESIGN\19.358-1 Addison St SRTS Improvements\2021.08.XX_100 Plan\07_IMPROVEMENT PLAN.dwg@ 11:35:46 AM

NO.	REVISIONS	DATE

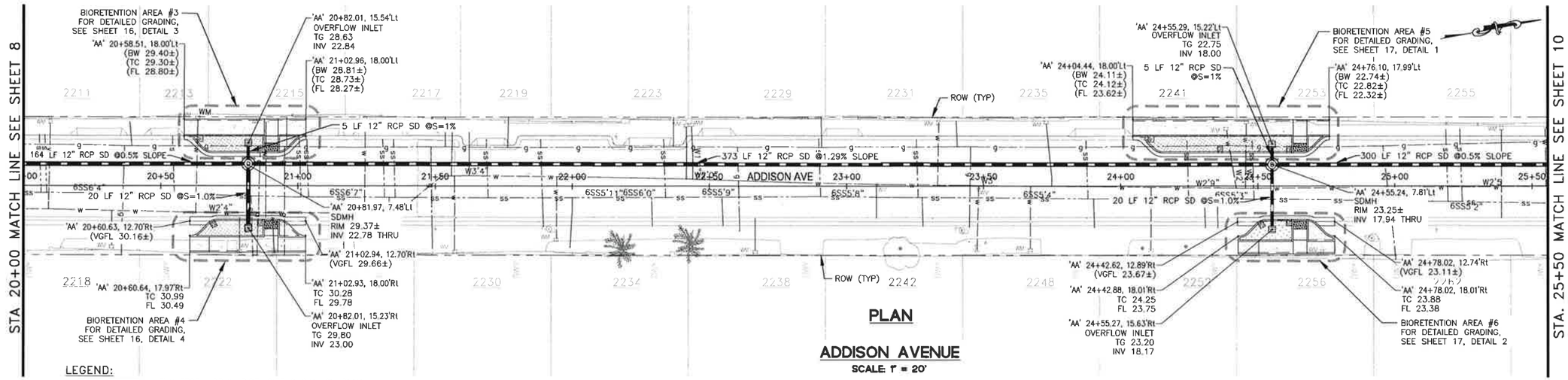
DESIGNED BY: CC/KS/LL
DRAWN BY: CC/JL

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

TITLE: IMPROVEMENTS PLAN & PROFILE
STA. 14+00 TO STA. 20+00
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 8 OF 29

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



PLAN

ADDISON AVENUE

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 20 40

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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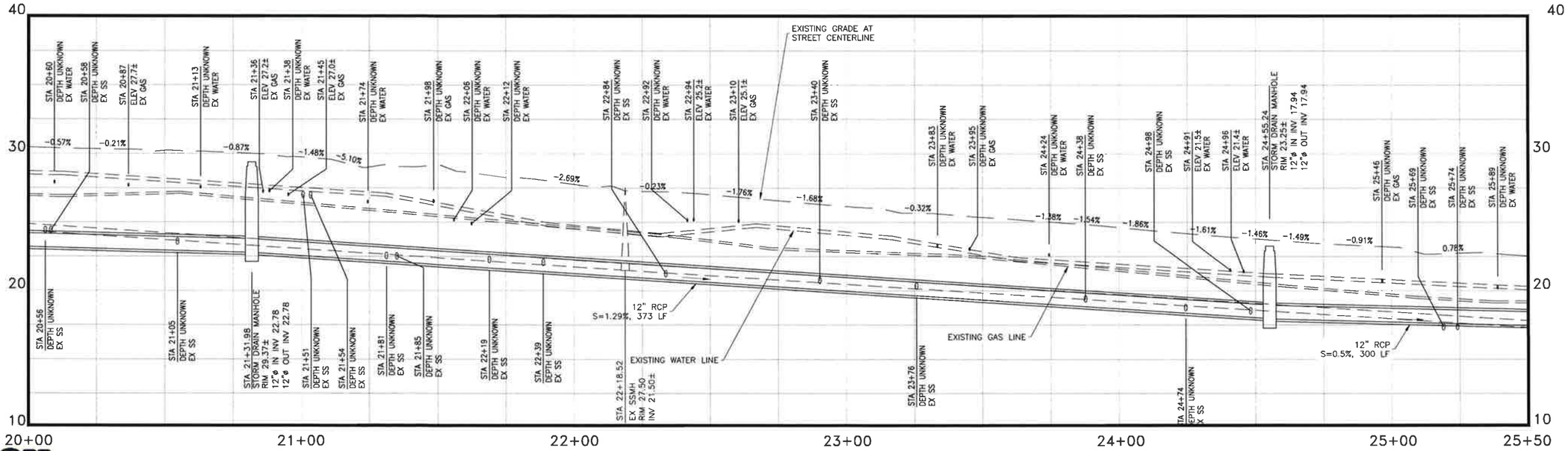


PROFILE

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

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

811 Know what's below. Call before you dig.

Plotted on: 02/11/22 @ 11:36:18 AM

J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\07 IMPROVEMENT PLAN.dwg@ 11:36:18 AM

NO.	REVISIONS	DATE

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

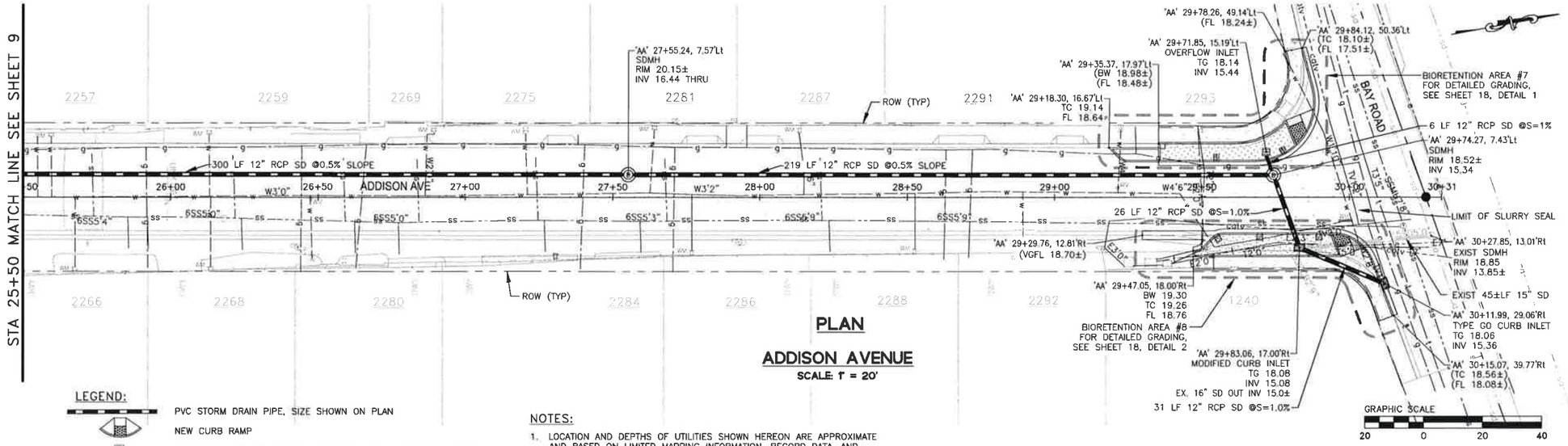
CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

TITLE: IMPROVEMENTS PLAN & PROFILE STA. 20+00 TO STA. 25+50 ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT

CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 9 OF 29

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



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.
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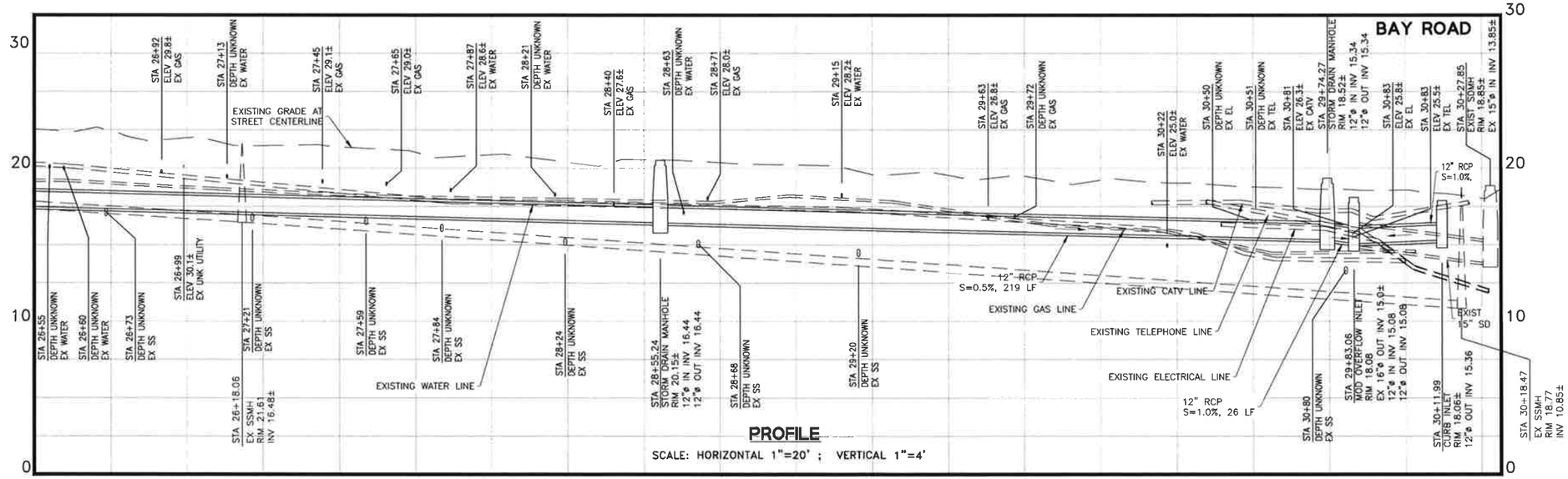

PROFILE

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

NO.	REVISIONS	DATE

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

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

Know what's below. Call before you dig.

Plotted on: 02/11/22 @ 11:36:48 AM

J:\DESIGN\19.358-1 Addison St SRTS Improvements\2021.08.XX 100 Plan\07 IMPROVEMENT PLAN.dwg@ 11:36:48 AM

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

LEGEND

(NO.)	STRIPING DETAIL
	YIELD LINE (1/13)
	SHARED ROADWAY BICYCLE MARKING (2/13) (CALTRANS/A24C)
	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:

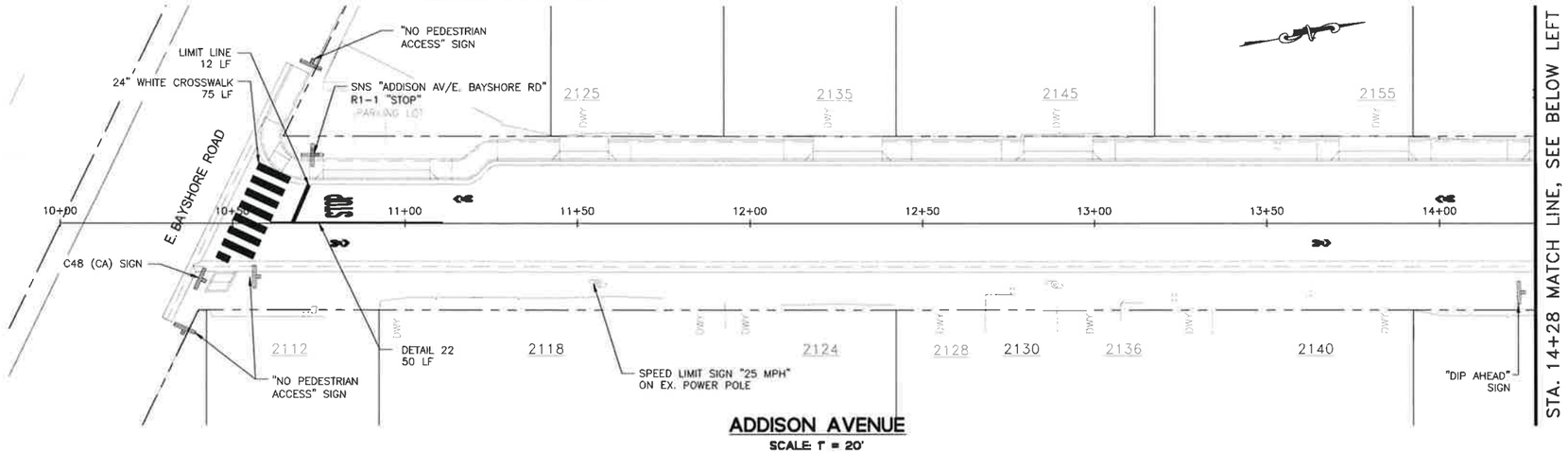
1. ALL STRIPING SHALL BE PER CALTRANS STANDARD PLANS, LATEST EDITION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY REMOVED OR DAMAGED STRIPING IN KIND AND/OR AS SHOWN ON THE SIGNAGE AND STRIPING PLAN.
3. ALL STRIPING AND LEGENDS SHALL BE THERMOPLASTIC.
4. CITY TO APPROVE CAT-TRACKING PRIOR TO 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.

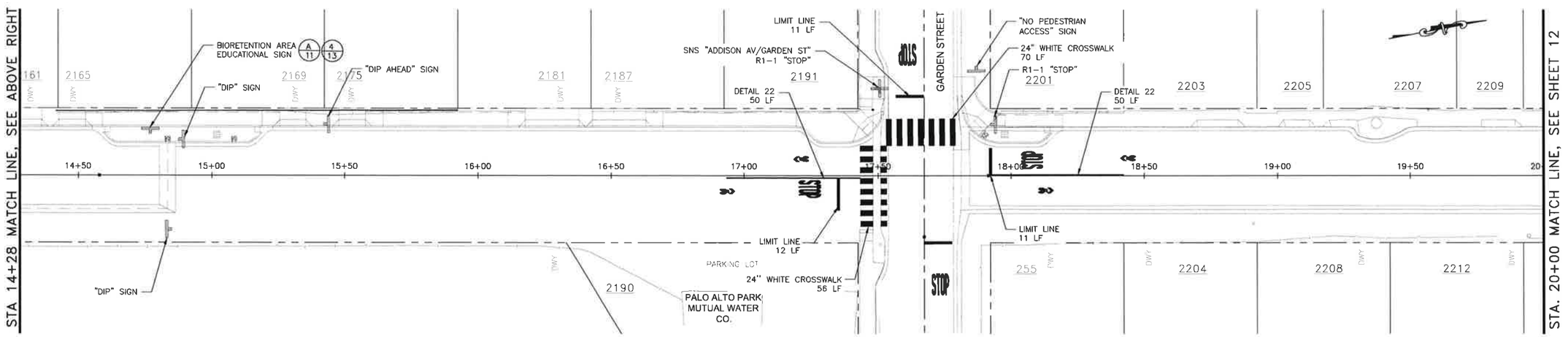
C48 (CA) SIGN

A-11 BIORETENTION AREA EDUCATIONAL SIGN PANEL INFORMATION

NOTE:

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





NO.	REVISIONS	DATE

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

SHEET 11 OF 29

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

J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\11_SIGNING&STRIPING PLAN.dwg Plotted on: 02/11/22 @ 11:39:58 AM

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

LEGEND

(NO.)	STRIPING DETAIL
	YIELD LINE (1/13)
	SHARED ROADWAY BICYCLE MARKING (2/13) (CALTRANS/A24C)
	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)

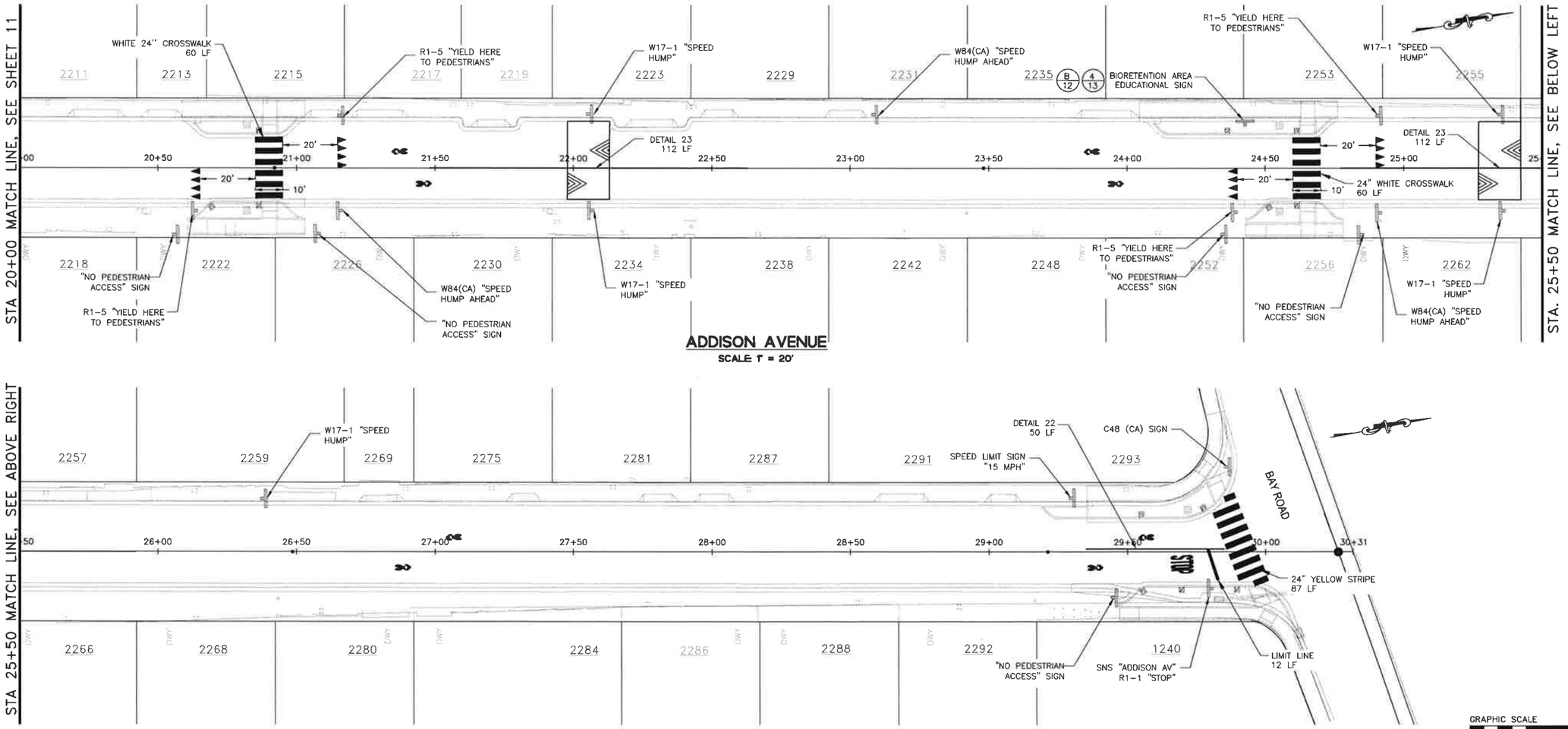
GENERAL STRIPING & SIGNAGE NOTES:

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.

B – BIORETENTION AREA EDUCATIONAL SIGN PANEL INFORMATION

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

C48 (CA) SIGN



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NO.	REVISIONS	DATE

DESIGNED BY: CC/KS/ZL
DRAWN BY: CC/IL
PREPARED BY:

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

SHEET 12 OF 29

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

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Plotted on: 02/11/22 @ 11:40:09 AM

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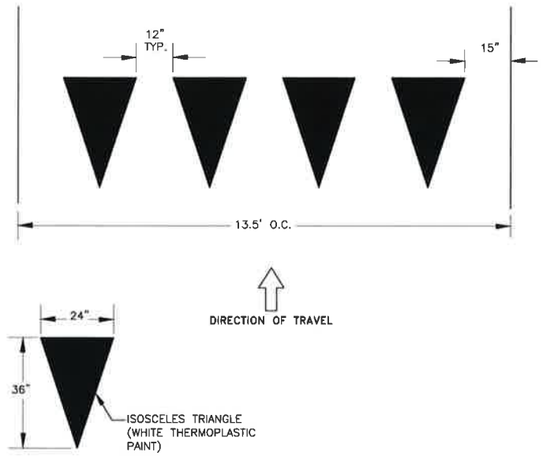
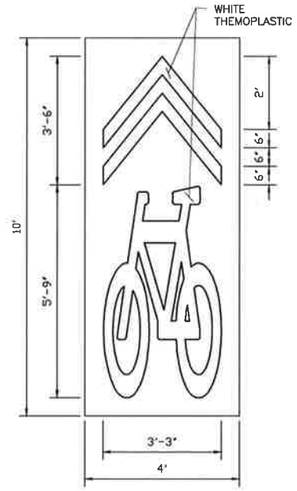


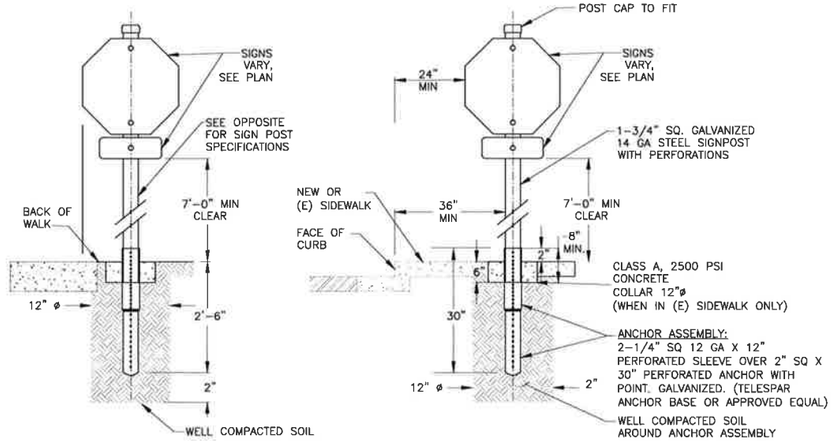
1 — YIELD LINE LAYOUT
N.T.S.

NOTES:

1. CONFORM TO CA MUTCD SECTION 9C.07.



2 — SHARED ROADWAY BICYCLE MARKING
N.T.S.



NEW SIGN—LANDSCAPING INSTALLATION

NEW SIGN ON SIDEWALK

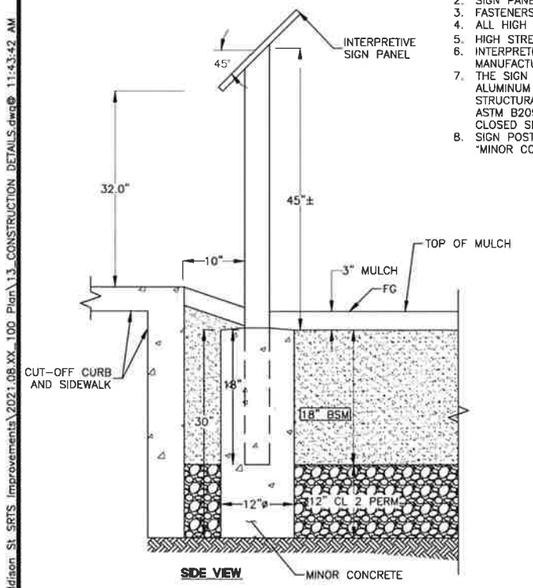
NOTES:

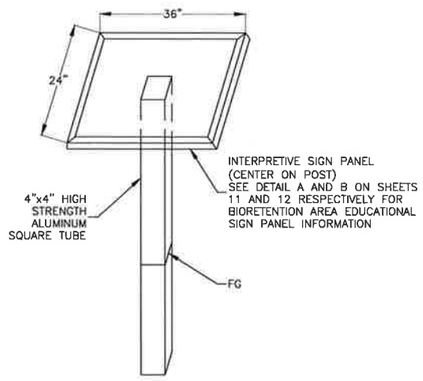
1. SIGNS SHALL COMPLY WITH LATEST CALIFORNIA MUTCD.
2. POST AND BASE FOR THE SIGN SHALL CONFORM TO THE SPECIFICATIONS.
3. SIGNS SHALL BE INSTALLED WITH STRAIGHT BOLTS FOR CONVENTIONAL SIGN INSTALLATION AND SQUARE POST SYSTEM CORNER—BOLTS FOR BACK TO BACK INSTALLATION, IF REQUIRED.

3 — SIGN POST DETAIL
N.T.S.

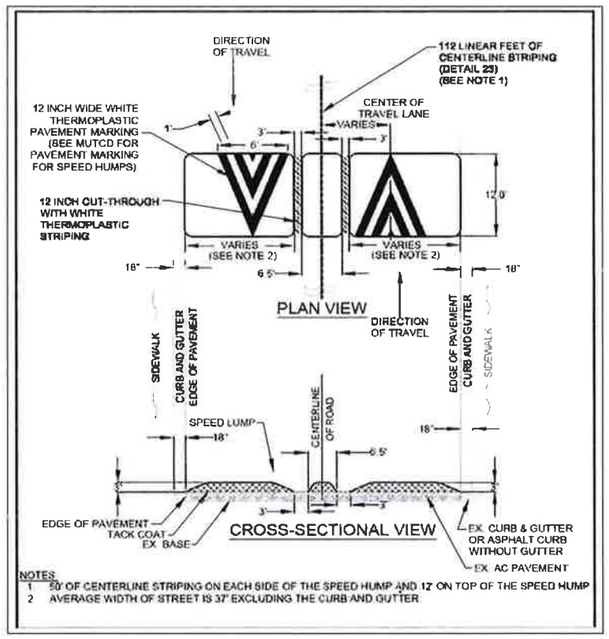
NOTE:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING MATERIALS.
2. SIGN PANEL SHALL BE MANUFACTURED OF HIGH PRESSURE LAMINATE.
3. FASTENERS SHALL BE STAINLESS STEEL.
4. ALL HIGH STRENGTH ALUMINUM AND STEEL COMPONENTS SHALL BE POWDER COATED.
5. HIGH STRENGTH ALUMINUM SHALL BE $\frac{1}{8}$" THICK MINIMUM.
6. INTERPRETIVE SIGN PANEL SHALL BE A FRAMELESS PEDESTAL MOUNT STYLE SIGN AS MANUFACTURED BY ENVIROSIGNS, VACKERSIGN, OR ENGINEER—APPROVED EQUIVALENT.
7. THE SIGN POST AND MOUNTING HARDWARE SHALL CONSIST OF HIGH STRENGTH ALUMINUM THAT IS POWDER COATED NPS FOREST GREEN, AND FABRICATED FROM STRUCTURAL SHAPES, FORMED SECTIONS, TUBING, AND SHEETING COMPLYING WITH ASTM B209. ALUMINUM MUST BE FREE OF DEFECTS AND BE UNIFORM IN APPEARANCE. CLOSED SECTIONS MUST BE MADE OF 1—PIECE TUBING.
8. SIGN POSTS SHALL BE SET IN MINOR CONCRETE CONFORMING TO SECTION 90—2, "MINOR CONCRETE", OF THE STATE STANDARD SPECIFICATIONS.





4 — EDUCATIONAL SIGN
N.T.S.



NOTES:
1 50' OF CENTERLINE STRIPING ON EACH SIDE OF THE SPEED HUMP AND 12 ON TOP OF THE SPEED HUMP
2 AVERAGE WIDTH OF STREET IS 37' EXCLUDING THE CURB AND GUTTER

5 — SPEED HUMP DETAIL
N.T.S.

NO.	REVISIONS	DATE

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

CSG CONSULTANTS
550 PILGRIM DRIVE
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PHONE (650)522-2500
FAX (650)522-2599

PREPARED BY:

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

SHEET 13 OF 29

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

J:\DESIGN\19.358-1_Addison St SRTS Improvements\2021.08.XX_100 Plan\13_CONSTRUCTION DETAILS.dwg@ 11:43:42 AM

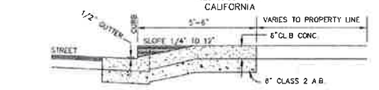
Plotted on: 02/11/22 @ 11:43:42 AM

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

SAN MATEO COUNTY DEPARTMENT
OF
PUBLIC WORKS
REDWOOD CITY
CALIFORNIA

DRAWN BY: D.P.
CHECK BY: J.A.L.
APPROVED BY: N.R.C.

SCALE: NONE
DATE: 6/95
REVISED: 4/97



SECTION

PLAN

ELEVATION

NOTE:
WHERE POSSIBLE, 22 FT. DISTANCES OR MULTIPLES OF 22 FT. DISTANCES SHOULD BE OBTAINED BETWEEN CURB OPENINGS. CONSTRUCT MONOLITHIC CURB, GUTTER, DRIVEWAY AND APRON. WHERE DRIVEWAYS OF SEPARATE RESIDENTIAL DWELLINGS ARE CONSTRUCTED ADJACENT TO ONE ANOTHER, DOUBLE THE DIMENSIONS SHOWN ABOVE. USE NO. 4 REINFORCING BAR DOWELS AS SHOWN ON STANDARD CURB, GUTTER AND SIDEWALK DETAIL.

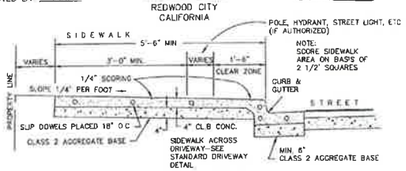
STANDARD STRUCTURES
DRIVEWAY WIDTHS AND CURB OPENINGS FOR SINGLE FAMILY RESIDENTIAL DWELLINGS

D-1

SAN MATEO COUNTY DEPARTMENT
OF
PUBLIC WORKS
REDWOOD CITY
CALIFORNIA

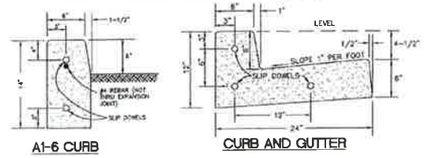
DRAWN BY: D.P.
CHECK BY: J.A.L.
APPROVED BY: N.R.C.

SCALE: NONE
DATE: 6/95
REVISED: 4/97



TYPICAL SECTION
URBAN CURB, GUTTER AND SIDEWALK

NOTE: OBSTRUCTIONS SUCH AS POLES, HYDRANTS, STREET SIGNS, UTILITY BOXES, STREET LIGHTS, ETC. SHALL BE LOCATED BEHIND THE SIDEWALK, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS. A CLEAR ZONE ALONG THE CURB AND SIDEWALK 18 INCHES IN WIDTH (MEASURED FROM THE FACE OF THE CURB) SHALL BE KEPT CLEAR AND OPEN FROM ALL OBSTRUCTIONS. IN ADDITION, AN AREA 3 FEET IN WIDTH ALONG THE SIDEWALK, EXCLUSIVE OF THE CURB WIDTH, SHALL BE KEPT CLEAR AND OPEN FROM ALL OBSTRUCTIONS IN COMPLIANCE WITH THE STATE BUILDING CODE (PART 2, TITLE 24, C.A.C.).



A1-6 CURB

CURB AND GUTTER

TYPICAL SECTIONS

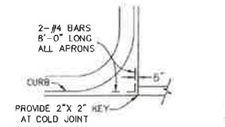
NOTES:
1. ALL CONCRETE TO BE CLASS B CONCRETE.
2. MINIMUM SIDEWALK THICKNESS = 4 INCHES P.C.C.
3. PLACE 1/2" DIAMETER X 18" LONG DOWELS AT EXPANSION JOINTS AS SHOWN.
4. PLACE 1/2" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER.
5. CONSTRUCT MONOLITHIC CURB, GUTTER AND SIDEWALK UNLESS OTHERWISE SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.
6. SUB-BASE MATERIALS WITHIN 30" OF SUBGRADE SHALL BE COMPACTED TO 95%.

D-3

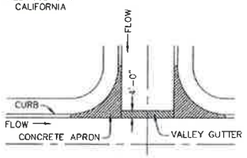
SAN MATEO COUNTY DEPARTMENT
OF
PUBLIC WORKS
REDWOOD CITY
CALIFORNIA

DRAWN BY: D.P.
CHECK BY: J.A.L.
APPROVED BY: N.R.C.

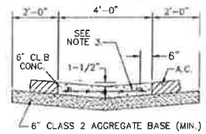
SCALE: NONE
DATE: 7/97
REVISED:



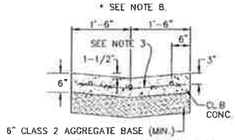
CONCRETE APRON



VALLEY GUTTER INTERSECTION PLAN



CONCRETE VALLEY GUTTER
AT STREET INTERSECTION



CONCRETE VALLEY GUTTER
AT NON-STREET INTERSECTION LOCATIONS

NOTES:
1. OMIT GUTTER AROUND RETURN. SLOPE ALL PARTS OF APRON FROM CURB TO NEAREST FLOW LINE WITHIN LIMITS OF VALLEY GUTTER.
2. APRON TO BE 6" MIN. THICK CL B P.C.C. OVER MIN. 6" COMPACTED CL 2 AGG. BASE.
3. REINFORCEMENT SHALL CONSIST OF 6"X 6"-#10/#10 WELDED WIRE FABRIC.
4. APRONS SHALL BE POURED MONOLITHIC WITH ADJACENT CURB AND GUTTER.
5. CONCRETE VALLEY GUTTER AND APRONS SHALL BE INSTALLED PRIOR TO PAVING.
6. PLACE 1/2" DIAMETER X 18" LONG DOWELS, AT EXPANSION JOINTS, AS SHOWN.
7. PLACE 1/4" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER. DEEP SCORE AT 10' INTERVALS BETWEEN EXPANSION JOINTS.
8. WIDTH OF VALLEY GUTTER SHALL BE AS DETERMINED BY DPW.

VALLEY GUTTER DETAILS

D-5

SAN MATEO COUNTY DEPARTMENT
OF
PUBLIC WORKS
REDWOOD CITY
CALIFORNIA

DRAWN BY: A.G.M.
CHECK BY: R.L.F.
APPROVED BY: N.R.C.

SCALE: NONE
DATE: 6/95
REVISED: 4/97

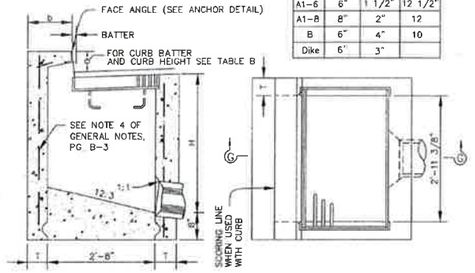


TABLE B

Curb Type	Normal Curb Height	Curb Batter	b
A1-6	6"	1 1/2"	12 1/2"
A1-8	8"	2"	12
B	6"	4"	10
Dike	6"	3"	

SECTION G-G

PLAN

INLET
TYPE GO

CATCH BASIN QUANTITY TABLE

	H=3'-0" TO 8'-0" (T=6")		H=8'-1" TO 20'-0" (T=8")	
	"H=3'-0"	ADDITIONAL P.C.C. PER FT. (C.Y.)	H=8'-1"	ADDITIONAL P.C.C. PER FT. (C.Y.)
GO	1.24	0.245	3.39	0.346

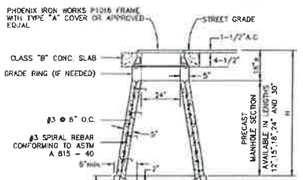
TABLE BASED ON 8" FLOOR SLAB, NO DEDUCTION FOR PIPE OPENINGS, AND CURB TYPE GIVING HIGHEST QUANTITY OF CONCRETE. NO DEDUCTIONS OR ADJUSTMENTS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES OR DIFFERENT CURB TYPE.

B-1

SAN MATEO COUNTY DEPARTMENT
OF
PUBLIC WORKS
REDWOOD CITY
CALIFORNIA

DRAWN BY: A.G.M.
CHECK BY: R.L.F.
APPROVED BY: N.R.C.

SCALE: NONE
DATE: 6/95
REVISED:



SECTION

PLAN

NOTES:
1. ALL PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN STRICT ACCORDANCE WITH THE LATEST PROVISIONS OF A.S.T.M. DESIGNATION C-478.
2. ALL 48" PRECAST SECTIONS SHALL HAVE 5" THICK WALLS.
3. MANHOLE BASE TO BE POURED ON UNDISTURBED EARTH OR ON 95% COMPACTED SOIL.
4. MANHOLE CASTING TO BE SET TO GRADE PRIOR TO PLACING 1-1/2" A.C. PATCH.
5. FOR STEPS SEE COUNTY STANDARD CATCH BASIN STEP DETAIL.

STORM DRAIN MANHOLE-SHALLOW COVER (H ≤ 42")
(FOR PIPES 42" I.D. OR LESS)

NO SCALE

B-12

NO.	REVISIONS	DATE

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

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

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

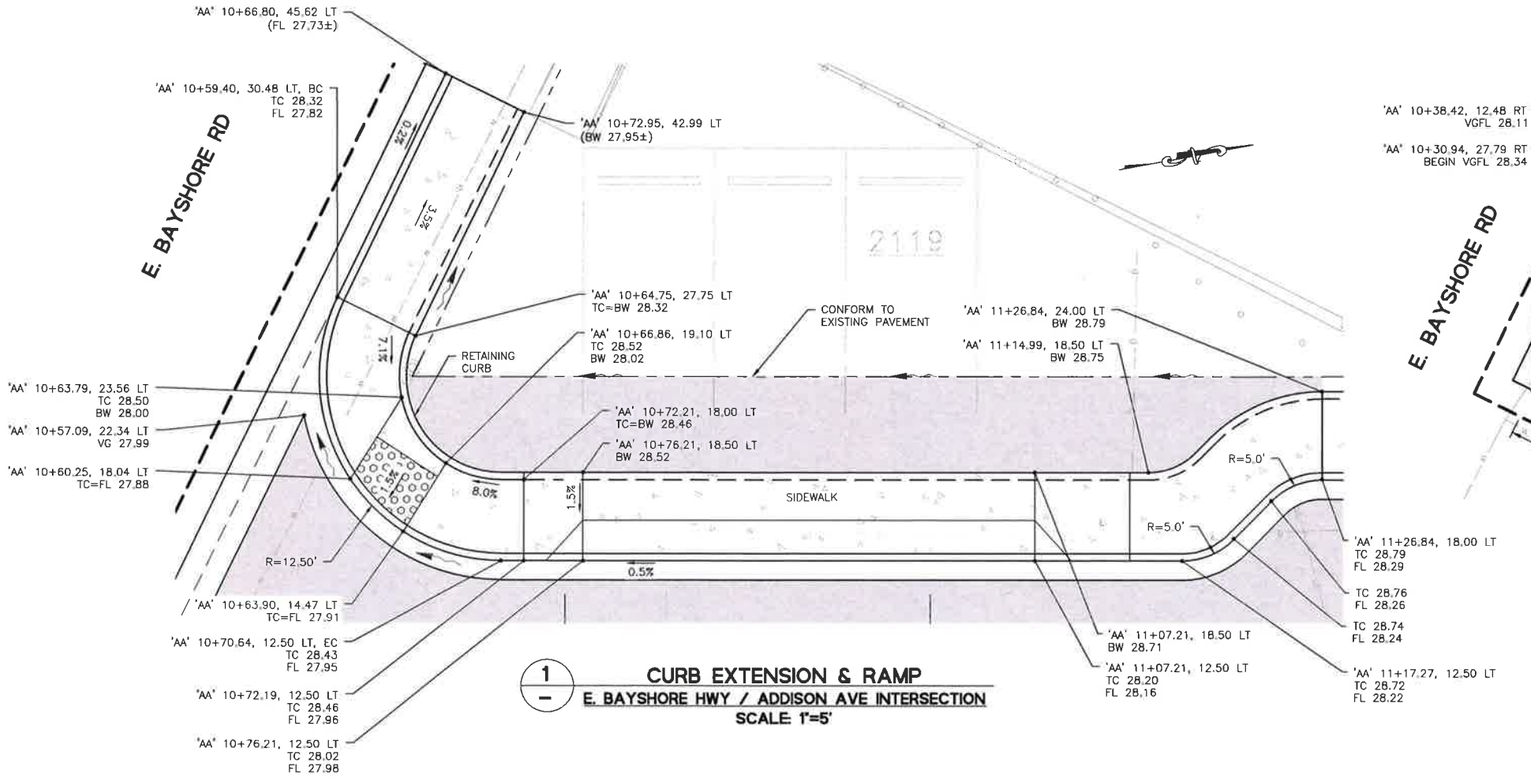
SHEET 14
OF
29

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

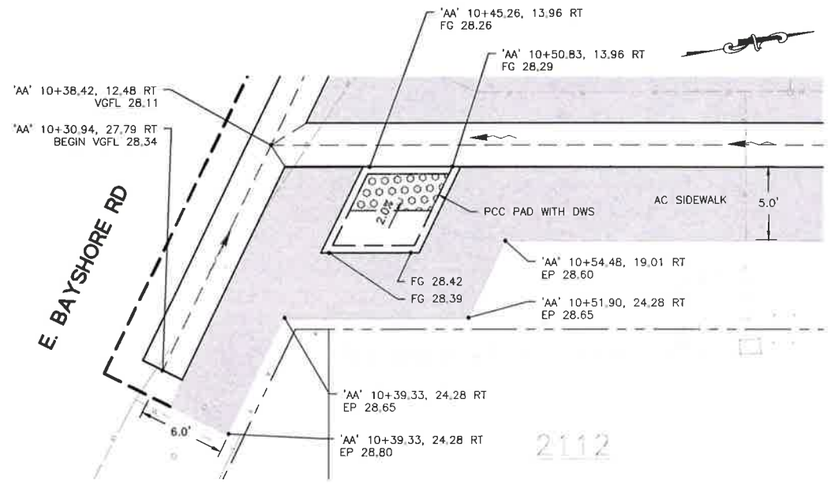
J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.xx_100 Plan\13_CONSTRUCTION DETAILS.dwg@ 11:43:52 AM

Plotted on: 02/11/22 @ 11:43:52 AM

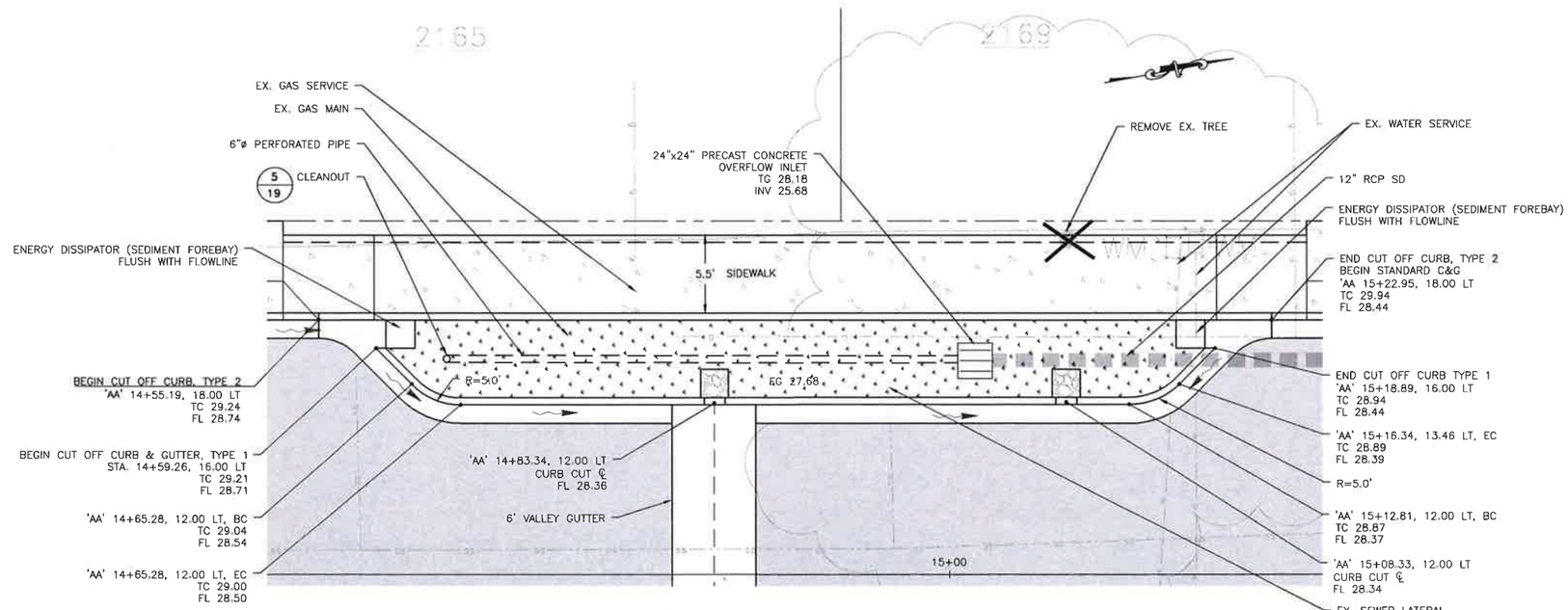
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES 0 1 2 3



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

1. CAD FILES MAY BE OBTAINED FROM CSG CONSULTANTS FOR ADDITIONAL HORIZONTAL CONTROL DATA NOT PRESENTED HEREON (SUCH AS ANGULAR DIMENSIONS OR BEARINGS).
2. FINISH GRADE OF BOTTOM OF BIORETENTION AREAS SHALL BE FLAT UNLESS OTHERWISE NOTED.
3. 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.
4. 6"ø HDPE TUBING SUBDRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN.

NO.	REVISIONS	DATE

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

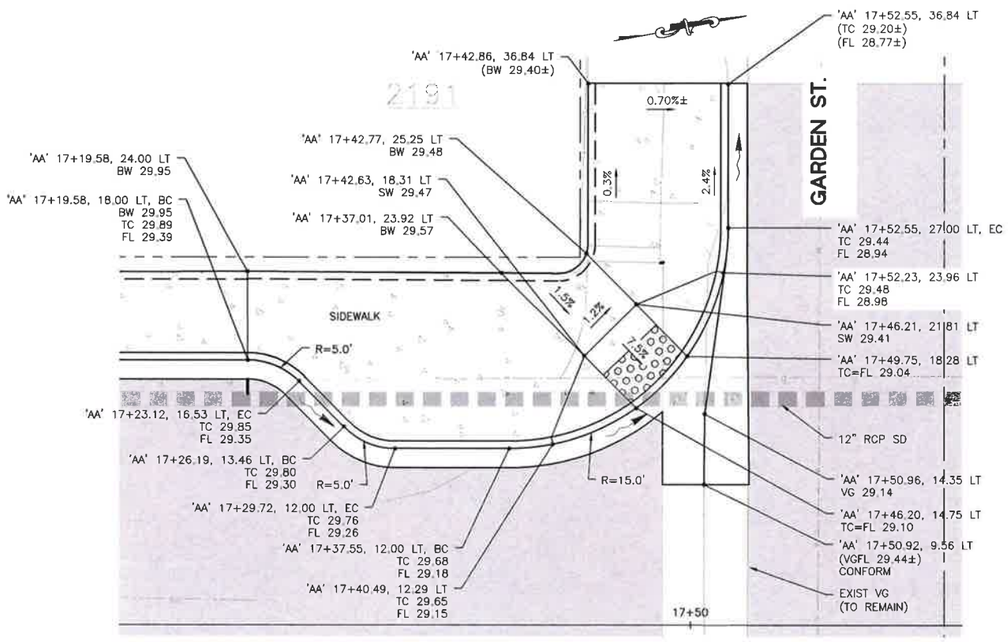
SHEET 15 OF 29

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

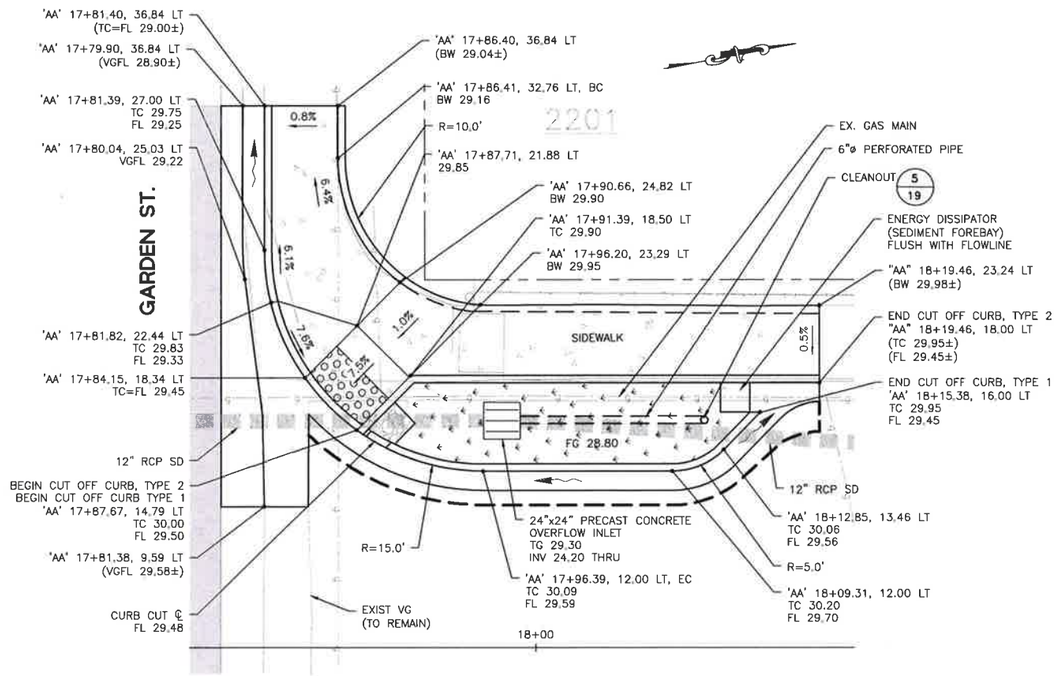
J:\DESIGN\19.358-1_Addison St. SRTS Improvements\2021.08.XX_100 Plan\15_BIORETENTION LAYOUTS.dwg@ 11:58:23 AM

Plotted on: 02/11/22 @ 11:58:23 AM

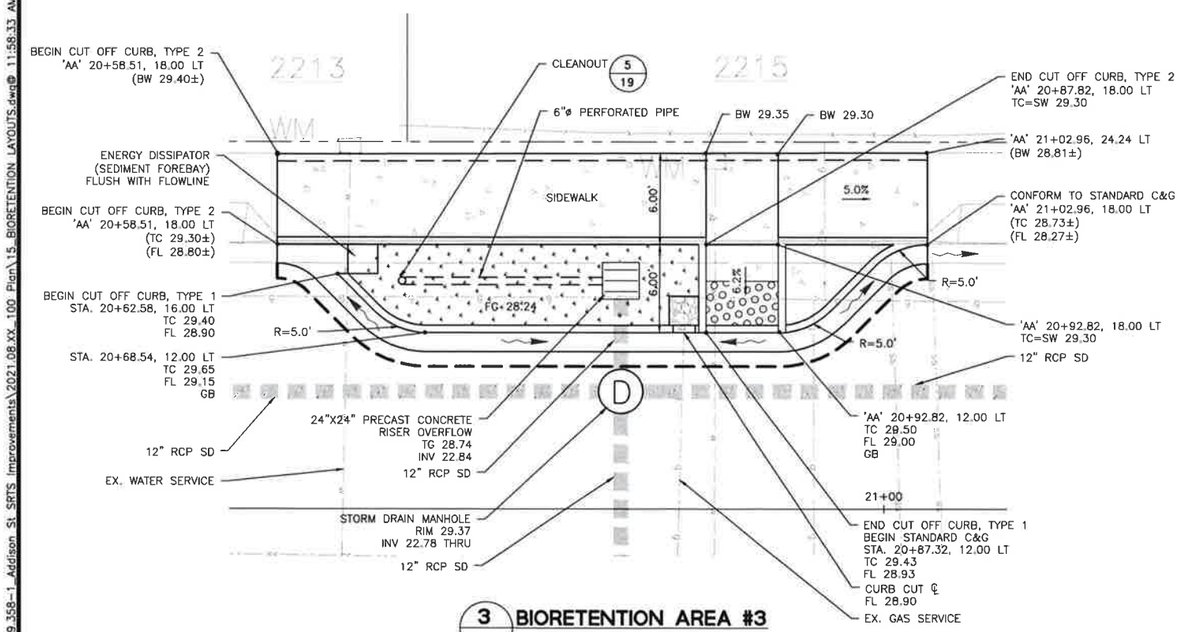
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3



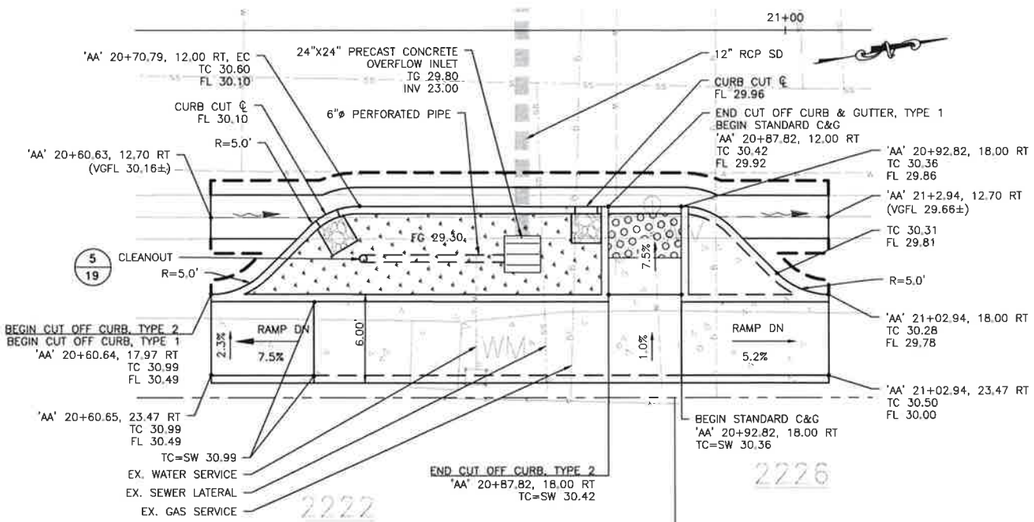
1 — CURB EXTENSION & RAMP
STA. 17+29 TO 17+53
SCALE: 1"=5'



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'

GRAPHIC SCALE
5 0 5 10

NO.	REVISIONS	DATE

DESIGNED BY: CCK/SLL
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

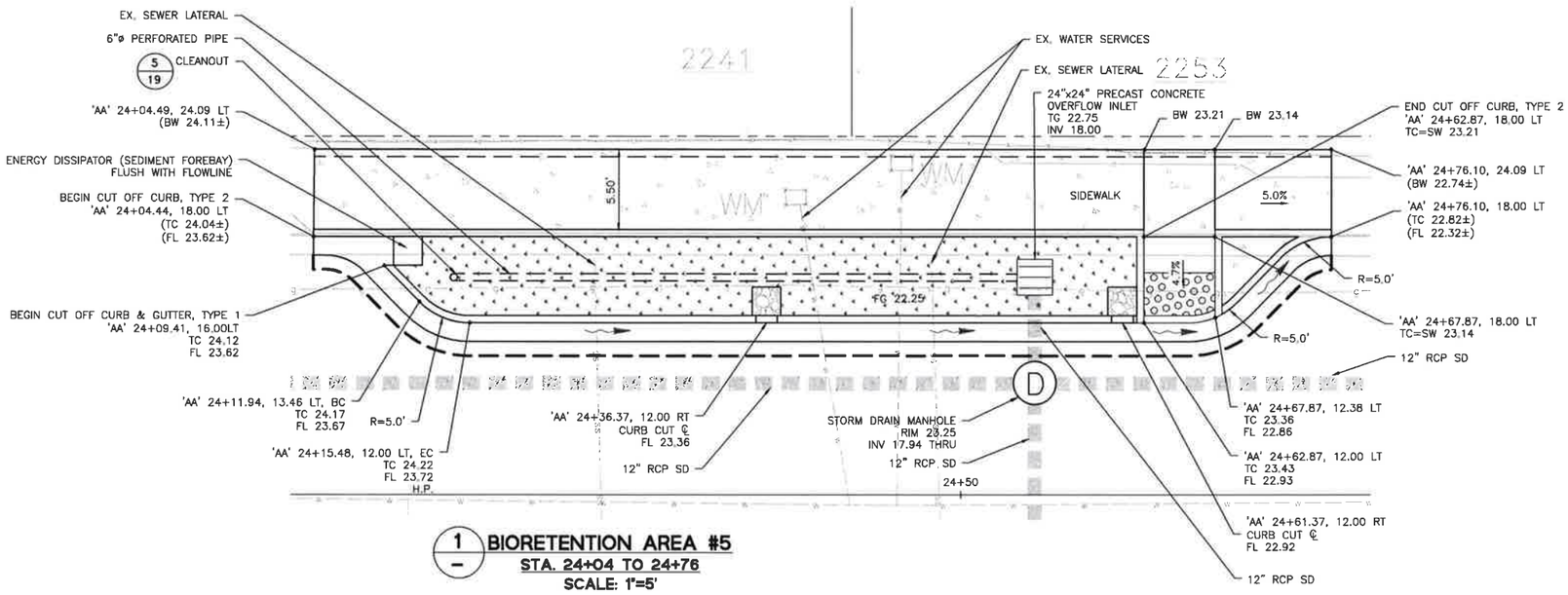
SHEET 16 OF 29

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

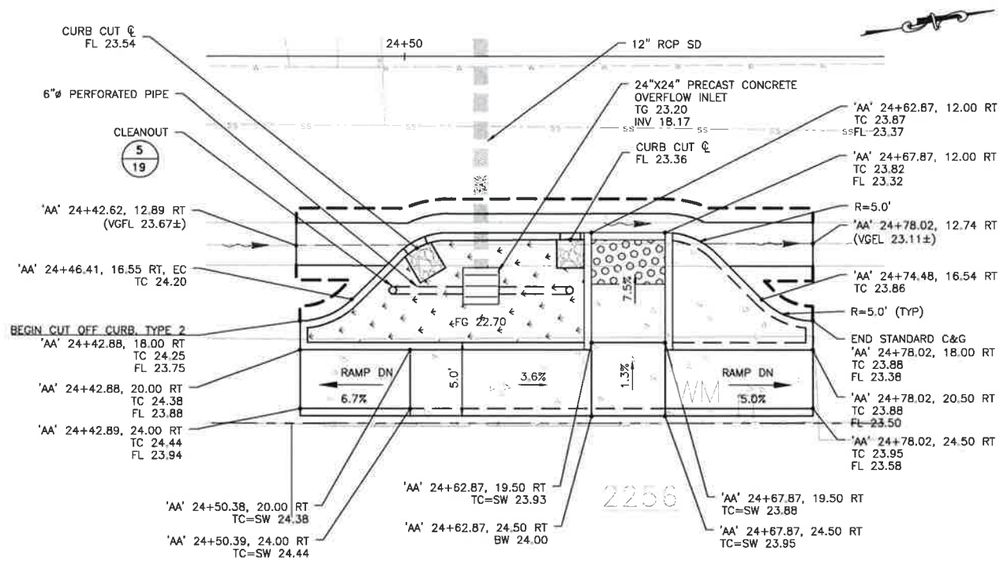
J:\DESIGN\19.358-1 Addison St SRTS Improvements\2021.08.XX 100 Plan\15_BIORETENTION LAYOUTS.dwg @ 11:58:33 AM

Plotted on: 02/11/22 @ 11:58:33 AM

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



1/– BIORETENTION AREA #5
STA. 24+04 TO 24+76
SCALE: 1"=5'



2/– BIORETENTION AREA #6
STA. 24+42 TO 24+78
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

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

Plotted on: 02/11/22 @ 11:58:41 AM

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NO.	REVISIONS	DATE

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

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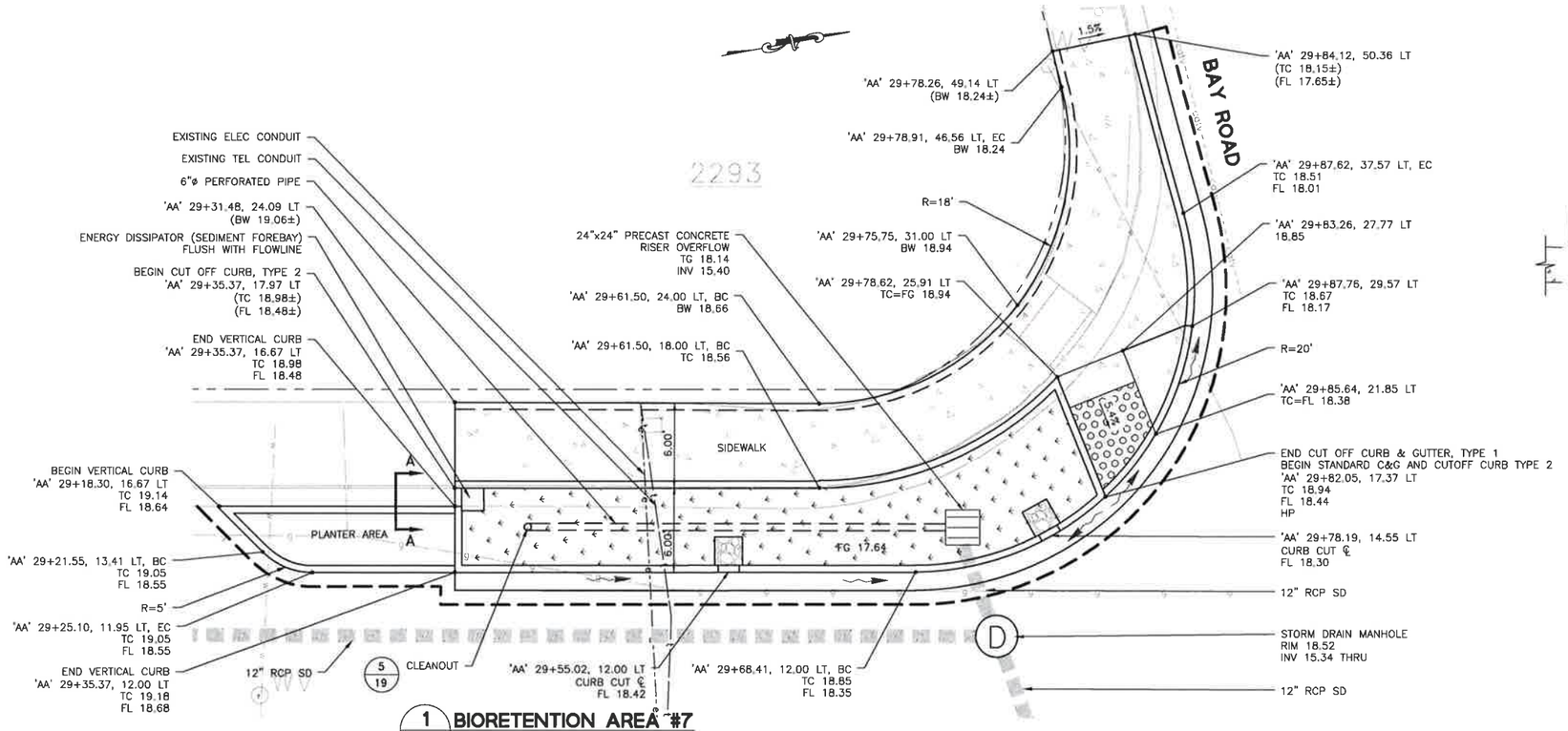
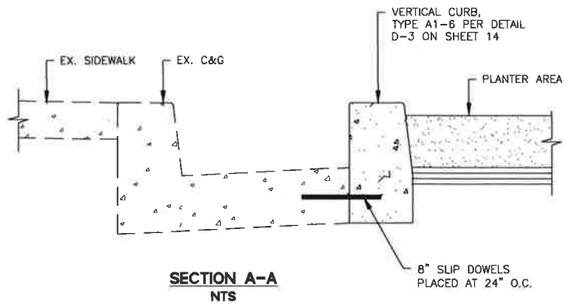
TITLE: CURB EXTENSIONS AND BIORETENTION AREA LAYOUTS AND DETAILS
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 17 OF 29

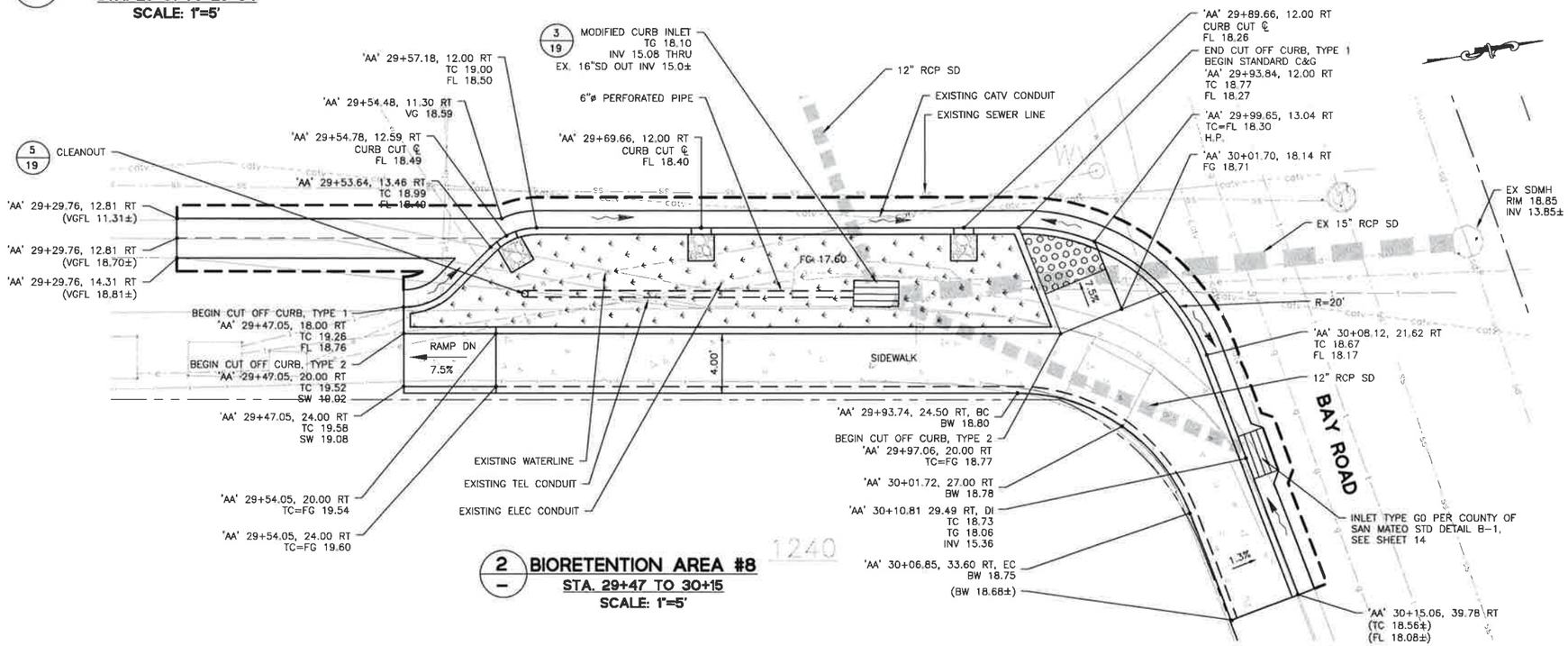
DATE: 2/14/2022
JOB NO.: CIP-ST-26



1/– BIORETENTION AREA #7
STA. 29+31 TO 29+84
SCALE: 1"=5'



SECTION A-A
NTS



2/– BIORETENTION AREA #8
STA. 29+47 TO 30+15
SCALE: 1"=5'

GRAPHIC SCALE
5 0 5 10

NO.	REVISIONS	DATE

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

PREPARED BY:
CSG CONSULTANTS
550 PILGRIM DRIVE
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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 18 OF 29

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

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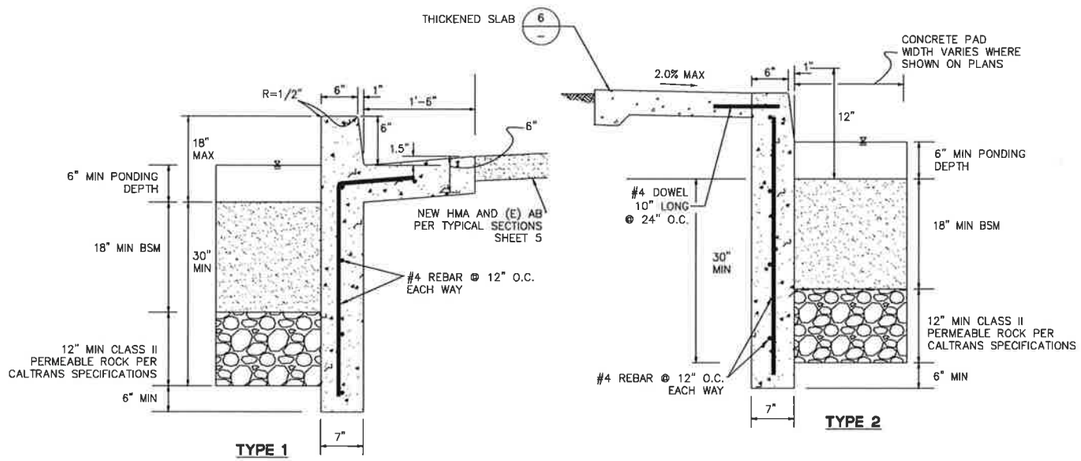
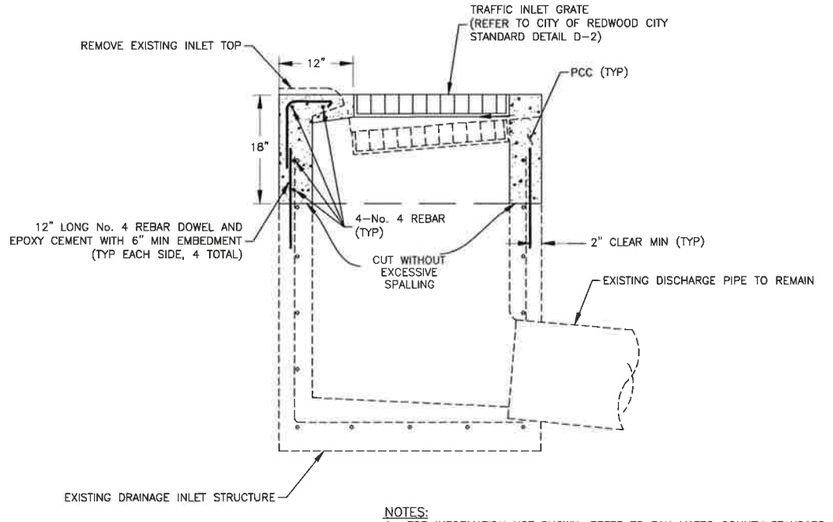
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3



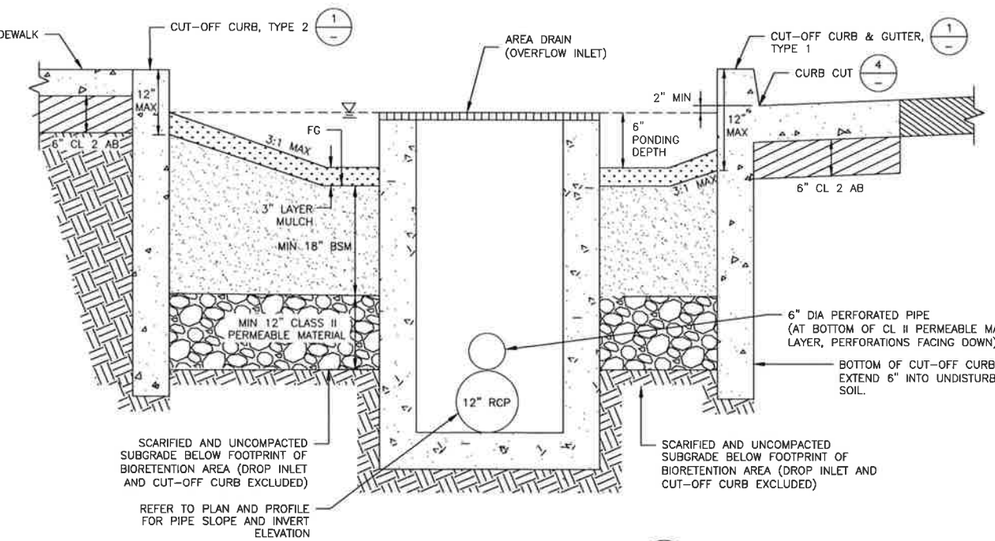
*BSM – BIO SOIL MIX, SEE PROJECT SPECIFICATIONS

1 – CUT-OFF CURBS
N.T.S.



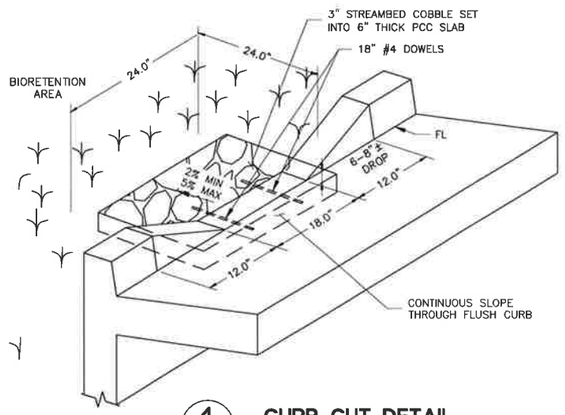
NOTES:
1. FOR INFORMATION NOT SHOWN, REFER TO SAN MATEO COUNTY STANDARD PLAN B-1 (SEE SHEET 14).
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS DURING CONSTRUCTION.

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



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

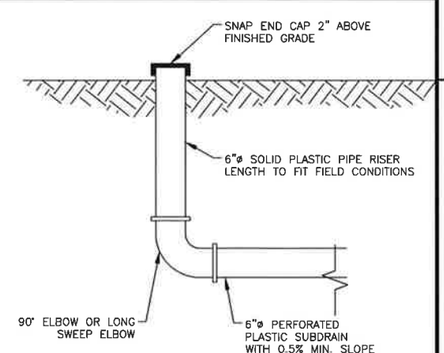
2 – BIORETENTION AREA TYPICAL SECTION
N.T.S.



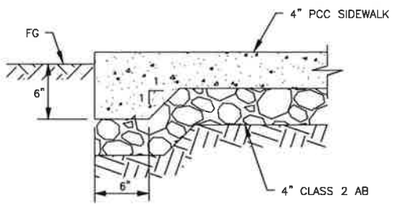
NOTE:

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.

4 – CURB CUT DETAIL
N.T.S.



5 – CLEANOUT DETAIL
N.T.S.



6 – THICKENED SLAB DETAIL
N.T.S.

NO.	REVISIONS	DATE

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

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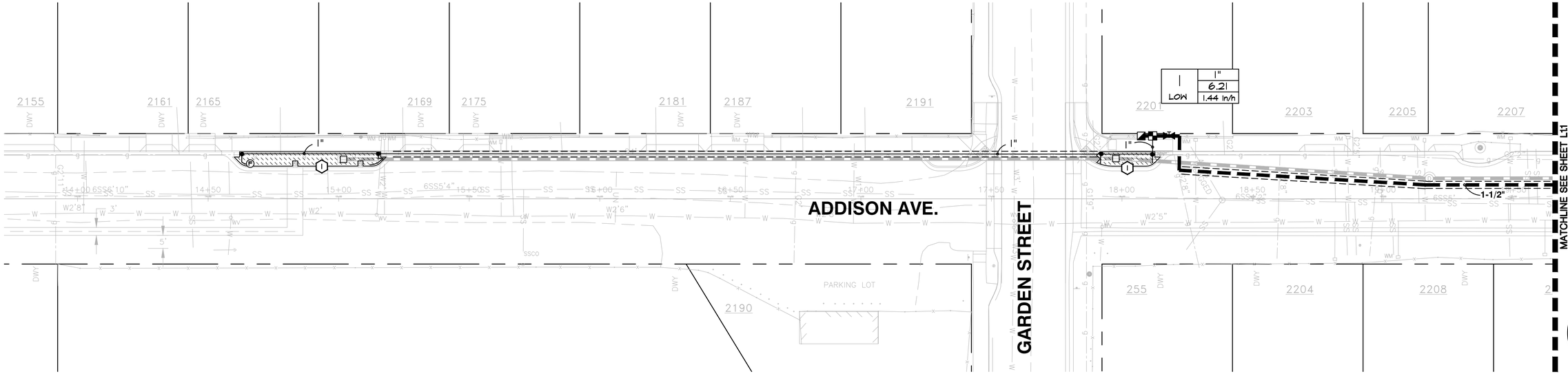
TITLE: BIORETENTION AREA TYPICAL SECTION AND DETAILS
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 19 OF 29

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

J:\DESIGN\19.358-1_Addison_St_SRTS_Improvements\2021.08.XX_100_Plans\19_SECTION_DETAILS.dwg Plotted on: 02/11/22 @ 12:06:42 PM

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



0 10' 20' 40'

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	IN-LINE DRIP IRRIGATION, RAINBIRD XFS-CV-09-12, 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)
C	CONTROLLER, RAINMASTER, RME06EG-SPED, IN STAINLESS STEEL ENCLOSURE PEDESTAL (1/L3.0)
BF	BACKFLOW PREVENTER, FEBCO 825Y, 1" SIZE (2/L3.0)
MV	MASTER VALVE, SUPERIOR 3300, 1-1/2" SIZE, NORMALLY OPEN (3/L3.0)
F	FLOW SENSOR, IRRITROL, FS-10, 1" SIZE (4/L3.0)
M	WATER METER, 1" SIZE, COORDINATE INSTALLATION WITH WATER AGENCY
	DRIP HEADER, SCH 40 PVC, 3/4" SIZE (4/L3.1)
	LATERAL / HEADER CONNECTION
R	RAIN SENSOR, IRRITROL RS-1000, WIRELESS. INSTALL ON STREET LIGHT AS DIRECTED BY CITY. VERIFY WIRELESS CONNECTION TO CONTROLLER.

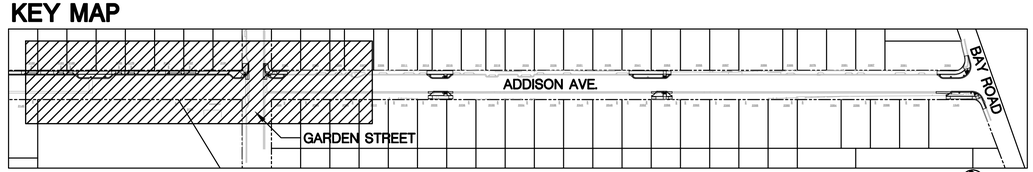
	LATERAL LINE, SCH 40 PVC, SIZE PER PLAN (2/L3.1)
	MAINLINE, SCH 40 PVC, SIZE PER PLAN
	SERVICE LINE, TYPE K COPPER, SIZE PER PLAN
	SLEEVE, SCH 40 PVC, DIAMETER = 2X IRRIGATION PIPE DIAMETER
	QUICK COUPLING VALVE, RAIN BIRD 44-LRC (6/L3.0)
	GATE VALVE, NIBCO T-113, LINE SIZE, INSTALL IN VALVE BOX (5/L3.0)
P	MANUAL FLUSH VALVE, RAINBIRD, MDCFCAP FLUSH CAP WITH MDCFCOUP COUPLING, INSTALL AT LOW END OF DRIP HEADER LINE (5/L3.1)
1	VALVE NUMBER FOR DRIP AREA

VALVE CALLOUT
VALVE NUMBER
VALVE SIZE
VALVE FLOW
PRECIPITATION RATE
WATER-USE

FOR IRRIGATION NOTES SEE SHEET L1.2

Know what's below. Call before you dig. 811

KEY MAP



N.T.S.

L1.0

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

Plotted on: 02/15/22 @ 07:27:46 PM

\\a5fcallsm\wp\Projects\2019 Projects\19043_AddisonAvenueEPA\3_ConstructionDocuments\19043_IR.dwg@ 07:27:46 PM

NO.	REVISIONS	DATE

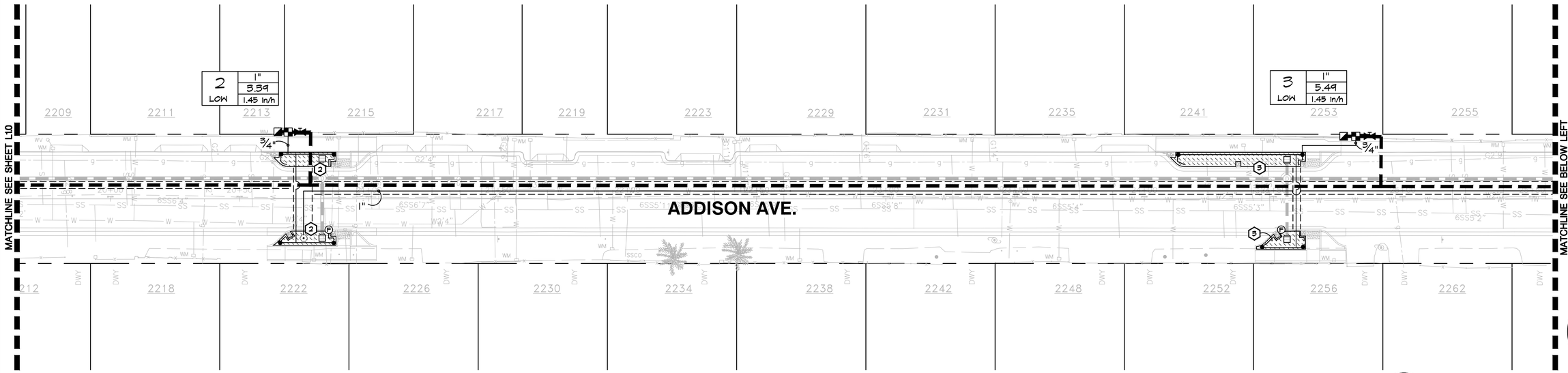
DESIGNED BY: MR
DRAWN BY: DC

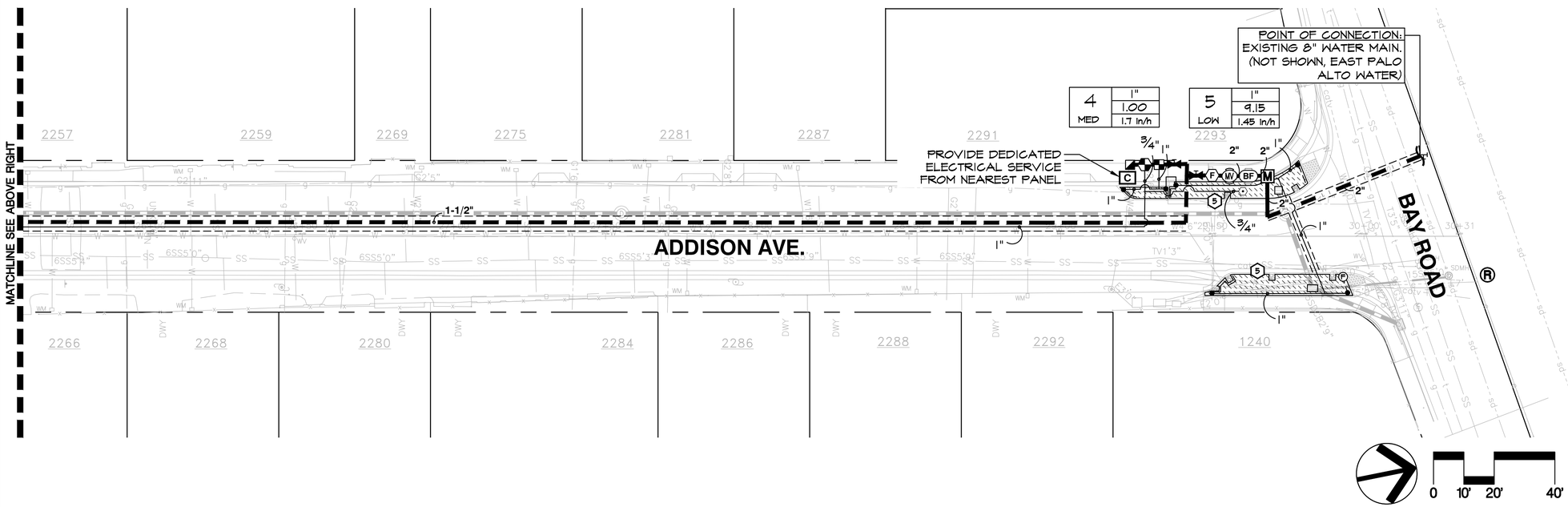
PREPARED BY:
CALLANDER ASSOCIATES LANDSCAPE ARCHITECTURE
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

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

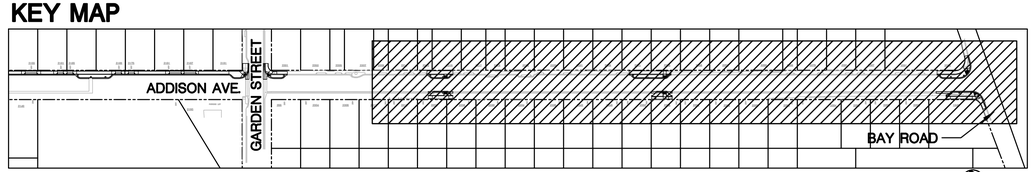
SHEET 20 OF 29

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





KEY MAP



N.T.S.

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

Know what's below. Call before you dig.

L1.1

NO.	REVISIONS	DATE

DESIGNED BY: MR
DRAWN BY: DC

PREPARED BY:
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
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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

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Plotted on: 02/15/22 @ 07:27:51 PM

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

IRRIGATION NOTES

1. SPECIFICATIONS: SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. 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.
3. 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.
4. 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 GROUNDCOVER OR SHRUB AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED OUTSIDE OF BIO-RETENTION. VALVES IN PAVEMENT SHALL BE INSTALLED IN CONCRETE VALVE BOXES.
5. 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.
6. 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.
7. 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.
8. BACKFLOW ASSEMBLY: CONTRACTOR SHALL CONNECT THE BACKFLOW ASSEMBLY WITH THE WATER METER USING 2" COPPER TYPE K LINE BURIED A MINIMUM OF 18 INCHES.
9. 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.
10. 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 Fletcher BRIAN G. FLETCHER
SIGNATURE

811 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 (ETo) 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)[e]	19,675

[a] Hydrozone #/Planting Description
E.g
1.) front lawn
2.) low water use plantings
3.) medium water use planting

[b] Irrigation Method
overhead spray or drip

[c] Irrigation Efficiency
0.75 for spray head
0.81 for drip

[d] ETWU **(Annual Gallons Required) =**
Eto 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.

[e] MAWA (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.

[f] Plant 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**

All Landscape Areas

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

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

IRRIGATION SCHEDULE NOTES

1. 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.
2. 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.
3. 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.
4. 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 (KI)	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
									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%	
1	Shrubs	Low	0.20	6.21	1.45	Drip	0.81	0.20	Minutes per Cycle	5	6	9	12	14	16	16	16	12	10	6	5	
									Days per Month	2	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	
									Total Minutes per Month	20	24	36	48	56	64	64	64	48	40	24	20	
									Total Gallons	124	149	224	298	348	397	397	397	298	248	149	124	3,155
2	Shrubs	Low	0.20	3.39	1.44	Drip	0.81	0.20	Minutes per Cycle	5	6	9	12	14	16	16	16	12	10	6	5	
									Days per Month	2	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	
									Total Minutes per Month	20	24	36	48	56	64	64	64	48	40	24	20	
									Total Gallons	68	81	122	163	190	217	217	217	163	136	81	68	1,722
3	Shrubs	Low	0.20	5.49	1.45	Drip	0.81	0.20	Minutes per Cycle	4	5	8	10	12	14	14	13	10	8	5	4	
									Days per Month	2	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	
									Total Minutes per Month	16	20	32	40	48	56	56	52	40	32	20	16	
									Total Gallons	88	110	176	220	264	307	307	285	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	16	12	10	6	5	
									Days per Month	2	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	
									Total Minutes per Month	20	24	36	48	56	64	64	64	48	40	24	20	
									Total Gallons	20	24	36	48	56	64	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	16	12	10	6	5	
									Days per Month	2	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	
									Total Minutes per Month	20	24	36	48	56	64	64	64	48	40	24	20	
									Total Gallons	166	199	299	399	465	532	532	532	399	332	199	166	4,221
																					Total Gallons Per Year	**11,956**

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:

1. ✓ PROJECT INFORMATION
2. ✓ WATER EFFICIENT LANDSCAPE WORKSHEET
3. ___ *SOIL MANAGEMENT REPORT
4. ✓ LANDSCAPE DESIGN PLAN (SEE SHEET L2.0-L2.2)
5. ✓ IRRIGATION DESIGN PLAN (SEE SHEET L1.0-L1.1)
6. ✓ GRADING DESIGN (SEE SHEET 7 TO 10)
7. ___ *CERTIFICATE OF COMPLETION
8. ___ *CERTIFICATE OF INSTALLATION
9. ✓ IRRIGATION SCHEDULE
10. ___ *MAINTENANCE SCHEDULE
11. ___ **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

1. CERTIFICATION OF COMPLETION: LANDSCAPE DOCUMENTATION SHALL MEET THE REQUIREMENTS DESCRIBED IN THE CITY OF EAST PALO CODE OF ORDINANCES, CHAPTER 17.06 - WATER CONSERVATION IN LANDSCAPING ORDINANCE. REFER TO SECTION 17.06.120 FOR CERTIFICATE OF COMPLETION REQUIREMENTS.
2. IRRIGATION PLAN CONTROLLER COPY: THE CONTRACTOR SHALL PLACE A LAMINATED 11X17 COPY OF THE IRRIGATION PLAN SHOWING THE HYDROZONES WITHIN THE IRRIGATION CONTROLLER(S) CABINET FOR FUTURE MANAGEMENT USE.

NO.	REVISIONS	DATE

DESIGNED BY: MR
DRAWN BY: DC

LICENSED LANDSCAPE ARCHITECT — Brian Fletcher — Signature — Date 2/15/2022 — STATE OF CALIFORNIA

PREPARED BY:
CALLANDER ASSOCIATES
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

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

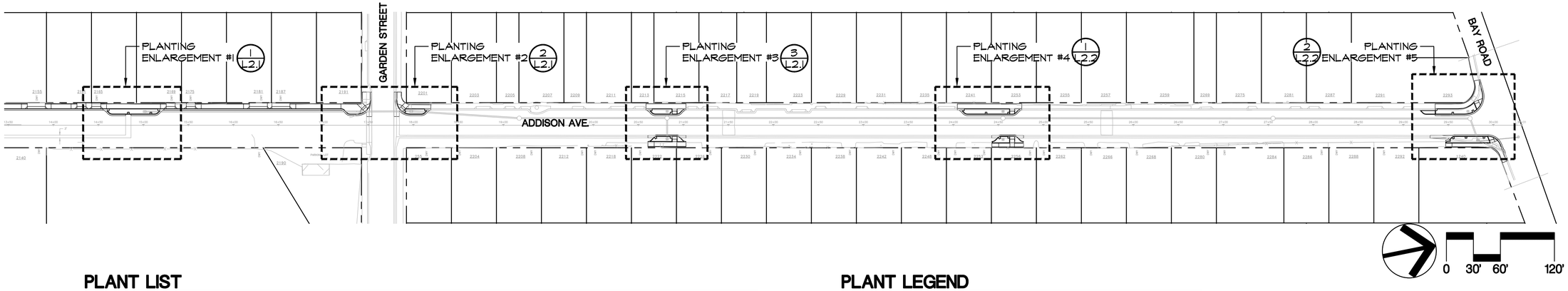
SHEET 22 OF 29

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

L1.2

\\a05\callsm\wp\Projects\2019 Projects\19043_AddisonAvenueEPA\3_ConstructionDocuments\19043_IR.dwg@ 07:27:54 PM
Plotted on: 02/15/22 @ 07:27:54 PM

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



PLANT LIST

TREES	BOTANICAL / COMMON NAME	SIZE	WUCOLS	SPACING:
ACE NEG	ACER NEGUNDO / BOX ELDER	24" BOX	MED	AS SHOWN

SHRUBS	BOTANICAL / COMMON NAME	SIZE	WUCOLS	SPACING
ACH MIL	ACHILLEA MILLEFOLIUM / COMMON YARROW	1 GAL	LOW	AS SHOWN
GRI HIR	GRINDELIA HIRSUTULA / GUMWEED	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	WUCOLS	SPACING
	DESCHAMPSIA CESPITOSA HOLCIFORMIS / CALIFORNIA HAIR GRASS	1 GAL	LOW	24" o.c.
	JUNCUS PATENS / COMMON RUSH	1 GAL	LOW	30" o.c.

PLANT LEGEND

TREE, 24" BOX SIZE (2 / L3.2)

SHRUB MASS (3 / L3.2)

PLANTING NOTES

1. MULCH: INSTALL A UNIFORM THREE INCH COVERING OF MULCH IN ALL PLANTING AREAS, PER SPECIFICATIONS.
2. 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.
3. 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.

Know what's below. Call before you dig.

L2.0

\\a5fcallsm\wp\Projects\2019 Projects\19043_AddisonAvenueEPA\3_ConstructionDocuments\19043_PL.dwg@ 07:28:09 PM

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NO. | REVISIONS | DATE

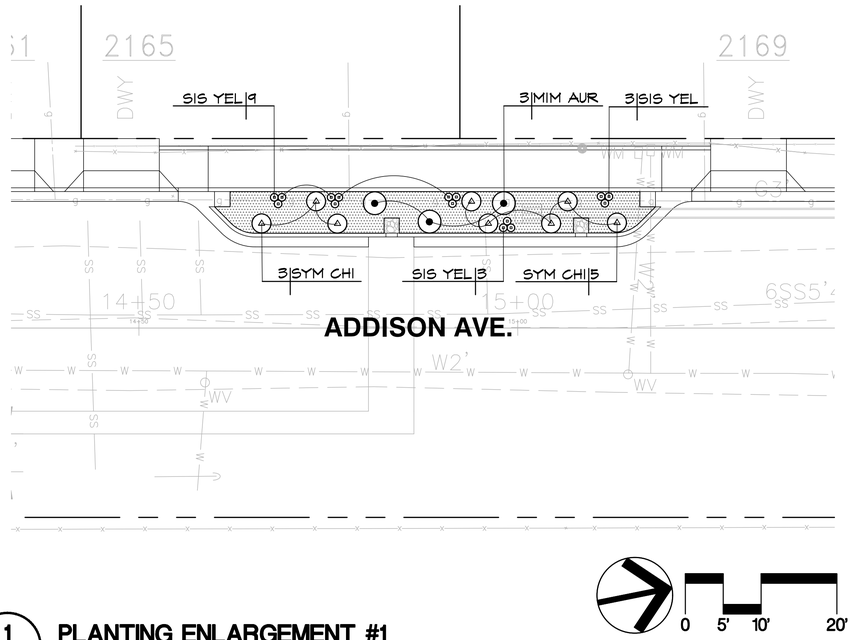
DESIGNED BY: MR
DRAWN BY: DC

PREPARED BY:
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com
CALA

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

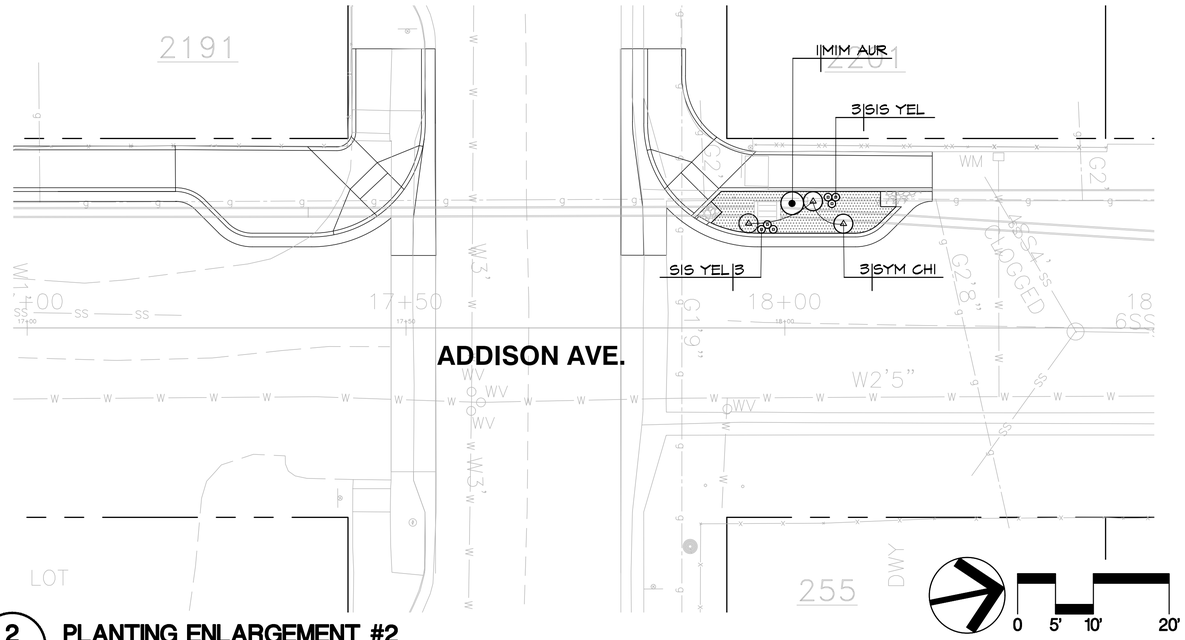
SHEET 23 OF 29

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



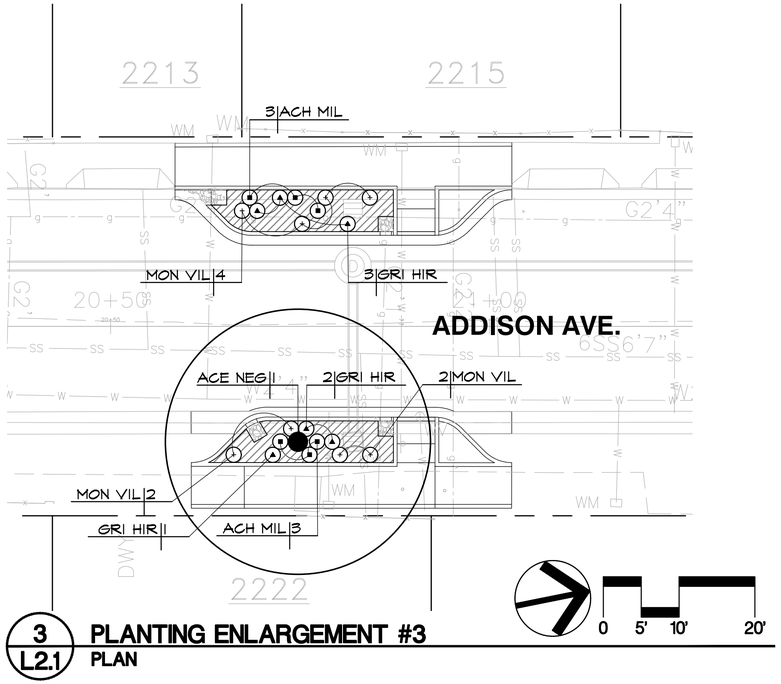
0 5' 10' 20'

1 / L2.1 PLANTING ENLARGEMENT #1
PLAN



0 5' 10' 20'

2 / L2.1 PLANTING ENLARGEMENT #2
PLAN



0 5' 10' 20'

3 / L2.1 PLANTING ENLARGEMENT #3
PLAN

FOR PLANTING LEGEND AND NOTES
SEE SHEET L2.0

811 Know what's below. Call before you dig.

\\a5\fcallsm_wp\Projects\2019 Projects\19043_AddisonAvenueEPA\3_ConstructionDocuments\19043_PL.dwg@ 07:28:16 PM

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NO.	REVISIONS	DATE

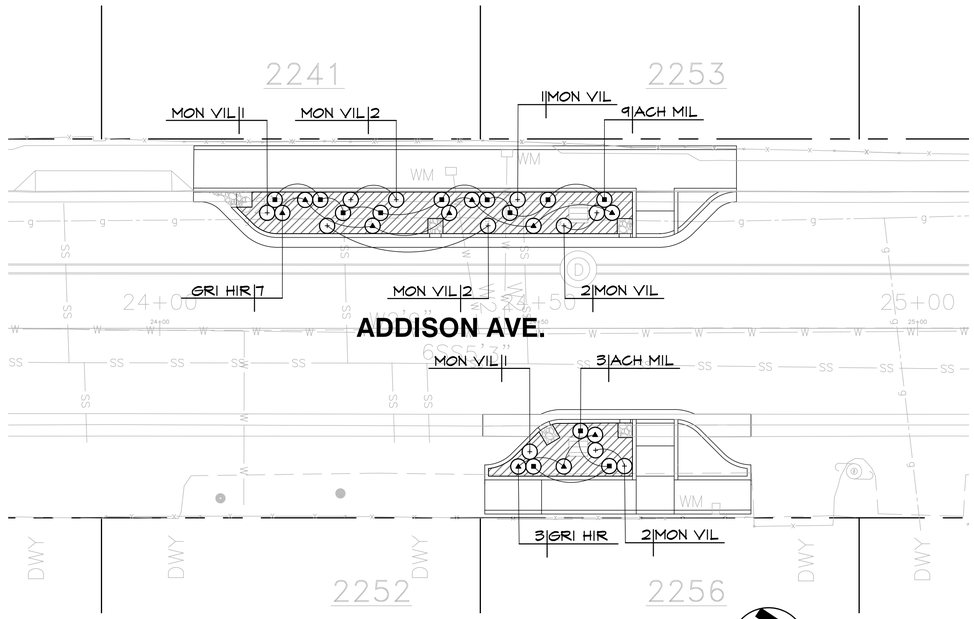
DESIGNED BY: MR
DRAWN BY: DC

PREPARED BY:
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

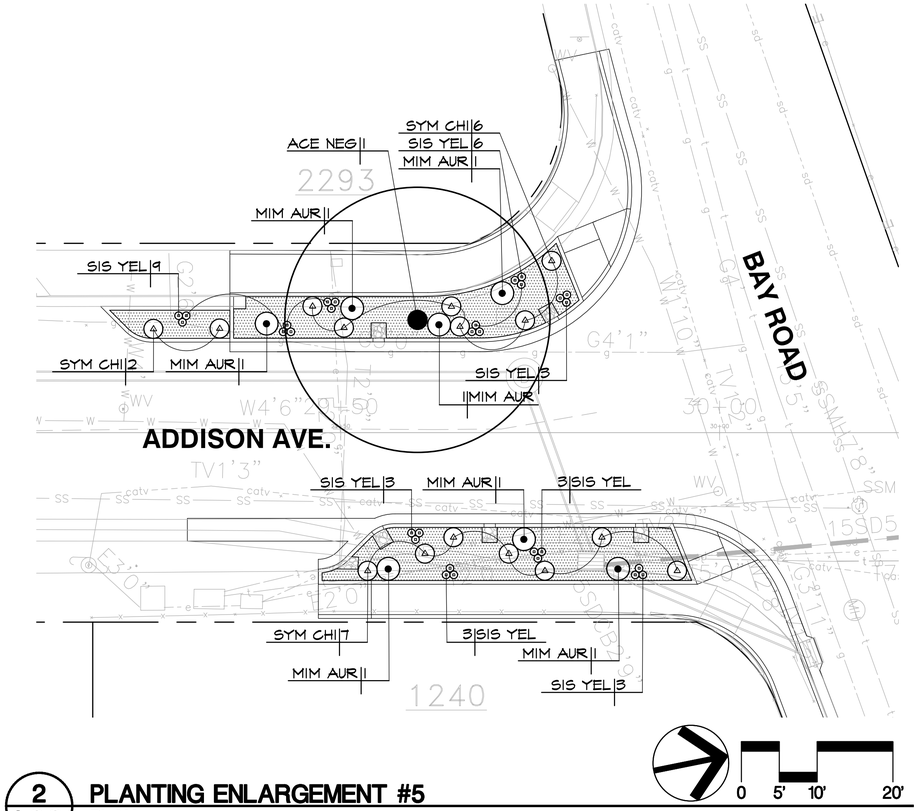
TITLE: **PLANTING PLAN**
ADDISON AVENUE SAFE ROUTE TO SCHOOL AND GREEN STREET IMPROVEMENT PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 24 OF 29

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



1 / L2.2 PLANTING ENLARGEMENT #4
PLAN



2 / L2.2 PLANTING ENLARGEMENT #5
PLAN

FOR PLANTING LEGEND AND NOTES SEE SHEET L2.0

811 Know what's **below.** **Call** before you dig.

L2.2

NO.	REVISIONS	DATE

DESIGNED BY: MR
DRAWN BY: DC

PREPARED BY:
1633 Bayshore Highway, Suite 133
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CALA

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

SHEET 25
OF
29

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

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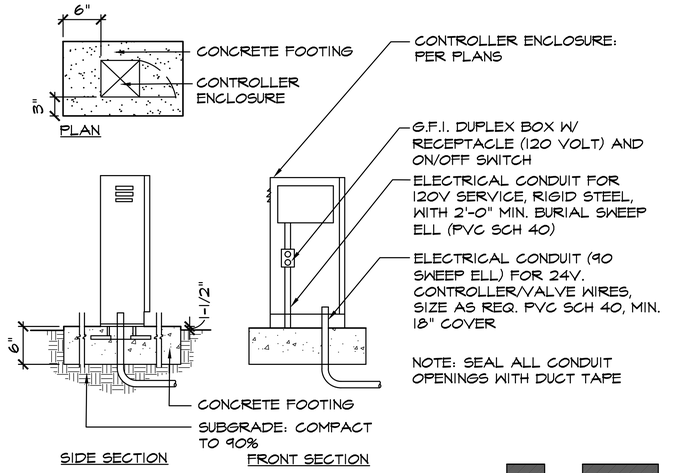
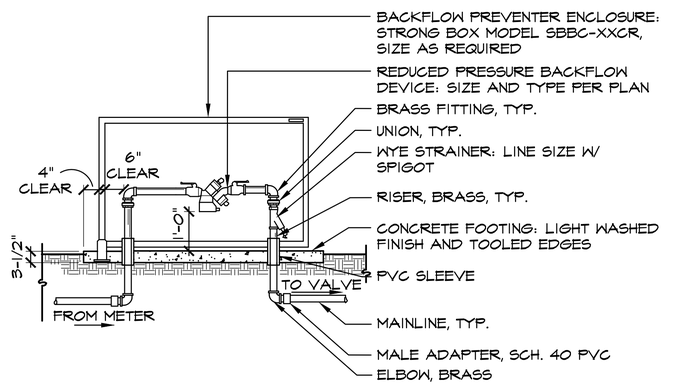


1 L3.0 **CONTROLLER** SECTION

0 1/2' 1' 2'

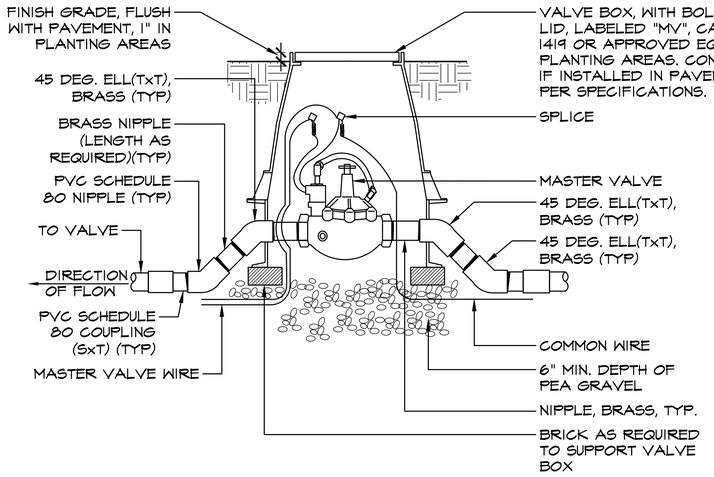
19043_Controller 2 12.dwg



2 L3.0 **BACKFLOW PREVENTER** SECTION

0 1' 2' 4'

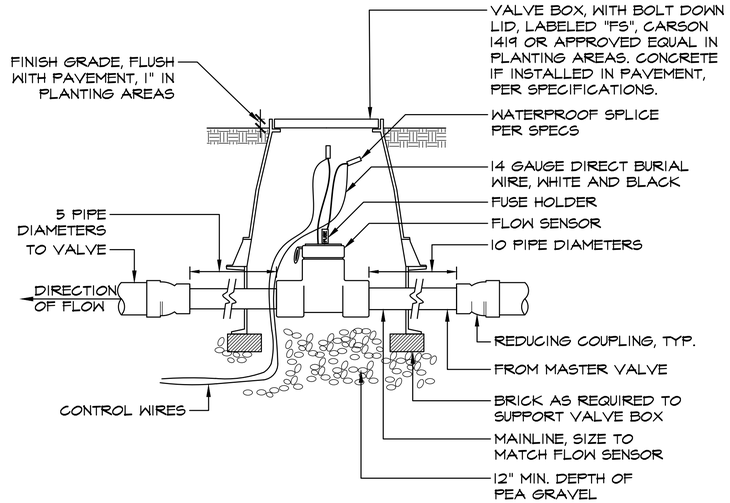
19043_Backflow Preventer 1_24.dwg



3 L3.0 **MASTER VALVE** SECTION

N.T.S.

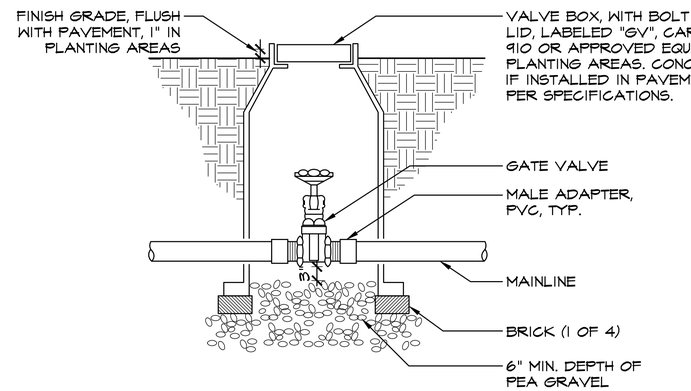
19043_Master Valve_48.dwg



4 L3.0 **FLOW SENSOR** SECTION

N.T.S.

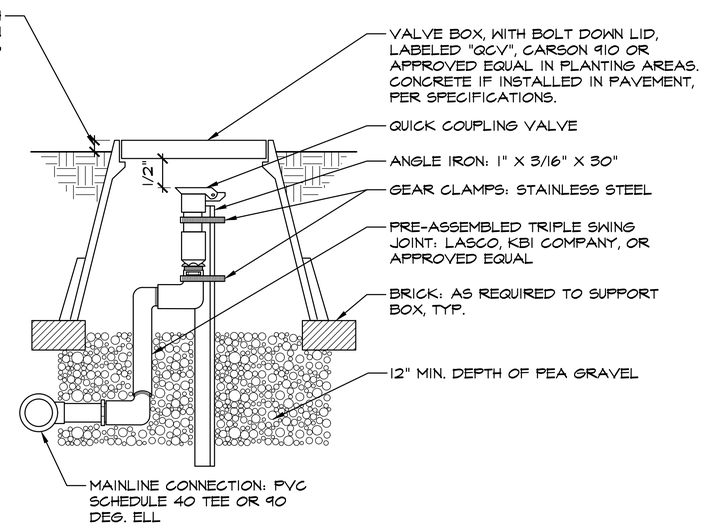
02810 Flow Sensor 48.dwg



5 L3.0 **GATE VALVE** SECTION

N.T.S.

19043_Gate Valve_4.dwg



6 L3.0 **QUICK COUPLING VALVE** SECTION

N.T.S.

19043_Quick Coupling Valve_4.dwg

Know what's below. Call before you dig.

\\A5FCALLSM\wp\Projects\2019 Projects\19043_AddisonAvenueEPA\3_ConstructionDocuments\19043_DT.dwg@ 07:28:36 PM

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L3.0

NO.	REVISIONS	DATE

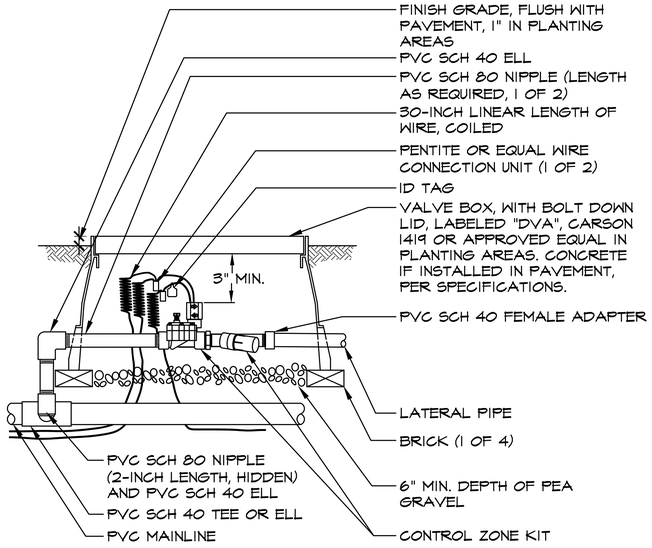
DESIGNED BY: MR
DRAWN BY: DC

PREPARED BY:
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

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

SHEET 26 OF 29

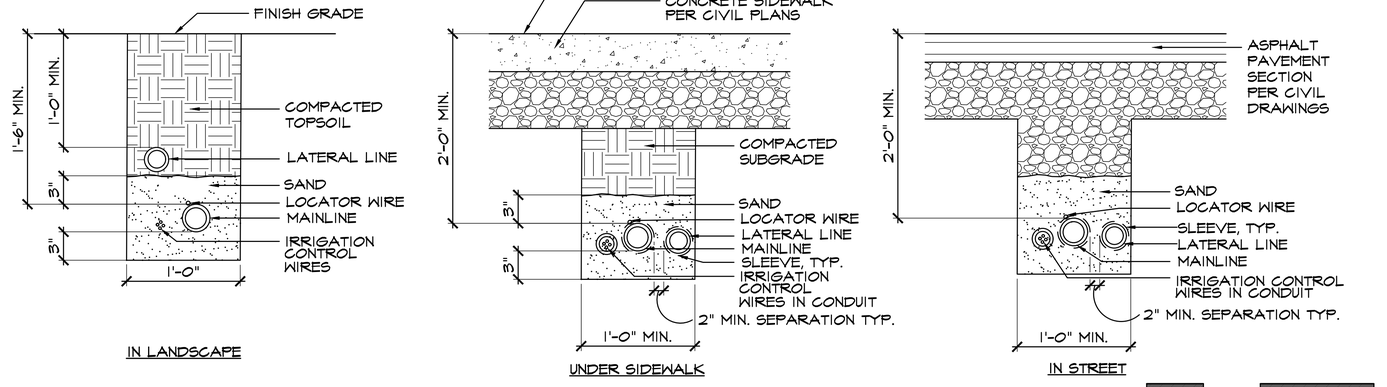
DATE: 02/15/2022
JOB NO. : CIP-ST-26



1 L3.1 DRIP CONTROL ZONE KIT
SECTION — N.T.S.

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.

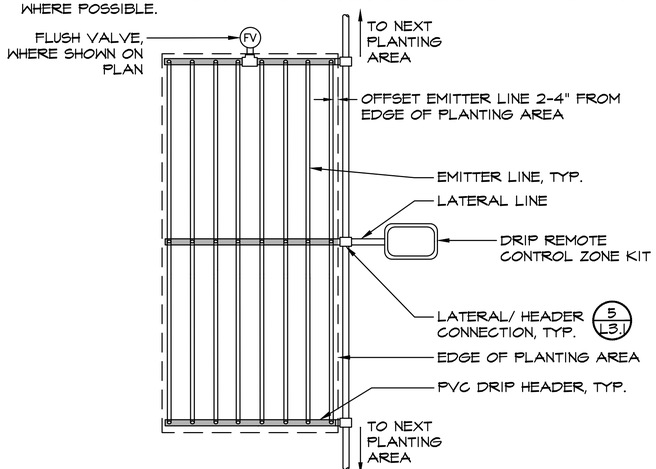


2 L3.1 IRRIGATION TRENCHING
SECTION

0 1/2' 1' 2'

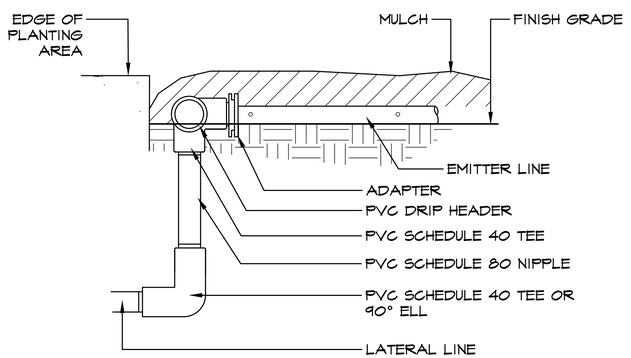
19043 Irrigation Trenching B.dwg

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.



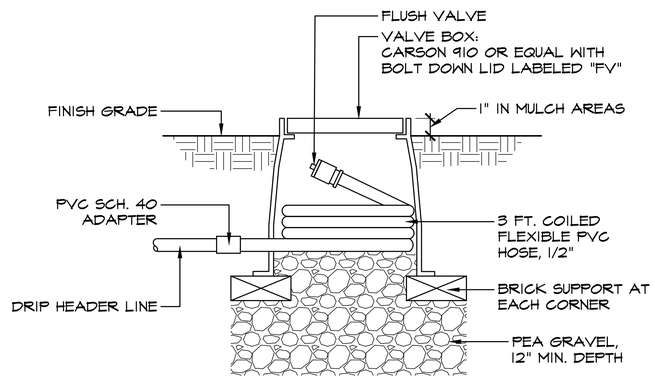
3 L3.1 DRIP LAYOUT
PLAN — N.T.S.

19043_Drip Center Feed Layout 1.dwg



4 L3.1 DRIP LATERAL / HEADER CONNECTION
SECTION — N.T.S.

19043_Drip Lateral Header Connection_B.dwg



5 L3.1 MANUAL FLUSH VALVE
SECTION — N.T.S.

19043_DripFlushValveManual_B.dwg

811 Know what's below. Call before you dig.

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L3.1

NO.	REVISIONS	DATE

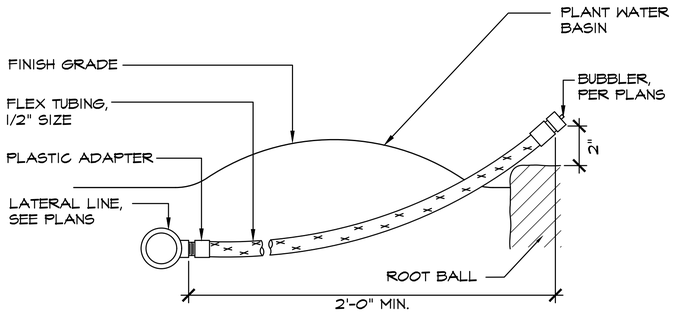
DESIGNED BY: MR
DRAWN BY: DC

PREPARED BY:
CALLANDER ASSOCIATES LANDSCAPE ARCHITECTURE
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

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

SHEET 27 OF 29

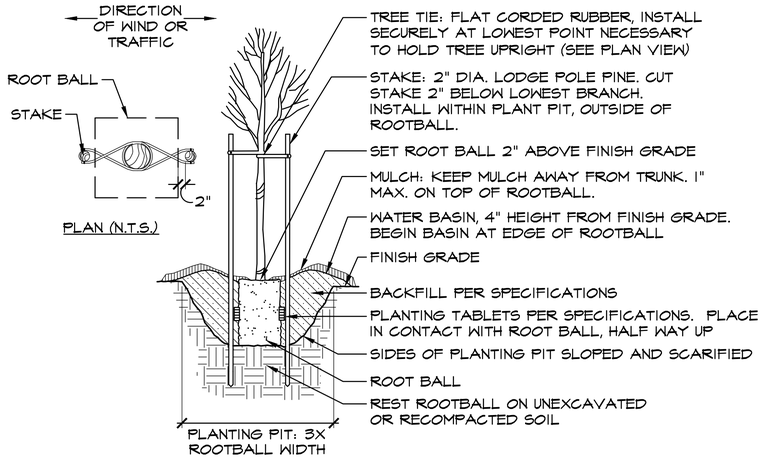
DATE: 02/15/2022
JOB NO. : CIP-ST-26



1 L3.2 TREE BUBBLER SECTION

N.T.S.

19043_TreeBubbler_12.dwg

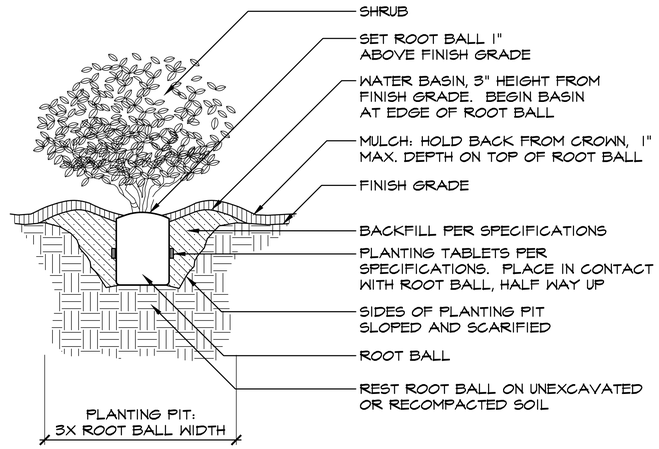


2 L3.2 TREE PLANTING SECTION

0 1' 2' 4'

N.T.S.

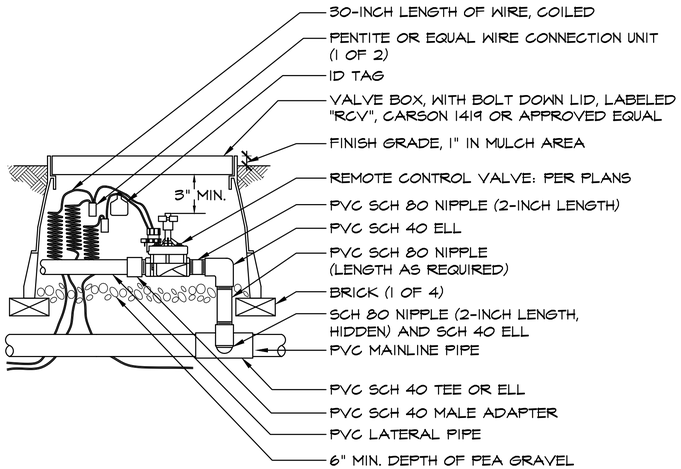
19043_TreePlanting_32.dwg



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

811 Know what's below. Call before you dig.

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NO.	REVISIONS	DATE

DESIGNED BY: MR

DRAWN BY: DC

PREPARED BY:
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

TITLE: **LANDSCAPE DETAILS**

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

SAN MATEO COUNTYWIDE
Water Pollution Prevention Program
Clean Water. Healthy Community.

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

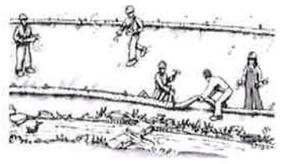
Maintenance and Parking

- ❑ 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.

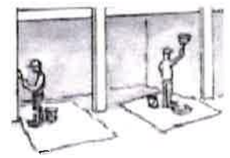
Concrete, Grout & Mortar Application

- ❑ 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

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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

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