

ADDENDUM NO. 1 – March 27, 2025


**Lathrop Animal Center – Stanford Crossing Extension
CIP GG 23-11**

This addendum amends the Contract Drawings and Specifications for this project as follows:

1. Revised the scope of work from 100 to 650 linear feet of road widening on Dos Reis Road.
2. Revised Bid Schedule Items:
 - a. #4 Rough Grading from 3,842 to 3,700 CY
 - b. #6 Construct Street Structural Section (3.5" AC, 4" AB, 10" LTB) from 63,164 to 65,146 SF
3. Revised Improvement Plans – see Attachment A of this Addendum.


When submitting the bid for the project, the Contractor must acknowledge receipt of the addendum.

Recommended by:


Veronica Albarran
Junior Engineer

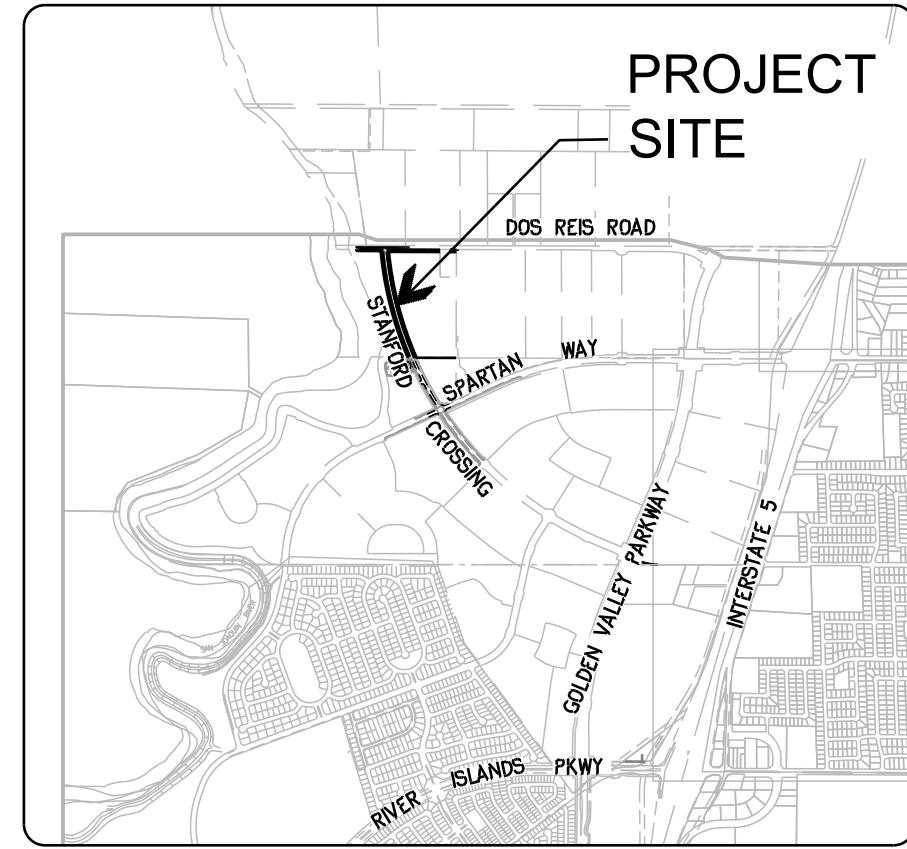
3/27/2025
Date

Approved by:

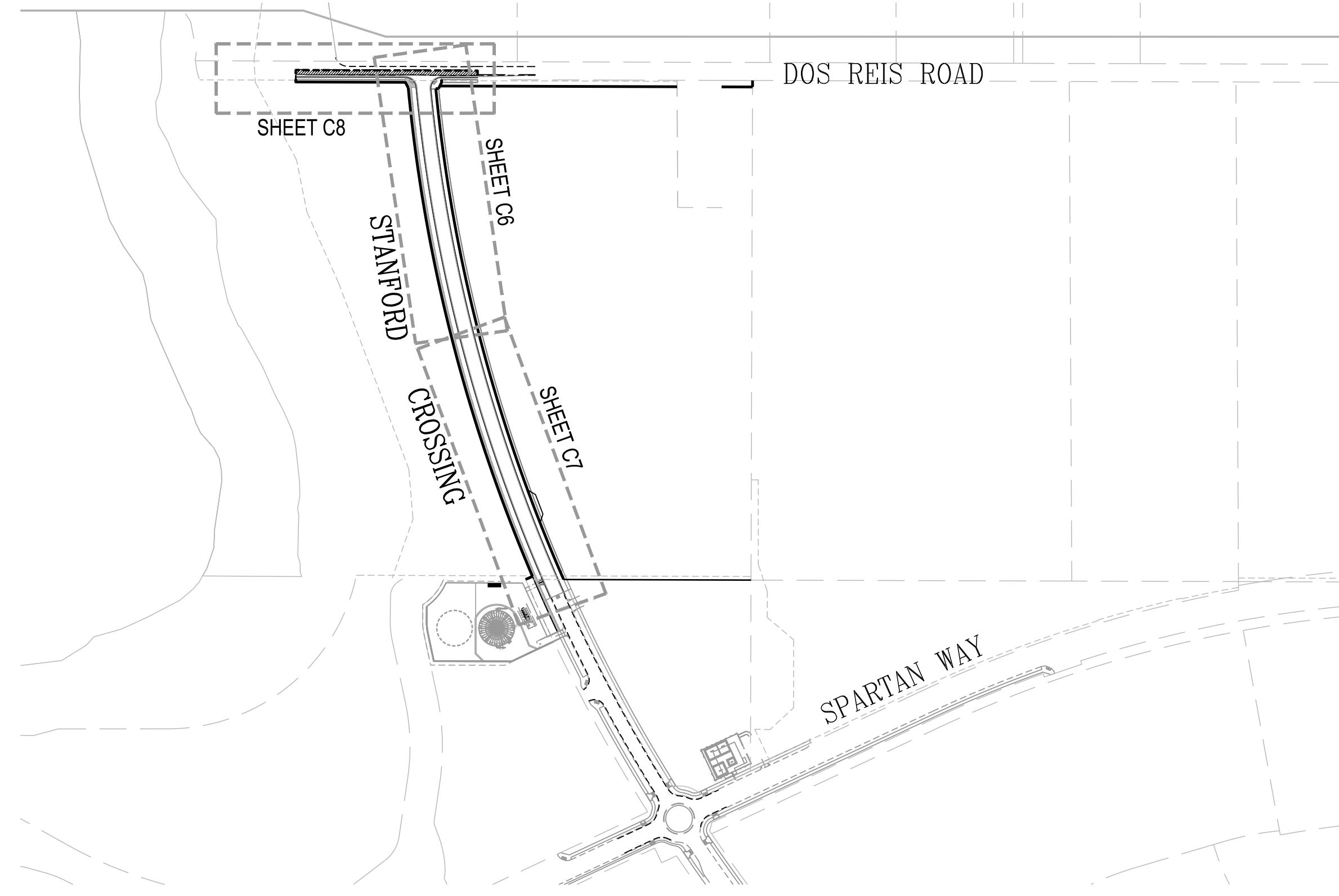

Brad Taylor, PE
City Engineer

3/27/2025
Date

IMPROVEMENT PLANS STANFORD CROSSING EXTENSION LATHROP, CALIFORNIA MARCH 2025



VICINITY MAP
NOT TO SCALE



SITE INDEX
SCALE: 1" = 300'

SHEET INDEX	
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C7	STANFORD CROSSING - STA 52+00 TO STA 63+00
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1	SIGNING AND STRIPING PLAN
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1-2	PHOTOMETRIC PLANS

AGENCIES:
CITY: CITY OF LATHROP
390 TOWNE CENTRE DRIVE
LATHROP, CA 95330
(209) 941-7440
FIRE DEPARTMENT: 19001 SOMERSTON PARKWAY
LATHROP, CA 95330
(209) 941-5100
POLICE DEPARTMENT: 940 RIVER ISLANDS PARKWAY
LATHROP, CA 95330
(209) 647-6400

CONSULTANTS:
ENGINEER: MACKAY & SOMPS CIVIL ENGINEERS
5142 FRANKLIN DRIVE, SUITE B
PLEASANTON, CA 94588-3368
CONTACT: JEFF MATSON
JMATSON@MACE.COM
(925) 225-0690
SOILS ENGINEER: ENGED INCORPORATED
17278 GOLDEN VALLEY PARKWAY
LATHROP, CA 95330
CONTACT: CONNER DUNN
(209) 835-0610
JOINT TRENCH: GIACALONE DESIGN SERVICES, INC.
8080 SANTA TERESA BLVD, STE 240
GILROY, CA 95020
CONTACT: ARNOLD SAENZ
(925) 989-4382
LANDSCAPE ARCHITECT: SAM HARNED LANDSCAPE ARCHITECT
PO BOX 2275
OAKDALE, CA 95361
CONTACT: SAM HARNED
(209) 380-7376
TRAFFIC ENGINEER: TJKM
4305 HACIENDA DRIVE, STE 550
PLEASANTON, CA 94588
CONTACT: ERIK BJORKLUND
(925) 463-0611

LEGEND:

EXISTING OR BY OTHERS	PROPOSED	DESCRIPTION
		SUBDIVISION BOUNDARY
		RIGHT OF WAY / LOT LINE
		CENTERLINE
		CONTOUR LINE
		FACE OF CURB
		AC BERM
		SANITARY SEWER & MANHOLE
		STORM DRAIN & INLET
		POTABLE WATER LINE & VALVE
		STORM DRAIN MANHOLE
		RECYCLED WATER & VALVE
		SEWER FORCE MAIN & CLEANOUT
		STORM DRAIN FORCE MAIN
		FIRE HYDRANT & VALVE
		BLOWOFF VALVE
		ELECTROLIER
		SURVEY MONUMENT
		AIR RELIEF VALVE
		BARRICADE
		SIDEWALK
		HANDICAP RAMP
		WATER SERVICE

ABBREVIATIONS

AB	AGGREGATE BASE	FG	FINISH GRADE	PVI	POINT OF VERTICAL INTERSECTION
AC	ASPHALT CONCRETE	FH	FIRE HYDRANT	PUE	PUBLIC UTILITY EASEMENT
AD	AREA DRAIN	FI	FIELD INLET	PVMT	PAVEMENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FL	FLOWLINE	"Q"	FLOW RATE (CUBIC FEET PER SECOND)
APPROX	APPROXIMATE	FOC	FACE OF CURB	"R"	RESISTANCE
ARV	AIR RELIEF VALVE	FS	FIRE SERVICE	RCP	REINFORCED CONCRETE PIPE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	FUT	FUTURE	RP	RADIUS POINT
AVE	AVENUE	G	GAS	RT	RIGHT
AWWA	AMERICAN WATER WORKS ASSOC.	GB	GRADE BREAK	RWD HDR	REDWOOD HEADER BOARD
BC	BEGINNING OF CURVE	GND	GROUND	R/W	RIGHT OF WAY
BEG.	BEGIN	HDPE	HIGH DENSITY POLYETHYLENE	RW	RECYCLED WATER
BFV	BUTTERFLY VALVE	HFL	HYDRAULIC GRADE LINE	S	SANITARY SEWER LATERAL
BLVD	BOULEVARD	HP	HIGH POINT	(S)	SOUTH
BNDY	BOUNDARY	INV	INVERT	SD	STORM DRAIN
BO	BLOWOFF	IRR	IRRIGATION	SDMH	STORM DRAIN MANHOLE
BVC	BEGIN VERTICAL CURVE	LF	LINEAR FEET	SDFM	STORM DRAIN FORCE MAIN
CB	CATCH BASIN	LP	LOW POINT	SJVAPCD	SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT
C/L	CENTERLINE	LT	LEFT	SNS	STREET NAME SIGN
CFS	CUBIC FEET PER SECOND	MCB	MODIFIED CATCH BASIN	SS	SANITARY SEWER
CONT	CONTINUE	MH	MANHOLE	SSMH	SANITARY SEWER MANHOLE
CR	CROWN	MIN	MINIMUM	SSFM	SANITARY SEWER FORCE MAIN
CY	CUBIC YARD	MID PT	MIDPOINT	SSRI	SANITARY SEWER RODDING INLET
DI	DROP INLET	MTC	MEDIAN TOP OF CURB	STD	STANDARD
DIP	DUCTILE IRON PIPE	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	STA	STATION
DR.	DRIVE	(N)	NORTH	STLT	STREET LIGHT
DW	DRIVEWAY	NAP	NOT A PART	SVC	SERVICE
(E)	EAST	NTS	NOT TO SCALE	SW, S/W	TOP OF BERM
EC	END OF CURVE	P	PAD	TBO	TEMPORARY BLOWOFF
EL	ELEVATION	PBO	PERMANENT BLOW-OFF	TG	TOP OF GRATE
ELECT	ELECTROLIER	PCC	PORTLAND CEMENT CONCRETE	TOP	TOP OF PIPE
EP	EDGE OF PAVEMENT	PKWY	PARKWAY	TYP	TYPICAL
ER	END OF RETURN	PL	PROPERTY LINE	(W)	WEST
EVA	EMERGENCY VEHICLE ACCESS	PP	POWER POLE	W	WATER
EVC	END VERTICAL CURVE	PRC	POINT OF REVERSE CURVATURE	WM	WATER METER
EX	EXISTING	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR	VG	VALLEY GUTTER
FC	FACE OF CURB	PVC	POLYVINYL CHLORIDE	±	PLUS OR MINUS

BENCHMARK:
SAN JOAQUIN CO. BRASS DISK IN CURB, STAMPED "CITY OF LATHROP BENCH MARK NO. 5," 1.3 FEET EAST OF THE SOUTHEAST CURB RETURN OF LOUISE AVENUE AND HARLAN ROAD. ELEVATION = 14.77

ELECTRONIC VERSIONS OF THE LINWORK ON THIS PLAN MAY NOT BE CONSISTENT WITH OTHER DIMENSIONS, NOTES, DETAILS OR DESCRIPTIONS WHICH CONTROL THE INTENDED DESIGN. ELECTRONIC VERSIONS OF THIS PLAN ARE NOT TO BE USED TO ESTABLISH THE LOCATION OF PROPERTY OR IMPROVEMENTS IN THE FIELD.

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT: UNDERGROUND SERVICE ALERT
PHONE: (800) 227-2600
FOR MARKING PRIOR TO DIGGING

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; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional 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 design professional.



RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
CHRISTIAN T. RAGAN
RCE #60473



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

PLANS PREPARED UNDER THE DIRECTION OF:
BY: *Christian T. Ragan* 3/25/2025
CHRISTIAN T. RAGAN RCE No. 60473

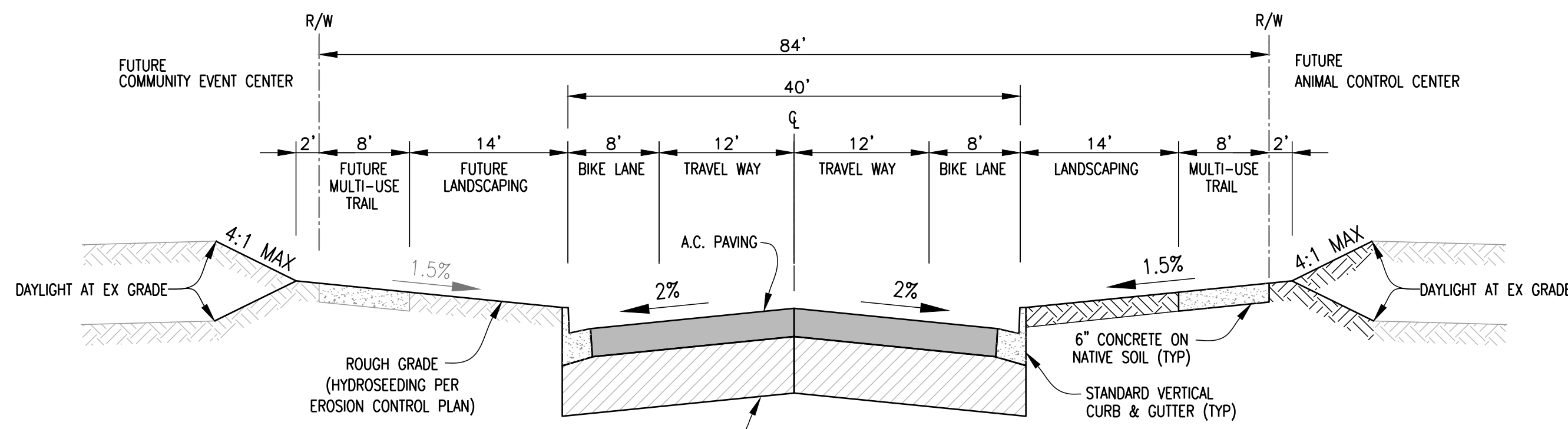
GEOTECHNICAL ENGINEER
THE GEOTECHNICAL ASPECTS OF THESE IMPROVEMENT PLANS HAVE BEEN REVIEWED FOR SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE GEOTECHNICAL RECOMMENDATIONS CONTAINED IN THE LETTER ISSUED BY ENGED, INC DATED MARCH 20, 2025 ENTITLED "STANFORD CROSSING EXTENSION, LATHROP, CALIFORNIA GEOTECHNICAL RECOMMENDATIONS, PROJECT No. 5747.018.001", WHICH REFERENCES TO "ENGE 2017 GEOTECHNICAL EXPLORATION, STANFORD CROSSING TRACT 3789, LATHROP CALIFORNIA, OCTOBER 27, 2017. PROJECT No. 5747.003.003"
Steve Harris 3-25-2025
ENGED, INC LATHROP, CALIFORNIA
Steve Harris DATE

LATHROP-MANTECA FIRE DISTRICT
APPROVED BY: _____ DATE: _____
FIRE MARSHAL

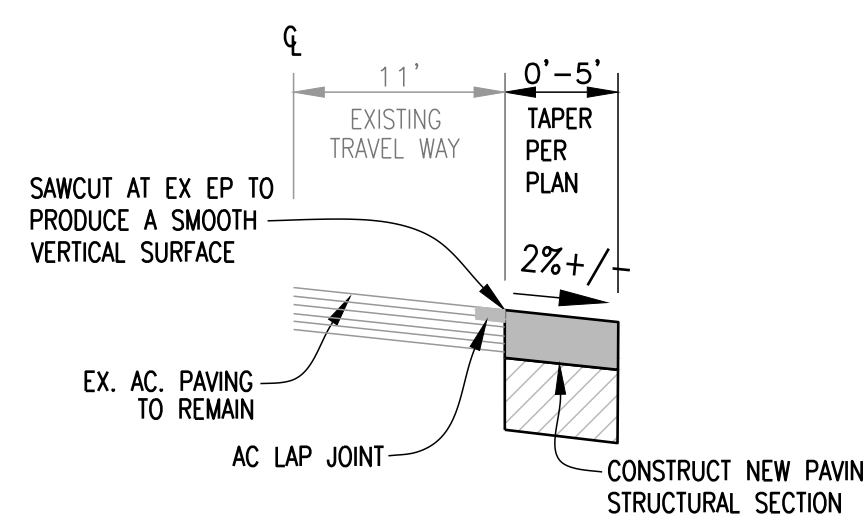
CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: _____ DATE: _____
CITY ENGINEER RCE NO: _____
EXP DATE: _____

STANFORD CROSSING EXTENSION
COVER SHEET
DEPARTMENT OF PUBLIC WORKS
CITY OF LATHROP, CALIFORNIA

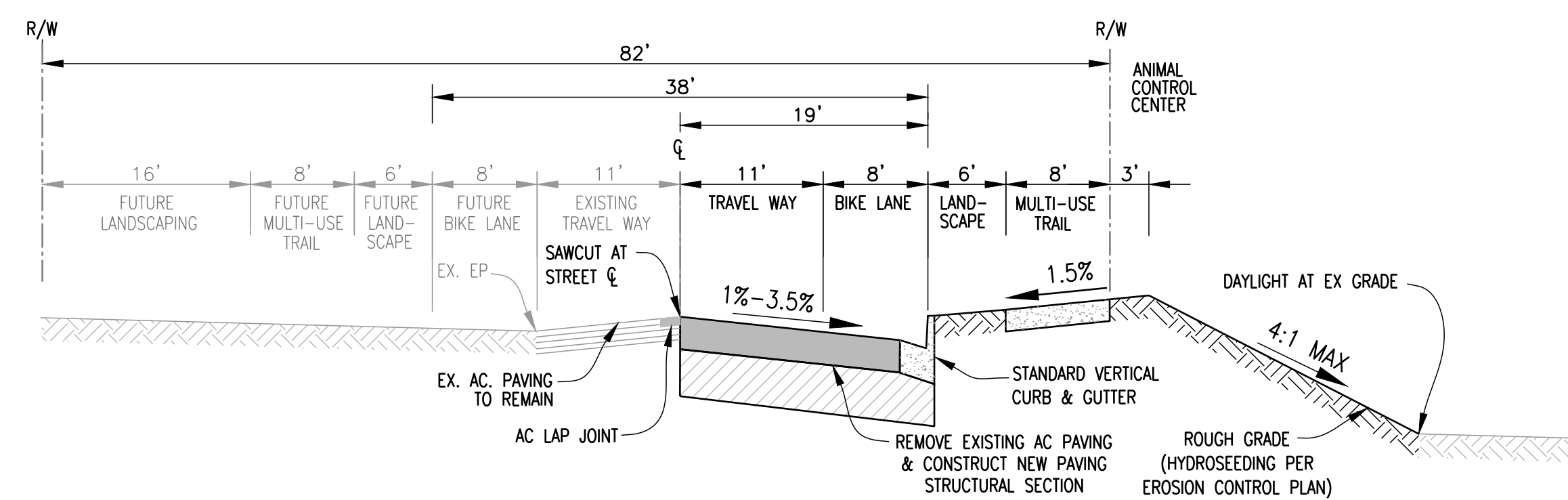
DATE: MARCH 2025	RECOMMENDED FOR APPROVAL BY: _____	DATE: _____	PROJECT NO. 25257.D
SCALE: AS SHOWN	DESIGNED BY: EN	CHECKED BY: RC	SHEET NO. C1
DESIGNED BY: RC	CHECKED BY: JM	CITY OF LATHROP	SHEET 1 OF 9



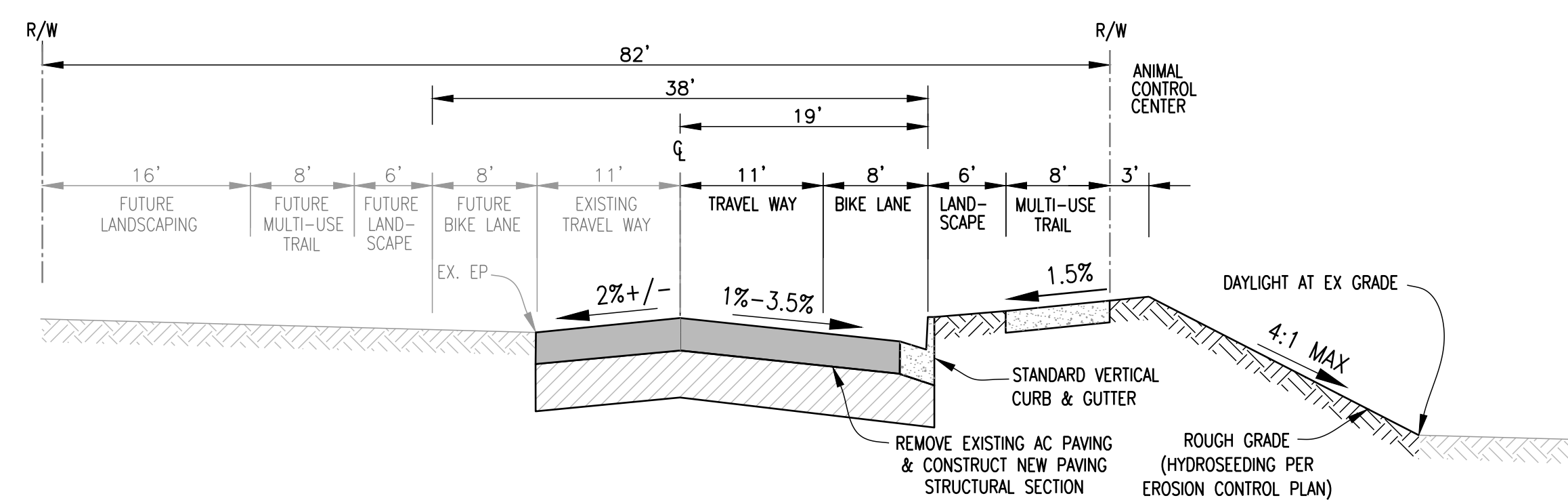
STANFORD CROSSING - 84' R/W
 STA. 43+08 TO STA. 57+63 (LOOKING SOUTH)
 N.T.S.



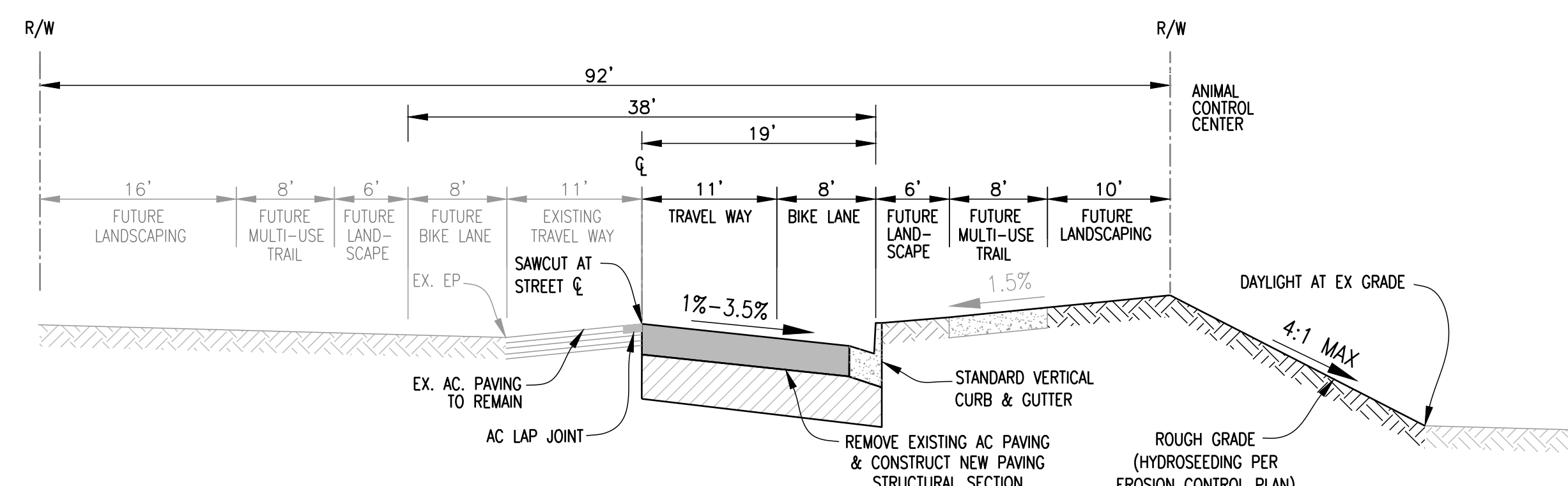
DOS REIS ROAD
 STA 11+54.82 TO STA 13+14.83
 N.T.S.



DOS REIS ROAD
 STA 6+50.06 TO STA 8+70
 N.T.S.



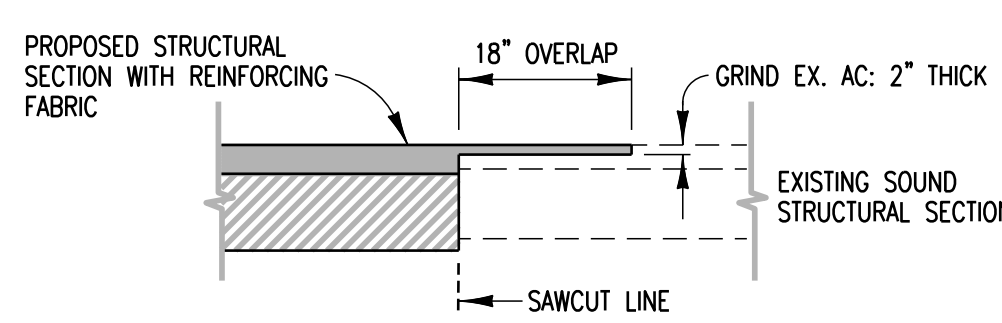
DOS REIS ROAD
 STA 8+70 TO STA 10+54.82
 N.T.S.



DOS REIS ROAD
 STA 10+54.82 TO STA 11+54.82
 N.T.S.

CITY STANDARD DETAILS (JULY 2024)

ROADS:	R-6	VERTICAL CURB, GUTTER AND SIDEWALK (COMMERCIAL, INDUSTRIAL, AND CROSSROADS)
	R-7	VERTICAL CURB, GUTTER W/ DETACHED SIDEWALK (COMMERCIAL, INDUSTRIAL, AND CROSSROADS)
	R-8	CONCRETE PATH
	R-10	MEDIAN AND TRAFFIC ISLAND CURBS
	R-13(A-F)	CURB RAMP DETAILS
	R-20	TYPICAL COMMERCIAL AND INDUSTRIAL DRIVEWAY
	R-21	DRIVEWAY STREET-LEVEL INDUSTRIAL/COMMERCIAL RADIUS CORNERS
	R-22	TYPICAL COMMERCIAL DRIVEWAY LOCATIONS
	R-37	BARRICADE FOR TERMINATING STREETS
	R-41	STANDARD SIGN DETAILS
	R-48	TRENCH BEDDING AND SHADING
	R-49	TRENCH BACKFILL EXISTING OR FUTURE PAVED AREAS
STORM DRAIN:	D-1	STORM WATER QUALITY DROP INLET CONCRETE STAMP
	D-3	CURB INLET TYPE II (COMMERCIAL/INDUSTRIAL)
	D-4	18" DROP INLET (ON-SITE USE ONLY)
	D-5	18" AND 24" DROP INLET FRAME AND GRATE
	D-6	TYPE I MANHOLE
	D-7	TYPE II MANHOLE FOR PIPES UP TO & EQUAL TO 48"
	D-8	TYPE III MANHOLE FOR 54"-96" PIPE
	D-22	SADDLE TYPE MANHOLE FOR PIPE 24" & LARGER
	D-23	24"x24" STORM DRAIN CATCH BASIN
SEWER:	S-1	SANITARY SEWER TYPE I MANHOLE
	S-2	SANITARY SEWER INSIDE DROP MANHOLE
	S-3	MANHOLE FRAME AND COVER
	S-4	LAMP POLE
	S-6	PROPERTY LINE CLEANOUT
	S-9	SEWER SERVICE LATERAL
WATER:	W-1	WATER - SEWER SEPARATION STANDARDS
	W-2	THRUST BLOCK CHART
	W-3	INSTALLATION LOCATOR WIRE
	W-4	WATER AND RECYCLED WATER TURNOUTS
	W-5	FIRE SERVICE SCHEMATIC DIAGRAMS
	W-7	COMMERCIAL & INDUSTRIAL SERVICE INSTALLATION 1.5" TO 2"
	W-9	WATER SYSTEM BLOW-OFF
	W-12	VALVE BOX
	W-16	REDUCED PRESSURE BACKFLOW DEVICE
	W-19	FIRE HYDRANT LOCATIONS
	W-20	FIRE HYDRANT ASSEMBLY
FIRE:	F-4	DOUBLE CHECK VALVE BACKFLOW DEVICE ON FIRE LINE
	F-5	FIRE SERVICE CONNECTION DETAIL



AC LAP JOINT
 N.T.S.

EARTHWORK SUMMARY:

THE EARTHWORK SUMMARY IS PROVIDED AS A COURTESY AND CONVENIENCE TO THE CONTRACTOR. THE EXCESSES OR SHORTAGES SHOWN ARE APPROXIMATE CALCULATED QUANTITIES BASED ON THE DIFFERENCES BETWEEN EXISTING GROUND ELEVATIONS AND ROUGH GRADE ELEVATIONS. FOR THIS REASON AND BECAUSE OF VARIABLES SUCH AS COMPACTION, SHRINKAGE AND THE CONTRACTOR'S METHOD OF OPERATION, THE VOLUME OF DIRT MOVED IN THE FIELD WILL IN ALL LIKELIHOOD DEVIATE TO SOME EXTENT FROM THE CALCULATED VOLUME. THE EARTHWORK SUMMARY DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY REQUIRED TO DETERMINE FOR THEMSELVES THE QUANTITY OF EARTHMOVING THAT WILL BE REQUIRED TO ROUGH GRADE THIS JOB. IT IS UNDERSTOOD THAT THE CONTRACTOR'S BID PRICE FOR ROUGH GRADING THIS JOB IS BASED ON THE CONTRACTOR'S OWN EARTHWORK ESTIMATE AND INCLUDES PROVISION FOR ANY GRADE ADJUSTMENTS REQUIRED TO BRING THE JOB TO THE ROUGH GRADE, AS DEFINED ON THE PLANS.

AREA	ESTIMATED CUT (CY)	ESTIMATED FILL (CY)
RAW COMPUTER RESULTS	3,700	1,500
SHRINKAGE (SEE NOTE 1)	0	1,100
TRENCH SPOILS (SEE NOTE 2)	4,000	0
TOTAL	7,700	2,600
EXPORT	5,100	

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPORT / OFFHAUL TO BALANCE THE SITE.

NOTES:

- BASED ON SIMILAR PROJECTS IN THE VICINITY OF THIS SITE, A SHINKAGE OF 30% IS ANTICIPATED.
- TRENCH SPOILS ARE CALCULATED FOR GRAVITY PIPES ONLY AND ANTICIPATE A TRENCH SECTION OF THE PIPE DIAMETER PLUS 6" ON EITHER SIDE NON-NATIVE BACKFILL TO THE PIPE CROWN.

PAVEMENT SECTIONS

STREET NAME	T.I.	A.C.	A.B.	S.B.	*L.F.A.
STANFORD CROSSING	6	3.5	4		10
DOS REIS ROAD	6	3.5	4		10

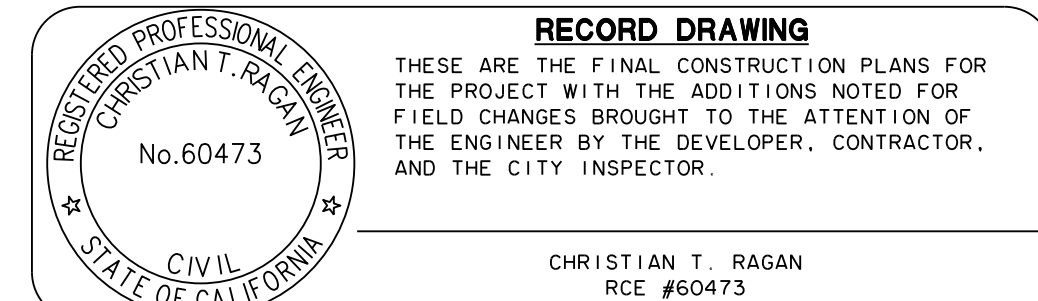
THE PAVEMENT STRUCTURAL SECTION IS IN ACCORDANCE WITH THE INTENT OF THE GEOTECHNICAL RECOMMENDATIONS CONTAINED IN THE LETTER ISSUED BY ENGeo, INC DATED MARCH 20, 2025 ENTITLED "STANFORD CROSSING EXTENSION, LATHROP, CALIFORNIA GEOTECHNICAL RECOMMENDATIONS, PROJECT No. 5747.018.001", WHICH REFERENCES TO "ENGeo 2017 GEOTECHNICAL EXPLORATION, STANFORD CROSSING TRACT 3789, LATHROP CALIFORNIA, OCTOBER 27, 2017, PROJECT No. 5747.003.003" THE PAVEMENT STRUCTURAL SECTION AS INDICATED HEREIN HAS BEEN DETERMINED BY CITY OF LATHROP.

THE SOILS ENGR. SHALL PERFORM R-VALUE TESTS AT LOCATIONS SPECIFIED BY THE CITY OF LATHROP PRIOR TO COMPLETION OF THE SUBGRADE IN ORDER TO VERIFY PAVEMENT SECTION DESIGN. (AN R-VALUE OF 20 IS SPECIFIED IN THE ENGeo REPORT FOR THE ABOVE TABLE)

AB SHALL BE CLASS 2 (R=78) PER CALTRANS STANDARD SPECIFICATIONS. ASB SHALL BE CLASS 2 (R=50) PER CALTRANS STANDARD SPECIFICATIONS. *LFA-LIME FLYASH SUBGRADE TO BE MIXED PER ENGeo REPORT.

STORM DRAINAGE STRUCTURE SCHEDULE
 CITY OF LATHROP STANDARD DETAILS (JULY 2024)

DESCRIPTIONS	STRUCTURE NUMBER
TYPE II MANHOLE (FOR PIPES UP TO & EQUAL TO 48") PER CITY OF LATHROP STANDARD DETAIL D-7	SDMH 106, SDMH 107
TYPE III MANHOLE (FOR 54"-96" PIPE) PER CITY OF LATHROP STANDARD DETAIL D-8	SDMH 108, SDMH 109, SDMH 110, SDMH 111, SDMH 112, SDMH 113, SDMH 114
CURB INLET TYPE II PER CITY OF LATHROP STANDARD DETAIL D-3	CB 107A, CB 109A, CB 109B, CB 109C, CB 110A, CB 110B, CB 112A, CB 112B
24"x24" STORM DRAIN CATCH BASIN PER CITY OF LATHROP STANDARD DETAIL D-23	FI 106A, FI 107B, FI 109D



STANFORD CROSSING EXTENSION
STREET SECTIONS & DETAILS

DEPARTMENT OF PUBLIC WORKS
 CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL APPROVED BY	DATE



PLANS PREPARED UNDER THE DIRECTION OF:
 BY: *Christian T. Ragan* 3/25/2025
 CHRISTIAN T. RAGAN RCE No. 60473

DATE: MARCH 2025	RECOMMENDED FOR APPROVAL BY: _____	DATE: _____	PROJECT NO. 25257.D
SCALE: AS SHOWN	DRAWN BY: EN	DESIGNED BY: RC	CHECKED BY: JM
CITY OF LATHROP			SHEET 3 OF 9

PROJECT SPECIFICATIONS:

1. GENERAL

THESE PROJECT SPECIFICATIONS SHALL APPLY TO ALL IMPROVEMENTS INCLUDING FINISH GRADING, UTILITY HARDSCAPE, PAVING AND BUILDING PAD CONSTRUCTION AS SHOWN ON THESE PLANS.

2. SPECIFICATIONS AND STANDARDS

ALL WORK TO BE DONE WITH THIS PROJECT SHALL COMPLY WITH THE STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE FOLLOWING UNLESS SPECIFICALLY NOTED OTHERWISE:

IF ANY DEVIATION FROM THE CONSTRUCTION PLANS OR SPECIFICATIONS OR AGENCY STANDARDS OR DETAILS IS MADE BY EITHER THE CONTRACTOR OR THE OWNER DURING THE COURSE OF CONSTRUCTION WITHOUT THE PRIOR NOTIFICATION, CONSENT, AND WRITTEN APPROVAL OF MACKAY & SOMPS, MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE RESULTS OF SUCH DEVIATIONS.

3. QUALITY CONTROL

ALL PUBLIC IMPROVEMENT WORK BY CONTRACTOR SHALL BE DONE UNDER THE INSPECTION OF, AND TO THE SATISFACTION AND ACCEPTANCE OF, THE CITY ENGINEER OR THE DISTRICT ENGINEER, IN THE EVENT OF ANY DISPUTE ARISING AS TO THE INTERPRETATION OF THE LOCAL AGENCIES' SPECIFICATIONS OR DETAILS OR THE CHARACTER OF THE WORK DONE BY THE CONTRACTOR, THE DECISION OF THE CITY AND/OR DISTRICT ENGINEER SHALL BE CONCLUSIVE.

4. DISCREPANCIES

IF THE CONTRACTOR, IN THE COURSE OF THE WORK, FINDS ANY DISCREPANCY BETWEEN THE PLANS AND PHYSICAL CONDITIONS IN THE FIELD, OR ANY ERRORS OR OMISSION IN THE PLANS, IN THE LAYOUT OF SURVEY STAKES, AND/OR IN INSTRUCTIONS GIVEN, HE SHALL IMMEDIATELY INFORM MACKAY & SOMPS.

A MAJORITY OF ERRORS ARE EASILY DETECTABLE (AND CORRECTABLE WITH MINIMAL EXPENSE AND DISRUPTION) IF COMMON SENSE AND GOOD CONSTRUCTION PRACTICES ARE FOLLOWED. MACKAY & SOMPS IS NOT RESPONSIBLE FOR ERRANT CONSTRUCTION RESULTING FROM THE CONSTRUCTION PROCESS PROCEEDING BLINDLY FROM STAKES AND/OR PLANS WITHOUT CROSS REFERENCING BETWEEN THE TWO.

PLACING STRING LEVELS ON STRINGLINE CONTROLS TO CONFIRM PROPER SLOPE BEFORE USING THEM FOR CONSTRUCTION.

- A) USING STRAIGHT EDGE AND HAND LEVEL TO CONFIRM CROSS SLOPES AND ADEQUACY OF STREET DRAINAGE PRIOR TO PLACING PAVEMENT.
B) SUBMITTING SHOP DRAWINGS OF FACTORY (OR FIELD) MANUFACTURED FACILITIES WHICH CONTAIN CRITICAL DIMENSIONS OR OTHER CRITICAL CHARACTERISTICS TO MACKAY & SOMPS OR OTHER CONSULTANTS FOR ACKNOWLEDGMENT WELL IN ADVANCE OF CONSTRUCTION.
C) TO COMPARE WHAT IS BEING CONSTRUCTED IN THE FIELD TO WHAT IS SHOWN ON THE PLANS. IMPROVEMENTS SHALL NOT BE CONSTRUCTED BY USING CONSTRUCTION STAKES ALONE.

ANY TIME THE CONTRACTOR DOUBTS THE REASONABLENESS OR CORRECTNESS OF AN ELEMENT IN THE PLANS OR FIELD CONTROL STAKING, THE CONTRACTOR SHALL CONTACT MACKAY & SOMPS FOR CLARIFICATION OR CONFIRMATION. MACKAY & SOMPS WILL ENDEAVOR TO RESPOND TO ANY SUCH INQUIRY MADE IN GOOD FAITH ON A HIGHEST PRIORITY BASIS, AND WILL DO SO FREE OF CHARGE TO EITHER THE OWNER OR THE CONTRACTOR, EVEN IF THERE IS NO ERROR OR OMISSION. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL THE PROBLEM HAS BEEN REMEDIED OR DISPELLED, WILL BE DONE AT THE CONTRACTOR'S OWN RISK.

5. PERMITS, CONFORMANCE WITH LAWS

CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS, ORDINANCES, ORDERS, RULES, AND REGULATIONS OF EVERY KIND RELATING TO THE PERFORMANCE OF THE WORK, AND IF ANY PERMIT SHALL BE REQUIRED BY ANY LOCAL GOVERNMENTAL AGENCY OR SPECIAL DISTRICT OR BE NECESSARY BY LAW, ORDINANCE, OR OTHER REGULATIONS, THE SAME SHALL BE PROCURED BY CONTRACTOR AT THEIR OWN EXPENSE.

6. SAFETY AND LIABILITY

CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND MACKAY & SOMPS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR MACKAY & SOMPS RESPECTIVELY. THE COST OF ASSURING JOB SAFETY INCLUDING, BUT NOT LIMITED TO FENCING, TRENCH SHORING, TRAFFIC CONTROL AND/OR TRAFFIC WARNING DEVICES SHALL BE INCLUDED IN ALL APPLICABLE BID ITEMS. JOBSITE SAFETY ASSURANCES INCLUDE PROVIDING A SAFE JOBSITE FOR THE SETTING OF CONSTRUCTION STAKES. THE DUTIES OF MACKAY & SOMPS DO NOT INCLUDE ANY REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE. ALL CONTRACTORS ARE RESPONSIBLE FOR TEMPORARY TRAFFIC CONTROL AS PART OF ITS WORK, INCLUDING THE PREPARATION OF TRAFFIC CONTROL PLANS AND OBTAINING APPROVAL OF SAME AS REQUIRED.

7. COORDINATION

CONTRACTORS ARE TO NOTIFY ALL UTILITY COMPANIES IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES (CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 1-800-642-2444). IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UTILITIES.

IT IS UNDERSTOOD BY THE CONTRACTOR THAT IT WILL BE RESPONSIBLE FOR THE ADVANCE COORDINATION AND SCHEDULING OF WORK BETWEEN ITSELF AND/OR ITS SUBCONTRACTORS AND ALL UTILITY COMPANIES.

ANY PUBLIC UTILITY INSTALLATION OBSTRUCTING THE WORK TO BE PERFORMED HEREUNDER SHALL BE MOVED AT THE EXPENSE OF THE PUBLIC UTILITY COMPANY OR OWNER AND WITHOUT COST TO THE CONTRACTOR UNLESS SPECIFIED OTHERWISE ON THE PLANS OR IN THESE SPECIFICATIONS.

NO ADDITIONAL COST SHALL BE CHARGED TO THE OWNER BY THE CONTRACTOR DUE TO DELAYS, INCONVENIENCE OR OTHER ADDITIONAL EXPENSES ASSOCIATED WITH THE PRESENCE OF SUCH OBSTRUCTIONS.

8. PRECONSTRUCTION CONFERENCE

PRIOR TO THE BEGINNING OF WORK, THERE WILL BE A PRECONSTRUCTION CONFERENCE HELD AT A TIME AND PLACE TO BE SPECIFIED BY THE OWNER, REPRESENTATIVES OF THE CITY OF LATHROP, MACKAY & SOMPS, OWNER, AND OTHERS AS APPROPRIATE, (I.E. SOILS ENGINEER, UTILITY COMPANIES, ETC.)

9. GENERAL

DEMOLITION: DEMOLITION, IF ANY, SHALL BE DONE UNDER SEPARATE CONTRACT WITH THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY DEMOLITION PERMITS FROM CITY.

EXISTING IMPROVEMENTS: PARTICULAR CARE SHOULD BE EXERCISED BY THE CONTRACTOR WHILE WORKING (ESPECIALLY CUTTING AND FILLING) NEAR ADJACENT PROPERTIES. EXTREME CARE MUST BE TAKEN WHEN WORKING AROUND ANY EXISTING FACILITIES. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY IMPROVEMENT DAMAGED BY IT OR ITS SUBCONTRACTORS OR MATERIAL SUPPLIERS.

EXISTING UTILITY SERVICES: IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND LEAVE IN-SERVICE EXISTING UTILITY SERVICES SUCH AS GAS, POWER, COMMUNICATION, WATER, SANITARY STORM, ETC. UNLESS OTHERWISE SPECIFIED ON PLANS.

POLLUTION CONTROL: A STORM WATER POLLUTION PREVENTION PLAN WILL BE ON FILE AT THE JOB SITE. THIS PLAN DESCRIBES THE MANNER IN WHICH POTENTIAL SOURCES OF POLLUTION WILL BE MANAGED ON THE SITE AND WILL INCLUDE PROVISIONS FOR EROSION CONTROL.

THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE PROVISIONS OF THIS PLAN AND ALL OTHER LOCAL REQUIREMENTS AND CONDUCT ALL ITS OPERATIONS AND ACTIVITIES IN ACCORDANCE WITH SAME. THE PLAN WILL PROVIDE JOB SITE RULES FOR PROHIBITED OPERATIONS WHEN RAIN IS EXPECTED; EQUIPMENT FUELING, CLEANING, REPAIR & MAINTENANCE; MATERIAL DELIVERY, STOCKPILING & STORAGE; JOB SITE CLEANUP, ETC.. PROVISIONS OF THIS PLAN ARE NOT LIMITED TO TIMES OF INCLEMENT WEATHER.

ARRANGEMENTS FOR THE INSTALLATION, PROTECTION, AND/OR MAINTENANCE OF EROSION CONTROL MEASURES (BALES, WADDLES, BERMS, SWALES, PONDS, EROSION CONTROL FENCING, HYDROSEEDING, TEMPORARY PIPES AND DRAINS, TEMPORARY ARMORING, ETC.) REQUIRED BY THE STORM WATER POLLUTION PREVENTION PLAN ARE TO BE COORDINATED WITH THE OWNER.

IN ADDITION TO THE REQUIREMENTS NOTED ABOVE, ALL CONTRACTORS ARE TO COMPLY WITH THE FOLLOWING PROVISIONS.

- THE CONTRACTOR SHALL TRAIN ALL EMPLOYEES/SUBCONTRACTOR'S ON STORM WATER POLLUTION PREVENTION.
• WASHING DOWN OF STREETS OR HARD SURFACES WITH WATER THAT ENTERS THE STORM DRAINAGE SYSTEMS IS PROHIBITED. RATHER, CONTRACTORS ARE TO SWEEP ROADWAYS AS NECESSARY TO AVOID POLLUTANTS ENTERING THE STORM DRAIN SYSTEM.
• CONTRACTORS ARE TO COMPLY WITH ALL RECYCLING REQUIREMENTS OF THE LOCAL AGENCIES.
• CONTRACTORS SHALL NOT ALLOW SAW CUT SLURRY FROM ENTERING THE STORM DRAIN SYSTEM.
• CONTRACTORS SHALL INSPECT VEHICLES AND EQUIPMENT ARRIVING ON THE PROJECT FOR LEAKING FLUIDS AND SHALL PROMPTLY REPAIR ANY LEAKING VEHICLES OR EQUIPMENT. DRIP PANS SHALL BE USED TO CATCH LEAKS UNTIL REPAIRS ARE MADE. LEAKING FLUIDS SHALL BE PROPERLY DISPOSED OF.

10. STREETWORK CONSTRUCTION

IN ADDITION TO GRADING, THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING OPERATIONS:

- A. PROVIDE AND DEPOSIT IN-PLACE AT JOB SITE ALL PAVEMENT, AND BASE ROCK FOR PAVEMENT, CURB, GUTTER, SIDEWALK, HANDICAPPED RAMPS, AND DRIVEWAY APPROACHES CALLED FOR ON THE PLANS.
B. INSTALLATION OF ALL SIGNS, SURVEY MONUMENTS, PAVEMENT MARKINGS, STRIPING AND BARRICADES CALLED FOR ON THE PLANS. (NOTE THAT ALL NEW AND EXISTING MANHOLE CASTINGS, WATER VALVE BOX CASTINGS, ETC. WILL BE ADJUSTED TO GRADE AND HAVE NEW PAVEMENT PLACED AROUND CASTINGS BY THE UNDERGROUND CONTRACTOR.)

11. UNDERGROUND CONSTRUCTION

THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF WATER MAINS, STORM DRAINAGE, SANITARY SEWER FACILITIES AND THEIR RESPECTIVE APPURTENANCES AND CERTAIN INLETS (INCLUDING WATER QUALITY STENCILING). IT SHALL ALSO BE RESPONSIBLE FOR LOWERING NEW AND PREVIOUSLY EXISTING MANHOLES, VALVE BOXES, CLEANOUTS, ETC. TO BELOW SUBGRADE LEVEL (FOR COMPLETION OF FINISH GRADING, ROCKING AND PAVING BY THE GRADING CONTRACTOR) AND RAISING SAME TO FINISH GRADE INCLUDING ALL PATCH PAVING NECESSARY. THE UNDERGROUND CONTRACTOR SHALL ALSO PROVIDE A EFFECTIVE METHOD OF MARKING SEWER LATERALS AND WATER SERVICES FOR USE BY THE CONCRETE CONTRACTOR IN MARKING CURBS. HE SHALL ALSO MARK WATER VALVE LOCATIONS BY APPROPRIATE REFERENCE INDICATORS ON CURBS AS MAY BE REQUIRED BY THE CITY/ DISTRICT.

THE UNDERGROUND CONTRACTOR SHALL INCLUDE IN ITS BID THE COSTS OF ALL IMPORTED BACKFILL MATERIAL THAT MAY BE REQUIRED BY THE SOILS ENGINEER OR BY THE PUBLIC AGENCIES HAVING JURISDICTION. NO CLAIM FOR EXTRA PAYMENT WILL BE ALLOWED FOR IMPORTED TRENCH BACKFILL OR TRENCH BEDDING MATERIAL AS REQUIRED BY THE SOILS ENGINEER OR BY THE CITY, OR DISTRICT HAVING JURISDICTION.

THE UNDERGROUND CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SHORING OF SEWER TRENCHES IN ACCORDANCE WITH ALL APPLICABLE OCCUPATIONAL SAFETY LAWS. COST FOR THIS SHALL BE INCLUDED IN UNIT PRICES FOR VARIOUS ITEMS OF WORK AND NO ADDITIONAL COMPENSATION SHALL BE MADE. IT IS SUGGESTED THAT THE CONTRACTOR ENGAGE A CONSULTING ENGINEER TO DESIGN SHORING.

THE UNDERGROUND CONTRACTOR IS RESPONSIBLE TO REVIEW THE PLANS AND SITE OF WORK TO DETERMINE THE EXTENT OF PAVEMENT REMOVAL AND/OR REPAIR OR OTHER REMOVAL AND REPLACEMENT OR DEMOLITION THAT WILL BE REQUIRED TO CONSTRUCT UNDERGROUND LINES THROUGH EXISTING PAVEMENT OR OTHER AREAS. COST OF PAVEMENT, REPAIR, OR OTHER REMOVAL AND REPLACEMENT AND/OR REPAIR REQUIRED SHALL BE INCLUDED IN THE UNIT PRICES OF THE APPLICABLE ITEMS OF WORK AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THEREFORE.

THE UNDERGROUND CONTRACTOR SHALL INCLUDE IN ITS BID THE COSTS OF ALL FITTINGS, SHORTER THAN STANDARD PIPE LENGTHS, OR BEVELED END PIPE THAT ARE REQUIRED TO ACHIEVE THE PIPE ALIGNMENTS SHOWN ON THE PLANS WHETHER OR NOT THESE ITEMS ARE SPECIFICALLY CALLED FOR ON THE PLANS OR BID PROPOSAL FORMS, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THEREFORE.

THE UNDERGROUND CONTRACTOR SHALL COMMENCE CONSTRUCTION FROM THE LOW END OF ALL GRAVITY LINES. SHOULD THE UNDERGROUND CONTRACTOR FAIL TO DO SO, AND SHOULD SUCH FAILURE RESULT IN AN UNDERGROUND SYSTEM THAT WILL NOT FUNCTION PROPERLY, THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE TO REMEDY THE SITUATION AT HIS OWN COST AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THEREFORE.

THE UNDERGROUND CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE PROJECT'S SOILS REPORT. IF SUB-SURFACE CONDITIONS REQUIRE A CHANGE IN TRENCHING METHODS FROM THAT ANTICIPATED, NO EXTRA COMPENSATION WILL BE ALLOWED. THE CONTRACTOR IS WELCOME TO OBTAIN HIS OWN SOIL BORINGS IF HE SO DESIRES. THIS SOILS WORK SHALL BE COORDINATED WITH THE OWNER.

THE UNDERGROUND CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION AND ALIGNMENT OF EXISTING UTILITY SYSTEMS TO BE CONNECTED TO. DISCREPANCIES, IF ANY, SHALL BE REPORTED TO MACKAY & SOMPS IN ACCORDANCE WITH THE "DISCREPANCIES" SECTION OF THESE SPECIFICATIONS.

IT IS SOMETIMES REQUIRED OR REQUESTED THAT THE OWNER'S ENGINEER PROVIDE GRADES FOR THE UPSTREAM END OF SANITARY LATERALS. IF THIS IS DONE, THE UNDERGROUND CONTRACTOR SHALL NOT ASSUME THAT THE LATERALS ARE TO BE LAID ON A STRAIGHT GRADE FROM THE MAIN TO THE END OF THE LATERAL. THE UNDERGROUND CONTRACTOR SHALL REVIEW THE PLANS TO DETERMINE IF GRADE BREAKS IN THE LATERAL ARE NECESSARY (22.5' MAXIMUM DEFLECTION) OR IF WYES NEED TO BE SET A CERTAIN WAY TO AVOID CONFLICTS WITH OTHER UTILITIES AND SHALL CONSTRUCT THE LATERAL AND WYE.

12. GRADING/UNDERGROUND COORDINATION

A. BACKFILL FOR UTILITY LINES SHALL BE AS REQUIRED BY THE SOILS ENGINEER AND CITY/DISTRICT. BACKFILL SHALL BE OBSERVED BY THE SOILS ENGINEER. SUCH OBSERVATIONS SHALL BE SCHEDULED AND COORDINATED BY THE UNDERGROUND CONTRACTOR. SOILS ENGINEER'S FEES WILL BE PAID BY THE OWNER. CITY WILL PROVIDE TESTING AND OBSERVATION SERVICES DURING UTILITY TRENCH BACKFILL AND ROADWAY CONSTRUCTION.

B. THE GRADING CONTRACTOR SHALL CONSULT WITH THE UNDERGROUND CONTRACTOR PRIOR TO GRADING SO THAT PROPER UNDERCUTTING, TO ACCOMMODATE ANTICIPATED TRENCH SPOILS, CAN BE ACCOMPLISHED.

C. VARIOUS AGENCIES AND/OR UTILITY DISTRICTS HAVE ESTABLISHED REQUIREMENTS FOR SUBGRADE PREPARATION WHICH MUST BE ATTAINED PRIOR TO WATER MAIN INSTALLATION. IT SHALL BE THE UNDERGROUND CONTRACTOR'S RESPONSIBILITY TO CONFORM TO THESE REQUIREMENTS AND BEAR THE COST FOR REGRADING STREET AREAS IF REQUIRED. ORIGINAL ROUGH GRADE STAKES ARE TO BE USED TO RE-ESTABLISH SUBGRADE.

13. CONCRETE CONSTRUCTION

THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING CONSTRUCTION ITEMS:

A. CONSTRUCTION OF ALL CURB, GUTTER, SIDEWALK, HANDICAPPED RAMPS, CURB INLETS AND CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE REMOVAL AND DISPOSAL AS CALLED FOR ON THE PLANS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS OR ON THE BID PROPOSAL FORM.

B. CONSTRUCTION OF ALL CURB, GUTTER, SIDEWALK AND HANDICAP RAMPS SHALL BE AS SPECIFIED ON THE CITY STANDARD DETAILS AND/OR AS SHOWN ON IMPROVEMENT PLANS.

C. MARKING SEWER LATERAL AND WATER SERVICE LOCATIONS IN THE CURB, AND "WATER QUALITY" STENCILING OF STORM INLETS.

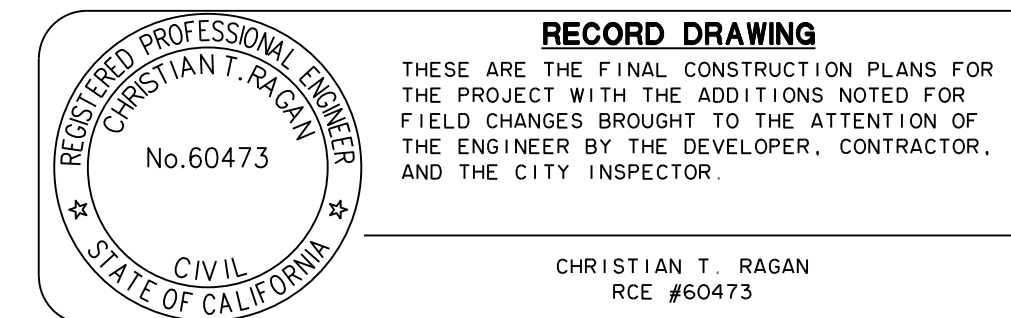
D. EXPOSE AND VERIFY LOCATION OF "AS-BUILT" STORM LATERAL WHILE EXCAVATING FOR STORM WATER INLET. DISCREPANCIES, IF ANY, SHALL BE REPORTED TO MACKAY & SOMPS IN ACCORDANCE WITH THE "DISCREPANCIES" SECTION OF THESE SPECIFICATIONS.

E. IF THE CURB AND SIDEWALK IS MACHINE POURED, THE CONCRETE CONTRACTOR SHALL LEAVE "OPENINGS" THAT ARE A MINIMUM OF 10 FEET WIDE FOR THE STORM WATER INLETS OR EXPOSE, VERIFY, AND MARK THE LOCATION OF ALL STORM LATERAL STUBS PRIOR TO THE POUR IF SMALLER "OPENINGS" ARE DESIRED.

F. IF P.G.&E. FACILITIES ARE INSTALLED PRIOR TO POURING STORM WATER INLETS, THE CONCRETE CONTRACTOR SHALL USE APPROPRIATE CARE IN EXCAVATING FOR THE STORM WATER INLETS. IF THE P.G.&E. FACILITIES ARE DAMAGED THROUGH THE CONCRETE CONTRACTOR'S ACTIVITIES, THE CONCRETE CONTRACTOR WILL BE HELD RESPONSIBLE FOR SAID DAMAGES.

14. TRAFFIC CONTROL PLAN

A. CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN FOR ALL CONSTRUCTION ACTIVITIES AFFECTING PUBLIC RIGHT OF WAY.



RECORD DRAWING
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CHRISTIAN T. RAGAN
RCE #60473



Table with columns: NO., DESCRIPTION, CHECKED BY, CITY APPROVAL, APPROVED BY, DATE



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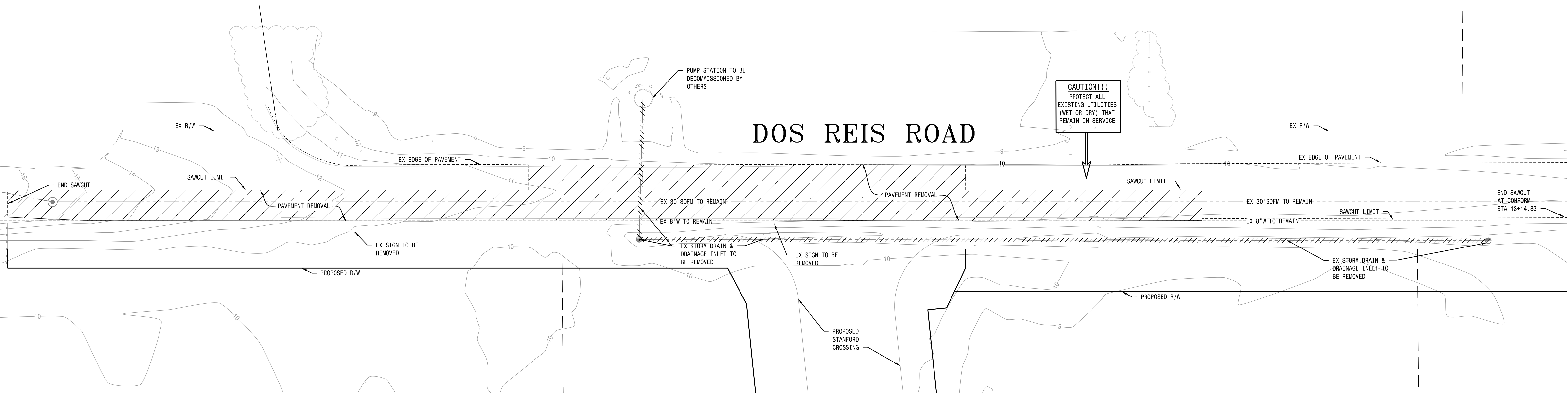
BY: Christian T. Ragan 3/25/2025
CHRISTIAN T. RAGAN RCE No. 60473

STANFORD CROSSING EXTENSION

PROJECT SPECIFICATIONS

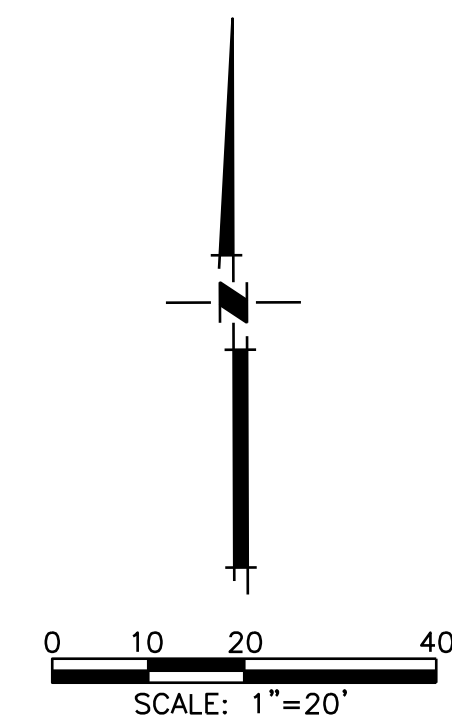
DEPARTMENT OF PUBLIC WORKS
CITY OF LATHROP, CALIFORNIA

Table with project details: DATE: MARCH 2025, SCALE: AS SHOWN, DRAWN BY: EN, DESIGNED BY: RC, CHECKED BY: JM, PROJECT NO. 25257.D, SHEET NO. C4, SHEET 4 of 9



LEGEND:

EXISTING OR BY OTHERS	PROPOSED	
-----	-----	SAW CUT LINE
-----	-----	GRIND AND OVERLAY LIMIT
~~~~~	~~~~~	CONTOUR LINE
-----	-----	FACE OF CURB
	//////	PAVEMENT REMOVAL
	-----	UTILITY REMOVAL



**RECORD DRAWING**  
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REGISTERED PROFESSIONAL ENGINEER  
 CHRISTIAN T. RAGAN  
 No. 60473  
 CIVIL  
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
 CHRISTIAN T. RAGAN  
 No. 60473  
 CIVIL  
 STATE OF CALIFORNIA

**STANFORD CROSSING EXTENSION**  
**DEMO PLAN**  
 DEPARTMENT OF PUBLIC WORKS  
 CITY OF LATHROP, CALIFORNIA

DATE: MARCH 2025  
 SCALE: AS SHOWN  
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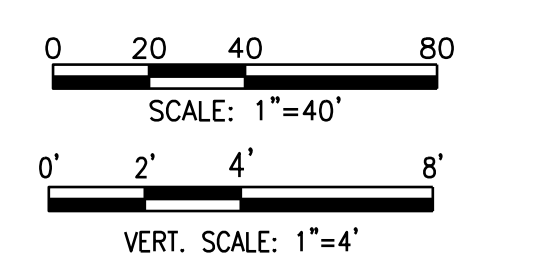
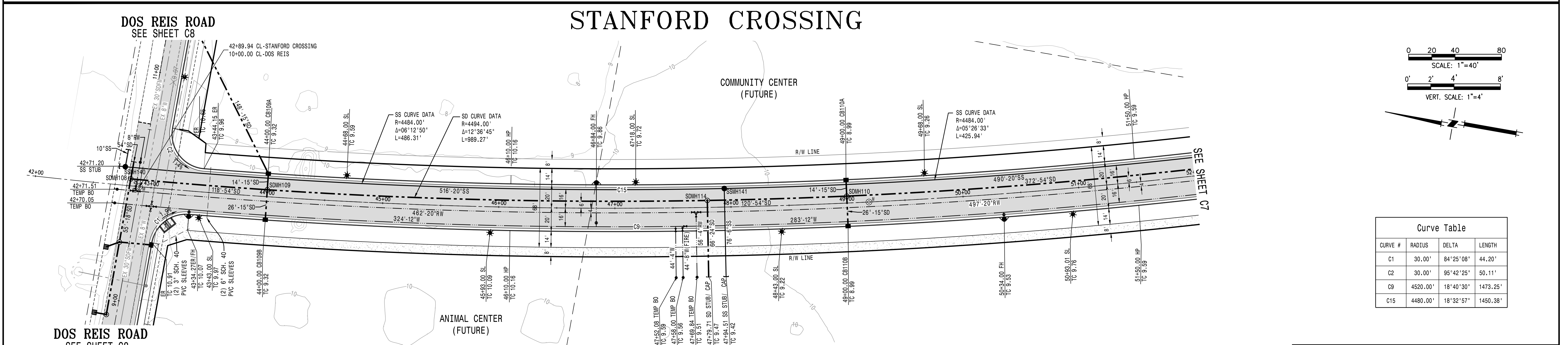
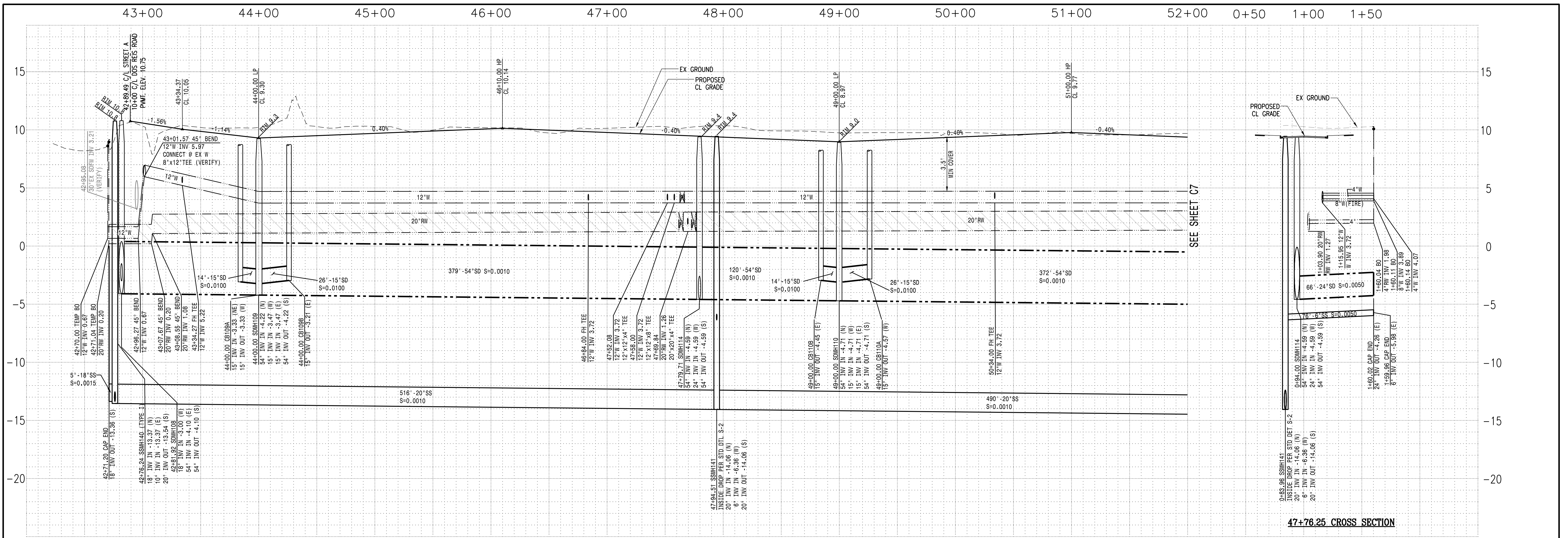
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 CITY OF LATHROP

PROJECT NO. 25257.D  
 SHEET NO. C5  
 SHEET 5 OF 9

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Mackay & Soms**  
 ENGINEERS PLANNERS SURVEYORS  
 PLEASANTON, CA (925)225-0690

PLANS PREPARED UNDER THE DIRECTION OF:  
 BY: *Christian T. Ragan* 3/25/2025  
 CHRISTIAN T. RAGAN RCE No. 60473



Curve Table		
CURVE #	RADIUS	LENGTH
C1	30.00'	84°25'08" 44.20'
C2	30.00'	95°42'25" 50.11'
C9	4520.00'	18°40'30" 1473.25'
C15	4480.00'	18°32'57" 1450.38'



ELECTRONIC VERSIONS OF THE LNEWORK ON THIS PLAN MAY NOT BE CONSISTENT WITH OTHER DIMENSIONS, NOTES, DETAILS OR DESCRIPTIONS WHICH CONTROL THE INTENDED DESIGN. ELECTRONIC VERSIONS OF THIS PLAN ARE NOT TO BE USED TO ESTABLISH THE LOCATION OF PROPERTY OR IMPROVEMENTS IN THE FIELD.

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			APPROVED BY	DATE

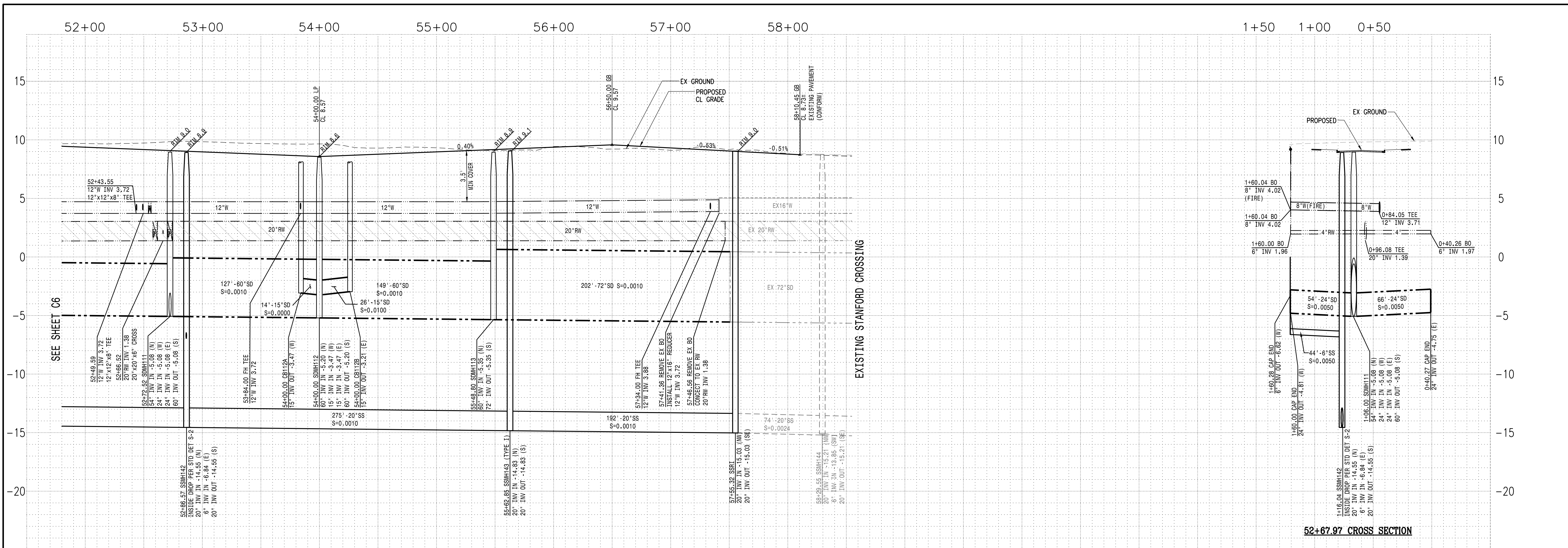
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 CHRISTIAN T. RAGAN  
 RCE #60473



PLANS PREPARED UNDER THE DIRECTION OF:  
 BY: *Christian T. Ragan* 3/25/2025  
 CHRISTIAN T. RAGAN RCE No. 60473

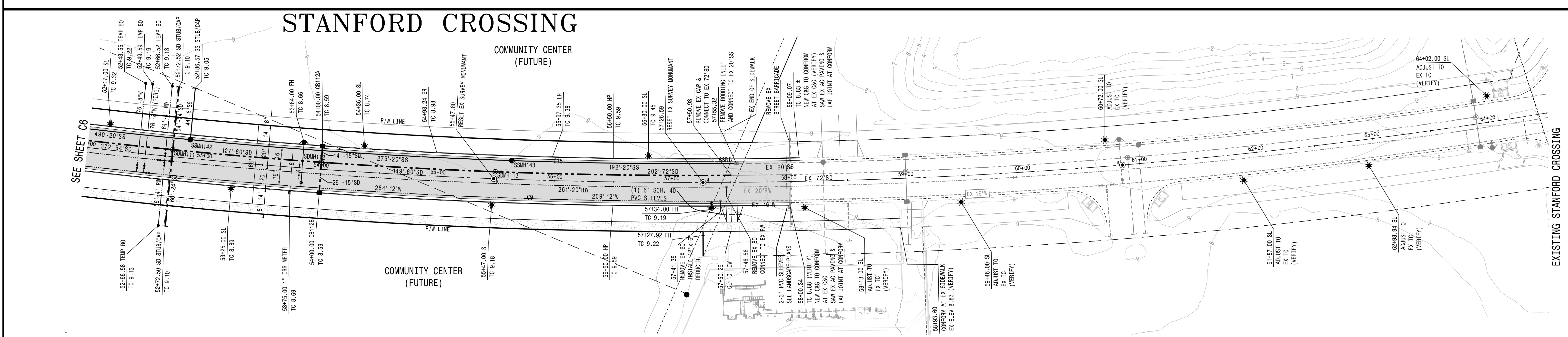
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 PLAN AND PROFILE STA. 43+08+/- TO STA. 52+00  
 STANFORD CROSSING  
 DEPARTMENT OF PUBLIC WORKS  
 CITY OF LATHROP, CALIFORNIA

DATE: MARCH 2025	RECOMMENDED FOR APPROVAL BY: _____ DATE: _____	PROJECT NO. 25257.D
SCALE: AS SHOWN	DRAWN BY: EN	SHEET NO. C6
DESIGNED BY: RC	CHECKED BY: JM	CITY OF LATHROP
SHEET 6 OF 9		



1+50 1+00 0+50

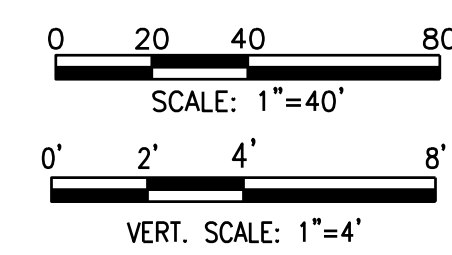
52+67.97 CROSS SECTION



# STANFORD CROSSING

COMMUNITY CENTER (FUTURE)

COMMUNITY CENTER (FUTURE)



CURVE #	RADIUS	DELTA	LENGTH
C9	4520.00'	18°40'30"	1473.25'
C15	4480.00'	18°32'57"	1450.38'



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CHRISTIAN T. RAGAN  
RCE #60473



**STANFORD CROSSING EXTENSION**  
PLAN AND PROFILE STA. 52+00 TO STA. 57+53+/-  
STANFORD CROSSING  
DEPARTMENT OF PUBLIC WORKS  
CITY OF LATHROP, CALIFORNIA



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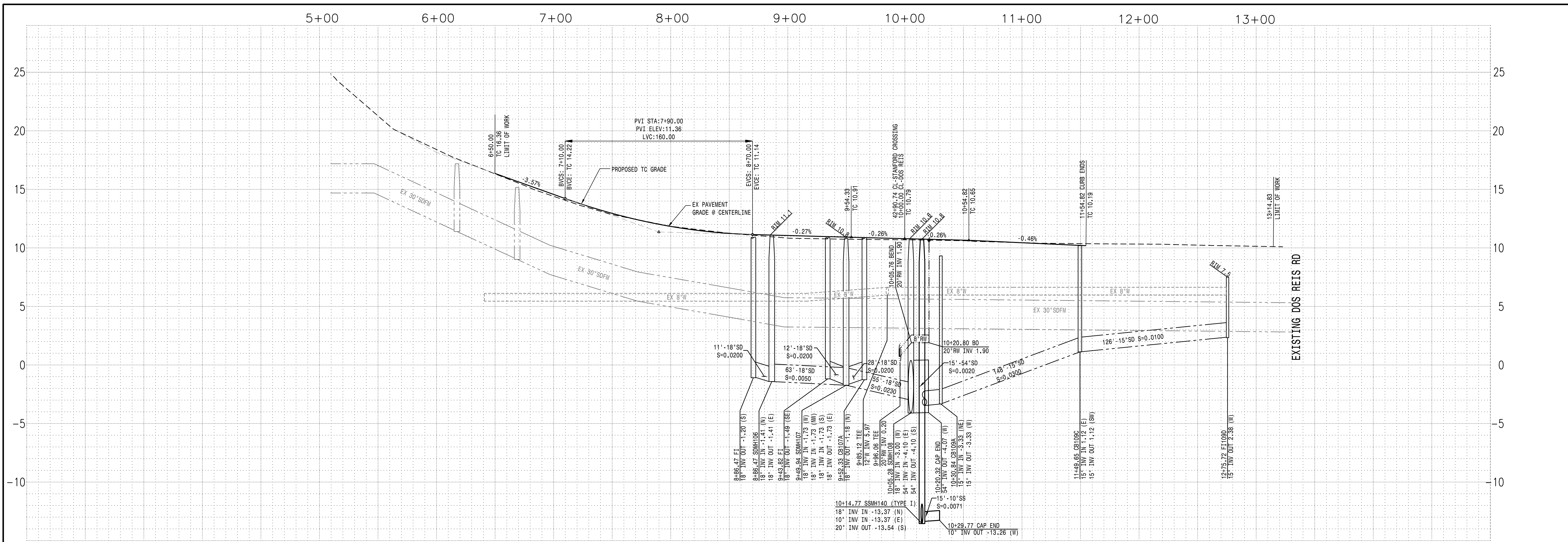
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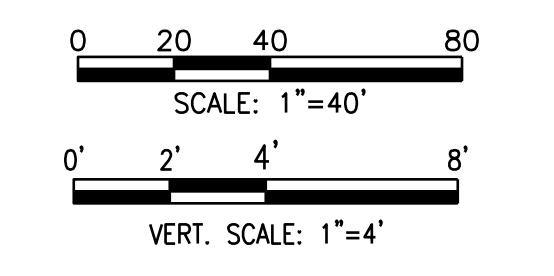
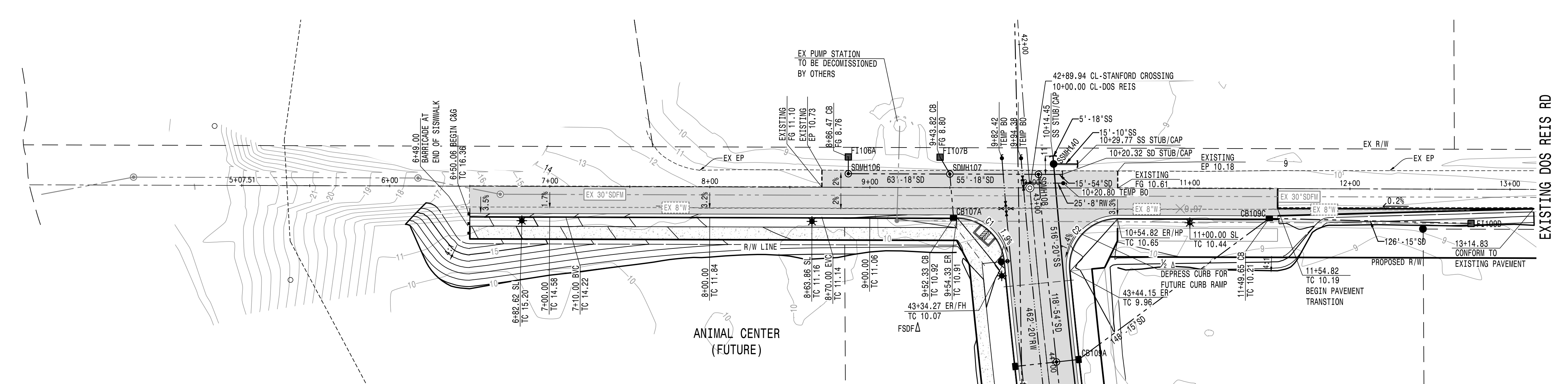
PLANS PREPARED UNDER THE DIRECTION OF:  
BY: *Christian T. Ragan* 3/25/2025  
CHRISTIAN T. RAGAN RCE No. 60473

DATE: MARCH 2025	RECOMMENDED FOR APPROVAL BY: DATE:	PROJECT NO. 25257.D
SCALE: AS SHOWN	DESIGNED BY: EN	SHEET NO. C7
DRAWN BY: RC	CHECKED BY: JM	SHEET 7 OF 9





# DOS REIS ROAD



Curve Table			
CURVE #	RADIUS	DELTA	LENGTH
C1	30.00'	84°25'08"	44.20'
C2	30.00'	95°42'25"	50.11'
C3	4520.00'	0°54'01"	71.02'

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REGISTERED PROFESSIONAL ENGINEER  
 CHRISTIAN T. RAGAN  
 No. 60473  
 CIVIL  
 STATE OF CALIFORNIA

CHRISTIAN T. RAGAN  
 RCE #60473

**STANFORD CROSSING EXTENSION**  
**PLAN AND PROFILE STA. 6+00.00 TO STA. 10+54.82**  
**DOS REIS ROAD WIDENING**  
 DEPARTMENT OF PUBLIC WORKS  
 CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL
APPROVED BY	DATE		

PLANS PREPARED UNDER THE DIRECTION OF:

**Mackay & Somp**  
 ENGINEERS PLANNERS SURVEYORS  
 PLEASANTON, CA (925)225-0690

BY: *Christian T. Ragan* 3/25/2025  
 CHRISTIAN T. RAGAN RCE No. 60473

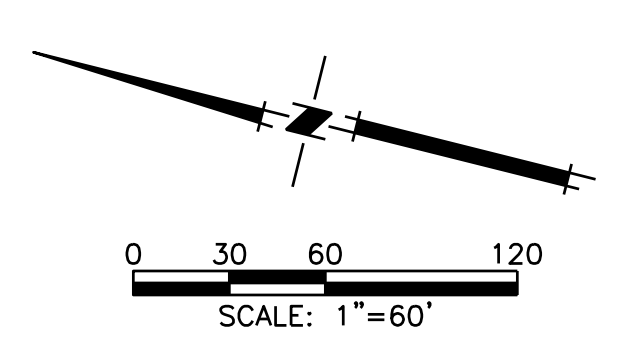
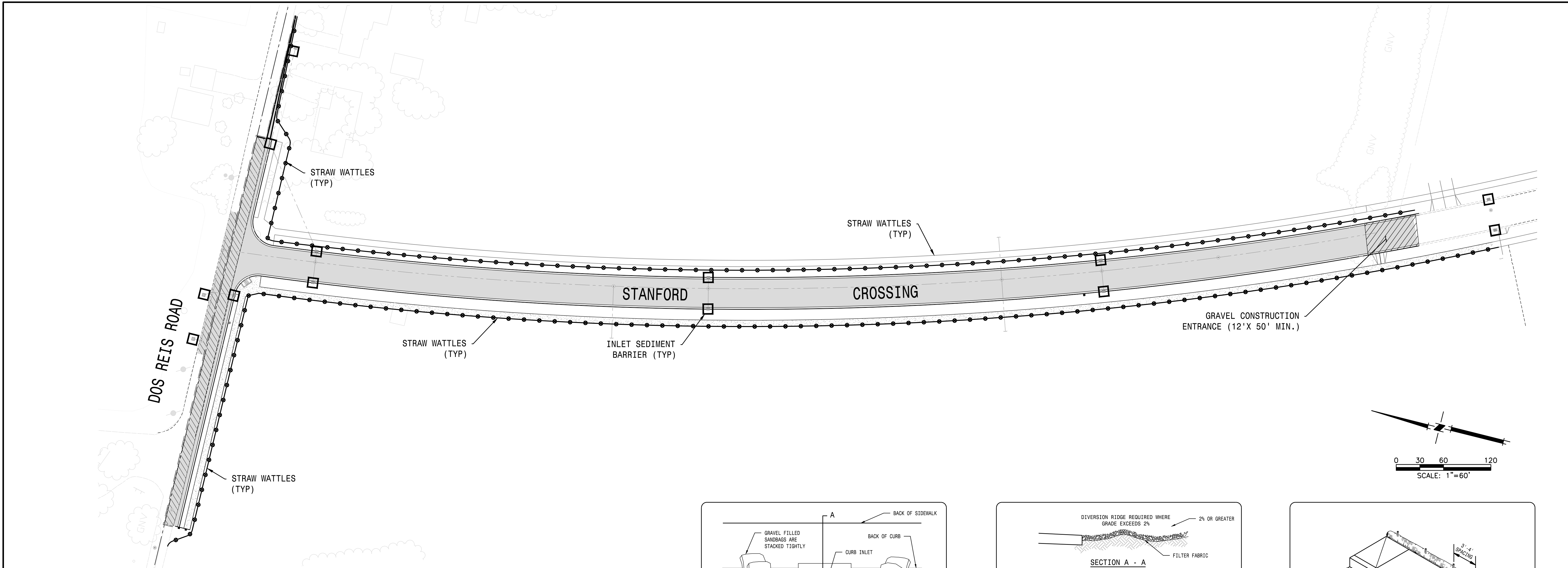
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 CITY OF LATHROP

PROJECT NO. 25257.D  
 SHEET NO. C8  
 SHEET 8 OF 9



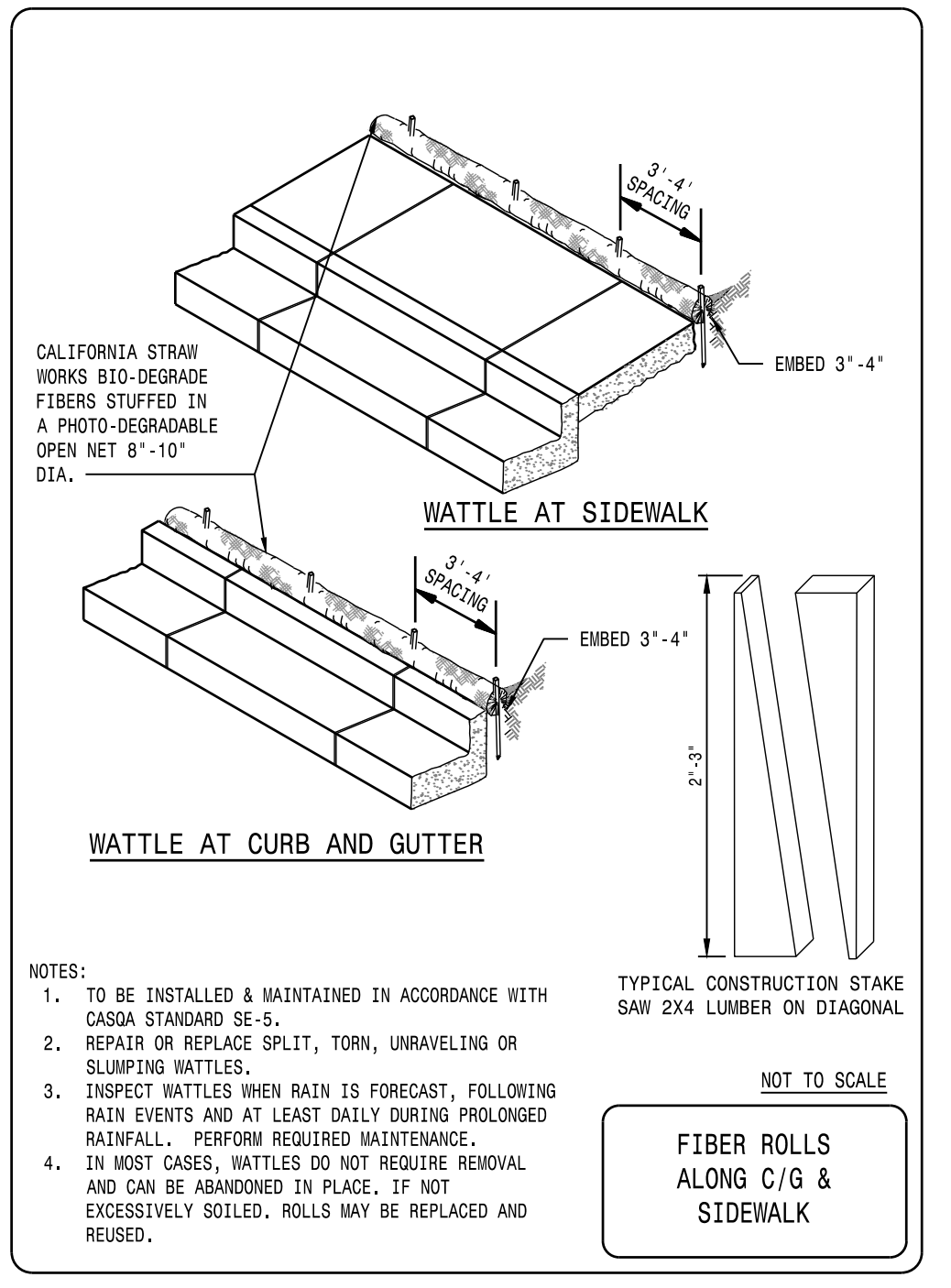
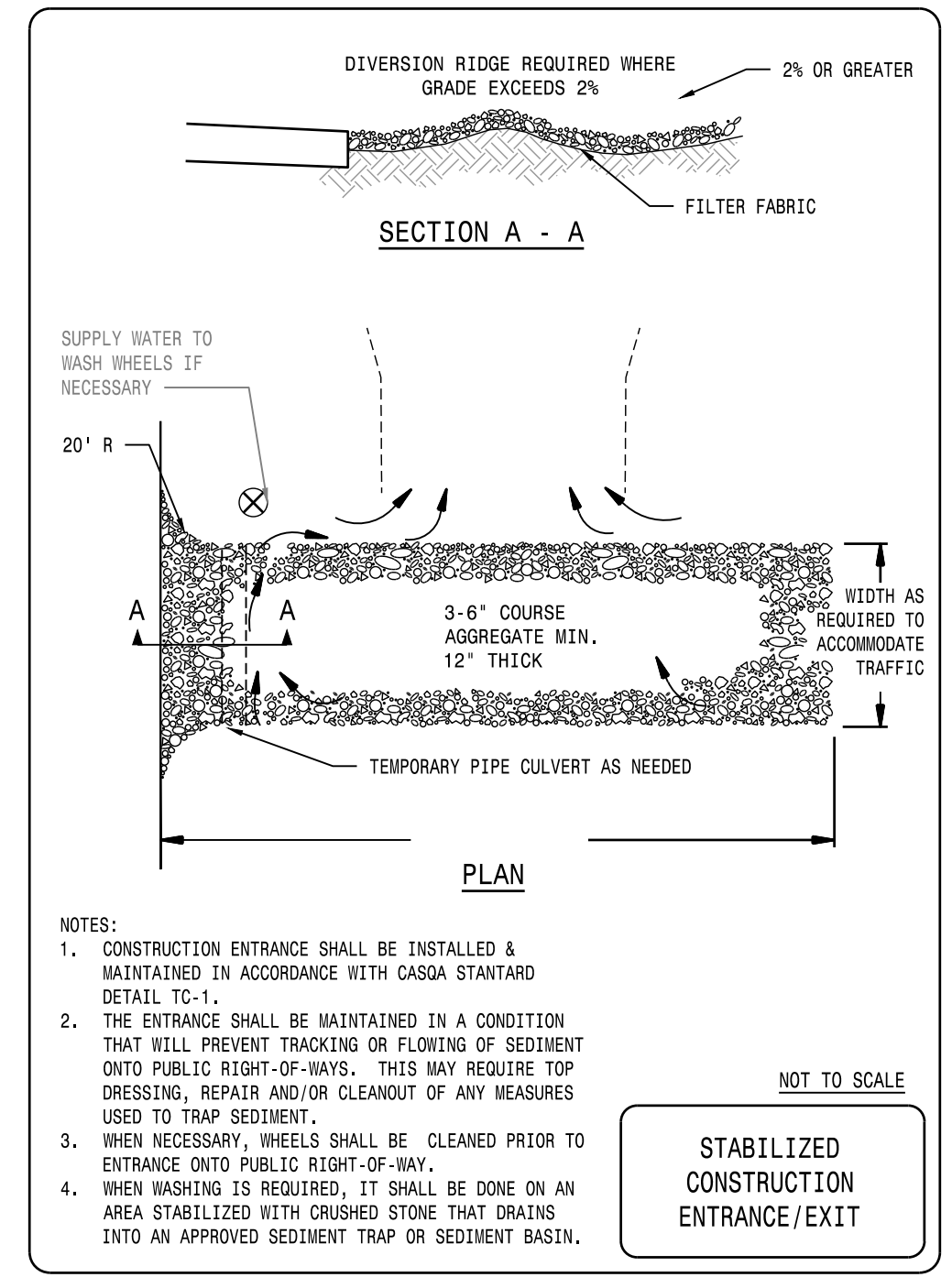
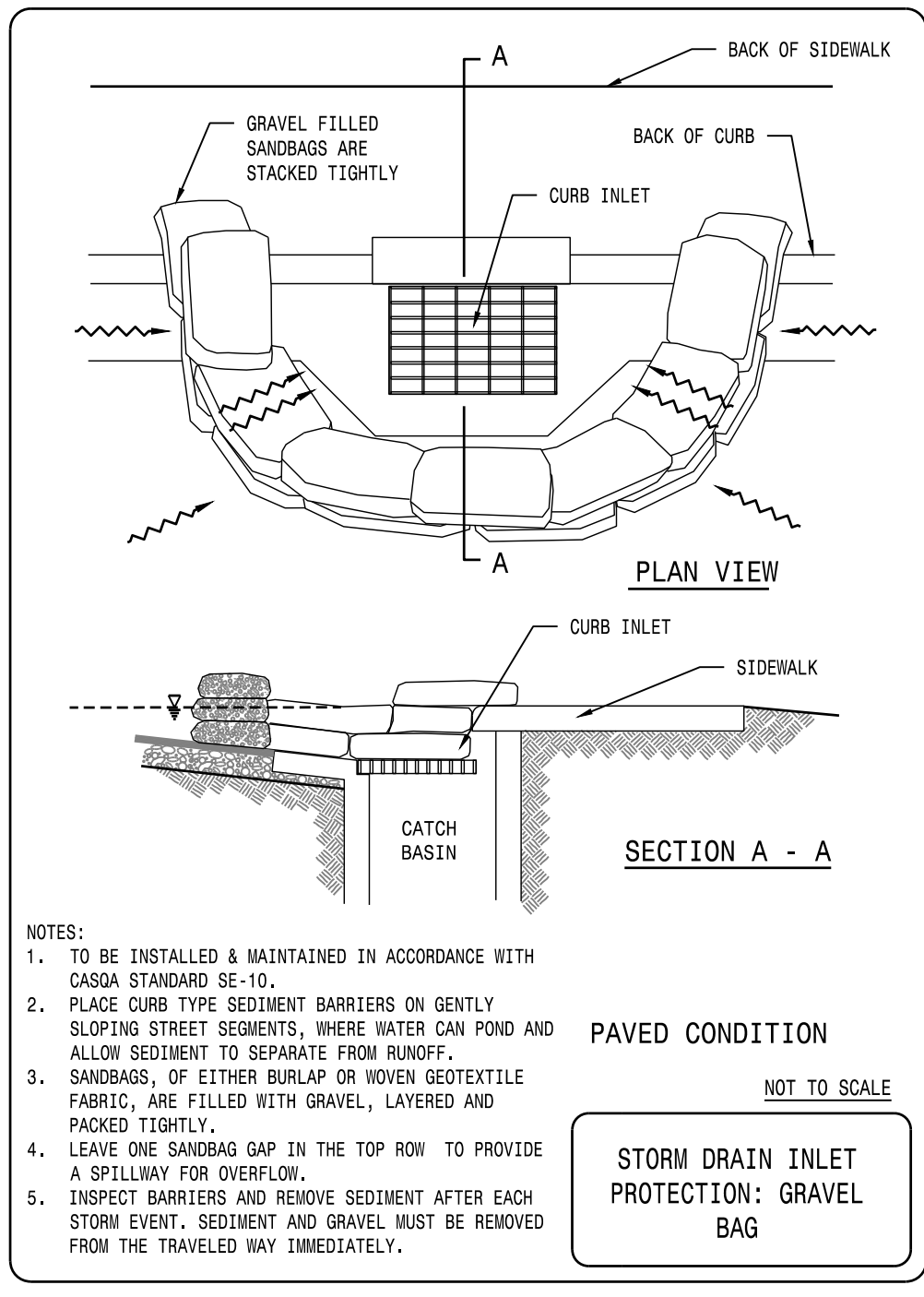
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**EROSION CONTROL NOTES:**

1. EROSION CONTROL DEVICES SHOWN ON THE PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WHEN THE CITY INSPECTOR/OWNER AND QUALIFIED SWPPP PRACTITIONER (QSP) SHOULD BE DIRECTING/APPROVING THE EROSION CONTROL WORK AS NEEDED AS THE WORK PROGRESSES.
2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE CITY INSPECTOR/OWNER AND QUALIFIED SWPPP PRACTITIONER (QSP).
3. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED STREET AREAS AT INTERVALS OF TWO FT OF VERTICAL CHANGE IN ELEVATION. VELOCITY CHECK DAMS SHALL BE CONSTRUCTED OF STAKED STRAW BALES, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE INSPECTOR, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. EARTH DIKES SHALL NOT BE USED AS VELOCITY CHECK DAMS.
4. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDING SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS-FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTER LINE OF A CROWNED STREET.
5. EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FORECAST OF RAIN PROBABILITY EXCEEDS 40%.
6. ALL BASINS AND CHECK DAMS SHALL HAVE BEEN PUMPED DRY, AND ALL DEBRIS AND SILT REMOVED WITHIN 24 HOURS AFTER EACH STORM.
7. HYDROSEED ALL FILL AND CUT SLOPES AS APPROVED BY CITY GUIDELINES AND / OR ORDINANCES, OR AS SHOWN ON THESE PLANS.
8. STRAW BALES SHALL BE STOCKPILED ADJACENT TO EACH POINT OF USE AS SHOWN ON THE EROSION CONTROL PLAN, READY TO BE PLACED IN POSITION WHEN THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR.
9. THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE OPERABLE YEAR-ROUND.
10. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY INSPECTOR/OWNER AND QUALIFIED SWPPP PRACTITIONER (QSP).
11. ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT - LADEN RUNOFF ENTERS THE STORM DRAINAGE SYSTEM.
12. AS STORM DRAIN IMPROVEMENTS ARE CONSTRUCTED, ALL STRUCTURES AND INLET PIPES SHALL BE PROTECTED FROM INFLOW OF SILT BY STRAW BALE SILT BARRIER PER DETAIL. IN AREAS WHERE GRADING OCCURS BUT INLETS ARE NOT CONSTRUCTED, STRAW BALE CHECK DAMS ARE TO BE PLACED AT FUTURE INLET LOCATIONS.
13. CONTRACTOR SHALL HAVE TOOLS, EQUIPMENT, AND MATERIALS TO PROVIDE EROSION CONTROL MEASURES MADE NECESSARY BY A CONSTRUCTION OPERATION, ON THE JOB SITE BEFORE BEGINNING THAT OPERATION.
14. ADJACENT PROPERTIES SHALL BE PROTECTED FROM STORM WATERS, MUD, SILT, ETC.

15. FOR EROSION CONTROL PURPOSES, THIS PLAN ASSUMES ALL HYDROSEEDING WILL BE COMPLETED PRIOR TO THE START OF THE RAINY SEASON (OCTOBER 1 TO APRIL 15).
16. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
  - a. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END OF EACH WORKING DAY.
  - b. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS REQUIRED.
  - c. SILT FENCES, BERMS AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
  - d. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAPS RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO WITHIN ONE FOOT OF OUTLET ELEVATION.
  - e. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
17. CONSTRUCTION ENTRANCE CONSISTING OF AN 8" THICK LAYER OF 2"-3" COARSE DRAINROCK FOR A DISTANCE OF 50 FEET IS TO BE PROVIDED AT EACH VEHICLE ACCESS POINT FROM UNPAVED ROADS TO EXISTING PAVED STREETS.
18. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE INSPECTOR/OWNER AND QUALIFIED SWPPP PRACTITIONER (QSP).
19. THE CONTRACTOR SHALL MEET AND FOLLOW ALL NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
20. HYDROSEED AND/OR BLOWN STRAW SHALL BE APPLIED TO ALL GRADED AREAS PRIOR TO OCTOBER 1ST. HYDROSEED SHALL BE APPLIED TO AREAS GRADED AT 5:1 OR STEEPER. BLOWN STRAW SHALL BE APPLIED ON ALL STRAIGHT GRADED PAD AREAS LESS THAN 5:1 SLOPE. HYDROSEED AREAS SHALL BE WATERED UNTIL VEGETATION IS ESTABLISHED.
21. HYDROSEED SHALL BE APPLIED TO FRESHLY GRADED SLOPES WHILE SOIL REMAINS FRIABLE AND WEED-FREE.
22. ANY RELATED STANDARDS FOR GRADING, EROSION CONTROL AND LANDSCAPING MUST BE OBSERVED.
23. FIELD CONDITIONS MAY VARY AND ALTERNATIVE BMP'S MAY BE REQUIRED. THIS PLAN SHALL BE MODIFIED BY THE CONTRACTOR/ EROSION CONTROL SPECIALIST (QUALIFIED SWPPP DEVELOPER OR PRACTITIONER TO ACCOUNT FOR ACTUAL FIELD CONDITIONS.
24. THIS EROSION CONTROL PLAN HAS BEEN PREPARED TO MEET CITY OF LATHROP STANDARDS ONLY. IT REQUIRES A PROJECT SWPPP BE PREPARED BY A QUALIFIED SWPPP DEVELOPER (QSD) WHO WILL ASSUME RESPONSIBILITY FOR PROJECT COMPLIANCE WITH THE STATE GENERAL CONSTRUCTION PERMIT AND WHOSE RECOMMENDATIONS WILL SUPERCEDE THIS PLAN ACCORDINGLY.
25. ANY REVISIONS TO THE APPROVED PLANS SUBMITTED TO THE STATE BOARD SHALL BE DOWNLOADED ONTO THE STATE REGIONAL WATER BOARD SMARTS DATABASE BY THE LEGAL RESPONSIBLE PARTY OR THEIR DESIGNEE.



**RECORD DRAWING**  
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.  
 CHRISTIAN T. RAGAN  
 RCE #60473



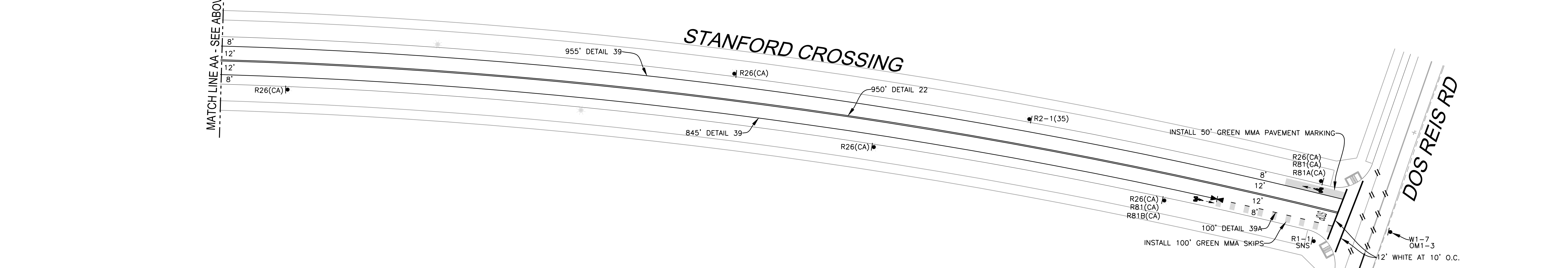
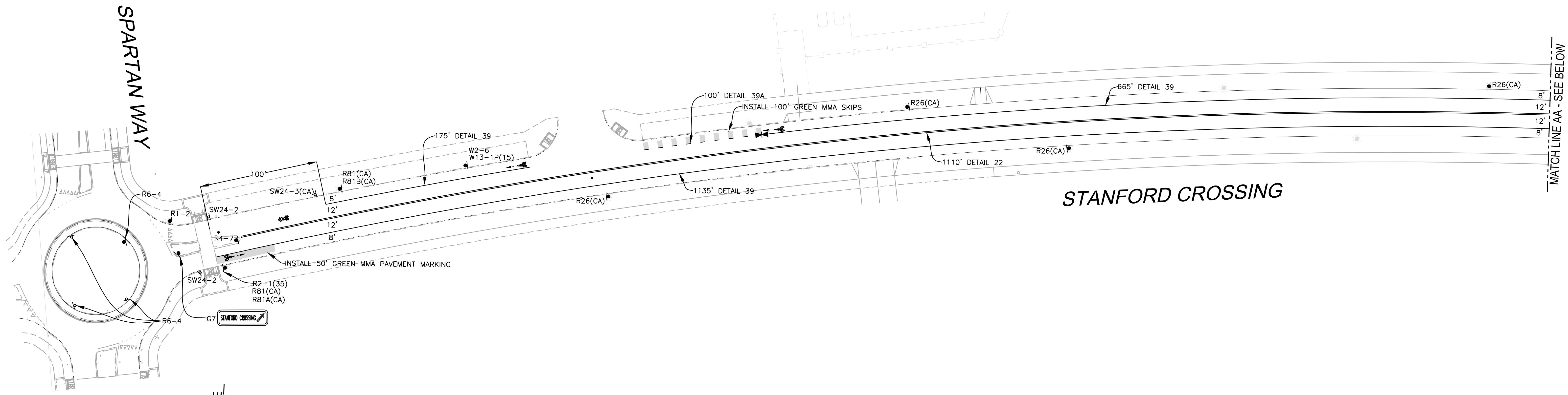
**STANFORD CROSSING EXTENSION**  
**EROSION CONTROL PLAN**  
 DEPARTMENT OF PUBLIC WORKS  
 CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Mackay & Somp**  
 ENGINEERS PLANNERS SURVEYORS  
 PLACENTIA, CA (925)225-0690

PLANS PREPARED UNDER THE DIRECTION OF:  
 BY: *Christian T. Ragan* 3/25/2025  
 CHRISTIAN T. RAGAN RCE No. 60473

DATE: MARCH 2025	RECOMMENDED FOR APPROVAL BY: _____ DATE: _____	PROJECT NO. 25257.D
SCALE: AS SHOWN	DRAWN BY: EN	SHEET NO. C9
DESIGNED BY: RC	CHECKED BY: JM	CITY OF LATHROP
SHEET 9 OF 9		

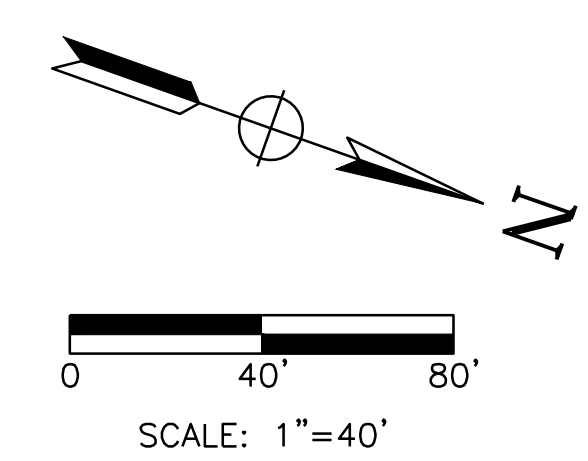


**NOTES (SIGNING AND STRIPING SHEETS)**

1. ALL STRIPING AND TRAFFIC SIGNING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION, CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND CITY OF LATHROP STANDARD PLANS.
2. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR (KEN REED) AT (209) 941-7363 TWO WORKING DAYS PRIOR TO LAYOUT OF THE PROPOSED SIGNING AND STRIPING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND CAT TRACKING OF ALL PROPOSED STRIPING AND MARKING. NO PERMANENT STRIPING OR MARKING SHALL BE PLACED UNTIL CAT TRACKING IS APPROVED BY THE CITY TRAFFIC ENGINEER.
4. ALL CONSTRUCTION MATERIALS, SIGNING, STRIPING, PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE FURNISHED AND INSTALL BY THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS SHALL CONFORM TO CALTRANS PLAN A24. ALL PAVMENT STRIPING SHALL CONFORM TO CALTRANS STANDARD PLAN A20.
6. ALL DETAIL NUMBERS REFER TO CALTRANS STANDARD PLANS STRIPING DETAILS.
7. CONTRACTOR SHALL USE THERMOPLASTIC FOR ALL PAVEMENT STRIPING. CAT TRACKING SHALL BE APPROVED BY CITY TRAFFIC ENGINEER PRIOR TO INSTALLING ANY PERMANENT MARKINGS (MIN. 48 HRS ADVANCE NOTICE).
8. CONTRACTOR SHALL REMOVE EXISTING STRIPING THAT IS IN CONFLICT WITH PROPOSED STRIPING.
9. CONTRACTOR SHALL SLURRY SEAL ANY DAMAGED PAVEMENT AREAS PRIOR TO INSTALLING THERMOPLASTIC STRIPING.
10. a. ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE SAFE AND ORDERLY MOVEMENT OF VEHICLES AND PEDESTRIANS WITHIN AND THROUGH THE DEVELOPMENT SHALL BE IN PLACE PRIOR TO OCCUPANCY OF ANY UNITS.  
b. PRIOR TO ACCEPTANCE OF STREET IMPROVEMENTS BY THE CITY, THE DEVELOPER SHALL INSTALL ANY ADDITIONAL TRAFFIC SIGNS, STRIPING, AND PAVEMENT MARKINGS DETERMINED NECESSARY BY THE CITY'S TRAFFIC ENGINEER AFTER INSPECTION OF THE FINAL PHYSICAL IMPROVEMENTS FOR ALIGNMENT AND PROFILE TO INSURE SAFE OPERATION OF ALL INTERSECTIONS AND SEGMENTS OF STREETS.
11. CONTRACTOR SHALL INSTALL NEW BLUE FIRE HYDRANT MARKER AT ALL FIRE HYDRANTS.

**LEGEND (SIGNING AND STRIPING SHEETS)**

- EXISTING SIGN TO REMAIN
- INSTALL NEW SIGN
- PROPOSED STREET LIGHT
- INSTALL NEW THERMOPLASTIC STRIPING PER DETAIL NUMBER
- EXISTING STRIPING TO REMAIN
- CONFORM/END/CHANGE DETAILS
- PROPOSED FIRE HYDRANT BLUE MARKER (TYP)
- INSTALL NEW BIKE LANE MARKING PER CALTRANS STANDARD PLANS A24A AND A24C.
- INSTALL NEW BIKE SHARROW MARKING PER CALTRANS STANDARD PLANS A24C.
- OM1-3 OBJECT MARKER
- R1-1 STOP
- R1-2 YIELD
- R2-1 SPEED LIMIT
- R4-7 KEEP RIGHT
- R26(CA) NO PARKING ANYTIME
- R81(CA) BIKE LANE
- R81A(CA) BEGIN
- R81B(CA) END
- SW24-2 SCHOOL CROSSWALK WITH ARROW
- SW24-3 SCHOOL CROSSWALK AHEAD
- W1-7 2 DIRECTIONAL ARROW
- W3-2 YIELD AHEAD
- W2-6 ROUNDABOUT
- W13-1P ADVISORY SPEED



**TJKM** 4305 Hacienda Drive, Suite 550  
Pleasanton, CA 94588  
tjkm@tjkm.com

R.C.E. 73840

DESIGNED: ESB  
DRAWN: AM  
CHECKED: ESB

CITY OF LATHROP

STANFORD CROSSING EXTENTION

SIGNING AND STRIPING PLANS

DRAWING NO. SS-1 SHEET 1 OF 1

DATE: MARCH 2025 SCALE: 1"=40' PROJECT NO. 228-054

# Stanford Crossing Road Extension

## Stanford Crossing, Lathrop, CA

# Landscape Improvement Plans



Prepared for:  
Saybrook Fund Advisors, LLC

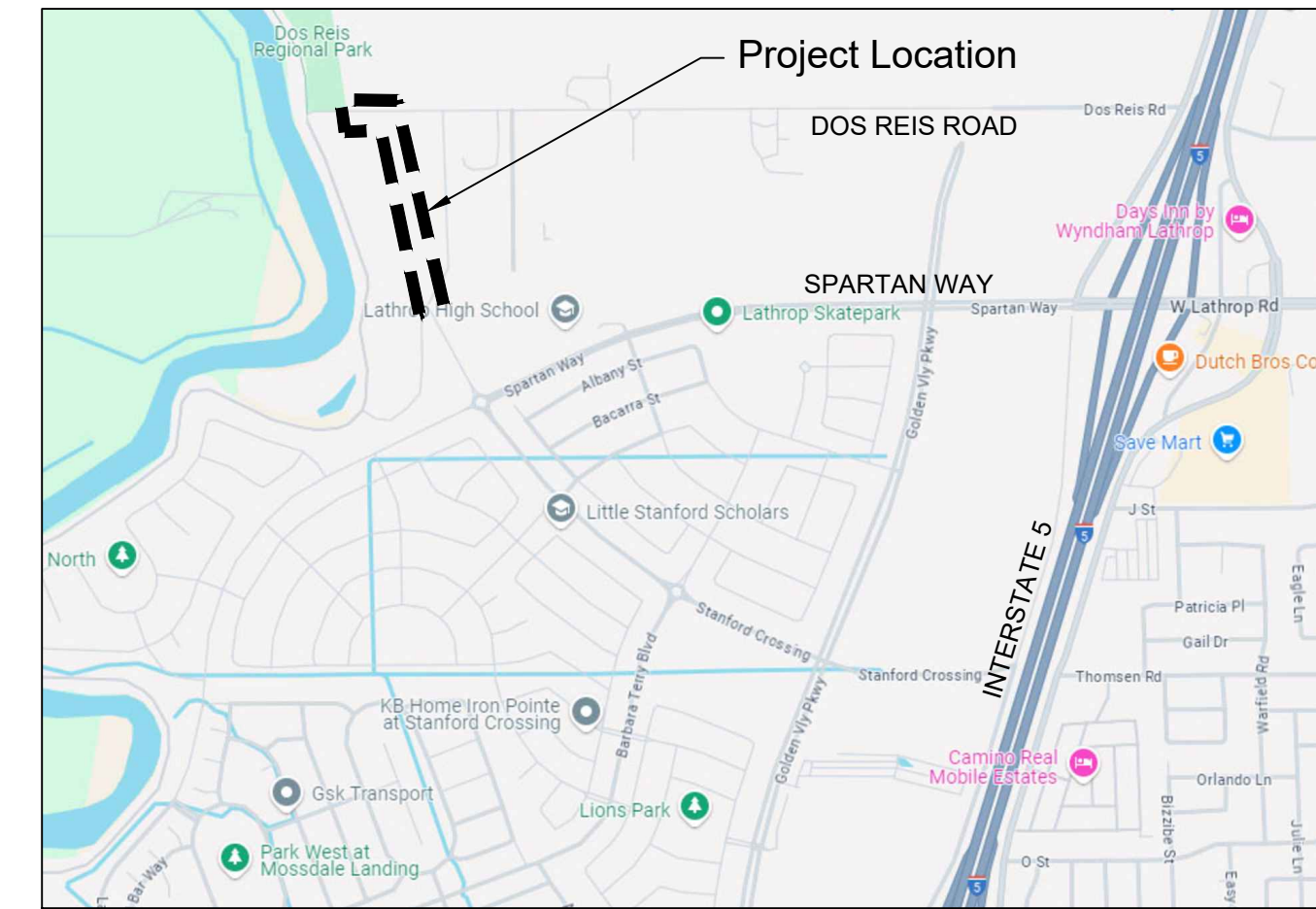
Project:  
**STANFORD CROSSING  
ROAD EXTENSION**  
LATHROP, CA

Revision:  
No. Desc. Date

Date: 12/17/2024  
Drawn: RSH  
Checked: RSH  
Project No.: 24-28  
Scale: none

Sheet:  
**Cover Sheet**  
  
L0.1

VICINITY MAP



ABBREVIATIONS

AB	AGGREGATE BASE OR ANCHOR BOLT	IE	INVERT ELEVATION	REC	RECOMMENDED OR RECOMMENDATION
AC	ASPHALTIC CONCRETE	INT	INTERSECTION	REF	REFERENCE
ACP	ASPHALTIC CONCRETE PAVING/PAVEMENT	INV	INVERT	REM	REMOVE
ADJ	ADJACENT	INV	INVERT	REQ, REC'D	REQUIRED
ALT	ALTERNATE	L	LENGTH	REV	REVISION(S), REVISED
AP	ANGLE POINT	LH	LEFT HAND	RH	RIGHT HAND
APPROX	APPROXIMATE	LP	LOW POINT	ROW	RIGHTOFWAY
BLDG	BUILDING	LT	LEFT	RT	RIGHT
CB	CATCH BASIN	MATL	MATERIAL	S	SLOPE
CF	CUBIC FOOT	MAX	MAXIMUM	SCH	SCHEDULE
CL, CL	CENTERLINE	MED	MEDIUM	SD	STORM DRAIN
CLR	CLEAR	MFR	MANUFACTURE(R)	SE	SOUTHEAST
CONC	CONCRETE	MIN	MINIMUM	SG	SUB-GRADE
CONST	CONSTRUCTION	MISC	MISCELLANEOUS	SHT	SHEET
CONT	CONTINUOUS, CONTINUE	ML	MAINLINE	SIM	SIMILAR
CTR	CENTER	(N)	NEW	SL	SLOPE
DI	DRAIN INLET	N/A	NOT APPLICABLE	SPEC	SPECIFICATION(S)
DIA	DIAMETER	NIC	NOT IN CONTRACT	SQ	SQUARE
DWG	DRAWING	NO	NUMBER	SF	SQUARE FEET
EA	EACH	NTS	NOT TO SCALE	SS	SANITARY SEWER
EJ, EX, JT	EXPANSION JOINT	OC	ON CENTER	STD	STANDARD
ELECT	ELECTRICAL	OD	OUTSIDE DIAMETER	SURF	SURFACE
EP	EDGE OF PAVEMENT	OH	OVERHEAD	SW	SOUTHWEST
EQ	EQUAL	OPP	OPPOSITE	SWCL	SIDEWALK CENTERLINE
EX	EXISTING	OPT	OPTIONAL	SYS	SYSTEM
EXIST	EXISTING	PA, PLTR	PLANTER AREA	TBC	TOP BACK OF CURB
(E)	EXISTING	PC	POINT OF CURVE	TC	TOP OF CURB
FD	FRENCH DRAIN	PERF	PERFORATED	TS	TOP OF STEP
FES	FLARED END SECTION	PERP	PERPENDICULAR	TS	TUBE STEEL
FF	FINISHED FLOOR	PL	PROPERTY LINE	TW	TOP OF WALL
FFE	FINISHED FLOOR ELEVATION	POB	POINT OF BEGINNING	TYP	TYPICAL
FG	FINISHED GRADE	POC	POINT OF CONNECTION	UON	UNLESS OTHERWISE NOTED
FL	FLOW LINE	PRC	POINT OF REVERSE CURVE	VAR	VARIABLES
FS	FINISHED SURFACE	PROP	PROPOSED	W	WATER
FTG	FOOTING	PT	POINT, POINT OF TANGENCY	W/	WITH
FUT	FUTURE	¼PT	QUARTER POINT ON ARC	W/O	WITHOUT
GB	GRADE BREAK	½PT	HALF POINT ON ARC		
GPH	GALLONS PER HOUR	¾PT	THREE-QUARTER POINT ON ARC		
GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH		
GR	GRATE	PUE	PUBLIC UTILITIES EASEMENT		
HP	HIGH POINT	PVC	POLYVINYL CHLORIDE		
ID	INSIDE DIAMETER	RAD	RADIUS		
		REBAR	REINFORCING BAR		

GENERAL NOTES

- The landscape drawings are part of and intended to be complementary to the drawings of the civil engineer and of other disciplines. Prior to start of Work, review all drawings, documents, and reports associated with this project and coordinate the work of the landscape drawings with the work of the other disciplines as necessary to ensure a fully complete and coordinated installation.
- Prior to start of work, thoroughly review all Contract Documents and become thoroughly familiar with the requirements and the intent of these documents including all contract requirements.
- Prior to start of any work, obtain all necessary permits from the City, State and all other agencies having jurisdiction over the work.
- Prior to start of construction and as necessary throughout the progress of the Work, contact the Underground Service Alert with minimum 48 hours notice, and have all underground utilities and facilities marked in the field and verify by pot holing, the types, locations, sizes and/or depth of existing utilities within the work area. In the event existing utilities are discovered to be in conflict with the work required of the Contract Documents, immediately notify the Owner and the affected utility company in the most expeditious means available and later confirm in writing. Determine exact locations of all utilities and facilities and implement appropriate and effective measures to protect them.
- Protect all existing monuments and other survey markers on the project site. Record the location of all monuments and other survey markers prior to the start of work. All such monuments or markers disturbed or destroyed during construction shall be replaced by a licensed surveyor at the Contractor's expense.
- If during the course of any excavation evidence of archaeological resources including but not limited to artifacts and human remains are encountered, immediately stop all work and activities that may damage or destroy such resources and notify the Owner. Do not re-start affected work and activities until the Owner has provided direction to do so.
- All work shall conform to applicable governing codes. At commencement of construction Owner and Contractor shall be responsible to consult with applicable agencies to determine if applicable codes, regulations, or governing ordinances have changed and determine if changes to the plans are required to comply with requirements. Changes to plans for updating due to these changes shall be solely the responsibility of the Owner.
- All traffic controls shall be in conformance with Caltrans Manual of Traffic Controls and these Contract Documents.
- Verify all work described in the Drawings for dimension, grade, extent, and compatibility with existing site conditions. Any discrepancies and unexpected conditions that affect or change the work described in the contract documents shall be brought to the Landscape Architect's attention immediately. Do not proceed with the work in the area of discrepancies until all such discrepancies are resolved. Proceeding with affected work prior to acceptable resolution will be at Contractor's own risk and may require the Contractor to remove and replace work and execute extra work at no additional cost to the Owner.
- Omissions from the Drawings or Specifications or the misdescription of any work, which is manifestly necessary to carry out the intent of the Drawings and Specifications, or which is customarily performed, shall not relieve the Contractor from performing such omitted or described details of the work. Contractor shall perform such work as if fully and completely set forth and described in the drawings and specifications.
- Written dimensions shall take precedence over drawing scale or proportion. Larger scale drawings shall take precedence over small scale drawings.
- Removal and replacement limits of any existing feature shown on the Drawings are for general reference only. Actual limits shall be as required by the new work and shall be verified in the field with Owner.
- RECORD DRAWINGS: Maintain one set of Contract Documents on site for use in documenting current progress of work and all changes. Document progress and changes with red, indelible ink. Make documents available to Landscape Architect for review at all site visits and as requested. Draft all changes in CAD files copy and note changes to specifications on copies of the original specifications using indelible black or red ink as directed. Unless otherwise specified, these shall serve as the Record Documents that must be submitted prior to final payment. The Owner may have other work within this project area being executed under separate contracts by other contractors ("others") concurrently with the execution of work covered by these documents. Contractor shall coordinate work of this contract with work of others as necessary to ensure the proper interface of this work with work of others and by such means, methods, and timing that the work of others is not impeded.

SHEET INDEX

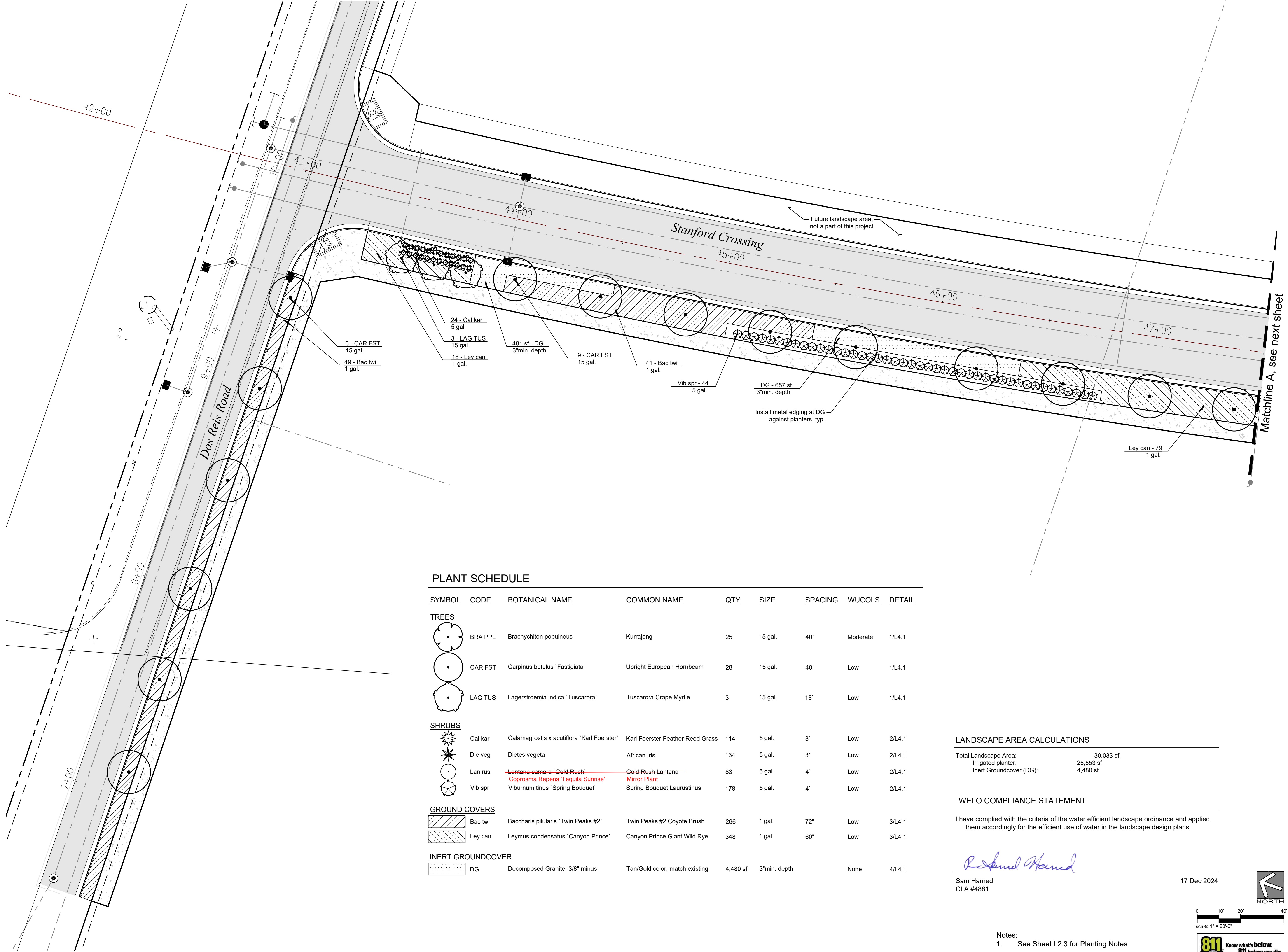
- L1.1 - COVER SHEET
- L2.1 - PLANTING PLAN
- L2.2 - PLANTING PLAN
- L2.3 - PLANTING PLAN
- L3.1 - IRRIGATION PLAN
- L3.2 - IRRIGATION PLAN
- L3.3 - IRRIGATION PLAN
- L4.1 - PLANTING DETAILS
- L5.1 - IRRIGATION DETAILS
- L5.2 - IRRIGATION DETAILS
- L6.1 - WELO NOTES AND CALCULATIONS
- L7.1 - LANDSCAPE SPECIFICATIONS
- L7.2 - LANDSCAPE SPECIFICATIONS

PROJECT INFORMATION

Project Name: Stanford Crossing  
 Project Applicant: Saybrook Funds Advisors, LLC  
 Project Address: Lathrop, CA  
 Total Landscape Area: 25,553 sf  
 Project Type: Public Streetscape  
 Water Supply: Municipal Potable  
 Owner Information:  
 Saybrook Fund Advisors, LLC  
 303 Twin Dolphin Drive  
 Redwood Shores, Ca 94065  
 (650) 632-4522  
 Contact: Jeffrey Wilson



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**PLANT SCHEDULE**

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	SPACING	WUCOLS	DETAIL
<b>TREES</b>								
	BRA PPL	Brachychiton populneus	Kurrajong	25	15 gal.	40'	Moderate	1/L4.1
	CAR FST	Carpinus betulus 'Fastigiata'	Upright European Hornbeam	28	15 gal.	40'	Low	1/L4.1
	LAG TUS	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	3	15 gal.	15'	Low	1/L4.1
<b>SHRUBS</b>								
	Cal kar	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	114	5 gal.	3'	Low	2/L4.1
	Die veg	Dietes vegeta	African Iris	134	5 gal.	3'	Low	2/L4.1
	Lan rus	<del>Lantana camara 'Gold Rush'</del> <del>Coprosma Repens 'Tequila Sunrise'</del>	<del>Gold Rush Lantana</del> <del>Mirror Plant</del>	83	5 gal.	4'	Low	2/L4.1
	Vib spr	Viburnum tinus 'Spring Bouquet'	Spring Bouquet Laurustinus	178	5 gal.	4'	Low	2/L4.1
<b>GROUND COVERS</b>								
	Bac twi	Baccharis pilularis 'Twin Peaks #2'	Twin Peaks #2 Coyote Brush	266	1 gal.	72"	Low	3/L4.1
	Ley can	Leymus condensatus 'Canyon Prince'	Canyon Prince Giant Wild Rye	348	1 gal.	60"	Low	3/L4.1
<b>INERT GROUNDCOVER</b>								
	DG	Decomposed Granite, 3/8" minus	Tan/Gold color, match existing	4,480 sf	3" min. depth		None	4/L4.1

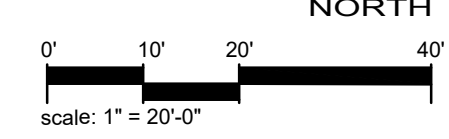
**LANDSCAPE AREA CALCULATIONS**

Total Landscape Area:	30,033 sf.
Irrigated planter:	25,553 sf
Inert Groundcover (DG):	4,480 sf

**WELO COMPLIANCE STATEMENT**

I have complied with the criteria of the water efficient landscape ordinance and applied them accordingly for the efficient use of water in the landscape design plans.

*Sam Harned*  
 Sam Harned  
 CLA #4881  
 17 Dec 2024



**Notes:**  
 1. See Sheet L2.3 for Planting Notes.



Sam Harned  
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 Architecture  
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 209-380-7376  
 www.harnedia.com

Seal:

Prepared for:  
 Saybrook Fund Advisors,  
 LLC

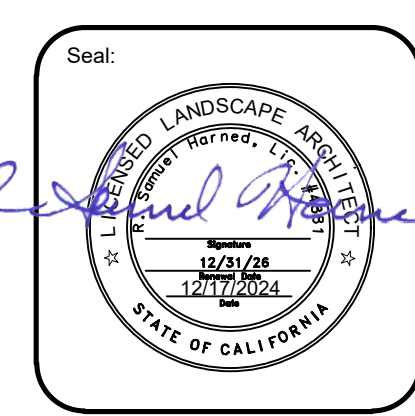
Project:  
**STANFORD CROSSING  
 ROAD EXTENSION**  
 LATHROP, CA

Revision:  
 No. Desc. Date

Date: 12/17/2024  
 Drawn: RSH  
 Checked: RSH  
 Project No.: 24-28  
 Scale: 1" = 20'-0"

Sheet:  
**Planting Plan**  
 Sta. 43+00 -  
 47+50  
 L2.1

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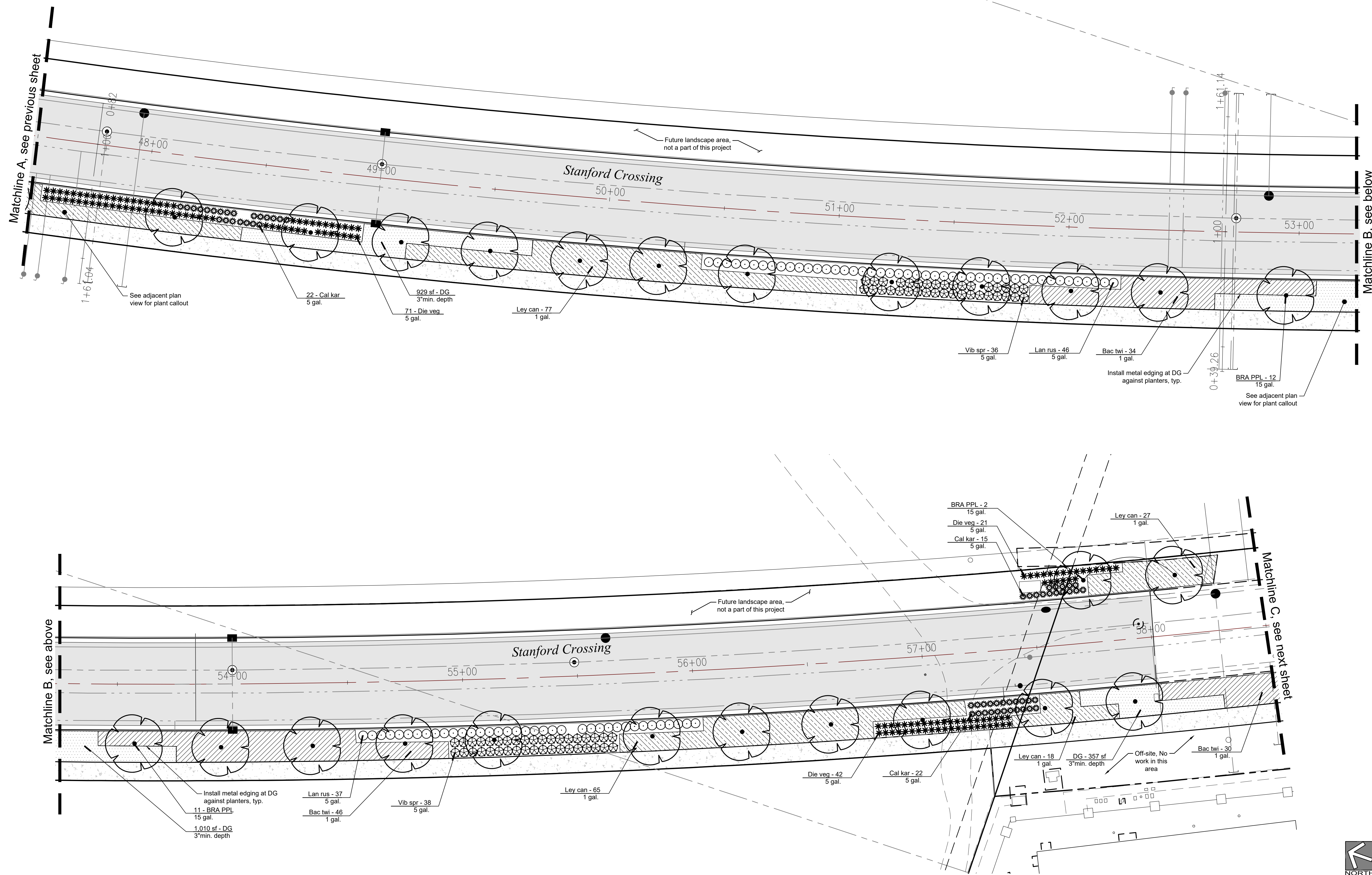
Prepared for:  
Saybrook Fund Advisors, LLC

Project:  
**STANFORD CROSSING ROAD EXTENSION**  
LATHROP, CA

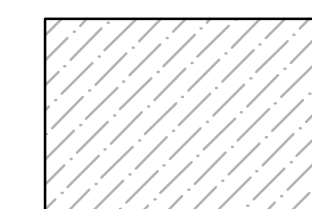
Revision No.	Desc.	Date

Date: 12/17/2024  
Drawn: RSH  
Checked: RSH  
Project No.: 24-28  
Scale: 1" = 20'-0"

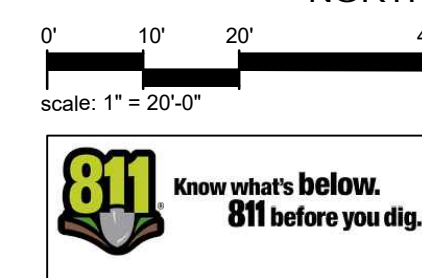
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Sta. 47+50 - 58+50  
**L2.2**

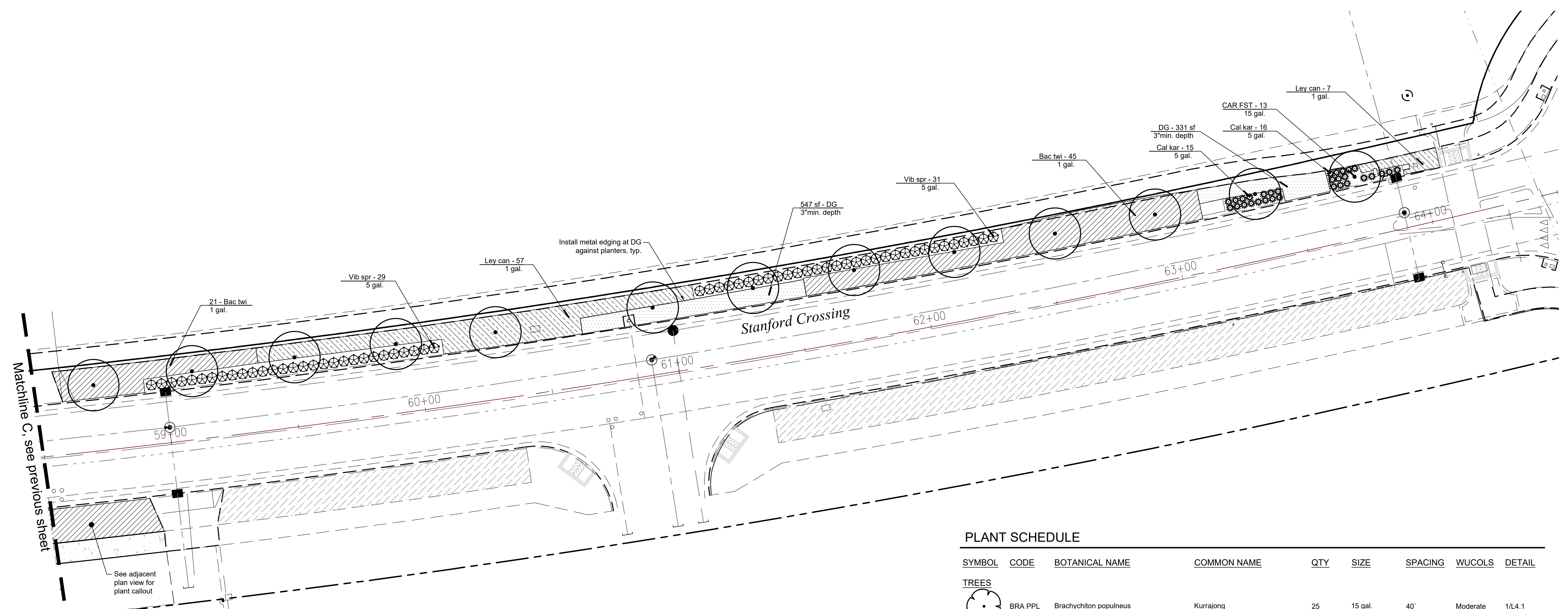


Notes:  
1. See Sheet L2.3 for Planting Notes and Plant Schedule.



Existing planter, to remain. No landscape work in this area.



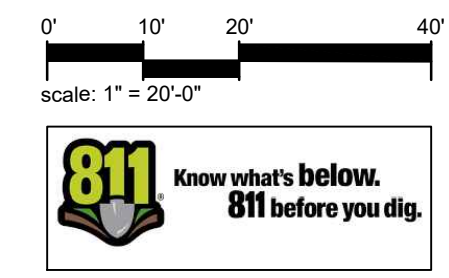
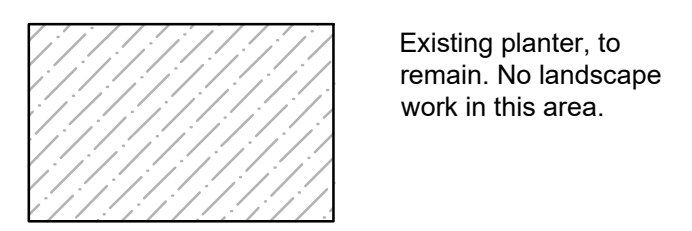


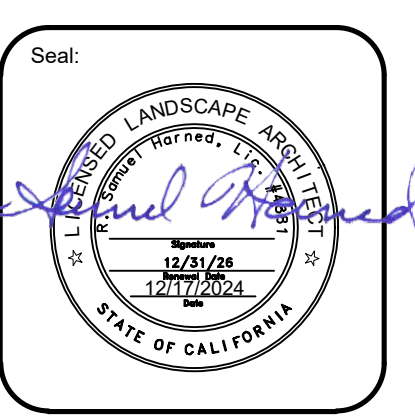
**PLANTING NOTES**

- Examine site conditions and locate utilities prior to start of work. Report any conflicts to Owner or Landscape Architect prior to starting work. Start of work implies acceptance of site conditions.
- Confirm all plant quantities. The quantity of symbols on the plan shall have priority over the quantity provided in the legend.
- Contractor is responsible for maintaining current condition of existing landscape to remain. Any damage that occurs to landscape after start of work shall be repaired or replaced at no additional expense to the Owner.
- The contractor shall be responsible for the purchasing of all material to provide a complete installation per the intent of the contract documents.
- The contractor is responsible for the protection of all material until the project has been completely turned over to the owner.
- Landscape Architect reserves the right to review plant material prior to planting. Plant material may be rejected at any time due to condition, form, or damage, before or after planting. Installed and then rejected material shall be replaced by the contractor at contractor expense.
- All plant material to be nursery grown in a climate similar to that of the project site. All plant material shall:
  - Be vigorous and of normal habit of growth.
  - Be pest and disease free, including insects, insect eggs and larvae.
  - Be free of girdling roots, sun scald, abrasions, disease
- Plants shall equal or exceed the standards as outlined by the American Standards for Nursery Stock and to applicable California Agriculture Code.
- The landscape contractor shall, prior to installation of any plant material, provide for a Soil Agronomy Report (per WELO) from an approved soils laboratory that shall include recommendations for amending and preparing soil. Provide report to landscape architect for review and further direction regarding soil amendments and preparation. Soil analysis shall include: soil texture, infiltration rate, soil pH, total soluble salts, sodium, and percent organic matter.
- Prepare the soil by removing all rock and debris larger than 1" from planting areas; legally dispose of materials removed from this process.
- Amend the soil per the recommendations of the Soil Agronomy Report, including any additional amendments specified by the landscape architect, prior to the installation of plant material. Provided below is a list of minimum amendments that shall be incorporated into all planting pits and broadcast into soil to depth of 12", by means of a roto-tiller or equal, per 1000 square feet. This list is provided for Bid purposes and shall be augmented as recommended by the Soils Agronomy Report.
  - 4 cyds organic amendment. Cow manure or nitrogen-treated sawdust or ground bark humus
  - 15 lbs. soil sulfur
  - 15 lbs. 15-15-15 fertilizer
- Notify landscape architect if site soil has been lime treated. Additional testing may be required to determine extent of lime treatment, compaction, or other condition that may be deleterious to healthy plant growth.
- Provide weed control prior to planting. Thoroughly irrigate the site to promote germination of weed seeds that may be in the soil. Once germination has taken place spray the site with approved herbicide, (Round-Up or equal) at the rate specified by the manufacturer. Reapply as needed.
- Planting pits for trees shall be excavated per the details provided in these plans. Planting pit backfill mix for all trees and shrubs shall consist of the following:
  - 5 parts 'on-site' soil
  - 4 parts organic amendment (same as described above)
  - 1 lb./yd. of mix 12-12-12 commercial fertilizer
  - 2 lbs./cu. yd. of mix Iron Sulfate
  - 10 lbs./cu. yd. of mix Agricultural Gypsum
- Fertilizer tablets (20-10-5) to be placed in all planting pits in the following quantities per plant container size:
  - 1 gallon 1 tablet
  - 5 gallon 3 tablets
  - 15 gallon 9 tablets
  - 24" box 9 tablets
  - 36" box 15 tablets
- Plant establishment period of ninety (90) days shall commence upon notice of Substantial Completion. Maintain all plant material throughout duration of plant establishment period to a point accepted by the Landscape Architect or Owner's Representative. See Planting Specifications for additional information.
- Trees to be planted a min. of 5'-0" from edge of paving or walls, U.O.N.
  - Tree planting shall conform to minimum distances away from lights or other utilities, as published in the local jurisdictions standards or guidelines.
- Groundcover shall be installed continuous under all shrub masses, U.O.N.
- Install vines with runners securely attached to the adjacent wall or trellis. Remove nursery stakes prior to completion of plant establishment period, unless otherwise directed by owner or landscape architect.
- Prior to placing mulch, apply pre-emergent weed control, (Ronstar, or approved equal) in the amounts specified by the manufacturer.
- Uniformly place a minimum 3" depth of recycled, organic mulch (3/4" - 1-1/2" chip size) over all shrub areas. Do not install mulch at turf areas. Color: Brown (un-dyed).
  - "Gorilla Hair" is not acceptable unless specifically noted.
  - Do not install bark mulch in areas of inundation (e.g. - bio-swale or basin). Place min. 3" layer of crushed aggregate mulch (3") in these areas in place of the bark mulch. Transition back to bark mulch at top of slope, U.O.N. Submit sample for approval.

**PLANT SCHEDULE**

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	SPACING	WUCOLS	DETAIL
<b>TREES</b>								
	BRA PPL	Brachycthon populineus	Kurrajong	25	15 gal.	40'	Moderate	1/L4.1
	CAR FST	Carpinus betulus 'Fastigiata'	Upright European Hornbeam	28	15 gal.	40'	Low	1/L4.1
	LAG TUS	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	3	15 gal.	15'	Low	1/L4.1
<b>SHRUBS</b>								
	Cal kar	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	114	5 gal.	3'	Low	2/L4.1
	Die veg	Diets vegeta	African Iris	134	5 gal.	3'	Low	2/L4.1
	Lan rus	<del>Lantana camara 'Gold Rush'</del> Coprosmia Repens 'Tequila Sunrise'	<del>Gold Rush Lantana</del> Mirror Plant	83	5 gal.	4'	Low	2/L4.1
	Vib spr	Viburnum tinus 'Spring Bouquet'	Spring Bouquet Laurustinus	178	5 gal.	4'	Low	2/L4.1
<b>GROUND COVERS</b>								
	Bac twi	Baccharis pilularis 'Twin Peaks #2'	Twin Peaks #2 Coyote Brush	266	1 gal.	72"	Low	3/L4.1
	Ley can	Leymus condensatus 'Canyon Prince'	Canyon Prince Giant Wild Rye	348	1 gal.	60"	Low	3/L4.1
<b>INERT GROUND COVER</b>								
	DG	Decomposed Granite, 3/8" minus	Tan/Gold color, match existing	4,480 sf	3" min. depth		None	4/L4.1





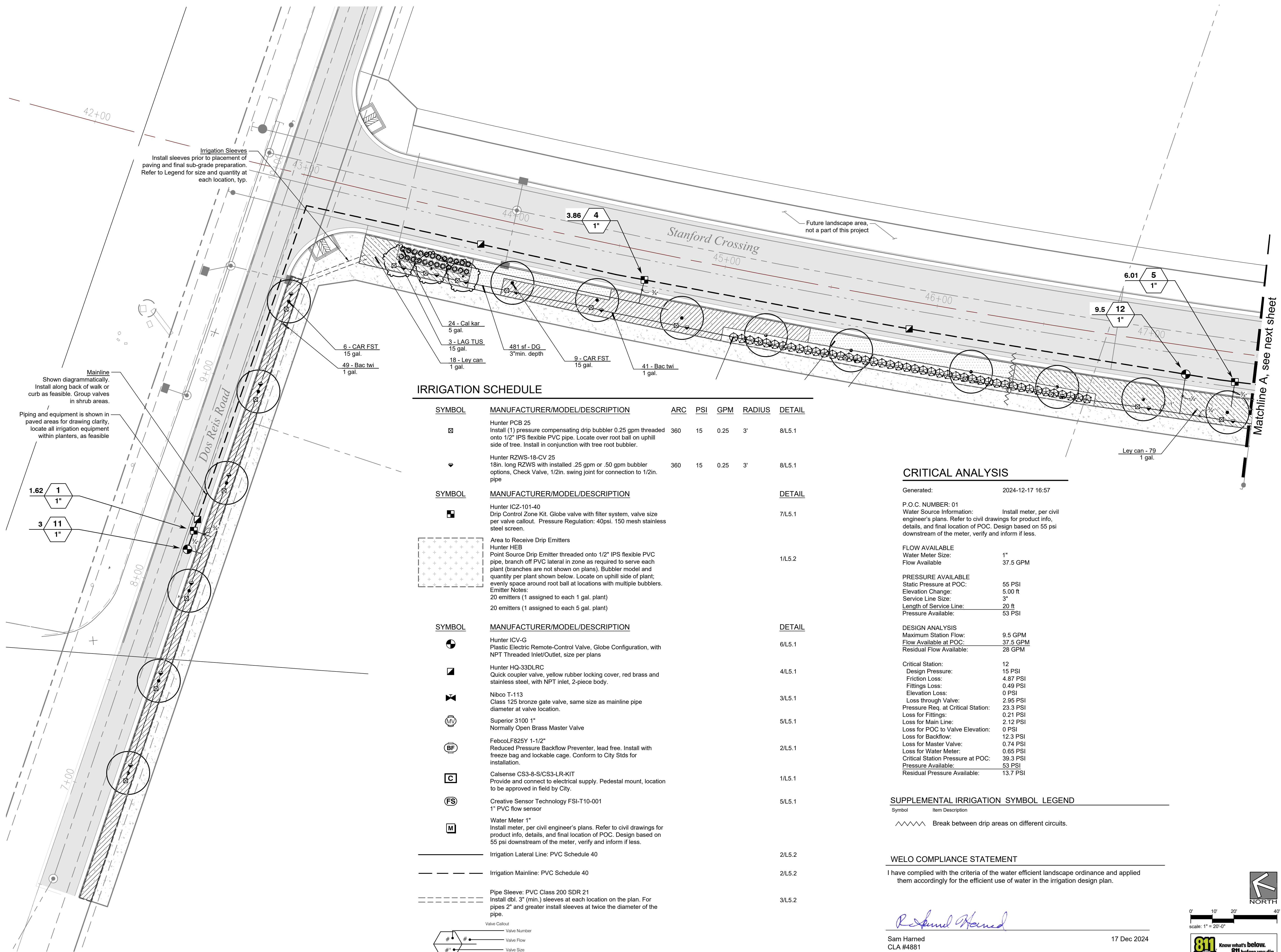
Prepared for:  
 Saybrook Fund Advisors, LLC

Project:  
**STANFORD CROSSING ROAD EXTENSION**  
 LATHROP, CA

Revision:  
 No. Desc. Date

Date: 12/17/2024  
 Drawn: RSH  
 Checked: RSH  
 Project No.: 24-28  
 Scale: 1" = 20'-0"

Sheet:  
**Irrigation Plan**  
 Sta. 43+00 - 47+50  
**L3.1**



**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
☒	Hunter PCB 25 Install (1) pressure compensating drip bubbler 0.25 gpm threaded onto 1/2" IPS flexible PVC pipe. Locate over root ball on uphill side of tree. Install in conjunction with tree root bubbler.	360	15	0.25	3'	8/L5.1
▼	Hunter RZWS-18-CV 25 18in. long RZWS with installed .25 gpm or .50 gpm bubbler options, Check Valve, 1/2in. swing joint for connection to 1/2in. pipe	360	15	0.25	3'	8/L5.1
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION					DETAIL
☐	Hunter ICZ-101-40 Drip Control Zone Kit. Globe valve with filter system, valve size per valve callout. Pressure Regulation: 40psi. 150 mesh stainless steel screen.					7/L5.1
+	Area to Receive Drip Emitters Hunter HEB Point Source Drip Emitter threaded onto 1/2" IPS flexible PVC pipe, branch off PVC lateral in zone as required to serve each plant (branches are not shown on plans). Bubbler model and quantity per plant shown below. Locate on uphill side of plant; evenly space around root ball at locations with multiple bubblers. Emitter Notes: 20 emitters (1 assigned to each 1 gal. plant) 20 emitters (1 assigned to each 5 gal. plant)					1/L5.2
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION					DETAIL
⊙	Hunter ICV-G Plastic Electric Remote-Control Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, size per plans					6/L5.1
⊠	Hunter HQ-33DLRC Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with NPT inlet, 2-piece body.					4/L5.1
⊗	Nibco T-113 Class 125 bronze gate valve, same size as mainline pipe diameter at valve location.					3/L5.1
⊕	Superior 3100 1" Normally Open Brass Master Valve					5/L5.1
⊖	FebcoLF825Y 1-1/2" Reduced Pressure Backflow Preventer, lead free. Install with freeze bag and lockable cage. Conform to City Stds for installation.					2/L5.1
⊓	Calsense CS3-8-S/CS3-LR-KIT Provide and connect to electrical supply. Pedestal mount, location to be approved in field by City.					1/L5.1
⊔	Creative Sensor Technology FSI-T10-001 1" PVC flow sensor					5/L5.1
⊕	Water Meter 1" Install meter, per civil engineer's plans. Refer to civil drawings for product info, details, and final location of POC. Design based on 55 psi downstream of the meter, verify and inform if less.					
—	Irrigation Lateral Line: PVC Schedule 40					2/L5.2
- - -	Irrigation Mainline: PVC Schedule 40					2/L5.2
- - - - -	Pipe Sleeve: PVC Class 200 SDR 21 Install dbl. 3" (min.) sleeves at each location on the plan. For pipes 2" and greater install sleeves at twice the diameter of the pipe.					3/L5.2
⊕	Valve Callout Valve Number Valve Flow Valve Size					

**CRITICAL ANALYSIS**

Generated: 2024-12-17 16:57  
 P.O.C. NUMBER: 01  
 Water Source Information: Install meter, per civil engineer's plans. Refer to civil drawings for product info, details, and final location of POC. Design based on 55 psi downstream of the meter, verify and inform if less.  
 FLOW AVAILABLE  
 Water Meter Size: 1"  
 Flow Available: 37.5 GPM  
 PRESSURE AVAILABLE  
 Static Pressure at POC: 55 PSI  
 Elevation Change: 5.00 ft  
 Service Line Size: 3"  
 Length of Service Line: 20 ft  
 Pressure Available: 53 PSI  
 DESIGN ANALYSIS  
 Maximum Station Flow: 9.5 GPM  
 Flow Available at POC: 37.5 GPM  
 Residual Flow Available: 28 GPM  
 Critical Station:  
 Design Pressure: 12 PSI  
 Friction Loss: 4.87 PSI  
 Fittings Loss: 0.49 PSI  
 Elevation Loss: 0 PSI  
 Loss through Valve: 2.95 PSI  
 Pressure Req. at Critical Station: 23.3 PSI  
 Loss for Fittings: 0.21 PSI  
 Loss for Main Line: 2.12 PSI  
 Loss for POC to Valve Elevation: 0 PSI  
 Loss for Backflow: 12.3 PSI  
 Loss for Master Valve: 0.74 PSI  
 Loss for Water Meter: 0.65 PSI  
 Critical Station Pressure at POC: 39.3 PSI  
 Pressure Available: 53 PSI  
 Residual Pressure Available: 13.7 PSI

**SUPPLEMENTAL IRRIGATION SYMBOL LEGEND**

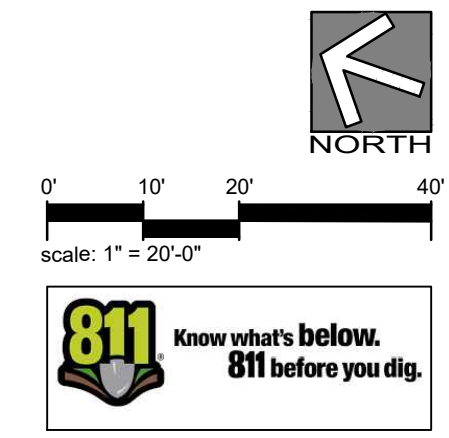
Symbol Item Description  
 ~~~~~ Break between drip areas on different circuits.

WELO COMPLIANCE STATEMENT

I have complied with the criteria of the water efficient landscape ordinance and applied them accordingly for the efficient use of water in the irrigation design plan.

Richard Harned

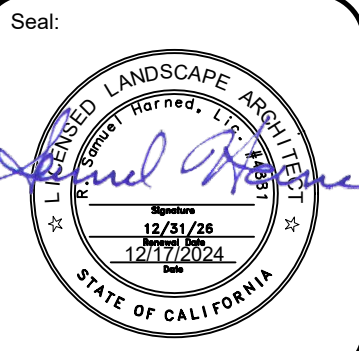
Sam Harned
 CLA #4881
 17 Dec 2024



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Prepared for:
Saybrook Fund Advisors,
LLC

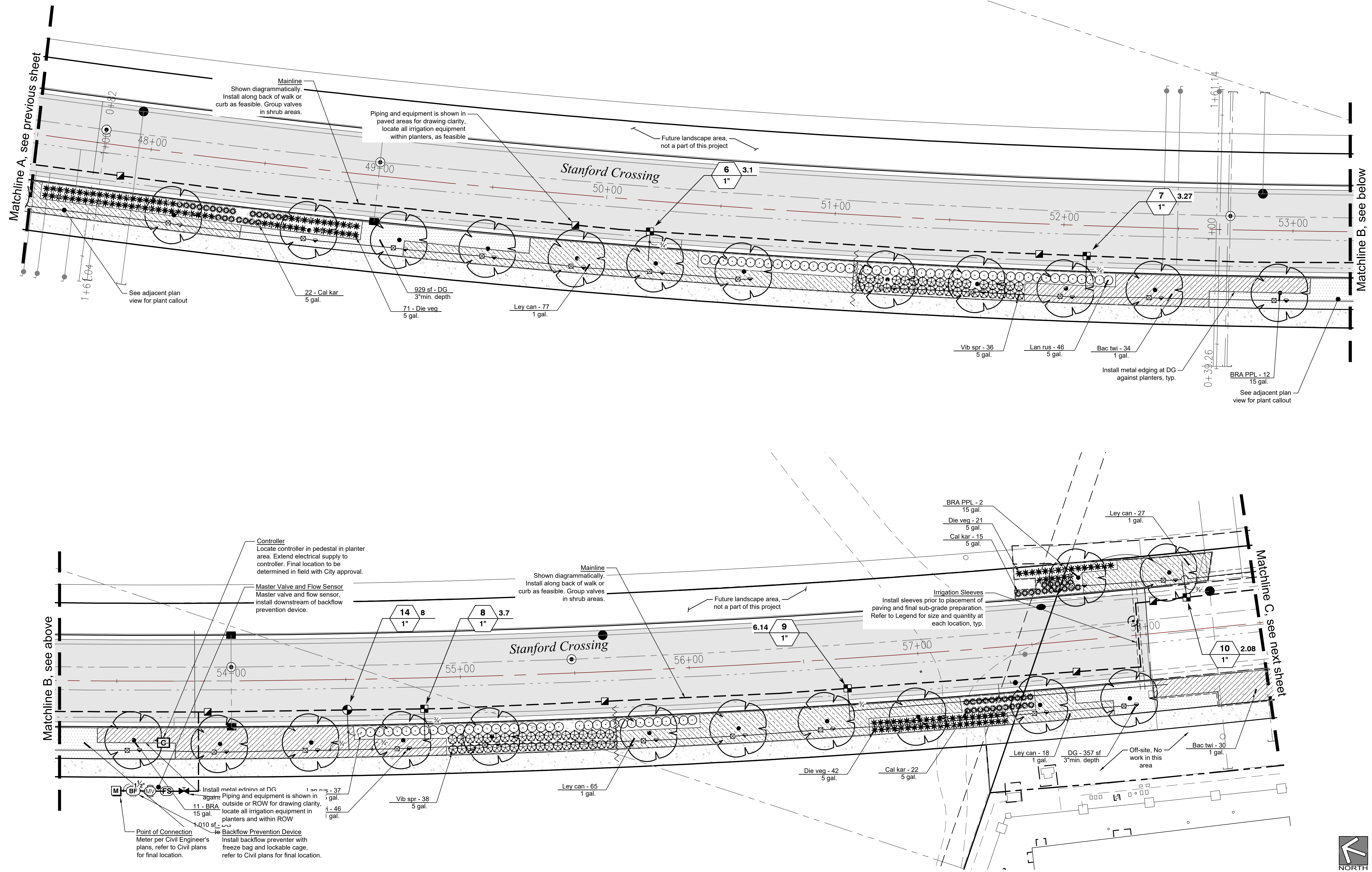
Project:
**STANFORD CROSSING
ROAD EXTENSION**
LATHROP, CA

Revision:
No. Desc. Date

Date: 12/17/2024
Drawn: RSH
Checked: RSH
Project No.: 24-28
Scale: 1" = 20'-0"

Sheet:
Irrigation Plan
Sta. 47+50 -
58+50
L3.2

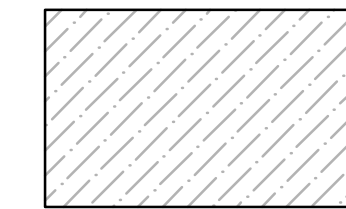
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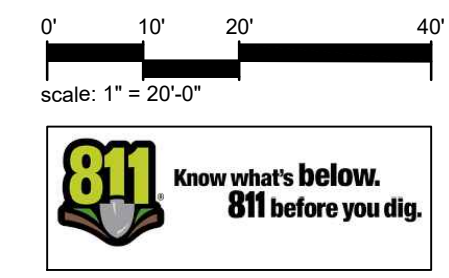
SUPPLEMENTAL IRRIGATION SYMBOL LEGEND

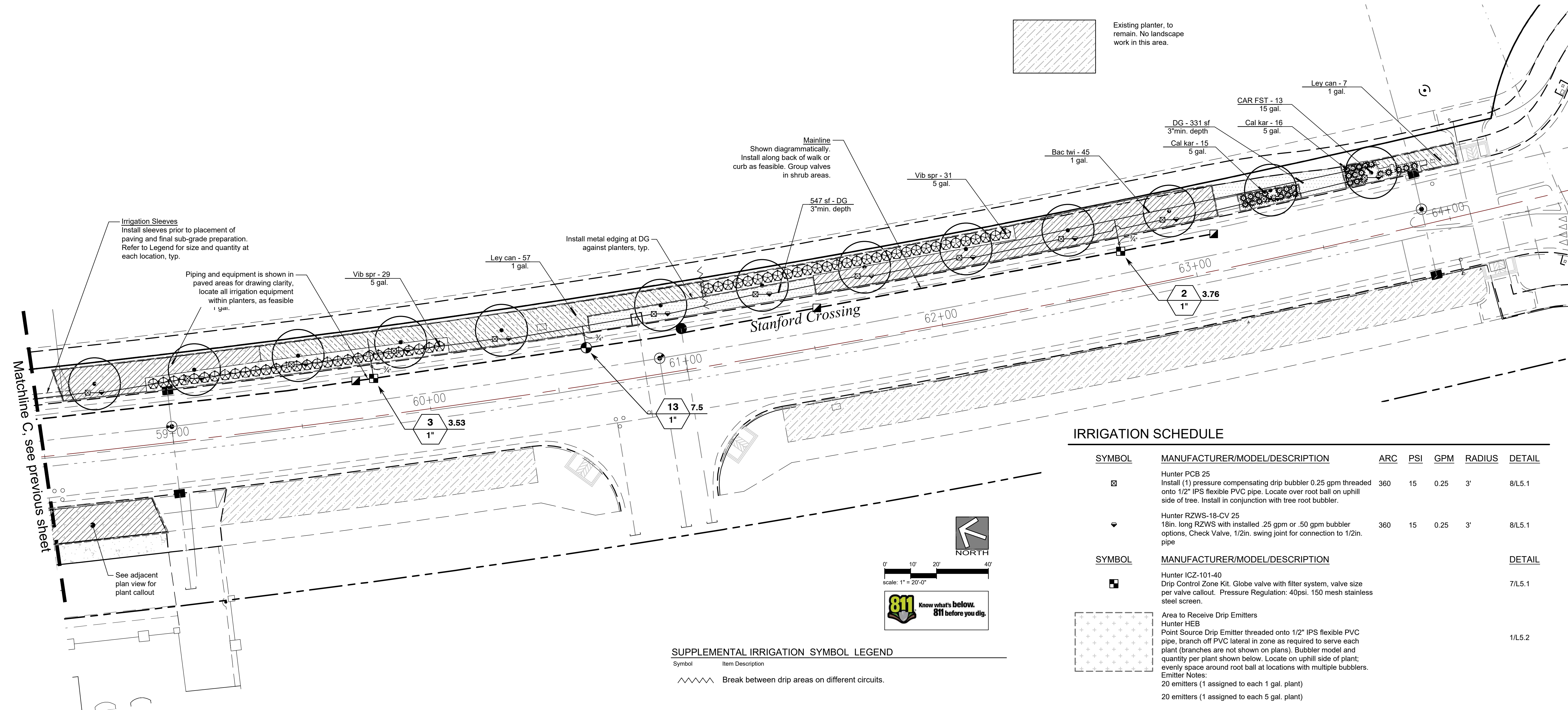
| Symbol | Item Description |
|--------|---|
| | Break between drip areas on different circuits. |

Notes:
1. See Sheet L3.3 for Irrigation Notes and Irrigation Schedule.



Existing planter, to remain. No landscape work in this area.





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Irrigation Sleeves
 Install sleeves prior to placement of paving and final sub-grade preparation. Refer to Legend for size and quantity at each location, typ.

Piping and equipment is shown in paved areas for drawing clarity, locate all irrigation equipment within planters, as feasible 1 gal.

Vib spr - 29
 5 gal.

Ley can - 57
 1 gal.

Install metal edging at DG against planters, typ.

Mainline
 Shown diagrammatically. Install along back of walk or curb as feasible. Group valves in shrub areas.

Vib spr - 31
 5 gal.

Bac twi - 45
 1 gal.

Cal kar - 15
 5 gal.

Cal kar - 16
 5 gal.

Ley can - 7
 1 gal.

CAR FST - 13
 15 gal.

DG - 331 sf
 3 min. depth

547 sf - DG
 3 min. depth

63+00

2 3.76
 1"

62+00

61+00

13 7.5
 1"

60+00

3 3.53
 1"

59+00

See adjacent plan view for plant callout

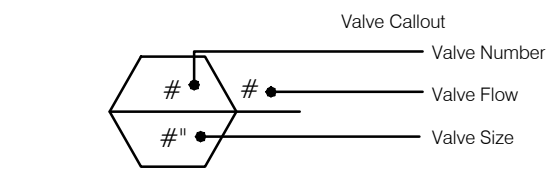
Matchline C, see previous sheet

SUPPLEMENTAL IRRIGATION SYMBOL LEGEND

Symbol Item Description
 Break between drip areas on different circuits.

IRRIGATION SCHEDULE

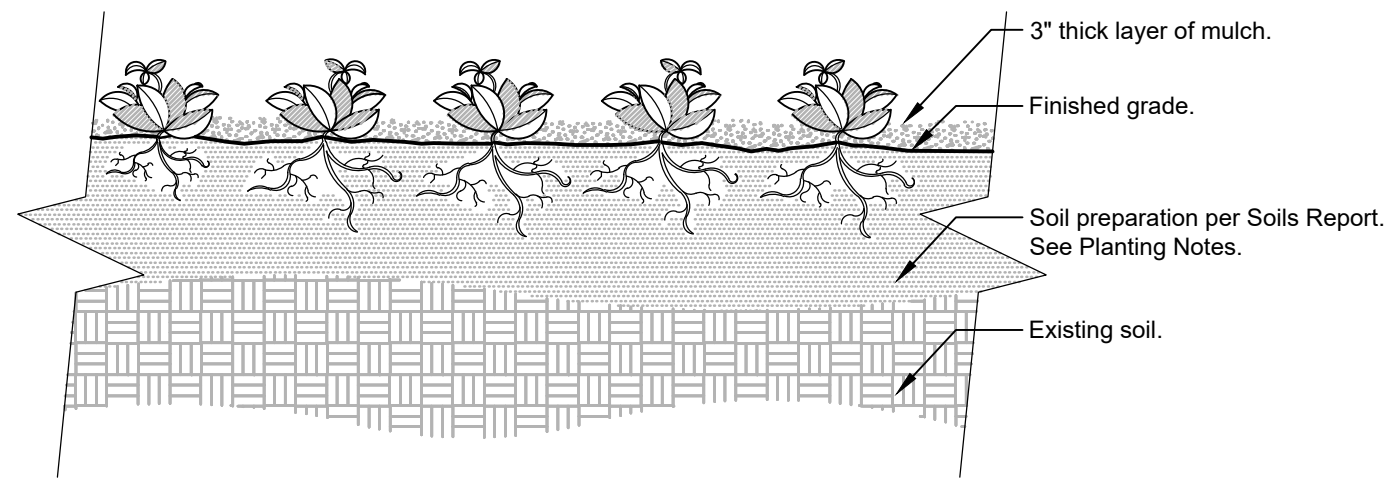
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | ARC | PSI | GPM | RADIUS | DETAIL |
|--------|--|-----|-----|------|--------|--------|
| | Hunter PCB 25
Install (1) pressure compensating drip bubbler 0.25 gpm threaded onto 1/2" IPS flexible PVC pipe. Locate over root ball on uphill side of tree. Install in conjunction with tree root bubbler. | 360 | 15 | 0.25 | 3' | 8/L5.1 |
| | Hunter RZWS-18-CV 25
18in. long RZWS with installed .25 gpm or .50 gpm bubbler options. Check Valve, 1/2in. swing joint for connection to 1/2in. pipe | 360 | 15 | 0.25 | 3' | 8/L5.1 |
| | Hunter ICZ-101-40
Drip Control Zone Kit. Globe valve with filter system, valve size per valve callout. Pressure Regulation: 40psi. 150 mesh stainless steel screen. | | | | | 7/L5.1 |
| | Hunter HEB
Point Source Drip Emitter threaded onto 1/2" IPS flexible PVC pipe, branch off PVC lateral in zone as required to serve each plant (branches are not shown on plans). Bubbler model and quantity per plant shown below. Locate on uphill side of plant; evenly space around root ball at locations with multiple bubblers. | | | | | 1/L5.2 |
| | Hunter HEB
20 emitters (1 assigned to each 1 gal. plant)
20 emitters (1 assigned to each 5 gal. plant) | | | | | |
| | Hunter ICV-G
Plastic Electric Remote-Control Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, size per plans | | | | | 6/L5.1 |
| | Hunter HQ-33DLRC
Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with NPT inlet, 2-piece body. | | | | | 4/L5.1 |
| | Nibco T-113
Class 125 bronze gate valve, same size as mainline pipe diameter at valve location. | | | | | 3/L5.1 |
| | Superior 3100 1"
Normally Open Brass Master Valve | | | | | 5/L5.1 |
| | Febco LF825V 1-1/2"
Reduced Pressure Backflow Preventer, lead free. Install with freeze bag and lockable cage. Conform to City Stds for installation. | | | | | 2/L5.1 |
| | Calsense CS3-8-S/CS3-LR-KIT
Provide and connect to electrical supply. Pedestal mount, location to be approved in field by City. | | | | | 1/L5.1 |
| | Creative Sensor Technology FSI-T10-001
1" PVC flow sensor | | | | | 5/L5.1 |
| | Water Meter 1"
Install meter, per civil engineer's plans. Refer to civil drawings for product info, details, and final location of POC. Design based on 55 psi downstream of the meter, verify and inform if less. | | | | | |
| | Irrigation Lateral Line: PVC Schedule 40 | | | | | 2/L5.2 |
| | Irrigation Mainline: PVC Schedule 40 | | | | | 2/L5.2 |
| | Pipe Sleeve: PVC Class 200 SDR 21
Install dbl. 3" (min.) sleeves at each location on the plan. For pipes 2" and greater install sleeves at twice the diameter of the pipe. | | | | | 3/L5.2 |



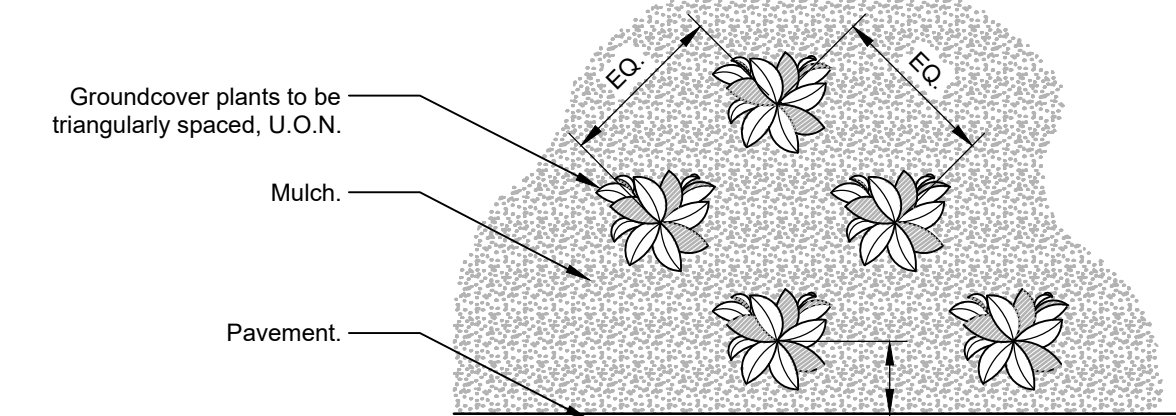
IRRIGATION NOTES

- Contractor shall become familiar with the drawings, specifications, and site conditions prior to beginning work. Should conflicting information be found in these documents or between these documents and site conditions, notify the Landscape Architect before proceeding with the work in question.
- All existing utilities, water lines, and fire hydrants shall remain connected and in full continuous operation unless specifically directed otherwise.
- Irrigation design is based on a minimum 55 psi and maximum 70 psi static water pressure at the point of connection after the meter. Verify prior to ordering materials or starting work. Notify the Landscape Architect if water pressure differs from pressure on which the design is based. Variation from design pressure may require changes and additions to the equipment specifications.
 - Booster Pump: If verified static pressure is less than minimum required design pressure, provide a booster pump as appropriate to yield the required minimum pressure based on anticipated maximum and minimum flows required for system to operate within water window requirements.
 - Pressure Regulator: If verified static pressure is more than maximum design pressure, provide a pressure regulator as appropriate to yield the required pressure based on anticipated maximum and minimum flows required for system to operate within water window requirements.
- Irrigation plan is diagrammatic. Actual routing of pipe and location of equipment shall be determined based on field conditions and as directed by the Landscape Architect. Install pipe and equipment in landscape areas wherever possible unless specifically noted otherwise. Stake layout of mainline and primary laterals for field review and approval prior to trenching. Field adjust existing irrigation system as necessary.
- Pipe Sizing:
 - Minimum pipe size shall be 3/4".
 - Unlabeled pipe segments shall be equal to the size of the segment immediately upstream.
 - In making adjustments to irrigation zone layouts Contractor shall be responsible to determine pipe sizes as required to deliver water pressure required for each outlet device considering flow rate, elevation changes, length of run, and other factors affecting pressure loss. Maximum flows in various pipe sizes shall not exceed the following guidelines. Flows may need to be significantly less than the maximums stated below to off-set other factors affecting pressure loss:

| | | |
|--------|--------|--------------|
| 5.3.1. | 3/4" | up to 8 gpm. |
| 5.3.2. | 1" | 8-12 gpm. |
| 5.3.3. | 1-1/4" | 12-22 gpm. |
| 5.3.4. | 1-1/2" | 22-30 gpm. |
| 5.3.5. | 2" | 30-50 gpm. |
- Mainline pipe sizes shall not be changed without written approval of the Landscape Architect.
- Lateral line pipe runs of lengths greater than the typical distance between outlet devices shall not be made without written approval of the Landscape Architect.
- Do not install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Notify the Landscape Architect of all such conditions immediately upon discovery. In the event this notification is not provided, the Contractor shall assume full responsibility for all revisions necessary in response to field conditions with no additional compensation.
- Controller(s):
 - Locate as directed. Extend electrical service to controllers and dedicate one breaker of proper size for each controller. Provide one additional duplex outlet at each controller location.
 - Electrical service to controllers shall be completed by a licensed electrical contractor in accordance with all applicable codes.
- Sleeves:
 - All pipe under existing and proposed paving shall be installed in sleeves.
 - Sleeves are shown for contractor's convenience. Contractor shall be responsible to coordinate irrigation sleeve locations and installation with other trades.
 - Extend all sleeves 18 inches beyond paving, cap and clearly mark by approved means to facilitate recovery.
 - Install sleeves to accommodate future paving where indicated or as may be needed.
- Spray Heads and Rotors:
 - Install perpendicular to grade unless otherwise noted in plans.
- Drip Emitters:
 - Install drip supply lines minimum 3" below grade.
 - Located emitters 3"-6" from main trunk or stem.
 - Include bug-guard and galvanized stake(s) for each emitter.
- Contractor to flush entire system and adjust all delivery devices and assemblies for complete coverage and reduced over-spray, prior to project completion.
- An irrigation audit shall be completed by a Certified Landscape Irrigation Auditor in conformance with the Jurisdictional Water Efficient Landscape Ordinance (WELO or MWELO). The audit shall be provided to the jurisdictional agency for review and approval.



SECTION VIEW



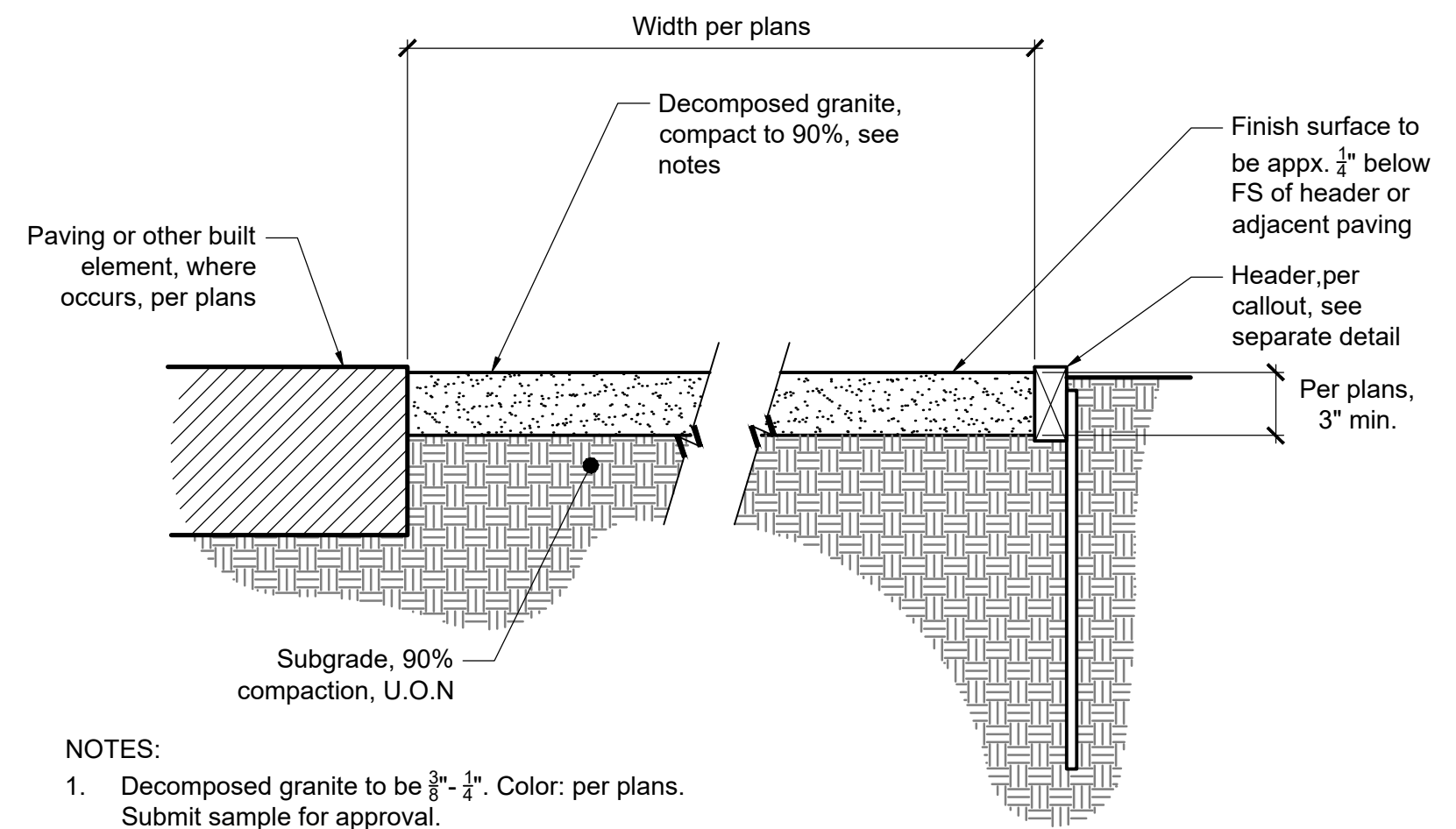
PLAN

- Notes:
- 1- See planting legend for groundcover species, size, and spacing dimension.
 - 2- Small roots ($\frac{1}{4}$ " or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting.
 - 3- Settle soil around root ball of each groundcover prior to mulching.

3 GROUNDCOVER PLANTING

NTS

329301-12

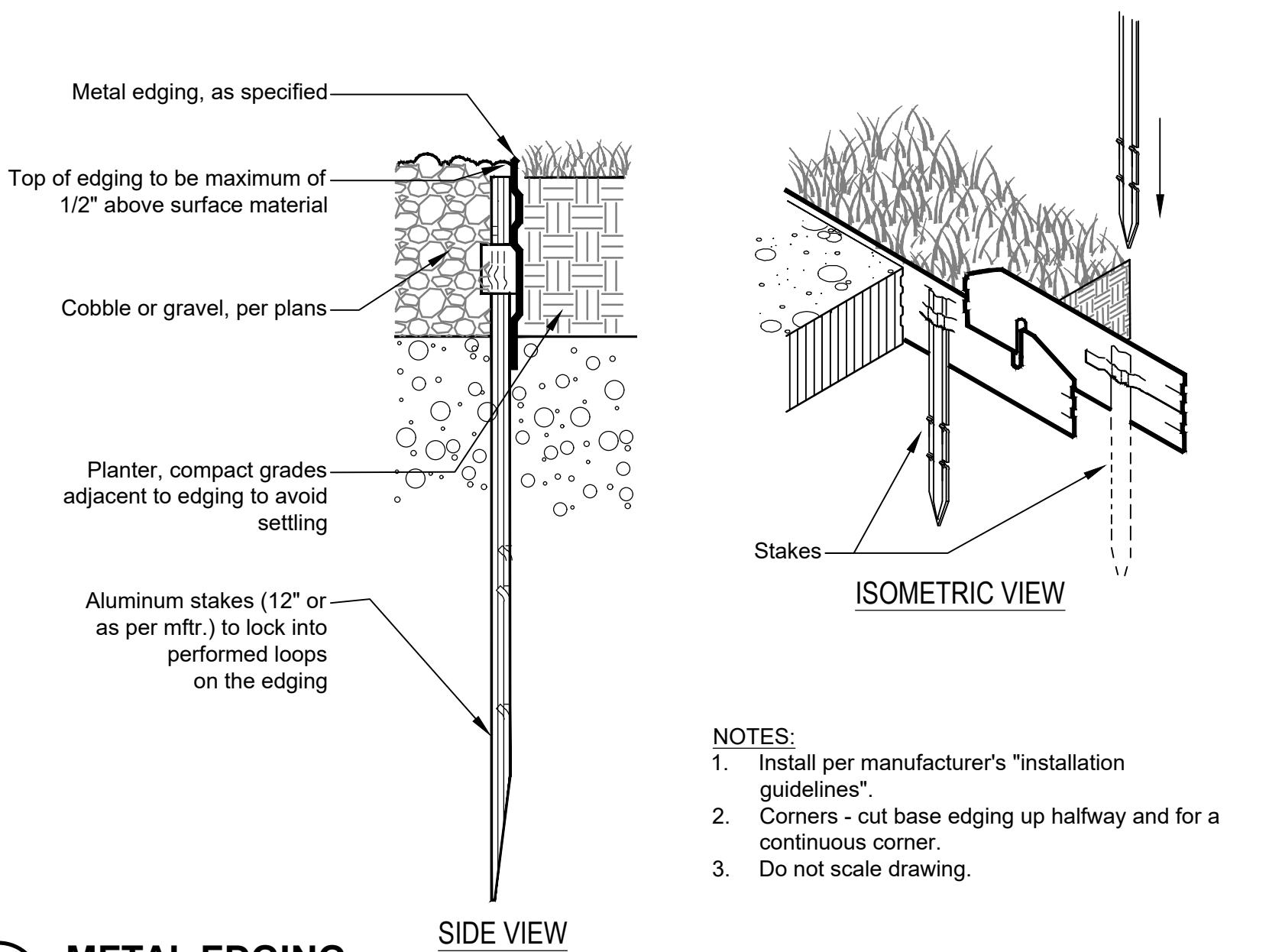


- NOTES:
1. Decomposed granite to be $\frac{3}{8}$ "- $\frac{1}{2}$ ". Color: per plans. Submit sample for approval.
 2. Compaction rates provided are per ASTM D1557. Conform to compaction specified in soils report, if one is prepared for this project.

4 DECOMPOSED GRANITE (DG) PAVING

1 1/2" = 1'-0"

321516-04

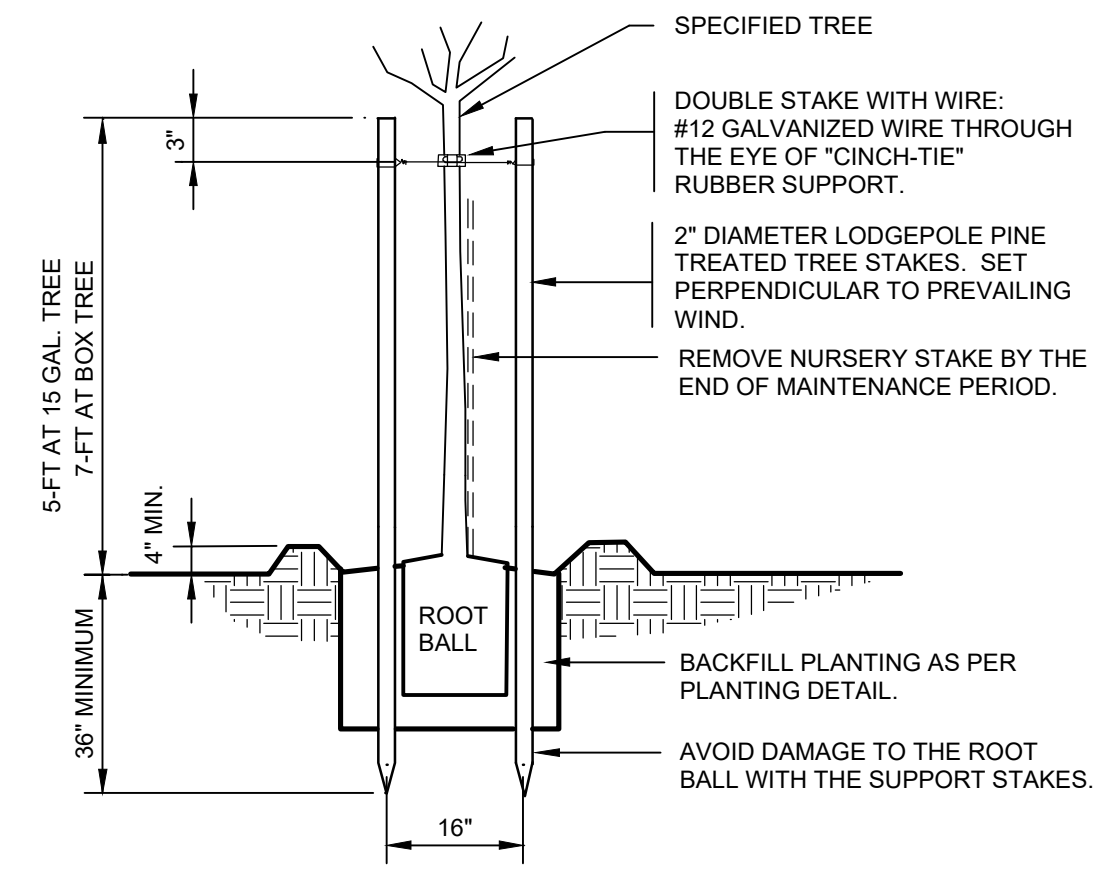


- NOTES:
1. Install per manufacturer's "installation guidelines".
 2. Corners - cut base edging up halfway and for a continuous corner.
 3. Do not scale drawing.

5 METAL EDGING

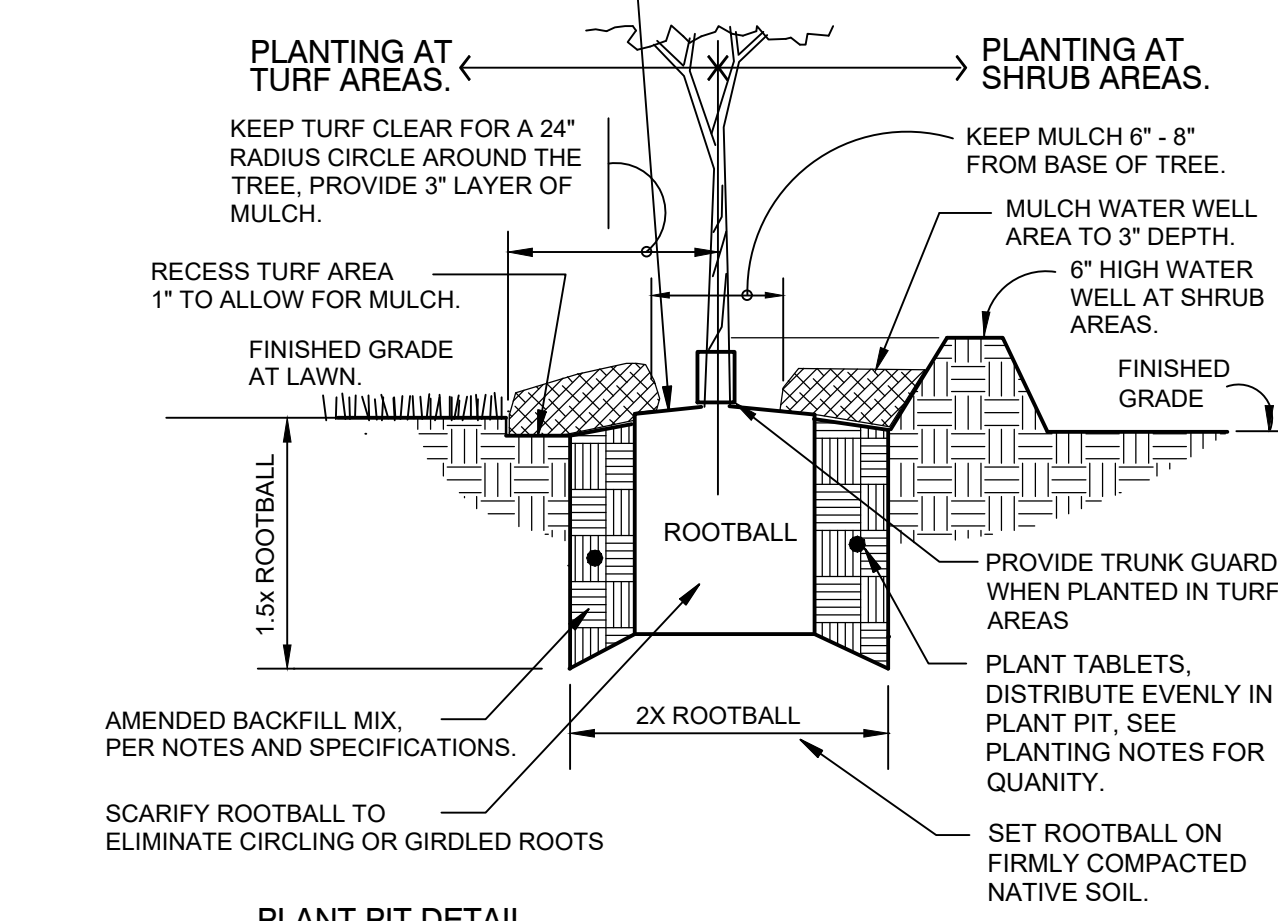
3/4" = 1'-0"

329413.23-01



STAKING DETAIL

SET ROOTBALL CROWN 1 1/2" HIGHER THAN THE SURROUNDING FINISHED GRADE. SLOPE BACKFILL AWAY FROM ROOTBALL FOR POSITIVE DRAINAGE.

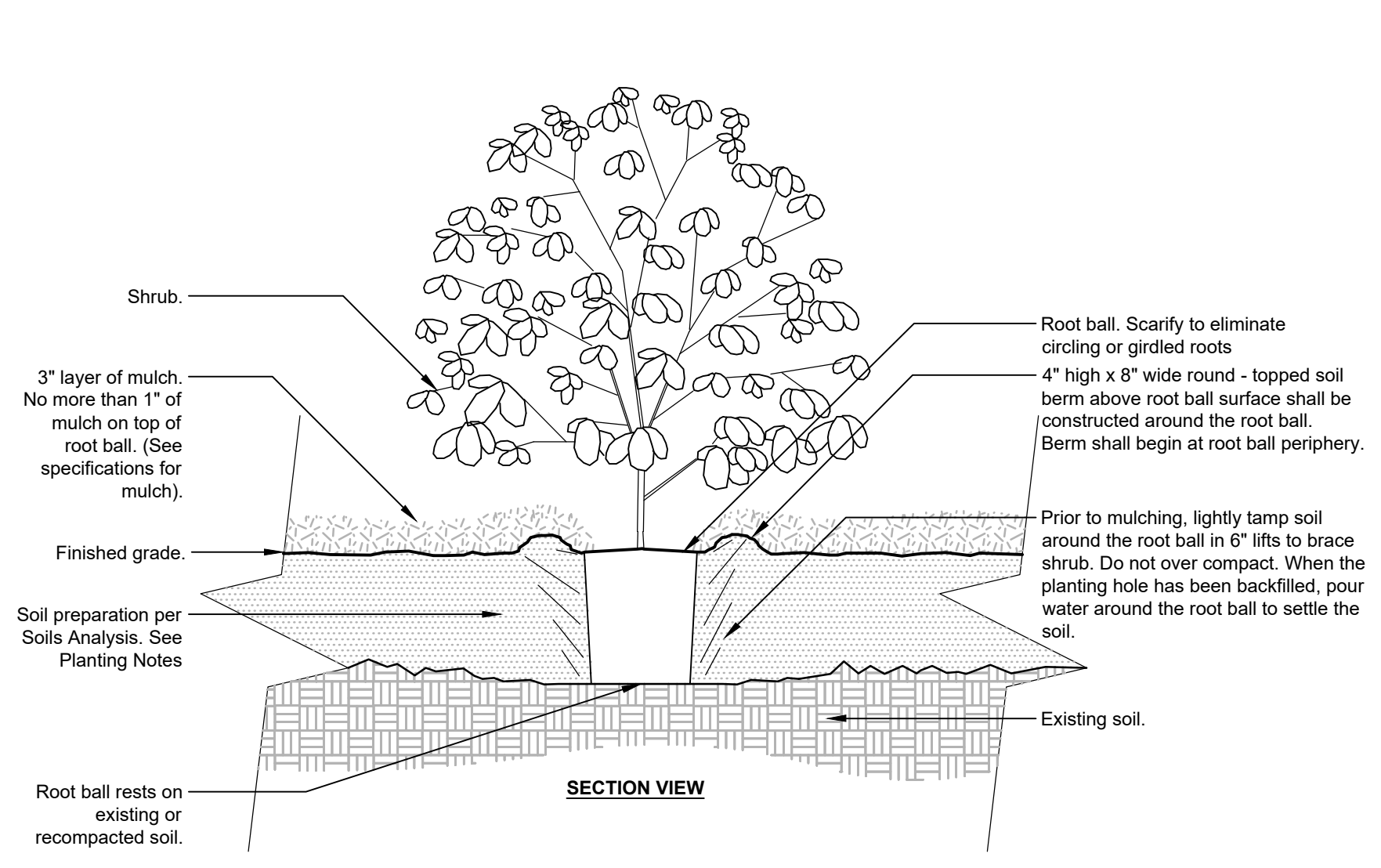


PLANT PIT DETAIL

1 TREE PLANTING

1" = 1'-0"

329301-13

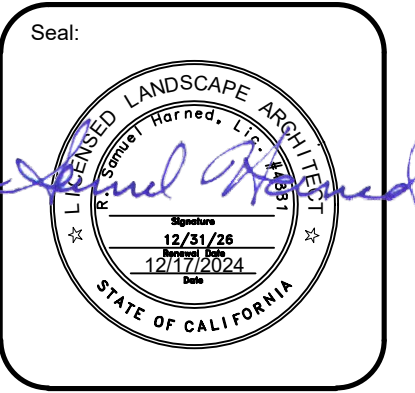


SECTION VIEW

2 SHRUB PLANTING

NTS

329301-11



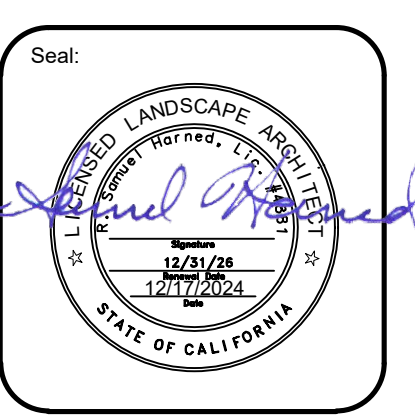
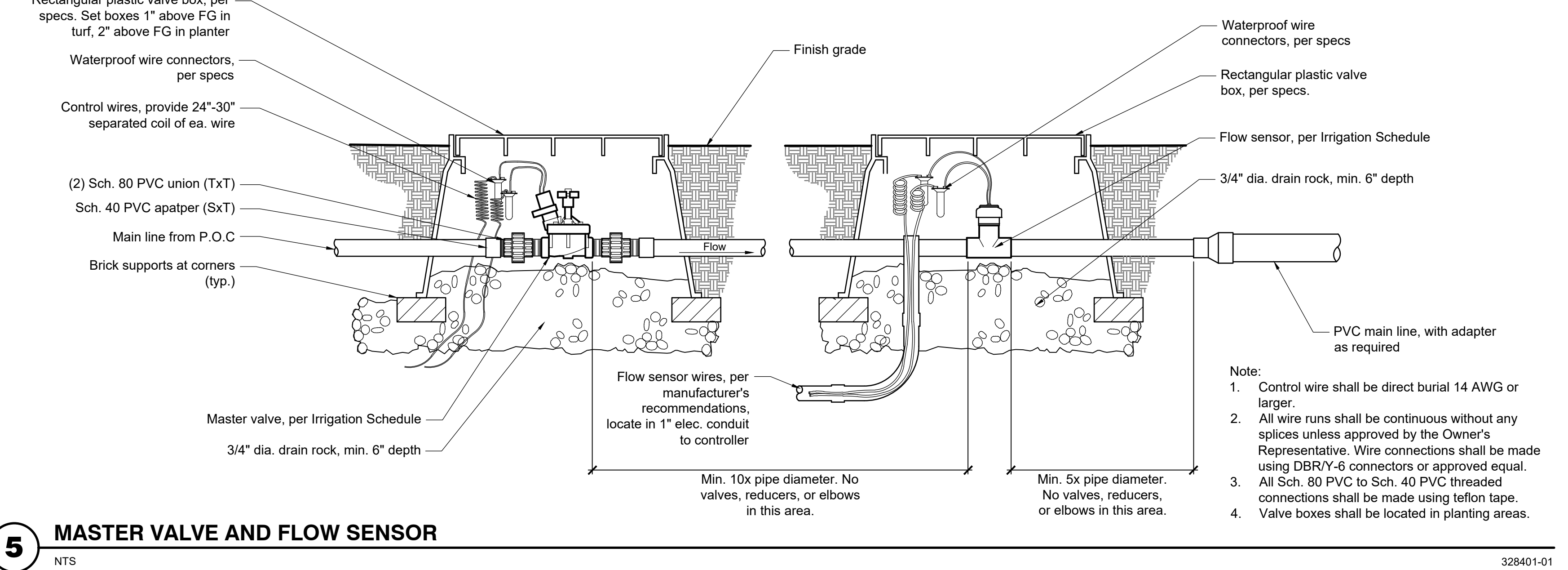
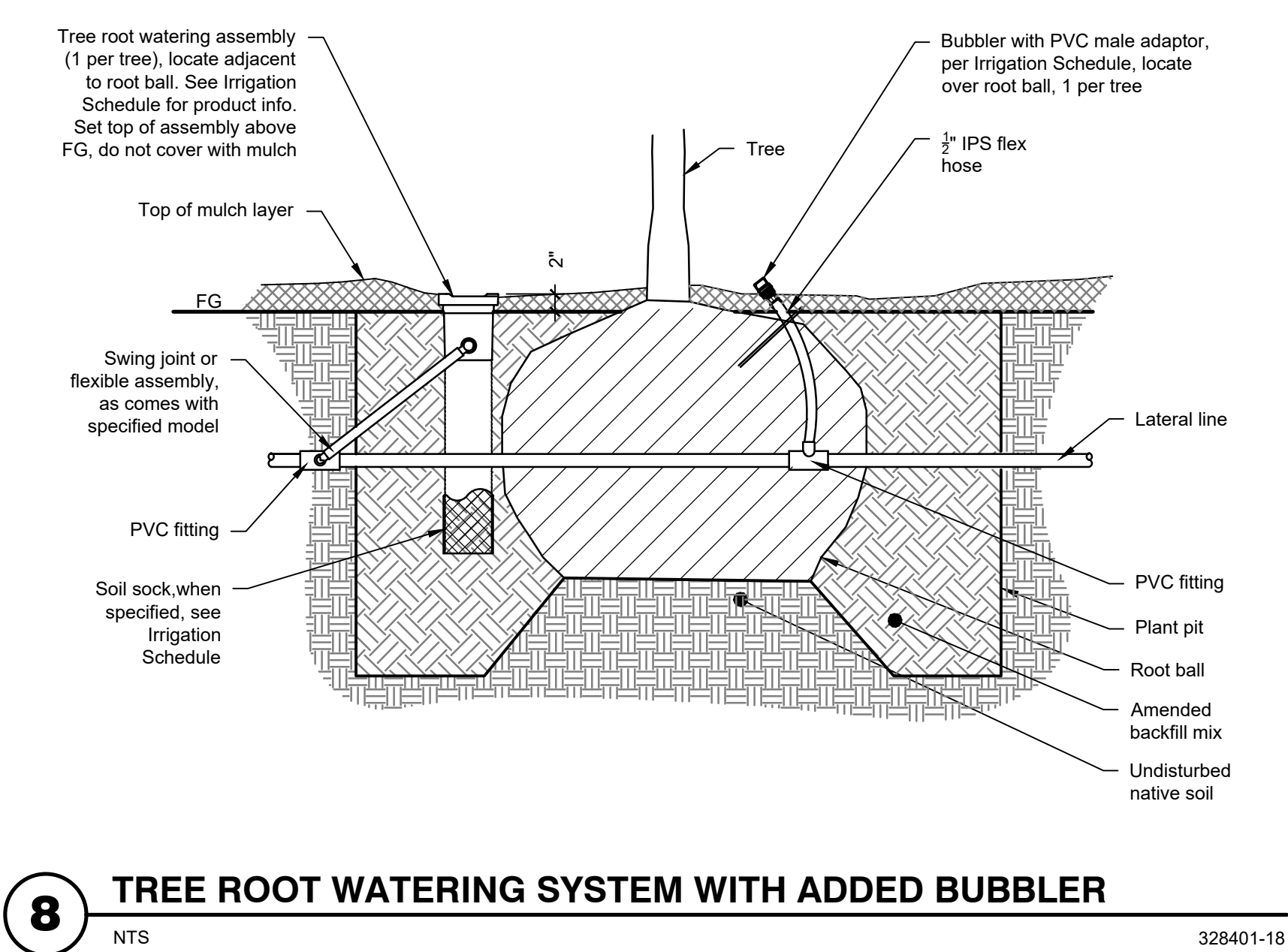
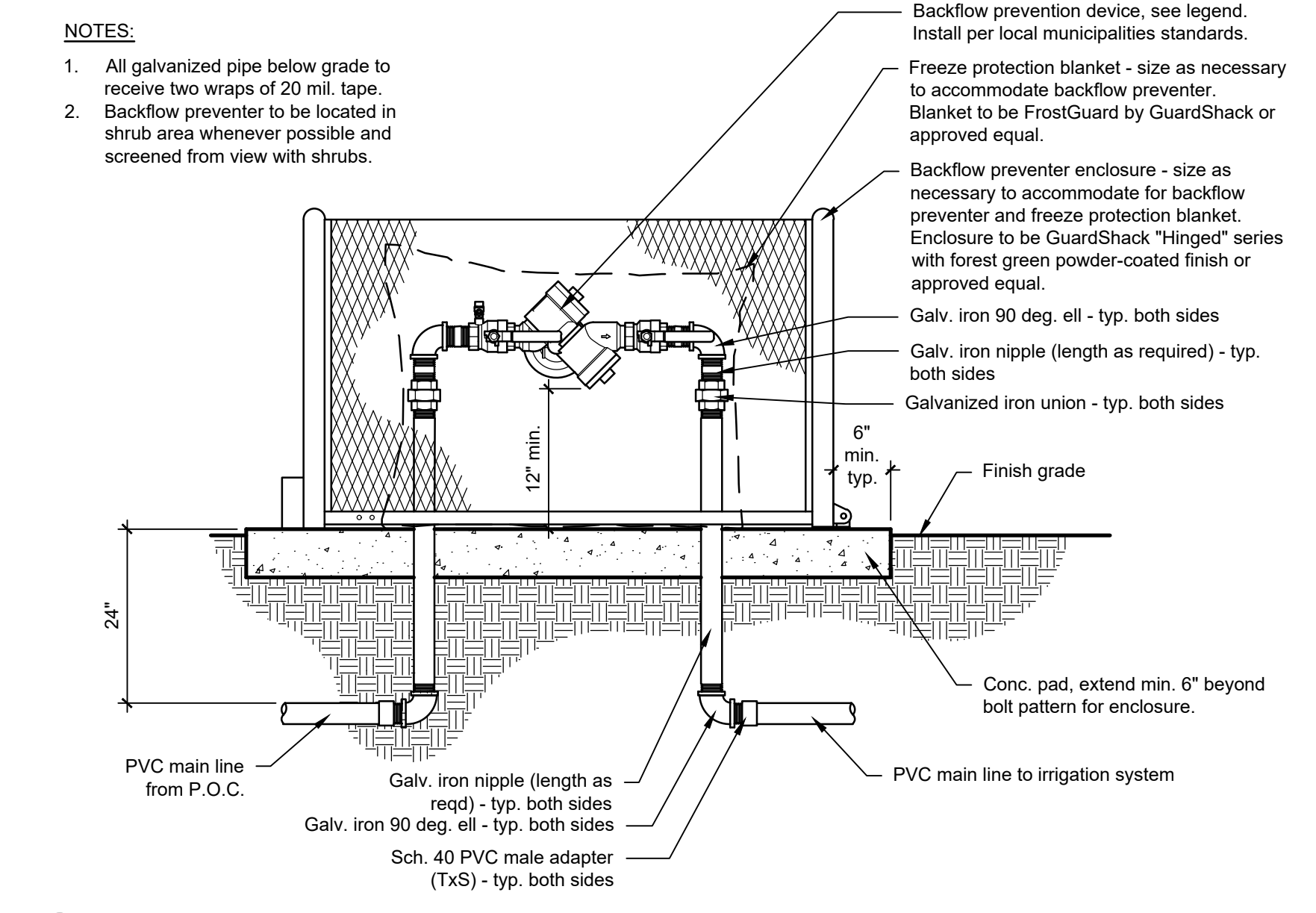
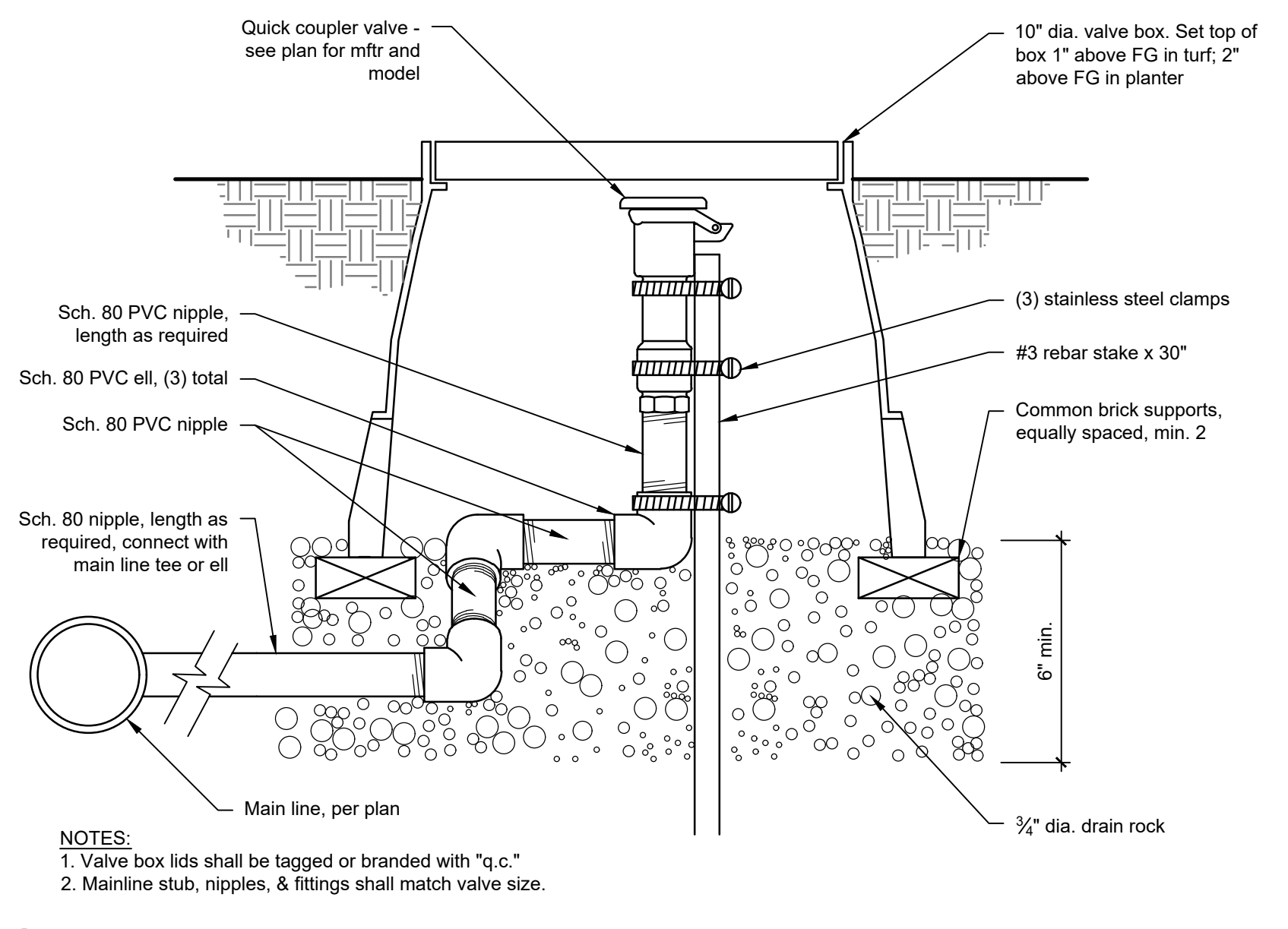
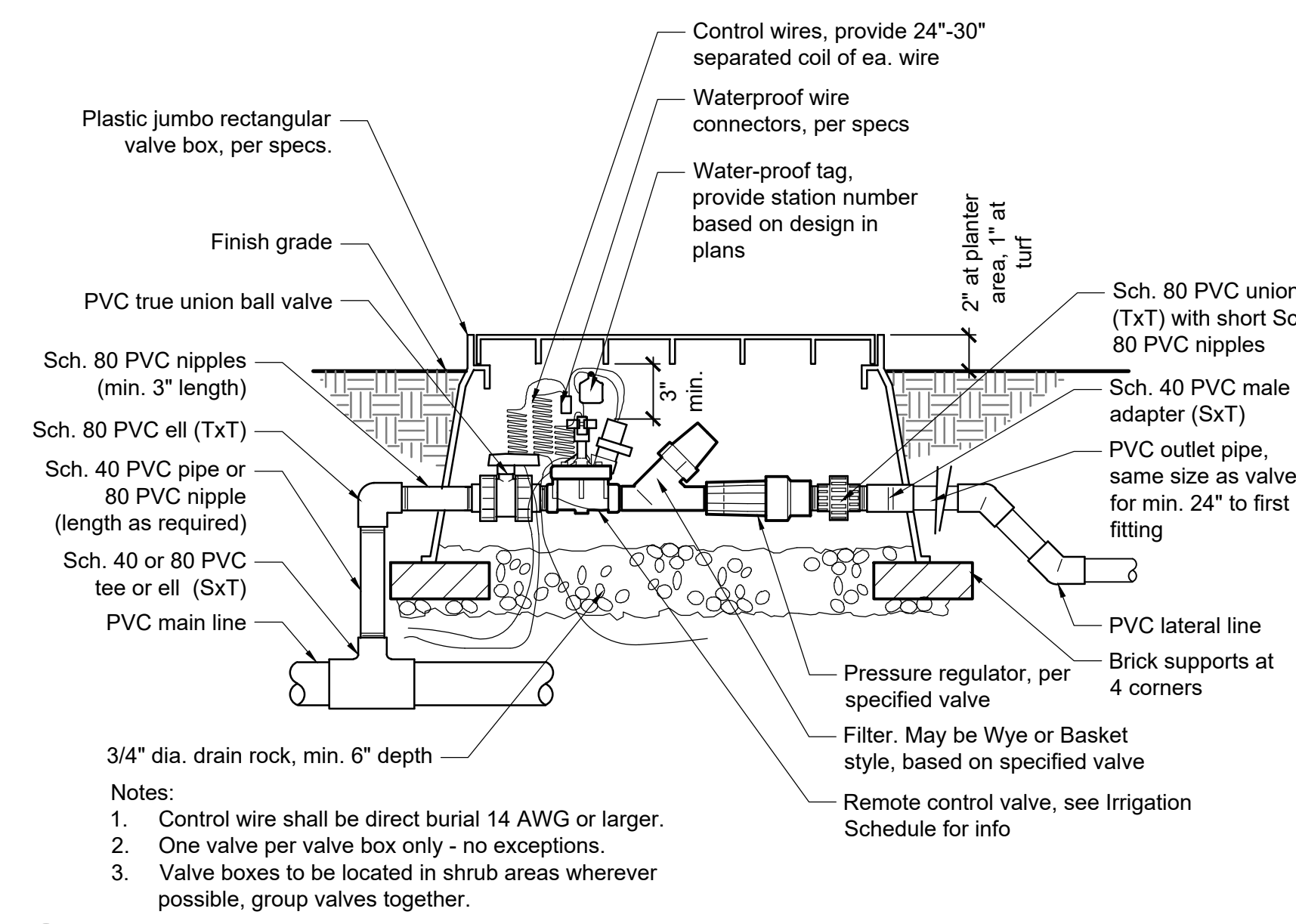
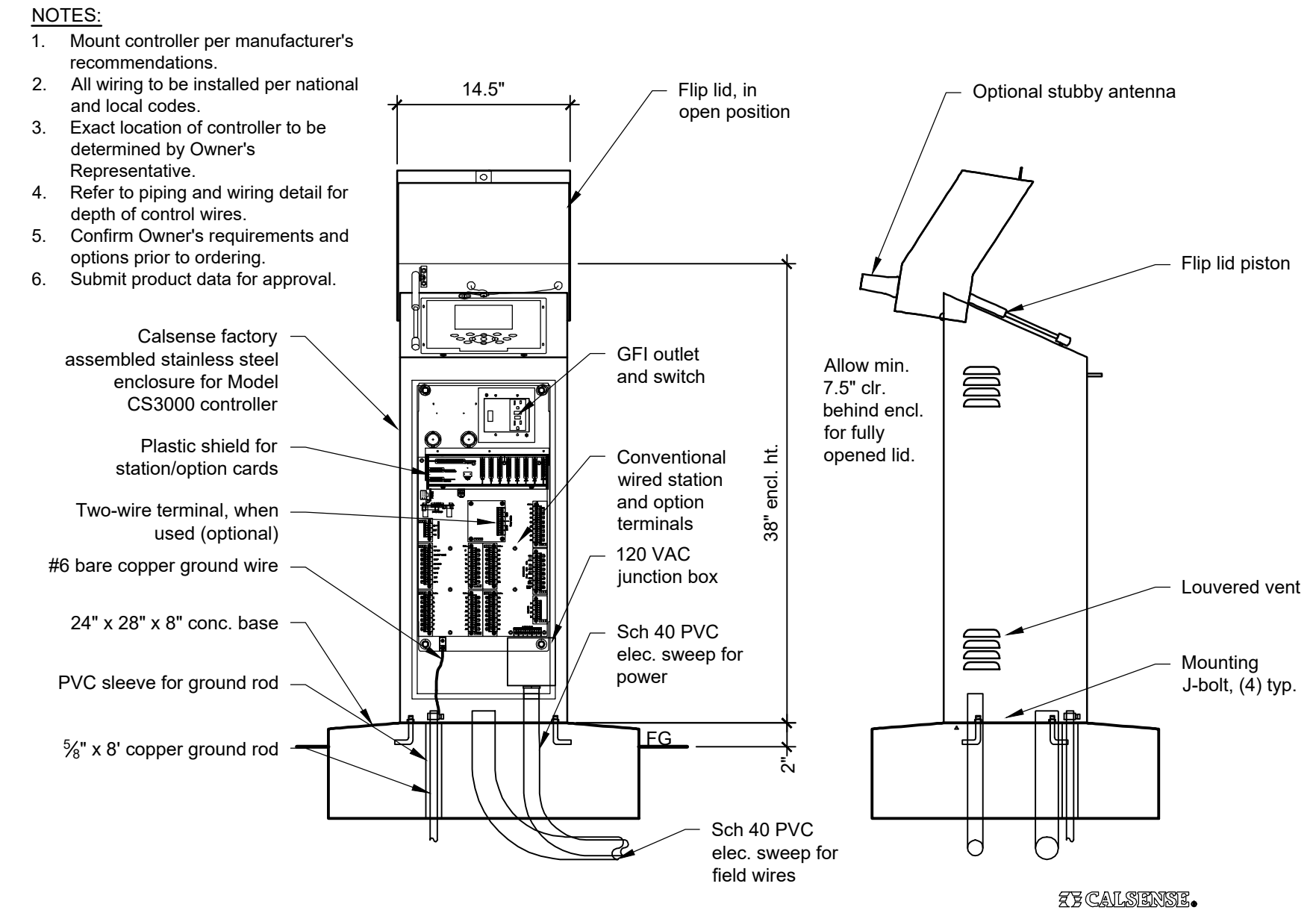
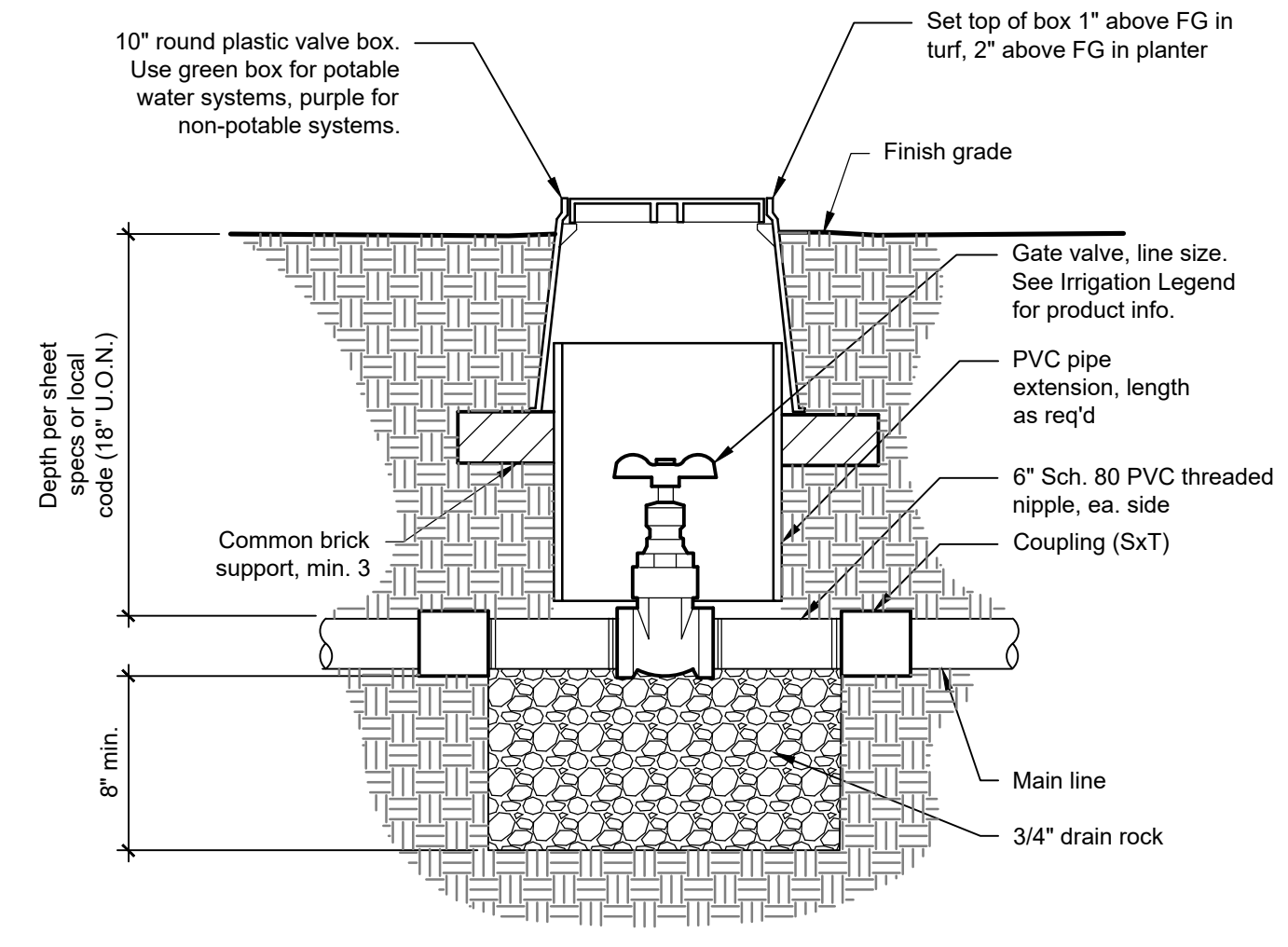
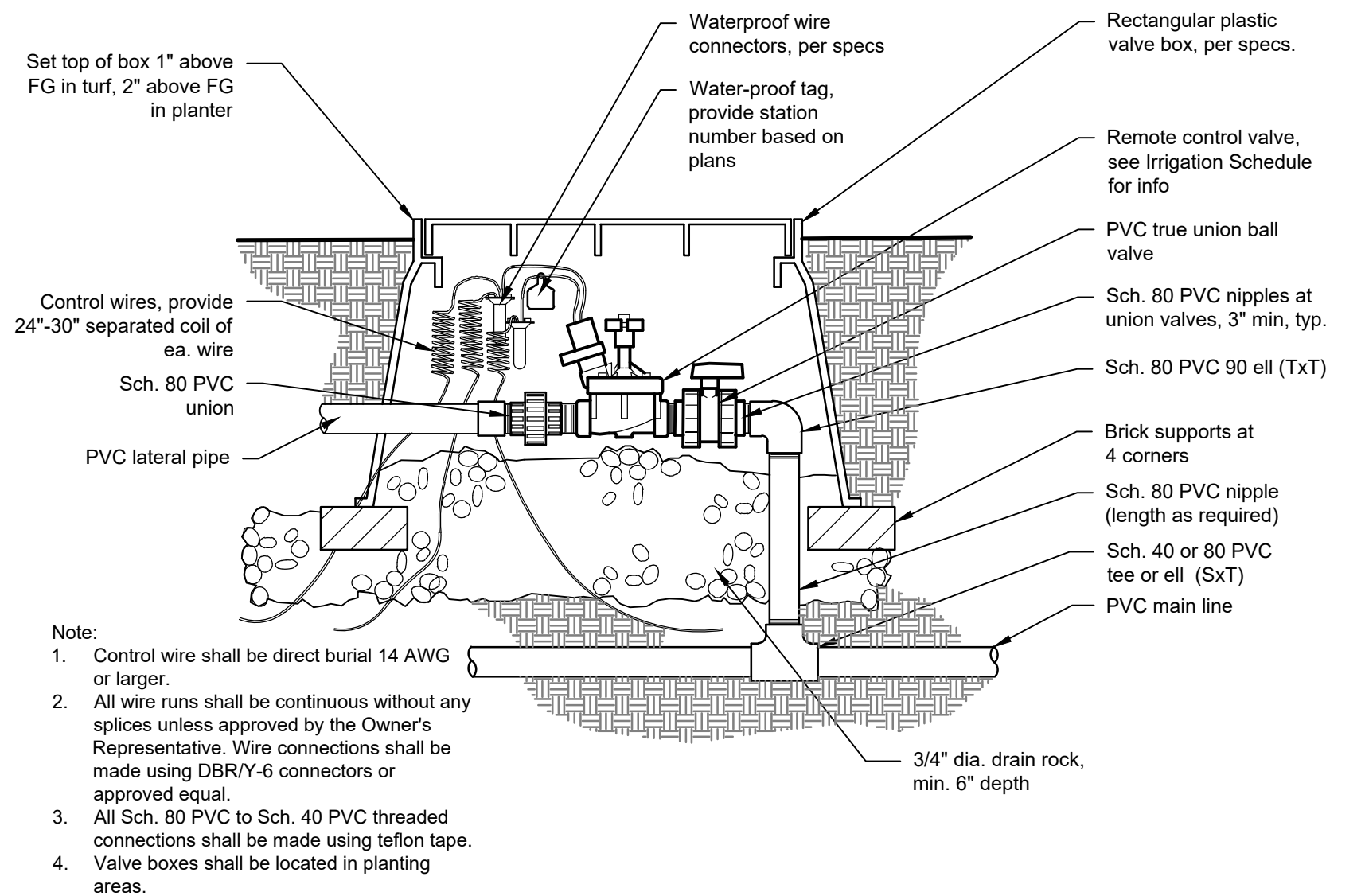
Prepared for:
Saybrook Fund Advisors, LLC

Project:
STANFORD CROSSING ROAD EXTENSION
LATHROP, CA

| Revision No. | Desc. | Date |
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Date: 12/17/2024
Drawn: RSH
Checked: RSH
Project No.: 24-28
Scale: As shown

Sheet:
Planting Details
L4.1



Prepared for:
Saybrook Fund Advisors, LLC

Project:
STANFORD CROSSING ROAD EXTENSION
LATHROP, CA

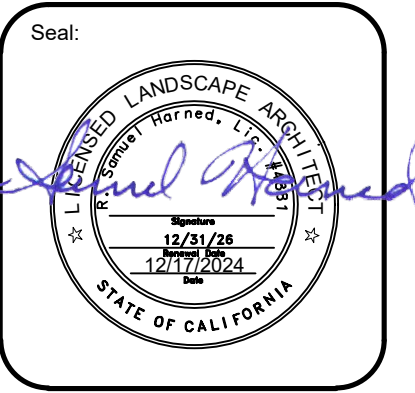
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Date: 12/17/2024
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Irrigation Details
L5.1

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LLC

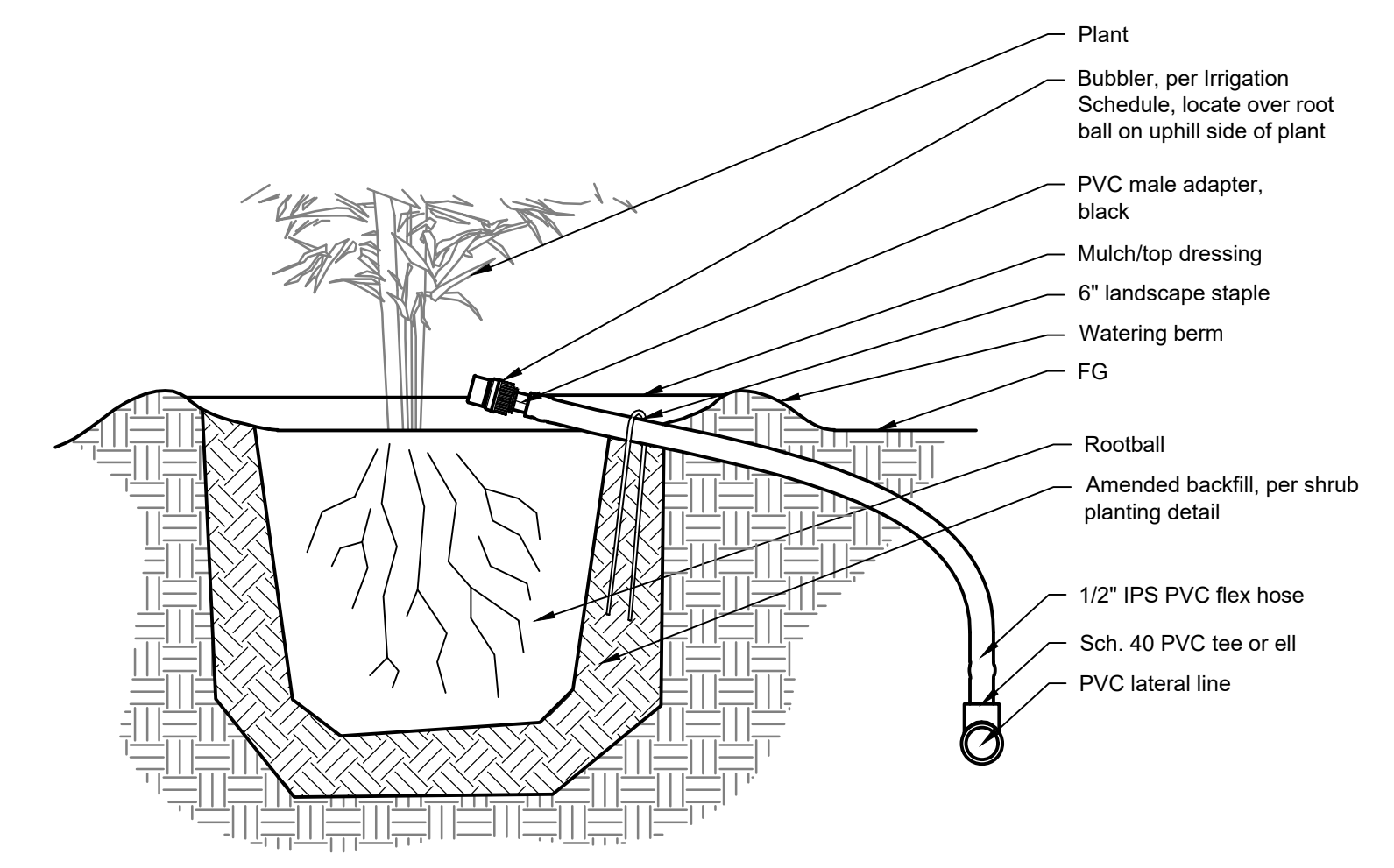
Project:
**STANFORD CROSSING
ROAD EXTENSION**
LATHROP, CA

Revision:
No. Desc. Date

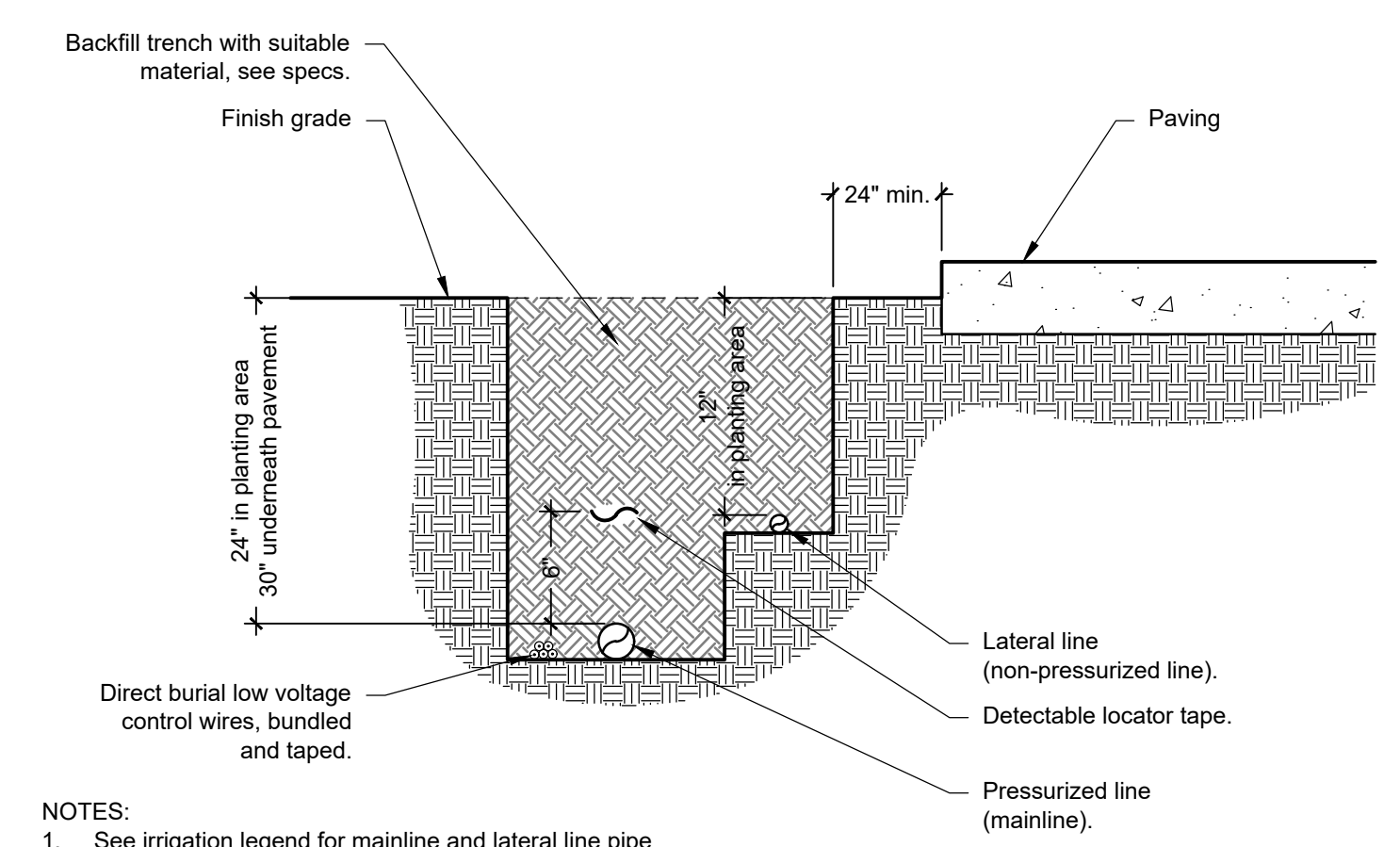
Date: 12/17/2024
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Project No.: 24-28
Scale: As shown

Sheet:
**Irrigation
Details**

L5.2

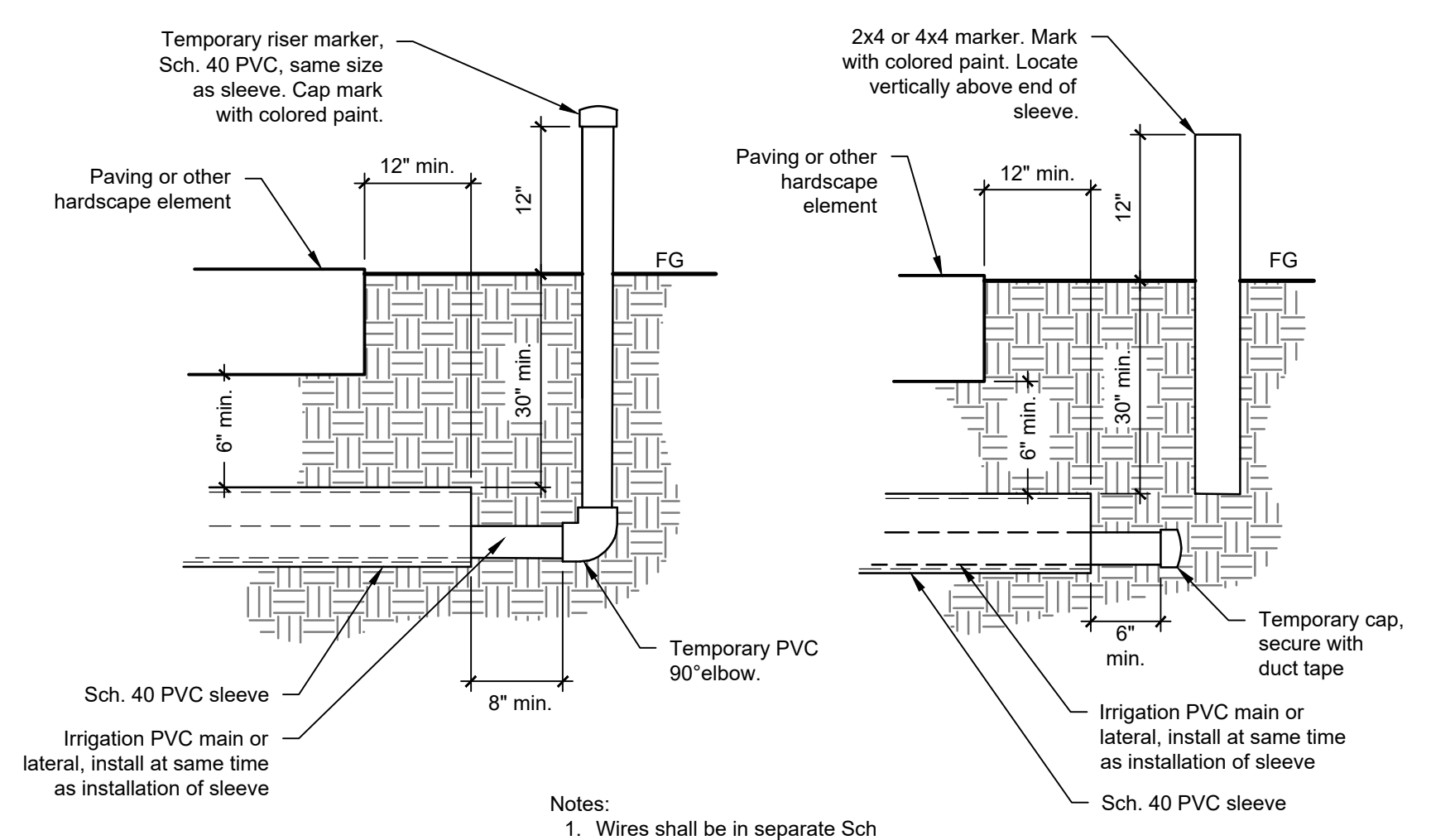


1 BUBBLER ON FLEX HOSE
NTS 328401.01-18



- NOTES:
- See irrigation legend for mainline and lateral line pipe size and type.
 - Direct burial control wires shall be installed in Sch. 40 PVC electrical conduit if required.
 - 2-wire irrigation wire shall be installed in Sch. 40 PVC electrical conduit.
 - Detectable locator tape shall be located six inches (6") above the entire mainline run.

2 TRENCHING
NTS 328401-29



- Notes:
- Wires shall be in separate Sch 40 electrical conduit, min. 1" dia.
 - Install sleeves side by side in the same trench.

3 IRRIGATION SLEEVE
NTS 328401-26

PLANTING SPECIFICATIONS

PART ONE- GENERAL

- 1.01 REGULATORY COMPLIANCE: Comply with all requirements of the following:
 - A. Water Efficient Landscape Ordinance California Code of Regulations Title 23, Division 2, Chapter 2.7 §490 - 494 ("WELO" or the "Ordinance")
 - B. Governing municipality's standards, latest edition.
- 1.02 SUBMITTALS
 - A. Materials List:
 - 1. Prior to start of any irrigation or planting work submit documentation that specified plants have been ordered.
 - 2. Submit requests for substitutions with materials list.
 - B. Delivery Tickets: Submit for all plant deliveries. Include botanical and common names.
 - C. Product Data: Submit catalog cuts, MSDS, installation instructions and other pertinent product data as appropriate and as requested for all materials incorporated into this portion of the Work.
 - D. Federal and State certificates of inspection as applicable.
 - E. Samples: Submit samples as requested.
 - F. Test Reports: Submit soil test results and recommendations.
- 1.03 GUARANTEE
 - A. Guarantee Period: One year immediately following the Plant Establishment Period.
 - B. All planting shall be guaranteed to be in a healthy and thriving condition after completion of Guarantee Period.
 - C. Replace all dead plants and plants not in vigorous growing condition immediately upon notification by Owner or Landscape Architect during Guarantee Period.
 - D. Repair all defective work and materials as directed by Owner or Landscape Architect during guarantee period.

PART TWO - PRODUCTS

- 2.01 FERTILIZERS: All fertilizers shall be of an approved commercial brand with a guaranteed chemical analysis as required.
- 2.02 SOIL CONDITIONERS
 - A. Soil conditioners shall be modified as required by the soil report recommendations
 - B. Organic matter: Dairy Manure.
 - C. Compost: Nitrolized redwood
 - D. Dolomite limestone: Kaiser AG-65 containing not less than 85% of total carbonates. 100% shall pass No. 200 sieve.
 - E. Gypsum: Approved by Landscape Architect.
 - F. Mulch: Recycled organic mulch.
- 2.03 PLANTS
 - A. Quantities shown on Drawings are for Contractor's convenience only. Contractor is responsible for total number of plants represented graphically or by calculation.
 - B. Quality: Plant grading shall conform to ANSI Z60.1
 - C. Prior to ordering any plants, landscape products, or other landscape materials, confirm that all plants specified are available and secure them for this project. Submit acceptable evidence of confirmation. Should any plant not be available, submit a proposed substitute. Plant substitution must be approved by Landscape Architect.
 - D. Condition: All plants shall conform to the following minimum requirements:
 - 1. Nursery grown containerized stock unless otherwise specified.
 - 2. In vigorous growing condition with full foliage and symmetrically branched typically representative of the species.
 - 3. Free from pests, diseases and weeds.
 - 4. Free from damage from pests, diseases, and weeds.
 - 5. Fully and completely rooted but not root-bound.
 - 6. Street Trees: Uniform in appearance, high branched.
 - 7. Oversized Plants: Plants larger than specified size may be used providing height, spread, caliper, and root ball dimensions conform to ANSI Z60.1.

2.04 TOP SOIL

- A. Sandy loam suitable for horticultural use free of rocks, clods, gravel, sticks debris, and other deleterious material.

2.05 HERBICIDES:

- A. Pre-emergent: Surflan or approved equal.
- B. Other Herbicides: As approved. Submit product data and purpose of use for review.

2.06 ACCESSORIES

- A. Tree Stakes: 3" round Lodge Pole pine stakes. Length as required.
- B. Tree Ties: Cinch-Tie by V.I.T. Products. Size and strength per manufacturer's recommendation for tree size.
- C. Root Barriers: Deep Root UB-24-2 and UB-36-2

PART THREE - EXECUTION

3.01 SOIL TESTING AND ANALYSIS

- A. Upon establishment of rough grades in landscape planting areas, take soil samples and have samples analyzed by an approved horticultural soil testing laboratory. Comply with the requirements of §492.5 of the Ordinance.
- B. Collect a minimum of one sample per 10,000 SF for each area of distinct soil characteristics as directed by Landscape Architect.
- C. Prepare a Soil Management Report in compliance with §492.5 of the Ordinance.

3.02 SOIL PREPARATION

- A. Use the mix as specified in the Planting Notes for bidding purposes. Modify or replace the specified quantities based on the recommendations from the Soil Management Report. Final soil preparation shall be as indicated in the Soil Management Report.
- B. Fine grade as specified herein.

3.03 FINE GRADING

- A. Remove rocks and debris that has any dimension larger than 1 inch turned up during preparation.
- B. Rake, drag, and roll area smooth to establish approved finished grades. Maintain established flow lines, slopes, and grade to achieve positive drainage allowing no puddling.
- C. Finished grade requirements: Grade as required to leave landscaped areas with finished grades as follows:
 - 1. Turf Areas: 1" below adjacent paving and curbs.
 - 2. Planting Bed Areas: 2" below adjacent paving and curbs.

3.04 PLANTING

- A. Layout: Plant locations shown on the plans are diagrammatic. Review plant layout with Landscape Architect prior to excavating plant pits. Coordinate layout with irrigation system. Adjust locations of plants as required to avoid conflicts with utilities, underground facilities, paving, and structures.
- B. Coordinate planting operations with other construction to avoid damage to plants by other trades.
- C. Planting operations shall not be conducted during freezing weather, excessive heat, high winds, or excessively wet conditions.
- D. Plant Pit Excavation:
 - 1. Clear and set aside amended soil from area to be excavated.
 - 2. Excavate to sizes indicated on Drawings and flood to test drainage. Notify Landscape Architect of poorly draining pits and propose solution.
 - 3. Roughen sides of pit.
- E. Backfill plant pits with soil excavated from the pit thoroughly mixed with amendments specified in the approved Soil Management Report. Use the mix as specified in the Planting Notes for bidding purposes. Modify or replace the specified quantities based on the recommendations from the Soil Management Report. Submit a detailed change order request that itemizes the specific modifications from the above specification to the recommendations of the Soil Management Report. Provide unit pricing for each item.

3.05 ROOT BARRIERS: Install root barriers on all trees planted within 5'-0" of paving, curb, or walls.

- A. Install immediately adjacent to the paving or curb and extend a distance of 6'-0" each side of the tree along the length of the adjacent paving or curb.
- B. Install 24" deep barriers when adjacent to paving and mow curbs.
- C. Install 36" deep barriers when adjacent to curbs or walls.

3.06 TREE STAKING

- A. Conform to details.
- B. Set stakes plumb without damage to root ball and sufficiently deep to provide intended support.

3.07 PRE-EMERGENT HERBICIDE

- A. Apply in accordance with manufacturer's recommended rates and procedures.
- B. Apply to soil of all Planting Bed Areas prior to placement of mulch.

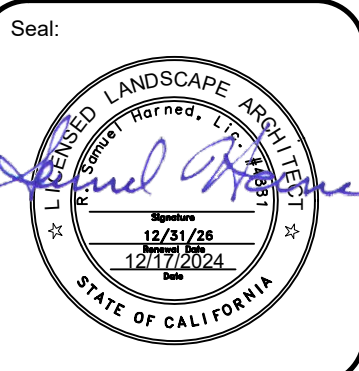
3.08 MULCHING

- A. Apply to a depth of 3 inches uniformly throughout all planter areas not being seeded or sodded.
- B. Thoroughly water mulched areas to ensure moisture penetration to the soil.
- C. Depth of mulch shall be measured as the compacted depth after it has been thoroughly watered in.

3.09 PLANT ESTABLISHMENT PERIOD

- A. The Plant Establishment Period shall be a period of 90 consecutive calendar days immediately following substantial completion. Maintain landscape planting and irrigation system during this period as follows and as necessary.
- B. Provide personnel skilled in all appropriate horticultural, arboricultural, weed control, and pest control sciences and practices as necessary to develop and implement an acceptable maintenance program.
- C. Keep planting beds and turf areas weed free until final acceptance by weeding on a continuous and regular basis so as not to allow establishment of weeds.
- D. Keep all plantings properly watered until final acceptance. Adjust irrigation system and watering times to minimize run-off. Adjust to seasonal and weather conditions.
- E. Contractor shall establish an appropriate fertilization, pest control, and pruning program for the duration of the Plant Establishment Period as required to ensure vigorous establishment and growth of all plantings.
- F. Dead plants and plants that in the opinion of the Landscape Architect are not in vigorous growth condition shall be replaced immediately.
- G. At the end of the Plant Establishment Period, all plantings shall be healthy, in vigorous growing condition, and properly pruned. The irrigation system shall be completely operable and functioning as intended. And, the entire project area shall be clean and free of all weeds. If at the end of the specified Plant Establishment Period the Project is not in a condition acceptable to the Owner, the Plant Establishment Period shall be extended at no cost to the Owner until the Contractor brings the Project into compliance with the requirements of the Contract Documents.

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Prepared for:
Saybrook Fund Advisors, LLC

Project:
**STANFORD CROSSING
ROAD EXTENSION**
LATHROP, CA

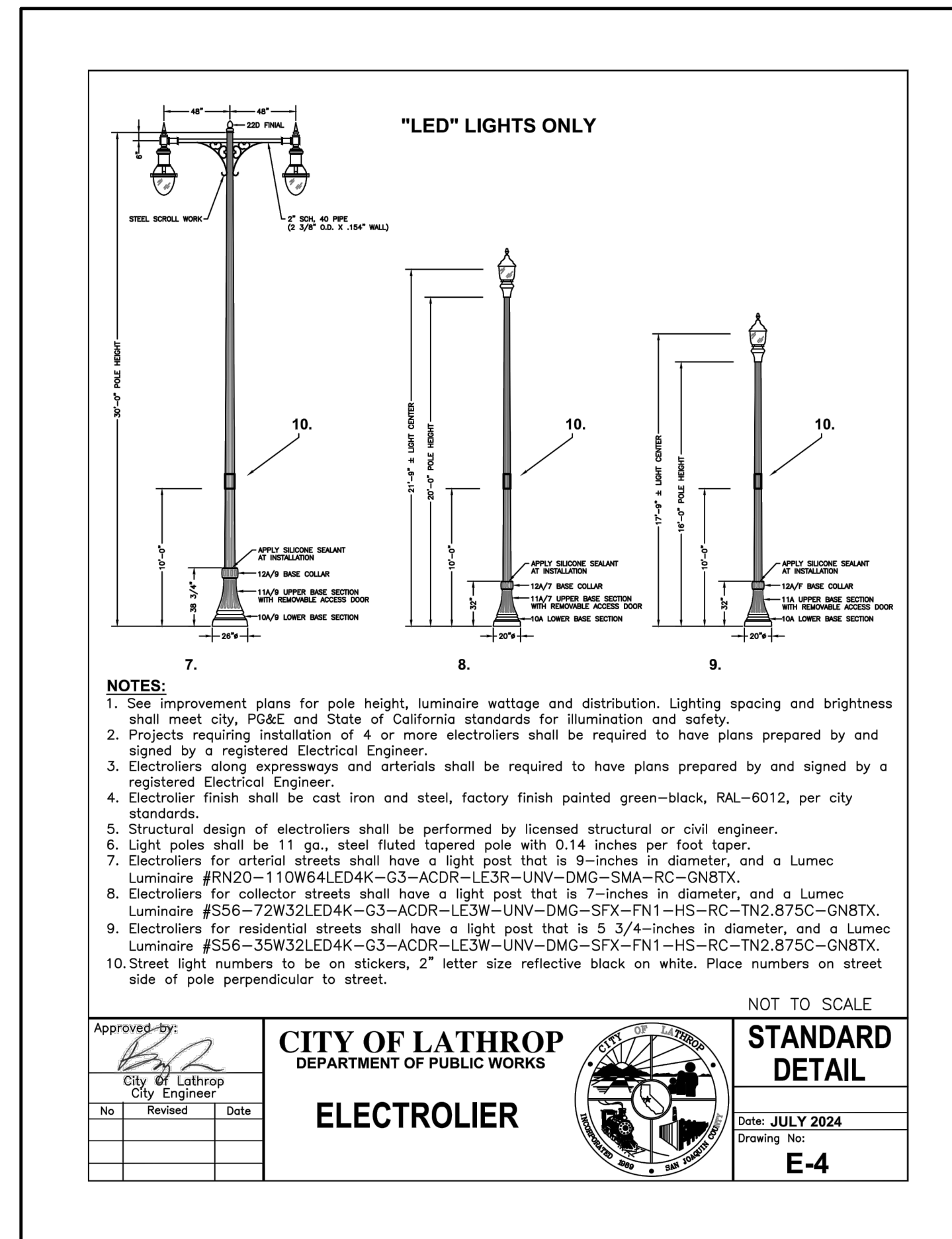
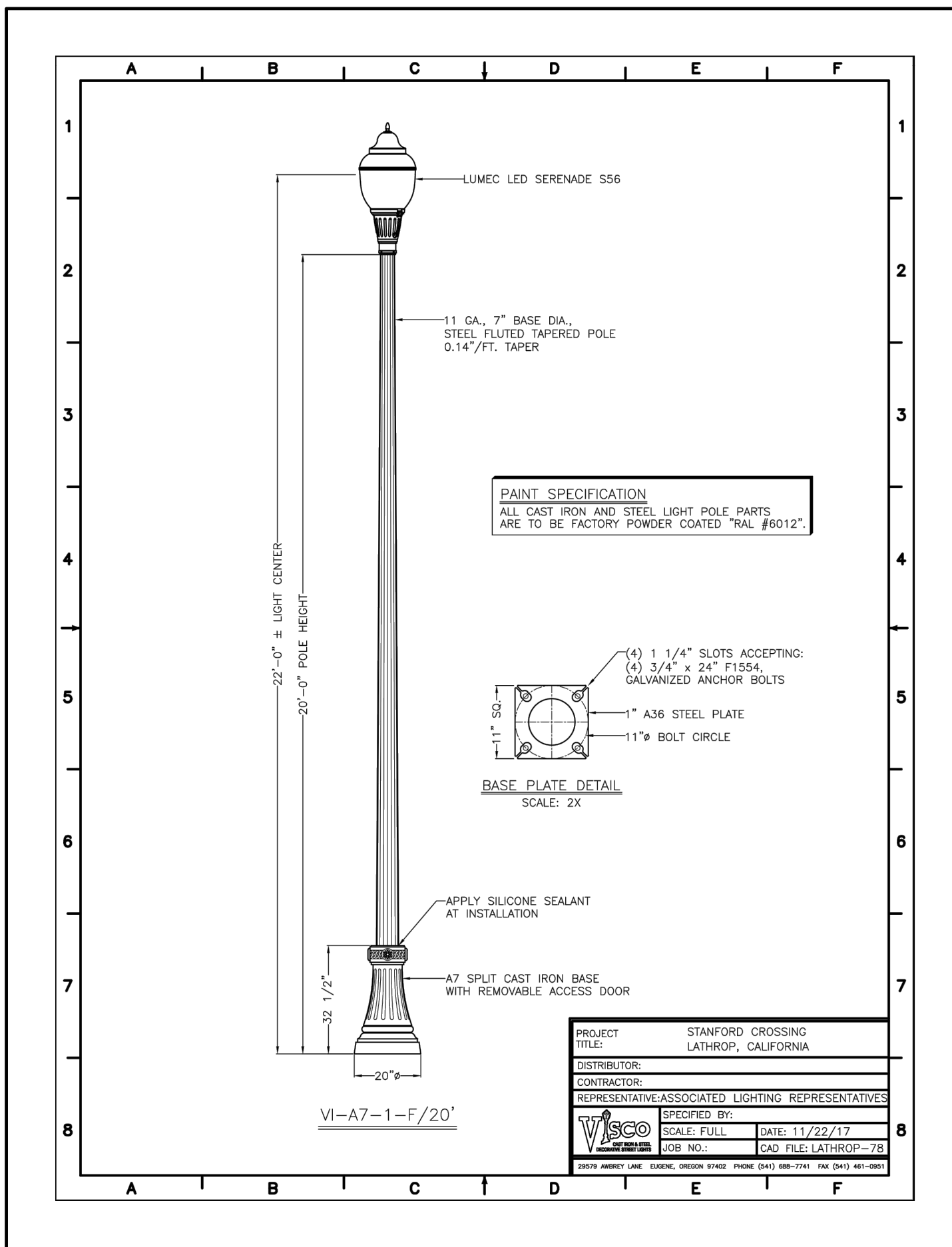
Revision:
No. Desc. Date

Date: 12/17/2024
Drawn: RSH
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Project No.: 24-28
Scale: None

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**Landscape
Specifications**

L7.2

STANFORD CROSSING EXTENSION - STREET LIGHTING

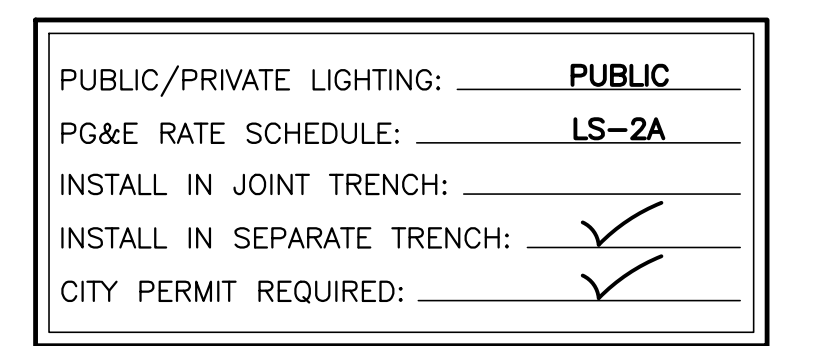
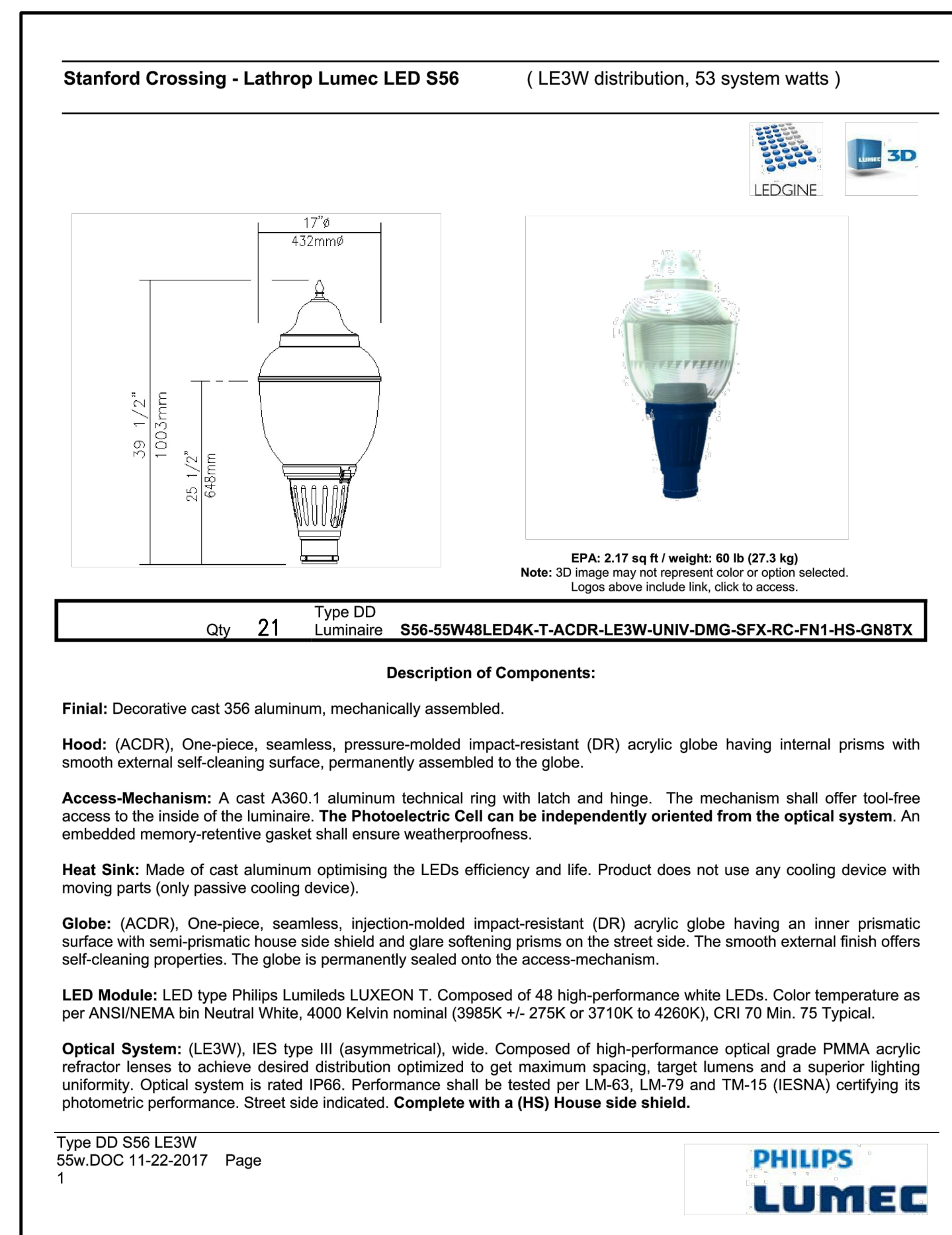
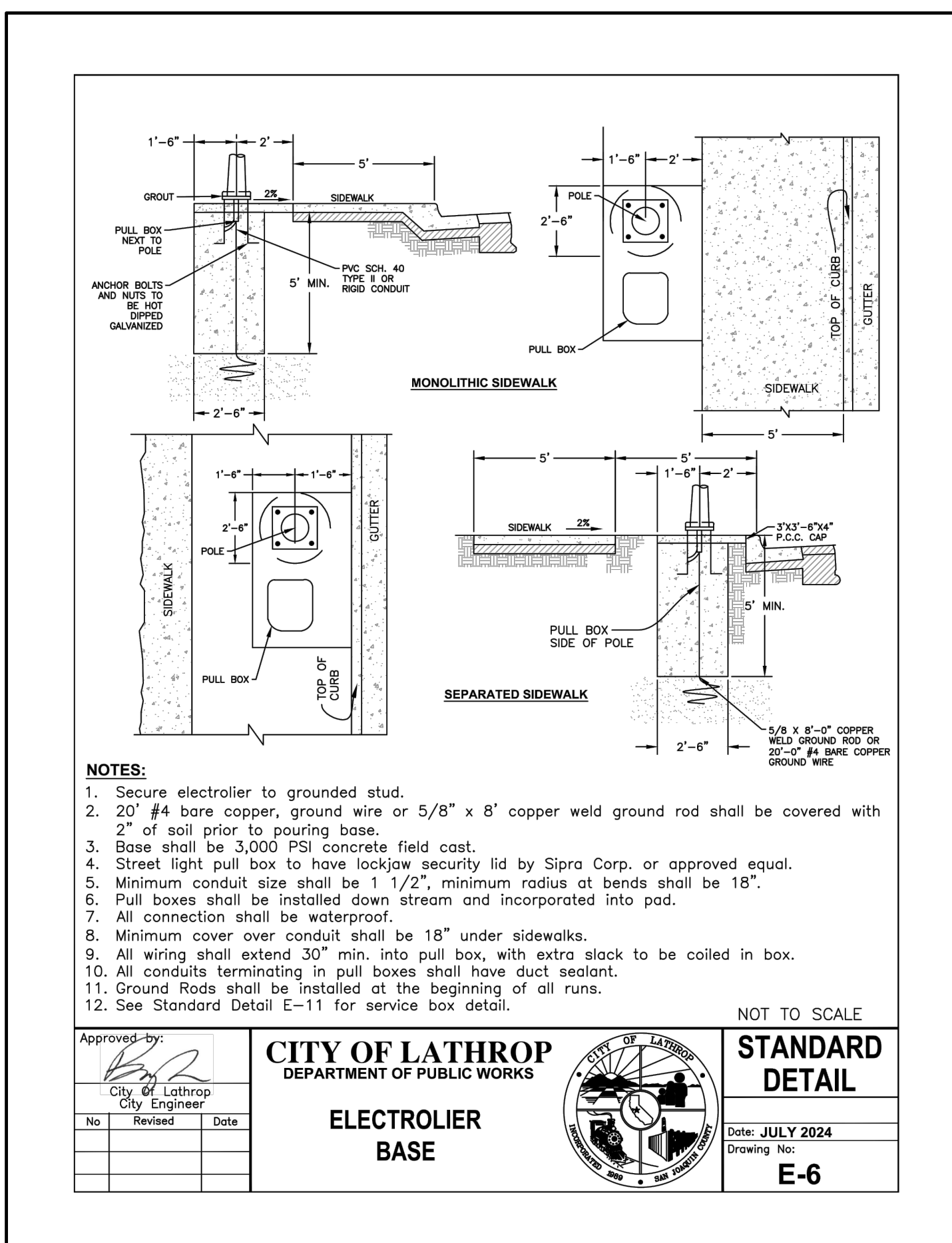


STREET LIGHTING GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A. N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA P.U.C. G.O. 95 SHALL APPLY.
- MATERIALS FURNISHED UNDER THIS SECTION OF THESE SPECIFICATIONS FOR WHICH UL STANDARDS HAVE BEEN ESTABLISHED SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITER'S LABORATORIES, INC.
- WHERE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS CONFLICT WITH THE DRAWINGS OR THESE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING & OBTAINING APPROVAL FROM CITY/COUNTY AGENCY & GIACALONE DESIGN SERVICES, INC.
- GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD REVIEW PROJECT SITE PRIOR TO SUBMITTING ITS BID.
- LEGEND SYMBOLS ARE SHOWN IN STREET AREA FOR CLARITY. INSTALL BEHIND CURB AND/OR SIDEWALK PER COUNTY SPECIFICATIONS KEEP CLEAR OF DRIVEWAYS AND PATHWAYS (TYPICAL).
- ANY CHANGES OR MODIFICATIONS TO PROPOSED STREET LIGHT LOCATIONS SHALL BE APPROVED, IN WRITING, BY THE CITY/COUNTY AGENCY PRIOR TO INSTALLATION.

CONTRACTORS NOTES

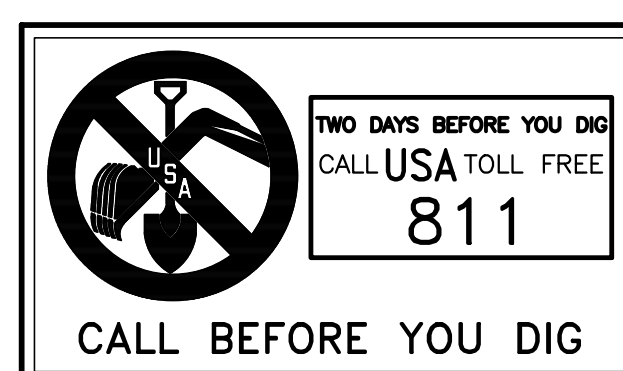
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A. N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA P.U.C. G.O. 95 SHALL APPLY.
- THE ELECTRICAL CONTRACTOR SHALL INSTALL THE UNDERGROUND SERVICE FROM THE LUMINAIRE TO PG&E SERVICE POINT AND TERMINATE CONDUIT AND WIRES AT BOX AS DIRECTED BY PG&E
- KEEP STREET LIGHTS A MINIMUM OF 3 FEET AWAY FROM THE EDGE OF DRIVEWAYS OR 5 FEET AWAY FROM FIRE HYDRANTS.
- TWO OR MORE STREET LIGHTS ON THE SAME CIRCUIT SHALL BE WIRED TO BALANCE THE LOAD. (SEE WIRING DIAGRAM)
- CONDUIT AND FITTINGS:** ALL CONDUIT AND FITTINGS SHALL BE U.L. APPROVED. UNLESS OTHERWISE NOTED OR REQUIRED, USE MINIMUM 2" SCHEDULE 40 P.V.C. CONDUIT AND FITTINGS BELOW GRADE. MINIMUM RADIUS BENDS SHALL BE 18". FOR ABOVE GROUND INSTALLATION AND IN POLE BASE, USE METALLIC RIGID STEEL CONDUIT. PROVIDE PULL WIRE IN ALL EMPLOY CONDUITS. ALL CROSSINGS TO BE PERPENDICULAR TO STREET.
- CONDUIT DEPTH:** 24" UNDER SIDEWALK; 24" UNDER PLANTER STRIP; 36" UNDER PAVEMENT.
- CABLE:** CABLE SHALL BE U.L. LISTED 600 VOLT A.W.G. NO. 8, 7-STRAND SOFT COPPER, TYPE THW OR THWN WITH MINIMUM OF 3/64" (54 MIL) POLYVINYL CHLORIDE INSULATION, UNLESS OTHERWISE NOTED. U.L. LISTED 600 VOLT, NO. 10 IN POLE MAY BE USED.
- SPLICE BOXES:** SPLICE BOXES SHALL BE NO. 3-1/2 STATE TYPE WITH LID AND BRASS HOLDDOWN BOLTS, UNLESS OTHERWISE NOTED. LIDS TO BE INSCRIBED "STREET LIGHTING". SPLICE BOXES SHALL NOT BE MORE THAN 200 FEET APART ON LONG RUNS. (SEE CALTRANS DETAIL ES-8A).
- FUSES:** EACH POLE SHALL BE FUSED WITH WATERPROOF IN-LINE FUSE HOLDERS (BUSHMAN HEB SERIES) AT EACH ADJACENT SPLICE BOX WITH 10 AMP FUSE.
- SPLICING:** ALL SPLICES SHALL BE MADE IN STREET LIGHT BOXES ONLY. SPLICES SHALL BE MADE WITH "C" SHAPED COMPRESSION CONNECTORS. ON SPLICES, WRAP WITH MOISTURE PROOF INSULATION A MINIMUM OF 1-1/2 TIMES THE THICKNESS OF REQUIRED WIRE INSULATION THICKNESS. SPLICES SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD METHOD "B". (SEE CALTRANS DETAIL ES-13A).
- POLE NUMBERS:** OBTAIN AND PLACE POLE NUMBERS ON ALL STREET LIGHT STANDARDS AS REQUIRED. COORDINATE WITH PG&E AND/OR COUNTY. FOR THEIR REQUIREMENTS.
- TRENCH:** CONDUIT CAN BE PLACED IN JOINT TRENCH. CONDUIT LAYOUT IS SHOWN SCHEMATICALLY. SEE COMPOSITE DRAWINGS FOR TRENCH LOCATION. ANY INCIDENTAL TRENCHING NOT PROVIDED BY TRENCHING AGENT IS CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR TO INSTALL CIRCUIT GROUNDING AND GROUND WIRE IN CONDUIT AS PER PLANS.
- CENTERLINE OF STREET LIGHTS SHALL BE LOCATED ON THE LOT LINE UNLESS OTHERWISE NOTED ON THESE PLANS.
- A LIST OF ALL MATERIALS & SUPPLIERS SHOULD BE PROVIDED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL.
- BURN TEST:** DAY BURN FOR 24 HOURS FOR 5 CONSECUTIVE DAYS FOR COUNTY INSPECTOR APPROVAL.
- GROUNDING AND BONDING SHALL PROPERLY INTERCONNECT ALL METAL PARTS OF THE SYSTEM.
- ALL CONNECTIONS SHALL BE SECURED WITH LOCK NUTS AND INSULATED BUSHINGS.
- CONTRACTOR SHALL CONSULT LOCAL AGENCIES FOR THEIR CIRCUIT GROUNDING REQUIREMENTS. IF GROUND WIRE IS REQUIRED IN CONDUIT, INSTALL ACCORDINGLY.
- WATERPROOF INLINE FUSES SHALL BE PROVIDED IN THE SPLICE BOX NEXT TO EACH NEW OR RELOCATED STREET LIGHT. IF THE DESIGN IS SUCH THAT NO BOXES WILL BE INSTALLED, THE SPLICE SHALL BE LOCATED IN THE HANDHOLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE OPERATING SYSTEM.
- EACH STREET LIGHT SHALL BE CONTROLLED BY A PHOTO ELECTRIC CELL MOUNTED ON TOP OF EACH LUMINAIRE OR THE TOP OF EACH POLE DEPENDING UPON THE MANUFACTURER'S RECOMMENDATIONS OR CONTROLLED BY OTHER MEANS AS SHOWN ON THE DRAWINGS.
- FOUNDATION MOUNTED ELECTROLIERS SHALL BE PLUMBED BY ADJUSTING THE NUTS ON THE ANCHOR BOLTS BEFORE THE FOUNDATION CAP IS PLACED. SHIMS OR OTHER SIMILAR DEVICES FOR PLUMBING OR RAKING WILL NOT BE PERMITTED. AFTER PLUMBING THE STANDARD, ANCHOR BOLTS SHALL BE CUT OFF 1/4" ABOVE THE NUTS AND THE EXPOSED SURFACES SHALL BE REPAIRED AS INDICATED BY THE INSPECTING AGENCY.
- AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE STREET LIGHT ADMINISTRATION DEPT. OF THE COUNTY PRIOR TO ACCEPTANCE OF THE STREET LIGHTING SYSTEM.



CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

| LUMINAIRE SCHEDULE | | | | | | | | |
|--------------------|------------------|---------|----------|-----|----------|-------|-------------|----------|
| TYPE | LUMINAIRE | DIST. | MTG. HT. | ARM | POLE HT. | COLOR | MATERIAL | QUANTITY |
| * LED POST TOP | 55W, 48LED, 240V | TYPE 3W | 18'-0" ± | - | 16'-0" | RAL | GALV. STEEL | 22 |
| | | | | | | | | |
| | | | | | | | | |

\*NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES AND SPECIFICATIONS PRIOR TO ORDERING.

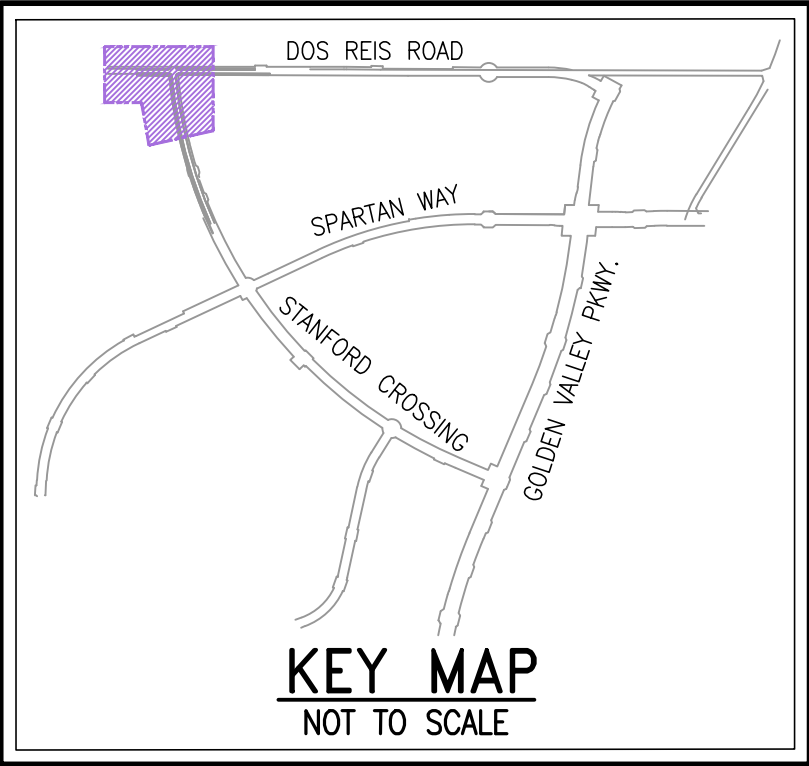
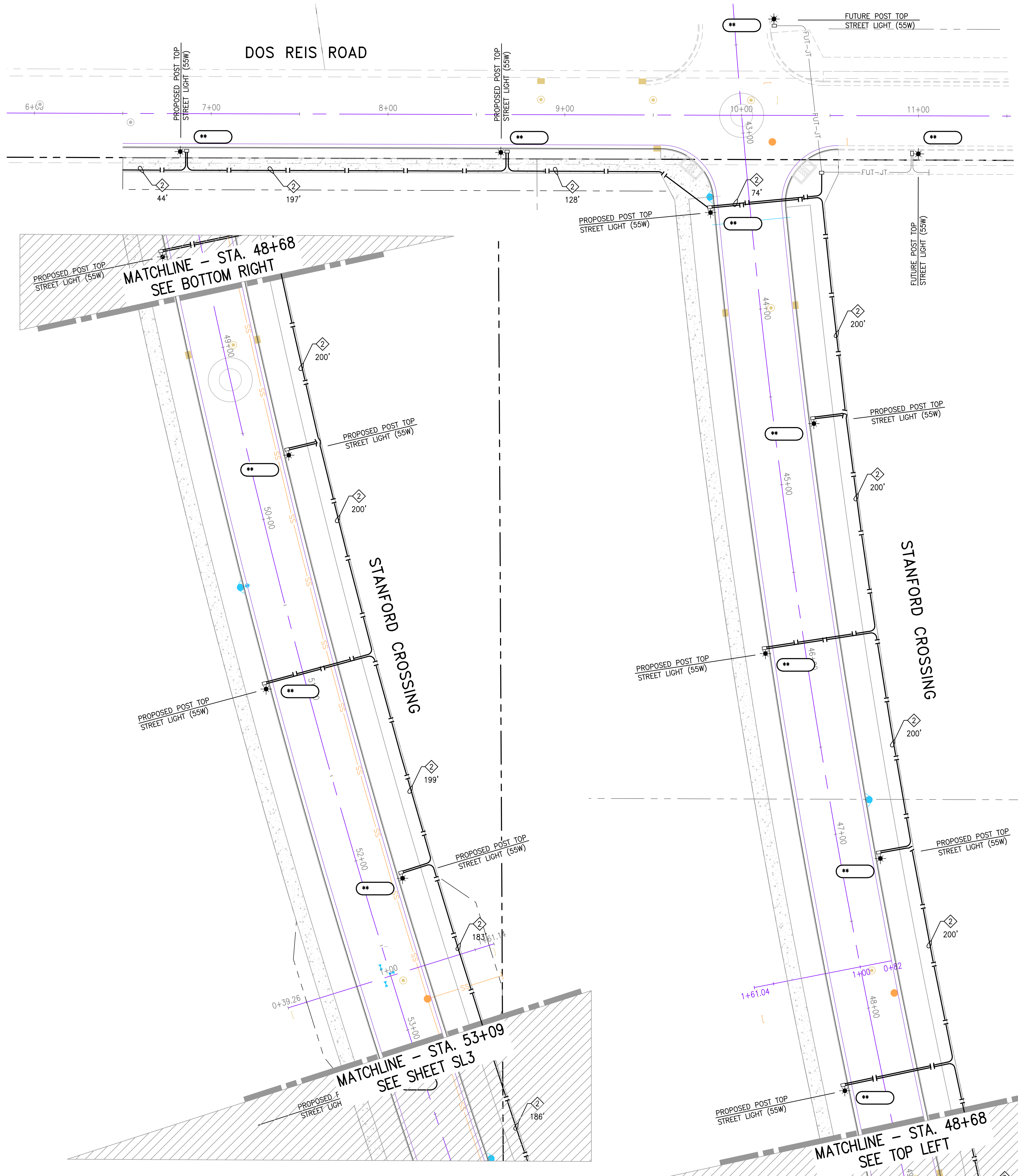


| APPROVED | REVISIONS |
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GIACALONE
DESIGN SERVICES, INC.
5820 STONEMORE WALL RD., #545 LATHROP, CA 94688
226-67-1740 | WWW.GIACALONEDSIGN.COM

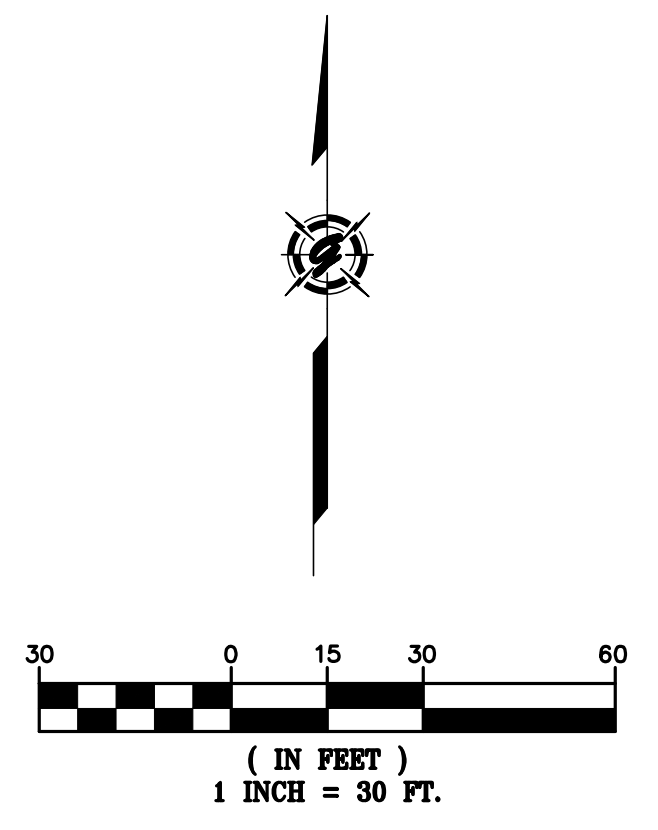
STREET LIGHTING TITLE SHEET
McKay & SOMPS
STANFORD CROSSING EXTENSION
STANFORD CROSSING
CALIFORNIA
LATHROP

PROJECT MANAGER:
A. SAENZ
DRAWN BY:
M. BAKER
CHECKED BY:
A. SAENZ
SCALE:
AS SHOWN
JOB NUMBER:
24-147
DATE LAST MODIFIED:
01-24-25
SHEET
SL1
OF 3 SHEETS



LEGEND

- EXISTING TRENCH OR UTILITIES
- PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
- EXISTING STREET LIGHT SPLICE BOX
- ELECTRIC SERVICE POINT (SECONDARY BOX)
- PROPOSED POST TOP STREET LIGHT (55W)
- PROPOSED POST TOP STREET LIGHT (70W)
- EXISTING STREET LIGHT
- EXISTING DOUBLE ARM STREET LIGHT
- STREET LIGHT POLE NUMBER

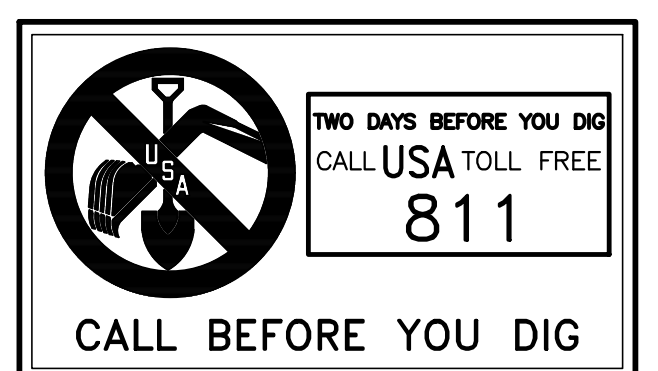
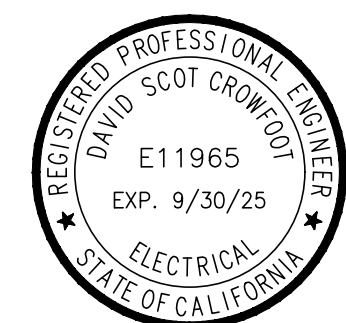


CONDUCTOR AND CONDUIT SCHEDULE

| AWG OR CABLE | RUN NUMBER | | | |
|--------------|------------|----|----|---|
| | 1 | 2 | 3 | 4 |
| #4 | | | | |
| #6 | | | | |
| #8 | | | | |
| #10 | | | | |
| #12 | | | | |
| CONDUIT SIZE | 2" | 2" | 2" | |

NOTE:
CONDUIT SHOWN SCHEMATICALLY. REFER TO JOINT TRENCH COMPOSITE PLAN FOR EXACT TRENCH AND BOX LOCATIONS.

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".



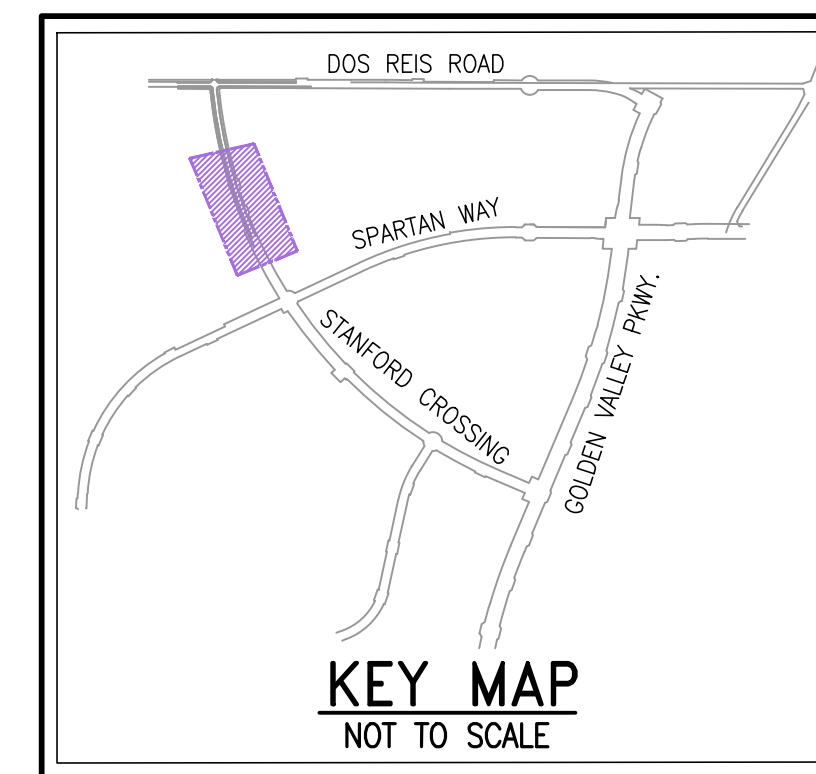
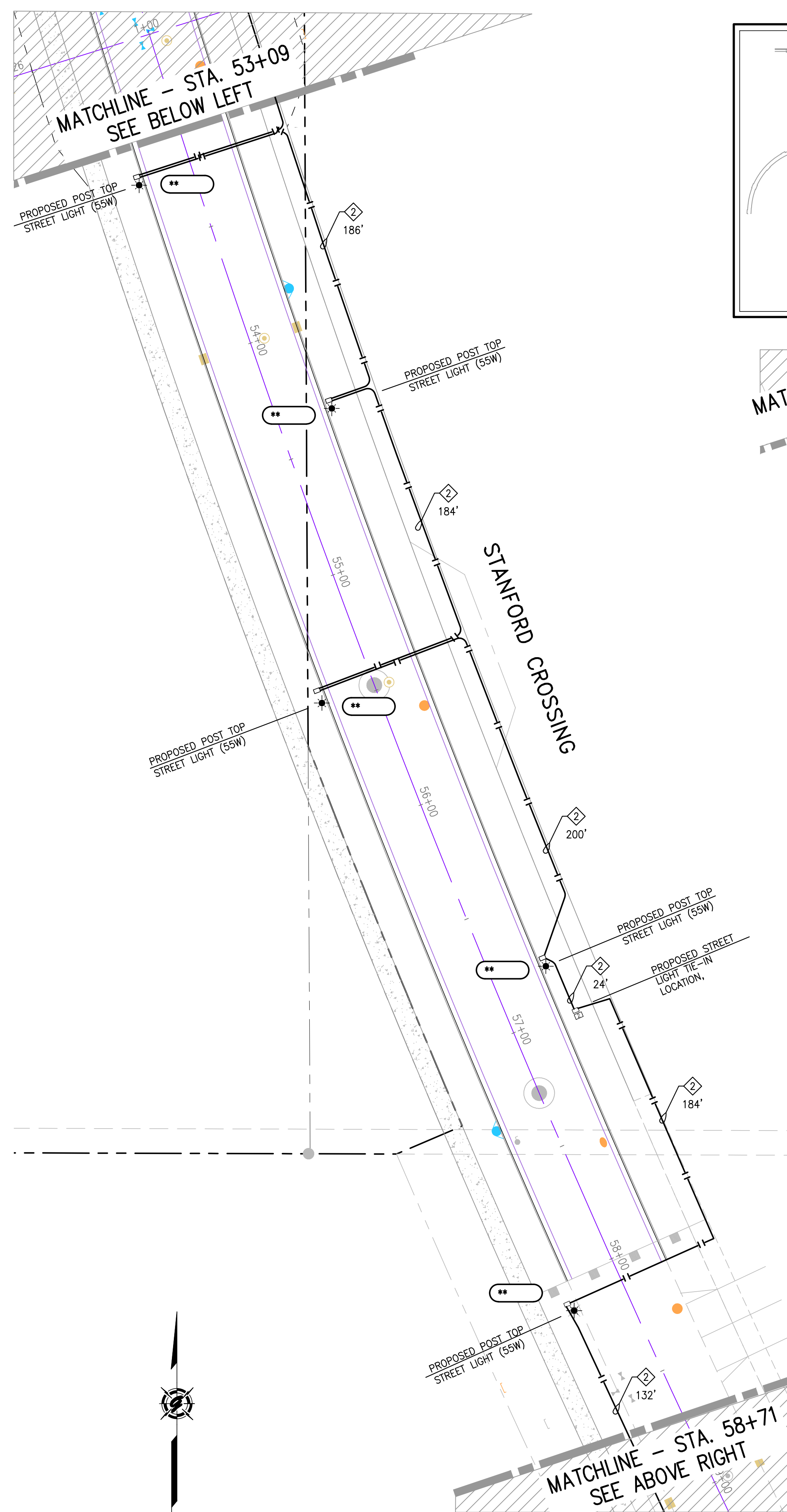
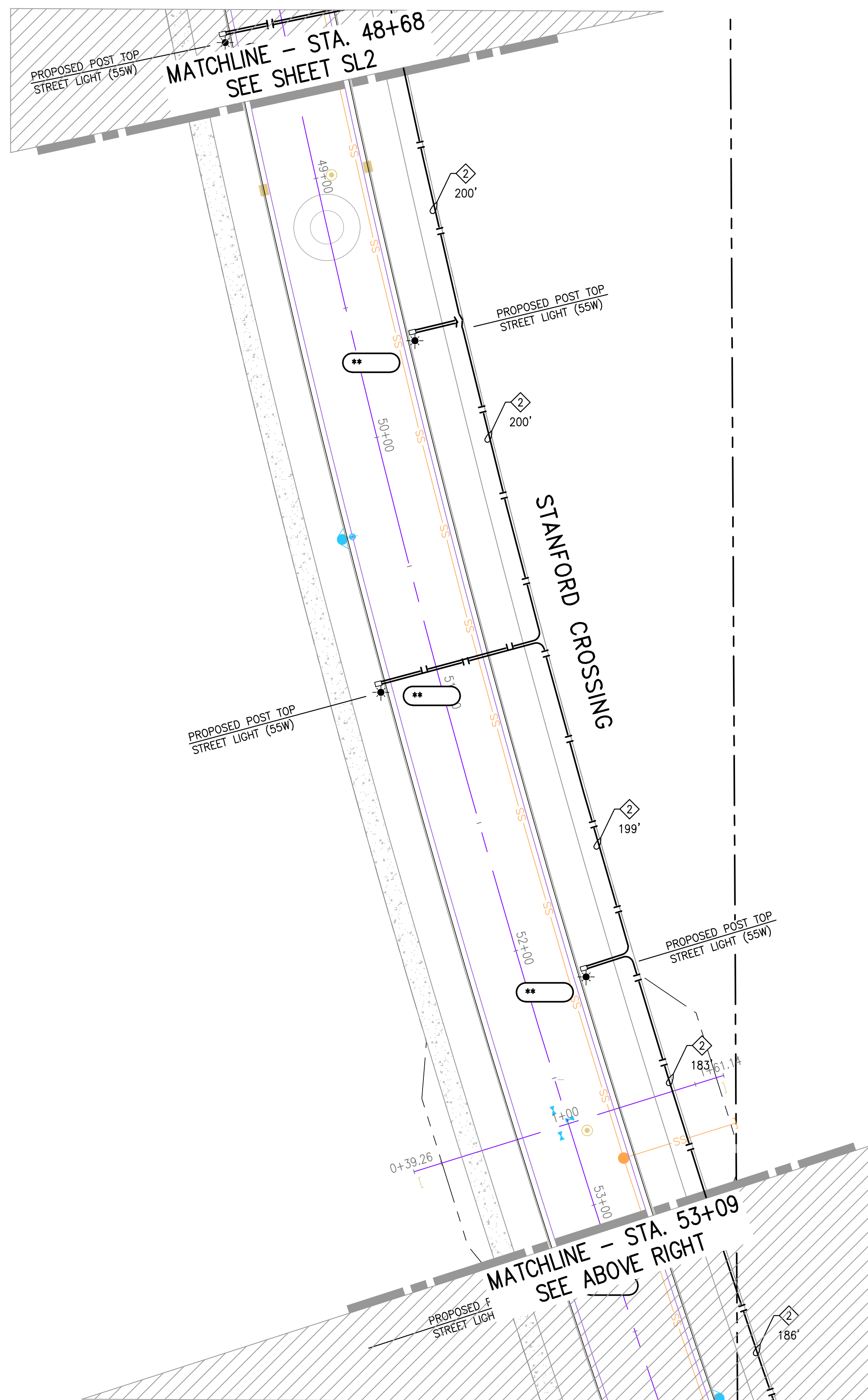
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5200 STONERIDGE MALL, RD., #545 | PLEASANTON, CA 94588
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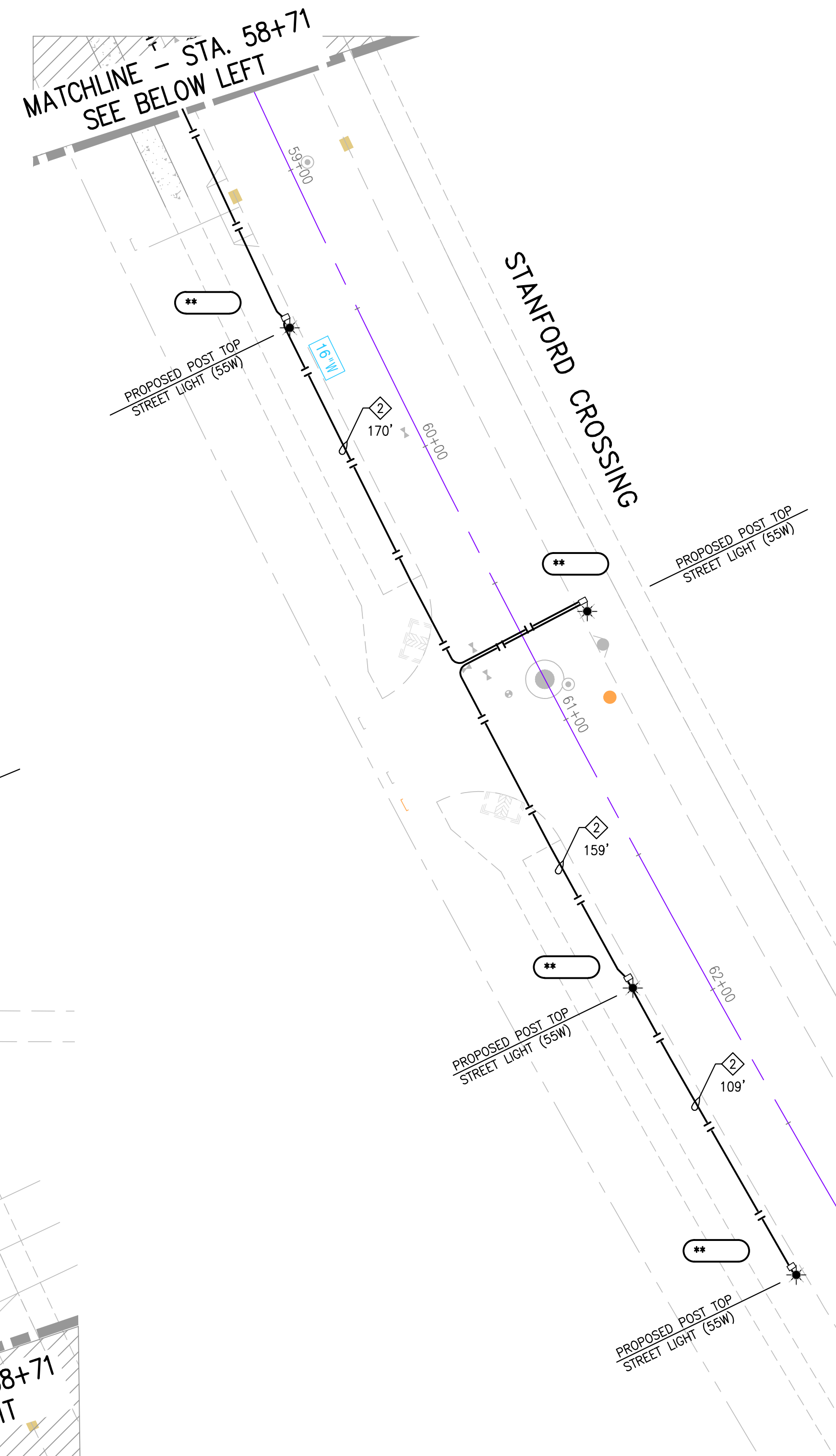
STREET LIGHTING SITE PLAN
McKAY & SOMPS
STANFORD CROSSING EXTENSION
STANFORD CROSSING
CALIFORNIA
LATHROP

PROJECT MANAGER:
A. SAENZ
DRAWN BY:
MB2
CHECKED BY:
D. CROWFOOT, PE
SCALE:
1"=30'
JOB NUMBER:
24-147
DATE LAST MODIFIED:
01-24-25
SHEET
SL2
OF 3 SHEETS



LEGEND

- EXISTING TRENCH OR UTILITIES
- PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
- EXISTING STREET LIGHT SPLICE BOX
- 2 ELECTRIC SERVICE POINT (SECONDARY BOX)
- ★ PROPOSED POST TOP STREET LIGHT (55W)
- ★ PROPOSED POST TOP STREET LIGHT (70W)
- ★ EXISTING STREET LIGHT
- ★ EXISTING DOUBLE ARM STREET LIGHT
- 123456 STREET LIGHT POLE NUMBER

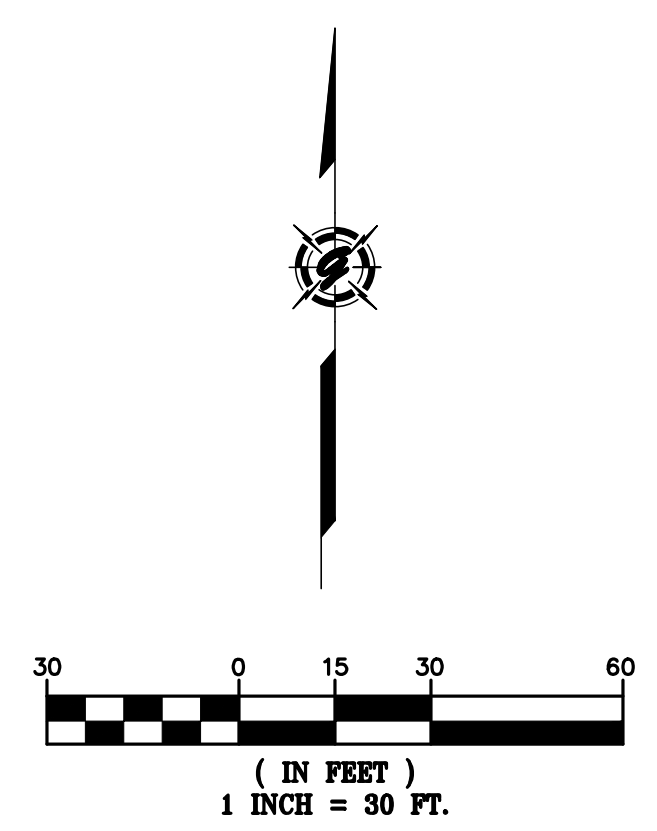


CONDUCTOR AND CONDUIT SCHEDULE

| AWG
OR
CABLE | RUN NUMBER
NUMBER OF CONDUCTORS | | | |
|--------------------|------------------------------------|----|----|---|
| | 1 | 2 | 3 | 4 |
| #4 | | | | |
| #6 | | | | |
| #8 | GND | 2 | 2 | 3 |
| #10 | GND | 1 | 1 | |
| #12 | GND | | | |
| CONDUIT
SIZE | 2" | 2" | 2" | |

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

NOTE:
CONDUIT SHOWN SCHEMATICALLY. REFER TO JOINT TRENCH COMPOSITE PLAN FOR EXACT TRENCH AND BOX LOCATIONS.



REVISIONS

| SYMBOL | DATE | DESCRIPTION |
|--------|------|-------------|
| | | |
| | | |
| | | |
| | | |

GIACALONE
DESIGN SERVICES, INC.
5200 STONERIDGE MALL RD., #545 | PLEASANTON, CA 94688
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