PLOT STAMP: Login Name: lamcadoo
Plot Date: July 02, 2026 - 4:13 pm

CAD FILE: XREFS: BNR-243019_H_22x34 | 243019_XR-BASEMAP | 243019_XR-TOPO | PE STAMP_LR
File Name: P:\Pro\243019-Sacramento-Franklin Blvd Phase 3\1-PLANS\MASTERS\SHEETS\243019_01 - T-1 - TITLE SHEET.dwg

INDEX OF PLAN SHEETS

SHT No.	DWG No.	TITLE
1	T-1	TITLE SHEET
2	G-1	GENERAL NOTES
3	SC-1	SURVEY CONTROL
4-6	X-1 – X-3	TYPICAL SECTIONS
7-9	DM-1 – DM-3	DEMOLITION PLAN
10-17	LPP-1 – LPP-8	LAYOUT PLAN AND PROFILE
18-28	GR-1 – GR-11	GRADING PLAN
29-31	GR-12 – GR-14	GRADING DETAILS
32-33	DP-1 – DP-2	DRAINAGE PROFILE
34	D-1	CONSTRUCTION DETAILS
35-37	W-1 – W-3	WATER PLANS
38	CS-1	CONSTRUCTION AREA SIGNS
39-43	PD-1 – PD-5	SIGNAGE AND STRIPING
44	LM001	LANDSCAPE MATERIALS PLAN NOTES
45-50	LM101 – LM106	LANDSCAPE MATERIALS PLAN
51-52	LM501 – LM502	LANDSCAPE CONSTRUCTION DETAILS
53	LI001	LANDSCAPE IRRIGATION NOTES
54	LI002	LANDSCAPE IRRIGATION LEGEND
55-60	LI101 – LI106	LANDSCAPE IRRIGATION PLAN
61-64	LI501 – LI504	LANDSCAPE IRRIGATION DETAILS
65	LP001	LANDSCAPE PLANTING NOTES
66	LP002	LANDSCAPE PLANTING LEGEND
67-72	LP102 – LP106	LANDSCAPE PLANTING PLAN
73	LP501	LANDSCAPE PLANTING DETAILS
74	E-1	GENERAL NOTES, DETAILS AND LEGEND
75-79	E-2 – E-6	STREET LIGHTING PLAN
80-84	E-7 – E-11	TRAFFIC SIGNAL PLAN
85-86	E-12 – E-13	TRAFFIC SIGNAL INTERCONNECT
87-88	E-14 – E-15	TRAFFIC SIGNAL DETAILS
89-90	E-16 – E-17	CITY SPECIAL PROVISIONS
91-94	E-18 – E-21	STANDARD DETAILS
95	E-22	FIBER OPTIC DETAILS

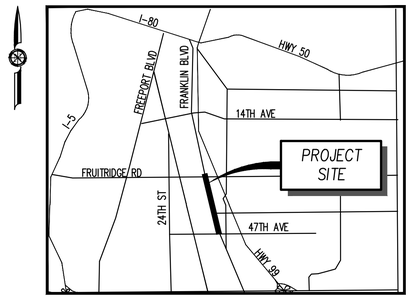
CITY OF SACRAMENTO

IMPROVEMENT PLANS FOR

FRANKLIN BOULEVARD COMPLETE STREET PROJECT PHASE 3

(41ST AVENUE TO FRUITRIDGE ROAD)

PROJECT #: T15165503



VICINITY MAP

NOT TO SCALE

APPROVED BY: _____ DATE
JUDITH MATSUI-DRURY, R.C.E. 59096
SUPERVISING ENGINEER, CIVIL/ELECTRICAL
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: _____ DATE
MEGAN CARTER, R.C.E 75885, T.E. 2842
CITY TRAFFIC ENGINEER
DEPARTMENT OF PUBLIC WORKS
(SIGNING AND STRIPING)

APPROVED BY: _____ DATE
ROXANNE DILLEY, R.C.E. 78954
SUPERVISING ENGINEER, WASTEWATER
DEPARTMENT OF UTILITIES

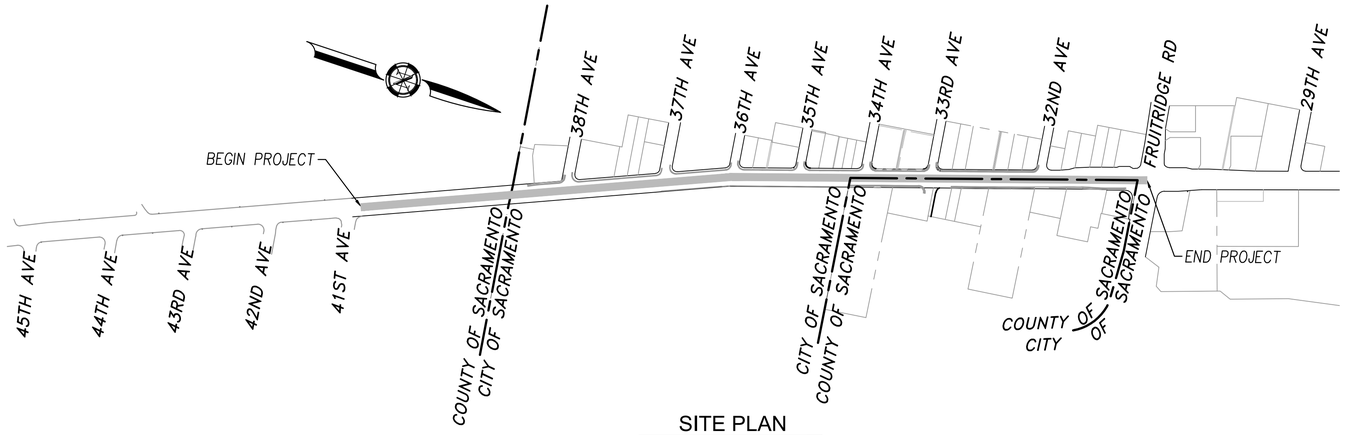
APPROVED BY: _____ DATE
JOHN M. MATOBA, R.E.E 16605
SENIOR ELECTRICAL ENGINEER
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: _____ DATE
MICHELLE CARREY, R.C.E. 58722
SUPERVISING ENGINEER, WATER
DEPARTMENT OF UTILITIES

APPROVED BY: _____ DATE
BRETT GRANT, R.C.E 58964
SUPERVISING ENGINEER, DRAINAGE
DEPARTMENT OF UTILITIES

APPROVED FOR IMPROVEMENTS WITHIN SACRAMENTO COUNTY BY:

STEPHEN V. WHITE, CHIEF
DEPARTMENT OF TRANSPORTATION _____ DATE



SITE PLAN

NOT TO SCALE

DIGALERT
DIAL TOLL FREE
1-800-642-2444
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: NTS
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE JULY 2026

DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026

CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

TITLE SHEET

T15165503

DWG. NO. T-1

SHEET 1 OF 95

PLOT STAMP: Login Name: lamoeder, Plot Date: July 02, 2026 - 4:14 pm

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH: CITY OF SACRAMENTO DESIGN & PROCEDURES MANUAL, DATED SEPTEMBER 1990, CITY STANDARD SPECIFICATIONS, DATED NOVEMBER 2025 WITH APPLICABLE ADDENDA, CALTRANS STANDARD PLANS, 2025 EDITION EXCEPT FOR TRAFFIC SIGNAL POLES AND FOUNDATIONS SHALL BE PER 2006 EDITION, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
2. THREE WORKING DAYS PRIOR TO REQUIRING PROJECT STAKING, THE CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER OR INSPECTOR A COMPLETED CONSTRUCTION STAKING REQUEST FORM.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND FOR PROVIDING PROPER AND SAFE ROUTING OF THE VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO WORKING HOURS. THE USE OF FLAGGERS, BARRICADES AND CONSTRUCTION SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA MUTCD.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES AND PROTECTING AND REPAIRING DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (1-800-642-2444) TWO WORKING DAYS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SEWER AND/OR DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE PROPOSED SEWER AND/OR DRAINAGE IMPROVEMENTS ARE PLACED AND FUNCTIONING.
6. THE RESIDENT ENGINEER SHALL DETERMINE THE EXACT LIMITS OF PAVEMENT REMOVAL IN THE FIELD. EXISTING ASPHALT AND CONCRETE SHALL BE SAWCUT IN A NEAT STRAIGHT LINE A MINIMUM OF 2-1/2" DEEP. THE EXPOSED VERTICAL EDGES SHALL BE TACKED WITH EMULSION PRIOR TO ASPHALT CONCRETE PAVING.
7. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING FEATURES DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
8. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR PROTECTING EXISTING TREES NOT SCHEDULED TO BE REMOVED BY THIS CONTRACT. ANY TREE DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, AT HIS EXPENSE.
9. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR CAPPING AND RELOCATING EXISTING SPRINKLERS AS DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR SHALL HAVE A CURRENT AND ACTIVE CLASS A – GENERAL ENGINEERING CONTRACTOR LICENSE ISSUED BY THE CCSLB AT THE TIME OF THE BID SUBMITTAL AND THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR, AND/OR SUBCONTRACTOR'S PERFORMING ELECTRICAL WORK, SHALL ALSO HAVE A CURRENT AND ACTIVE CLASS C10 – ELECTRICAL CONTRACTOR LICENSE ISSUED BY THE CCSLB AT THE TIME OF THE BID SUBMITTAL AND THROUGHOUT THE CONSTRUCTION PERIOD.
11. ALL CURB, GUTTER AND SIDEWALK SHOWN TO BE REMOVED SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT OR SCORE MARK. DAMAGE TO EXISTING CURB, GUTTER, AND SIDEWALK WHICH IS SHOWN ON THE PLANS TO REMAIN, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY & HEALTH (2424 ARDEN WAY SUITE 165, SACRAMENTO, CA PHONE 263-2800) PRIOR TO ANY TRENCHING EXCAVATION 5 FEET OR MORE IN DEPTH. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
13. REPLACEMENT OF LIVE SEWER SERVICES SHALL BE TO THE PROPERTY LINE. REPLACEMENT SEWER CLEANOUTS AND SERVICES SHALL HAVE THE SAME DIAMETER PIPE AS THE EXISTING, WITH THE EXCEPTION OF MAINTAINING A 4" MINIMUM DIAMETER.
14. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR PRESERVING ALL EXISTING MONUMENTS WHICH WILL BE DISTURBED OR REMOVED AS REQUIRED BY CONTRACTOR'S WORK. CONTRACTOR SHALL COORDINATE WITH ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OF EXISTING MONUMENTS, AND SHALL HAVE A LICENSED LAND SURVEYOR RESET MONUMENTS, PROVIDE PERMANENT WITNESS MONUMENTS, AND FILE DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO THE BUSINESS AND PROFESSIONS CODE.
15. THE CONTRACTOR, SUBCONTRACTOR OR SURVEYOR SHALL NOT CUT PERMANENT CROSSES INTO EXISTING CONCRETE CURBS, GUTTERS OR SIDEWALKS.
16. GUTTER SLOPES FROM THE FLOWLINE TO LIP SHALL BE 5% MAXIMUM FOR THE FULL-WIDTH OF ALL CURB RAMPS. THE 5% CROSS SLOPE SHALL TRANSITION TO THE STANDARD CURB AND GUTTER CROSS-SLOPE OVER A DISTANCE OF 3 FEET UNLESS NOTED OTHERWISE.
17. ANY NEW CONCRETE SURVEY MONUMENT (PER CITY STANDARD SPECIFICATION DETAIL) SHALL BE PLACED BY A LICENSED LAND SURVEYOR.

GENERAL WATER NOTES

1. WATER MAINS, FITTINGS, GATE VALVES, FIRE HYDRANTS, AND WATER SERVICES SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS DATED NOVEMBER 2020.
2. THE CITY OF SACRAMENTO STANDARD WATER DRAWINGS HAVE BEEN MODIFIED & RENUMBERED. CONTRACTOR SHALL BE IN POSSESSION OF THE MOST CURRENT STANDARD WATER DRAWINGS PRIOR TO START OF CONSTRUCTION. COPIES OF THE MOST CURRENT STANDARD WATER DRAWINGS AND NEW DRAWING NUMBERS CAN BE FOUND ON THE CITY WEB SITE AT HTTP://WWW.CITYOFSACRAMENTO.ORG/UTILITIES/MEDIA-ROOM/, CLICK ON THE PUBLICATIONS, AND THEN UTILITIES STANDARDS LINKS.
3. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION SECTION OF THE CITY OF SACRAMENTO ENGINEERING DIVISION AT (916) 808-6810 AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK FOR CONSTRUCTION SURVEYS AND THE SCHEDULING OF CONSTRUCTION INSPECTION.
4. PRIOR TO BEGINNING ANY EXCAVATION AND TO AVOID CONFLICTS, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IN THE AREA OF THE PROPOSED WORK. SUCH EXISTING UTILITIES SHALL INCLUDE, BUT NOT BE LIMITED TO, ELECTRICAL OR TELEPHONE CONDUITS AND CABLES, GAS LINES, WATER MAINS, SEWER AND DRAIN LINES, CABLE TV, ETC.
5. A SOLID NO. 10 COPPER WIRE INSULATED WITH HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE) (BLUE COLOR ONLY) LOCATING WIRE SHALL BE PLACED WITH ALL PIPES FOR WATER DISTRIBUTION REGARDLESS OF MATERIAL TYPE. SEE W-102.
6. NOTIFY UNDERGROUND SERVICE ALERT (USA) A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK. (CALL 1-800-642-2444).
7. WATER SERVICE TAP SHALL BE SEPARATED AT A MINIMUM OF 36". CLEAR SEPARATION OF 36" SHALL BE MAINTAINED BETWEEN ALL FITTINGS, BELLS, SADDLES, ETC.
8. SECTION 10-30(6L) AND SECTION 10-31(3) OF THE STANDARD SPECIFICATIONS SHALL BE AMENDED TO READ, "FIRE HYDRANTS AND VALVES SHALL TURN LEFT (COUNTERCLOCKWISE) TO OPEN" (NORTH OF AMERICAN RIVER ONLY).
9. THE CONTRACTOR SHALL SCHEDULE ALL REQUESTS FOR CITY INSTALLED WATER SYSTEM TIE-IN CONNECTIONS OR TAPS, WATER MAIN SHUT DOWNS AND IRRIGATION TAPS WITH THE DEPARTMENT OF TRANSPORTATION, ENGINEERING DIVISION. FOR SCHEDULING AND COORDINATION, CALL (916) 808-6810 AT LEAST 14 WORKING DAYS IN ADVANCE.
10. EXISTING WATER PIPE, VALVES, STANDPIPES, AND VALVE BOXES TO BE ABANDONED IN PLACE SHALL BE ABANDONED AS FOLLOWS: THE GATE VALVE SHALL BE LEFT IN THE CLOSED POSITION, AND THE STANDPIPE SHALL BE REMOVED AND VOID FILLED WITH CLASS 2 AGGREGATE BASE OR PEA GRAVEL. OPEN ENDS OF EXISTING PIPE TO BE ABANDONED IN PLACE SHALL BE SEALED WITH TWO FEET OF CONCRETE.
11. WITHOUT EXCEPTION, ALL OPENING AND CLOSING OF VALVES ON EXISTING WATER MAINS, SHALL BE PERFORMED BY DEPARTMENT OF UTILITIES FIELD PERSONNEL.
12. THE CONTRACTOR SHALL PAY ALL FEES FOR IRRIGATION TAPS, IRRIGATION METERS AND CITY INSTALLED WATER SYSTEM TIE-IN, METERS OR TAPS AT THE COMMUNITY DEVELOPMENT DEPARTMENT OFFICES AT 300 RICHARDS BLVD., THIRDS FLOOR PUBLIC COUNTER FOR ADDITIONAL INFORMATION CONCERNING FEES, CALL (916) – 808-5454. DEPARTMENT OF UTILITIES FIELD PERSONNEL SHALL NOT TAP MAINS OR PROVIDE OTHER SERVICE UNTIL ALL FEES HAVE BEEN PAID.
13. FEES ARE SUBJECT TO CHANGE EVERY JULY 1ST OR AT ANY TIME. FOR CURRENT FEE SCHEDULE VISIT HTTP://WWW.CITYOFSACRAMENTO.ORG/UTILITIES/MEDIA-ROOM/PUBLICATIONS.CFM
14. EXISTING CITY FIRE HYDRANTS REMOVED OR REPLACED BY THE CONTRACTOR SHALL BE RETURNED TO THE DEPARTMENT OF UTILITIES FIELD OFFICE AT 5730 24TH ST, BUILDING 7.
15. REQUEST FOR PUBLIC FIRE HYDRANT USE PERMIT FOR CONSTRUCTION PURPOSES SHALL BE APPLIED FOR AT THE DEPARTMENT OF UTILITIES, CUSTOMER SERVICE SECTION, 1395 35TH AVENUE. FOR PERMIT INFORMATION, CALL (916)-808-5454.
16. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR PRESERVING ALL EXISTING MONUMENTS THAT WILL BE DISTURBED OR REMOVED AS REQUIRED BY CONTRACTOR'S WORK. CONTRACTOR SHALL COORDINATE WITH ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OF EXISTING MONUMENTS, AND SHALL RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.

TREE PROTECTION

REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES

1. ANY REGULATED WORK(1) WORK WITHIN THE TREE PROTECTION ZONE(2) OF A CITY TREE(3) OR A PRIVATE PROTECTED TREE(4) SHALL BE SEPARATELY PERMITTED PRIOR TO THE START OF CONSTRUCTION AND SUPERVISED BY AN ISA CERTIFIED ARBORIST WHO SHALL MAKE RECOMMENDATIONS TO MINIMIZE THE IMPACT OF APPROVED WORK ON THE TREES. SUBMIT A TREE PERMIT APPLICATION TO URBANFORESTRY@CITYOFSACRAMENTO.ORG AND REFER TO THE PLANNING PROJECT NUMBER.
2. TREES TO BE PRESERVED WITHIN OR ADJACENT TO THE CONSTRUCTION AREA SHALL BE PROTECTED FROM DISTURBANCE PRIOR TO AND THROUGHOUT CONSTRUCTION BY THE FOLLOWING METHODS OR AS APPROVED BY THE CITY ARBORIST:

a. PLACE A 6-FT HIGH CHAIN LINK FENCE AT THE EDGE OF THE TPZ.
b. WHEN THE FULL TPZ CANNOT BE ENCLOSED BY CHAIN LINK FENCING, THE APPLICANT SHALL PROVIDE PROTECTION FOR THE TRUNK AND THE SOIL WITHIN THE ROOT ZONE AS APPROVED BY THE CITY ARBORIST. ACCEPTED PRACTICES ARE:
i. ADD 4-6" OF WOOD CHIP MULCH COVERED BY TRENCH PLATES OR ¾ INCH PLYWOOD ON THE GROUND WITHIN THE TPZ
ii. RETAIN ALL EXISTING SIDEWALK, DRIVEWAY OR OTHER CONCRETE THAT COVERS ROOTS OF EXISTING TREES
iii. WRAP FOAM AROUND THE TRUNK AND SECURE 2X4S VERTICALLY AROUND ALL SIDES.

3. PROTECTION MEASURES SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING LANDSCAPE INSTALLATION.
4. ANY REGULATED WORK (SEE DEFINITION BELOW) SHALL BE DIRECTLY SUPERVISED OR PERFORMED BY THE PROJECT ARBORIST WHO SHALL BE A QUALIFIED ARBORIST.
5. EXCAVATION, GRADING OR TRENCHING WITHIN THE TPZ TREE SHALL EMPLOY ONE OF THE FOLLOWING METHODS: HYDRO-EXCAVATION, PNEUMATIC EXCAVATION OR HAND DIGGING.
6. ALL STREET TREES AND PRIVATE PROTECTED TREES SHALL BE WATERED REGULARLY THROUGHOUT THE CONSTRUCTION PROCESS PER PROJECT ARBORIST'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY DAMAGE TO THE CITY TREES ASSOCIATED WITH THE PROJECT. ACCIDENTAL OR NEGLIGENT ACTIONS THAT DAMAGE CITY TREES MAY RESULT IN A PENALTY. THE MONETARY VALUE OF ANY SUCH DAMAGES WILL BE APPRAISED BY THE CITY URBAN FORESTER OR HIS AUTHORIZED REPRESENTATIVE AND SHALL BE EXPRESSED AS THE MONETARY EQUIVALENT OF ALL LABOR AND MATERIALS REQUIRED TO BRING THE TREE IN QUESTION TO A STATE OF COMPARABLE UTILITY WITH REGARDS TO ITS CONDITION AND FUNCTION PRIOR TO THE BEGINNING OF THE PROJECT.

(1) REGULATED WORK – MEANS PLANTING A CITY TREE, OR ANY ACT THAT COULD ADVERSELY IMPACT THE HEALTH OF A CITY TREE OR PRIVATE PROTECTED TREE SUCH AS PRUNING BRANCHES OR ROOTS LARGER THAN TWO INCHES IN DIAMETER, AFFIXING SIGNS, LIGHTS, OR HARDWARE, GRADING, CLEARING, EXCAVATING, ADDING FILL SOIL, TRENCHING, BORING, COMPACTING, OR PAVING WITHIN THE PROTECTION ZONE, PLACING OR STORING CONSTRUCTION EQUIPMENT OR MATERIAL, OF THE APPLICATION OF ANY HARMFUL SUBSTANCE.

(2) TREE PROTECTION ZONE – A FULL AND REGULAR CIRCLE AROUND THE TREE WITH A RADIUS THE LENGTH OF THE LONGEST HORIZONAL BRANCH OR AS SET FORTH IN A TREE PROTECTION PLAN.

(3) CITY TREE – MEANS ANY TREE THE TRUNK OF WHICH, WHEN MEASURED FOUR AND ONE-HALF FEET ABOVE GROUND, IS PARTIALLY OR COMPLETELY LOCATED IN A CITY PARK, ON REAL PROPERTY THE CITY OWNS IN FEE, OR ON A PUBLIC RIGHT-OF-WAY, INCLUDING ANY STREET, ROAD, SIDEWALK, PARK STRIP, MOW STRIP, OR ALLEY.

(4) PRIVATE PROTECTED TREE MEANS:

A. A TREE THAT IS DESIGNATED BY CITY COUNCIL RESOLUTION TO HAVE SPECIAL HISTORICAL VALUE, SPECIAL ENVIRONMENTAL VALUE, OR SIGNIFICANT COMMUNITY BENEFIT, AND IS LOCATED ON PRIVATE PROPERTY;
B. ANY NATIVE VALLEY OAK (QUERCUS LOBATA), BLUE OAK (QUERCUS DOUGLASII), INTERIOR LIVE OAK (QUERCUS WISLIZENII), COAST LIVE OAK (QUERCUS AGRIFOLIA), CALIFORNIA BUCKEYE (AESCULUS CALIFORNICA), OR CALIFORNIA SYCAMORE (PLATANUS RACEMOSA), THAT HAS A DSH OF TWELVE (12) INCHES OR MORE, AND IS LOCATED ON PRIVATE PROPERTY;
C. A TREE THAT HAS A DSH OF TWENTY-FOUR (24) INCHES OR MORE LOCATED ON PRIVATE PROPERTY THAT:
   1. IS AN UNDEVELOPED LOT; OR
   2. DOES NOT INCLUDE ANY SINGLE UNIT OR DUPLEX DWELLINGS; OR
D. A TREE THAT HAS A DSH OF THIRTY-TWO (32) INCHES OR MORE LOCATED ON PRIVATE PROPERTY THAT INCLUDES ANY SINGLE UNIT OR DUPLEX DWELLINGS.

STANDARD ABBREVIATIONS

AB	—	AGGREGATE BASE
AC	—	ASPHALT CONCRETE
AP	—	ANGLE POINT
AVE	—	AVENUE
ARV	—	AIR RELEASE VALVE
BLDG	—	BUILDING
BC	—	BEGIN CURVE
BFFR	—	BUFFER
BFP	—	BACKFLOW PREVENTER
BOL	—	BOLLARD
BOC	—	BACK OF CURB
BSW/BW	—	BACK OF SIDEWALK
CAB	—	CABINET
C&G	—	CURB AND GUTTER
CG&S	—	CURB, GUTTER AND SIDEWALK
CL / ℄	—	CENTER LINE
CMP	—	CORROGATED METAL PIPE
CO	—	CLEANOUT
C/CONC	—	CONCRETE
CLNK	—	CHAINLINK
CONST	—	CONSTRUCT
CTV	—	CABLE TV
CR	—	CURB RAMP
CS	—	COMBINATION SYSTEM
CSMH	—	COMBINATION SYSTEM MH
CUT	—	CUTLINE
DB	—	DITCH BOX
DI	—	DROP INLET
DRWY/DWY	—	DRIVEWAY
DTL	—	DETAIL
DWG	—	DRAWING
E/ELECT	—	ELECTRICAL
EC	—	END CURVE
EG	—	EXISTING GRADE
EL/ELEV	—	ELEVATION
EP/EOP	—	EDGE OF PAVEMENT
EMH	—	ELECTRIC MANHOLE
EPB	—	ELECTRIC PULL BOX
ESA	—	ENVIRONMENTALLY SENSITIVE AREA
EX/EXIST	—	EXISTING
FDC	—	FIRE DEPARTMENT CONNECTION
FH	—	FIRE HYDRANT
FL	—	FLOW LINE
FM	—	FORCE MAIN
FOPB	—	FIBER OPTIC PULL BOX
FOC	—	FACE OF CURB
FSW	—	FRONT OF SIDEWALK
G	—	GAS
GA	—	GUY ANCHOR
GB	—	GRADE BREAK
GD	—	GUTTER DRAIN
GM	—	GAS METER
GV	—	GAS VALVE
HP	—	HIGH POINT
IRV	—	IRRIGATION VALVE
JP	—	JOINT POLE
LF	—	LINEAR FEET
LIP/LG	—	LIP OF GUTTER
LP	—	LOW POINT
LT	—	LEFT
MB	—	MAIL BOX
MH	—	MAINTENANCE HOLE
MFR'S	—	MANUFACTURE'S
MAX, MIN	—	MAXIMUM, MINIMUM
MPB	—	MISCELLANEOUS PULL BOX
N/A	—	NOT APPLICABLE
No.. #	—	NUMBER
N.T.S.	—	NOT TO SCALE
P	—	PAVEMENT
PB	—	PULL BOX
PG	—	PROFILE GRADE
PI	—	POINT OF INTERSECTION
PL	—	PROPERTY LINE
PP	—	POWER POLE
PCC	—	PORTLAND CEMENT CONCRETE
PRC	—	POINT OF RETURN CURVE
(P)/PROP	—	PROPOSED
PM	—	PARKING METER
PTEC	—	PERMIT TO ENTER CERTIFICATION
PVC	—	POLY VINYL CHLORIDE
R	—	RADIUS
RCP	—	REINFORCED CONC. PIPE
RP	—	RADIUS POINT
RT	—	RIGHT
R/W, ROW	—	RIGHT-OF-WAY
S =	—	SLOPE
SAW	—	SAWCUT
SD	—	STORM DRAIN
SDMH	—	STORM DRAIN MANHOLE
SHT	—	SHEET
SL	—	STREET LIGHT
SLPB	—	STREET LIGHT PULL BOX
SNS	—	STREET NAME SIGN
SSMH	—	SANITARY SEWER MANHOLE
SSCO	—	SANITARY SEWER CLEAN OUT
SPA	—	SPACING
SPECS	—	SPECIFICATIONS
SS	—	SANITARY SEWER
SSMH	—	SANITARY SEWER MH
ST	—	STREET
STA	—	STATION
STD	—	STANDARD
SW	—	SIDEWALK
TELE	—	TELEPHONE
TCE	—	TEMPORARY CONSTRUCTION EASEMENT
TPB	—	TELEPHONE PULL BOX
TMH	—	TELEPHONE MANHOLE
TC	—	TOP OF CURB
TOB	—	TOP OF BANK
TOE	—	TOE OF SLOPE
T.O.P.	—	TOP OF PIPE
TS	—	TRAFFIC SIGNAL
TSC	—	TRAFFIC SIGNAL CABINET
TSPB	—	TRAFFIC SIGNAL PULL BOX
TYP	—	TYPICAL
VAR	—	VARIES
W	—	WATER
W/	—	WITH
WKWY	—	WALKWAY
WM	—	WATER METER
WR	—	WATER RISER
WPB	—	WATER PULL BOX
WV	—	WATER VALVE
WVT	—	WATER VAULT

LEGEND

	EXISTING	PROPOSED
SURVEY MONUMENT/BENCH MARK	▲	⛢
UTILITY POLE	⌀	
JOINT POLE	(P)	
POLE W/ GUY WIRE & ANCHOR		
CENTERLINE		25+00
SAWCUT		
TOP OF EMBANKMENT		
TOE OF EMBANKMENT		
STORM DRAIN	X"SD"	
SANITARY SEWER	X"SS"	
WATER	X" W"	
RECYCLED WATER	X" RW"	
GAS	GS	GS
OVERHEAD COMMUNICATIONS	T (OH) T (OH)	
OVERHEAD ELECTRIC	E (OH) E (OH)	
TRAFFIC SIGNAL/FIBER OPTIC	TS/FO	
WOODEN FENCE		
METAL FENCE		
CHAINLINK FENCE		
PROPERTY LINE		
TEMPORARY CONSTRUCTION EASMENT		
PERMIT TO ENTER CERTIFICATION		
EASEMENT		
RIGHT OF WAY		
SPOT ELEVATION	x225.0	
DITCH FLOWLINE		
FIRE HYDRANT		
WATER VALVE	W	
BACK FLOW DEVICE	BFD	
POST INDICATOR VALVE	⊗	
WATER SERVICE METER	□	■
BOLLARD	●	
BORING HOLE LOCATION		
TRAFFIC SIGN/SIGN		
AC DIKE		
GUARDRAIL		
ASSESSOR'S PARCEL NO.	25-025-254	
EXISTING TREE WELL		
EXISTING BUILDING		
COMMUNICATION MANHOLE	C	
STORM DRAIN MANHOLE	D	D
SEWER MANHOLE	S	
WATER MANHOLE	W	
ELECTRICAL MANHOLE	E	
TELEPHONE MANHOLE	T	
MANHOLE		
STREET LIGHT		
SANITARY SEWER CLEAN OUT		
STORM DRAIN AREA DRAIN/CURB INLET		
GAS UTILITY BOX	G	
GAS METER	GM	
UTILITY BOX	U	
WATER METER	W	
IRRIGATION VALVE	I	
MAILBOX	M	
AIR RELEASE VALVE		
TREE		

CAD FILE: XREFS: BOR-2A3019_A1_22x34 | PE STAMP_JR
File Name: P:\Proj\2A3019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\2A3019_02 - G-1 - GENERAL NOTES.dwg

REGISTERED PROFESSIONAL ENGINEER — LEONARDO M. RUBIO — NO. 56895 — CIVIL — STATE OF CALIFORNIA

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: N/A
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE — DATE MARCH 2026
DESIGN BY: C.ALLEN — R.C.E. No. 76694 DATE MARCH 2026
CHECKED BY: L.RUBIO — R.C.E. No. 56895 DATE MARCH 2026

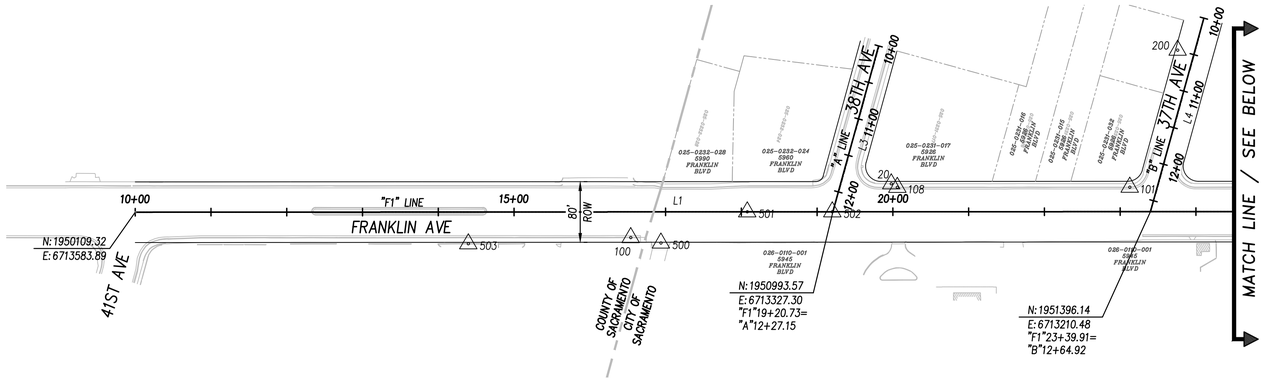
BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

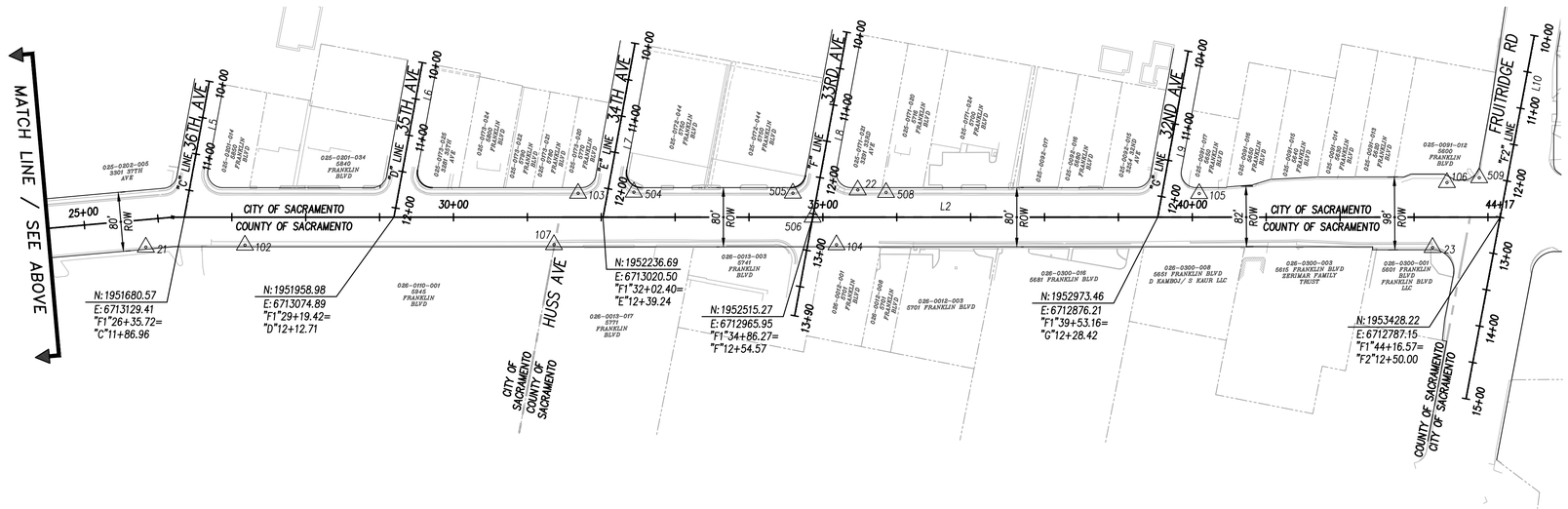
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GENERAL NOTES

T15165503

DWG. NO. G-1
SHEET 2 OF 95





CONTROL POINT TABLE

#	Elevation	Northing	Easting	Description
20	25.98	1951057.29	6713270.47	CP X
21	27.58	1951637.26	6713179.24	CP X
22	25.43	1952567.89	6712918.11	CP X
23	25.67	1953346.38	6712844.93	CP X
100	25.84	1950746.76	6713434.32	CP CUT X ON CURB
101	25.72	1951360.92	6713187.24	CP CUT X ON CURB
102	28.20	1951768.37	6713150.77	CP CUT X AT BACK OF WALK
103	25.48	1952197.36	6712995.27	CP CUT X ON CURB
104	26.30	1952553.95	6712996.38	CP RBR W/ UNICO TAG
105	25.62	1953022.30	6712833.98	CP CUT X ON CURB
106	26.18	1953348.57	6712755.08	CP CUT X ON CURB
107	26.02	1952178.72	6713069.74	CP CUT X AT BACK OF WALK
108	25.79	1951066.36	6713272.65	CP CUT X ON CURB
200	25.06	1951371.32	6712995.87	CP CUT X BASE POINT
500	26.04	1950787.02	6713429.99	FD 1
501	26.46	1950885.06	6713358.84	FD SAC CO N+W
502	26.44	1950992.89	6713327.54	FD CNAIL
503	26.45	1950543.13	6713501.74	FD N+T LS2457
504	25.57	1952271.14	6712979.33	FD X ON CURB
505	25.42	1952482.64	6712939.26	FD X ON CURB
506	26.44	1952515.03	6712966.01	FD PK NAIL
508	25.38	1952606.19	6712913.94	FD IRON PIPE
509	25.91	1953390.16	6712740.28	FD X ON CURB

LINE TABLE

Line #	Length	Bearing
L1	1619.85'	N16°10'54"W
L2	1796.72'	N11°04'50"W
L3	227.15'	N89°17'06"E
L4	264.92'	N89°17'06"E
L5	186.96'	N89°21'18"E
L6	212.71'	N89°21'18"E
L7	239.24'	N89°21'10"E
L8	390.23'	N89°21'10"E
L9	228.42'	N89°21'10"E
L10	500.00'	N89°34'53"E

BASIS OF BEARING

NAD 83, CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 2, EPOCH 2010.00, AS DETERMINED BY TIES TO LOCAL NGS CONTROL POINTS. DISTANCES SHOWN GROUND DISTANCES.

VERTICAL CONTROL

NAVD88 AS DETERMINED BY TIES TO LOCAL NGS CONTROL POINT PID JS3901, ELEVATION 38.80'. RAISE ELEVATIONS +0.28' TO ATTAIN CITY OF SACRAMENTO NAVD88 ELEVATIONS AT CITY BM 337-F3B.

DATUM NOTE

DATUM IS IDENTICAL TO RECORD OF SURVEY 63-29 "CITY OF SACRAMENTO - GPS STATIC SURVEY" AS ADJUSTED TO CITY OF SACRAMENTO CONTROL STATIONS HPGN D CA CSUS, G3006 AND G3104. CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE II, 1997.30 EPOCH.

BENCHMARK NOTE

CITY OF SACRAMENTO BM 317-F4B. HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

LEGEND:

CONTROL POINT △#
RIGHT-OF-WAY
CONSTRUCTION CENTER LINE
EASEMENT
PROPERTY LINE

100 0 100 200
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
EDCADIO RUBIO
NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B. HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=100'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
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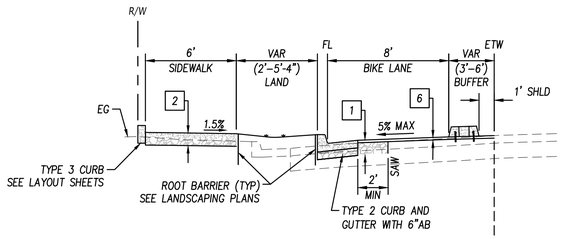
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

SURVEY CONTROL

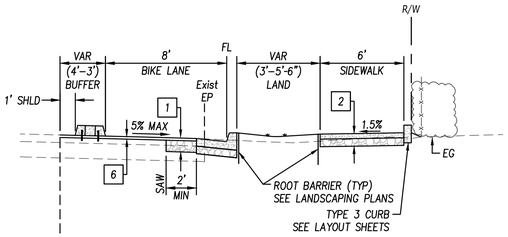
T15165503
DWG. NO. SC-1
SHEET 3 OF 95

PLOT STAMP: Login Name: lamnedoe
Plot Date: July 02, 2026 - 4:00 pm

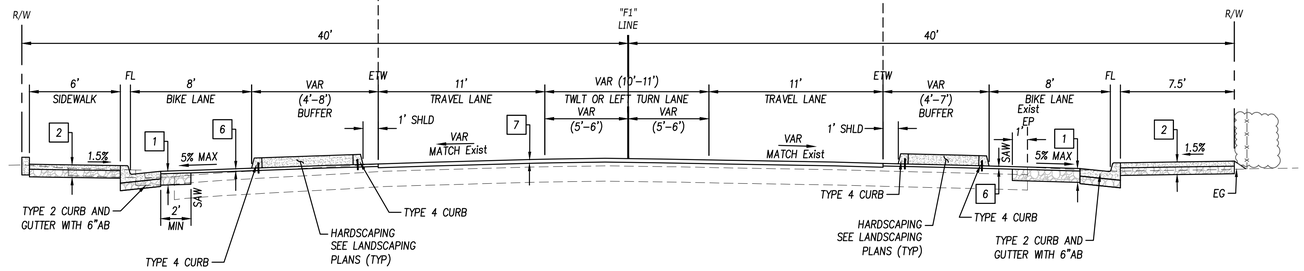
CAD FILE: XREFS: BBR-24301R_H_22x34 | 24301R_XR-TOPO | 24301R_XR-SITE | 24301R_XR-XPH | PE STAMP_LR | 24301R_XR-BASEMAP
File Name: P:\Proj\24301R-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\24301R_03 - SC-1 - SURVEY CONTROL.dwg



STA "F1" 24+30 to STA "F1" 25+60
STA "F1" 20+75 to STA "F1" 22+75

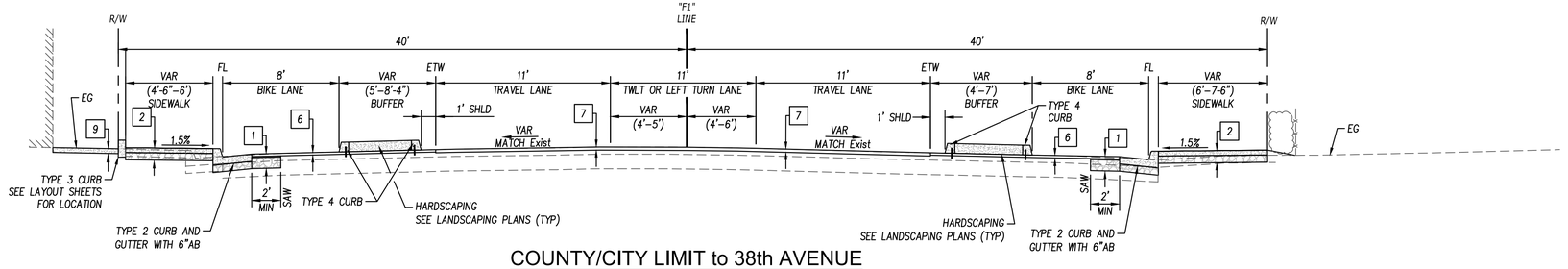


STA "F1" 20+30 to STA "F1" 25+40



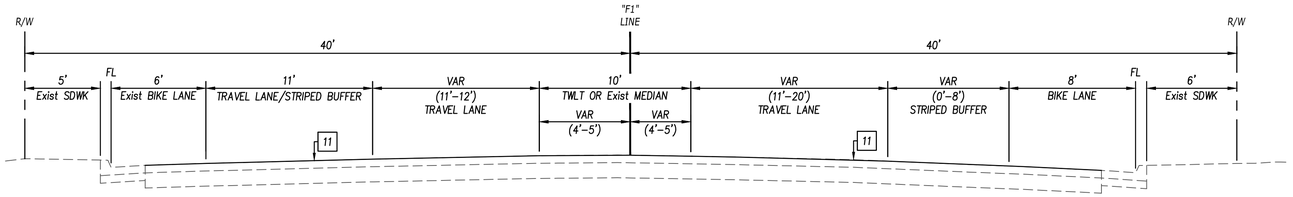
38th AVENUE to 36th AVENUE

STA "F1" 19+00 TO STA "F1" 26+35



COUNTY/CITY LIMIT to 38th AVENUE

STA "F1" 16+75 TO STA "F1" 19+00



41st AVENUE to COUNTY/CITY LIMIT

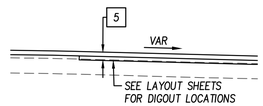
STA "F1" 10+43 TO STA "F1" 16+75

CROSS SECTION NOTES:

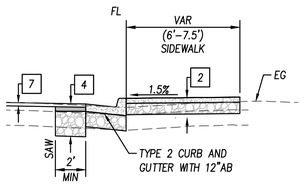
1. 3" HMA
   9" CLASS II AB
2. 4" PCC
   6" CLASS II AB
3. NOT USED
4. 4" HMA
   14" CLASS II AB
5. 2" – 3.5" HMA OVERLAY
   2.5" – 4" HMA (6" DIGOUT)
6. 2" COLD PLANE
   2" HMA
7. 3.5" COLD PLANE
   3.5" HMA
8. 2.5" HMA OVERLAY
   5.5" HMA
9. 4" CONFORM (MATCH Exist MATERIAL TYPE)
10. MICROSURFACING
11. SLURRY SEAL

NOTES:

1. TYPICAL SECTIONS SHALL BE COORDINATED WITH LAYOUT AND GRADING PLANS. IF THERE ARE DISCREPENCIES BETWEEN THE LIMITS OF WORK SHOWN ON THE TYPICAL SECTIONS AND GRADING PLANS, THE GRADING PLANS WILL GOVERN.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. REFER TO SIGNAGE AND STRIPING PLANS FOR LANE STRIPING.
4. REFER TO GRADING PLANS FOR SPECIFIC GRADING DETAILS.
5. REFER TO LAYOUT PLAN AND PROFILE SHEETS FOR FLOWLINE DETAILS.
6. AT SAWCUT LOCATIONS, THE TOP LIFT OF HMA SHALL BE CONSTRUCTED AT THE END OF THE PROJECT AS HMA OVERLAY.



1 DIGOUT DETAIL
SCALE: N.T.S.



2 INTERSECTION DETAIL
SCALE: N.T.S.

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: NTS
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE MARCH 2026
DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE MARCH 2026
CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE MARCH 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

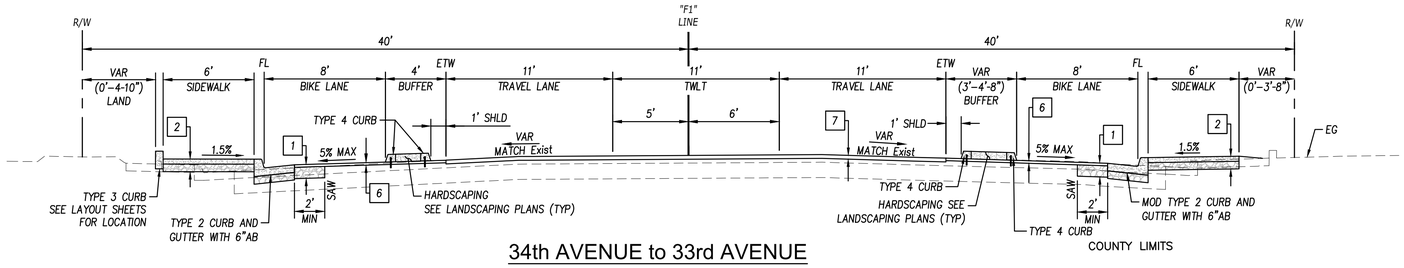
TYPICAL SECTIONS

T15165503

DWG. NO. X-1
SHEET 4 OF 95

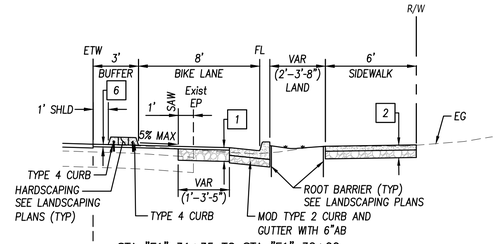
PLOT STAMP: Login Name: lamnester, Plot Date: July 02, 2026 - 4:15 pm

CAD FILE: (SHEETS: BBR-24J019_H_22x34 | 24J019_JR-SITE | 24J019_JR-STRIP | 24J019_JR-TOPO | 24J019_JR-BASEMAP | PE STAMP_LR | 24J019_JR-HATCH File Name: P:\Proj\24J019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\24J019_A1 or X-1 - TYPICAL SECTIONS.dwg

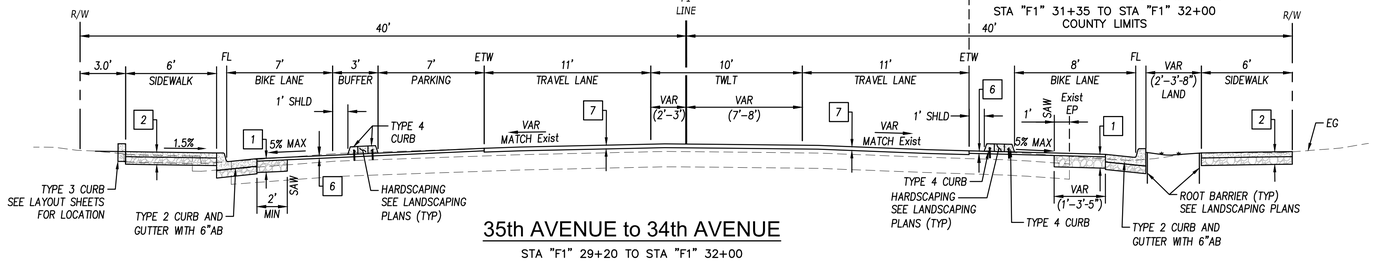


34th AVENUE to 33rd AVENUE

STA "F1" 32+00 TO STA "F1" 34+85

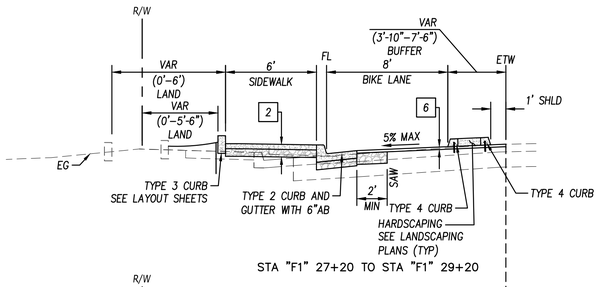


STA "F1" 31+35 TO STA "F1" 32+00
COUNTY LIMITS

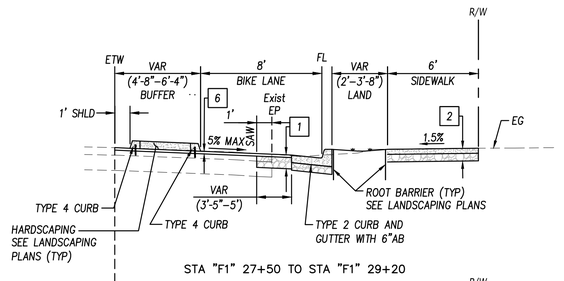


35th AVENUE to 34th AVENUE

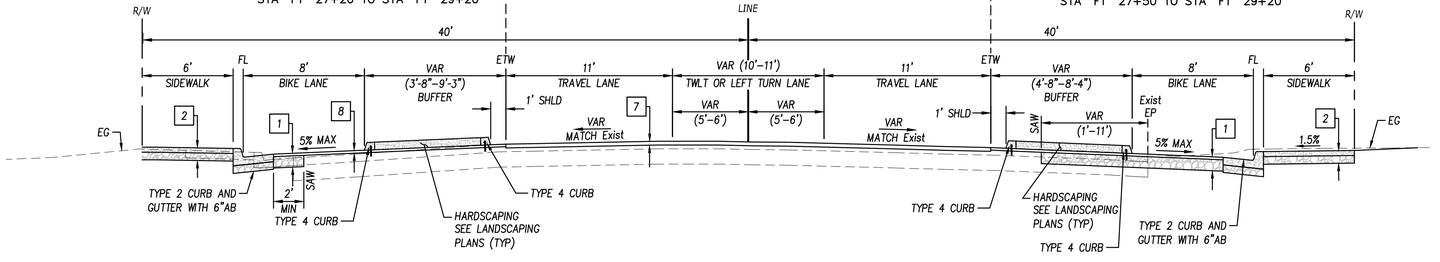
STA "F1" 29+20 TO STA "F1" 32+00



STA "F1" 27+20 TO STA "F1" 29+20



STA "F1" 27+50 TO STA "F1" 29+20



36th AVENUE to 35th AVENUE

STA "F1" 26+35 TO STA "F1" 29+20

CROSS SECTION NOTES:

1. 3" HMA
   9" CLASS II AB
2. 4" PCC
   6" CLASS II AB
3. NOT USED
4. 4" HMA
   14" CLASS II AB
5. 2" – 3.5" HMA OVERLAY
   2.5" – 4" HMA (6" DIGOUT)
6. 2" COLD PLANE
   2" HMA
7. 3.5" COLD PLANE
   3.5" HMA
8. 2.5" HMA OVERLAY
   5.5" HMA
9. 4" CONFORM (MATCH Exist MATERIAL TYPE)
10. MICROSURFACING
11. SLURRY SEAL

NOTES:

1. TYPICAL SECTIONS SHALL BE COORDINATED WITH LAYOUT AND GRADING PLANS. IF THERE ARE DISCREPENCIES BETWEEN THE LIMITS OF WORK SHOWN ON THE TYPICAL SECTIONS AND GRADING PLANS, THE GRADING PLANS WILL GOVERN.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. REFER TO SIGNAGE AND STRIPING PLANS FOR LANE STRIPING.
4. REFER TO GRADING PLANS FOR SPECIFIC GRADING DETAILS.
5. REFER TO LAYOUT PLAN AND PROFILE SHEETS FOR FLOWLINE DETAILS.
6. AT SAWCUT LOCATIONS, THE TOP LIFT OF HMA SHALL BE CONSTRUCTED AT THE END OF THE PROJECT AS HMA OVERLAY.

PLOT STAMP: Login Name: lamendez, Plot Date: July 02, 2026 - 4:15 pm

CAD FILE: XREFS: BGR-2A3019_J1_22x34 | 2A3019_JR-SITE | 2A3019_JR-STRP | 2A3019_JR-TOPO | 2A3019_JR-BASEMAP | PE STAMP_LR | 2A3019_JR-HATCH

File Name: P:\Proj\2A3019-Sacramento-Franklin Blvd Phase 3\11-AP-ANS\MASTERS\SHEETS\2A3019_04 - X-1 - TYPICAL SECTIONS.dwg

NOT FOR CONSTRUCTION
60% SUBMITTAL
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: NTS
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE MARCH 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE MARCH 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE MARCH 2026

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

TYPICAL SECTIONS

T15165503

DWG. NO. X-2
SHEET 5 OF 95

PLOT STAMP: Login Name: lamnedoe, Plot Date: July 02, 2026 - 4:15 pm

CAD FILE: JOBS: BBR-24019_H_22x34 | 24019_XR-SITE | 24019_XR-STRIP | 24019_XR-TOPO | 24019_XR-BASEMAP | PE STAMP_LR | 24019_XR-HATCH
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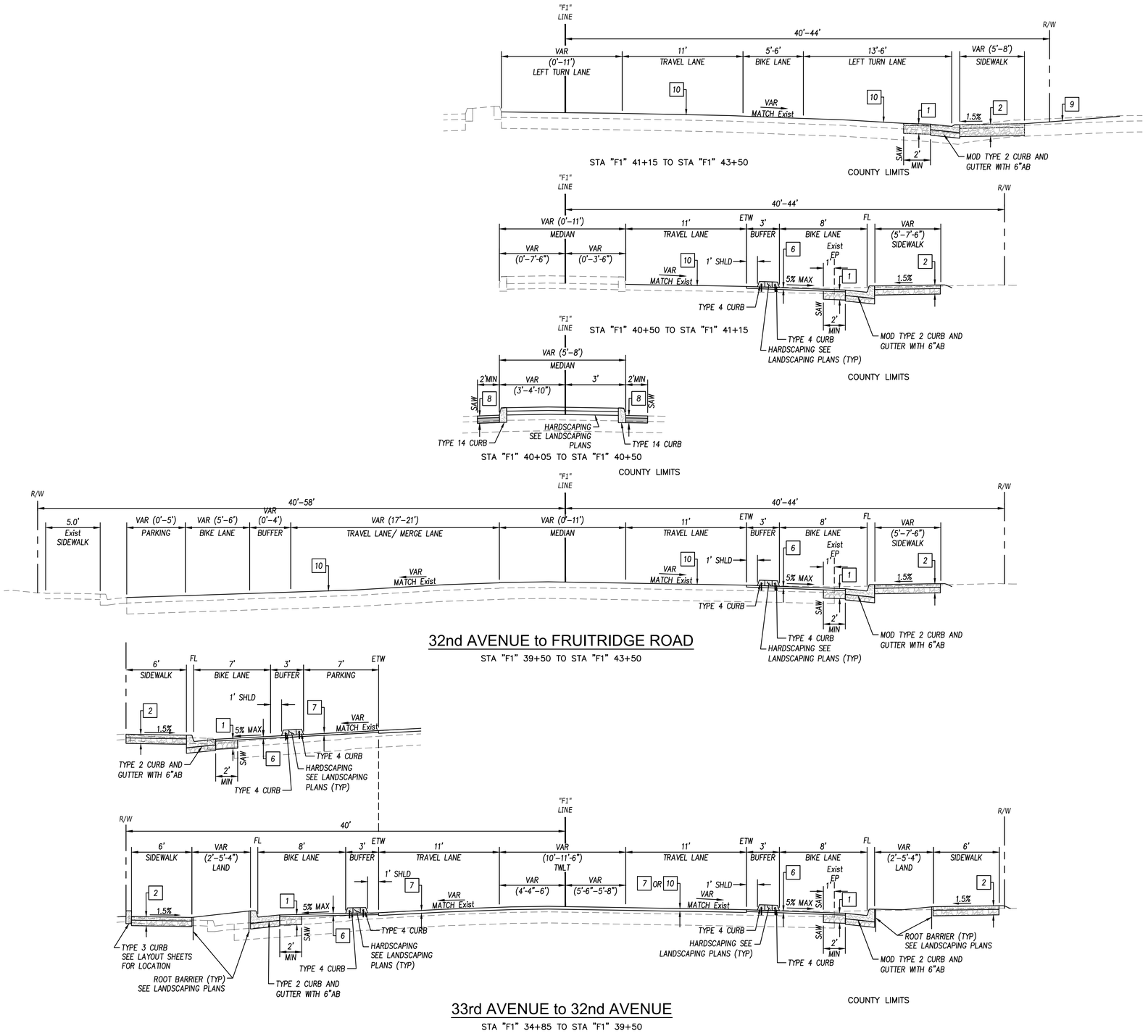

CROSS SECTION NOTES:

1. 3" HMA
   9" CLASS II AB
2. 4" PCC
   6" CLASS II AB
3. NOT USED
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6. 2" COLD PLANE
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   3.5" HMA
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NOTES:

1. TYPICAL SECTIONS SHALL BE COORDINATED WITH LAYOUT AND GRADING PLANS. IF THERE ARE DISCREPENCIES BETWEEN THE LIMITS OF WORK SHOWN ON THE TYPICAL SECTIONS AND GRADING PLANS, THE GRADING PLANS WILL GOVERN.
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3. REFER TO SIGNAGE AND STRIPING PLANS FOR LANE STRIPING.
4. REFER TO GRADING PLANS FOR SPECIFIC GRADING DETAILS.
5. REFER TO LAYOUT PLAN AND PROFILE SHEETS FOR FLOWLINE DETAILS.
6. AT SAWCUT LOCATIONS, THE TOP LIFT OF HMA SHALL BE CONSTRUCTED AT THE END OF THE PROJECT AS HMA OVERLAY.

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: NTS
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE MARCH 2026
DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE MARCH 2026
CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE MARCH 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

TYPICAL SECTIONS

T15165503

DWG. NO. X-3
SHEET 6 OF 95

REGISTERED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

PLOT STAMP: Login Name: kamcelar, Plot Date: July 02, 2026 - 4:15 pm

CAD FILE: XREFS: BBR-243019_H_22x34 | 243019_XR-SITE | 243019_XR-BASEMAP | 243019_XR-APN | 243019_XR-DEMO HATCH | 243019_XR-UTIL | 243019_XR-TOPO | PE STAMP_LR

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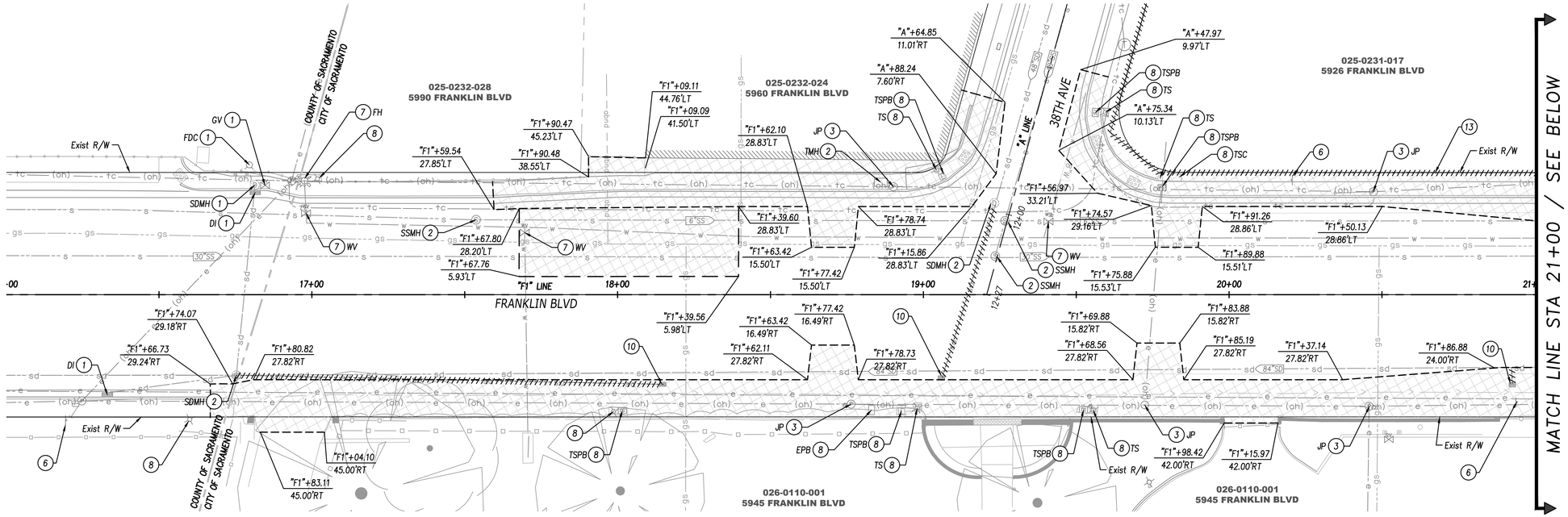
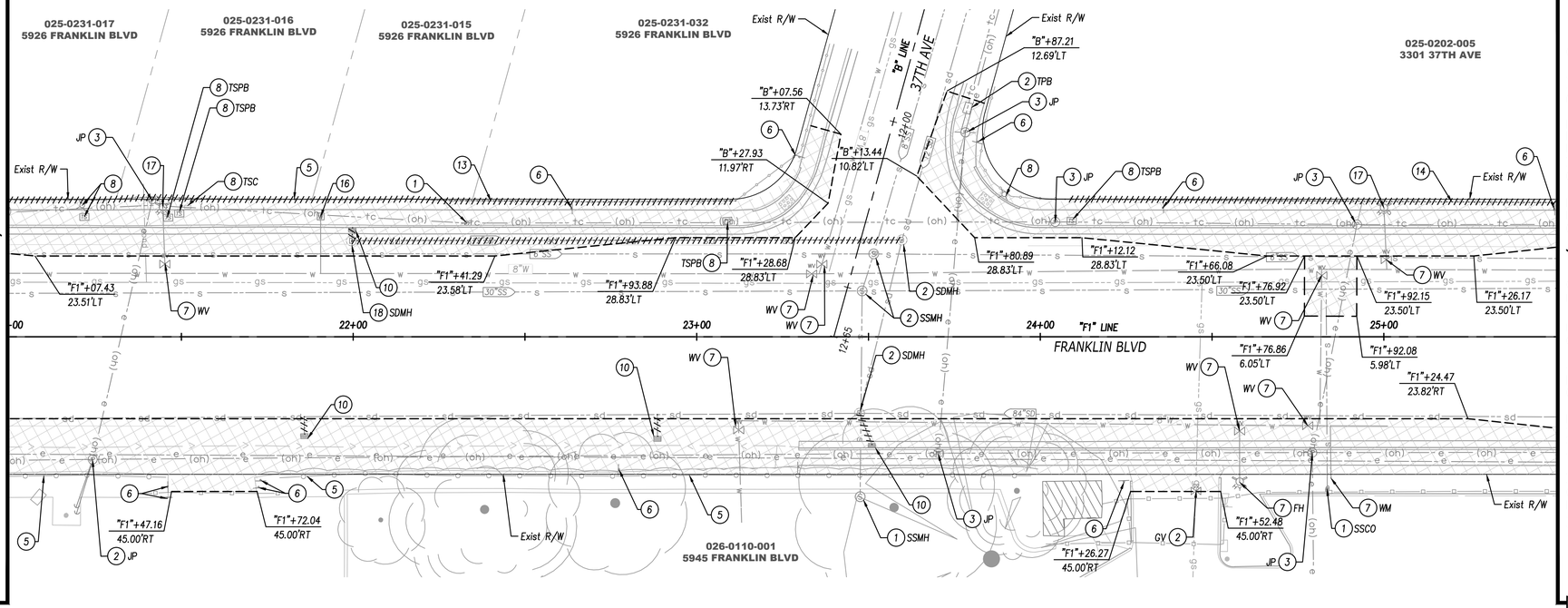




DEMOLITION NOTES:

1. PROTECT UTILITY/STRUCTURE IN PLACE
2. RELOCATE/ADJUST UTILITY/STRUCTURE, SEE LAYOUT SHEETS
3. RELOCATE/ADJUST UTILITY/STRUCTURE, BY OTHERS
4. PROTECT TREE IN PLACE
5. PROTECT FENCE/GATE IN PLACE
6. FOR ROADSIDE SIGN WORK, SEE PAVEMENT SIGNAGE AND STRIPING PLANS
7. WATER UTILITY/STRUCTURE, SEE WATER SHEETS
8. FOR ELECTRICAL WORK, SEE ELECTRICAL SHEETS
9. REMOVE WALL
10. REMOVE DRAIN INLET
11. REMOVE CONCRETE FOUNDATION
12. REMOVE BOLLARD
13. FENCE TO BE REMOVED BY OTHERS
14. RELOCATE FENCE/GATE, SEE LAYOUT SHEETS
15. REMOVE FENCE
16. REMOVE WATER METER AND SERVICE, SEE WATER SHEETS
17. REMOVE FIRE HYDRANT ASSEMBLY, SEE WATER SHEETS
18. REMOVE STORMDRAIN MANHOLE
19. REMOVE IRRIGATION VALVE

DEMOLITION LEGEND

- AREA OF DISTURBANCE: REMOVE AC PAVEMENT, CURB, GUTTER, SIDEWALK, AND/OR LANDSCAPE
- SAWCUT
- REMOVE/RELOCATE
- REMOVE TREE/STUMP

NOTES:

1. STATIONING REFERS TO "F1" LINE UNLESS NOTED OTHERWISE.
2. ALL PAVEMENT STRIPES AND MARKINGS SHALL BE REMOVED WITHIN COLD PLANE AND OVERLAY LIMITS PRIOR TO COLD PLANNING OPERATIONS.
3. CONTRACTOR SHALL CAP AND REPLACE IRRIGATION DAMAGED DURING DEMOLITION.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL TEMPORARY SIGNAGE.
5. FOR ELECTRICAL REMOVAL/ABANDONMENT, SEE ELECTRICAL SHEETS.
6. FOR RIGHT OF WAY INFORMATION CONTACT THE CITY.
7. FOR UTILITY DATA, SEE LAYOUT SHEETS.
8. FOR IRRIGATION DEMOLITION, SEE IRRIGATION SHEETS.
9. FOR WATER DEMOLITION/RELOCATION, SEE WATER SHEETS.

SCALE IN FEET: 20 0 20 40

LEONARDO ALBERTO RUBIO — NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: ######
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE MARCH 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE MARCH 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE MARCH 2026

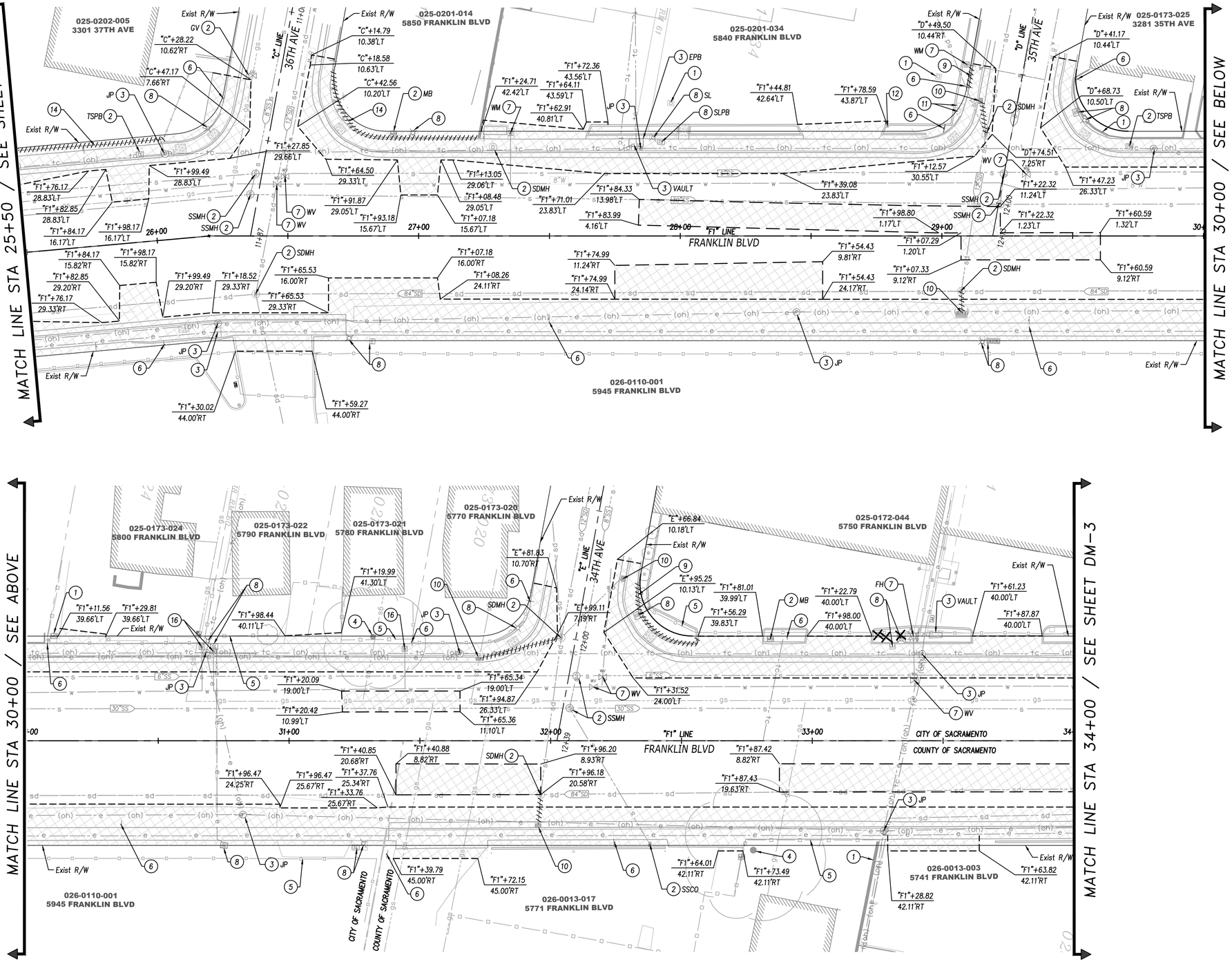
BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

DEMOLITION PLAN
STA 16+00 to STA 25+50

T15165503

DWG. NO. DM-1
SHEET 7 OF 95



DEMOLITION NOTES:

1. PROTECT UTILITY/STRUCTURE IN PLACE
2. RELOCATE/ADJUST UTILITY/STRUCTURE, SEE LAYOUT SHEETS
3. RELOCATE/ADJUST UTILITY/STRUCTURE, BY OTHERS
4. PROTECT TREE IN PLACE
5. PROTECT FENCE/GATE IN PLACE
6. FOR ROADSIDE SIGN WORK, SEE PAVEMENT SIGNAGE AND STRIPING PLANS
7. WATER UTILITY/STRUCTURE, SEE WATER SHEETS
8. FOR ELECTRICAL WORK, SEE ELECTRICAL SHEETS
9. REMOVE WALL
10. REMOVE DRAIN INLET
11. REMOVE CONCRETE FOUNDATION
12. REMOVE BOLLARD
13. FENCE TO BE REMOVED BY OTHERS
14. RELOCATE FENCE/GATE, SEE LAYOUT SHEETS
15. REMOVE FENCE
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17. REMOVE FIRE HYDRANT ASSEMBLY, SEE WATER SHEETS
18. REMOVE STORMDRAIN MANHOLE
19. REMOVE IRRIGATION VALVE

DEMOLITION LEGEND

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- SAWCUT
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NOTES:

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7. FOR UTILITY DATA, SEE LAYOUT SHEETS.
8. FOR IRRIGATION DEMOLITION, SEE IRRIGATION SHEETS.
9. FOR WATER DEMOLITION/RELOCATION, SEE WATER SHEETS.

20 0 20 40
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REGISTERED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

DEMOLITION PLAN
STA 25+50 to STA 34+00

T15165503
DWG. NO. DM-2
SHEET 8 OF 95

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PLOT STAMP: Login Name: lamcelan
Plot Date: July 02, 2026 - 4:16 pm

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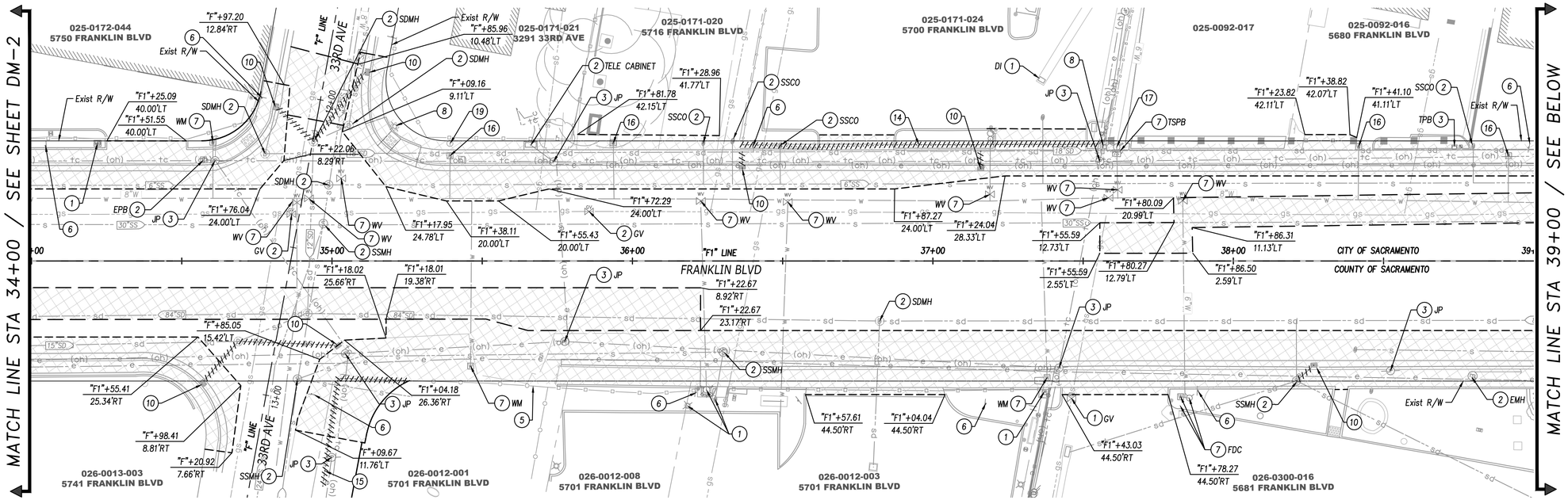

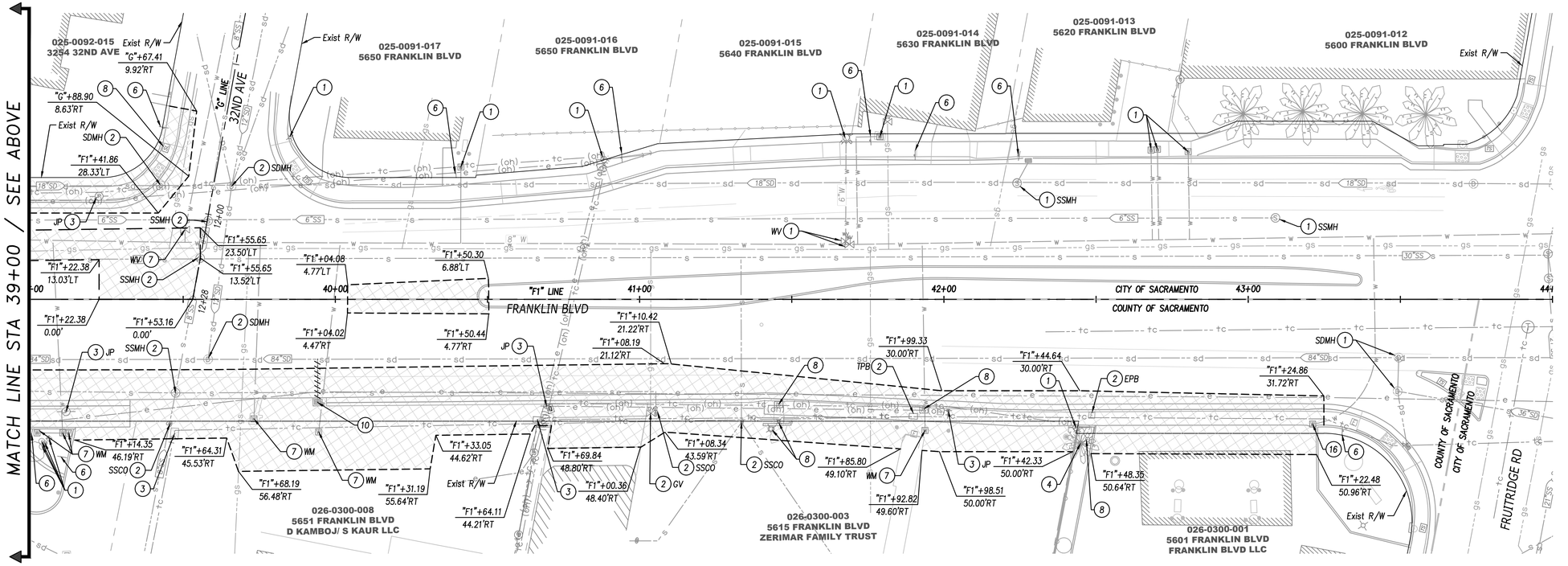

DEMOLITION NOTES:

1. PROTECT UTILITY/STRUCTURE IN PLACE
2. RELOCATE/ADJUST UTILITY/STRUCTURE, SEE LAYOUT SHEETS
3. RELOCATE/ADJUST UTILITY/STRUCTURE, BY OTHERS
4. PROTECT TREE IN PLACE
5. PROTECT FENCE/GATE IN PLACE
6. FOR ROADSIDE SIGN WORK, SEE PAVEMENT SIGNAGE AND STRIPING PLANS
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19. REMOVE IRRIGATION VALVE

DEMOLITION LEGEND

- AREA OF DISTURBANCE: REMOVE AC PAVEMENT, CURB, GUTTER, SIDEWALK, AND/OR LANDSCAPE
- SAWCUT
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NOTES:

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8. FOR IRRIGATION DEMOLITION, SEE IRRIGATION SHEETS.
9. FOR WATER DEMOLITION/RELOCATION, SEE WATER SHEETS.

20 0 20 40
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE JULY 2026

DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026

CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

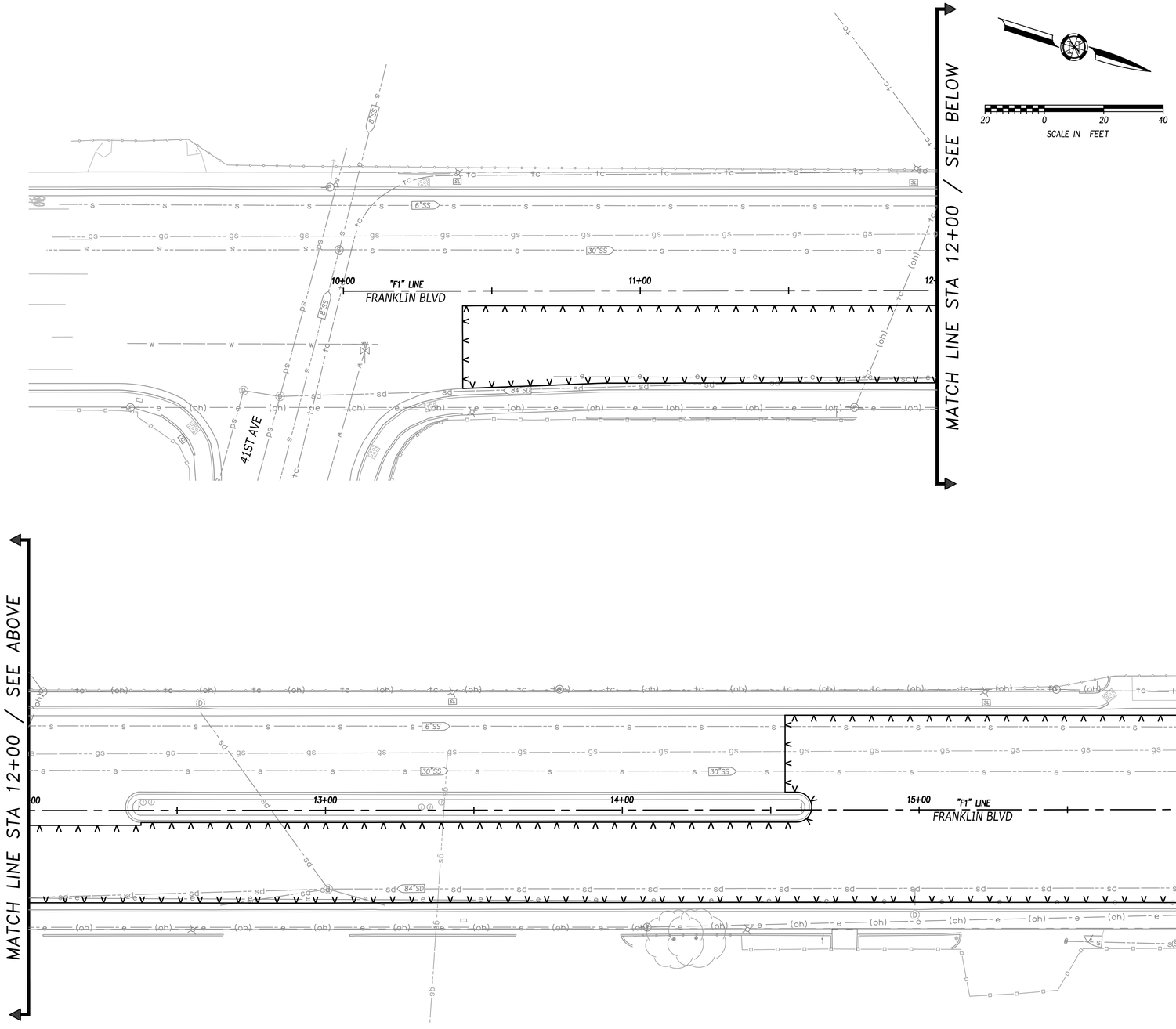
BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

DEMOLITION PLAN
STA 34+00 to STA 44+00

T15165503

DWG. NO. DM-3
SHEET 9 OF 95



LAYOUT NOTES:

1. PROTECT IN PLACE
2. MANHOLE FRAME AND COVER, ADJUST TO GRADE
3. MANHOLE FRAME AND COVER, ADJUST TO GRADE BY OTHERS
4. UTILITY STRUCTURE, ADJUST TO GRADE BY OTHERS
5. SEWER CLEAN OUT BOX, ADJUST TO GRADE
6. GAS VALVE, ADJUST TO GRADE
7. INSTALL DITCH BOX PER CITY STD DWG S-30
8. JOINT POLE, TO BE RELOCATED BY OTHERS
9. UTILITY STRUCTURE, TO BE RELOCATED BY OTHERS
10. CONSTRUCT CURB PER CITY STD DWG T-11
11. CONSTRUCT CURB PER COUNTY STD DWG 4-30
12. CONSTRUCT CURB NOTCH, SEE DTL 2 SHT D-1
13. CONSTRUCT 2-FOOT MEDIAN OPENING
14. CONSTRUCT PLANTER STRIP DRIVEWAY PER CITY STD DWG T-22
15. CONSTRUCT SIDEWALK DRIVEWAY PER CITY STD DWG T-21
16. CONSTRUCT TYPE A DRIVEWAY PER COUNTY STD DWG 4-35
17. CONSTRUCT TYPE A DRIVEWAY PER COUNTY STD DWG 4-A-35
18. CONSTRUCT CURB RAMP WITH TRUNCATED DOME TILES PER CITY STD DWG T-71, T-78 & T-79
19. CONSTRUCT CURB RAMP WITH TRUNCATED DOME TILES PER COUNTY STD DWG 4-49, 4-50 & 4-51
20. INSTALL DETECTABLE WARNING SURFACE PER CITY STD DWG T-79
21. TRANSITION FROM VERTICAL CURB TO ROLLED CURB, SEE DTL 1 SHT D-1
22. ELECTRICAL STRUCTURE, SEE ELECTRICAL SHEETS
23. PROPERTY OWNER FENCE, TO BE RELOCATED
24. PROPERTY OWNER GATE, TO BE RELOCATED. RESET GATE TRACK.
25. MAILBOX, TO BE RELOCATED
26. INSTALL TYPE B DRAIN INLET PER CITY STD DWG S-10
27. MODIFY MANHOLE, SEE DRAINAGE PROFILE SHEETS
28. CONSTRUCT MODIFIED DUAL PAN CURB RAMP WITH TRUNCATED DOME TILES, SEE GRADING SHEETS
29. CONSTRUCT MODIFIED TYPE 2 CURB AND GUTTER PER DTL 5 SHT D-1
30. CONSTRUCT MOUNTABLE CURB TYPE D-6 PER CALTRANS STD PLAN A87A
31. INSTALL TRENCH DRAIN PER DTL 7 SHT D-1
32. CONSTRUCT CURB CUT PER DTL 3 SHT D-1

NOTES:

1. CONTRACTOR TO PROTECT ALL UTILITIES IN PLACE, UNLESS OTHERWISE NOTED.
2. UTILITY INFORMATION SHOWN IS APPROXIMATE BASED ON SOURCES OF VARYING RELIABILITY. CONTRACTOR SHALL POSITION/LOCATE ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION.
3. SEE LANDSCAPE PLANS FOR REMOVAL AND RELOCATION OF ALL IRRIGATION UTILITIES.
4. SEE ELECTRICAL PLANS FOR REMOVAL AND RELOCATION OF ALL TRAFFIC SIGNAL AND STREET LIGHTING UTILITIES.
5. SEE WATER PLANS FOR ALL IMPROVEMENTS & RELOCATIONS OF WATER UTILITIES.

LEGEND:

- 3.5" GRIND / 3.5" OVERLAY
- 2" GRIND / 2" OVERLAY
- 4" CONCRETE / 6" CLASS 2 AB
- 6" CONCRETE / 6" CLASS 2 AB
- 3" HMA / 9" CLASS 2 AB
- 4" HMA / 14" CLASS 2 AB
- MICROSURFACE
- 4" HMA CONFORM
- 4" CONC CONFORM
- LANDSCAPING (SEE LANDSCAPE PLANS)
- 6" HMA (DIGOUTS)
- 8" HMA
- SLURRY SEAL
- SAWCUT

LICENSED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

PLOT STAMP: Login Name: lyamadoe, Plot Date: July 02, 2026 - 4:23 pm

CAD FILE: XREFS: BDR-243019_JL_22x34 | 243019_XR-APN | 243019_XR-UTIL | 243019_XR-TOPO | 243019_XR-MATCH | 243019_XR-BASEMAP | 243019_XR-SITE | 243019_XR-LAYOUT PROFILES | File Name: P:\Pro\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_DR - LPP-1 - LAYOUT PAP.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

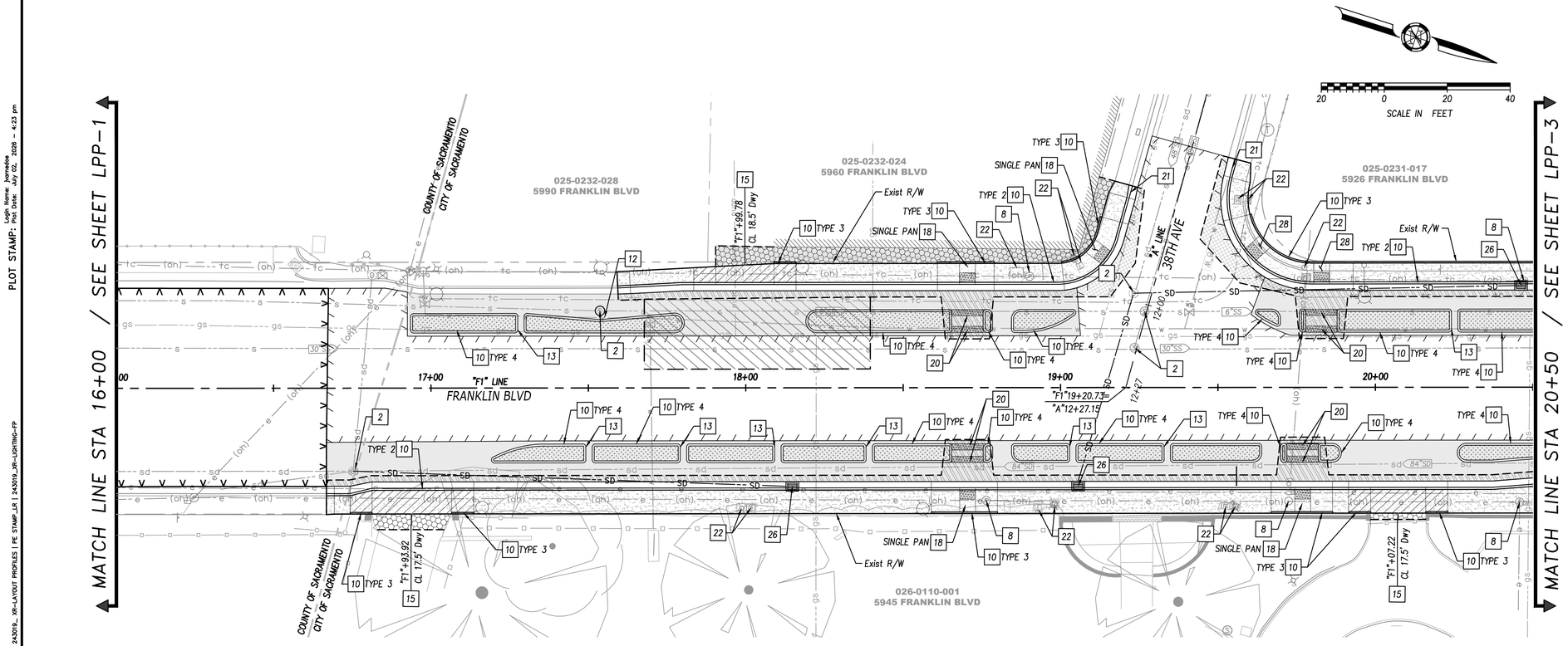
BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

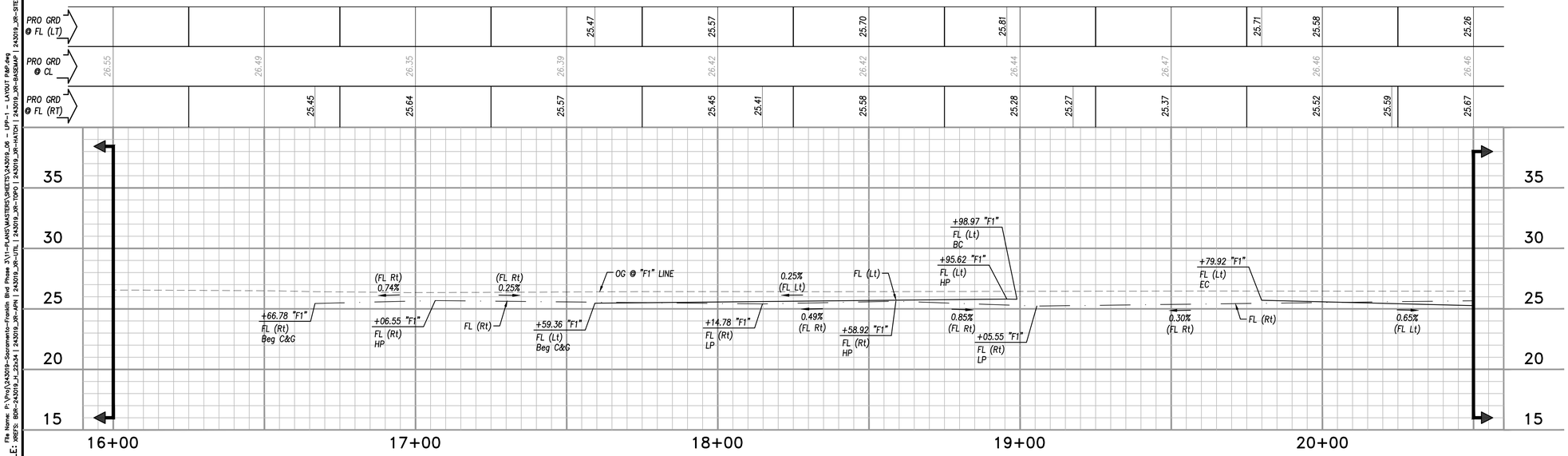
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LAYOUT PLAN
STA 10+00 to STA 16+00

T15165503

DWG. NO. LPP-1
SHEET 10 OF 95





LAYOUT NOTES:

1. PROTECT IN PLACE
2. MANHOLE FRAME AND COVER, ADJUST TO GRADE
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10. CONSTRUCT CURB PER CITY STD DWG T-11
11. CONSTRUCT CURB PER COUNTY STD DWG 4-30
12. CONSTRUCT CURB NOTCH, SEE DTL 2 SHT D-1
13. CONSTRUCT 2-FOOT MEDIAN OPENING
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22. ELECTRICAL STRUCTURE, SEE ELECTRICAL SHEETS
23. PROPERTY OWNER FENCE, TO BE RELOCATED
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27. MODIFY MANHOLE, SEE DRAINAGE PROFILE SHEETS
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30. CONSTRUCT MOUNTABLE CURB TYPE D-6 PER CALTRANS STD PLAN A87A
31. INSTALL TRENCH DRAIN PER DTL 7 SHT D-1
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- 3" HMA / 9" CLASS 2 AB
- 4" HMA / 14" CLASS 2 AB
- MICROSURFACE
- 4" HMA CONFORM
- 4" CONC CONFORM
- LANDSCAPING (SEE LANDSCAPE PLANS)
- 6" HMA (DIGOUTS)
- 8" HMA
- SLURRY SEAL
- SAWCUT

REGISTERED PROFESSIONAL ENGINEER — LODATO ROBERT — NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE JULY 2026
DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LAYOUT PLAN AND PROFILE
STA "F1" 16+00 to STA "F1" 20+50

T15165503
DWG. NO. LPP-2
SHEET 11 — OF — 95

PLOT STAMP: Login Name: lyarnedoe Plot Date: July 02, 2026 - 4:23 pm

CAD FILE: XREFS: BDR-24301g_JA_22x34 | 24301g_JR-APH | 24301g_JR-UTIL | 24301g_JR-TOPO | 24301g_JR-HATCH | 24301g_JR-BASEMAP | 24301g_JR-SITE | 24301g_
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PLOT STAMP: Login Name: kamadea
Plot Date: July 02, 2026 - 4:23 pm

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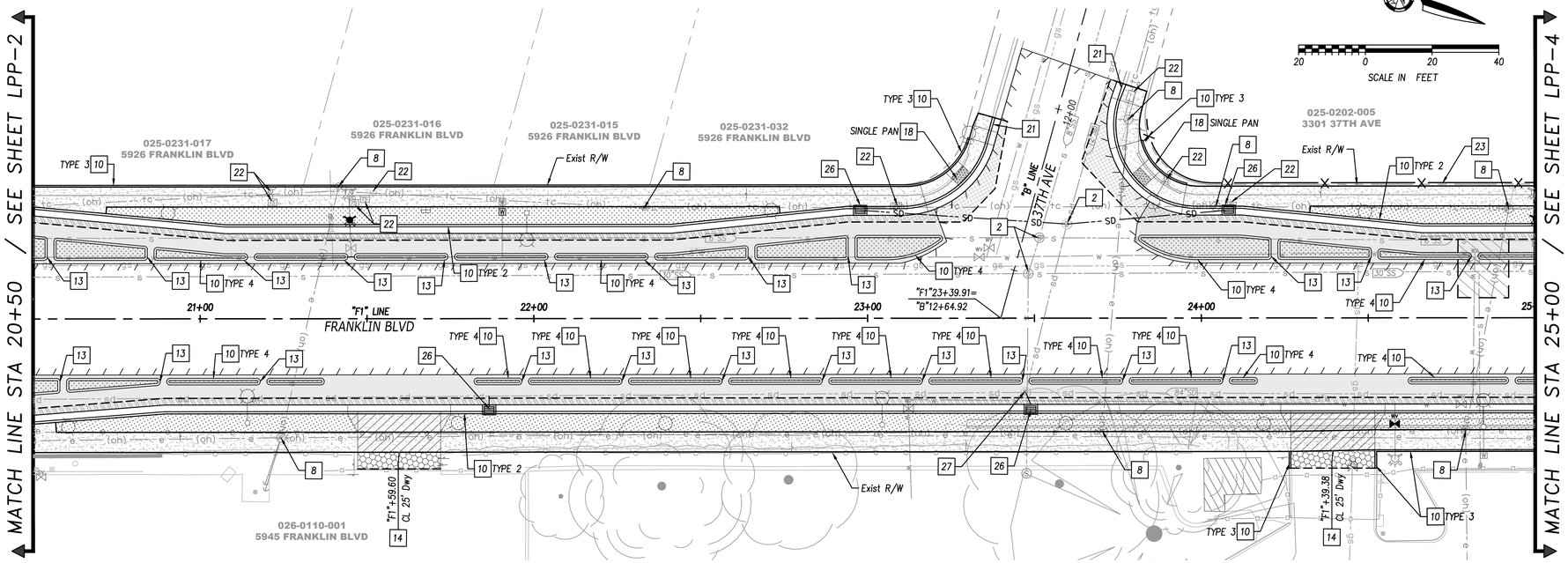

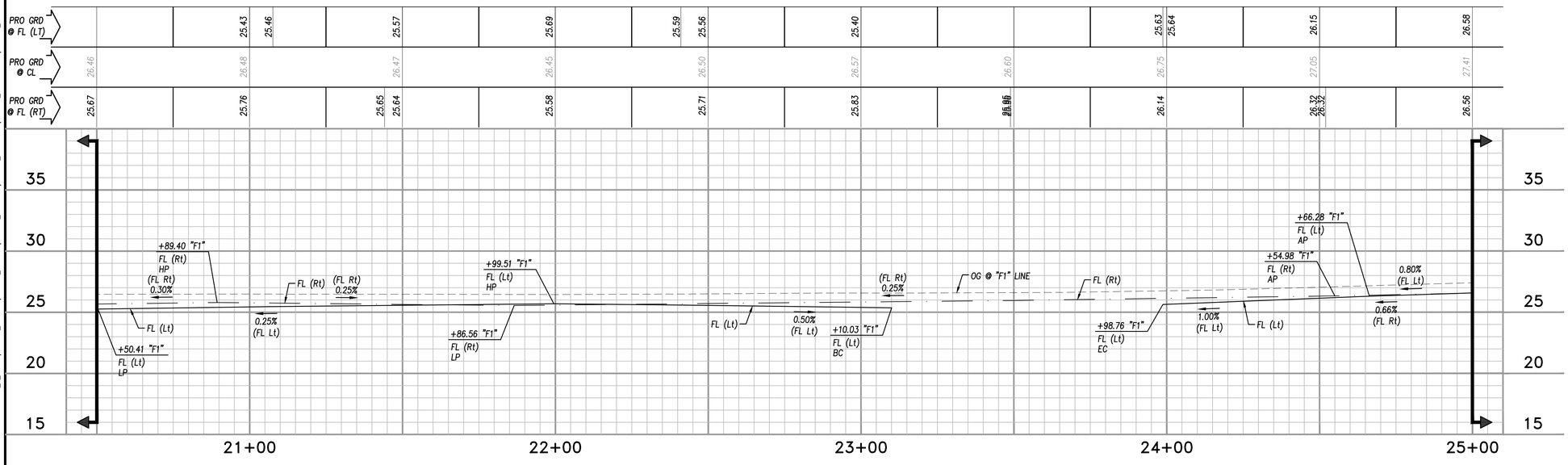

LAYOUT NOTES:

1. PROTECT IN PLACE
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4. UTILITY STRUCTURE, ADJUST TO GRADE BY OTHERS
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4. SEE ELECTRICAL PLANS FOR REMOVAL AND RELOCATION OF ALL TRAFFIC SIGNAL AND STREET LIGHTING UTILITIES.
5. SEE WATER PLANS FOR ALL IMPROVEMENTS & RELOCATIONS OF WATER UTILITIES.

LEGEND:

- 3.5" GRIND / 3.5" OVERLAY
- 2" GRIND / 2" OVERLAY
- 4" CONCRETE / 6" CLASS 2 AB
- 6" CONCRETE / 6" CLASS 2 AB
- 3" HMA / 9" CLASS 2 AB
- 4" HMA / 14" CLASS 2 AB
- MICROSURFACE
- 4" HMA CONFORM
- 4" CONC CONFORM
- LANDSCAPING (SEE LANDSCAPE PLANS)
- 6" HMA (DIGOUTS)
- 8" HMA
- SLURRY SEAL
- SAWCUT

LICENSED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: 1"=5'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

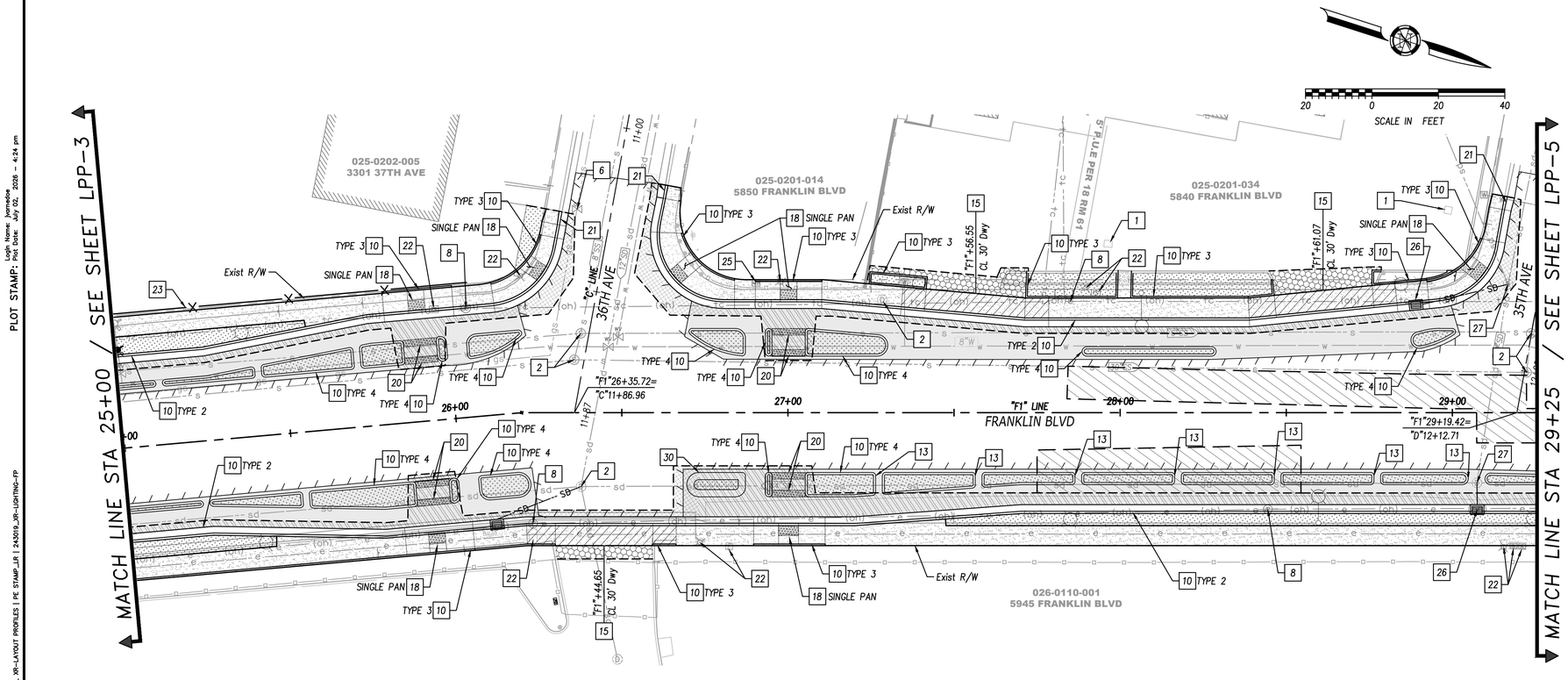
DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

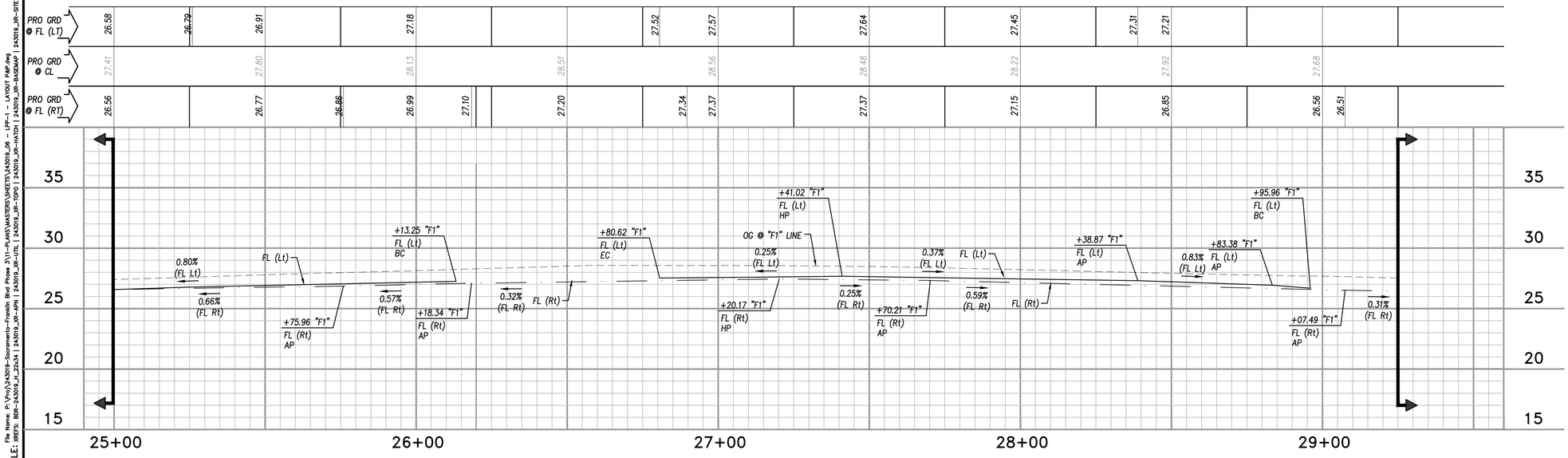
BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LAYOUT PLAN AND PROFILE
STA "F1" 20+50 to STA "F1" 25+00

T15165503
DWG. NO. LPP-3
SHEET 12 OF 95





LAYOUT NOTES:

1. PROTECT IN PLACE
2. MANHOLE FRAME AND COVER, ADJUST TO GRADE
3. MANHOLE FRAME AND COVER, ADJUST TO GRADE BY OTHERS
4. UTILITY STRUCTURE, ADJUST TO GRADE BY OTHERS
5. SEWER CLEAN OUT BOX, ADJUST TO GRADE
6. GAS VALVE, ADJUST TO GRADE
7. INSTALL DITCH BOX PER CITY STD DWG S-30
8. JOINT POLE, TO BE RELOCATED BY OTHERS
9. UTILITY STRUCTURE, TO BE RELOCATED BY OTHERS
10. CONSTRUCT CURB PER CITY STD DWG T-11
11. CONSTRUCT CURB PER COUNTY STD DWG 4-30
12. CONSTRUCT CURB NOTCH, SEE DTL 2 SHT D-1
13. CONSTRUCT 2-FOOT MEDIAN OPENING
14. CONSTRUCT PLANTER STRIP DRIVEWAY PER CITY STD DWG T-22
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19. CONSTRUCT CURB RAMP WITH TRUNCATED DOME TILES PER COUNTY STD DWG 4-49, 4-50 & 4-51
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21. TRANSITION FROM VERTICAL CURB TO ROLLED CURB, SEE DTL 1 SHT D-1
22. ELECTRICAL STRUCTURE, SEE ELECTRICAL SHEETS
23. PROPERTY OWNER FENCE, TO BE RELOCATED
24. PROPERTY OWNER GATE, TO BE RELOCATED. RESET GATE TRACK.
25. MAILBOX, TO BE RELOCATED
26. INSTALL TYPE B DRAIN INLET PER CITY STD DWG S-10
27. MODIFY MANHOLE, SEE DRAINAGE PROFILE SHEETS
28. CONSTRUCT MODIFIED DUAL PAN CURB RAMP WITH TRUNCATED DOME TILES, SEE GRADING SHEETS
29. CONSTRUCT MODIFIED TYPE 2 CURB AND GUTTER PER DTL 5 SHT D-1
30. CONSTRUCT MOUNTABLE CURB TYPE D-6 PER CALTRANS STD PLAN A87A
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32. CONSTRUCT CURB CUT PER DTL 3 SHT D-1

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HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LAYOUT PLAN AND PROFILE
STA "F1" 25+00 to STA "F1" 29+25

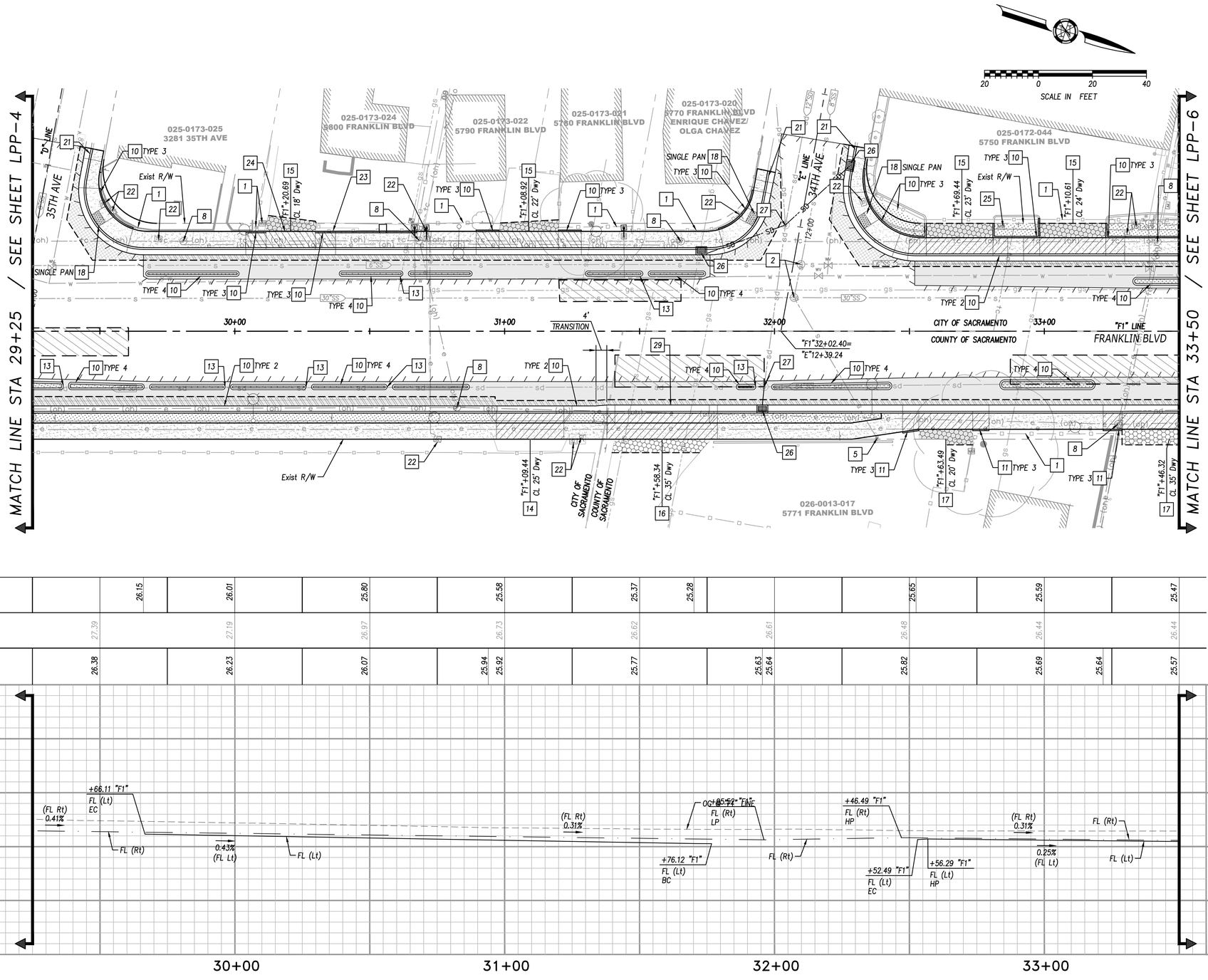
T15165503

DWG. NO. LPP-4
SHEET 13 OF 95

PLOT STAMP: Login Name: lvarnedoe, Plot Date: July 02, 2026 - 4:24 pm

CAD FILE: XREFS: BDR-243019_JL_22x34 | 243019_JR-APN | 243019_JR-UTIL | 243019_JR-TOPO | 243019_JR-HATCH | 243019_JR-BASEMAP | 243019_JR-SITE | 243019_JR-LAYOUT PROFILES | PE STAMP_LR | 243019_JR-LIGHTING-FP

File Name: P:\Pro\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_06 - LPP-1 - LAYOUT PAGE.dwg



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LICENSED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: 1"=5'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE JULY 2026
DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LAYOUT PLAN AND PROFILE
STA "F1" 29+25 to STA "F1" 33+50

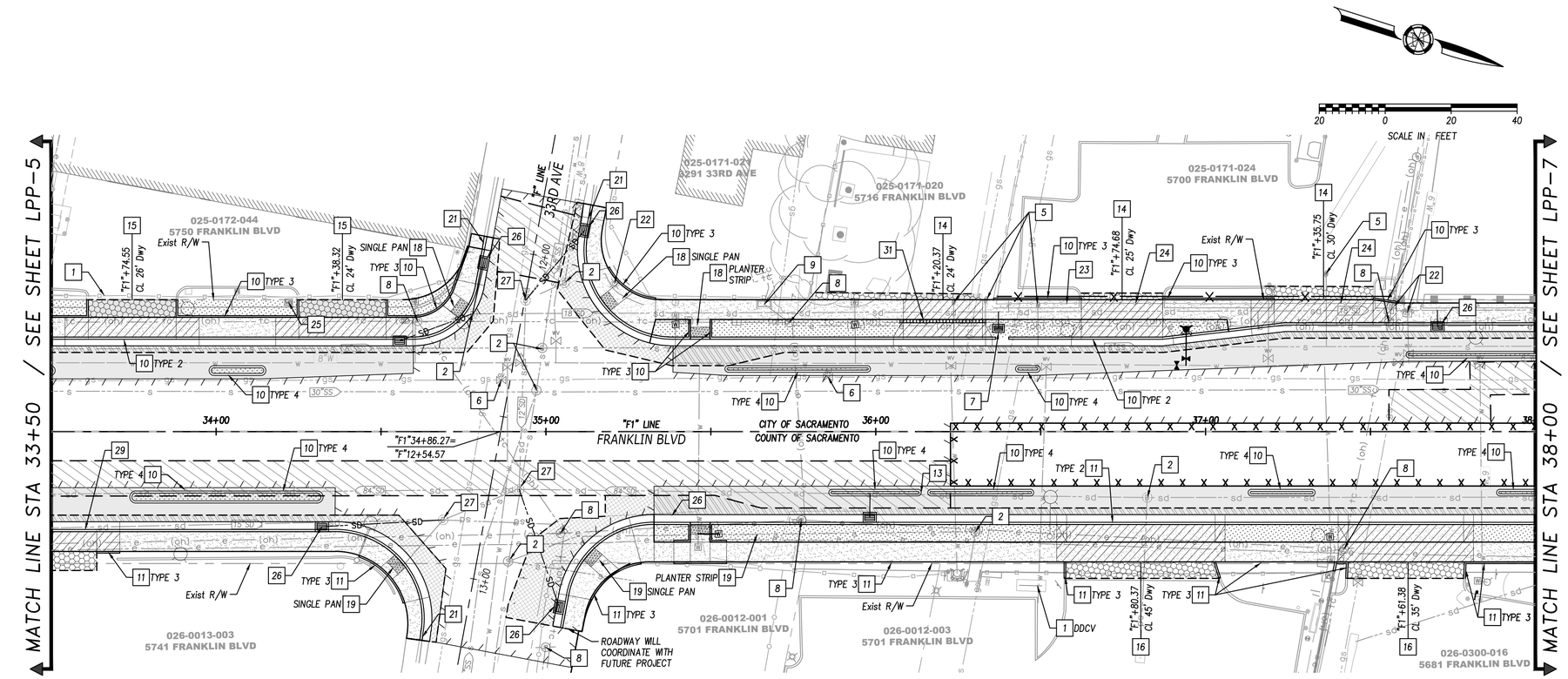
T15165503

DWG. NO. LPP-5
SHEET 14 OF 95

PLOT STAMP: Login Name: lvarnedoe, Plot Date: July 02, 2026 - 4:24 pm

CAD FILE: XREFS: BRF-243019_JL_22x34 | 243019_JR-xPN | 243019_JR-UTIL | 243019_JR-TOPO | 243019_JR-HATCH | 243019_JR-BASEMAP | 243019_JR-SITE | 243019_JR-LAYOUT PROFiles | PE STAMP_LR | 243019_JR-LIGHTING-FP

File Name: P:\Pro\243019-Sacramento-Franklin Blvd Phase 3\1-PLANS\MASTERS\SHEETS\243019_06 - LPP-1 - LAYOUT PAP.dwg



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- SAWCUT

LICENSED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

PLOT STAMP: Login Name: lyamadas, Plot Date: July 02, 2026 - 4:24 pm

CAD FILE: XREFS: BMP-243019_H_25-24 | 243019_JR-APN | 243019_JR-UTIL | 243019_JR-TOPO | 243019_JR-HATCH | 243019_JR-BASEMAP | 243019_JR-SITE | 243019_JR-LAYOUT PROFILES | PE STAMP_LJR | 243019_JR-LIGHTING-FP

File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\1-PLANS\MASTERS\SHEETS\243019_06 - LPP-1 - LAYOUT P&P.dwg

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: 1"=5'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

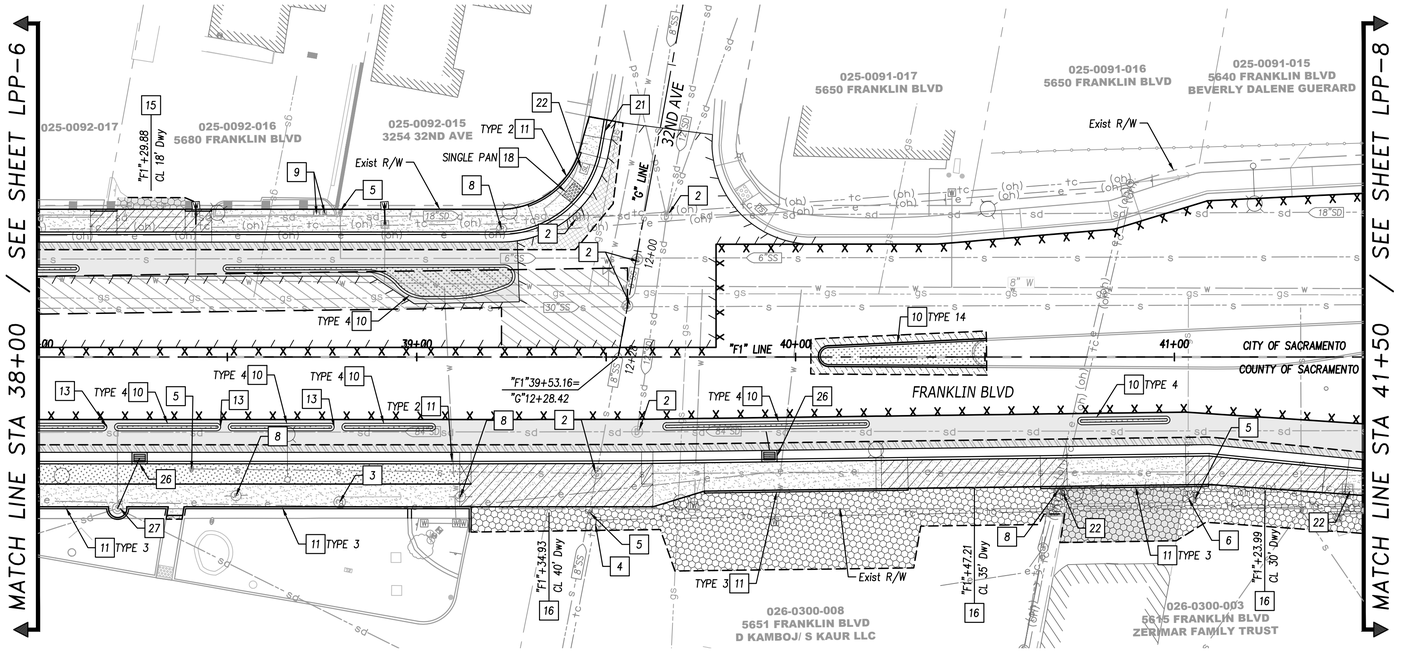
LAYOUT PLAN AND PROFILE
STA "F1" 33+50 to STA "F1" 38+00

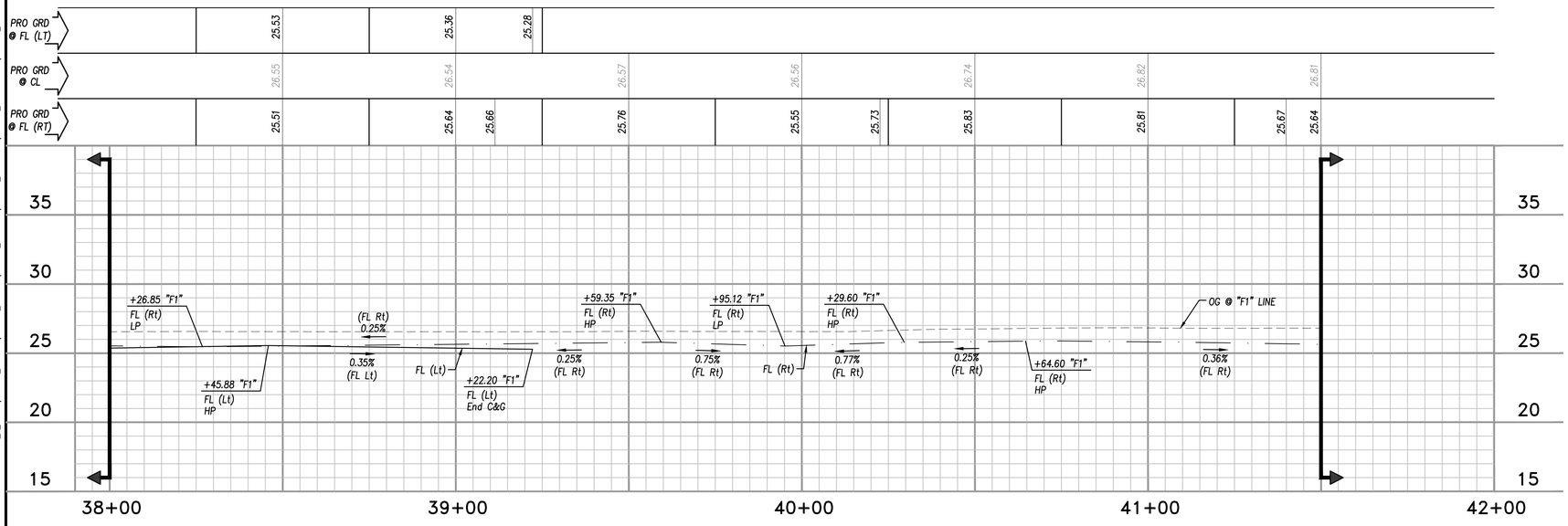
T15165503

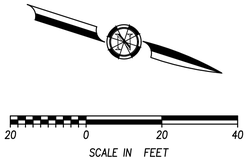
DWG. NO. LPP-6
SHEET 15 OF 95

PLOT STAMP: Login Name: jamadeo, Plot Date: July 02, 2026 - 4:24 pm

CAD FILE: XREFS: BMP-243019_JR-L22x34 | 243019_JR-APN | 243019_JR-UTIL | 243019_JR-TOPO | 243019_JR-MATCH | 243019_JR-BASEMAP | 243019_JR-SITE | 243019_JR-LAYOUT PROFILES | PE STAMP_JR | 243019_JR-LIGHTING-FP
File Name: P:\Pro\243019-Sacramento-Franklin Blvd Phase 3\V1-PLANS\MASTERS\SHEETS\243019_06 - LPP-1 - LAYOUT PROFILES.dwg







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REGISTERED PROFESSIONAL ENGINEER LICCIATO RUBIO NO. 56895

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NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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IMPROVEMENT PLANS FOR
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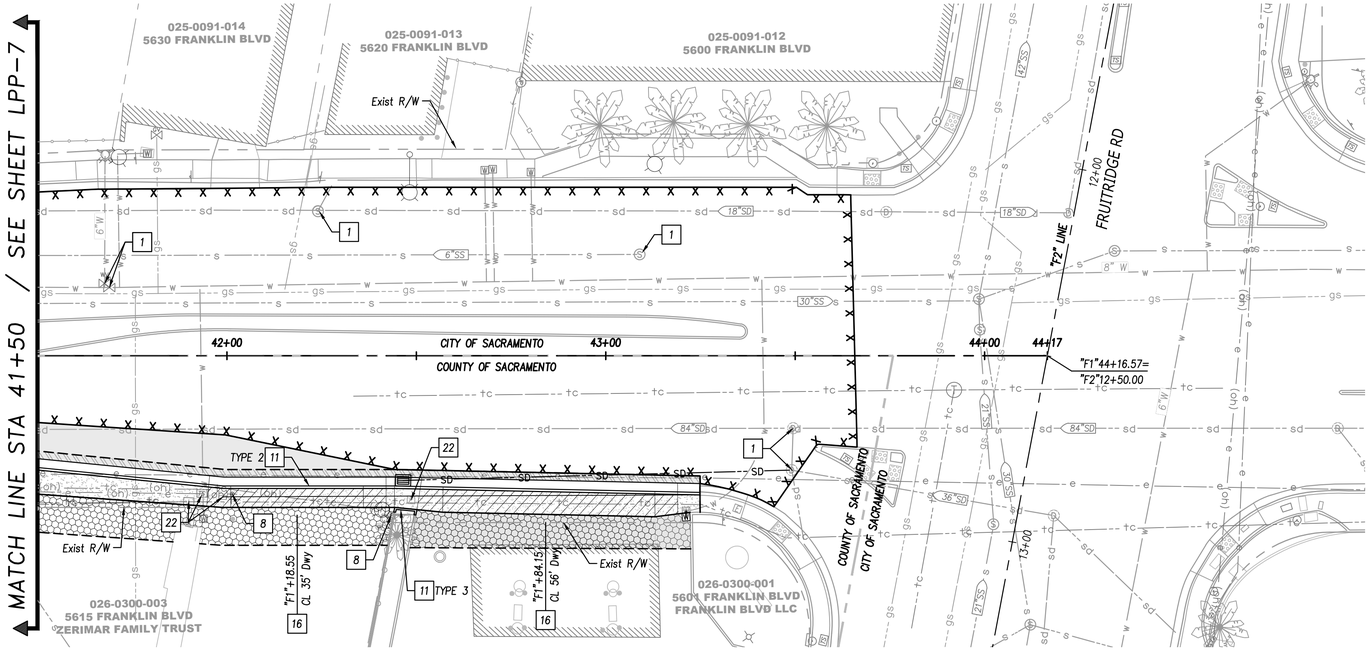
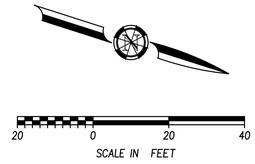
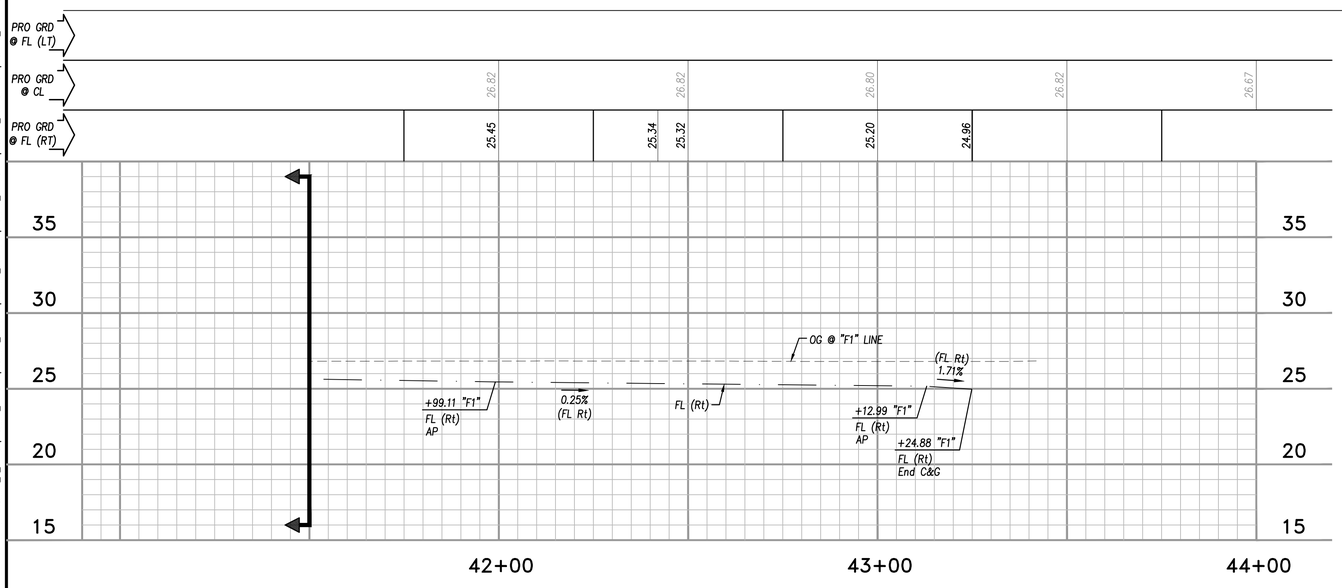
LAYOUT PLAN AND PROFILE
STA "F1" 38+00 to STA "F1" 41+50

T15165503

DWG. NO. LPP-7
SHEET 16 OF 95







LAYOUT NOTES:

1. PROTECT IN PLACE
2. MANHOLE FRAME AND COVER, ADJUST TO GRADE
3. MANHOLE FRAME AND COVER, ADJUST TO GRADE BY OTHERS
4. UTILITY STRUCTURE, ADJUST TO GRADE BY OTHERS
5. SEWER CLEAN OUT BOX, ADJUST TO GRADE
6. GAS VALVE, ADJUST TO GRADE
7. INSTALL DITCH BOX PER CITY STD DWG S-30
8. JOINT POLE, TO BE RELOCATED BY OTHERS
9. UTILITY STRUCTURE, TO BE RELOCATED BY OTHERS
10. CONSTRUCT CURB PER CITY STD DWG T-11
11. CONSTRUCT CURB PER COUNTY STD DWG 4-30
12. CONSTRUCT CURB NOTCH, SEE DTL 2 SHT D-1
13. CONSTRUCT 2-FOOT MEDIAN OPENING
14. CONSTRUCT PLANTER STRIP DRIVEWAY PER CITY STD DWG T-22
15. CONSTRUCT SIDEWALK DRIVEWAY PER CITY STD DWG T-21
16. CONSTRUCT TYPE A DRIVEWAY PER COUNTY STD DWG 4-35
17. CONSTRUCT TYPE A DRIVEWAY PER COUNTY STD DWG 4-A-35
18. CONSTRUCT CURB RAMP WITH TRUNCATED DOME TILES PER CITY STD DWG T-71, T-78 & T-79
19. CONSTRUCT CURB RAMP WITH TRUNCATED DOME TILES PER COUNTY STD DWG 4-49, 4-50 & 4-51
20. INSTALL DETECTABLE WARNING SURFACE PER CITY STD DWG T-79
21. TRANSITION FROM VERTICAL CURB TO ROLLED CURB, SEE DTL 1 SHT D-1
22. ELECTRICAL STRUCTURE, SEE ELECTRICAL SHEETS
23. PROPERTY OWNER FENCE, TO BE RELOCATED
24. PROPERTY OWNER GATE, TO BE RELOCATED. RESET GATE TRACK.
25. MAILBOX, TO BE RELOCATED
26. INSTALL TYPE B DRAIN INLET PER CITY STD DWG S-10
27. MODIFY MANHOLE, SEE DRAINAGE PROFILE SHEETS
28. CONSTRUCT MODIFIED DUAL PAN CURB RAMP WITH TRUNCATED DOME TILES, SEE GRADING SHEETS
29. CONSTRUCT MODIFIED TYPE 2 CURB AND GUTTER PER DTL 5 SHT D-1
30. CONSTRUCT MOUNTABLE CURB TYPE D-6 PER CALTRANS STD PLAN A87A
31. INSTALL TRENCH DRAIN PER DTL 7 SHT D-1
32. CONSTRUCT CURB CUT PER DTL 3 SHT D-1

NOTES:

1. CONTRACTOR TO PROTECT ALL UTILITIES IN PLACE, UNLESS OTHERWISE NOTED.
2. UTILITY INFORMATION SHOWN IS APPROXIMATE BASED ON SOURCES OF VARYING RELIABILITY. CONTRACTOR SHALL POSITION/LOCATE ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION.
3. SEE LANDSCAPE PLANS FOR REMOVAL AND RELOCATION OF ALL IRRIGATION UTILITIES.
4. SEE ELECTRICAL PLANS FOR REMOVAL AND RELOCATION OF ALL TRAFFIC SIGNAL AND STREET LIGHTING UTILITIES.
5. SEE WATER PLANS FOR ALL IMPROVEMENTS & RELOCATIONS OF WATER UTILITIES.

LEGEND:

3.5" GRIND 3.5" OVERLAY	4" HMA CONFORM
2" GRIND 2" OVERLAY	4" CONC CONFORM
4" CONCRETE 6" CLASS 2 AB	LANDSCAPING (SEE LANDSCAPE PLANS)
6" CONCRETE 6" CLASS 2 AB	6" HMA (DIGOUTS)
3" HMA 9" CLASS 2 AB	8" HMA
4" HMA 14" CLASS 2 AB	SLURRY SEAL
MICROSURFACE	SAWCUT

LICENSED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

PLOT STAMP: Login Name: jamesdoe Plot Date: July 02, 2026 - 4:24 pm

CAD FILE: File Name: P:\Proj\24301B-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\24301B_06 - LPP-1 - LAYOUT P&P.dwg XREFS: BMP-24301B_H_22x34 | 24301B_XR-ARPH | 24301B_XR-UTIL | 24301B_XR-TOPO | 24301B_XR-HATCH | 24301B_XR-BASEMAP | 24301B_XR-SITE | 24301B_...

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: 1"=5'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LAYOUT PLAN AND PROFILE
STA "F1" 41+50 to STA "F1" 45+00

T15165503

DWG. NO. LPP-8
SHEET 17 OF 95

PLOT STAMP: Login Name: kamsadan
Plot Date: July 02, 2026 - 4:16 pm

CAD FILE: XREFS: BOR-2A3019_sl_22x34 | 2A3019_JR-SITE | 2A3019_JR-BASEMAP | 2A3019_JR-HATCH | 2A3019_JR-TOPO | 2A3019_JR-UTIL | PE STAMP_JR
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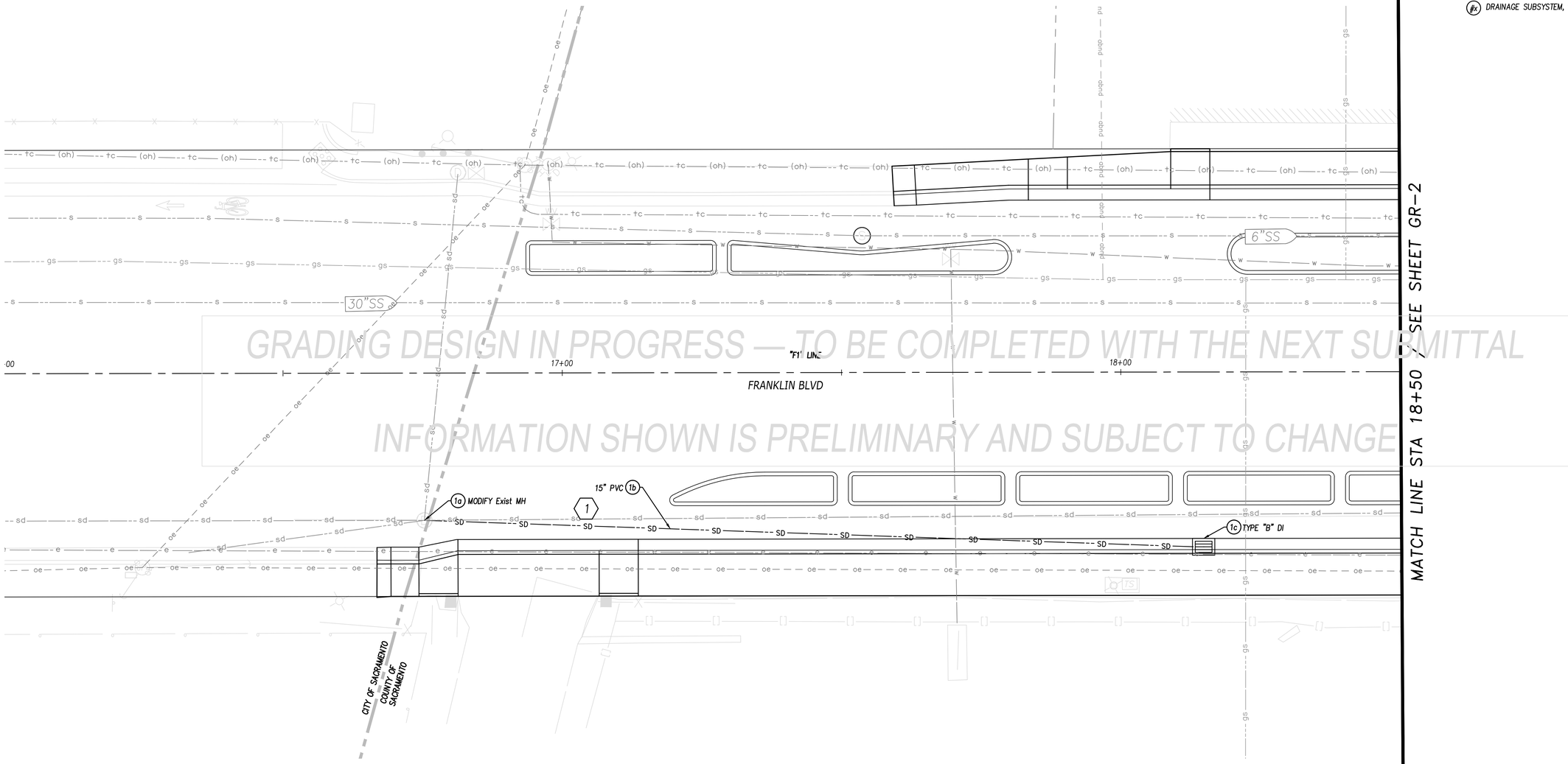


GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PREliminARY AND SUBJECT TO CHANGE

REGISTERED PROFESSIONAL ENGINEER
LOODO O. RUBIO
NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 16+00 to STA 18+50

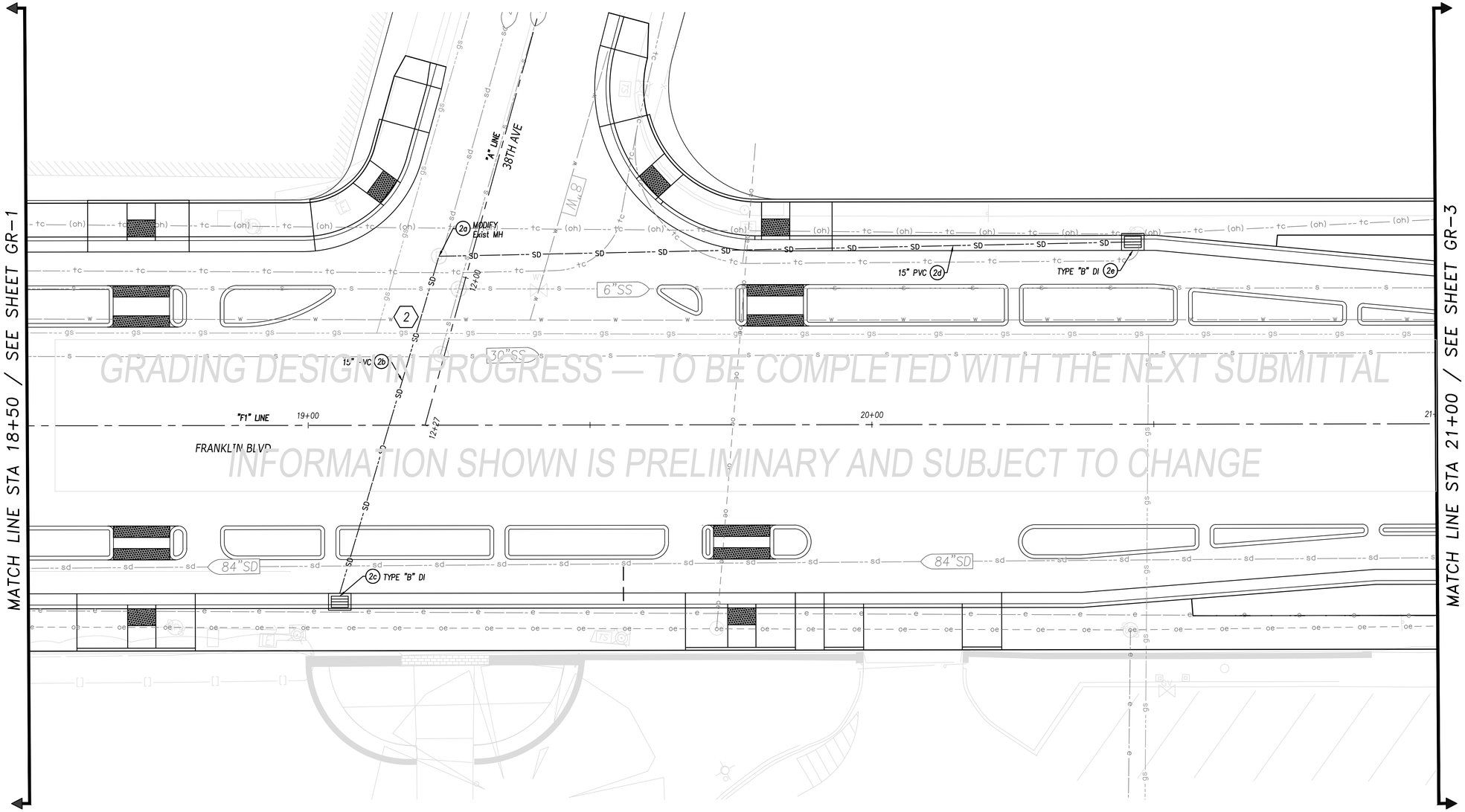
T15165503

DWG. NO. GR-1
SHEET 18 OF 95

PLOT STAMP: Login Name: lamnedoe
Plot Date: July 02, 2026 - 4:16 pm

CAD FILE: XREFS: BAR-JA3019_A_22x34 | JA3019_JR-SITE | JA3019_JR-BASEMAP | JA3019_JR-HATCH | JA3019_JR-TOPO | JA3019_JR-UTIL | PE STAMP_LR
File Name: P:\Proj\JA3019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\JA3019_07 - GR-1 - GRADING PLAN.dwg

MATCH LINE STA 18+50 / SEE SHEET GR-1



GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

MATCH LINE STA 21+00 / SEE SHEET GR-3

10 0 10 20
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER — CLAUDIO RUBIO — NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 18+50 to STA 21+00

T15165503

DWG. NO. GR-2
SHEET 19 OF 95

PLOT STAMP: Login Name: lamendoe
Plot Date: July 02, 2026 - 4:16 pm

CAD FILE: XREFS: BBR-243019_H_22x34 | 243019_XR-SITE | 243019_XR-BASEMAP | 243019_XR-HATCH | 243019_XR-TOPO | 243019_XR-UTIL | PE STAMP_LR
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_07 - GR-1 - GRADING PLAN.dwg

MATCH LINE STA 21+00 / SEE SHEET GR-2

MATCH LINE STA 24+00 / SEE SHEET GR-4

GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

22+00 "F1" LINE 23+00 12+65

FRANKLIN BLVD

"B" LINE 37TH AVE

12" PVC (3b) 3 (3c) TYPE "B" DI (DROP CONNECTION)

(4c) TYPE "B" DI 4 (4b) 15" RCP (4d) 15" RCP MODIFY Exist MH (4a)

5 (5b) 12" PVC (5c) TYPE "B" DI (DROP CONNECTION)

6"SS 8"W 30"SS 8"SS 12"SD 84"SD M 8"

10 0 10 20
SCALE IN FEET

PROFESSIONAL ENGINEER CALIFORNIA ALEJANDRO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 21+00 to STA 24+00

T15165503

DWG. NO. GR-3
SHEET 20 — OF — 95

PLOT STAMP: Login Name: lamnedoe
Plot Date: July 02, 2026 - 4:16 pm

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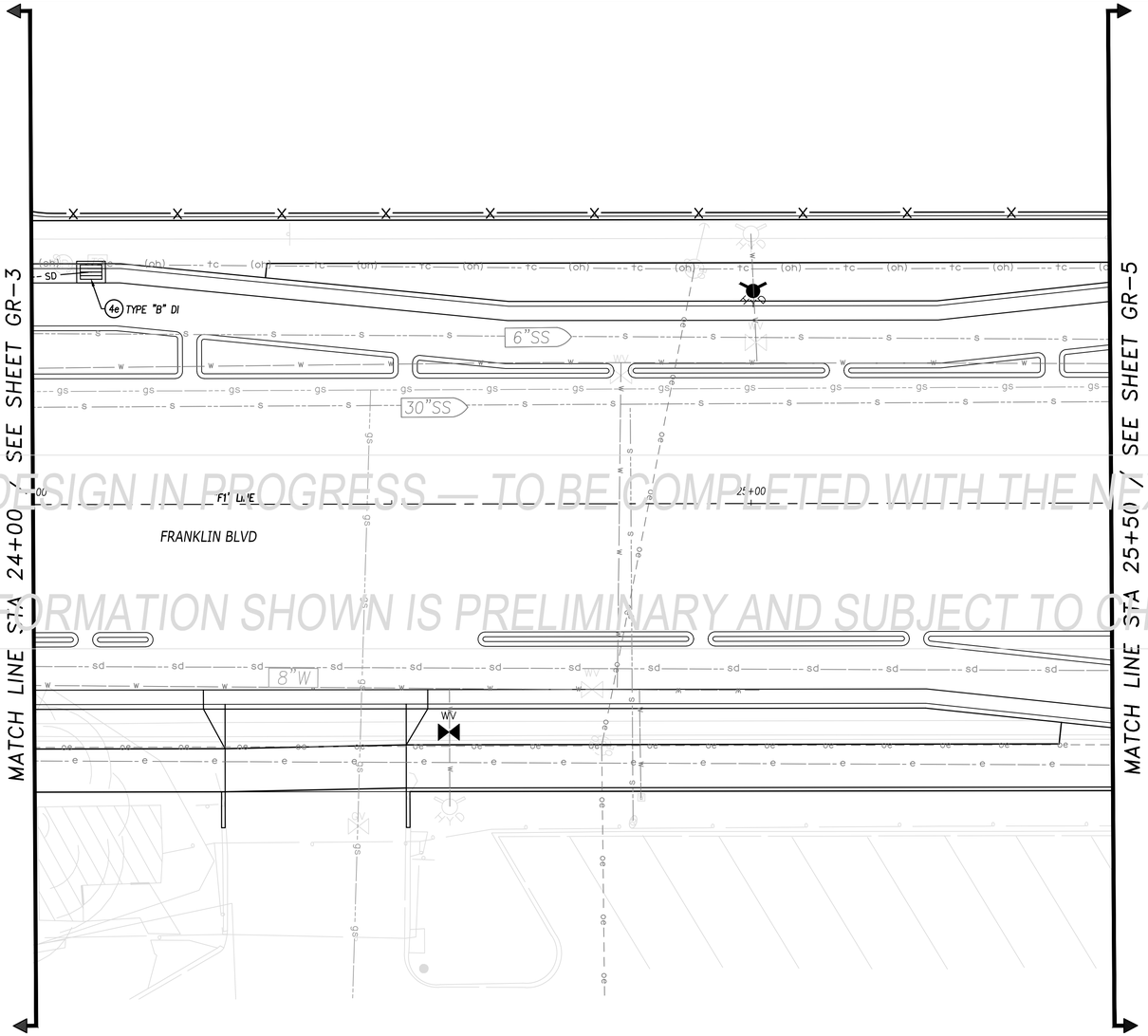

GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

10 0 10 20
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 24+00 to STA 25+50

T15165503

DWG. NO. GR-4
SHEET 21 OF 95

PLOT STAMP: Login Name: jamcadan
Plot Date: July 02, 2026 - 4:16 pm

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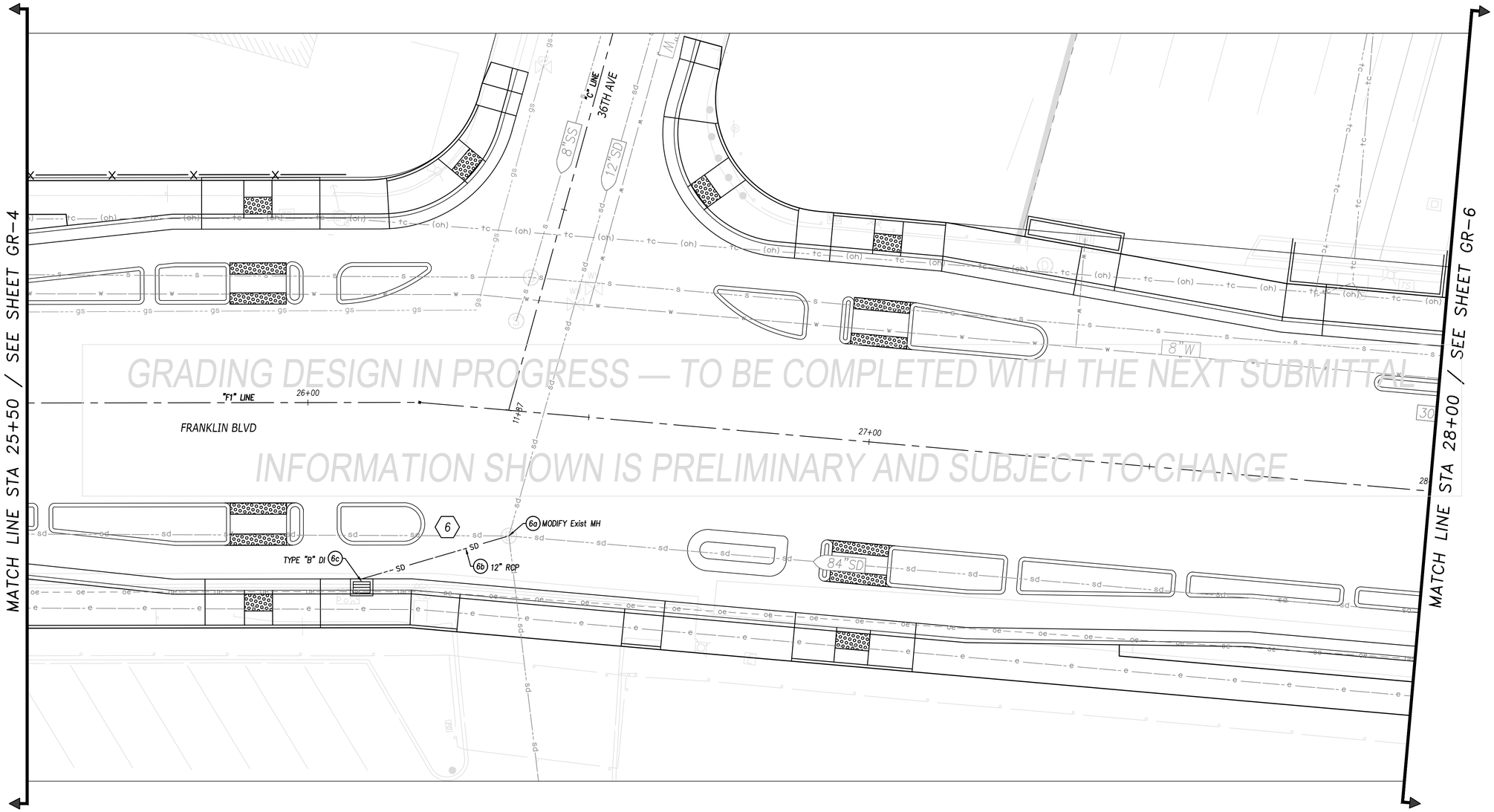


GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

10 0 10 20
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER
OF FRANKLIN BOULEVARD AND 29TH
AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 25+50 to STA 28+00

T15165503

DWG. NO. GR-5
SHEET 22 OF 95

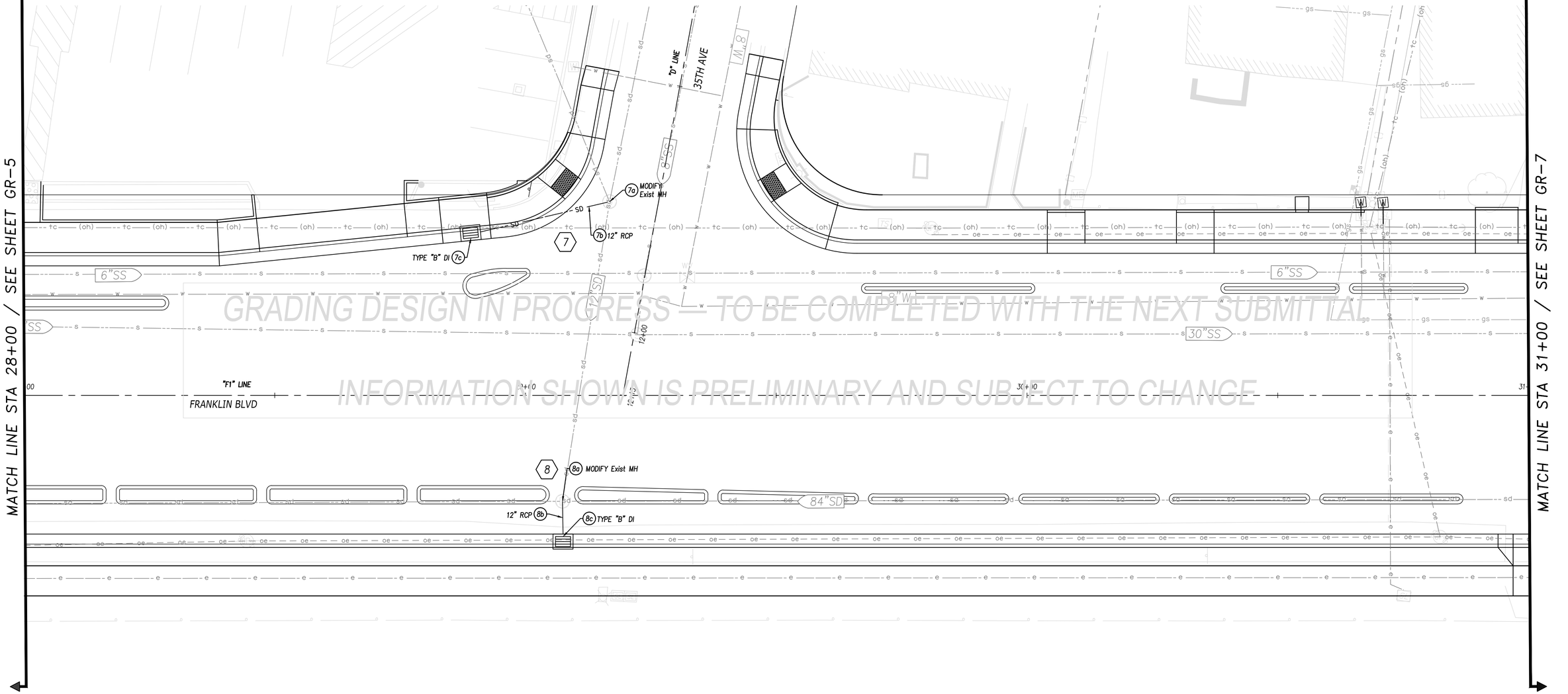
PLOT STAMP: Login Name: jamsadan
Plot Date: July 02, 2026 - 4:16 pm

File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\V1-PLANS\MASTERS\SHEETS\243019_07 - GR-1 - GRADING PLAN.dwg
CAD FILE: XREFS BNR-243019_L-22x34 | 243019_XR-SITE | 243019_XR-BASEMAP | 243019_XR-HATCH | 243019_XR-TOPO | 243019_XR-UTIL | PE STAMP_LR

MATCH LINE STA 28+00 / SEE SHEET GR-5

MATCH LINE STA 31+00 / SEE SHEET GR-7

GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE



60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 28+00 to STA 31+00

T15165503

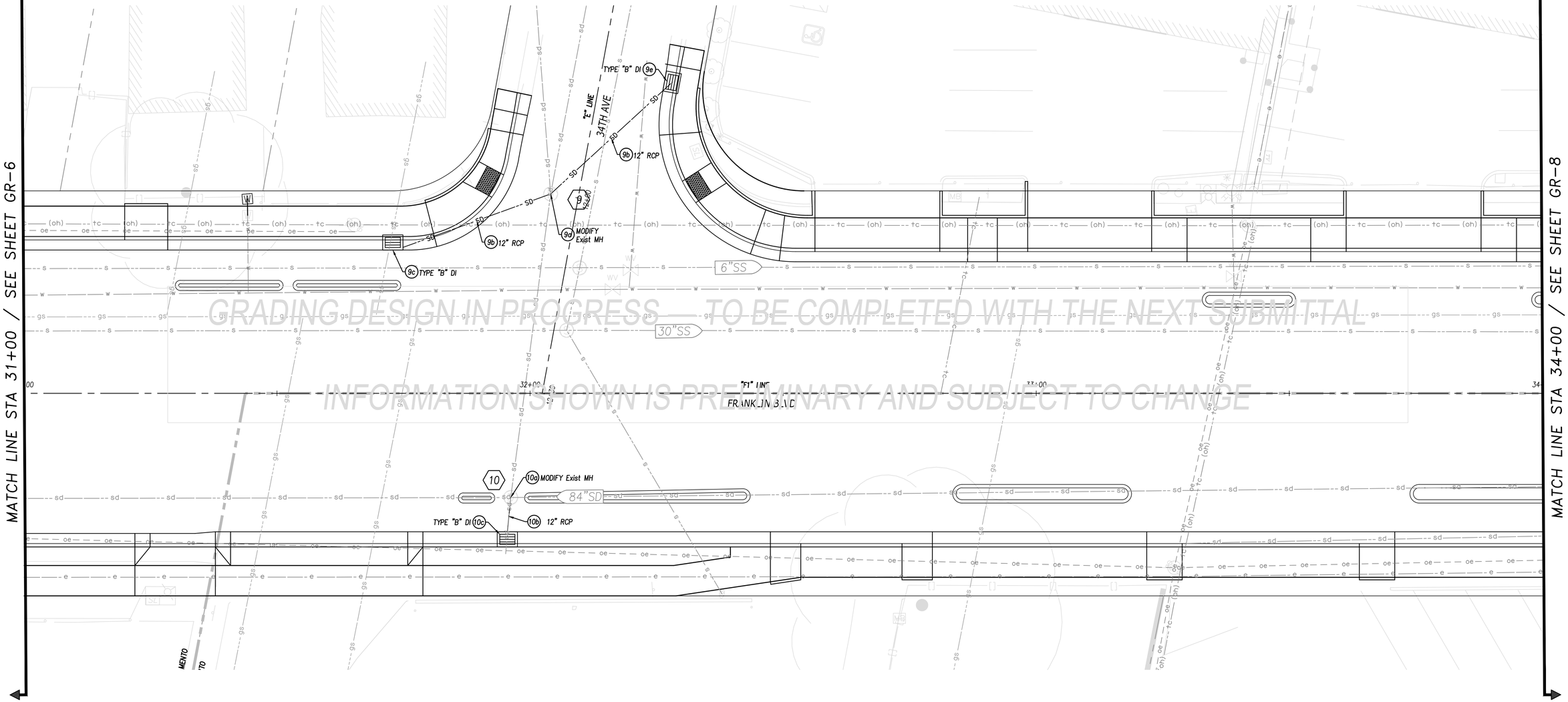
DWG. NO. GR-6
SHEET 23 —OF— 95

PLOT STAMP: Login Name: lamnedoe
Plot Date: July 02, 2026 - 4:16 pm

CAD FILE: XREFS: BBR-24J019_H_22x34 | 24J019_XR-SITE | 24J019_XR-BASEMAP | 24J019_XR-HATCH | 24J019_XR-TOPO | 24J019_XR-UTIL | PE STAMP_LR
File Name: P:\Pro\24J019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\24J019_07 - GR-1 - GRADING PLAN.dwg

MATCH LINE STA 31+00 / SEE SHEET GR-6

MATCH LINE STA 34+00 / SEE SHEET GR-8



SCALE IN FEET
10 0 10 20

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER
OF FRANKLIN BOULEVARD AND 29TH
AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 31+00 to STA 34+00

T15165503

DWG. NO. GR-7
SHEET 24 OF 95

PLOT STAMP: Login Name: lamoreto
Plot Date: July 02, 2026 - 4:16 pm

MATCH LINE STA 34+00 / SEE SHEET GR-7

MATCH LINE STA 37+00 / SEE SHEET GR-9

33RD AVE

FRANKLIN BLVD

35+00

36+00

37

"F" LINE

TYPE "B" DI (11c)

12" RCP (11b)

MODIFY Exist MH (11a)

11

TYPE "B" DI (12c)

12" RCP (12b)

MODIFY Exist MH (12a)

12

TYPE "B" DI (12e)

12" RCP (12d)

MODIFY Exist MH (13a)

13

12" RCP (13b)

TYPE "B" DI (13c)

MODIFY Exist MH (14a)

12" RCP (14b)

14

TYPE "B" DI (14c)

TYPE "B" DI (15c)

15

15b 12" RCP

16

16b 12" RCP

16a TYPE "B" DI

GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

10 0 10 20
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

CIVIL ENGINEER PROFESSIONAL ENGINEER LICOLADIO RUBIO NO. 56895

CAD FILE: XREFS: BNR-JA3019_H_22x34 | JA3019_JR-SITE | JA3019_JR-BASEMAP | JA3019_JR-HATCH | JA3019_JR-TOPO | JA3019_JR-UTIL | PE STAMP_LR
File Name: P:\Pro\JA3019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\JA3019_07 - GR-1 - GRADING PLAN.dwg

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 34+00 to STA 37+00

T15165503

DWG. NO. GR-8
SHEET 25 OF 95

PLOT STAMP: Login Name: jamendez, Plot Date: July 02, 2026 - 4:16 pm
CAD FILE: XREFS: BBR-24J019_J_22x34 | 24J019_JR-SITE | 24J019_JR-BASEMAP | 24J019_JR-HATCH | 24J019_JR-TOPO | 24J019_JR-UTIL | PE STAMP_JR
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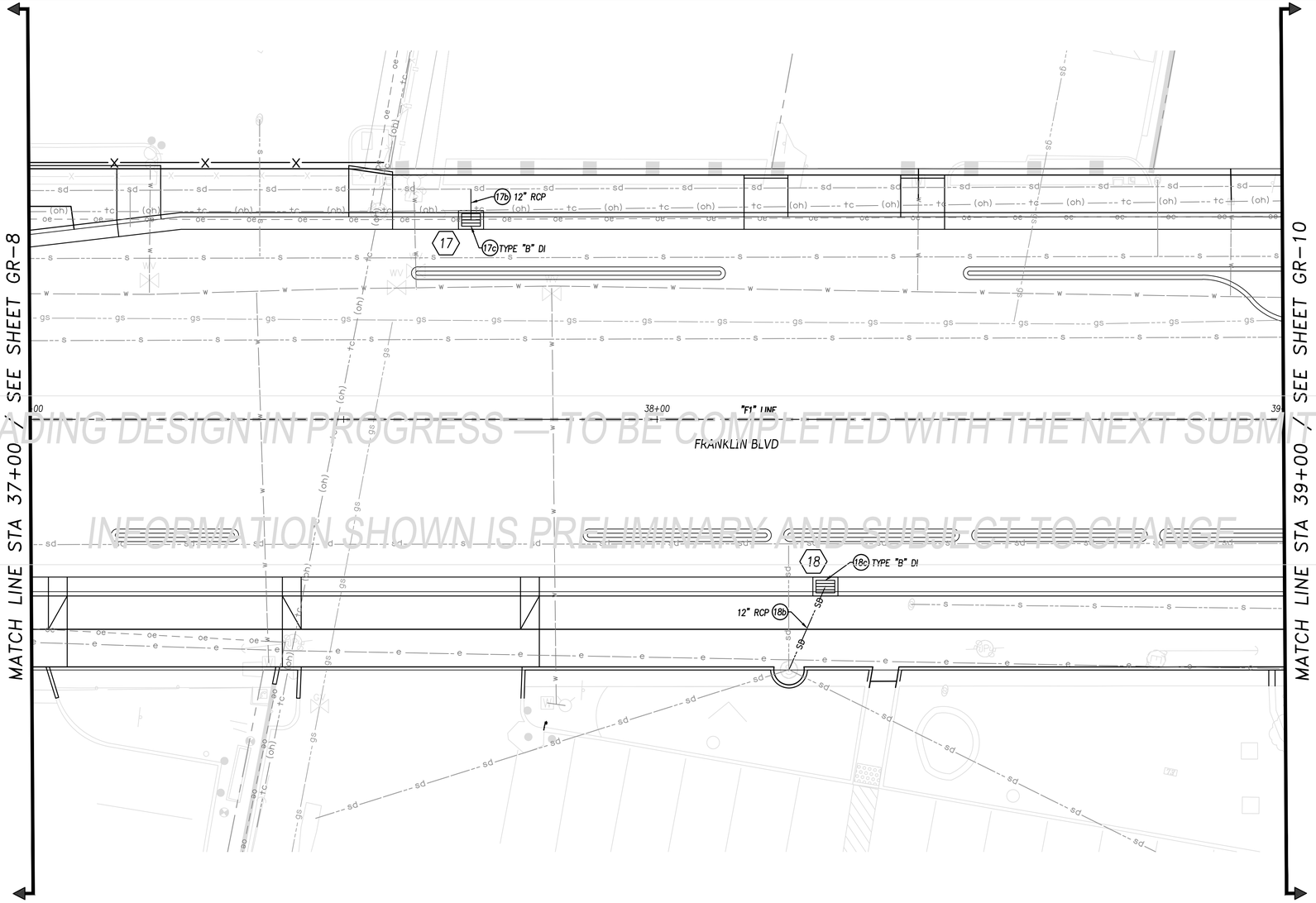


GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

10 0 10 20
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REGISTERED PROFESSIONAL ENGINEER LEONARDO ANDRES MENDEZ NO. 56895

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 37+00 to STA 39+00

T15165503

DWG. NO. GR-9
SHEET 26 OF 95

PLOT STAMP: Login Name: kamradio
Plot Date: July 02, 2026 - 4:16 pm

CAD FILE: XREFS: BBR-24309_H_22x34 | 24309_JR-SITE | 24309_JR-BASEMAP | 24309_JR-HATCH | 24309_JR-TOPO | 24309_JR-UTIL | PE STAMP_LR
File Name: P:\Pro\24309-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\24309_07 - GR-1 - GRADING PLAN.dwg

MATCH LINE STA 39+00 / SEE SHEET GR-9

MATCH LINE STA 42+00 / SEE SHEET GR-11

32ND AVE

"G" LINE

"F1" LINE

FRANKLIN BLVD

12+00

12+28

40+00

41+00

42

TYPE "B" DI (19a) 19 (19b) 12" RCP

GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL

INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

10 0 10 20
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER LEONARDO RAMIREZ NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

GRADING PLAN
STA 39+00 to STA 42+00

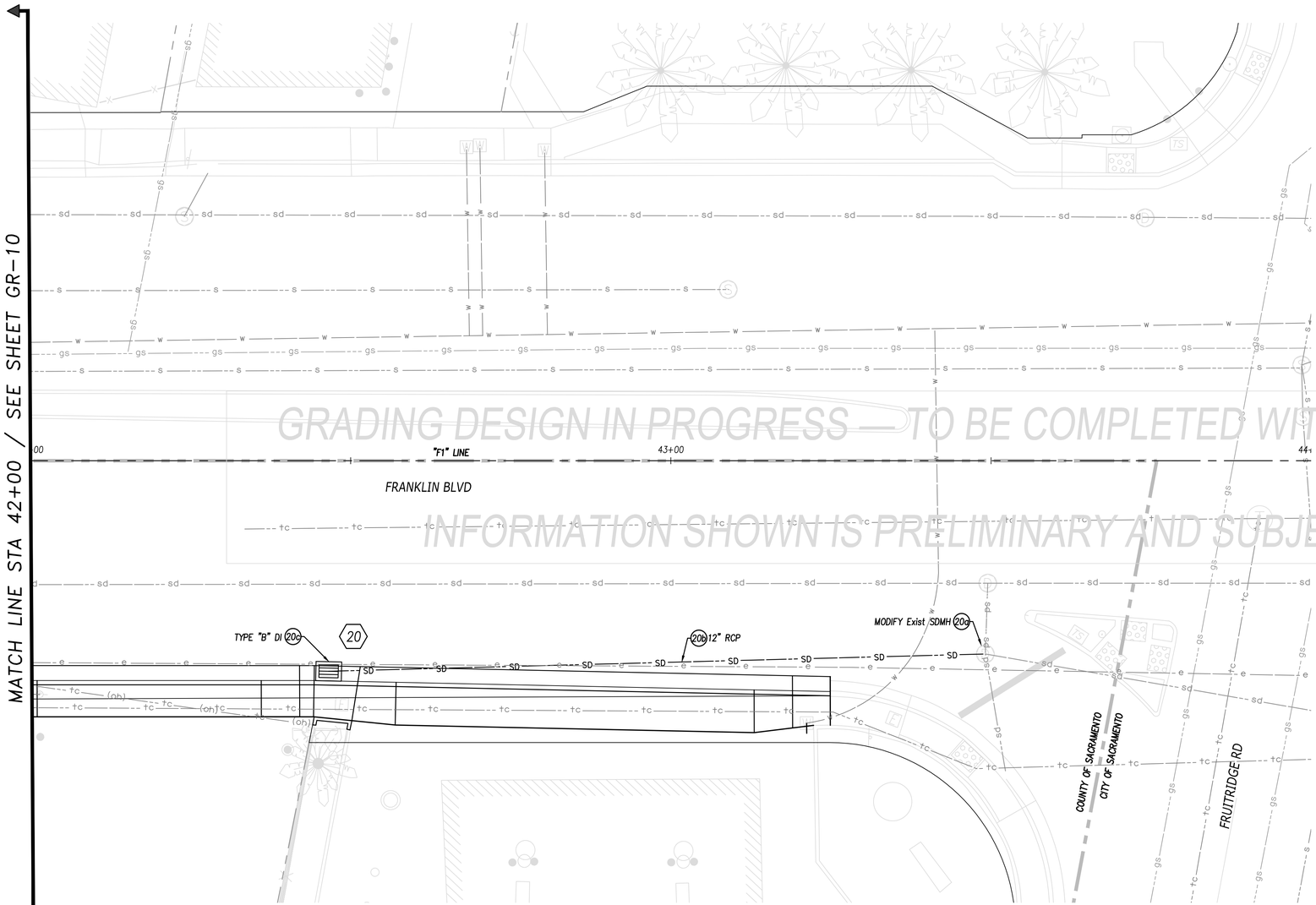
T15165503

DWG. NO. GR-10
SHEET 27 OF 95

PLOT STAMP: Login Name: lamnadav, Plot Date: July 02, 2026 - 4:16 pm

CAD FILE: XREFS: BDR=24019_H_22x34 | 24019_XR=SITE | 24019_XR=BASEMAP | 24019_XR=TOPO | 24019_XR=HATCH | 24019_XR=UTIL | PE STAMP_LR
File Name: P:\Proj\24019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\24019_07 - GR-1 - GRADING PLAN.dwg

MATCH LINE STA 42+00 / SEE SHEET GR-10



GRADING DESIGN IN PROGRESS — TO BE COMPLETED WITH THE NEXT SUBMITTAL
INFORMATION SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

10 0 10 20
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=10'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE APRIL 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE APRIL 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE APRIL 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
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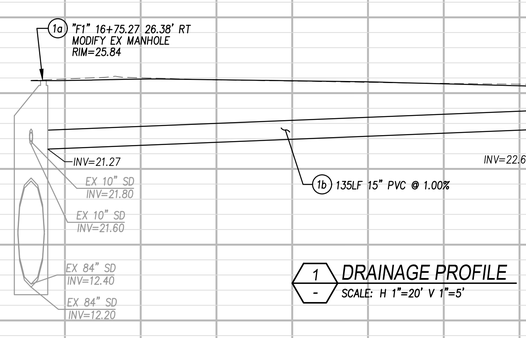
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

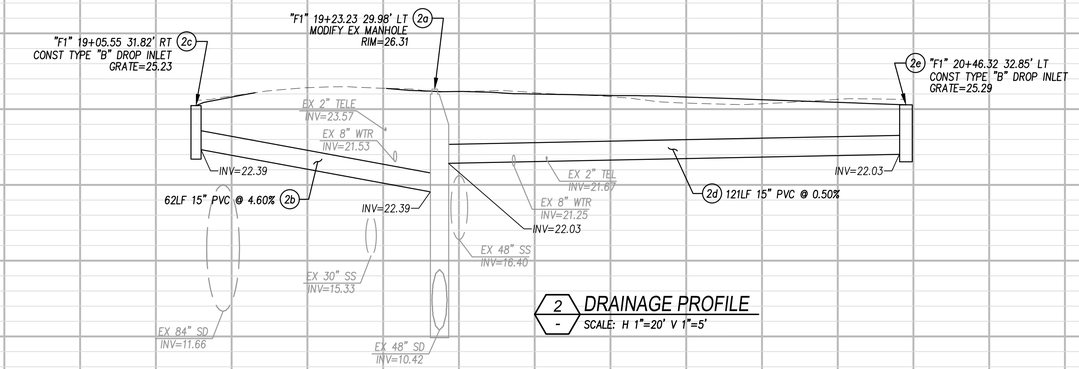
GRADING PLAN
STA 42+00 to STA 44+00

T15165503

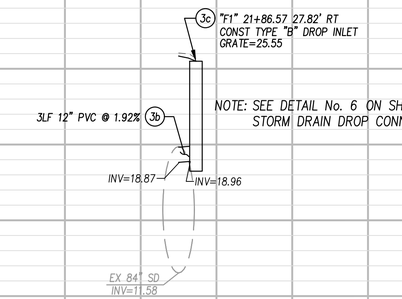
DWG. NO. GR-11
SHEET 28 OF 95



1 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

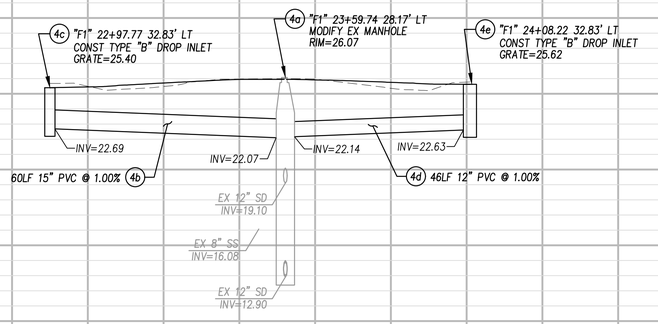


2 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

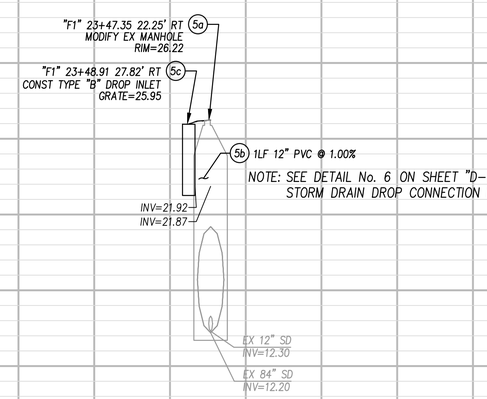


NOTE: SEE DETAIL No. 6 ON SHEET "D-1" FOR STORM DRAIN DROP CONNECTION DETAILS

3 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

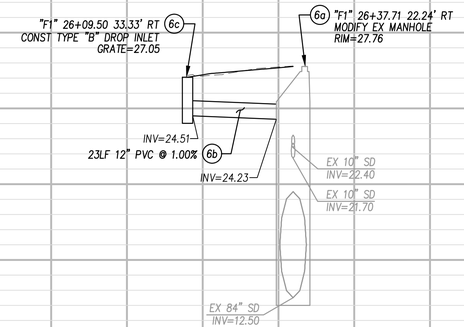


4 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

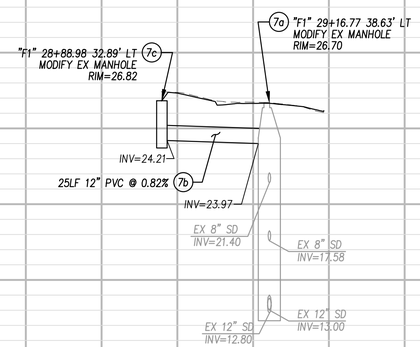


NOTE: SEE DETAIL No. 6 ON SHEET "D-1" FOR STORM DRAIN DROP CONNECTION DETAILS

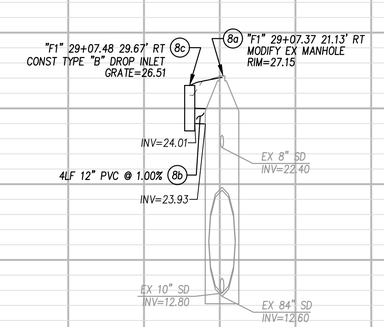
5 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



6 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



7 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



8 DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

NOTE: LOCATIONS AND ELEVATIONS OF EXISTING FACILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY BY POTHOLING PRIOR TO CONSTRUCTION. IF ACTUAL LOCATIONS VARY FROM THE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER, AND FIELD ADJUSTMENTS MAY BE NECESSARY AS DIRECTED BY THE ENGINEER.

EDGARDO RUBIO
NO. 56895
60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

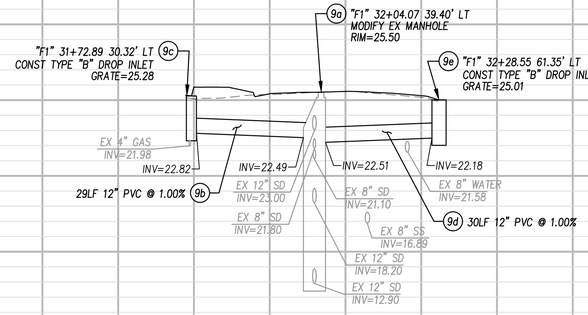
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

DRAINAGE PROFILE

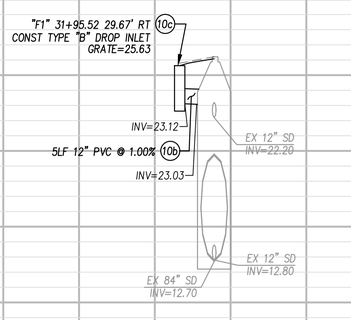
T15165503

DWG. NO. DP-1
SHEET 32 OF 95

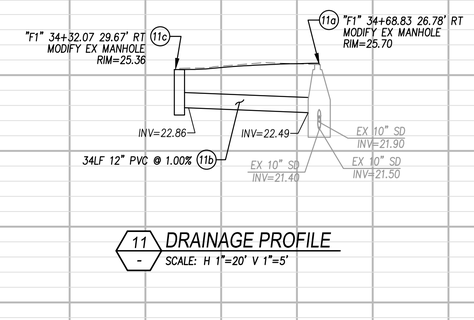
PLOT STAMP: Login Name: cdrozd Plot Date: July 02, 2026 - 5:16 pm
CAD FILE: XREFS: B0R-243019_H_22x34 | PE STAMP_LR | 243019_AR-SITE | 243019_AR-TOPO | 243019_AR-UTIL | 243019_AR-DRAINAGE | B0R-243019_H_22x34_DP
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_09 - DP-1 - DRAINAGE PROFILES.dwg



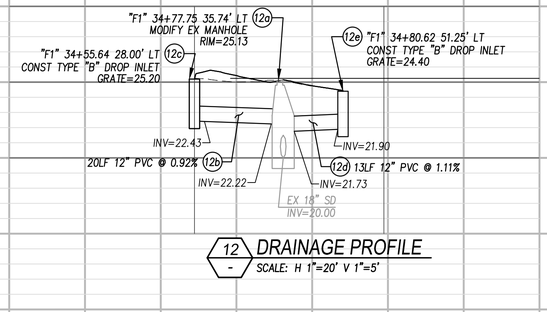
9 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



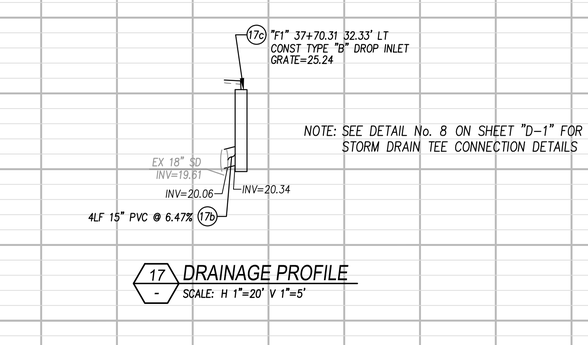
10 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



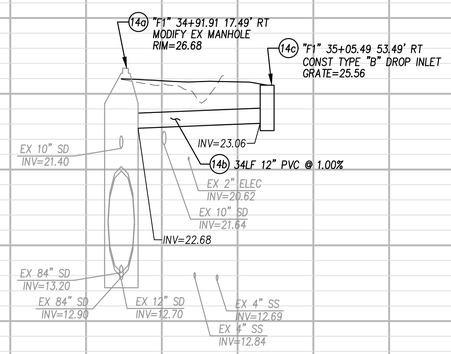
11 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



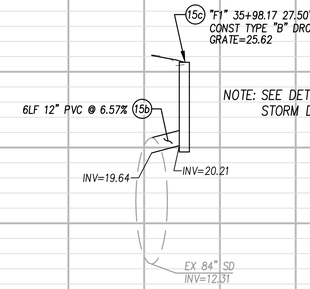
12 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



13 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



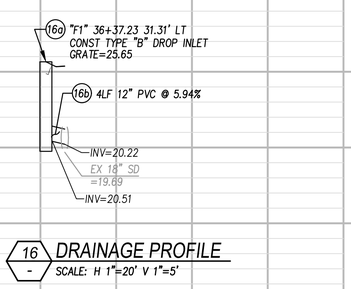
14 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



NOTE: SEE DETAIL No. 8 ON SHEET "D-1" FOR STORM DRAIN TEE CONNECTION DETAILS

15 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

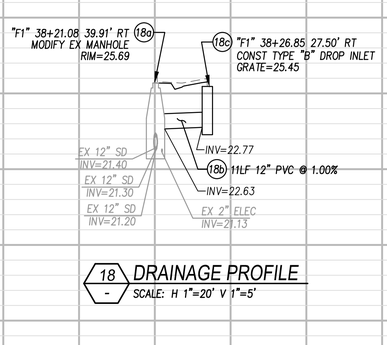
NOTE: SEE DETAIL No. 8 ON SHEET "D-1" FOR STORM DRAIN TEE CONNECTION DETAILS



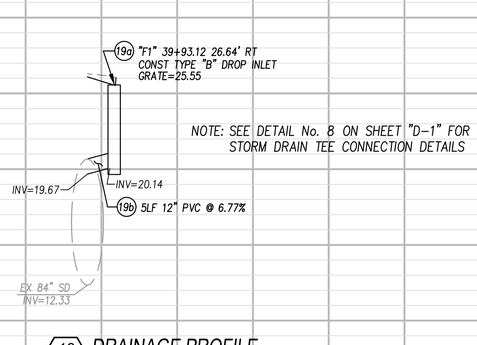
16 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

NOTE: SEE DETAIL No. 8 ON SHEET "D-1" FOR STORM DRAIN TEE CONNECTION DETAILS

17 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

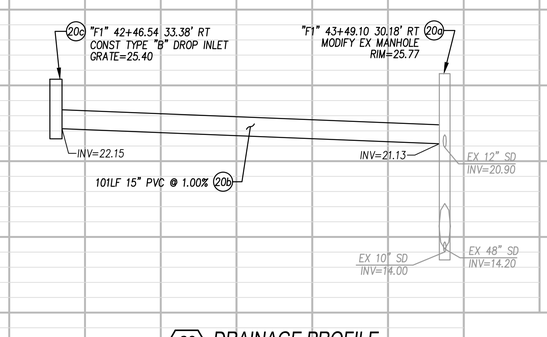


18 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



NOTE: SEE DETAIL No. 8 ON SHEET "D-1" FOR STORM DRAIN TEE CONNECTION DETAILS

19 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'



20 - DRAINAGE PROFILE
SCALE: H 1"=20' V 1"=5'

NOTE: LOCATIONS AND ELEVATIONS OF EXISTING FACILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY BY POTHOLING PRIOR TO CONSTRUCTION. IF ACTUAL LOCATIONS VARY FROM THE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER, AND FIELD ADJUSTMENTS MAY BE NECESSARY AS DIRECTED BY THE ENGINEER.

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER
OF FRANKLIN BOULEVARD AND 29TH
AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
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Roseville, California 95661
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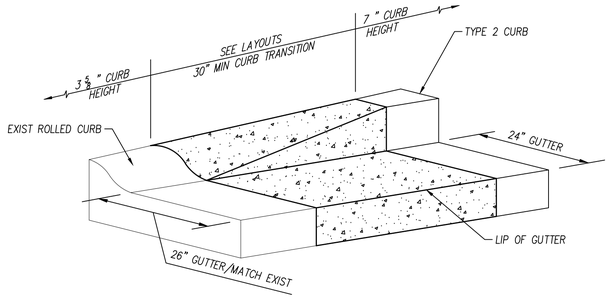
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

DRAINAGE PROFILE

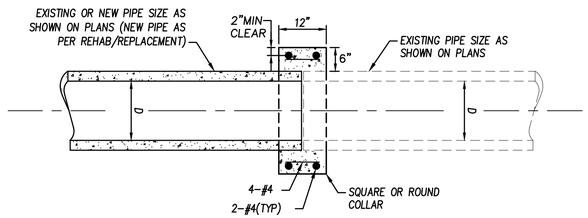
T15165503
DWG. NO. DP-2
SHEET 33 OF 95

PLOT STAMP: Login Name: atrovil Plot Date: July 02, 2026 - 5:15 pm
CAD FILE: XREFS: B0R-243019_H_22x34 | PE STAMP_LR | 243019_JAR-SITE | 243019_JAR-TOPO | 243019_JAR-UTIL | 243019_JAR-DRAINAGE | B0R-243019_H_22x34_DP
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_09 - DP-1 - DRAINAGE PROFILES.dwg

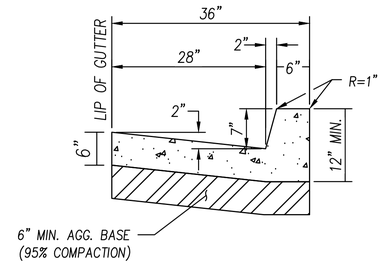
PLOT STAMP: Login Name: jsantacr
Plot Date: July 02, 2026 - 5:14 pm



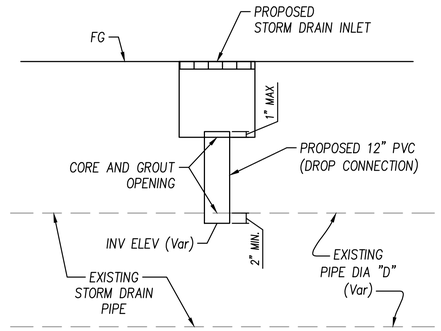
1 - VERTICAL CURB TO ROLLED CURB TRANSITION
NTS



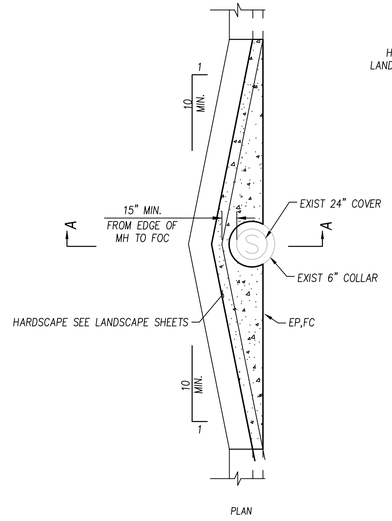
4 - CONCRETE COLLAR DETAIL
NTS

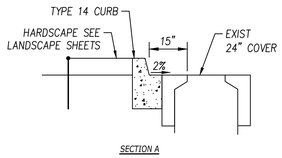


5 - MODIFIED TYPE 2 CURB AND GUTTER DETAIL
NTS

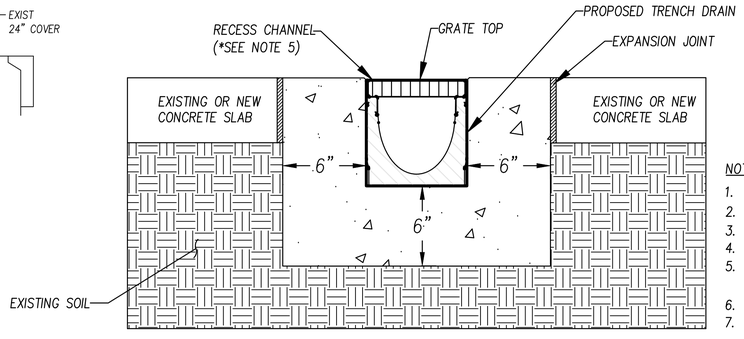


6 - STORM DRAIN (DROP CONNECTION) DETAIL
NTS



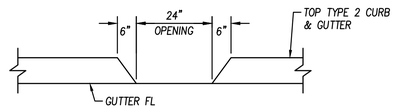


2 - CURB AND GUTTER NOTCH DETAIL
NTS

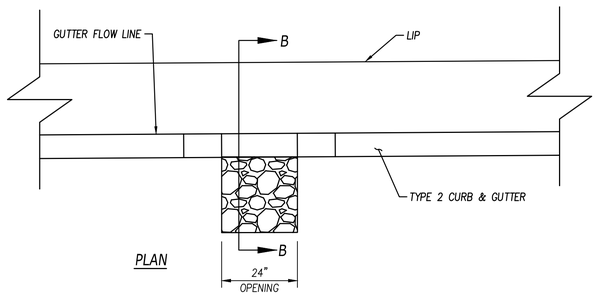


7 - TRENCH DRAIN DETAIL
NTS

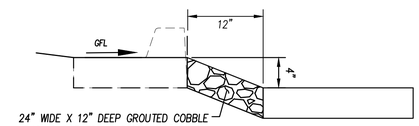
NOTES
1. INSTALL TRENCH DRAIN IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
2. PROVIDE EXPANSION AND CONTRACTION (CONTROL) JOINTS AS REQUIRED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
4. CONSOLIDATE CONCRETE BY VIBRATION DURING PLACEMENT TO ELIMINATE VOIDS AND AIR POCKETS.
5. SET TOP OF GRATE 1/8 INCH BELOW ADJACENT FINISHED SURFACE FOR PEDESTRIAN AREAS AND 1/4 INCH BELOW ADJACENT FINISHED SURFACE FOR VEHICULAR TRAFFIC AREAS.
6. MAINTAIN CONTINUOUS LINE AND GRADE OF TRENCH DRAIN DURING INSTALLATION.
7. SECURE GRATES IN PLACE PRIOR TO CONCRETE PLACEMENT.



SECTION A-A



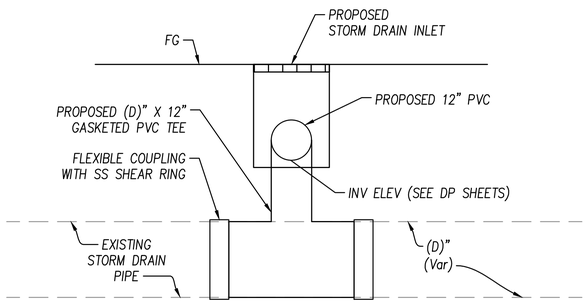
PLAN

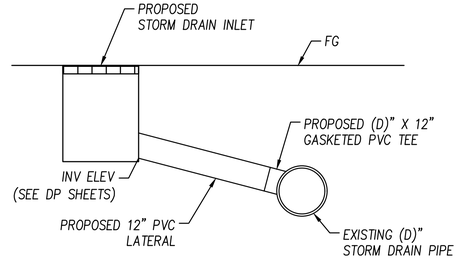


24" WIDE X 12" DEEP GROUTED COBBLE PAD. PLACE TOP COBBLES 0.5" BELOW FLOW LINE @ BACK OF CURB & 4" BELOW FLOW LINE @ 12" BACK OF CURB.

SECTION B-B

3 - CURB OPENING DETAIL
NTS





8 - STORM DRAIN (TEE CONNECTION) DETAILS
NTS

NOTES
1. D = EXISTING PIPE DIAMETER. SEE PLAN.
2. POTHOLE AND VERIFY EXISTING PIPE SIZE, MATERIAL, OD, INVERT, AND CONDITION PRIOR TO ORDERING FITTINGS. NOTIFY ENGINEER OF DISCREPANCIES.
3. TEE SHALL BE A GASKETED PVC FITTING (ASTM D3034/F679), OR APPROVED EQUAL.
4. CUT EXISTING PIPE SQUARE AND REJOIN WITH FLEXIBLE COUPLINGS WITH STAINLESS STEEL SHEAR RINGS, SIZED FOR ACTUAL PIPE ODs AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. ROLL TEE BRANCH TO MATCH LATERAL ALIGNMENT, AT OR ABOVE SPRINGLINE. LATERAL SHALL NOT PROTRUDE INTO EXISTING PIPE.
6. PROVIDE UNIFORM BEDDING BENEATH TEE AND COUPLINGS PER TRENCH DETAIL.
7. GROUT LATERAL CONNECTION AT INLET WALL WATERTIGHT.

CAD FILE: XREFS: BDR-JA3019_A1_22x34 | PE STAMP_JR
File Name: P:\Proj\JA3019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\JA3019_10 - D-1 - STANDARD DETAILS.dwg

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

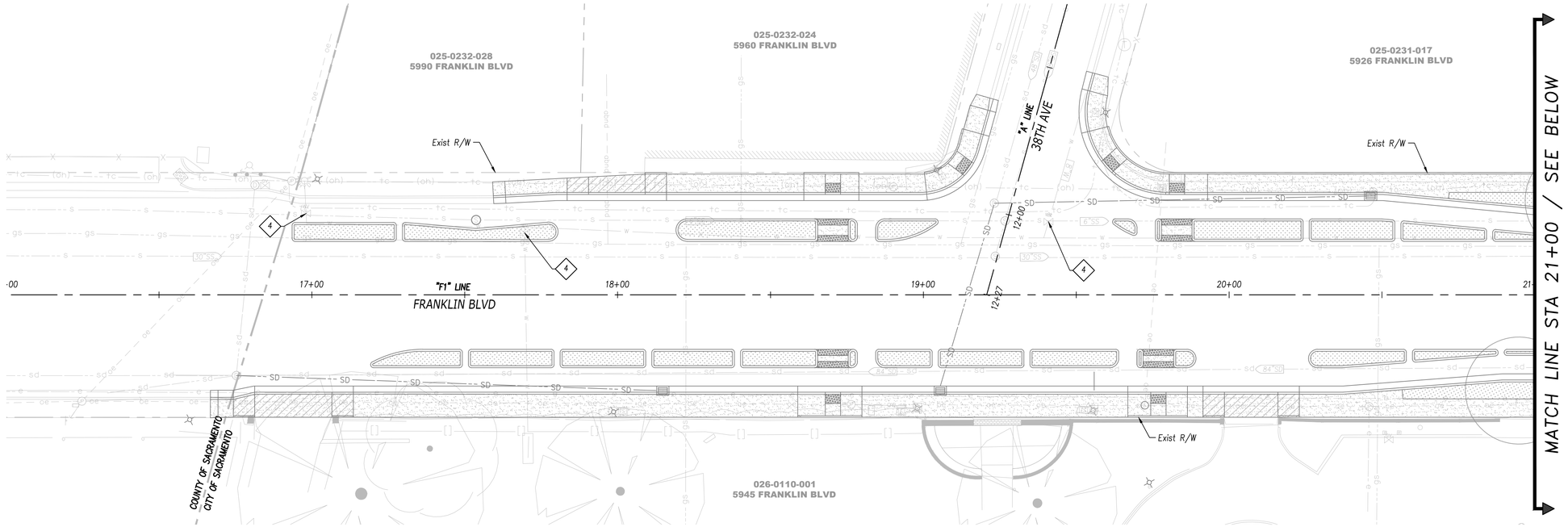
CONSTRUCTION DETAILS

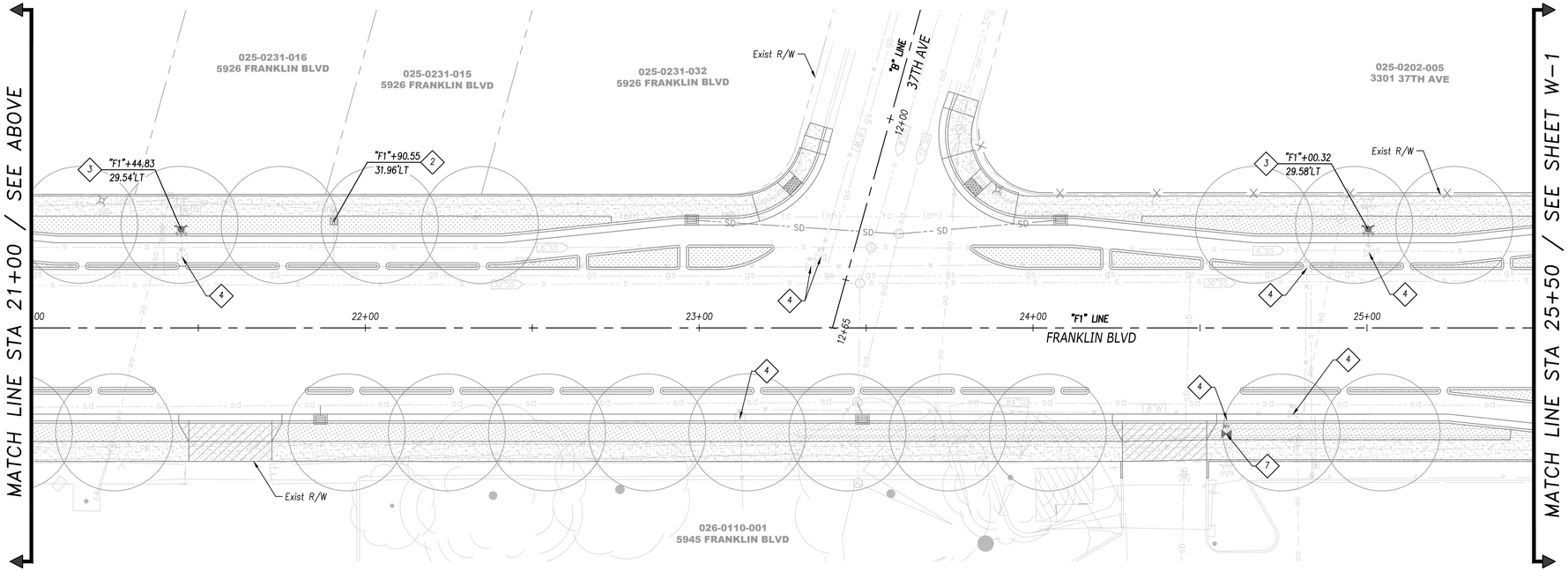
T15165503

DWG. NO. D-1
SHEET 34 OF 95

REGISTERED PROFESSIONAL ENGINEER LEONARDO N. RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026





CONSTRUCTION NOTES:

1. RELOCATE SERVICE LINE AND INSTALL WATER METER BOX PER CITY STD DWG W-401 AND W-402
2. INSTALL WATER METER BOX AND CONNECT TO EXISTING SERVICE LINE PER CITY STD DWG W-401 AND W-402
3. RELOCATE EXISTING HYDRANT LEAD AND FIRE HYDRANT PER CITY STD DWG W-201
4. WATER VALVE BOX, ADJUST TO GRADE, PER CITY STD DWG W-306
5. RELOCATE EXISTING FIRE HYDRANT AND INSTALL NEW TAP PER CITY STD DWG W-201. CONTRACTOR TO REMOVE EXISTING TEE.
6. WATER METER BOX, ADJUST TO GRADE
7. INSTALL WATER VALVE AND BOX PER CITY STD DWG W-303

CONSTRUCTION LEGEND:

- CONCRETE
- LANDSCAPE OR HARDSCAPE
- DRIVEWAY

NOTES:

1. STATIONING REFERS TO "F1" LINE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL RESTORE PAVEMENT AND/OR CONCRETE IMPACTED BY WORK REQUIRED TO COMPLETE THE PROJECT.
3. CONTRACTOR TO PROTECT ALL UTILITIES IN PLACE, UNLESS OTHERWISE NOTED.
4. UTILITY INFORMATION SHOWN IS APPROXIMATE BASED ON SOURCES OF VARYING RELIABILITY. CONTRACTOR SHALL POSITION/LOCATE ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION.
5. FOR UTILITY DATA, SEE LAYOUT SHEETS.

PLOT STAMP: Login Name: kamradov, Plot Date: July 02, 2026 - 4:17 pm

CAD FILE: W#'S: BGR-243019_JI_22x34 | 243019_XR-BASEMAP | 243019_XR-TOPO | 243019_XR-UTIL | 243019_XR-SITE | 243019_XR-HATCH | PE STAMP_LR | 243019_XR-BASE_IMG | x243019_XR-G | x243019_XR-AERIAL

File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_11 - W-1 - WATER PLANS.dwg

NOT FOR CONSTRUCTION
60% SUBMITTAL
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C.RAGANIT DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
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Roseville, California 95661
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

WATER PLANS

T15165503

DWG. NO. W-1
SHEET 35 OF 95

PLOT STAMP: Login Name: lamadeo
Plot Date: July 02, 2026 - 4:17 pm

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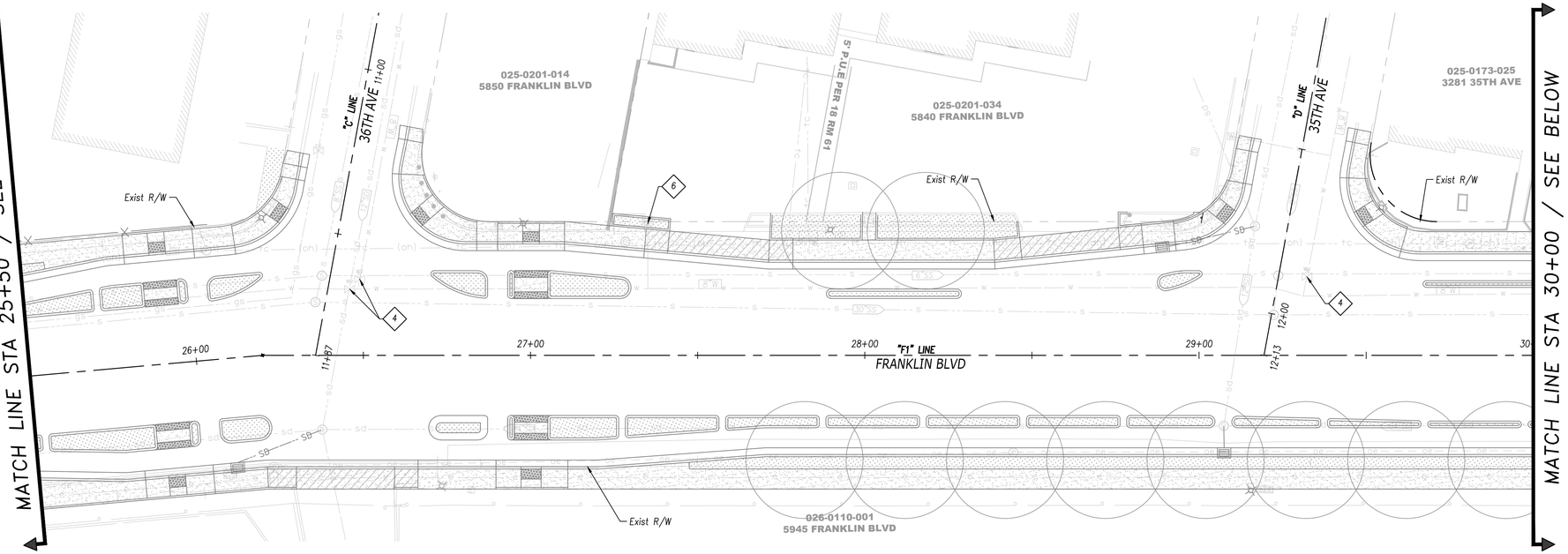
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_11 - W-1 - WATER PLANS.dwg

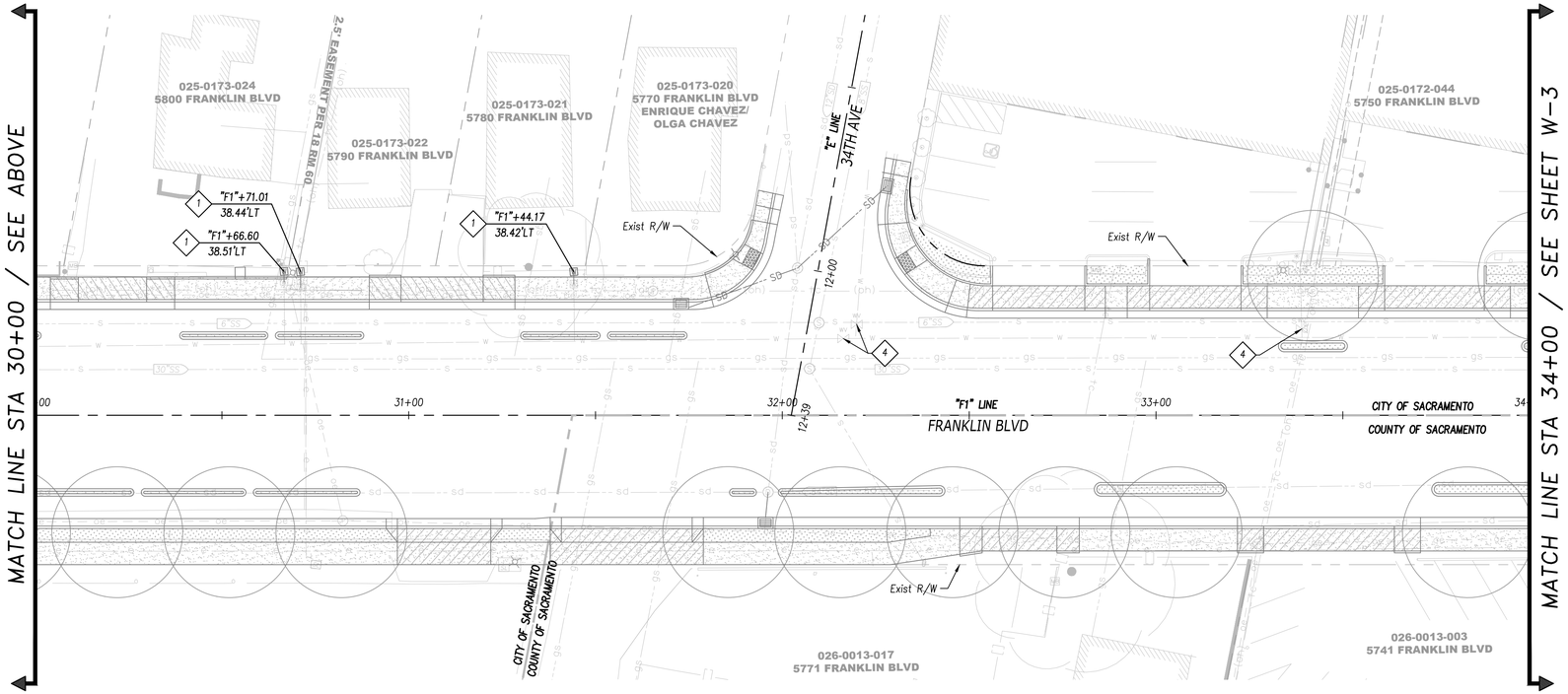
MATCH LINE STA 25+50 / SEE SHEET W-1

MATCH LINE STA 30+00 / SEE BELOW



MATCH LINE STA 30+00 / SEE ABOVE

MATCH LINE STA 34+00 / SEE SHEET W-3



CONSTRUCTION NOTES:

1. RELOCATE SERVICE LINE AND INSTALL WATER METER BOX PER CITY STD DWG W-401 AND W-402
2. INSTALL WATER METER BOX AND CONNECT TO EXISTING SERVICE LINE PER CITY STD DWG W-401 AND W-402
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5. RELOCATE EXISTING FIRE HYDRANT AND INSTALL NEW TAP PER CITY STD DWG W-201. CONTRACTOR TO REMOVE EXISTING TEE.
6. WATER METER BOX, ADJUST TO GRADE
7. INSTALL WATER VALVE AND BOX PER CITY STD DWG W-303

CONSTRUCTION LEGEND:

- CONCRETE
- LANDSCAPE OR HARDSCAPE
- DRIVEWAY

NOTES:

1. STATIONING REFERS TO "F1" LINE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL RESTORE PAVEMENT AND/OR CONCRETE IMPACTED BY WORK REQUIRED TO COMPLETE THE PROJECT.
3. CONTRACTOR TO PROTECT ALL UTILITIES IN PLACE, UNLESS OTHERWISE NOTED.
4. UTILITY INFORMATION SHOWN IS APPROXIMATE BASED ON SOURCES OF VARYING RELIABILITY. CONTRACTOR SHALL POSITION/LOCATE ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION.
5. FOR UTILITY DATA, SEE LAYOUT SHEETS.

20 0 20 40
SCALE IN FEET

LICENSED PROFESSIONAL ENGINEER LOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C.RAGANIT DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
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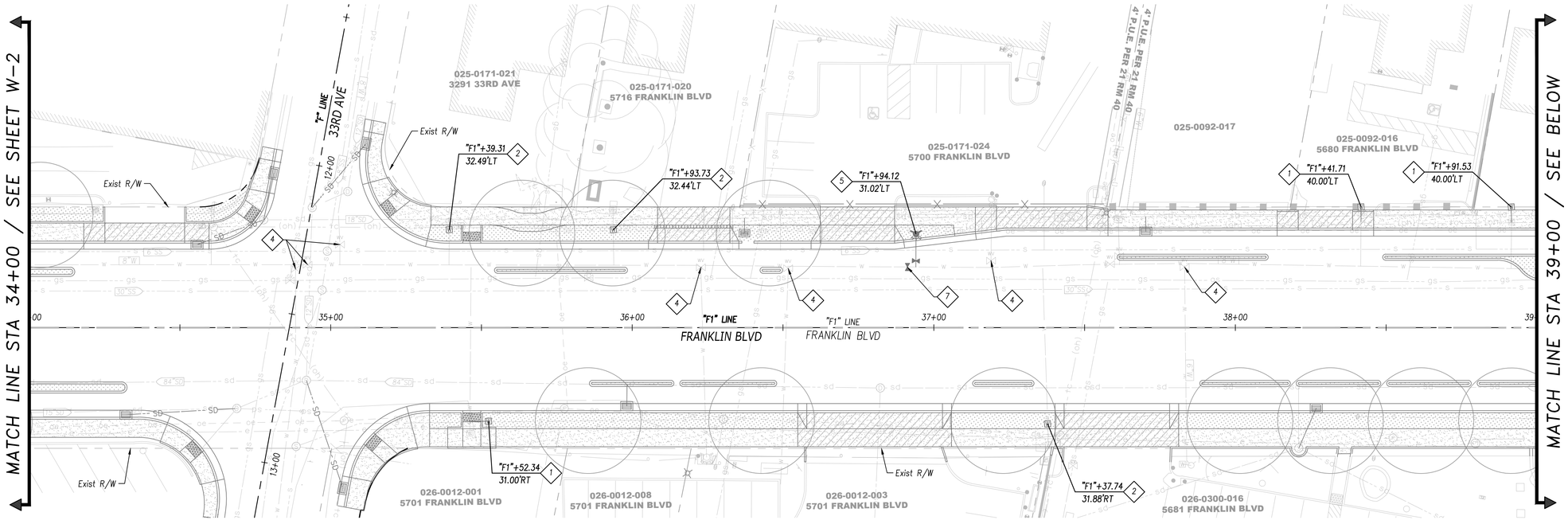
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3
T15165503
WATER PLANS

T15165503
DWG. NO. W-2
SHEET 36 OF 95



CONSTRUCTION NOTES:

1. RELOCATE SERVICE LINE AND INSTALL WATER METER BOX PER CITY STD DWG W-401 AND W-402
2. INSTALL WATER METER BOX AND CONNECT TO EXISTING SERVICE LINE PER CITY STD DWG W-401 AND W-402
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CONSTRUCTION LEGEND:

- CONCRETE
- LANDSCAPE OR HARDSCAPE
- DRIVEWAY

NOTES:

1. STATIONING REFERS TO "F1" LINE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL RESTORE PAVEMENT AND/OR CONCRETE IMPACTED BY WORK REQUIRED TO COMPLETE THE PROJECT.
3. CONTRACTOR TO PROTECT ALL UTILITIES IN PLACE, UNLESS OTHERWISE NOTED.
4. UTILITY INFORMATION SHOWN IS APPROXIMATE BASED ON SOURCES OF VARYING RELIABILITY. CONTRACTOR SHALL POSITION/LOCATE ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION.
5. FOR UTILITY DATA, SEE LAYOUT SHEETS.

20 0 20 40
SCALE IN FEET

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REGISTERED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

PLOT STAMP: Login Name: lgonzales Plot Date: July 02, 2026 - 4:17 pm

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REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C.RAGANIT
DATE JULY 2026
DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

BENEN
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3
T15165503
WATER PLANS

T15165503
DWG. NO. W-3
SHEET 37 OF 95

PLOT STAMP: Login Name: jamcadan
Plot Date: July 02, 2026 - 4:17 pm

CAD FILE: I:\Proj\2A3019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\2A3019_12 - CS-1 - CONSTRUCTION AREA SIGNS.dwg
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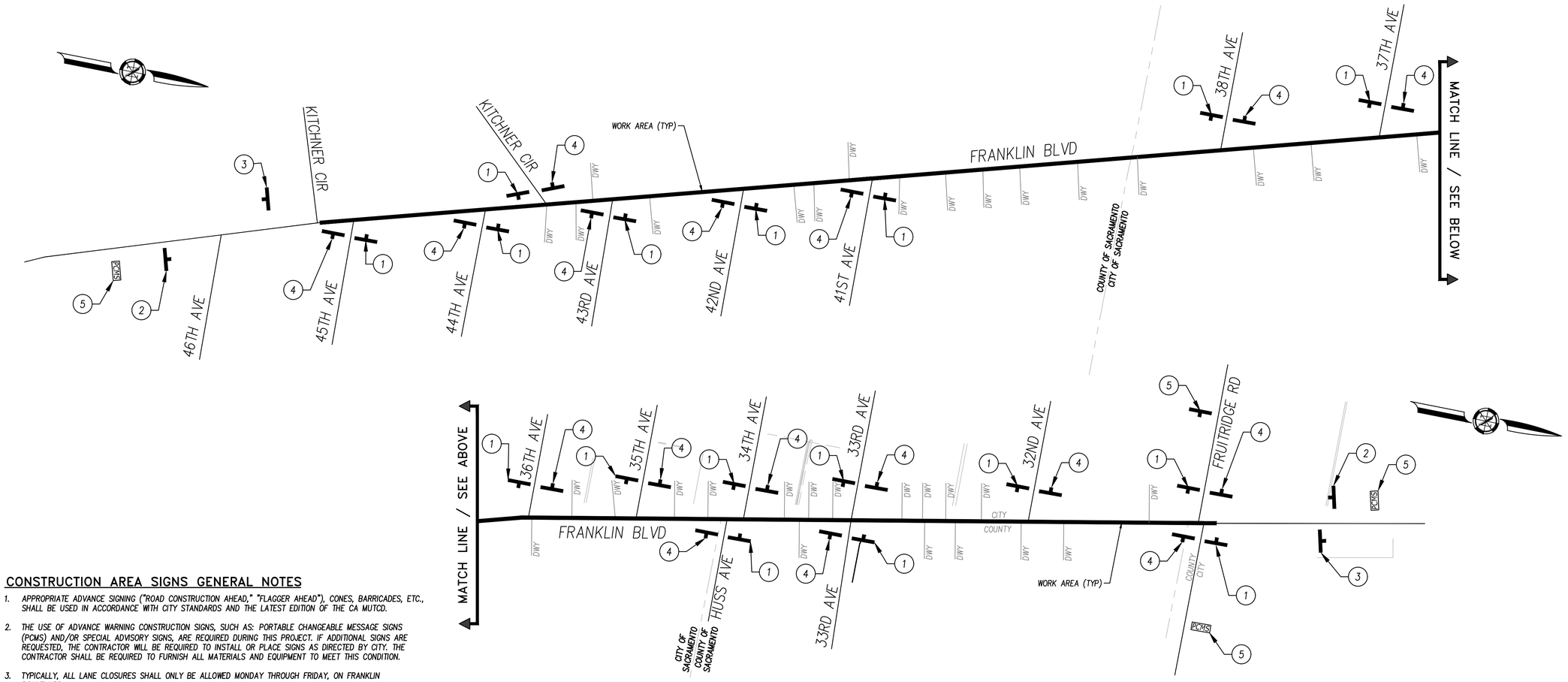


CONSTRUCTION AREA SIGNS GENERAL NOTES

1. APPROPRIATE ADVANCE SIGNING ("ROAD CONSTRUCTION AHEAD," "FLAGGER AHEAD"), CONES, BARRICADES, ETC., SHALL BE USED IN ACCORDANCE WITH CITY STANDARDS AND THE LATEST EDITION OF THE CA MUTCD.
2. THE USE OF ADVANCE WARNING CONSTRUCTION SIGNS, SUCH AS: PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AND/OR SPECIAL ADVISORY SIGNS, ARE REQUIRED DURING THIS PROJECT. IF ADDITIONAL SIGNS ARE REQUESTED, THE CONTRACTOR WILL BE REQUIRED TO INSTALL OR PLACE SIGNS AS DIRECTED BY CITY. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS AND EQUIPMENT TO MEET THIS CONDITION.
3. TYPICALLY, ALL LANE CLOSURES SHALL ONLY BE ALLOWED MONDAY THROUGH FRIDAY, ON FRANKLIN BOULEVARD.
4. ALL TRAFFIC CONTROL FOR THIS PROJECT SHALL BE AS DESIGNATED ON THE APPROVED TRAFFIC CONTROL PLAN(S). IF CONSTRUCTION REQUIRES ADDITIONAL TRAFFIC RESTRICTIONS, CONTRACTOR SHALL SUBMIT A REVISED TRAFFIC CONTROL PLAN.
5. THE CITY SHALL FIRST APPROVE HOLIDAY, WEEKEND AND/OR DAY WORK NOT SPECIFIED IN THESE CONDITIONS. THIS SHALL BE DONE BEFORE COMMENCING WITH ANY CONSTRUCTION ACTIVITY OUTSIDE OF THE NORMAL HOURS SPECIFIED WITHIN THE STANDARD CONSTRUCTION SPECIFICATIONS OR SPECIAL CONDITIONS.
6. THE CONTRACTOR SHALL RETURN ALL REMOVED MARKINGS, SIGNS, POSTS, CONCRETE MEDIANS, LANDSCAPING, PAVEMENT, SIDEWALK, ETC., TO THE ORIGINAL LOCATION AND IN THE SAME CONDITION PRIOR TO REMOVAL. ALL TEMPORARY CONSTRUCTION STRIPING, MARKINGS, ETC., SHALL BE APPROVED IN WRITING, BY THE CITY, PRIOR TO REMOVAL. ALL PAINT USED TO MARK USA OR OTHER UTILITIES SHALL BE WATER-BASED AEROSOL PAINT OR CHALK BASED PAINTS.
7. ALL CONSTRUCTION RELATED SIGNS FOR THIS PROJECT SHALL BE AS SHOWN ON THE PLANS.
8. OVERNIGHT STORAGE OF MATERIALS AND EQUIPMENT SHALL ONLY BE PERMITTED ON CITY OF SACRAMENTO RIGHT-OF-WAY, IF APPROVED IN ADVANCE BY THE CITY OF SACRAMENTO, DEPARTMENT OF PUBLIC WORKS.
9. PROJECT LANES SHALL ONLY BE CLOSED OR PARTIALLY CLOSED AT THE WORK SITES. TRAFFIC CONTROL DEVICES AND WARNING SIGNS SHALL BE RELOCATED PERIODICALLY TO DESIGNATE LANE CLOSURE SECTIONS, AND PROVIDES MAXIMUM ALLOWABLE ACCESS TO LOCAL RESIDENTS AND BUSINESSES. ANY PARKING OR ACCESS LIMITATIONS SHALL BE COORDINATED WITH RESIDENTS, BUSINESSES LOCAL FIRE DEPARTMENT, SHERIFF'S OFFICE, CALIFORNIA HIGHWAY PATROL AND REGIONAL TRANSIT (IF APPLICABLE), SEVENTY-TWO HOURS IN ADVANCE OF LANE CLOSURES.
10. WHILE THE ROADWAY IS OPEN DURING NON-CONSTRUCTION PERIODS, NON-APPLICABLE SIGNS SHALL BE COVERED WITH BLACK PLASTIC OR REMOVED (W20-1, ETC.). SIGNS SHALL NOT BE ATTACHED TO EXISTING POLES OR TRAFFIC DEVICES WITHOUT APPROVAL, IN WRITING.
11. RESIDENT, BUSINESS, PEDESTRIAN AND BICYCLIST ACCESS SHALL BE MAINTAINED THROUGHOUT THE PROJECT AREA AT ALL TIMES.
12. CONTRACTOR SHALL COORDINATE ALL LANE CLOSURES WITH THE CITY 72-HOURS IN ADVANCE OF ANY LANE/ROAD CLOSURES.
13. ON-STREET PARKING MAY BE PROHIBITED AS NECESSARY AT THE WORK SITE, LOCAL RESIDENTS, SCHOOLS AND BUSINESSES ADJOINING THE PROJECT STREETS SHALL BE NOTIFIED SEVENTY-TWO HOURS IN ADVANCE OF ANY PARKING OR ACCESS LIMITATIONS.

CONSTRUCTION AREA SIGNS

(#)	SIGN TYPE	PANEL SIZE in. x in.	SIGN MESSAGE	POST SIZE in. x in.	NO. OF SIGNS
(1)	W20-1	36x36	ROAD WORK AHEAD	(S) 1- 4x4	17
(2)	W20-1	48x48	ROAD WORK AHEAD	(S) 1- 4x4	2
(3)	G20-2	60x24	END ROAD WORK	(S) 1- 4x4	2
(4)	G20-2	48x18	END ROAD WORK	(S) 1- 4x4	17
(5)	PCMS	-	CHANGEABLE MESSAGE	-	4*

* SEE CONSTRUCTION AREA SIGNS GENERAL NOTE 2.

LEGEND

SIGN NUMBER (NO)

SIGN LOCATION

PCMS LOCATION PCMS

CONSTRUCTION NOTES (THIS SHEET):

1. SIGN TYPE REFERENCES ARE FROM THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. SIGN LOCATIONS ARE APPROXIMATE ONLY. EXACT SIGN LOCATION TO BE DETERMINED BY CONTRACTOR IN THE FIELD.
3. "(S)" DENOTES STATIONARY MOUNTED SIGN.

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: N/A
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. VARNEDOE
DATE JULY 2026

DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026

CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

CONSTRUCTION AREA SIGNS

T15165503

DWG. NO. CS-1
SHEET 38 OF 95

PLOT STAMP: Login Name: lyamadas
Plot Date: July 02, 2026 - 4:14 pm

CAD FILE: XREFS: BMP-243019_H_25x24 | 243019_JR-SITE | 243019_JR-TOPO | 243019_JR-BASEMAP | 243019_JR-STRP | PE STAMP_JLR | 243019_JR-HATCH | 243019_JR-LIGHTING-FP | 243019_JR-SIGNAL-QTY | 243019_JR-SIGNAL-FP

File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\V1-PLANS\MASTERS\SHEETS\243019_L3 - PD-1 - PAVEMENT DELINEATION.dwg

SIGNING AND STRIPING GENERAL NOTES:

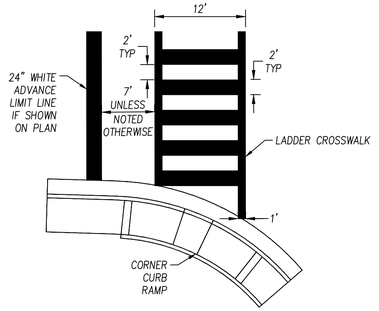
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SACRAMENTO DESIGN AND PROCEDURES MANUAL, DATED SEPTEMBER 2009, THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED NOVEMBER 2020, CALTRANS STANDARD PLANS, 2025 EDITION, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CURRENT EDITION.
2. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK WITHIN THE PUBLIC RIGHT OF WAY ONLY.
3. ALL EXISTING SIGNING TO REMAIN, UNLESS OTHERWISE NOTED. CONFLICTS BETWEEN EXISTING AND PROPOSED SIGNAGE SHALL BE RESOLVED BY THE ENGINEER.
4. PROTECT EXISTING STRIPING AND MARKINGS IN PLACE, EXCEPT FOR THOSE IN CONFLICT WITH PROPOSED STRIPING, AS DIRECTED BY THE ENGINEER.
5. ALL STRIPING AND MARKINGS SHALL BE THERMOPLASTIC, UNLESS NOTED OTHERWISE. 3M TAPE (OR APPROVED EQUIVALENT) SHALL BE USED ON CONCRETE SURFACES.
6. EXACT POSITION AND LOCATION OF ALL ROADSIDE SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. REMOVAL OF EXISTING STRIPING AND PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY APPROVED GRINDING METHOD.
8. CROSSWALKS SHALL BE 12 FEET WIDE INCLUDING THE 12" SOLID PAVEMENT MARKINGS AND SHALL BE WHITE UNLESS OTHERWISE NOTED.
9. ALL SIGNING AND STRIPING WORK SHALL BE COORDINATED WITH THE ELECTRICAL WORK AS DIRECTED BY THE ENGINEER.
10. LANE WIDTHS ADJACENT TO CURBS ARE MEASURED TO THE FACE OF CURB.
11. TRAFFIC SIGNS SHALL BE INSTALLED BEHIND THE SIDEWALK WHEN THE SIDEWALK IS IMMEDIATELY ADJACENT TO THE CURB. SIGNS SHALL BE INSTALLED BETWEEN THE CURB AND SIDEWALK WHEN THE SIDEWALK IS DETACHED. SIGNS IN PEDESTRIAN AREAS SHALL HAVE A CLEARANCE FROM THE GROUND OF AT LEAST SEVEN FEET. IF THIS CLEARANCE REQUIREMENT IS NOT SATISFIED AFTER THE INSTALLATION OF ADDITIONAL SIGN PANELS, CONTRACTOR SHALL INSTALL A NEW SIGN POST.
12. ALL ROADWAY SIGNS (REGULATORY, WARNING, GUIDE, SCHOOL ZONE AND OBJECT MARKERS) SHALL INCLUDE ASTM TYPE XI SHEETING. FOR ALL OTHER SIGNS, USE ASTM TYPE II SHEETING. FLUORESCENT YELLOW-GREEN SHALL NOT BE USED IN ANY SIGNS OTHER THAN SCHOOL RELATED SIGNAGE.
13. MOUNT SIGNS USING BANDING ON SIGNAL AND STREET LIGHT POLES WHERE FEASIBLE. SEE ELECTRICAL PLANS FOR POLE LOCATIONS.
14. CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE EXACT STREET NAME AND STREET ADDRESS FOR PLACEMENT ON STREET NAME SIGNS PRIOR TO ORDERING SIGNS.
15. ALL SIGNS REGULATING PARKING SHALL BE DOUBLE SIDED AND SIDE MOUNTED, UNLESS SHOWN OTHERWISE.
16. AT NEWLY SIGNALIZED LOCATIONS, REMOVE EXISTING STOP SIGNS, STOP LEGENDS AND STANCHIONS AT THE TIME SIGNAL IS TURNED ON.
17. CONTRACTOR SHALL DELIVER ALL REMOVED ROADWAY SIGNS TO THE CITY OF SACRAMENTO SOUTH AREA CORPORATION YARD AT 5730 24TH STREET, BLDG 10, 95822, PHONE (916) 808-4038
18. INSTALL FIRE HYDRANT BLUE REFLECTORS AT ALL FIRE HYDRANTS PER CAMUTCD STANDARDS.

LEGEND:

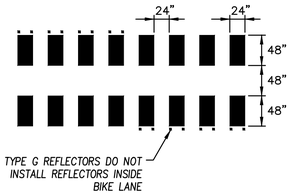
- ★ INSTALL ROADSIDE SIGN
- ▲ RELOCATE EXISTING SIGN (FROM / TO)
- ● EXISTING ROADSIDE SIGN TO REMAIN
- ♦ REMOVE ROADSIDE SIGN
- EXISTING ROADSIDE SIGN LOCATION
- PROPOSED ROADSIDE SIGN LOCATION (POST MOUNTED)
- [MAS] MAST ARM MOUNTED SIGN
- [SLS] STREET LIGHT MOUNTED SIGN
- ⟨##⟩ ## LF CA MUTCD STRIPING DETAIL NUMBER WITH LENGTH IN FEET
- ⟨##⟩ EXISTING STRIPING WITH CA MUTCD STRIPING DETAIL NUMBER
- BIKE LANE PAVEMENT MARKING PER MUTCD FIGURE 9C-3(B)
- BIKE LANE SYMBOL WITHOUT PERSON PAVEMENT MARKING PER CALTRANS STD PLAN A24C
- SHARED LANE PAVEMENT MARKING PER MUTCD FIGURE 9C-9
- TYPE IV ARROW (Lt OR Rt) PAVEMENT MARKING PER CALTRANS STD PLAN A24A
- TYPE I 10'-0" ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A
- TYPE VI ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A
- YIELD LINE PER CALTRANS STD PLAN A24G
- SPA SPACING
- STREET PARKING STALL MARKINGS

SIGN REMOVAL		
SIGN	QTY	SHEET
R26 (CA)	2	PD-3
SW24-1 (CA)	1	PD-4
R26 (CA)	3	PD-4
R26S (CA)	1	PD-4
R28 (CA)	4	PD-4
R81 (CA)	1	PD-4
SNS	1	PD-4
R28 (CA)	2	PD-5
R26S (CA)	4	PD-5
SNS	2	PD-5
R1-1	1	PD-5
TOTAL:	22	

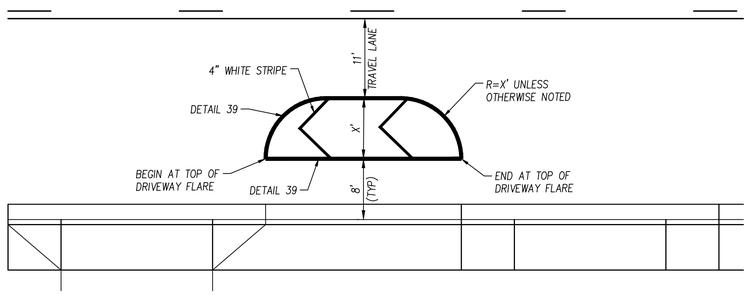
REMOVED SIGNS SHALL BE DELIVERED TO THE CITY OF SACRAMENTO SOUTH AREA CORPORATION YARD PER SIGNING AND STRIPING GENERAL NOTE 17



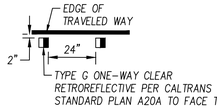
1 LADDER CROSSWALK
SCALE: N.T.S.



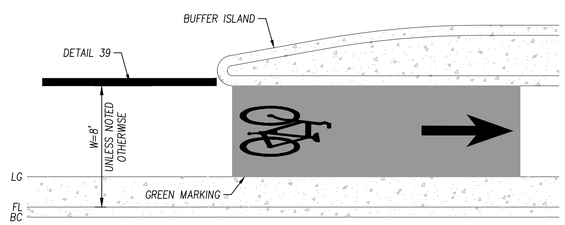
3 TRIPLE FOUR CROSSWALK
SCALE: N.T.S.

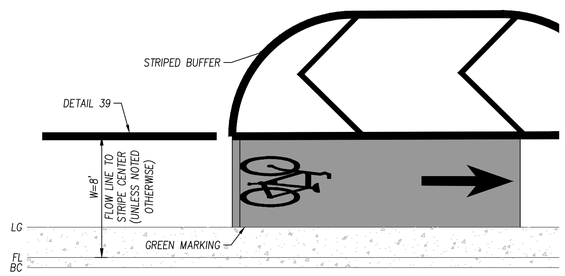


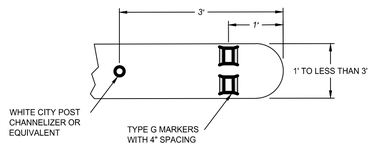
2 BUFFERED STRIPING
SCALE: N.T.S.

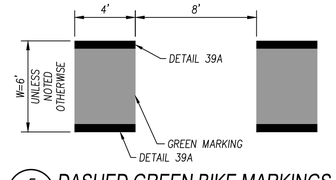


RIGHT EDGE RAISED PAVEMENT MARKERS DETAIL
4
SCALE: N.T.S.

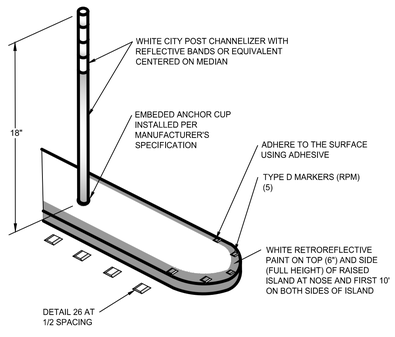




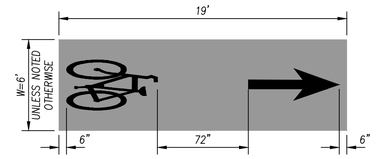




5 DASHED GREEN BIKE MARKINGS
SCALE: N.T.S.



6 MEDIAN END TREATMENT
SCALE: N.T.S.



7 BIKE LANE GREEN MARKING
SCALE: N.T.S.

LICENSED PROFESSIONAL ENGINEER LEOCADIO RUBIO NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B. HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: AS SHOWN
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

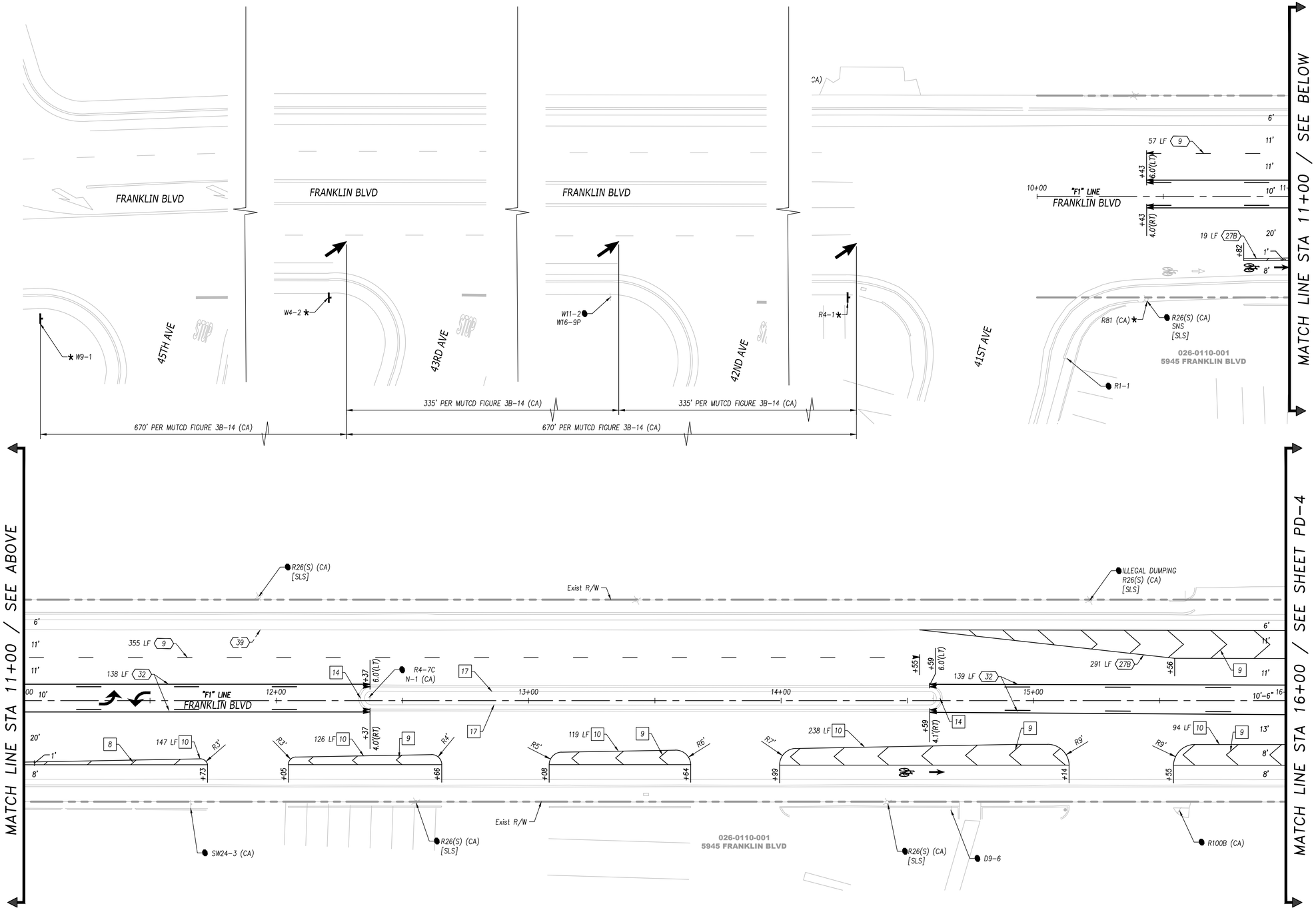
SIGNAGE AND STRIPING

T15165503

DWG. NO. PD-1
SHEET 39 OF 95

PLOT STAMP: Login Name: lamendez
Plot Date: July 02, 2026 - 4:14 pm

CAD FILE: XREFS: BOR-243019_JR-SITE | 243019_JR-TOPO | 243019_JR-BASEMAP | 243019_JR-STRIP | PE STAMP_LR | 243019_JR-HATCH | 243019_JR-LIGHTING-FP | 243019_JR-SIGNAL-CITY | 243019_JR-SIGNAL-FP
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_13 - PD-1 - PAVEMENT DELINEATION.dwg



STRIPING NOTES:

1. INSTALL 24" WHITE STRIPE 7' FROM CROSSWALK, UNLESS OTHERWISE NOTED. SEE DETAIL 1 ON SHEET PD-1
2. INSTALL LADDER CROSSWALK PER DETAIL 1 ON SHEET PD-1
3. INSTALL LADDER YELLOW CROSSWALK PER DETAIL 1 ON SHEET PD-1
4. INSTALL TRIPLE FOUR CROSSWALK PER DETAIL 3 ON SHEET PD-1
5. INSTALL 12" WHITE STRIPE
6. INSTALL DASHED GREEN BICYCLE LANE MARKINGS PER DETAIL 5 ON SHEET PD-1
7. INSTALL BIKE GREEN MARKING PER DETAIL 7 ON SHEET PD-1
8. INSTALL 4" WHITE DIAGONAL STRIPE 20' O.C.
9. INSTALL 4" WHITE 45° CHEVRON STRIPE 20' O.C.
10. INSTALL STRIPED BUFFER AREA PER DETAIL 2 ON SHEET PD-1
11. INSTALL RIGHT EDGE RAISED PAVEMENT MARKERS PER DETAIL 4 ON SHEET PD-1
12. INSTALL MEDIAN END TREATMENT FOR ISLANDS PER DETAIL 6 ON SHEET PD-1
13. INSTALL 4" WHITE SOLID STRIPE
14. INSTALL MEDIAN END TREATMENT FOR WIDE MEDIAN ISLAND NOSE PER CITY STD T-260
15. INSTALL MEDIAN END TREATMENT FOR WIDE MEDIAN ISLAND NOSE PER CITY STD T-260
16. INSTALL DETAIL 26 AT ½ SPACING ALONG RAISED MEDIAN ADJACENT TO VEHICLE TRAFFIC.

NOTES:

1. FOR ELECTRICAL WORK, SEE ELECTRICAL SHEETS.
2. SEE LAYOUT FOR LIMITS OF OVERLAY.
3. ALL PARKING SIGNS ARE TO BE SIDE MOUNTED.

PROFESSIONAL ENGINEER — LOCADIO ALBERTO RUBIO — NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
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Roseville, California 95661
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

SIGNAGE AND STRIPING
STA 6+00 to STA 16+00

T15165503

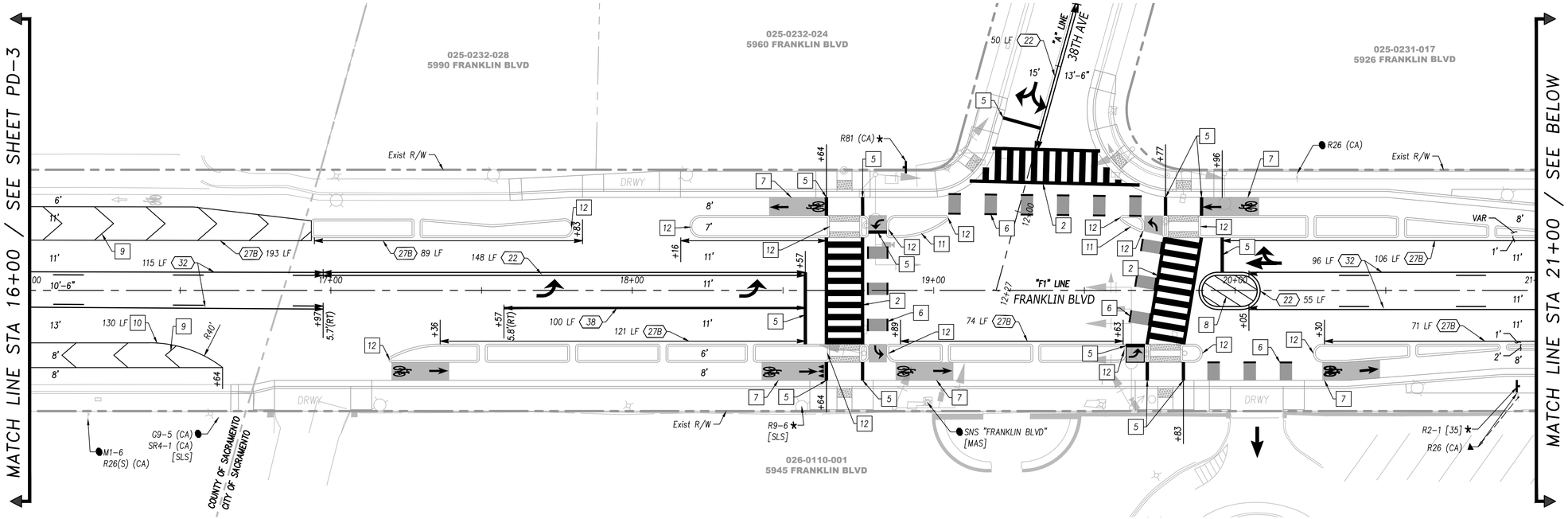
DWG. NO. PD-2
SHEET 40 OF 95

PLOT STAMP: Login Name: lyamadas
Plot Date: July 02, 2026 - 4:14 pm

CAD FILE: WBS: BOR-2A3019_JI_22x34 | 2A3019_JR-SITE | 2A3019_JR-TOPO | 2A3019_JR-BASEMAP | 2A3019_JR-STRIP | PE STAMP_LR | 2A3019_JR-HATCH | 2A3019_JR-LIGHTING-FP | 2A3019_JR-SIGNAL-FP
File Name: P:\Proj\2A3019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\2A3019_L3 - PD-1 - PAVEMENT DELINEATION.dwg

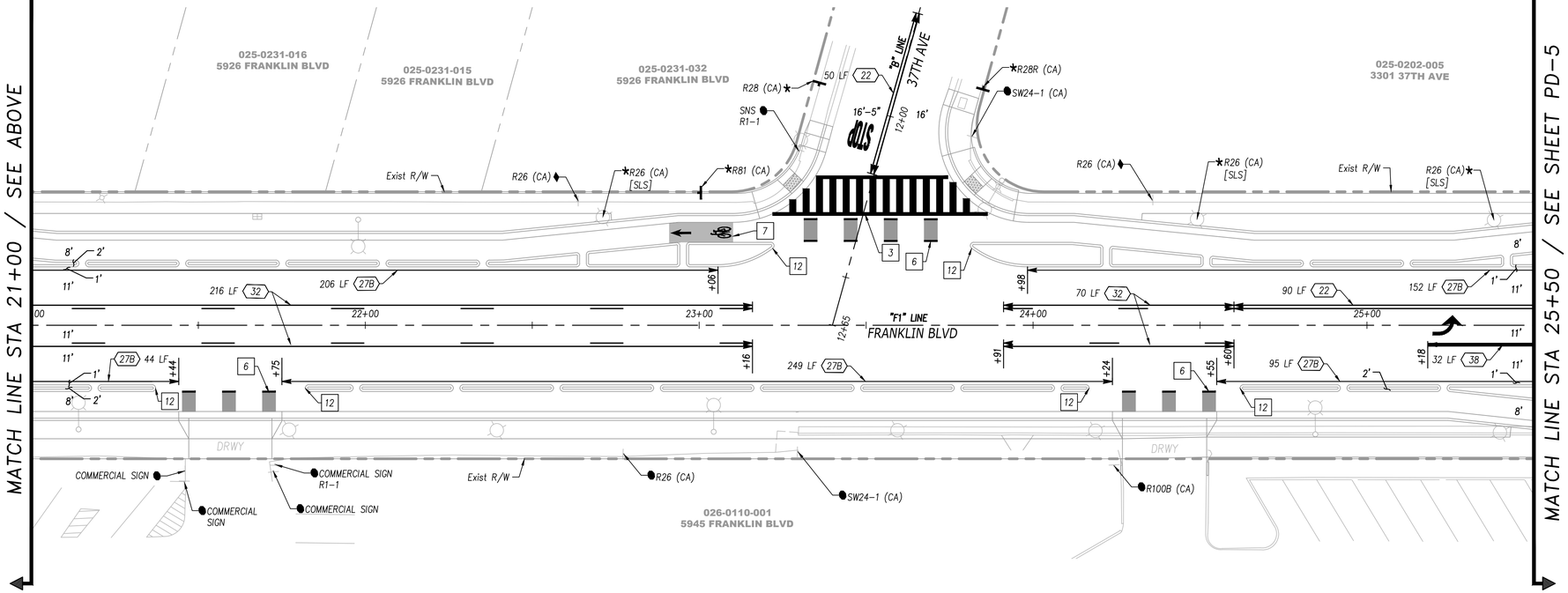
MATCH LINE STA 16+00 / SEE SHEET PD-3

MATCH LINE STA 21+00 / SEE BELOW



MATCH LINE STA 21+00 / SEE ABOVE

MATCH LINE STA 25+50 / SEE SHEET PD-5



STRIPING NOTES:

1. INSTALL 24" WHITE STRIPE 7' FROM CROSSWALK, UNLESS OTHERWISE NOTED. SEE DETAIL 1 ON SHEET PD-1
2. INSTALL LADDER CROSSWALK PER DETAIL 1 ON SHEET PD-1
3. INSTALL LADDER YELLOW CROSSWALK PER DETAIL 1 ON SHEET PD-1
4. INSTALL TRIPLE FOUR CROSSWALK PER DETAIL 3 ON SHEET PD-1
5. INSTALL 12" WHITE STRIPE
6. INSTALL DASHED GREEN BICYCLE LANE MARKINGS PER DETAIL 5 ON SHEET PD-1
7. INSTALL BIKE GREEN MARKING PER DETAIL 7 ON SHEET PD-1
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11. INSTALL RIGHT EDGE RAISED PAVEMENT MARKERS PER DETAIL 4 ON SHEET PD-1
12. INSTALL MEDIAN END TREATMENT FOR ISLANDS PER DETAIL 6 ON SHEET PD-1
13. INSTALL 4" WHITE SOLID STRIPE
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15. INSTALL MEDIAN END TREATMENT FOR WIDE MEDIAN ISLAND NOSE PER CITY STD T-260
16. INSTALL DETAIL 26 AT ½ SPACING ALONG RAISED MEDIAN ADJACENT TO VEHICLE TRAFFIC.

NOTES:

1. FOR ELECTRICAL WORK, SEE ELECTRICAL SHEETS.
2. SEE LAYOUT FOR LIMITS OF OVERLAY.
3. ALL PARKING SIGNS ARE TO BE SIDE MOUNTED.

20 0 20 40
SCALE IN FEET

NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE
DATE JULY 2026

DESIGN BY: C.ALLEN
R.C.E. No. 76694 DATE JULY 2026

CHECKED BY: L.RUBIO
R.C.E. No. 56895 DATE JULY 2026

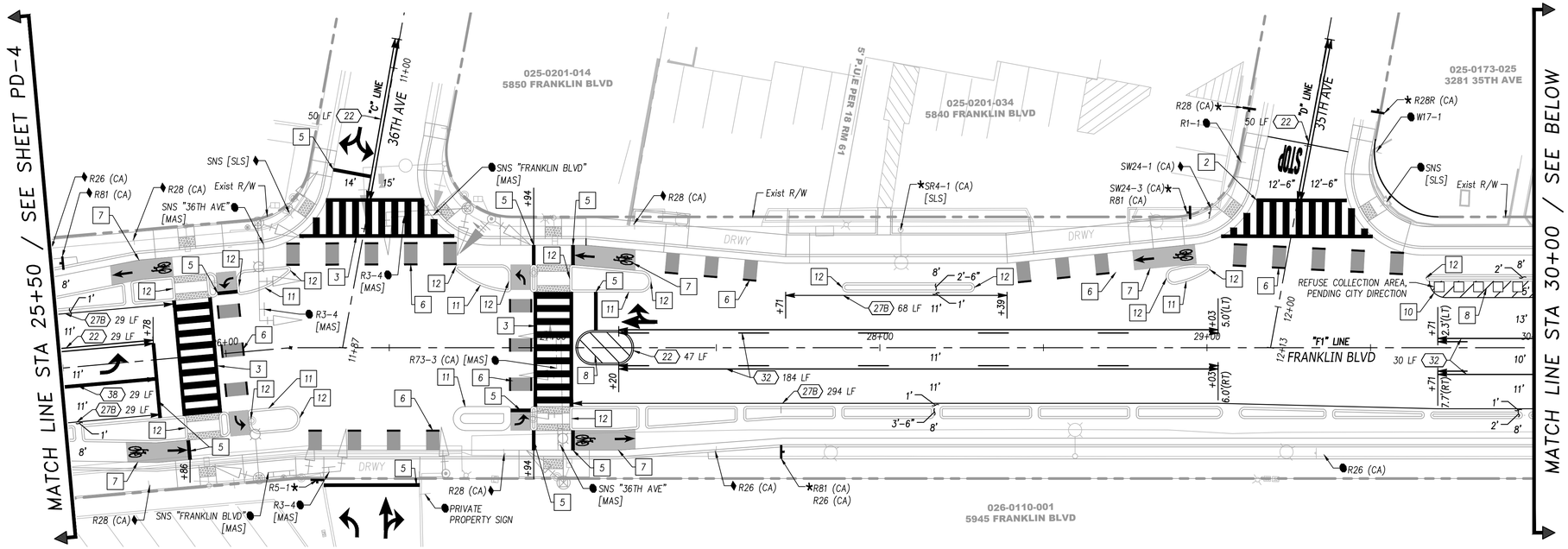
BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

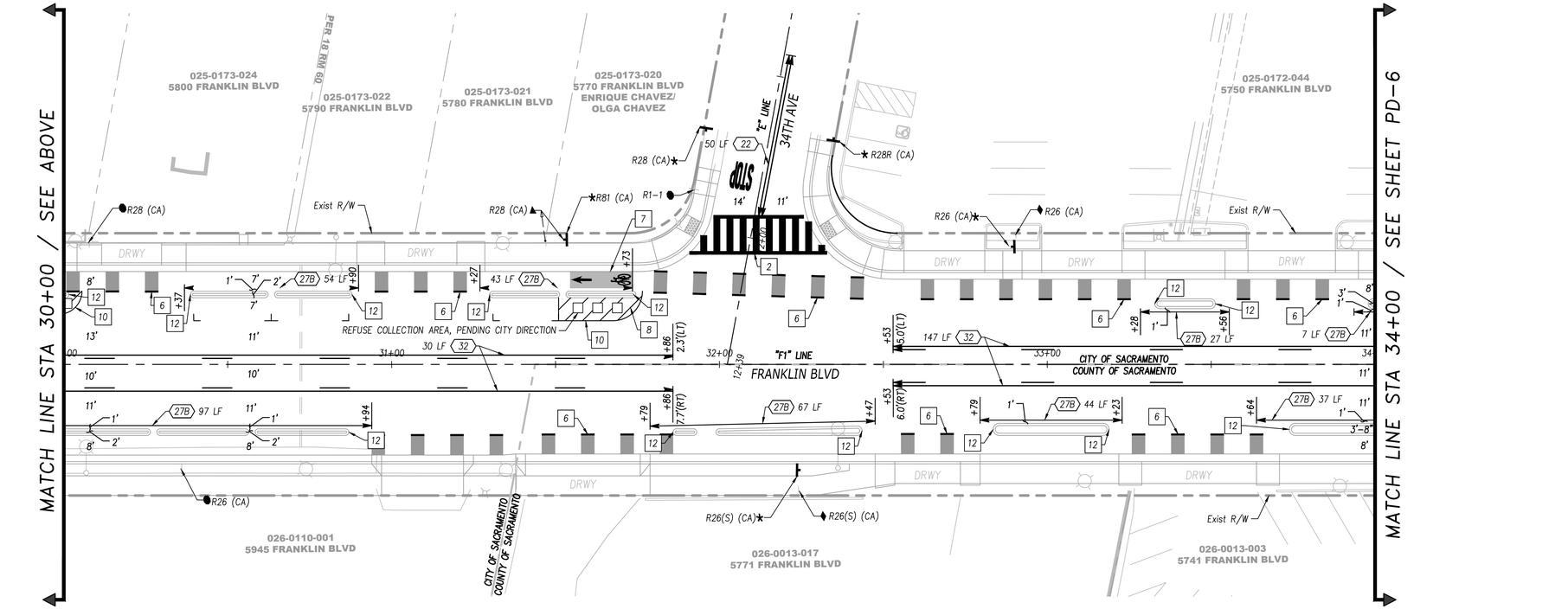
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

SIGNAGE AND STRIPING
STA 16+00 to STA 25+50

T15165503

DWG. NO. PD-3
SHEET 41 OF 95





STRIPING NOTES:

1. INSTALL 24" WHITE STRIPE 7' FROM CROSSWALK, UNLESS OTHERWISE NOTED. SEE DETAIL 1 ON SHEET PD-1
2. INSTALL LADDER CROSSWALK PER DETAIL 1 ON SHEET PD-1
3. INSTALL LADDER YELLOW CROSSWALK PER DETAIL 1 ON SHEET PD-1
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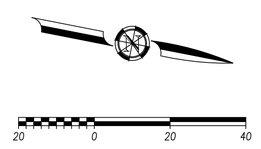
15. INSTALL MEDIAN END TREATMENT FOR WIDE MEDIAN ISLAND NOSE PER CITY STD T-260
16. INSTALL DETAIL 26 AT ½ SPACING ALONG RAISED MEDIAN ADJACENT TO VEHICLE TRAFFIC.

NOTES:

1. FOR ELECTRICAL WORK, SEE ELECTRICAL SHEETS.
2. SEE LAYOUT FOR LIMITS OF OVERLAY.
3. ALL PARKING SIGNS ARE TO BE SIDE MOUNTED.



PLOT STAMP: Login Name: lyonsdav
Plot Date: July 02, 2026 - 4:14 pm

CAD FILE: XREFS: BGR-243019_JI_22x34 | 243019_XR-SITE | 243019_XR-TOPO | 243019_XR-BASEMAP | 243019_XR-STRIP | PE STAMP_LR | 243019_XR-HATCH | 243019_XR-LIGHTING-FP | 243019_XR-SIGNAL-FP
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_L3 - PD-1 - PAVEMENT DELINEATION.dwg

NO. 56895
60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

SIGNAGE AND STRIPING
STA 25+50 to STA 34+00

T15165503
DWG. NO. PD-4
SHEET 42 — OF — 95

PLOT STAMP: Login Name: lyonsdav
Plot Date: July 02, 2026 - 4:14 pm

CAD FILE: WBFS: BDR-243019_JI_22x34 | 243019_JR-SITE | 243019_JR-TOPO | 243019_JR-BASEMAP | 243019_JR-STRIP | PE STAMP_LR | 243019_JR-HATCH | 243019_JR-LIGHTING-FP | 243019_JR-SIGNAL-FP
File Name: P:\Proj\243019-Sacramento-Franklin Blvd Phase 3\11-PLANS\MASTERS\SHEETS\243019_13 - PD-1 - PAVEMENT DELINEATION.dwg

MATCH LINE STA 34+00 / SEE SHEET PD-5

MATCH LINE STA 39+00 / SEE BELOW

MATCH LINE STA 39+00 / SEE ABOVE

FRANKLIN BLVD

"F1" LINE

"F2" LINE

7" LINE 33RD AVE

7" LINE 32ND AVE

13TH AVE

FRUITRIDGE AVE

CITY OF SACRAMENTO
COUNTY OF SACRAMENTO

025-0171-021
3291 33RD AVE

025-0171-020
5716 FRANKLIN BLVD

025-0171-024
5700 FRANKLIN BLVD

025-0092-017

025-0092-016
5680 FRANKLIN BLVD

026-0013-003
5741 FRANKLIN BLVD

026-0012-001
5701 FRANKLIN BLVD

026-0012-008
5701 FRANKLIN BLVD

026-0012-003
5701 FRANKLIN BLVD

026-0300-016
5681 FRANKLIN BLVD

025-0092-015
3254 32ND AVE

025-0091-017
5650 FRANKLIN BLVD

025-0091-016
5650 FRANKLIN BLVD

025-0091-015
5640 FRANKLIN BLVD
BEVERLY DALENE GUERARD

025-0091-014
5630 FRANKLIN BLVD

025-0091-013
5620 FRANKLIN BLVD

025-0091-012
5600 FRANKLIN BLVD

026-0300-008
5651 FRANKLIN BLVD
D KAMBOJ/ S KAUR LLC

026-0300-003
5615 FRANKLIN BLVD
ZERIMAR FAMILY TRUST

026-0300-001
5601 FRANKLIN BLVD
FRANKLIN BLVD LLC

STRIPING NOTES:

1. INSTALL 24" WHITE STRIPE 7' FROM CROSSWALK, UNLESS OTHERWISE NOTED. SEE DETAIL 1 ON SHEET PD-1
2. INSTALL LADDER CROSSWALK PER DETAIL 1 ON SHEET PD-1
3. INSTALL LADDER YELLOW CROSSWALK PER DETAIL 1 ON SHEET PD-1
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NOTES:

1. FOR ELECTRICAL WORK, SEE ELECTRICAL SHEETS.
2. SEE LAYOUT FOR LIMITS OF OVERLAY.
3. ALL PARKING SIGNS ARE TO BE SIDE MOUNTED.

SCALE IN FEET
20 0 20 40

PROFESSIONAL ENGINEER — REGISTERED TO PRACTICE IN CALIFORNIA — NO. 56895

60% SUBMITTAL
NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV 25.92 FT
DESCRIPTION
CITY OF SACRAMENTO BM 317-F4B.
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE. ELEVATION 25.92 NAVD88

FIELD BOOK

SCALE
HORIZ: 1"=20'
VERT: N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J.VARNEDOE DATE JULY 2026
DESIGN BY: C.ALLEN R.C.E. No. 76694 DATE JULY 2026
CHECKED BY: L.RUBIO R.C.E. No. 56895 DATE JULY 2026

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

SIGNAGE AND STRIPING
STA 34+00 to STA 44+00

T15165503

DWG. NO. PD-5

SHEET 43 —OF— 95

GENERAL CONSTRUCTION NOTES:

1. WRITTEN SPECIFICATIONS ARE A PART OF THESE CONSTRUCTION DOCUMENTS. DRAWINGS DO NOT CONTAIN ALL INFORMATION NECESSARY FOR CONSTRUCTION.
2. VERIFY LIMITS OF WORK, PROPERTY LINES AND LOTS LINES BEFORE STARTING WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CITY PRIOR TO THE START OF CONSTRUCTION SO THAT CLARIFICATION CAN BE ISSUED.
4. PRIOR TO BEGINNING OF WORK, VERIFY ALL SITE CONDITIONS INCLUDING UNDERGROUND UTILITIES AND ABOVE GRADE FEATURES SUCH AS GRADING, WALLS, FENCES, LIGHTING, OR OTHER STRUCTURES. CONTRACTOR TO NOTIFY THE CITY IMMEDIATELY IF ANY ERRORS OR DISCREPANCIES FROM THESE PLANS ARE FOUND, BEFORE PROCEEDING WITH ANY WORK.
5. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION OPERATIONS WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY HAVE NOT BEEN APPARENT DURING THE DESIGN PROCESS. BRING THESE CONDITIONS IMMEDIATELY TO THE ATTENTION OF THE CITY FOR RESOLUTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR COSTS INCURRED AND REQUIRED DUE TO LACK OF PROVIDING SUCH NOTIFICATION.
6. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICE RUNS, SUCH AS WATER SUPPLY, ELECTRICAL (OVERHEAD AND UNDERGROUND), TELEPHONE, SANITARY SEWER, ETC. SHOULD BE ASCERTAINED BEFORE WORK IS STARTED, WHERE THEY WILL BE AFFECTED BY EXCAVATION OR WHERE MACHINES MAY BE WORKING NEARBY, THEY SHOULD BE CAREFULLY SEALED, PROTECTED OR DIVERTED. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
7. WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND ACTUAL FIELD CONDITION, NOTIFY THE CITY BEFORE PROCEEDING WITH THE WORK.
8. PRIOR TO INSTALLATION OF ANY PAVING, REFER TO PROJECT'S GEOTECHNICAL REPORT. REPORT DISCREPANCIES BETWEEN GEOTECHNICAL REPORT'S RECOMMENDATIONS AND INFORMATION NOTED IN THE PAVING SCHEDULE, PAVING DETAILS OR PAVING SPECIFICATIONS BEFORE PROCEEDING WITH THE WORK.
9. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGE TO EXISTING CONDITIONS TO REMAIN (ON- OR OFF-SITE) RESULTING FROM OR RELATED TO THE WORK OF THIS PROJECT.
10. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, STATUTES AND ORDINANCES.
11. COORDINATE CONDUIT, SLEEVES AND EMBEDMENTS PRIOR TO ANY HARDSCAPE CONSTRUCTION.
12. DIMENSIONS ARE FROM FACE OF, OR OUTSIDE OF PAVING, WALLS, ETC., UNLESS OTHERWISE NOTED.
13. LOCATIONS OF FEATURES NOT SPECIFICALLY DIMENSIONED MAY BE DETERMINED BY SCALE. CONTACT THE CITY WHERE CONFLICT OCCURS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
14. PAVING MOCK-UPS ARE REQUIRED FOR ALL PAVING ON THIS PROJECT. REFER TO PAVING SCHEDULE, PAVING DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. OBTAIN APPROVAL OF THE CITY FOR ALL FORMS PRIOR TO PLACING CONCRETE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO PROTECT PERSONNEL AND ADJACENT PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL ADEQUATELY BRACE ELEMENTS OF THE STRUCTURE DURING CONSTRUCTION TO ENSURE THE SAFETY OF THE SITE AND/OR STRUCTURES.
17. THERE SHALL BE NO DEVIATIONS FROM STRUCTURAL DETAILS WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
18. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED OR OTHERWISE WEAKENED, EXCEPT AS ALLOWED BY THE UNIFORM BUILDING CODE.
19. CONTRACTOR SHALL SUBMIT COPIES OF ALL SHOP DRAWINGS TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION OF RELATED WORK AND ALLOW AMPLE TIME FOR THE CITY'S REVIEW AND COORDINATION.
20. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER FOR INFORMATION FURNISHED BY THE OWNER AND SHALL IMMEDIATELY REPORT ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED TO THE CITY. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE RESULTING FROM ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS IF THE CONTRACTOR FAILED TO REPORT IT TO THE CITY. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY DESPITE RECOGNITION OF SUCH AN ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR PROPORTIONAL COSTS FOR CORRECTION.
21. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
22. TRANSITIONS FROM EXISTING PAVING TO NEW PAVING SHALL BE FLUSH.
23. CONTRACTOR SHALL NOTIFY THE CITY WITHIN (4) WORKING DAYS PRIOR TO A CONTRACTOR-REQUESTED SITE MEETING. FAILURE TO PROVIDE APPROPRIATE LEAD TIME MAY RESULT IN CONTRACTOR BEING BACKCHARGED FOR OWNER'S REPRESENTATIVE'S TIME.
24. INSTALL EXPANSION JOINTS AS SHOWN ON PLANS AND WHEREVER PAVING ABUTS ANY VERTICAL SURFACE.
25. INSTALL CONCRETE THAT OBTAINS A MINIMUM COMPRESSIVE STRENGTH OF 2,500 P. S. I. AT 28 DAYS UNLESS OTHERWISE SPECIFIED. SUBMIT SAMPLE TO OWNER'S REPRESENTATIVE PRIOR TO LAYING OUT FORMS. INSTALL CONCRETE FLATWORK PER RECOMMENDATIONS OF GEOTECHNICAL REPORTS. IN CASE OF CONFLICT BETWEEN SOILS REPORT AND DETAILS, THE MOST STRINGENT REQUIREMENTS WILL APPLY.

LEGEND

- STAMPED COLORED CONCRETE PAVING
- STANDARD CONCRETE PAVING (MEDIUM BROOM FINISH)
- PLANTING AREA. REFER TO PLANTING PLAN SHEETS
- CONTINUOUS ROOT CONTROL BARRIER
- BOULEVARD WALL
- GATEWAY MONUMENT SIGN
- TRASH RECEPTACLE. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO SPECS.

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REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
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FIELD BOOK

SCALE
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VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: N.WILLING
DATE ####

DESIGN BY: J.LEAL
R.C.E. #### DATE ####

CHECKED BY: J.LEAL
R.C.E. #### DATE ####

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE MATERIALS PLAN NOTES
STA - to STA -

T15165503

DWG. NO. LM001

SHEET 44 OF 95

CAD FILE: File Name: Z:\Shared\Sacramento\02-Socto_Projects\030000-Socto_CEQS\030895-03-FBCS-PhIV\06-WORD\LM-00_MATL-030895-03.mx
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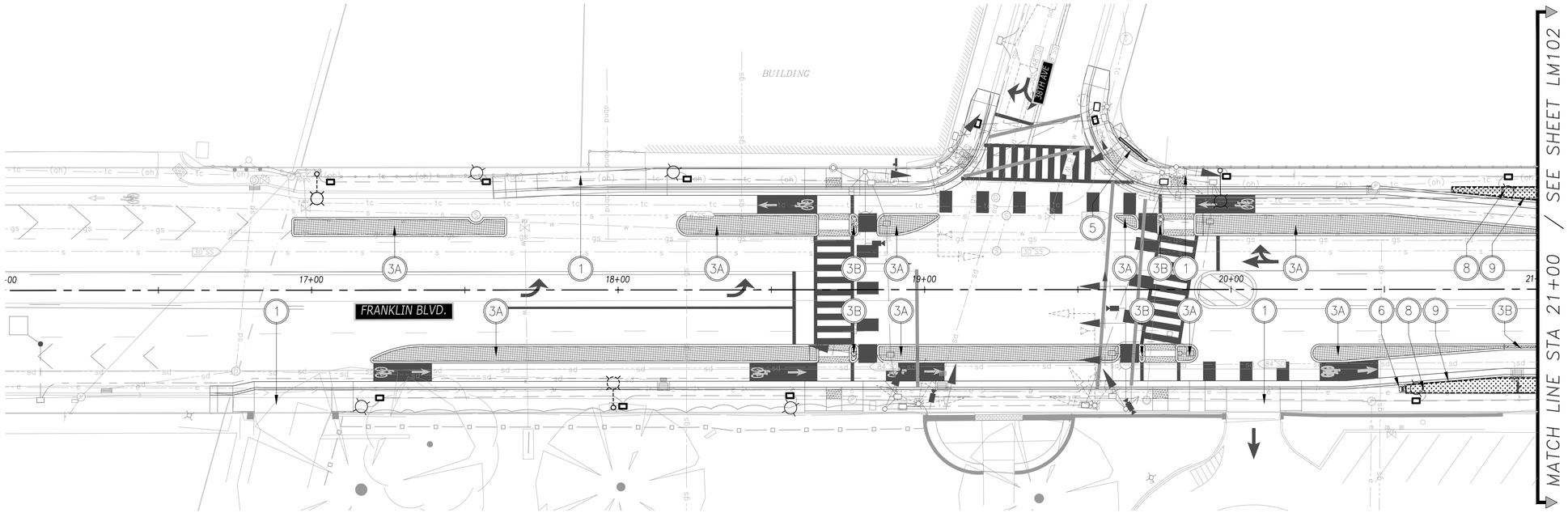
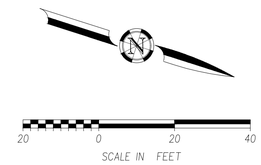


Know what's **below** **Call** before you dig.



CONSTRUCTION PLAN KEYED NOTES	
1	SIDEWALK, TYP. PER CIVIL DWGs. FINISH: PER CIVIL.
2A	-- NOT USED --
2B	PAVING, TYP. FINISH: STANDARD CONCRETE PAVING - MEDIUM BROOM FINISH. SLOPE PER CIVIL DWGs.
3A	SEPARATED BIKEWAY ISLAND, TYP. PER CIVIL DWGs. FINISH: COLORED CONCRETE STAMPED CONCRETE PAVING. REFER TO DETAIL 1 ON LANDSCAPE SHEET LM-501.
3B	SEPARATED BIKEWAY ISLAND, TYP. PER CIVIL DWGs. FINISH: STANDARD CONCRETE PAVING - MEDIUM BROOM FINISH.
4A	MEDIAN ISLAND, TYP. PER CIVIL DWGs. FINISH: COLORED CONCRETE STAMPED CONCRETE PAVING. REFER TO DETAIL 1 ON LANDSCAPE SHEET LM-501.
4B	-- NOT USED --
5	BOULEVARD ART WALL. REFER TO DETAIL 4 ON LANDSCAPE SHEET LM-501
6	GATEWAY FEATURE. REFER TO DETAIL 3 ON LANDSCAPE SHEET LM-502
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8	LANDSCAPE AREA. REFER TO LANDSCAPE IRRIGATION AND PLANTING PLANS.
9	CONTINUOUS ROOT CONTROL BARRIER AT ALL EDGES OF PLANTER AREA. 24-INCH DEPTH, TYP. INSTALL ADJACENT TO PAVING AND CURBS. REFER TO DETAIL 1 ON LANDSCAPE SHEET LM-502.

LEGEND

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- STANDARD CONCRETE PAVING (MEDIUM BROOM FINISH)
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DEPARTMENT OF PUBLIC WORKS

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE MATERIALS PLAN
STA 16+00 to STA 21+00

T15165503

DWG. NO. LM101
SHEET 45 OF 95

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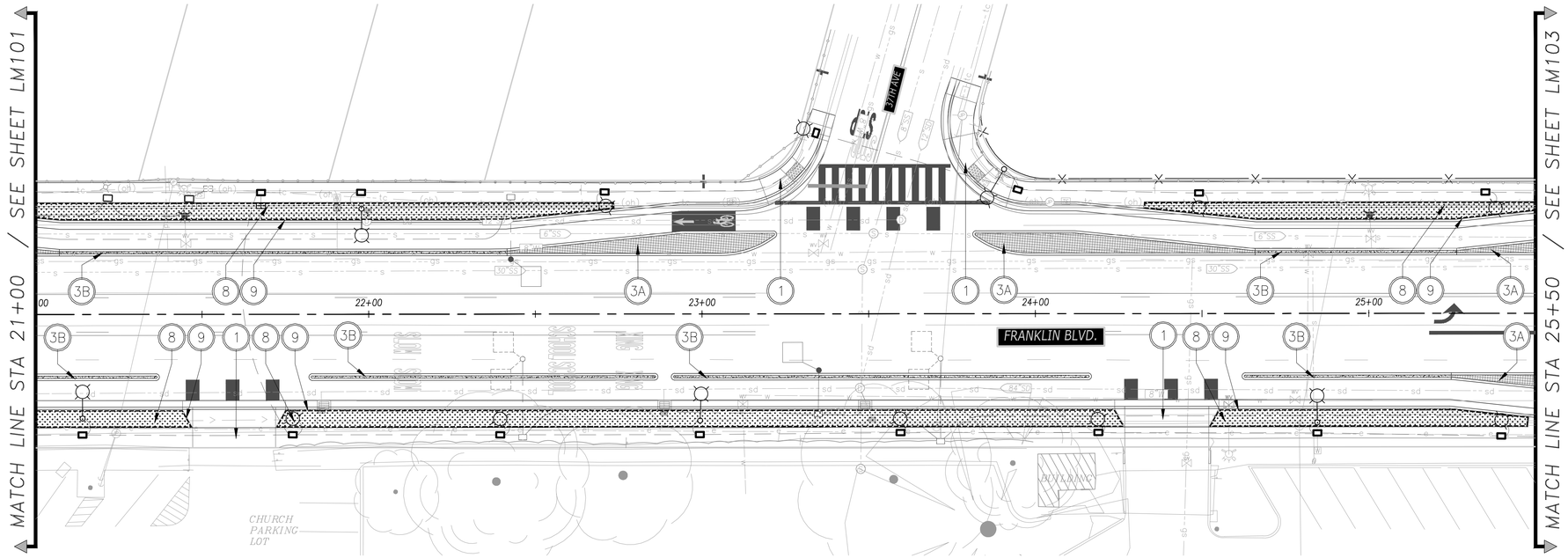

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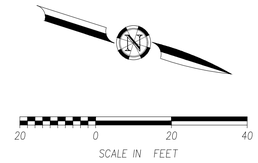

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4B	-- NOT USED --
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LEGEND

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- STANDARD CONCRETE PAVING (MEDIUM BROOM FINISH)
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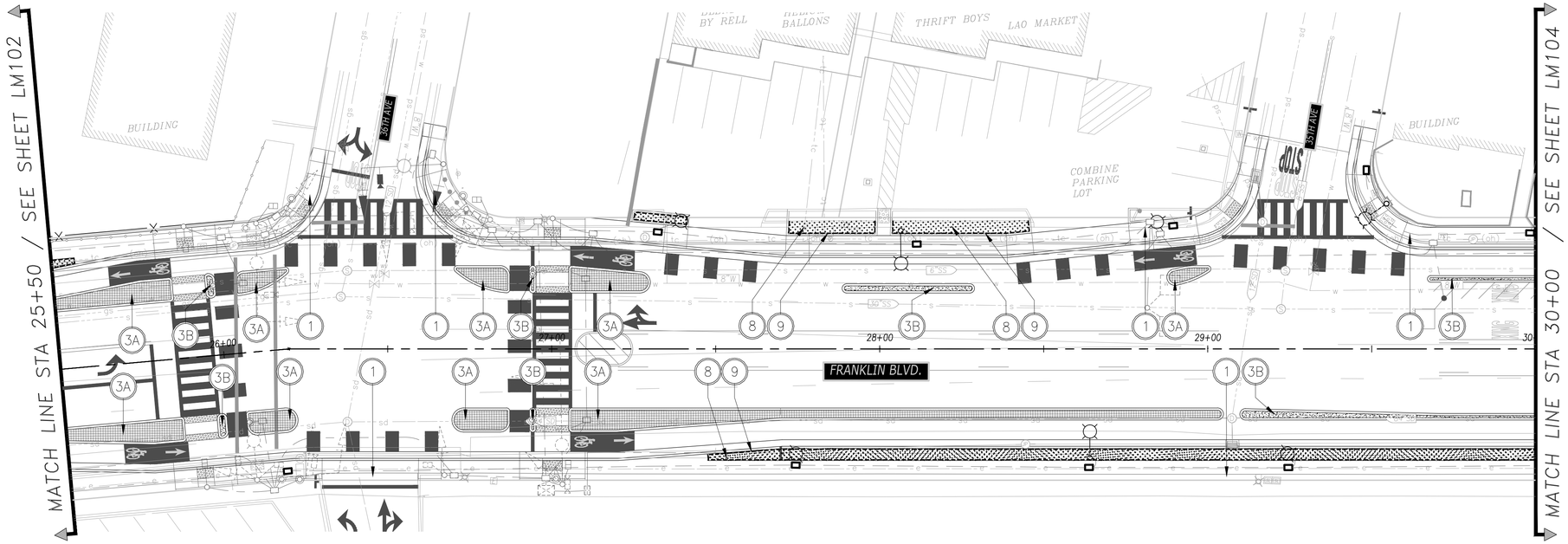

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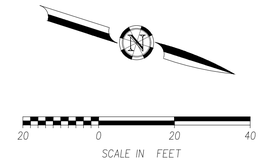

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IMPROVEMENT PLANS FOR
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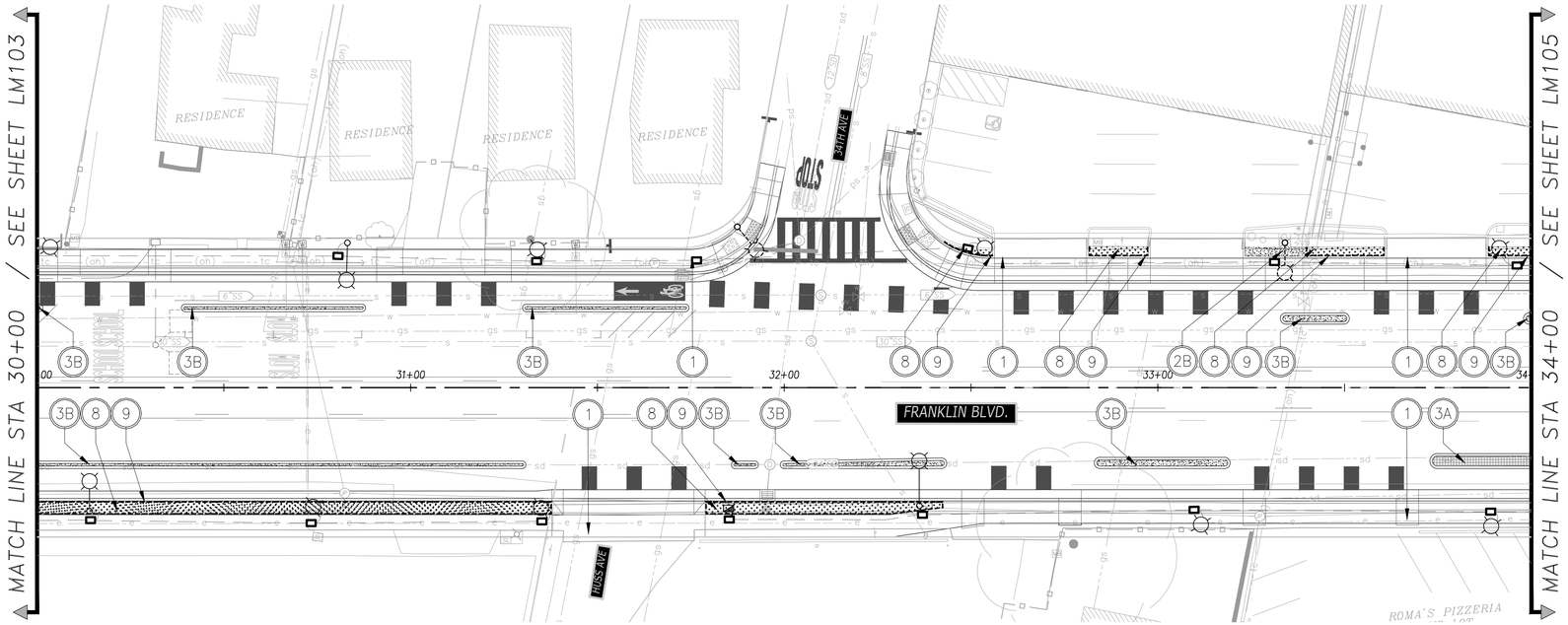
LANDSCAPE MATERIALS PLAN
STA 25+50 to STA 30+00

T15165503

DWG. NO. LM103
SHEET 47 OF 95



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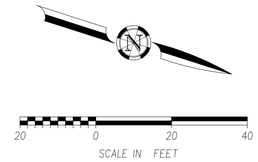

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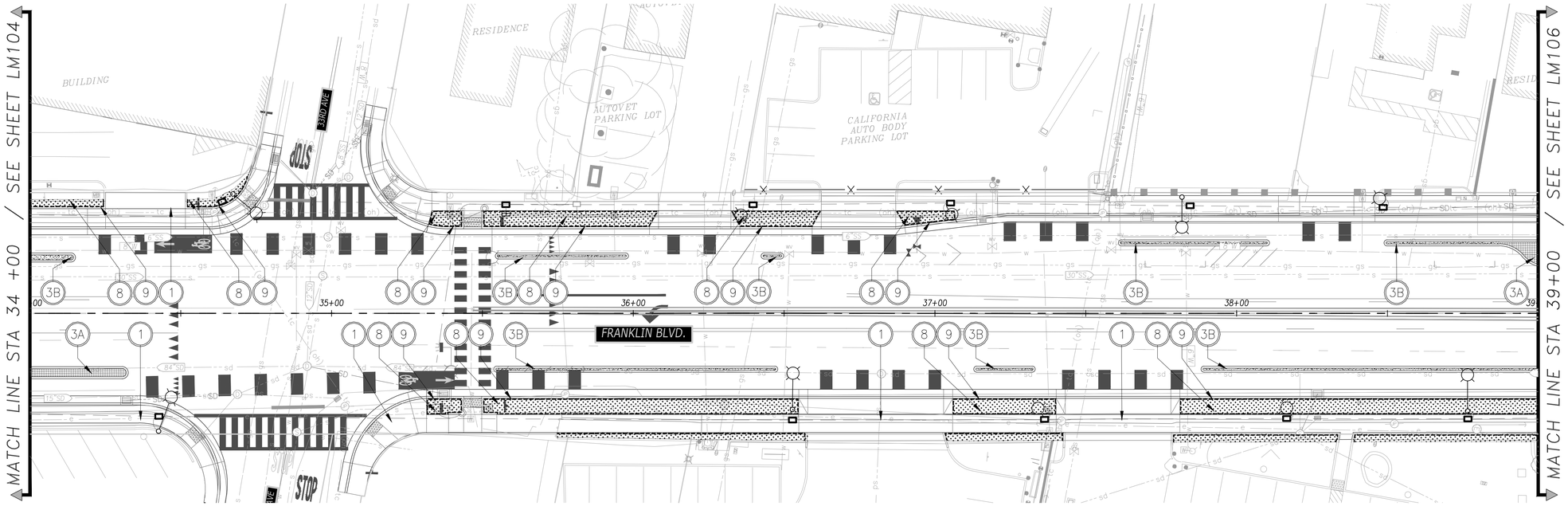
CAD FILE: XREFS: BKR-243019_H_22x34 | X-BASE_030895-03 | X-243019_XR-SITE | x243019_XR-AERIAL | DL_PAVE-CONC-SNAP-030895 | DL-PLNT-ROOT | DL_WALL_BLVD_030895 rev | DL_PAVE-CONC-JNTS_030895 | DL-ART-GWAY_30895-rev2 | x2301_XR-SITE | x2301_XR-AERIAL | DL_PAVE-CONC-SNAP-030895 | DL-PLNT-ROOT | DL_WALL_BLVD_030895 rev | DL_PAVE-CONC-JNTS_030895 | DL-ART-GWAY_30895-rev2 | x2301_XR-SITE | x243019



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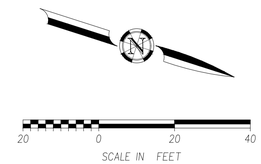

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LANDSCAPE MATERIALS PLAN
STA 34 +00 to STA 39+00

T15165503

DWG. NO. LM105
SHEET 49 OF 95

CAD FILE: XREFS: BKR-243019_H_22x34 | X-BASE_030895-03 | X-243019_XR-SITE | r243019_XR-AERIAL | DL_PAVE-CONC-STMP-030895 | DL-PLNT-ROOT | DL_WALL_BLVD_030895 rev | DL_030895 rev | DL_PAVE-CONC-ANTS_030895 | DL-ART-GWAY_30895-rev2 | r21301_XR-SITE | r21301_XR-BASEMAP | r243019_XR-APN | r243019_XR-UTIL | r243019
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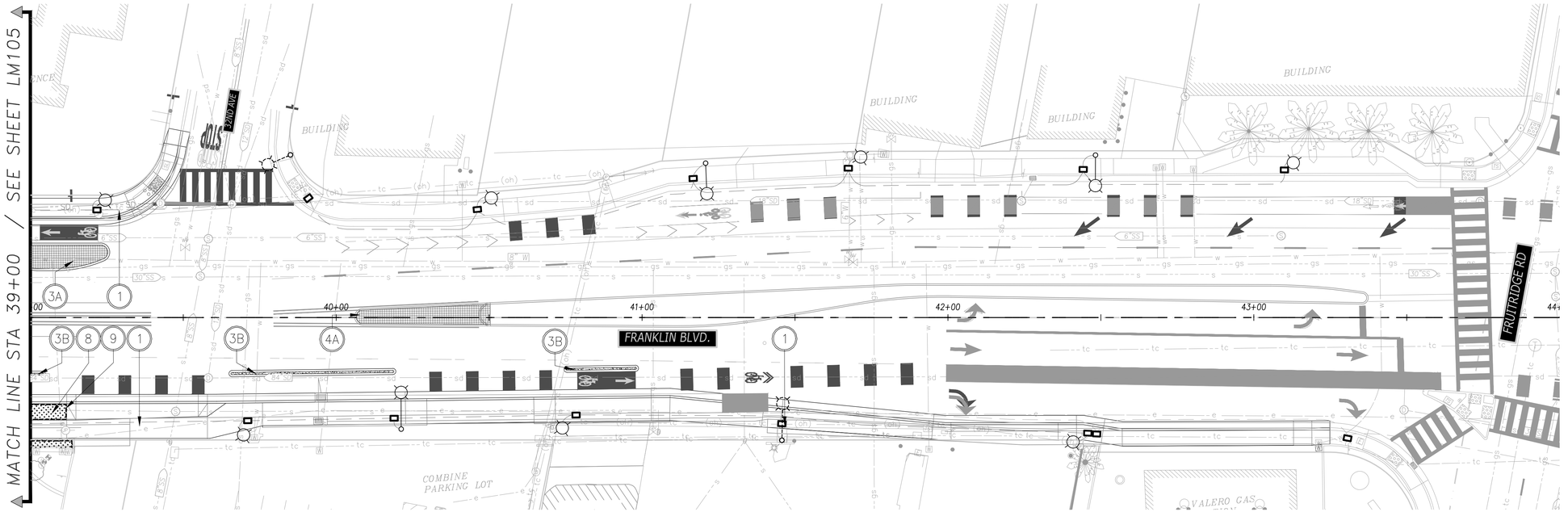
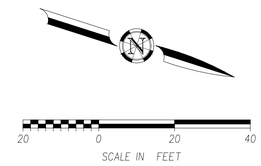
Plotted: 19/JAN/2026 4:15:15PM BY JPARK
Plot Scale: 1.0000 '/ Unit
Plot Style: SACRAMENTO.STB



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



CONSTRUCTION PLAN KEYED NOTES	
1	SIDEWALK, TYP. PER CIVIL DWGs. FINISH: PER CIVIL.
2A	-- NOT USED --
2B	PAVING, TYP. FINISH: STANDARD CONCRETE PAVING - MEDIUM BROOM FINISH. SLOPE PER CIVIL DWGs.
3A	SEPARATED BIKEWAY ISLAND, TYP. PER CIVIL DWGs. FINISH: COLORED CONCRETE STAMPED CONCRETE PAVING. REFER TO DETAIL 1 ON LANDSCAPE SHEET LM-501.
3B	SEPARATED BIKEWAY ISLAND, TYP. PER CIVIL DWGs. FINISH: STANDARD CONCRETE PAVING - MEDIUM BROOM FINISH.
4A	MEDIAN ISLAND, TYP. PER CIVIL DWGs. FINISH: COLORED CONCRETE STAMPED CONCRETE PAVING. REFER TO DETAIL 1 ON LANDSCAPE SHEET LM-501.
4B	-- NOT USED --
5	BOULEVARD ART WALL. REFER TO DETAIL 4 ON LANDSCAPE SHEET LM-501
6	GATEWAY FEATURE. REFER TO DETAIL 3 ON LANDSCAPE SHEET LM-502
7	TRASH RECEPTACLE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
8	LANDSCAPE AREA. REFER TO LANDSCAPE IRRIGATION AND PLANTING PLANS.
9	CONTINUOUS ROOT CONTROL BARRIER AT ALL EDGES OF PLANTER AREA. 24-INCH DEPTH, TYP. INSTALL ADJACENT TO PAVING AND CURBS. REFER TO DETAIL 1 ON LANDSCAPE SHEET LM-502.

LEGEND

- STAMPED COLORED CONCRETE PAVING
- STANDARD CONCRETE PAVING (MEDIUM BROOM FINISH)
- PLANTING AREA. REFER TO PLANTING PLAN SHEETS
- CONTINUOUS ROOT CONTROL BARRIER
- BOULEVARD WALL
- GATEWAY MONUMENT SIGN
- TRASH RECEPTACLE. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO SPECS.

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JULY 2026

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
DESCRIPTION
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FIELD BOOK

SCALE
HORIZ: ####
VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: N.WILLING
DATE ####

DESIGN BY: J.LEAL
R.C.E. #### DATE ####

CHECKED BY: J.LEAL
R.C.E. #### DATE ####

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1082 Sunrise Avenue, Suite 100
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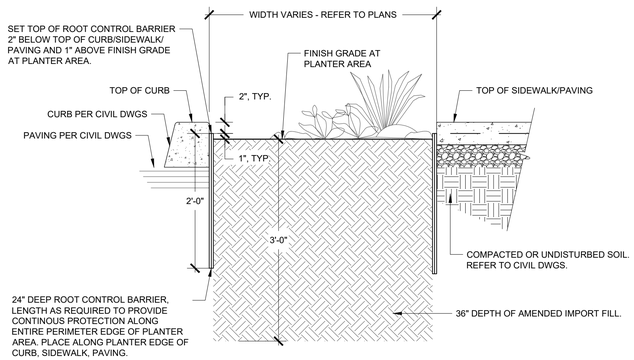
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE MATERIALS PLAN
STA 39+00 to STA 44 +00

T15165503

DWG. NO. LM106
SHEET 50 OF 95

CAD FILE: XREFS: BKR-243019_H_22x34 | X-BASE_030895-03 | X-243019_XR-SITE | r243019_XR-AERIAL | DL_PAVE-CONC-STMP-030895 | DL-PLNT-ROOT | DL_WALL_BLVD_030895 rev | DL_PAVE-CONC-INTS_030895 rev | DL_ART-GWAY_30895rev2 | r21301_XR-SITE | r21301_XR-AERIAL | DL_PAVE-CONC-STMP-030895 | DL-PLNT-ROOT | DL_WALL_BLVD_030895 rev | DL_PAVE-CONC-INTS_030895 rev | DL_ART-GWAY_30895rev2 | r21301_XR-SITE | r243019



NOTES:

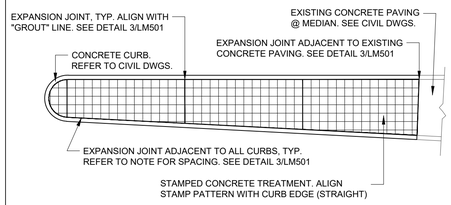
1. SEE LANDSCAPE PLANTING PLANS FOR ADDITIONAL INFORMATION.
2. ROOT CONTROL BARRIER - REFER TO SPECS.
3. SET THE TOP OF ROOT BARRIER CONTROL AS NOTED.
4. DIG TRENCH TO THE APPROPRIATE DEPTH FOR INSTALLATION SO THAT THE TOP OF THE ROOT CONTROL BARRIER IS 2" BELOW FINISH GRADE OF THE TOP OF THE CURB/SIDEWALK/PAVING. HAMMERING OF ROOT CONTROL BARRIER SHALL NOT BE ALLOWED.
5. PLACE THE ROOT CONTROL BARRIER IN THE TRENCH WITH THE VERTICAL RIBS FACING TOWARD THE TREE/PLANTS AND ALIGN WITH THE CURB/SIDEWALK/PAVING. USING THE CURB/SIDEWALK/PAVING AS A GUIDE, BACKFILL AGAINST BARRIER TO PROMOTE A CLEAN, SMOOTH FIT TO THE BAND.
6. AMENDED IMPORT FILL SHALL BE AS PER SPECS. COMPACT FILL TO 80% RELATIVE COMPACTION.
7. CONTRACTOR SHALL OBTAIN A DIG ALERT IDENTIFICATION NUMBER BY CALLING USA (UNDERGROUND SERVICE ALERT) TWO WORKING DAYS PRIOR TO EXCAVATION PER CALIFORNIA CODE SECTION 4216.

2 ROOT CONTROL BARRIER AT PLANTER AREA

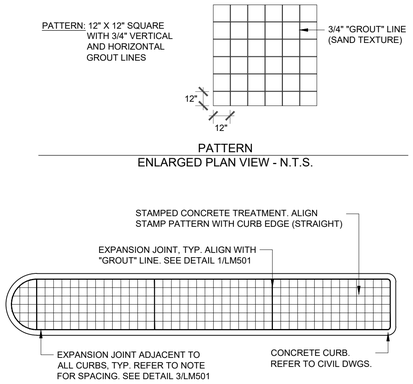
Scale: N.T.S.

NOTES:

1. STAMPED COLORED CONCRETE SHALL BE SMOOTH SLATE FINISH, TERRA COTTA WITH TERRA COTTA TILE. RELEASE AGENT WITH EXPANSION JOINTS 14-FEET MAX. O.C. AND TOOLED JOINTS HALF THE DISTANCE O.C. MAX. BETWEEN EXPANSION JOINTS. LINE UP EXPANSION JOINTS AND TOOLED JOINTS WITH CURB JOINTS. ALL COLORING PRODUCTS SHALL BE MANUFACTURED BY L.M. SCOFILED CO. (800) 800-9000, OR DAVIS COLORS (800)356-4848. STAMPING PATTERN AS SHOWN. APPLY TWO (2) COATS OF GLOSSY CLEAR PENETRATING WATER REPELLENT/SEALER PER MANUFACTURER'S SPECIFICATIONS TO ALL STAMPED COLORED CONCRETE.
2. CONTRACTOR SHALL PROVIDE A (4'X4') FIELD SAMPLE OF THE STAMPED COLORED CONCRETE A MINIMUM OF ONE (1) WEEK PRIOR TO INSTALLATION. THE SAMPLE SHALL REMAIN ON SITE UNTIL ALL WORK IS COMPLETE. GIVE TO OWNER AT COMPLETION OF WORK. ANY STAMPED COLORED CONCRETE INSTALLED PRIOR TO WRITTEN AUTHORIZATION BY THE CITY LANDSCAPE INSPECTOR SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE CITY.



MEDIAN
PLAN VIEW

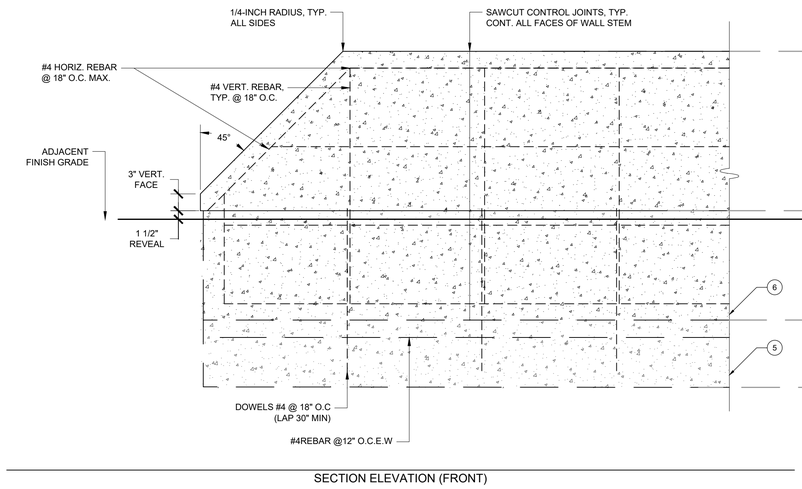


PATTERN
ENLARGED PLAN VIEW - N.T.S.

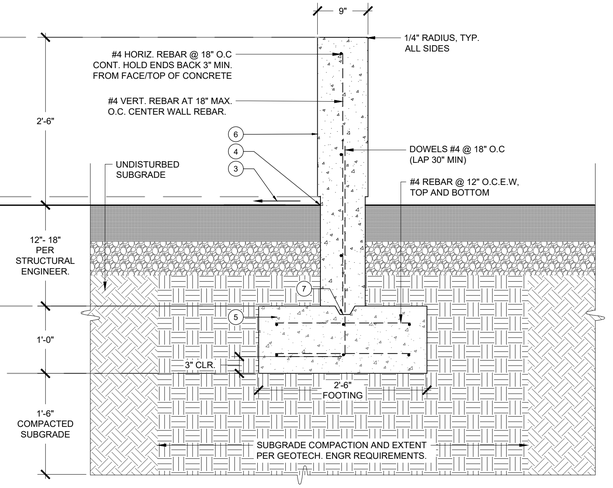
BIKEWAY BUFFER ISLAND
PLAN VIEW

1 STAMPED COLORED CONCRETE LAYOUT

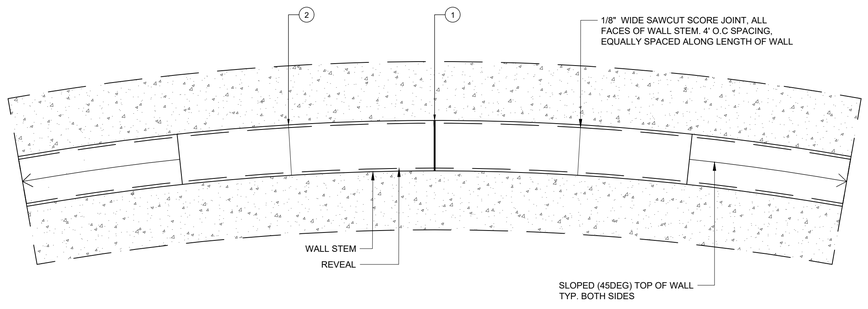
Scale: N.T.S.



SECTION ELEVATION (FRONT)



SECTION ELEVATION (SIDE)



PLAN VIEW

NOTES:

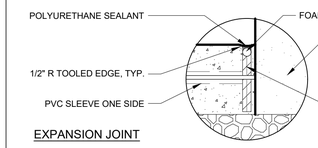
1. PROVIDE EXPANSION JOINTS FOR ANY SECTIONS GREATER THAN 20'-0" IN LENGTH. PLACE AT MIDPOINT OF THE WALL.
2. PROVIDE SCORE JOINTS EVENLY SPACED AT 4'-0" O.C. MAX. SUBMIT SHOP DRAWINGS FOR REVIEW.
3. FINISH GRADE OF ADJ. EXISTING PAVING. REPAIR WHERE DAMAGED BY CONSTRUCTION. SLOPE PAVEMENT AWAY FROM WALL.
4. 1/2" WIDE BY 1-1/2" HIGH FORMED REVEAL, ALL SIDES.
5. POUR 1: WALL FOOTING WITH DOWELS AS SHOWN. ROUGH FORMED FINISH
6. POUR 2: WALL STEM WITH SMOOTH RUBBED FINISH.
7. SHEAR KEY, FULL LENGTH OF FOOTING

4 BOULEVARD ART WALL

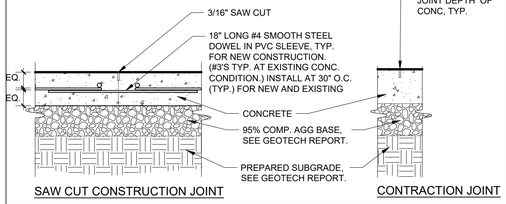
Scale: N.T.S.

NOTES:

1. PROVIDE CONTRACTION JOINTS WHERE SHOWN ON DWGS.
2. WHERE NOT SHOWN, PROVIDE CONTRACTION JOINTS THAT MATCH EXISTING ADJACENT JOINT PATTERNS AND SO THERE IS NO FIELD OF CONCRETE WITH ASPECT RATIO GREATER THAN 1.5 TO 1.
3. PROVIDE EXPANSION JOINT WHERE SHOWN OR IF NOT SHOWN 14' O.C. MAX., AND ALSO WHERE CONCRETE PAVING MEETS VERTICAL SURFACE (CURBS, WALLS, ETC.) AND WHERE NEW PAVING MEETS EXISTING.



EXPANSION JOINT



SAW CUT CONSTRUCTION JOINT

CONTRACTION JOINT

3 STANDARD CONCRETE PAVING JOINTS

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REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.--- FT
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CITY OF SACRAMENTO
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE CONSTRUCTION DETAILS - 1
STA --- to STA ---

T15165503
DWG. NO. LM501
SHEET 51 OF 95

CAD FILE:
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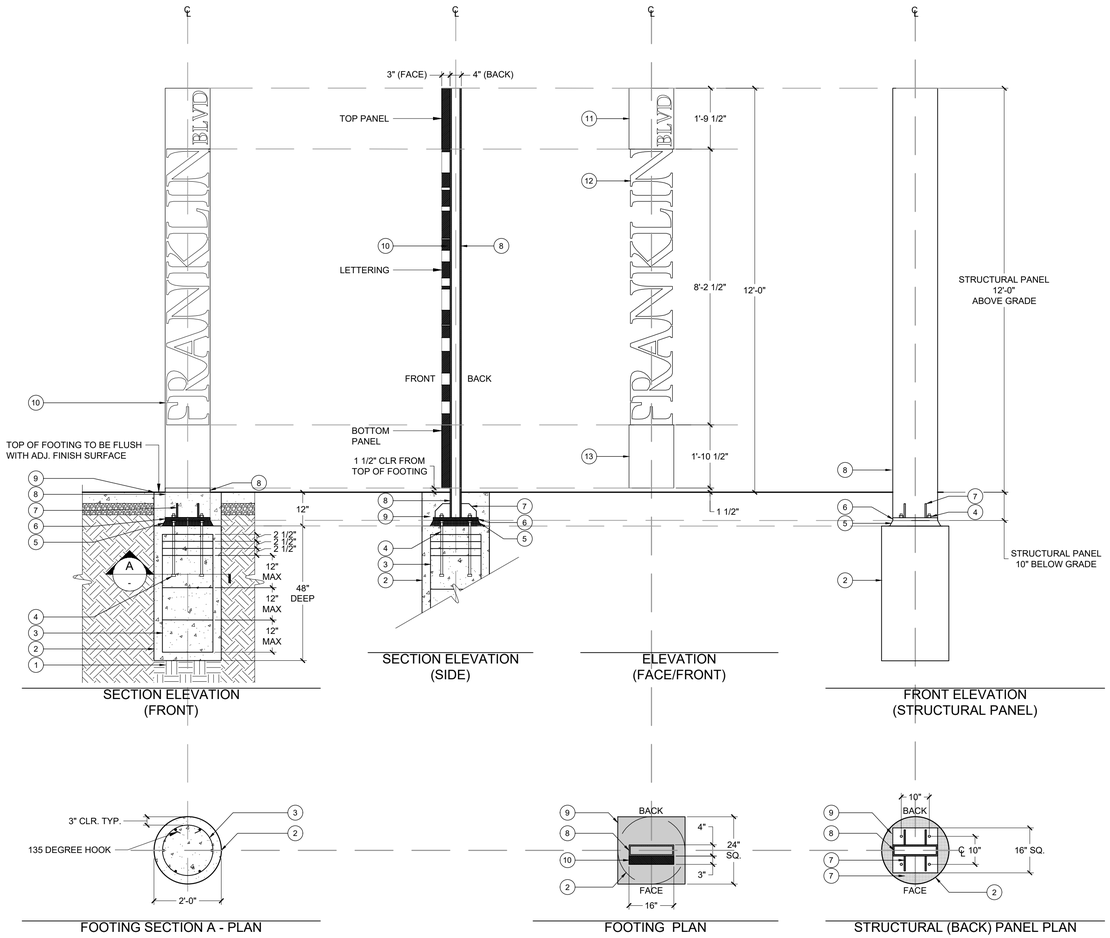
KEYED NOTES:

1. SUBGRADE COMPACTED PER STRUCTURAL AND GEOTECHNICAL ENGINEER REQUIREMENTS.
2. CIP CONCRETE FOOTING, 24" DIAMETER
3. REBAR (6) #5 VERTICALS. #4 TIES, SPACING PER ELEVATION
4. (4) 3/4" DIA. ASTM F1554 GR 36 GALVANIZED STEEL HEADED ANCHOR BOLTS WITH 18" EMBED
5. 2" NON SHRINK GROUT
6. GALVANIZED STEEL PLATE 16" SQUARE X 3/4" THICK. BOLT ATTACH TO CONCRETE FOOTING PER STRUCTURAL ENGINEER REQUIREMENTS. SHOP WELD TO VERT. BACK PANEL OF SIGN
7. (4) GALVANIZED STEEL GUSSET PLATE, 5" SQUARE X 3/4" THICK, CUT TO SHAPE. SHOP WELD TO BACK OF PANEL OF SIGN AND BASE PLATE
8. (1) STRUCTURAL PANEL OF SIGN. HSS GALVANIZED STEEL 16" X 4" X 3/8" THICK. SHOP WELD TO BASE PLATE AND GUSSET PLATES. POWEDERCOAT FINISH. RAL COLOR TO BE SELECTED BASED ON MOCKUPS.
9. POUR 2: COVER CONCRETE POUR OVER STEEL PLATE AND BRACKETS. LIGHT BROOM FINISH ALL EXPOSED SURFACES. 1/4" RADIUS EASE ALL EXPOSED EDGES, WATERPROOF ALL BELOW GRADE STEEL PLATES.
10. FACE (FRONT) PANEL OF SIGN WITH LETTER, WITH STRUCTURAL PANEL BEHIND. SEE ELEVATION FOR NOTES.
11. TOP PANEL, 3" THK 1/8IN THK GALV POWDERCOATED STL WITH CLOSED (ALL) SIDES SHOP ATTACH TO BACK PANE 'BLVD' TEXT 5" TALL LASER CUT INTO FACE PANEL. SHOP ATTACH TO STRUCTURAL PANEL
12. 3" THK x 15" TALL SUPERTEXT SPELLING ' FRANKLIN' FONT TO BE REVIEWED W/ CITY FOR FINAL APPROVAL LETTERS CUT TO SHAPE FROM STL 1/8 " THK PLATE WITH CLOSE SIDES AND BACK, SHOP FABRICATED AND MECHANICALLY ATTACHED TO STRUCTURAL PANEL. REVIEW HARDWARE PRIOR TO INSTALL CONCEALED HARDWARE IS PREFERRED.
13. BOTTOM PANEL 3" THK 1/8IN THK GALV POWDERCOATED STL WITH CLOSED (ALL) SIDES SHOP ATTACH TO STRUCTURAL PANEL



NOTES:

1. SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL.
2. PROVIDE A FULL SCALE MOCKUP FOR CITY AND DESIGN TEAM'S REVIEW. MOCKUP SHALL INCLUDE STRUCTURAL STEEL PANEL, FACE PANELS WITH LASERCUT LETTERS AND 2 SUPERTEXT LETTERS, AND GROUND AND FINISHED WELDS. ALLOW (1) SHOP VISIT IF WITHIN SACRAMENTO AREA TO REVIEW FINAL FABRICATION BEFORE IT IS INSTALLED ON SITE.
3. ALL STEEL MEMBERS SHALL BE HOT DIP GALVANIZED AND POWDERCOATED.
4. GRIND ALL WELD SMOOTH.
5. ALL HARDWARE SHALL BE 304/316 STAINLESS STEEL.
6. REBAR SHALL BE ASTM A615 GR. 60.
7. CONCRETE F'C = 3,000 PSI MINIMUM.
8. HSS SHALL BE ASTM A500 GR. C.
9. PLATE SHALL BE ASTM A36.

1 GATEWAY MONUMENT SIGN

Scale: N.T.S.

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FIELD BOOK

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE CONSTRUCTION DETAILS - 2
STA --- to STA ---

T15165503

DWG. NO. LM502

SHEET 52 OF 95

CAD FILE: XREFS: BDR--24X19_v1_22x24 | x-BASE_03089x-03 | x-243019_XR--SITE | x243019_XR--AERIAL | DL_PAVE-CONC-STMP--03089 | DL--PLNT-ROOT | DL_WALL_BLVD_03089 rev | DL_PAVE-CONC--ANTS_03089 | DL--ART-CWAY_30895rev2 | x2130_XR--SITE | x2130_XR--BASEMAP | x243019_XR--ASPN | x243019_XR--UTIL | x243019_XR--PLOT_STAMP | Login Name: jleal
File Name: Z:\Shared\Sacramento\02-Santa_Project\03089-03-TSCS-Ph3\06-3PDs\LM-02_MAT\--03089-03.dwg

REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES:

1. ANY REGULATED ZONE* WITHIN THE TREE PROTECTION ZONE** OF A CITY TREE*** OR A PRIVATE PROTECTED TREE**** SHALL BE SEPARATELY PERMITTED PRIOR TO THE START OF CONSTRUCTION AND SUPERVISED BY AN ISA CERTIFIED ARBORIST WHO SHALL MAKE RECOMMENDATIONS TO MINIMIZE THE IMPACT OF APPROVED WORK ON THE TREES. SUBMIT A TREE PERMIT APPLICATION TO URBANFORESTRY@CITY OF SACRAMENTO.ORG AND REFER TO THE PLANING PROJECT NUMBER.
2. TREES TO BE PRESERVED WITHIN OR ADJACENT TO THE CONSTRUCTION AREA SHALL BE PROTECTED FROM DISTURBANCE PRIOR TO AND THROUGHOUT CONSTRUCTION BY THE FOLLOWING METHODS OR AS APPROVED BY THE CITY ARBORIST:

A. PLACE A 6-FT HIGH CHAIN LINK FENCE AT THE EDGE OF THE TPZ.

B. WHEN THE FULL TPZ CANNOT BE ENCLOSED BY CHAIN LINK FENCE, THE APPLICANT SHALL PROVIDE PROTECTION FOR THE TRUNK AND THE SOIL WITHIN THE ROOT ZONE AS APPROVED BY THE CITY ARBORIST. ACCEPTED PRACTICES ARE:

i. ADD 4"-6" OF WOOD CHIP MULCH COVERED BY TRENCH PLATES OR 3/4-INCH PLYWOOD ON THE GROUND WITHIN THE TPZ.

ii. RETAIN ALL EXISTING SIDEWALK, DRIVEWAY OR OTHER CONCRETE THAT COVERS ROOTS OF EXISTING TREES.

iii. WRAP FOAM AROUND THE TRUNK AND SECURE 2x4s VERTICALLY AROUND ALL SIDES.

3. PROTECTION MEASURES SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT INCLUDING LANDSCAPE INSTALLATION.
4. ANY REGULATED WORK (SEE DEFINITION BELOW) SHALL BE DIRECTLY SUPERVISED OR PERFORMED BY THE PROJECT ARBORIST WHO SHALL BE A QUALIFIED ARBORIST.
5. EXCAVATION, GRADING OR TRENCHING WITHIN THE TPZ TREE SHALL EMPLOY ONE OF THE FOLLOWING METHODS; HYDRO-EXCAVATION, PNEUMATIC, EXCAVATION OR HAND DIGGING.
6. ALL STREET TREES AND PRIVATE PROTECTED TREES SHALL BE WATERED REGULARLY THROUGHOUT THE CONSTRUCTION PROCESS PER PROJECT ARBORIST'S RECOMMENDATIONS.
7. FOR PLANT INSPECTION, CALL CITY STREETSCAPE OFFICE AT (916) 808-6285 OR EMAIL LDUPRIEST@CITYOFSCARAMENTO.ORG. FOR URBAN FORESTRY TREE INSPECTION, CALL (916) 808-6336. CALL 48 HOURS IN ADVANCE FROM DELIVERY.
8. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY DAMAGE TO THE CITY TREES ASSOCIATED WITH THE PROJECT. ACCIDENTAL OR NEGLIGENT ACTIONS THAT DAMAGE CITY TREES MAY RESULT IN A PENALTY. THE MONETARY VALUE OF ANY SUCH DAMAGES WILL BE APPRAISED BY THE CITY URBAN FORESTER OR HIS AUTHORIZED REPRESENTATIVE AND SHALL BE EXPRESSED AS THE MONETARY EQUIVALENT OF ALL LABOR AND MATERIALS REQUIRED TO BRING THE TREE IN QUESTION TO A STATE OF COMPARABLE UTILITY WITH REGARDS TO ITS CONDITION AND FUNCTION PRIOR TO THE BEGINNING OF THE PROJECT.

* REGULATED WORK - MEANS PLANTING A CITY TREE, OR ANY ACT THAT COULD ADVERSELY IMPACT THE HEALTH OF A CITY TREE OR PRIVATE PROTECTED TREE SUCH AS PRUNING BRANCHES OR ROOTS LARGER THAN TWO INCHES IN DIAMETER, AFFIXING SIGNS, LIGHTS, OR HARDWARE, GRADING, CLEARING, EXCAVATING, ADDING FILL SOIL, TRENCHING, BORING, COMPACTING, OR PAVING WITHIN THE PROTECTION ZONE, PLACING OR STORING CONSTRUCTION EQUIPMENT OR MATERIAL, OR THE APPLICATION OF ANY HARMFUL SUBSTANCE.

** TREE PROTECTION ZONE - A FULL AND REGULAR CIRCLE AROUND THE TREE WITH A RADIUS THE LENGTH OF THE LONGEST HORIZONTAL BRANCH OR AS SET FORTH IN A TREE PROTECTION PLAN.

*** CITY TREE - MEANS ANY TREE THE TRUNK OF WHICH IS MEASURED FOUR AND ONE-HALF FEET ABOVE GROUND, IS PARTIALLY OR COMPLETELY LOCATED IN A CITY PARK, ON REAL PROPERTY THE CITY OWNS IN FEE, OR ON A PUBLIC RIGHT-OF-WAY, INCLUDING ANY STREET, ROAD, SIDEWALK, PARK STRIP, MOW STRIP, OR ALLY.

**** PRIVATE PROTECTED TREE MEANS:

A. A TREE THAT IS DESIGNATED BY CITY COUNCIL RESOLUTION TO HAVE SPECIAL HISTORICAL VALUE, SPECIAL ENVIRONMENTAL VALUE, OR SIGNIFICANT COMMUNITY BENEFIT, AND IS LOCATED ON PRIVATE PROPERTY;

B. ANY NATIVE VALLEY OAK (QUERCUS LOBATA), BLUE OAK (QUERCUS DOUGLASII), INTERIOR LIVE OAK (QUERCUS WISLIZENII), COAST LIVE OAK (QUERCUS AGRIFOLIA), CALIFORNIA BUCKEYE (AESCULUS CALIFORNICA), OR CALIFORNIA SYCAMORE (PLATANUS RACEMOSA), THAT HAS A DSH OF TWELVE (12) INCHES OR MORE AND IS LOCATED ON PRIVATE PROPERTY;

C. A TREE THAT HAS A DSH OF TWENTY-FOUR (24) INCHES OR MORE LOCATED ON PRIVATE PROPERTY THAT:

1. IS AN UNDEVELOPED LOT; OR
2. DOES NOT INCLUDE ANY SINGLE UNIT OR DUPLEX DWELLINGS; OR

D. A TREE THAT HAS A DSH OF THIRTY-TWO (32) INCHES OR MORE LOCATED ON PRIVATE PROPERTY THAT INCLUDES ANY SINGLE UNIT OR DUPLEX DWELLINGS.

EXISTING IRRIGATION SYSTEM NOTES:

1. IRRIGATION DESIGN IS BASED ON CITY PROVIDED INFORMATION AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF SITE CONDITIONS WHICH MAY PREVENT INSTALLATION OF WORK PER PLANS, DETAILS AND SPECIFICATIONS. ALL EXISTING IRRIGATION SYSTEM LAYOUT SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AT THE START OF WORK.
2. CONTRACTOR SHALL FIELD VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL MAINLINES THAT ARE TO BE CONNECTED TO OR CROSSED AT THE START OF WORK AND PROVIDE FINDINGS TO OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE START OF DEMOLITION.
3. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ANY EXISTING IRRIGATION SYSTEMS DIRECTLY ADJACENT AND OUTSIDE OF THE LIMIT-OF-WORK AREAS PRIOR TO THE START OF WORK. CONTRACTOR SHALL DOCUMENT ANY BROKEN OR MALFUNCTIONING PIECE OF IRRIGATION EQUIPMENT AND PROVIDE THE OWNER'S REPRESENTATIVE WITH A WRITTEN REPORT. ANY REPAIRS REQUIRED TO COMPONENTS NOT NOTED IN THE REPORT DURING OR AFTER DEMOLITION IS COMPLETED SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM TO REMAIN CAUSED BY EITHER THEIR OR THEIR SUB-CONTRACTORS OPERATIONS OR NEGLECT. IN CASE OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ANY REQUIRED REPAIRS AS SOON AS POSSIBLE. REPAIRS SHALL BE THE DIRECTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND SHALL BE TO THE EXACT DUPLICATE OF ORIGINAL WORK OR HIGHER QUALITY.
5. EXISTING IRRIGATION OUTSIDE OF AREAS OF WORK SHALL REMAIN FULLY OPERATIONAL. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEM'S WATERING OR OPERATION SHALL BE ALLOWED DURING THE COURSE OF CONSTRUCTION. THE EXISTING IRRIGATION SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION AND SHALL BE SUPPLEMENTED BY MANUAL WATERING ONLY WHEN REQUIRED OR REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
6. PROTECT ALL EXISTING MAINLINE, CONTROL VALVES AND WIRES, AND IRRIGATION EQUIPMENT, INCLUDING BY NOT LIMITED TO PRESSURE REDUCING VALVES, MASTER VALVES, FLOW SENSORS, ETC., NECESSARY FOR THE OPERABILITY OF THE EXISTING IRRIGATION SYSTEM TO REMAIN. REMOVE EXISTING IRRIGATION EQUIPMENT ONLY WHEN REQUIRED AS PART OF IRRIGATION SYSTEM INSTALLATION.
7. ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER(S) SHALL REMAIN CONNECTED UNLESS OTHERWISE NOTED ON PLANS. CONFIRM PROPER EXISTING CONTROLLER OPERATION WITH CITY'S REPRESENTATIVE UPON COMPLETION OF WORK.
8. EXISTING EQUIPMENT MAY BE RELOCATED FROM THE AREA OF WORK IF REQUIRED IN ORDER TO MAINTAIN OPERABILITY OF THE EXISTING IRRIGATION SYSTEM DURING AND AFTER CONSTRUCTION. RELOCATE EXISTING EQUIPMENT ONLY AS REQUIRED TO REMAIN FUNCTIONAL AND AS PER CITY'S REPRESENTATIVE APPROVAL.

EXISTING UTILITY NOTES:

1. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, STRUCTURES, AND SERVICES WHICH MAY AFFECT CONTRACTOR'S OPERATION DURING CONSTRUCTION BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE, WATER, GAS, OIL, SEWER, ETC., SO AS TO SAFELY PROTECT ALL UTILITIES, PERSONNEL, AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION HEREIN.
3. WHERE IT IS NECESSARY TO EXCAVATE IN AREAS OF EXISTING UTILITIES, THE CONTRACTOR SHALL POTHOLE TO CONFIRM EXACT LOCATIONS OF EXISTING UTILITIES.
4. IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME.
5. IN CASE OF INTERRUPTION OF UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION OR NEGLECT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR RECONSTRUCT DAMAGED ITEMS TO THE OWNER'S AND/OR UTILITY'S REPRESENTATIVE SATISFACTION AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE UTILITIES IN SERVICE AS SOON AS POSSIBLE.

WATER METER INSTALLATION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICABLE PERMIT SUBMITTALS AND FEES INCLUDING WATER DEVELOPMENT FEES, AND ALL APPLICABLE WATER METER INSTALLATION FEES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING AND EXPOSING WATER MAIN FOR THE CITY TO INSTALL A TAP, CORPORATION STOP, AND WATER PIPE FROM MAIN TO POINT OF SERVICE AND METER BOX.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING OF TRENCH AND FOR RESTORING PAVEMENT PER CITY STANDARD DETAILS.
4. INCIDENTAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CITY SHALL BE RESPONSIBLE FOR INSTALLING WATER METER, TAP, CORPORATION STOP, WATER PIPE FROM MAIN TO POINT OF SERVICE INCLUDING WATER METER AND SERVICE BOX.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED WATER METER COORDINATION.

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS."

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

.\sl-signature.jpg

SIGNATURE -/-/26 DATE

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1610 R STREET, SUITE 300 SACRAMENTO, CA 95811
TEL 530/753-9606 www.migcom.com

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NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
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FIELD BOOK

SCALE
HORIZ: ####
VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION NOTES
STA --+-- to STA --+--

T15165503
DWG. NO. LI001
SHEET 53 OF 95

CAD FILE: XREFS: BDR-243019_sl_22x34 | X-BASE_030895-03 | X-243019_XR-SITE | r243019_XR-AERIAL | D_JRRC-ASVS_30895 | D_JRRC-CivSE_30895 | r21301_XR-SITE | r21301_XR-SITE | r24301_XR-SITE | r24301_XR-STRP | x3536_02--lighting | x243019_XR--STRP | x243019_XR-BASEMAP | r243019_XR--APN | PLOT STAMP: Login Name: jpet
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LANDSCAPE IRRIGATION EQUIPMENT LEGEND

SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS	DETAIL
M	EXISTING	-	EXISTING WATER METER	EXISTING METER TO REMAIN. PROTECT. FIELD VERIFY EXACT LOCATION AND SIZE.	N/A
	N/A	-	IRRIGATION POINT-OF-CONNECTION	REFER TO PLAN FOR SIZE. FIELD VERIFY EXACT LOCATION, SIZE, STATIC PRESSURE AND THE MINIMUM STATIC PRESSURE (PSI) REQUIRED.	N/A
WM	PER CITY	PER CITY	DEDICATED IRRIGATION WATER METER	SIZE PER PLAN. FINAL LOCATION PER CITY. REFER TO WATER METER NOTES.	W-606/ LI-502
	WILKINS	975XL2SE-1"	BACKFLOW PREVENTION DEVICE	1" SIZE. REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WITHIN A PROTECTIVE ENCLOSURE. INSTALL PER CITY DETAIL AND AS REQUIRED BY LOCAL CODES	
NOT SHOWN	REFER TO SPECS	REFER TO SPECS	PULL/SPLICE BOXES	LOCATE PULL BOXES AT ENDS OF ALL SLEEVES, EVERY 200-FEET AND/OR 270 DEGREE BENDS. ALL WIRING SHALL BE IN GREY SCH. 40 PVC CONDUIT WITH SWEEPS. LOCATE SPLICE BOXES ONLY AS DIRECTED OR APPROVED BY OWNER'S REPRESENTATIVE.	L-108/LI-501 & 1/LI-503
	NIBCO	T-FP600A	ISOLATION BALL VALVE	LINE SIZE. BRASS BODY, FULL PORT WITH NPT THREADED ENDS. BALL VALVES SHALL ON BE USED UPSTREAM OF DASV AS SHOWN ON PLANS.	2/LI-503
	NIBCO	T-113-K	MAINLINE ISOLATION GATE VALVE	LINE SIZE. BRONZE.	L102/ LI-501
	RAIN BIRD	44LRC	QUICK COUPLING VALVE	1" SIZE. BRONZE	L104/ LI-501
	DIG	LEIT1 - ASV - ###	ANTI-SIPHON REMOTE CONTROL ZONE KIT WITH SINGLE-STATION SOLAR POWERED CONTROLLER WITH TWO-WIRE DC LATCHING SOLENOID (DASV)	GLASS-REINFORCED NYLON GLOBE VALVE WITH STRAIGHT-THROUGH PRESSURE REGULATOR (PRESET @ 25PSI) AND SELF-FLUSHING STAINLESS STEEL CONTROL-WATER FILTER (150-MESH). SIZE PER PLAN. USE MODEL LEIT1-ASV-075 FOR DRIP ZONES WITH FLOW RATES LESS THAN 3 GPM. USE MODEL LEIT1-ASV-100 FOR DRIP ZONES WITH FLOW RATES GREATER THAN 3 GPM AND UP TO 25 GPM. INSTALL WITHIN VALVE MANIFOLD WHEN GROUPED WITH OTHER VALVES. SIZE MANIFOLD TO MATCH MAINLINE SIZE OR LARGEST LATERAL LINE SIZE, WHICH EVER ONE IS LARGER. WHEN PRESSURE UPSTREAM OF VALVES IS LESS THAN 35 PSI, OMIT PRESSURE REGULATOR.	3/LI-503
	IRRITROL	700-B-.75-DCL	REMOTE CONTROL VALVE (RCV)	GLASS-REINFORCED NYLON GLOBE VALVE. 3/4" SIZE. PROVIDE WITH DC LATCHING SOLENOID (DCL).	L-105 & L-107/ LI-501
	IRRITROL	700-B-.75-DCL/ RBY075MPTX/ PSR23353F3F	DRIP REMOTE CONTROL VALVE ASSEMBLY (DRCV)	GLASS-REINFORCED NYLON GLOBE VALVE. 3/4" SIZE WITH DC LATCHING SOLENOID (DCL). INSTALL WITH RAIN BIRD INLINE RBY FILTER AND SENNINGER INLINE SOLID SET PRESSURE REGULATOR (35 PSI) OR APPROVED EQUAL. WHEN PRESSURE UPSTREAM OF VALVE IS LESS THAN 45 PSI, OMIT PRESSURE REGULATOR.	L-105/LI-501 5/LI-503
A B C	HUNTER	XCH-600-SS-P/ XCHSPOLE/ RAIN-CLIK	SOLAR POWERED IRRIGATION CONTROLLER	POLE MOUNTED IRRIGATION CONTROLLER, 6 STATION CONVENTIONALLY WIRED WITHIN STAINLESS-STEEL OUTDOOR CABINET ON STEEL POLE AND WITH MOUNTED SOLAR PANEL. PROVIDE WITH RAIN SHUT OFF SENSOR WITHIN WS-GUARD. INSTALL PER MANUFACTURE'S RECOMMENDATION AS PER DWGS.	4/LI-503
----------			COPPER PRESSURE MAINLINE PIPE	SIZE PER PLAN. TYPE K COPPER PIPE WITH SWEAT FITTINGS.	L106/ LI-501
-·-·-·-	PW PIPE	PW-PIPE	SOLVENT WELD PRESSURE MAINLINE PIPE	SIZE PER PLAN. USE SCH. 40 PVC PIPE FOR MAINLINE PIPE 2" OR SMALLER. CONNECT WITH SCH. 40 PVC SOLVENT WELD FITTINGS AND SIZED TO MATCH THE MAINLINE PIPE. INSTALL WITH TRACER WIRE (SEE SPECS).	
————	PW PIPE	PW-PIPE	SOLVENT WELD NON-PRESSURE LATERAL PIPE	SIZE PER PLAN; SCH. 40 PVC. SOLVENT WELD PIPE. CONNECT WITH SCH. 40 SOLVENT WELD PVC FITTINGS (WHITE IN COLOR) AND SIZED TO MATCH THE LATERAL LINE PIPE.	
= = =	PW PIPE	PW-PIPE	IRRIGATION PIPE/CONTROL WIRES/ SENSOR WIRE SLEEVE	SCH. 40 PVC PIPE, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED. QUANTITIES SHOWN ON PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SIZE AND QUANTITY AS REQUIRED. 1.5" MINIMUM SIZE SLEEVE/CONDUIT WITH SWEEPS AND PULL BOXES EVERY 200' AND/OR 270 DEGREE BEND. REFER TO PIPE/WIRE SLEEVING CHART FOR MORE INFORMATION. SLEEVES SHALL BE USED WHENEVER PIPE AND WIRES CROSS UNDER PAVING, HARDSCAPE, ETC., AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.	
NOT SHOWN	STRONG BOX	SBBC-30CR	ANTI-SIPHON ELECTRIC DRIP CONTROL ZONE KIT ENCLOSURE	SMOOTH TOUCH ENCLOSURE WITH FRONT ENTRY. INSTALL ONE ENCLOSURE PER VALVE GROUPINGS WITH IDENTICAL LETTERS.	6/LI-503

LANDSCAPE SUBSURFACE IRRIGATION EQUIPMENT

SYMBOL	MFG'R (OR APPROVED EQUAL)	MODEL # (OR APPROVED EQUAL)	DESCRIPTION	OPER. PSI	EMITTER FLOW (GPH)	MAX. ALLOWED HOZIN. SPACING	MAX. ALLOWED BURIAL DEPTH	DETAIL
	NETAFIM	TLCVXR6-1210	PRESSURE COMPENSATING IN-LINE DRIP EMITTER LINE WITH COPPER SHIELD TECHNOLOGY ROOT INTRUSION PROTECTION, AND CHECK VALVE. 12" EMITTER SPACING. GALVANIZED STAKES 3' O.C.	30	0.56	12-INCHES	ON-GRADE (BELOW MULCH)	1-4/ LI-504

SYMBOL	MFG'R (OR APPROVED EQUAL)	MODEL # (OR APPROVED EQUAL)	DESCRIPTION	REMARKS	DETAIL
ⓘ	RAIN BIRD	OPERIND	DRIP SYSTEM OPERATION INDICATOR KIT	INSTALL AT APPROXIMATE LOCATIONS SHOWN ON PLAN. PROVIDE WITH NON-POTABLE CAP	5/LI-504
Ⓕ	NIBCO	4660-S	MANUAL FLUSH BALL VALVE	1/2" SIZE. PLUMB TO PVC EXHAUST HEADER. HEADER SIZE TO MATH SUPPLY HEADER SIZE. REFER TO PLAN. REFER TO GENERAL IRRIGATION NOTES FOR ADDITIONAL INFORMATION.	6/LI-504

OVERHEAD IRRIGATION EQUIPMENT - FIXED ARC SPRAY

SYMBOL	MFG'R (OR APPROVED EQUAL)	MODEL # (OR APPROVED EQUAL)	DESCRIPTION/REMARK	NOZ.	OP. PSI	RAD.	90°	120°	180°	240°	270°	360°	DETAIL
8Q 8H 8F	RAIN BIRD	RD##*-S-P-30-F-#**	*PLASTIC POP-UP WITH 30 PSI REGULATED BODY,FACTORY INSTALLED DRAIN CHECK VALVE, FLOW-SHIELD, AND FIXED SPRAY ARC NOZZLES.*	8#	30	6' - 8'	0.26		0.52			1.05	L-110/ LI-502
10Q 10H 10F	RAIN BIRD		**INSTALL 6" POP- UP HEIGHT MODELS (RD06) AT TURF AREAS ONLY. ALL OTHER AREAS SHALL UTILIZE 12" POP-UP HEIGHT MODELS (RD12) UNLESS OTHERWISE NOTED ON THE PLANS*	10#	30	7.5' - 10'	0.39		0.79			1.58	
12Q 12H 12F	RAIN BIRD		***REFER TO NOZZLE.*	12#	30	9' - 12'	0.65		1.30			2.60	
15Q 15H 15F	RAIN BIRD			15#	30	11.25' - 15'	0.92		1.85			3.70	

OVERHEAD IRRIGATION EQUIPMENT - ADJUSTABLE ARC SPRAY

SYMBOL	MFG'R (OR APPROVED EQUAL)	MODEL # (OR APPROVED EQUAL)	DESCRIPTION	NOZ	OP. PSI	RAD.	FLOW (GPM) 90°	180°	270°	360°	DETAIL
8V	RAIN BIRD	RD##*-S-P-30-F-#**	PLASTIC POP-UP WITH 30 PSI REGULATED BODY,FACTORY INSTALLED DRAIN CHECK VALVE, FLOW-SHIELD, AND HIGH EFFICIENCY VARIABLE ARC SPRAY NOZZLES. *INSTALL 6" POP- UP HEIGHT MODELS (RD06) AT TURF AREAS ONLY. ALL OTHER AREAS SHALL UTILIZE 12" POP-UP HEIGHT MODELS (RD12) UNLESS OTHERWISE NOTED ON THE PLANS ** REFER TO NOZZLE.	HE-VAN-8	30	6'-8'	0.29	0.59	0.88	1.17	L-110/ LI-502
10V				HE-VAN-10	30	8'-10'	0.45	0.89	1.34	1.78	
12V				HE-VAN-12	30	10'-12'	0.59	1.18	1.77	2.37	
15V				HE-VAN-15	30	12'-15'	0.93	1.85	2.78	3.70	

PIPE SIZING CHART
SCH. 40 IPS U.S. PVC PLASTIC PIPE
(FOR REFERENCE USE ONLY)

PIPE SIZE	MAXIMUM GALLONS PER MINUTE
3/4 -INCH	6
1 - INCH	10
1-1/4 - INCHES	20
1-1/2 - INCHES	28
2 - INCHES	50

CONDUIT/PIPE SLEEVE SIZING CHART
(FOR REFERENCE USE ONLY)

SCHEDULE 40 PVC PIPE SLEEVE SIZE	MAX. IRRIGATION PIPE/WIRE CONDUIT SIZE
1-1/2 - INCHES	1/2 - INCH
2 - INCHES	3/4 - INCH
2-1/2 - INCHES	1 - INCH
3 - INCHES	1-1/4 - INCHES
4 - INCHES	1-1/2 TO 2 - INCHES

GENERAL IRRIGATION LEGEND

SLEEVING: REFER TO IRRIGATION LEGEND AND CHART ON SHEET LI-002. FOR TYPE AND SIZE.

(#)M MAINLINE PIPE SLEEVE QUANTITY
(#)L LATERAL PIPE SLEEVE QUANTITY
(#)W WIRE/CONDUIT SLEEVE QUANTITY
(#)S EMPTY(SPARE) SLEEVE QUANTITY

VALVE CALLOUT

CONTROLLER/STATION — A17 | Z1 — HYDROZONE DESCRIPTION*
FLOW (GPM) — 5.4 | 1" — VALVE SIZE
OPERATING PRESSURE (PSI) — 30 | DRP — IRRIGATION METHOD (BELOW)
HYDROZONE WATER-USE — L | 0.85 — PRECIP. RATE (IN./HR.)
631 — HYRDOZONE AREA (SF)

*REFER TO HYDROZONE CHART

IRRIGATION METHOD:
DRP - SUB-SURFACE DRIP GRID
SPR - POP-UP SPRAY

1-1/2" PIPE SIZING CALLOUT

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1610 R STREET, SUITE 300 SACRAMENTO, CA 95811
TEL 530.753-9606 www.migcom.com

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FIELD BOOK

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VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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DESIGN BY: J.LEAL R.C.E. #### DATE ####
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Roseville, California 95661
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION LEGEND
STA --+-- to STA --+--

T15165503

DWG. NO. LI002
SHEET 54 OF 95

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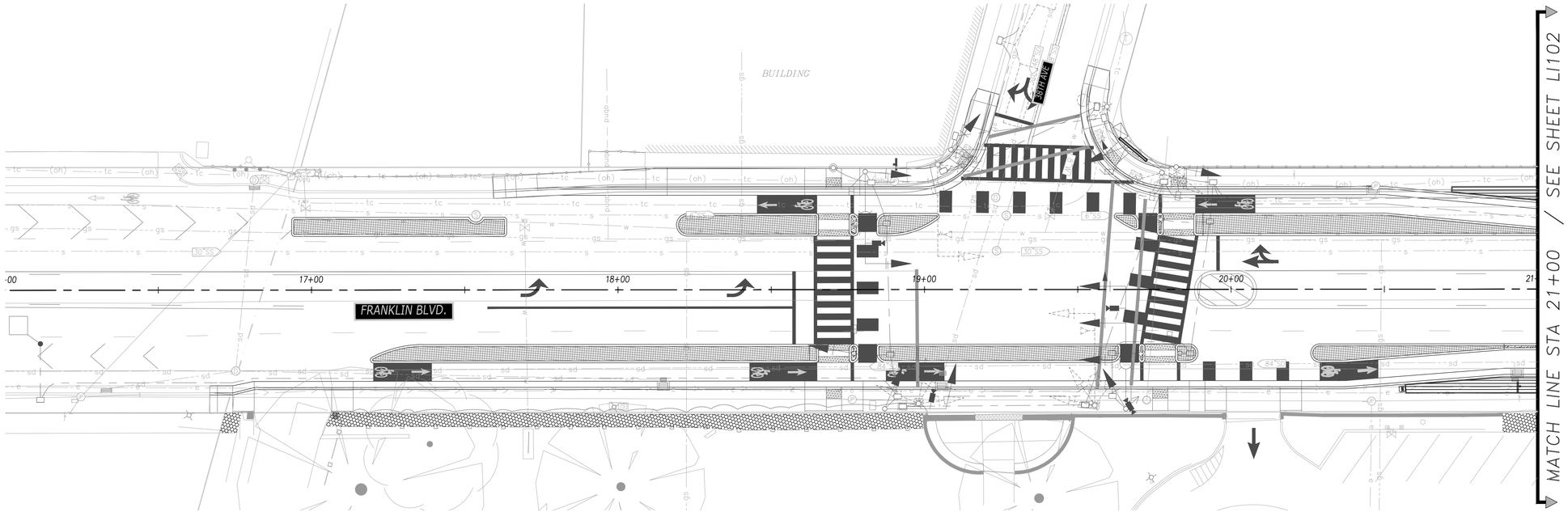

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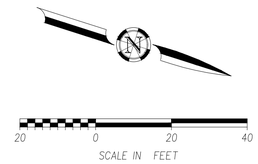
Call before you dig.



LANDSCAPE GENERAL IRRIGATION LEGEND

- EXISTING IRRIGATION SYSTEM TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- CONTRACTOR TO ADJUST EXISTING IRRIGATION SYSTEM AS REQUIRED BETWEEN BACK OF WALK AND EXTENTS OF CONSTRUCTION.
- APPROXIMATE EXTENT OF EXISTING IRRIGATION ADJUSTMENTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS DIRECTED BY CITY ENGINEER.
- (E) TREE TO BE PROTECTED. REFER TO REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES NOTES ON SHEET LI-001.

LANDSCAPE IRRIGATION NOTES

1. REFER TO IRRIGATION EQUIPMENT LEGEND ON SHEET LI-002 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFORMATION..
2. REFER TO IRRIGATION DETAIL SHEETS LI-501 THROUGH LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
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IMPROVEMENT PLANS FOR
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LANDSCAPE IRRIGATION PLAN
STA 16+00 to STA 21+00

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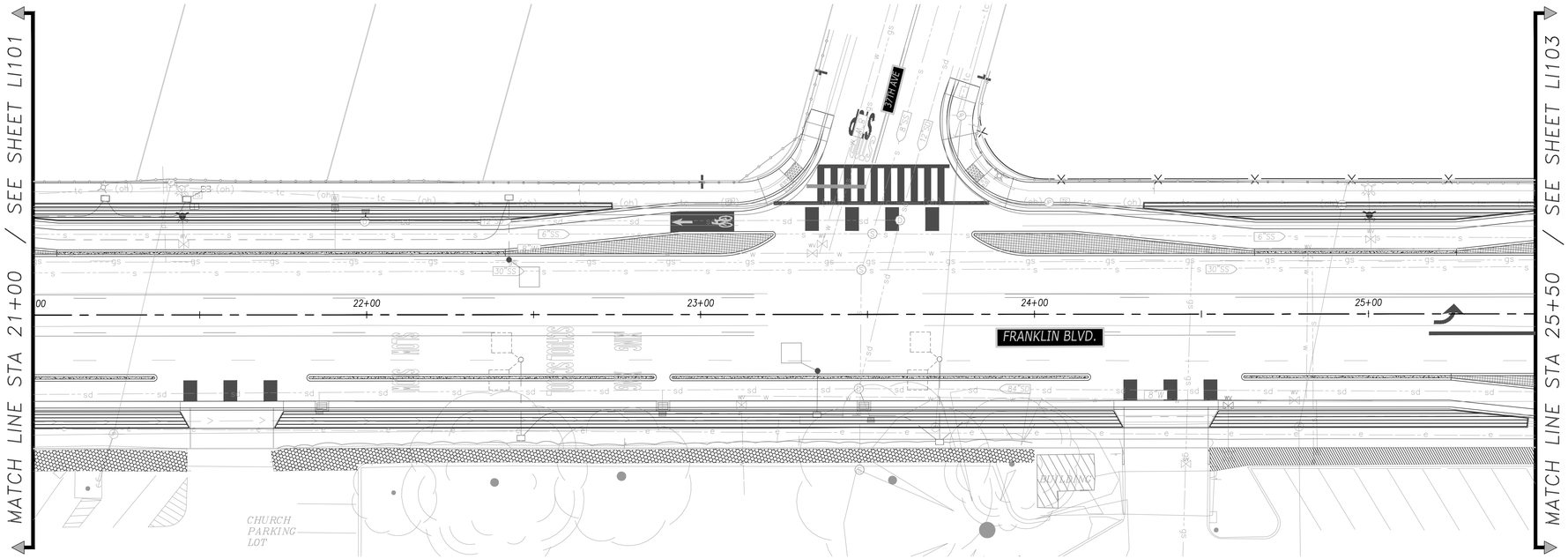
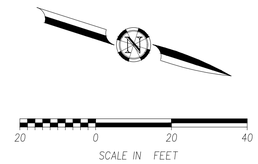
DWG. NO. LI101
SHEET 55 OF 95





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DEPARTMENT OF PUBLIC WORKS

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DESIGN BY: J.LEAL R.C.E. #### DATE ####
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Roseville, California 95661
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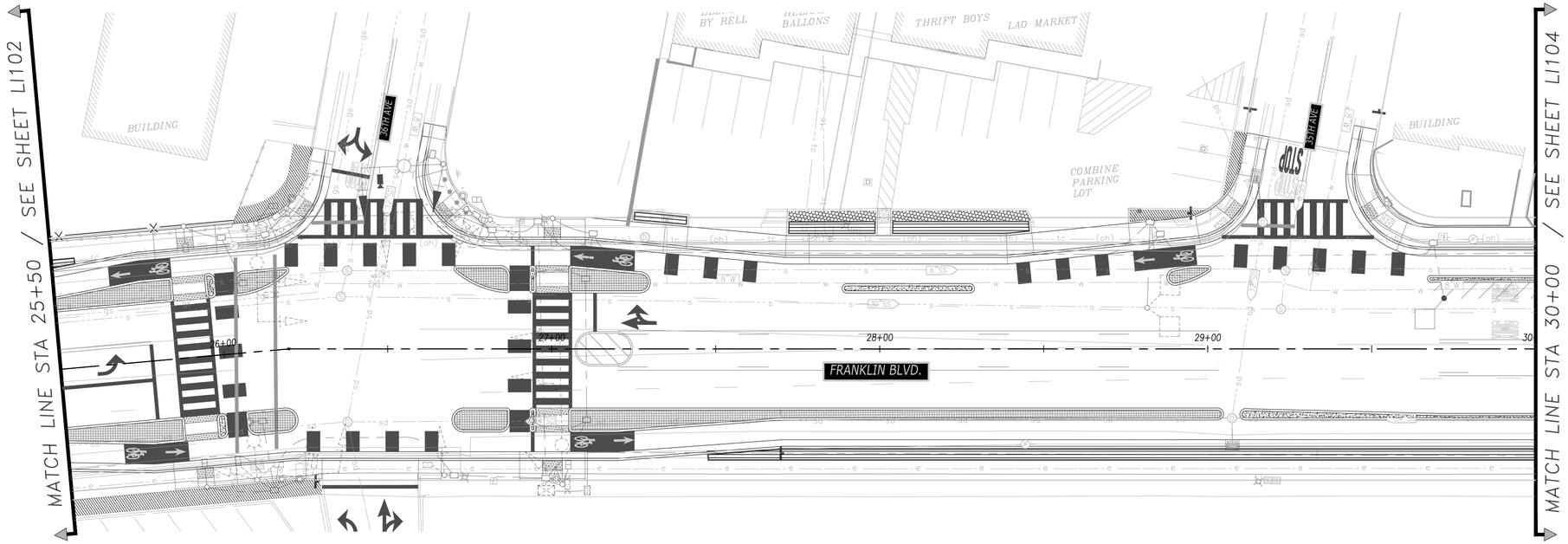
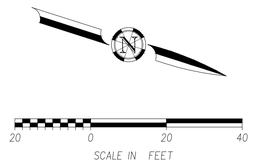
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION PLAN
STA 21+00 to STA 25+50

T15165503

DWG. NO. LI102
SHEET 56 OF 95





LANDSCAPE GENERAL IRRIGATION LEGEND

- EXISTING IRRIGATION SYSTEM TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- CONTRACTOR TO ADJUST EXISTING IRRIGATION SYSTEM AS REQUIRED BETWEEN BACK OF WALK AND EXTENTS OF CONSTRUCTION.
- APPROXIMATE EXTENT OF EXISTING IRRIGATION ADJUSTMENTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS DIRECTED BY CITY ENGINEER.
- (E) TREE TO BE PROTECTED. REFER TO REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES NOTES ON SHEET LI-001.

LANDSCAPE IRRIGATION NOTES

1. REFER TO IRRIGATION EQUIPMENT LEGEND ON SHEET LI-002 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFORMATION..
2. REFER TO IRRIGATION DETAIL SHEETS LI-501 THROUGH LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN MINIMAL DEPTH REQUIREMENTS.
4. ALL IRRIGATION PIPING/EQUIPMENT SHOWN IN HARDSCAPE AREAS IS FOR GRAPHIC CLARITY. INSTALL WITHIN PLANTING AREAS.

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FIELD BOOK

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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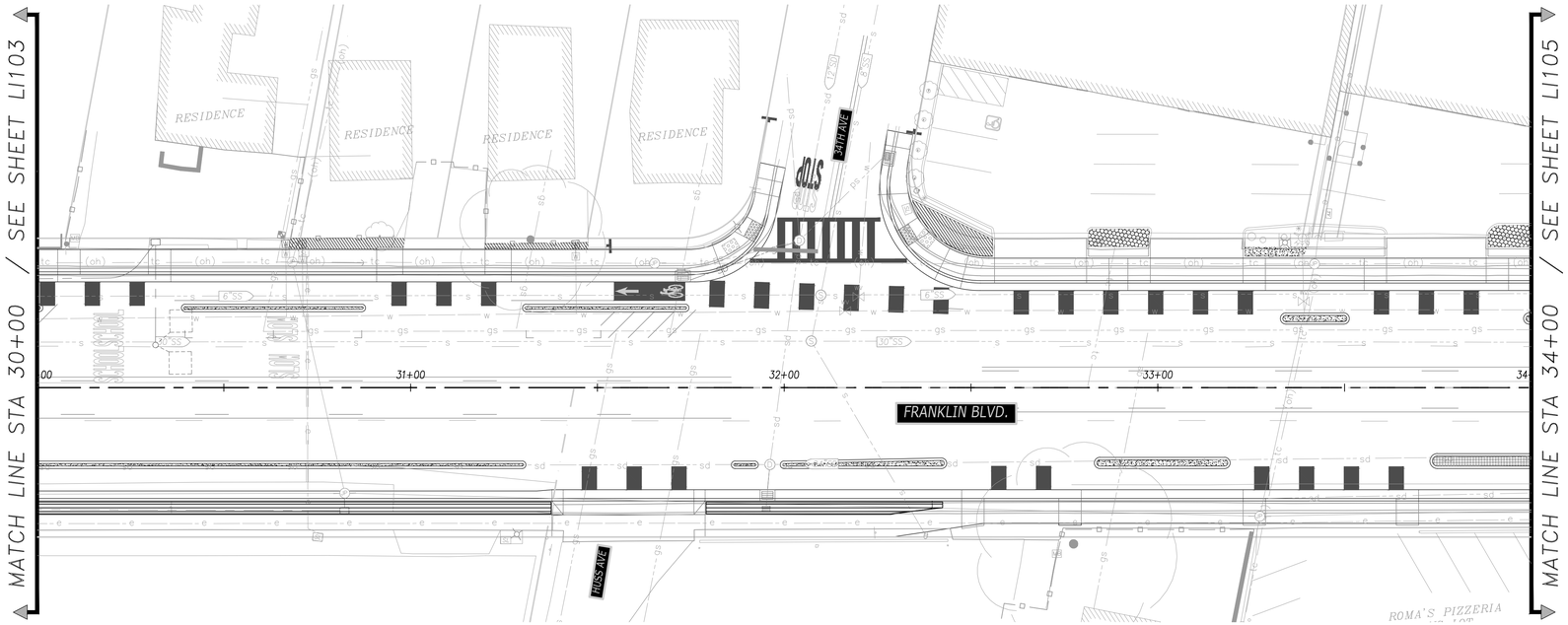
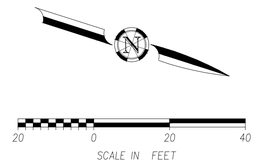
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION PLAN
STA 25+50 to STA 30+00

T15165503

DWG. NO. LI103
SHEET 57 OF 95





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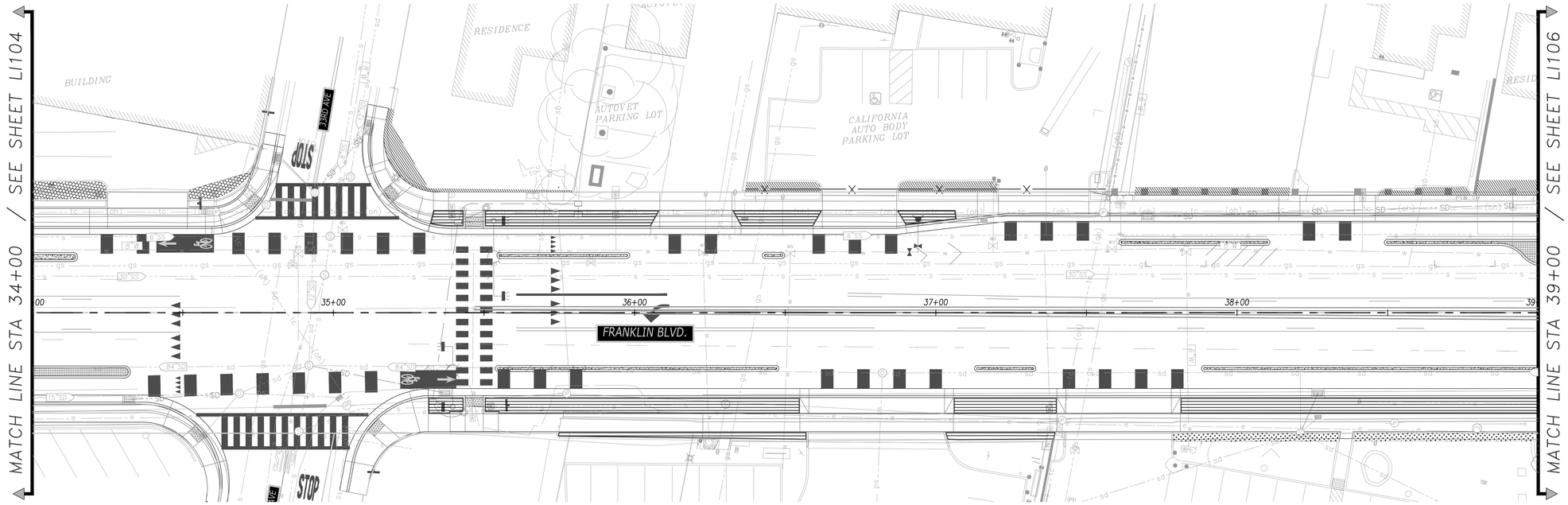
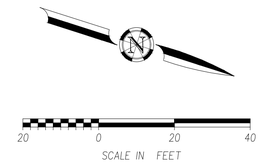
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION PLAN
STA 30+00 to STA 34+00

T15165503

DWG. NO. LI104
SHEET 58 OF 95





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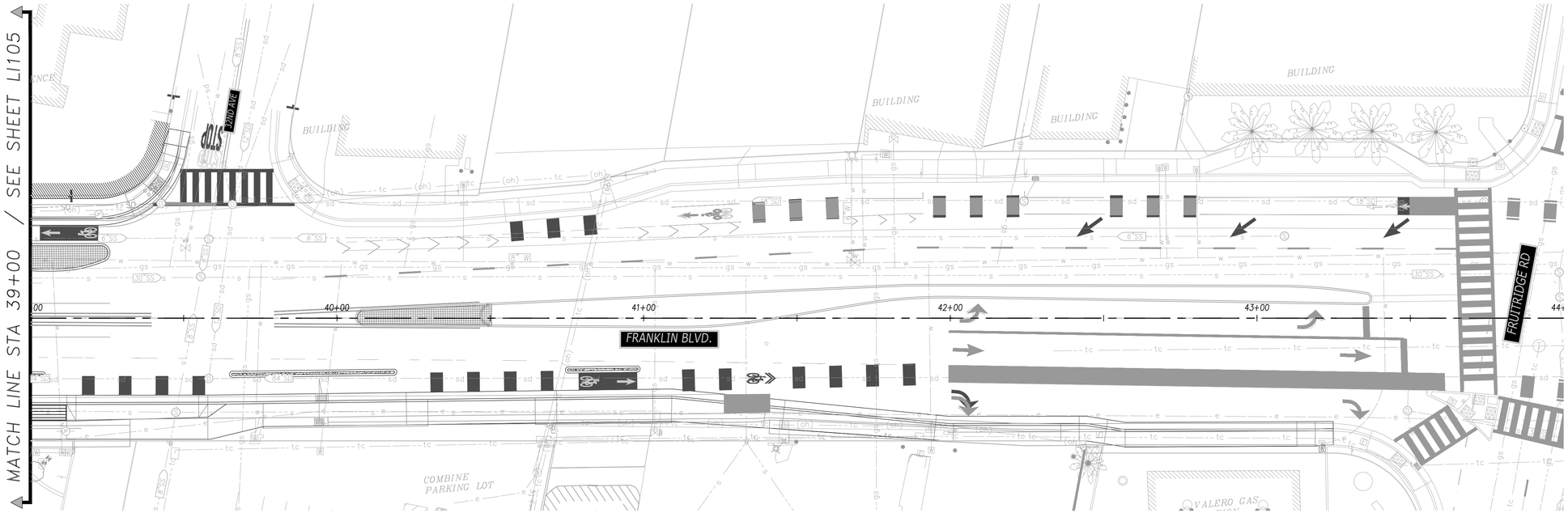
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

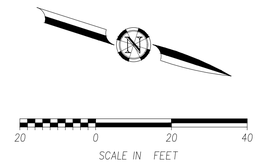
LANDSCAPE IRRIGATION PLAN
STA 34+00 to STA 39+00

T15165503

DWG. NO. LI105

SHEET 59 OF 95





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File Name: Z:\Shared\sacramento\02-work_projects\030000-work_oeo\030895-03-fbcs-ph3\04-300Dsn\U-000_IRRG-030895-03.dwg

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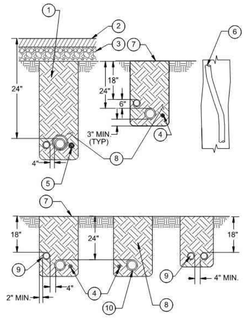
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION PLAN
STA 39+00 to STA 44+00

T15165503

DWG. NO. LI106
SHEET 60 OF 95



KEYNOTES

1. 6" COMPACTED LIFTS 95% R.D. IN PAVING AREAS
2. HARDSCAPE MATERIAL
3. BASE MATERIAL
4. IRRIGATION CONTROL WIRES
5. IRRIGATION CONTROL WIRES IN CONDUIT UNDER PAVED AREAS
6. SNAKE ALL PIPES IN TRENCHING
7. FINISH GRADE
8. EXCAVATED FILL COMPACTED IN 6" LIFTS AT 85% R.D. IN LANDSCAPE AREAS AND 95% R.D. IN PAVING AREAS
9. LATERAL PIPE (TYP)
10. IRRIGATION MAINLINE (TYP)

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

TRENCH

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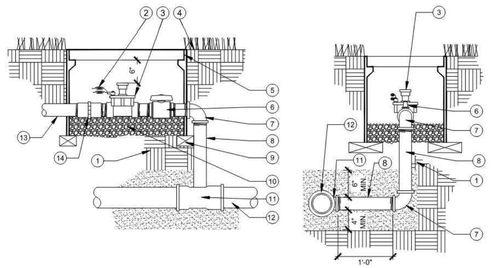

SECTION - FRONT VIEW

SECTION - SIDE VIEW

CALLOUTS:

1. SOIL IN IRRIGATION MAIN AND LATERAL LINES SHALL BE COMPACTED IN 6" LIFT WITH EACH LIFT COMPACTED TO 85% R.D. IN LANDSCAPED AREAS AND 95% R.D. IN PAVING AREAS.
2. VALVE CONTROL WIRE PROVIDE "3M DBY" SEAL PACKS AT ALL SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIA. COIL.
3. REMOTE CONTROL VALVE.
4. FINISH GRADE.
5. 13" X 20" JUMBO RECTANGULAR LOCKING VALVE BOX.
6. FULL PORT ¾ TURN PVC BALL VALVE.
7. SCH. 80 PVC 90 DEGREE ELL.
8. SCH. 80 PVC NIPPLE.
9. BRICK - TYP (4) PER BOX
10. ¾" DIA. DRAIN ROCK
11. SCH. 80 PVC TEE.
12. PVC MAIN LINE.
13. IRRIGATION SUPPLY LINE.
14. SCH. 40 UNION.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

REMOTE CONTROL VALVE

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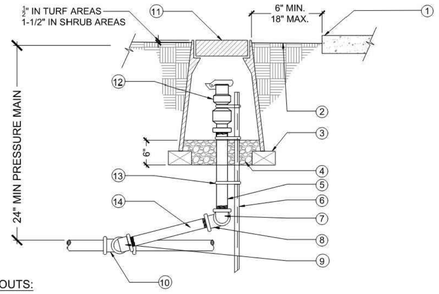

CALLOUTS:

1. STRUCTURE OR PAVING
2. FINISH GRADE BEFORE PLANTING.
3. BRICK SUPPORT, TYPICAL (2) PLACES.
4. 3/4" DIA. DRAIN ROCK.
5. SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.
6. #5 REBAR ANGLE IRON, 36" LONG.
7. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
8. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
9. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
10. SCHEDULE 80 PVC TEE (SLIPxSLIPxFIPT).
11. 10" ROUND PLASTIC VALVE BOX WITH LOCKING COVER.
12. QUICK COUPLING VALVE, SEE PLANS OR SPECS FOR MANUFACTURER AND MODEL NUMBER.
13. STAINLESS STEEL HOSE CLAMPS, MINIMUM OF (3) PLACES.
14. SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.

NOTES:

1. INSTALL QUICK COUPLING VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
2. SEE PLAN & SPECIFICATIONS FOR MORE INFORMATION.
3. SIZE OF ASSEMBLY TO BE EQUAL TO THE FIPT OF THE QUICK COUPLER.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

QUICK COUPLER

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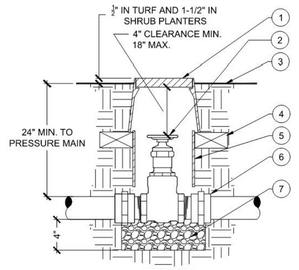

SECTION

CALLOUTS

1. 10" ROUND CONCRETE VALVE BOX AND COVER LABELED WATER, W/ BOX EXTENSIONS AS REQUIRED.
2. GATE VALVE BRONZE OR CAST IRON HANDWHEEL. SEE PLANS AND SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER.
3. FINISH GRADE
4. BRICK, TYPICAL. (2) PLACES.
5. 10" DIAMETER SCHEDULE 40 PVC.
6. SCHEDULE 80 PVC UNION, TYPICAL. (2) PLACES.
7. ¾" DIA. DRAINAGE ROCK

NOTES

1. INSTALL GATE VALVES A MINIMUM OF 24" FROM STRUCTURES OR HARDSCAPE.
2. INSTALL GATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
3. DOMESTIC GATE VALVES SHALL BE LEAD FREE ONLY.
4. VALVE SIZE SHALL BE EQUAL WITH THE MAINLINE SIZE UNLESS LABELED OTHERWISE.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

IRRIGATION GATE VALVE 3" AND SMALLER

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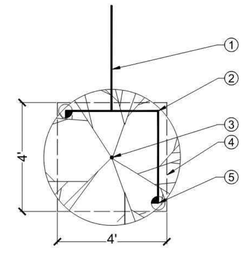


KEYNOTES

1. IRRIGATION LATERAL LINE CONNECTION
2. TYPICAL PIPE ROUTING (SUBJECT TO FIELD ADJUSTMENTS)
3. TREE PER TYPICAL TREE PLANTING DETAIL
4. PLANTING BOUNDARY NO PLANTS TO BE PLANTED WITHIN 2' OF TRUNK
5. LOW FLOW TECHNOLOGY NOZZLES PER SPRAY HEAD STANDARD DETAIL (PLACED ON OPPOSITE SIDES OF TREE)

NOTES

1. SCH 40 PVC FITTINGS TYP.
2. FOLLOW TREE PLANTING DETAIL FOR EXCAVATION, BACKFILL AND MULCHING.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

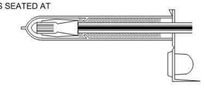
TREE SPRAY HEAD LAYOUT

APPR'D BY: DD
DATE: APRIL 2020 DWG. NO. L-112

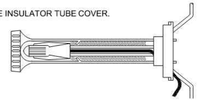
STEP 1: STRIP WIRES 1/2" FROM ENDS.

STEP 2: APPLY SCOTCHLOK SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.



STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.



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Department of Youth, Parks and Community Enrichment

WIRE CONNECTION

APPR'D BY: DD
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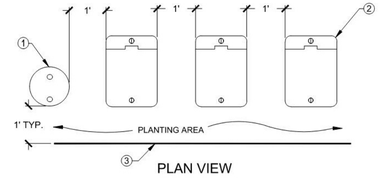

PLAN VIEW

CALLOUTS

1. 10" ROUND LOCKING VALVE BOX
2. 13" X 20" JUMBO RECTANGLE LOCKING VALVE BOX
3. EDGE OF STRUCTURE, HARDSCAPE, ETC.

NOTES

1. CENTER BOXES OVER VALVES.
2. INSTALL BOXES IN PLANTER BED WHEREVER POSSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. AVOID EXCESSIVE COMPACTION SOIL AROUND BOXES TO PREVENT DAMAGING VALVE BOXES.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

VALVE BOX

APPR'D BY: DD
DATE: APRIL 2020 DWG. NO. L-107

MIG
1610 R STREET, SUITE 300
SACRAMENTO, CA 95811
TEL 530/753-9606
www.migcom.com

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NOT FOR CONSTRUCTION
JULY 2026

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
DESCRIPTION
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FIELD BOOK

SCALE
HORIZ: ####
VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: N.WILLING DATE ####
DESIGN BY: J.LEAL R.C.E. #### DATE ####
CHECKED BY: J.LEAL R.C.E. #### DATE ####

BENEN
1082 Sunrise Avenue, Suite 100
Roseville, California 95661
T 916.783.4100

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION DETAILS - 1
STA --+-- to STA --+--

T15165503

DWG. NO. LI501
SHEET 61 OF 95

CAD FILE: XREFS: BSR-243019_sl_22x34 | X-BASE_203895-03 | X-243019_XR-SITE | x243019_XR-AERIAL | DI_JRRC-AS-IS_20895 | DI_JRRC-CAGE_20895 | x21301_XR-SITE | x21301_XR-STRIP | x3536.02--lighting | x243019_XR-STRIP | x243019_XR-BASEMAP | x243019_XR-APN | PLOT STAMP: 4/29/2026 10:08:39 AM | Login Name: jpal
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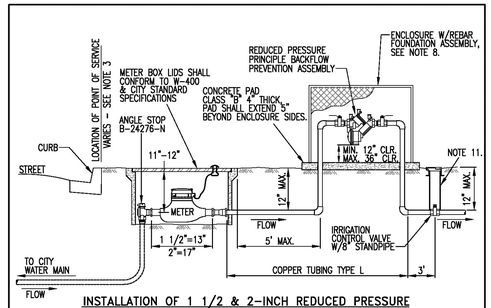


INSTALLATION OF 1 1/2 & 2-INCH REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY /WATER METER ON ALL CITY IRRIGATION SYSTEMS OWNED BY THE CITY.

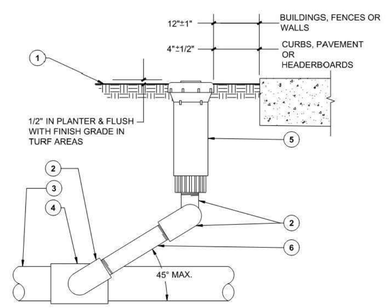
NOTES:

1. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT CROSS CONNECTION CONTROL POLICY.
2. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLIES SHALL BE CONNECTED TO CITY WATER AND TESTED PRIOR TO BEING PLACED INTO SERVICE.
3. POINT OF SERVICE:
   A. POINT OF SERVICE IS THE BACK OF CURB FOR ALL CITY STREETS WITH PLANTER STRIPS.
   B. POINT OF SERVICE IS THE BACK OF SIDEWALK FOR STREETS WITH SIDEWALK CONTIGUOUS WITH CURB AND GUTTER.
   C. POINT OF SERVICE IS THE RIGHT-OF-WAY LINE ON ALL ALLEYS AND UNIMPROVED STREETS.
   D. WHERE THE POINT OF SERVICE IS UNCLEAR THE LOCATION SHALL BE DETERMINED BY THE CROSS CONNECTION CONTROL SPECIALIST.
4. LISTS OF APPROVED BACKFLOW PREVENTION ASSEMBLIES AND CERTIFIED BACKFLOW PREVENTION ASSEMBLY TESTERS ARE AVAILABLE AT THE DEPARTMENT OF UTILITIES CUSTOMER SERVICE COUNTER LOCATED AT 1395 35TH AVE.
5. THE BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ABOVE GROUND, IN A HORIZONTAL AND LEVEL POSITION. THE ASSEMBLY SHALL BE LOCATED ON THE CUSTOMER'S SIDE AND NO FURTHER THAN FIVE (5) FEET FROM THE POINT OF SERVICE OR THE METER.
6. OUTLETS, TAPS, TEES, OR CONNECTIONS BETWEEN THE WATER MAIN AND BACKFLOW PREVENTER ARE NOT ALLOWED.
7. FREEZE BAGS ARE REQUIRED ON ALL CITY MAINTAINED ASSEMBLIES.
8. CONCRETE PAD AND PROTECTIVE ENCLOSURE REQUIRED FOR ALL CITY MAINTAINED ASSEMBLIES. ENCLOSURE SHALL BE PLACER WATERWORKS PW/E1AW-M (W18"xL40"xH30") OR EQUAL. FINISH SHALL BE POWDER COATED HUNTER GREEN.
9. IF PROTECTIVE ENCLOSURE IS REQUIRED, DEPARTMENT OF UTILITIES LOCK(S) SHALL BE INSTALLED.
10. 6 MIL POLYETHYLENE WRAP WITH 10 MIL TAPE IS REQUIRED FOR ALL UNDERGROUND COPPER TUBING.
11. PLACE BLOCKS UNDER STAND PIPE SO SUPPORTED CLEAR OF HORIZ PIPE. STAND PIPE TO BE 8" SDR 35 WITH 910 CARSON VALVE BOX GREY IN COLOR WITH (WATER) LETTERING ON THE LID, OR APPROVED EQUAL.

R:\Utilities_New_Std_Details\Water_Utilities\W-606

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO DEPARTMENT OF UTILITIES	2-INCH & SMALLER RP ASSEMBLY W/METER ON ALL CITY IRRIGATION SYSTEMS	APP'D BY: _____ NO SCALE
		DATE: SEPT 6, 2017 DWG. NO. W-606



SECTION

CALLOUTS

1. FINISH GRADE.
2. MARLEX STREET ELLS.
3. IRRIGATION LATERAL.
4. PVC SCHEDULE 40, 90 DEGREE ELL (SxT) OR TEE (SxSxT)
5. POP-UP SPRAY HEAD.
6. PVC SCHEDULE 40 NIPPLE. (LENGTH AS REQUIRED).

NOTE

1. SPRAY HEADS LOCATED ADJACENT TO ROADWAYS AND PARKING LOTS SHALL BE LOCATED 24" FROM EDGE OF HARDSCAPE.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment	SPRAY HEAD	APP'D BY: _____ DATE: APRIL 2020 DWG. NO. L-110

CAD FILE: XREFS: BDR-243019_a_r1_22x24 | X-BASE_030895-03 | X-243019_XR-SITE | 243019_XR-ARIAL | DL_IRRIG-ASVS_30895 | DL_IRRIG-CADZ_30895 | 21301_XR-SITE | 21301_XR-STRP | X3536.02-lighting | 243019_XR-STRP | 243019_XR-BASEMAP | 243019_XR-ALPN | PLOT STAMP Login Name: jleal
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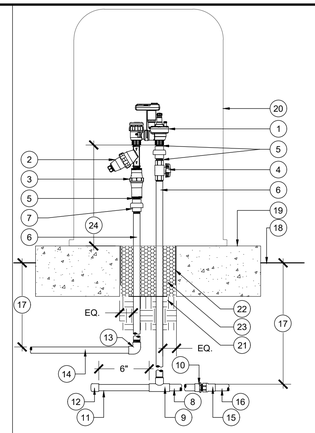
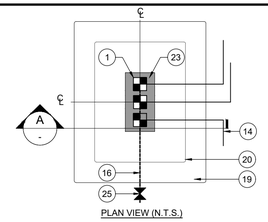


SECTION ELEVATION - A



PLAN VIEW (N.T.S.)

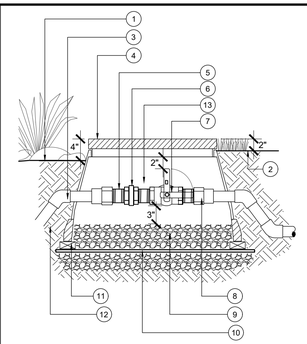
NOTES:

1. PROGRAM CONTROLLER USING CONTROLLER'S SIMPLESMART PROGRAMMING OPTION. IF AN ADJUSTMENT OR FINE TUNING OF THE SIMPLESTART PROGRAMMING IS REQUIRED, ADJUST EACH MONTH USING THE SEASONAL ADJUSMENT (%) SETTING AS PER MANUFACTURER'S INSTRUCTIONS.

1. ANTI-SIPHON VALVE WITH FACTORY MOUNTED AMBIENT LIGHT, SOLAR POWERED SMART CONTROLLER
2. INLINE RBY FILTER WITH STAINLESS STEEL SCREEN (200 MESH)
3. INLINE PRESSURE REGULATOR (LOW FLOW). PRESET OUTLET PRESSURE: 35 PSI.
4. PVC SCH. 80 BALL VALVE. ASV SIZE.
5. PVC SCH. 80 CLOSE NIPPLE (3" LENGTH)
6. PVC SCH. 80 NIPPLE. LENGTH AS REQ.
7. PVC SCH. 80 THREADED UNIONS, TYP. (2 REQ.)
8. PVC MAINLINE PIPE
9. PVC SCH. 80 TEE FITTING. MAINLINE SIZE
10. PVC SCH. 80 MALE ADAPTER.
11. MAINLINE STUB-OUT.
12. PVC SCH. 40 CAP. MAINLINE SIZE.
13. PVC SCH. 40 ELL. (SxT) LATERAL LINE SIZE.
14. PVC LATERAL LINE TO DRIP SYSTEM
15. COPPER FEMALE ADAPTER (SWEAT X THREADED (FEMALE IPS). COPPER MAINLINE SIZE.
16. COPPER MAINLINE FROM WATER POINT-OF-CONNECTION
17. PIPE BURIAL DEPTH PER SPECS.
18. FINISH GRADE
19. CONCRETE ENCLOSURE PAD
20. ENCLOSURE. SEE DETAIL 6/LI-503
21. COMPACTED NATIVE SOIL
22. FILTER FABRIC. HOLD 1" BELOW TOP OF ENCLOSURE PAD
23. 3/4" WASHED PEA GRAVEL
24. 12" MIN. HEIGHT ABOVE LOWEST EMITTER OR PER LOCAL CODE.
25. SHUT-OFF VALVE

3 DRIP REMOTE CONTROL ASSEMBLY IN AN ENCLOSURE

Scale: 1 1/2" = 1'-0"



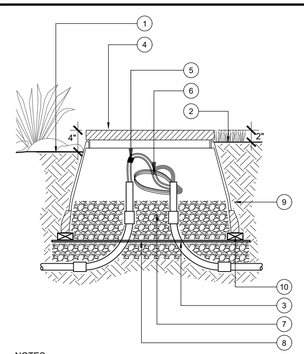
1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. PVC MAINLINE. USE PVC SCH. 80 45° ELL TO DEPTH PER SPECS.
4. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER, AND SS HARDWARE
5. BRASS NIPPLE,3 QTY., TYP
6. BRASS UNION
7. ISOLATION BALL VALVE. REFER TO SPECS.
8. PVC SCH. 80 FEMALE ADAPTER, (2) QTY.
9. 3 CU. FT. 3/8" PEA GRAVEL
10. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
11. NATIVE SOIL COMPACTED TO
12. (4) CONCRETE BRICK SUPPORTS, ONE AT EACH CORNER

NOTES:

1. BALL VALVE MUST BE INSTALLED IN VALVE BOX TO ALLOW PROPER OPERATION OF BALL VALVE HANDLE.
2. ALL THREADED FITTINGS MUST HAVE 3/4" TEFLON TAPE OR PASTE.
3. PROVIDE 45° ELLS TO ACHIEVE BALL VALVE HEIGHT PER DETAIL.

2 ISOLATION BALL VALVE

Scale: N.T.S.



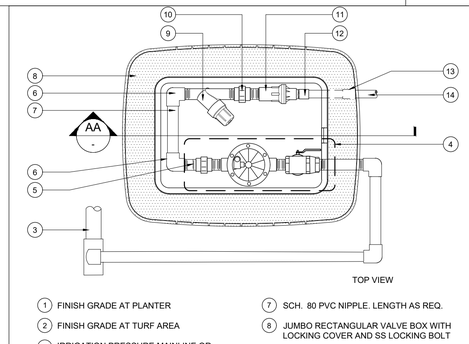
1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. PVC SCH. 40 ELECTRICAL CONDUIT AND SWEEPS TO DEPTH PER SPECS.
4. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER, AND SS HARDWARE
5. APPROVED WIRE CONNECTOR (IF APPLICABLE)
6. 36" EXPANSION COIL
7. 3 CU. FT. 3/8" PEA GRAVEL
8. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
9. NATIVE SOIL COMPACTED TO
10. (4) CONCRETE BRICK SUPPORTS, ONE AT EACH CORNER

NOTES:

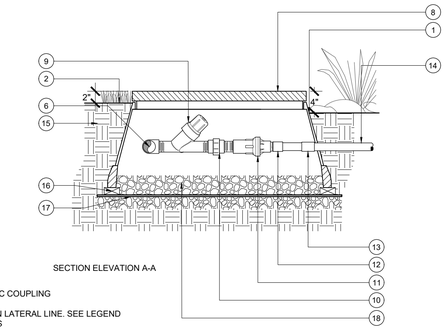
1. ALL WIRING MUST CONFORM TO LOCAL CODES.
2. PROVIDE 36" EXPANSION COILS AT EACH WIRE CONNECTION.
3. PROVIDE 3" CLEARANCE BETWEEN WIRES AND LID.
4. NO WIRE SPLICES ARE ALLOWED WITHOUT OWNER'S REPRESENTATIVE APPROVAL.

1 PULL BOX

Scale: N.T.S.



TOP VIEW

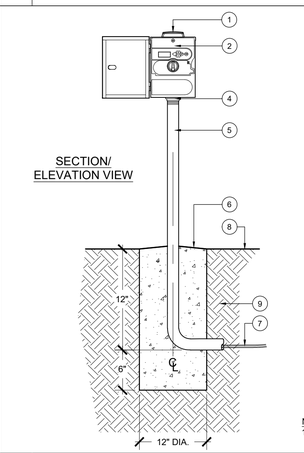


SECTION ELEVATION A-A

1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. IRRIGATION PRESSURE MAINLINE OR MANIFOLD SUPPLY
4. REMOTE CONTROL VALVE. REFER TO DETAIL L-105/LI-501
5. SCH. 80 PVC NIPPLE. 3" MIN. LENGTH
6. SCH. 80 PVC ELL (TxT)
7. SCH. 80 PVC NIPPLE. LENGTH AS REQ.
8. JUMBO RECTANGULAR VALVE BOX WITH LOCKING COVER AND SS LOCKING BOLT
9. SCREEN FILTER. SEE LEGEND AND SPECS
10. SCH. 80 PVC UNION
11. PRESSURE REGULATOR. SEE LEGEND AND SPECS
12. SCH. 80 PVC MALE ADAPTER
13. SCH. 40 PVC COUPLING
14. IRRIGATION LATERAL LINE. SEE LEGEND AND SPECS
15. NATIVE SOIL COMPACTED
16. BRICK SUPPORTS, TYP. OF 4
17. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
18. 3 CU. FT. 3/4" PEA GRAVEL

5 REMOTE CONTROL DRIP VALVE ASSEMBLY

Scale: N.T.S.



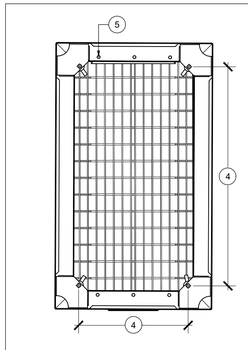
1. SOLAR PANEL, INCLUDED WITH CONTROLLER.
2. SOLAR POWERED IRRIGATION CONTROLLER. REFER TO DWGS.
3. NOT USED
4. STEEL MOUNTING BRACKET AND HARDWARE INCLUDED WITH POLE MOUNTING KIT. INSTALL PER MFG'R RECOMMENDATIONS USING MFG'R HARDWARE
5. STAINLESS STEEL 4-FOOT MOUNTING POLE: HUNTER XCHSPOLE. INSTALL POLE IN VERTICAL POSITION.
6. CONCRETE FOOTING. SLOPE AWAY FROM POLE. ENSURE BOTTOM POLE OPENING IS PROTECTED FROM CONCRETE AND IS MAINTAINED CLEAR.
7. CONTROL WIRES. PROVIDE 12" LENGTH INSIDE CONTROLLER. ENSURE WIRES CANNOT SLIP BACK DOWN INTO THE POLE. ROUTE CONTROL WIRES TO NEW JUNCTION BOX LOCATION.
8. FINISH GRADE
9. UNDISTURBED SOIL

NOTES:

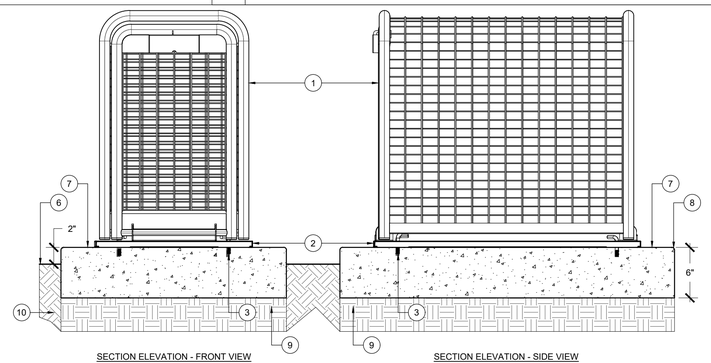
1. USE DC-LATCHING SOLENOID, HUNTER MODEL 458200, AT EACH VALVE.

4 SOLAR POWERED CONTROLLER

Scale: 1" = 1'-0"

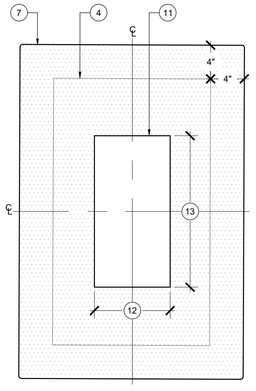


MOUNTING BASE - BOTTOM VIEW



SECTION ELEVATION - FRONT VIEW

SECTION ELEVATION - SIDE VIEW



PLAN VIEW

1. ENCLOSURE
2. MOUNTING BASE
3. STAINLESS STEEL ANCHOR BOLT, TYP.
4. ANCHOR BOLT PATTERN PER MANUFACTURER
5. 3/8" X 3/4" MOUNTING STUDS (X6).
6. FINISH GRADE
7. CONCRETE ENCLOSURE PAD
8. 1/2" RADIUS TOOLED EDGE, TYP.
9. COMPACTED NATIVE SOIL
10. NATIVE SOIL
11. OPENING IN CONCRETE PAD FOR PIPE RISERS
12. 9" MINIMUM OR AS REQUIRED TO PROVIDE A MINIMUM OF 2" CLEARANCE BETWEEN PIPE RISER AND PAD
13. 18" MINIMUM OR AS REQUIRED TO PROVIDED A MINIMUM OF 2" CLEARANCE BETWEEN PIPE RISER AND PAD

NOTES:

1. SET MOUNTING BASE AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ATTACH ENCLOSURE TO MOUNTING BASE AS PER MANUFACTURER'S INSTRUCTIONS USING MANUFACTURER APPROVED NUTS

DRIP REMOTE CONTROL ASSEMBLY ENCLOSURE

Scale: 1 1/2" = 1'-0"

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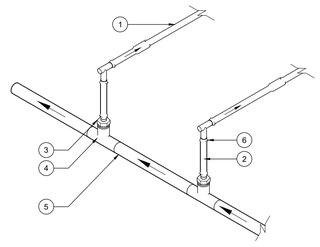
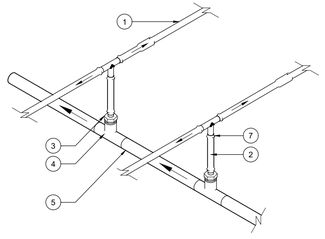


A END FEED MANIFOLD SUPPLY
ISOMETRIC

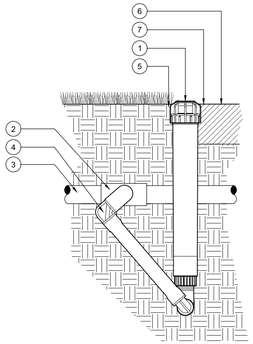


B CENTER FEED MANIFOLD SUPPLY
ISOMETRIC

1. DRIPLINE, TYPE AND DEPTH PER IRRIGATION LEGEND
2. BLANK POLYETHYLENE TUBING
3. BARB X MPT ADAPTER
4. SCH. 40 PVC TEE WITH FPT OUTLET
5. NON-PRESSURE LATERAL DOWNSTREAM FROM DRIP REMOTE CONTROL VALVE ASSEMBLY
6. BARBED INSERT 90° ELL FITTING
7. BARBED INSERT TEE FITTING

2 DRIPLINE MANIFOLD SUPPLY

Scale: N.T.S



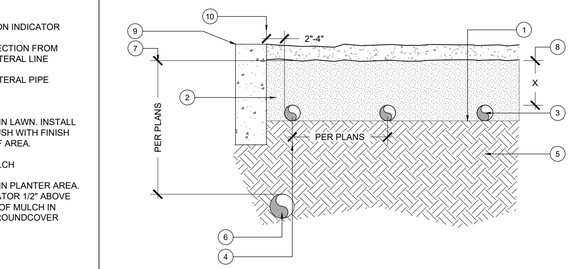
1. DRIP OPERATION INDICATOR
2. 1/2" FPT CONNECTION FROM IRRIGATION LATERAL LINE
3. IRRIGATION LATERAL PIPE
4. SWING JOINT
5. FINISH GRADE IN LAWN. INSTALL INDICATOR FLUSH WITH FINISH GRADE IN TURF AREA.
6. ADJACENT MULCH
7. FINISH GRADE IN PLANTER AREA. INSTALL INDICATOR 1/2" ABOVE FINISH GRADE OF MULCH IN SHRUB AND GROUNDCOVER AREAS

NOTES:

1. LOCATE INDICATOR WITHIN AN AREA ADJACENT TO A WALKWAY, CURB, ETC. AND AWAY FROM PLANT MATERIALS TO PROVIDE EASY VISUAL CONFIRMATION FROM A DISTANCE OF OPERATION.
2. COMPACT SOIL AROUND INDICATOR TO THE SAME DENSITY AS ADJACENT SOIL.

5 DRIP OPERATION INDICATOR

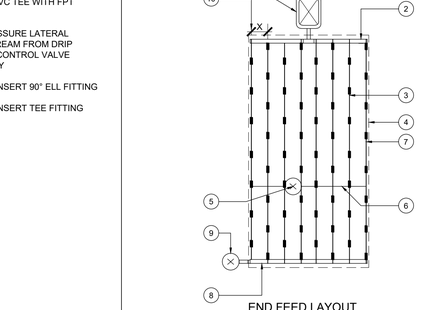
Scale: N.T.S.



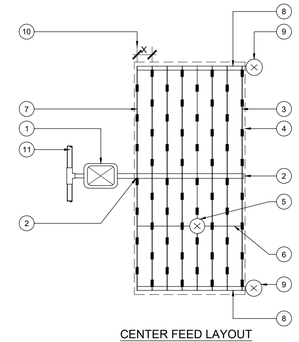
1. FINISH GRADE AT PLANTER
2. MULCH
3. DRIPLINE, SEE IRRIGATION LEGEND
4. REFER TO PLAN FOR SPACING REQ.
5. PREPARED SUBGRADE. REFER TO PLANITNG PLANS AND DETAILS.
6. PVC NON-PRESSURE LATERAL LINE PER IRRIGATION PLANS
7. DEPTH OF PVC LATERAL LINE, SEE PLANS AND SPECS
8. DEPTH OF DRIPLINE, REFER TO IRRIGATION LEGEND
9. PLANTER EDGE
10. LOCATE PERIMETER DRIPLINE LATERALS 2" MIN. AND 4" MAX. AWAY FROM EDGES.

4 ON-SURFACE DRIPLINE

Scale: N.T.S.



END FEED LAYOUT

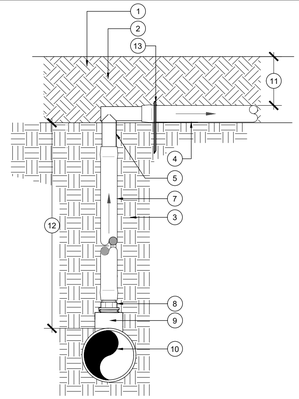


CENTER FEED LAYOUT

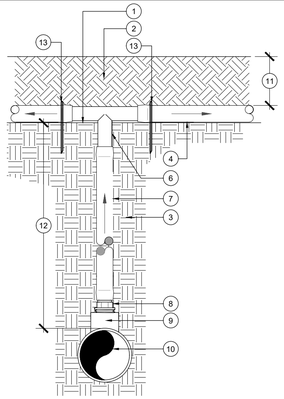
1. DRIP REMOTE CONTROL VALVE ASSEMBLY. REFER TO IRRIGATION PLANS AND LEGEND
2. IRRIGATION NON-PRESSURE PVC LATERAL SUPPLY LINE (HEADER), PER IRRIGATION PLANS AND LEGEND
3. DRIPLINE TUBING LATERAL PER IRRIGATION LEGEND
4. PLANTING AREA PERIMETER
5. AIR/VACUUM RELIEF VALVE PER IRRIGATION LEGEND. INSTALL AT HIGH POINT(S) OF HYDROZONE. LOCATE IN FIELD.
6. AIR/VACUUM RELIEF LATERAL BLANK DRIPLINE TUBING. CONNECT PERPENDICULAR TO DRIPLINE USING MANUFACTURER APPROVED FITTINGS
7. INSTALL PERIMETER DRIPLINE LATERALS 2" TO 4" FROM EDGE OF HARDSCAPE, CURB, ETC.
8. IRRIGATION NON-PRESSURE PVC EXHAUST HEADER.
9. FLUSH VALVE PER IRRIGATION LEGEND. PLUMB TO NON-PRESSURE PVC LATERAL LINE
10. DISTANCES PER IRRIGATION LEGEND
11. IRRIGATION PRESSURE MAINLINE PER PLANS AND SPECS.

1 DRIPLINE LAYOUT (TYPICAL)

Scale: N.T.S.



A MANIFOLD-ELL CONDITION
SECTION ELEVATION



B MANIFOLD-TEE CONDITION
SECTION ELEVATION

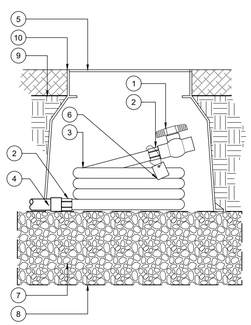
1. FINISH GRADE AT PLANTER
2. MULCH
3. COMPACTED SUBGRADE. REFER TO SPECS.
4. DRIPLINE TUBING, REFER TO IRRIGATION LEGEND FOR ADDITIONAL INFORMATION
5. BARBED DRIP ELBOW FITTING
6. BARBED DRIP TEE FITTING
7. BLANK POLYETHYLENE DRIP TUBING
8. BARBED x 1/2" MPT ADAPTER
9. PVC TEE (SLxSLxTH) WITH 1/2" FPT INLET
10. PVC SUPPLY LATERAL LINE, SIZE AND TYPE PER PLAN
11. DEPTH OF MULCH, REFER TO SPECS.
12. DEPTH OF PVC LATERAL LINE, REFER TO IRRIGATION LEGEND
13. 4" GALVANIZED STAPLE. INSTALL OVER TUBING AT SPACING PER SPECS

3 DRIPLINE TO PVC LATERAL LINE TRANSITION (SUPPLY AND EXHAUST HEADER)

Scale: N.T.S.

NOTES:

1. TAG EACH FLUSH VALVE WITH A PERMANENT METAL ID TAG. NUMBER SHALL CONINCIE WITH CONTROLLER STATION NUMBER. TAG SHALL BE PLACED TO AVOID BEING BURIED.
2. REFER TO SPECS FOR ADDITIONAL INFORMATION.



1. SCH. 40 PVC. BALL VALVE PER LEGENG.
2. IRRIGATION HOSE FITTING
3. 1/2" SIZE IRRIGATION HOSE. 30" MIN. LENGTH. COIL INSIDE VALVE BOX.
4. PVC EXHAUST HEADER PER PLANS AND LEGEND.
5. 10" ROUND VALVE BOX WITH LOCKING COVER AND SS BOLT
6. VALVE ID TAG. SEE NOTE #1.
7. 3/4" CRUSHED DRAIN ROCK, 6" MIN. DEPTH. EXTEND 6" BEYOND ALL EDGES OF VALVE BOX
8. 1/4" GALV. WIRE CLOTH. WRAP AROUND CRUSHED ROCK.
9. FINISH GRADE
10. SET VALVE BOX FLUSH WITH TOP OF MULCH LAYER.

6 MANUAL FLUSH VALVE

Scale: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
DESCRIPTION
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FIELD BOOK

SCALE
HORIZ: ####
VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: N.WILLING
DATE ####

DESIGN BY: J.LEAL
R.C.E. #### DATE ####

CHECKED BY: J.LEAL
R.C.E. #### DATE ####

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE IRRIGATION DETAILS - 4
STA --+-- to STA --+--

T15165503

DWG. NO. LI504

SHEET 64 OF 95

CAD FILE: XREFS: $0R-z43019_xl_22x24 | x-BASE_03089#-03 | x-243019_XR-SITE | x243019_XR-AERIAL | D:_RRG-ASVS_30895 | D:_RRG-CADE_30895 | z2130l_XR-SITE | x2130l_XR-STRP | x3536_02--lighting | x243019_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | PLOT STAMP: Login Name: ajoel
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TREE PROTECTION NOTES:

1. PROTECTION BARRIER: A PROTECTION BARRIER SHALL BE INSTALLED AROUND THE TREE (OR TREES) TO BE PRESERVED PER THE REQUIREMENTS LISTED IN THE REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES. THE BARRIER SHALL BE PLACED AS FAR FROM THE BASE OF THE TREE(S) AS POSSIBLE, PREFERABLY AT TREE PROTECTION ZONE. THE FENCING SHALL BE MAINTAINED IN GOOD REPAIR THROUGHOUT THE DURATION OF THE PROJECT, AND SHALL NOT BE REMOVED, RELOCATED, OR ENCROACHED UPON WITHOUT PERMISSION OF THE ARBORIST INVOLVED.
2. STORAGE OF MATERIALS: THERE SHALL BE NO STORAGE OF MATERIALS OR SUPPLIES OF ANY KINDS WITHIN THE AREA OF THE PROTECTION BARRIERS. CONCRETE AND CEMENT MATERIALS, BLOCK, STONE, SAND AND SOIL SHALL NOT BE PLACED WITHIN THE DRIPLINE OF THE TREE.
3. NO EQUIPMENT IS TO BE OPERATED OR PARKED UNDER A TREE, NOR ARE ANY MATERIALS TO BE STORED WITHIN THE DRIPLINE OF A TREE OR LEANED AGAINST A TREE TRUNK. DO NOT PILE OR COMPACT SOIL WITHIN A DRIPLINE.
4. NO CHEMICAL HERBICIDES ARE TO BE USED WITHIN 100 FEET OF A TREE'S DRIPLINE.
5. DO NOT STRIP TOPSOIL AROUND TREES. ANY VEGETATION TO BE REMOVED SHOULD BE REMOVED BY CUTTING AT GROUND LEVEL RATHER THAN PULLING OUT BY EQUIPMENT.
6. FUEL STORAGE: FUEL STORAGE SHALL NOT BE PERMITTED WITHIN 150 FEET OF ANY TREE TO BE PRESERVED. REFUELING, SERVICING AND MAINTENANCE OF EQUIPMENT AND MACHINERY SHALL NOT BE PERMITTED WITHIN 150 FEET OF PROTECTED TREES.
7. DEBRIS AND WASTE MATERIALS: DEBRIS AND WASTE FROM CONSTRUCTION OR OTHER ACTIVITIES SHALL NOT BE PERMITTED WITHIN PROTECTED AREAS. WASH DOWN OF CONCRETE OR CEMENT HANDLING EQUIPMENT, IN PARTICULAR, SHALL NOT BE PERMITTED WITHIN 150 FEET OF PROTECTED TREES.
8. GRADE CHANGES: GRADE CHANGES CAN BE PARTICULARLY DAMAGING TO TREES. EVEN AS A LITTLE AS TWO INCHES OF FILL CAN CAUSE THE DEATH OF A TREE. LOWERING THE GRADE CAN DESTROY MAJOR PORTIONS OF THE ROOT SYSTEM. ANY GRADE CHANGES PROPOSED SHOULD BE APPROVED BY A REGISTERED CONSULTING ARBORIST BEFORE CONSTRUCTION BEGINS, AND PRECAUTIONS TAKEN TO MITIGATE POTENTIAL INJURIES.
9. DAMAGES: ANY DAMAGES OR INJURIES TO TREES SHOULD BE REPORTED TO THE PROJECT ARBORIST AS SOON AS POSSIBLE. SEVERED ROOTS SHALL BE PRUNED CLEANLY TO HEALTHY TISSUE USING PROPER PRUNING TOOLS. BROKEN BRANCHES OR LIMBS SHALL BE PRUNED ACCORDING TO INTERNATIONAL SOCIETY OF ARBORICULTURE PRUNING GUIDELINES AND ANSI A-300 PRUNING STANDARDS.
10. PREVENTATIVE MEASURES: BEFORE CONSTRUCTION BEGINS, FERTILIZATION OF AFFECTED TREES IS RECOMMENDED TO IMPROVE TREE VIGOR AND HEALTH. SOIL ANALYSES TESTING SHOULD BE COMPLETED TO ASSURE FERTILIZATION WITH THE APPROPRIATE FERTILIZER PRODUCTS. PRUNING OF THE TREE CANOPIES AND BRANCHES SHOULD BE DONE AT THE DIRECTION OF THE PROJECT ARBORIST TO REMOVE ANY DEAD OR BROKEN BRANCHES AND TO PROVIDE NECESSARY CLEARANCES FOR THE CONSTRUCTION EQUIPMENT.
11. CONTRACTOR IS RESPONSIBLE FOR THE HEALTH OF EXISTING TREES DURING CONSTRUCTION. DURING CONSTRUCTION THE IMPACTED TREES SHOULD BE CLOSELY MONITORED TO FURTHER MITIGATE SHOCK SYMPTOMS IF THEY OCCUR. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE TEMPORARY WATER TO IRRIGATE AND WASH THE DUST FROM THE FOLIAGE IF NEEDED. CONTACT THE ARBORIST IF A DECLINE IN TREE CONDITION IS NOTED.

PLANTING NOTES:

1. THE PLANTING PLAN IS DIAGRAMMATIC. ALL PLANT LOCATIONS ARE APPROXIMATE. ON CENTER SPACING AND SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. QUANTITIES, IF SHOWN ON THE PLANTING PLAN ARE APPROXIMATE AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES BETWEEN QUANTITIES AND THE SYMBOLS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES.
2. TREE LOCATION MAY BE ADJUSTED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. CONSULT WITH LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ADJUSTMENT OF TREE LOCATIONS, ESPECIALLY THOSE ARRANGED ON A SPECIFIED MODULE OR IN A GRID PATTERN.
3. CONTRACTOR SHALL ACCOMPANY THE PROJECT AGRONOMIST TO THE SITE FOR THE PURPOSE OF TAKING SOIL SAMPLES, CONDUCTING PERCOLATION TESTS, AND REVIEWING EXISTING SITE CONDITIONS. THE QUANTITY OF SAMPLES ARE NOTED IN THE SPECIFICATIONS. SUBMIT SOIL TEST RESULTS AND RECOMMENDATIONS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SOIL PREPARATION. THIS REQUIREMENT APPLIES TO ALL SOILS AND CONDITIONS WITHIN THIS PROJECT. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, LANDSCAPE ARCHITECT, OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION. SO THAT A CLARIFICATION CAN BE ISSUED.
5. CONTRACTOR SHALL GIVE NOTICE OF PLANTING (3) BUSINESS DAYS PRIOR TO INSTALLATION. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PRIOR TO INSTALLATION FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL.
   a. COUNTERPOINTS OF TREES SHOULD BE STAKED WITH GRADE LATH STAKES. CONTAINER SIZE AND PLANT NAME SHALL BE NOTED ON EACH STAKE.
   b. SHRUBS SHALL BE PLACED IN THEIR "FINAL" LOCATIONS.
   c. LANDSCAPE ARCHITECT HAS THE RIGHT TO ADJUST PLANT LOCATIONS AND SPACING UPON REVIEWING IN THE FIELD.
   d. ALL PLANTED AREAS TO BE WEED FREE PRIOR TO PLANTING.
6. FOR PLANT INSPECTION CALL CITY STREETSCAPES OFFICE (916) 808-6285 OR EMAIL LDUPRIEST@CITYOFSACRAMENTO.ORG. CALL 48 HRS. IN ADVANCE FROM DELIVERY. URBAN FORESTRY FOR TREE INSPECTION @ (916) 808-6285
7. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF PLANTING AREAS ON-SITE AND THOSE AREAS INDICATED ON DRAWINGS, CONTACT OWNER'S AUTHORIZED REPRESENTATIVE FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOW TO OWNER'S AUTHORIZED REPRESENTATIVE IN A TIMELY FASHION MAY RESULT IN CONTRACTOR'S OWN LIABILITY TO RELOCATE PLANT MATERIALS.
8. REFER TO PLANTING DETAILS FOR ALL INSTALLATION AND STAKING REQUIREMENTS.
9. ALL TREES LOCATED WITHIN 3' OF PAVEMENT OR STRUCTURES ARE TO HAVE ROOT CONTROL BARRIERS INSTALLED AT TIME OF PLANTING. UNLESS OTHERWISE SPECIFIED, A 12' LONG X 2' DEEP LINEAR BARRIER SHALL BE INSTALLED AT EDGE OF PAVEMENT/STRUCTURE, WITH LENGTH CENTERED AT THE TREE TRUNK.
10. NURSERY STAKES ARE TO BE REMOVED AFTER PLANTING TREES AND STAKING OR GUYING AS SHOWN ON PLANS AND AS DIRECTED BY LANDSCAPE ARCHITECT.
11. TREES PLANTED AREAS WHERE MAINTENANCE PRACTICE WILL REQUIRE # ARE TO HAVE TRUNKS PROTECTED WITH PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS (ARBOR-GARD+ OR EQUAL).
12. CONTRACTOR IS RESPONSIBLE FOR PRUNING TREES AS DIRECTED BY LANDSCAPE ARCHITECT. NO PRUNING IS TO BE DONE UNLESS DIRECTED.
13. MULCH ALL AREAS (EXCEPT SEEDED AREAS, SLOPES 2:1 AND GREATER, ROOTED CUTTINGS, AND AS NOTED ON PLANS) WITH 3" LAYER OF SPECIFIED MATERIAL.
14. ALL SLOPES 2:1 OR GREATER ARE TO BE STABILIZED WITH JUTE MESH PRIOR TO PLANTING. DO NOT INSTALL JUTE MESH ON SEEDED SLOPES. SEE SPECIFICATIONS.
15. CONTRACTOR SHALL MAINTAIN ALL PLANTING FOR A PERIOD OF SIX (6) MONTHS AFTER COMPLETION AND ACCEPTANCE BY LANDSCAPE ARCHITECT. MAINTENANCE SHALL MEET OR EXCEED THE CITY'S LANDSCAPE MAINTENANCE SPECS AND PROVISIONS (LS18). FOR A COPY, CONTACT THE CITY'S STREETSCAPE OFFICE AT (916) 808-4959 OR (916) 808-6285.
16. PRIOR TO END OF MAINTENANCE PERIOD, LANDSCAPE CONTRACTOR SHALL CONTACT OWNER AND ARRANGE A FINAL WALKTHROUGH INSPECTION BY LANDSCAPE ARCHITECT. OWNER MUST ACCEPT ALL MAINTAINED AREAS IN WRITING PRIOR TO END OF MAINTENANCE PERIOD. OWNER SHALL BE RESPONSIBLE FOR FUTURE MAINTENANCE AFTER THE MAINTENANCE PERIOD AND FINAL WALK THROUGH.

REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES:

1. ANY REGULATED ZONE* WITHIN THE TREE PROTECTION ZONE** OF A CITY TREE*** OR A PRIVATE PROTECTED TREE**** SHALL BE SEPARATELY PERMITTED PRIOR TO THE START OF CONSTRUCTION AND SUPERVISED BY AN ISA CERTIFIED ARBORIST WHO SHALL MAKE RECOMMENDATIONS TO MINIMIZE THE IMPACT OF APPROVED WORK ON THE TREES. SUBMIT A TREE PERMIT APPLICATION TO URBANFORESTRY@CITY OF SACRAMENTO.ORG AND REFER TO THE PLANING PROJECT NUMBER.
2. TREES TO BE PRESERVED WITHIN OR ADJACENT TO THE CONSTRUCTION AREA SHALL BE PROTECTED FROM DISTURBANCE PRIOR TO AND THROUGHOUT CONSTRUCTION BY THE FOLLOWING METHODS OR AS APPROVED BY THE CITY ARBORIST:
   A. PLACE A 6-FT HIGH CHAIN LINK FENCE AT THE EDGE OF THE TPZ.
   B. WHEN THE FULL TPZ CANNOT BE ENCLOSED BY CHAIN LINK FENCE, THE APPLICANT SHALL PROVIDE PROTECTION FOR THE TRUNK AND THE SOIL WITHIN THE ROOT ZONE AS APPROVED BY THE CITY ARBORIST. ACCEPTED PRACTICES ARE:
      i. ADD 4"-6" OF WOOD CHIP MULCH COVERED BY TRENCH PLATES OR 3/4-INCH PLYWOOD ON THE GROUND WITHIN THE TPZ.
      ii. RETAIN ALL EXISTING SIDEWALK, DRIVEWAY OR OTHER CONCRETE THAT COVERS ROOTS OF EXISTING TREES.
      iii. WRAP FOAM AROUND THE TRUNK AND SECURE 2x4s VERTICALLY AROUND ALL SIDES.
3. PROTECTION MEASURES SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT INCLUDING LANDSCAPE INSTALLATION.
4. ANY REGULATED WORK (SEE DEFINITION BELOW) SHALL BE DIRECTLY SUPERVISED OR PERFORMED BY THE PROJECT ARBORIST WHO SHALL BE A QUALIFIED ARBORIST.
5. EXCAVATION, GRADING OR TRENCHING WITHIN THE TPZ TREE SHALL EMPLOY ONE OF THE FOLLOWING METHODS; HYDRO-EXCAVATION, PNEUMATIC, EXCAVATION OR HAND DIGGING.
6. ALL STREET TREES AND PRIVATE PROTECTED TREES SHALL BE WATERED REGULARLY THROUGHOUT THE CONSTRUCTION PROCESS PER PROJECT ARBORIST'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY DAMAGE TO THE CITY TREES ASSOCIATED WITH THE PROJECT. ACCIDENTAL OR NEGLIGENT ACTIONS THAT DAMAGE CITY TREES MAY RESULT IN A PENALTY. THE MONETARY VALUE OF ANY SUCH DAMAGES WILL BE APPRAISED BY THE CITY URBAN FORESTER OR HIS AUTHORIZED REPRESENTATIVE AND SHALL BE EXPRESSED AS THE MONETARY EQUIVALENT OF ALL LABOR AND MATERIALS REQUIRED TO BRING THE TREE IN QUESTION TO A STATE OF COMPARABLE UTILITY WITH REGARDS TO ITS CONDITION AND FUNCTION PRIOR TO THE BEGINNING OF THE PROJECT.

* REGULATED WORK - MEANS PLANTING A CITY TREE, OR ANY ACT THAT COULD ADVERSELY IMPACT THE HEALTH OF A CITY TREE OR PRIVATE PROTECTED TREE SUCH AS PRUNING BRANCHES OR ROOTS LARGER THAN TWO INCHES IN DIAMETER, AFFIXING SIGNS, LIGHTS, OR HARDWARE, GRADING, CLEARING, EXCAVATING, ADDING FILL SOIL, TRENCHING, BORING, COMPACTING, OR PAVING WITHIN THE PROTECTION ZONE, PLACING OR STORING CONSTRUCTION EQUIPMENT OR MATERIAL, OR THE APPLICATION OF ANY HARMFUL SUBSTANCE.

** TREE PROTECTION ZONE - A FULL AND REGULAR CIRCLE AROUND THE TREE WITH A RADIUS THE LENGTH OF THE LONGEST HORIZONTAL BRANCH OR AS SET FORTH IN A TREE PROTECTION PLAN.

*** CITY TREE - MEANS ANY TREE THE TRUNK OF WHICH IS MEASURED FOR AND ONE-HALF FEET ABOVE GROUND, IS PARTIALLY OR COMPLETELY LOCATED IN A CITY PARK, ON REALLY PROPERTY THE CITY OWNS IN FEE, OR ON A PUBLIC RIGHT-OF-WAY, INCLUDING ANY STREET, ROAD, SIDEWALK, PARK STRIP, MOW STRIP, OR ALLY.

**** PRIVATE PROTECTED TREE MEANS:

A. A TREE THAT IS DESIGNATED BY CITY COUNCIL RESOLUTION TO HAVE SPECIAL HISTORICAL VALUE, SPECIAL ENVIRONMENTAL VALUE, OR SIGNIFICANT COMMUNITY BENEFIT, AND IS LOCATED ON PRIVATE PROPERTY;

B. ANY NATIVE VALLEY OAK (QUERCUS LOBATA), BLUE OAK (QUERCUS DOUGLASII), INTERIOR LIVE OAK (QUERCUS WISLIZENII), COAST LIVE OAK (QUERCUS AGRIFOLIA), CALIFORNIA BUCKEYE (AESCULUS CALIFORNICA), OR CALIFORNIA SYCAMORE (PLATANUS RACEMOSA), THAT HAS A DSH OF TWELVE (12) INCHES OR MORE AND IS LOCATED ON PRIVATE PROPERTY;

C. A TREE THAT HAS A DSH OF TWENTY-FOUR (24) INCHES OR MORE LOCATED ON PRIVATE PROPERTY THAT:
   1. IS AN UNDEVELOPED LOT; OR
   2. DOES NOT INCLUDE ANY SINGLE UNIT OR DUPLEX DWELLINGS; OR

D. A TREE THAT HAS A DSH OF THIRTY-TWO (32) INCHES OR MORE LOCATED ON PRIVATE PROPERTY THAT INCLUDES ANY SINGLE UNIT OR DUPLEX DWELLINGS.

FINE GRADING NOTES:

1. FINE GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO IRRIGATION INSTALLATION, SOIL PREPARATION AND PLANTING. ALL PLANTING AREAS SHALL BE GRADES TO THE ELEVATIONS INDICATED ON THE CIVIL ENGINEER'S PLANS.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2% DRAINAGE AWAY FROM ALL BUILDINGS, STRUCTURES, AND WALLS. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PUDDING OR STANDING WATER.
3. EXCESS SOIL FROM LANDSCAPE GRADING TO BE REMOVED AND DISPOSED OF OFF-SITE BY CONTRACTOR.
4. REFER TO CIVIL ENGINEER'S DRAWINGS FOR GRADING AND DRAINAGE INFORMATION AND OTHER RELATED NON-LANDSCAPE WORK. VERIFY ON-SITE AND REPORT DISCREPANCIES TO LANDSCAPE ARCHITECT BEFORE START OF ANY WORK ON THIS CONTRACT.
5. COMPACTED SOIL IN ALL PLANTING AREAS SHALL BE RIPPED TO A DEPTH OF EIGHTEEN (18) INCHES PRIOR TO SOIL AMENDMENT WORK.

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NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
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FIELD BOOK

SCALE
HORIZ: ####
VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: N.WILLING
DATE ####

DESIGN BY: J.LEAL
R.C.E. #### DATE ####

CHECKED BY: J.LEAL
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING NOTES
STA --+-- to STA --+--

T15165503

DWG. NO. LP001
SHEET 65 OF 95

PLOT STAMP: Login Name: jpal Plot Date: July 01, 2026 - 9:19 am

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LANDSCAPE GENERAL PLANTING LEGEND

EXISTING PLANTS TO REMAIN. PROTECT IN PLACE. REFER TO PLANS AND LANDSCAPE PLANTING PLAN KEY NOTES FOR ADDITIONAL REQUIREMENTS.

REPAIR/RESTORE EXISTING TURF - SOD PLANTING

REPAIR OR RESTORE EXISTING LANDSCAPE TO PRE-CONSTRUCTION CONDITION DUE TO RIGHT-OF-WAY IMPROVEMENTS

PROPOSED LANDSCAPE PLANTING AREA

APPROXIMATE EXTENT OF REPAIR/RESTORATION. CONTRACTOR TO FIELD VERIFY AND ADJUST AS DIRECTED BY CITY ENGINEER.

(E) TREE TO BE PROTECTED. REFER TO REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES NOTES ON SHEET LI-001.

TREE LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"	SIZE (HTxSPR)	QTY.	WUCOLS	REMARK
	ACER BUERGERIANUM "TRIDENT MAPLE"	15 GAL. (25'X20')	–	MODERATE PF: 0.4	DECIDUOUS
	CERCIS OCCIDENTALIS "WESTERN REDBUD"	15 GAL. (25'X20')	–	LOW PF: 0.1	DECIDUOUS
	CHIONANTHUS RETUSUS "CHINESE FRINGE TREE"	15 GAL. (30'X15')	–	MODERATE PF: 0.4	DECIDUOUS
	MAGNOLIA GRANDIFLORA 'LITTLE GEM' "LITTLE GEM MAGNOLIA"	15 GAL. (20'X15')	–	MODERATE PF: 0.4	EVERGREEN
	ZELKOVA SERRATA 'WIRELESS' "WIRELESS ZELKOVA"	15 GAL. (20'X35')	–	MODERATE PF: 0.4	DECIDUOUS

SHRUB, VINE & GROUNDCOVER LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"	SIZE (HTxSPR)	SPACING	QTY.	WUCOLS	REMARK
○	ACHILLEA X 'MOONSHINE' "MOONSHINE YARROW"	1 GAL. (4"X6")	15" O.C.	X X	LOW	–
⊙	BULBINE FRUTESCENS 'YELLOW' "YELLOW STALKED BULBINE"	1 GAL. (6"X6")	2' O.C.	X X	LOW	–
✳	CALLISTEMON VINIMALIS 'LITTLE JOHN' "LITTLE JOHN BOTTLEBRUSH"	5 GAL. (12"X15")	5' O.C.	X X	LOW	–
⊙	DIETES BICOLOR AND CVS "FORTNIGHT LILY"	5 GAL. (10"X12")	3' O.C.	X X	LOW	–
⊛	GREVILEA LANIGERA 'COASTAL GEM' "COASTAL GEM WOLLY GREVILEA"	5 GAL. (6"X12")	4' O.C.	X X	LOW	–
⊙	OPUNTIA X BASILARIS 'BABY RITA' "BABY RITA PRICKLY PEAR"	5 GAL (6"X12")	2' O.C.	X X	LOW	–
⊗	OPUNTIA VIOLACEA VAR. SANTA–RITA "SANTA–RITA TUBAC PRICKLY PEAR"	5 GAL (6"X12")	5' O.C.	X X	LOW	–
⊙	SALVIA LEUCANTHA 'SANTA BARBARA'. "SANTA BARBARA MEXICAN BUSH SAGE"	5 GAL (8"X12")	3' O.C.	X X	LOW	–
✳	TAGETES LEMMONII 'COMPACTA' "COMPACT MEXICAN BUSH MARIGOLD"	1 GAL (6"X8")	30" O.C.	X X	LOW	–
✳	WESTRINGIA FRUTICOSA 'MUNDI' "MUNDI COAST ROSEMARY"	5 GAL (6"X15")	4' O.C.	X X	LOW	–
⌬	YUCCA FILAMENTOSA 'BRIGHT EDGE' "ADAM'S NEEDLE"	5 GAL (6"X12")	4' O.C.	X X	MODERATE	–
	TIFGREEN HYBRID BERMUDA SOD					

CAD FILE: XREFS: BBR-243019_JH_22x34 | X-BASE_030895-03 | X-243019_XR-SITE | 243019_XR-ADRAL | x2301_XR-SITE | x2301_XR-STRP | x2536.02-lighting | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x2536.02-PLOT STAMP | x243019_XR-STRP | x243019_XR-TOPO | x2536.02-PLOT STAMP
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Login Name: jleal
Plot Date: July 01, 2026 - 9:25 am

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV --.-- FT
DESCRIPTION
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FIELD BOOK

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VERT: ####

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: N.WILLING DATE ####
DESIGN BY: J.LEAL R.C.E. #### DATE ####
CHECKED BY: J.LEAL R.C.E. #### DATE ####

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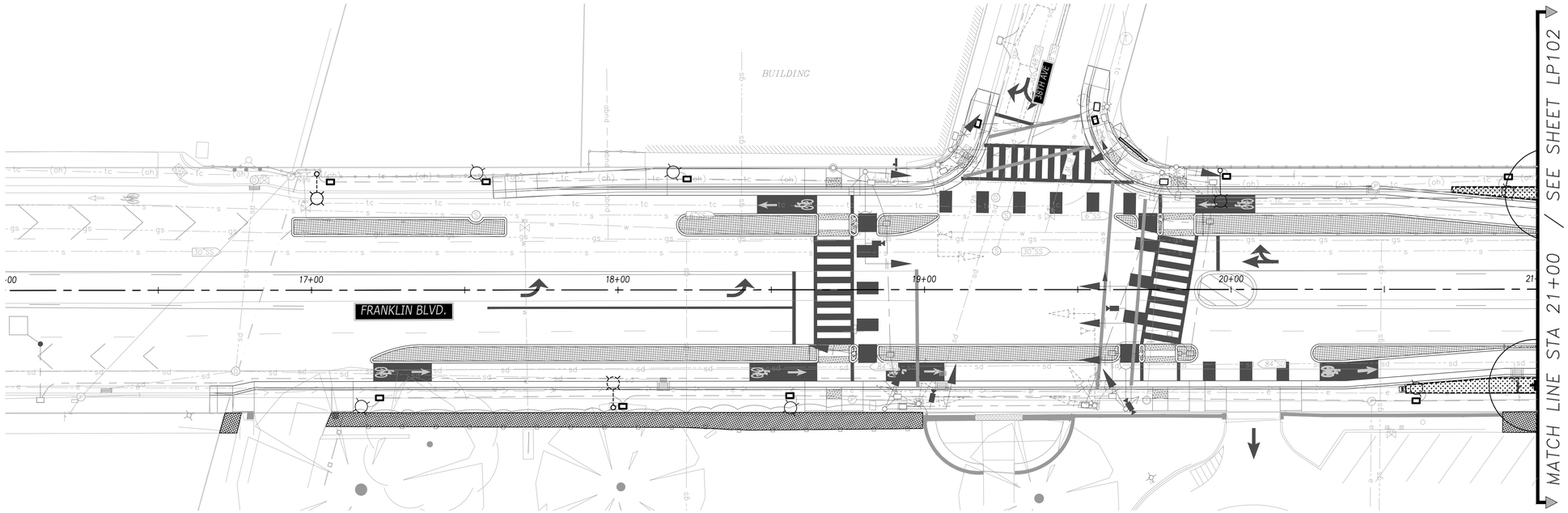
JULY 2026

IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING LEGEND
STA --+-- to STA --+--

T15165503

DWG. NO. LP002
SHEET 66 OF 95



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

LANDSCAPE GENERAL PLANTING LEGEND

- EXISTING PLANTS TO REMAIN. PROTECT IN PLACE. REFER TO PLANS AND LANDSCAPE PLANTING PLAN KEY NOTES FOR ADDITIONAL REQUIREMENTS.
- REPAIR/RESTORE EXISTING TURF - SOD PLANTING
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- PROPOSED LANDSCAPE PLANTING AREA
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- (E) TREE TO BE PROTECTED. REFER TO REQUIRED TREE PRESERVATION MEASURES FOR PROTECTED TREES NOTES ON SHEET LI-001.

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FIELD BOOK

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CITY OF SACRAMENTO
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING PLAN
STA 16+00 to STA 21+00

T15165503

DWG. NO. LP101
SHEET 67 OF 95

CAD FILE: XREFS: BDR-243019_H_23x34 | X-BASE_030895-03 | X-243019_XR-SITE | 243019_XR-AERIAL | x2101_XR-SITE | x2101_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-STRP
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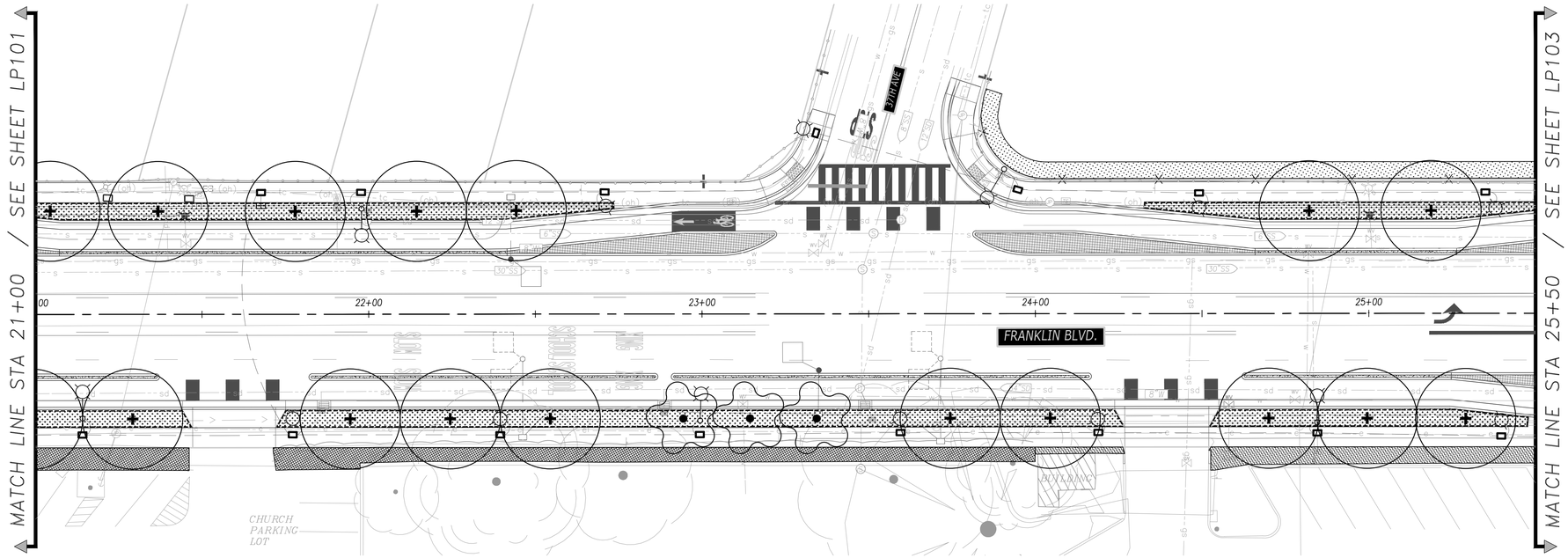

LANDSCAPE GENERAL PLANTING LEGEND

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING PLAN
STA 21+00 to STA 25+50

T15165503

DWG. NO. LP102
SHEET 68 OF 95

CAD FILE: XREFS: BDR-243019_H_23x34 | X-BASE_030895-03 | X-243019_XR-SITE | r243019_XR-AERIAL | r21301_XR-SITE | r21101_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-STRP
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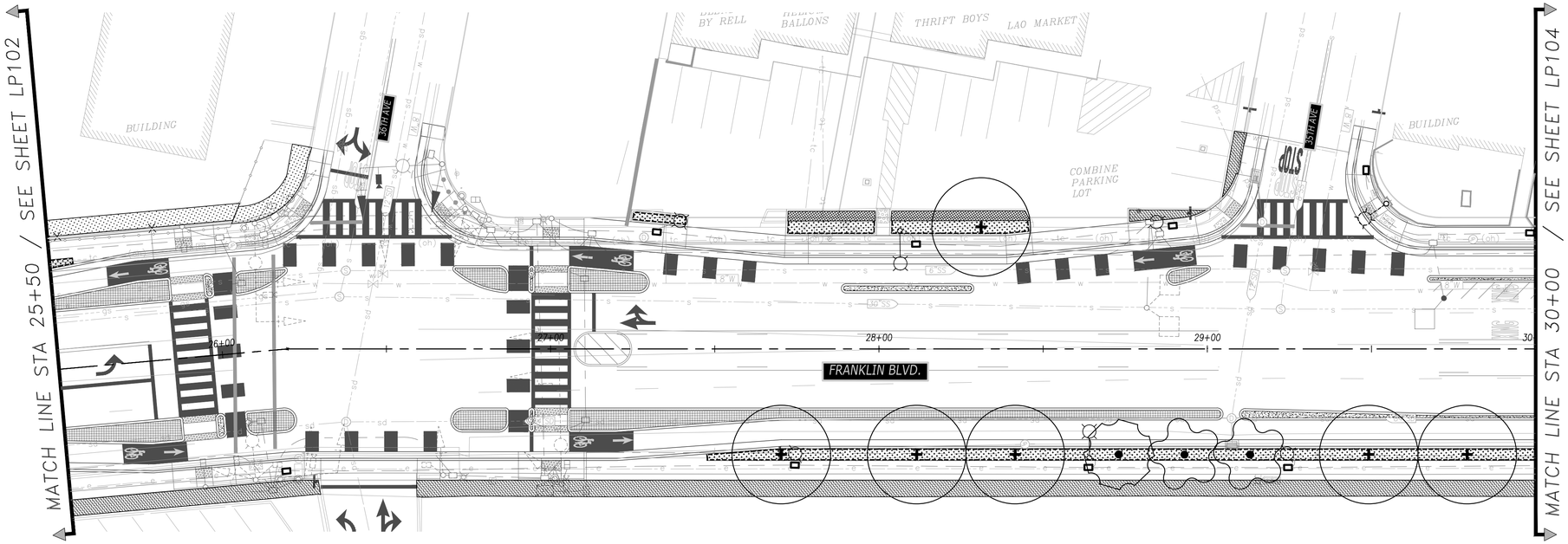
Plot Date: July 01, 2026 - 9:26 am



LANDSCAPE GENERAL PLANTING LEGEND

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CITY OF SACRAMENTO
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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING PLAN
STA 25+50 to STA 30+00

T15165503

DWG. NO. LP103
SHEET 69 OF 95

CAD FILE: XREFS: BDR-243019_H_23x34 | X-BASE_030895-03 | X-243019_XR-SITE | 243019_XR-AERIAL | x21301_XR-SITE | x21301_XR-STRP | x243019_XR-BASEMAP | x243019_XR-4PN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-PLOT STAMP: Login Name: jleal Plot Date: July 01, 2026 - 9:26 am
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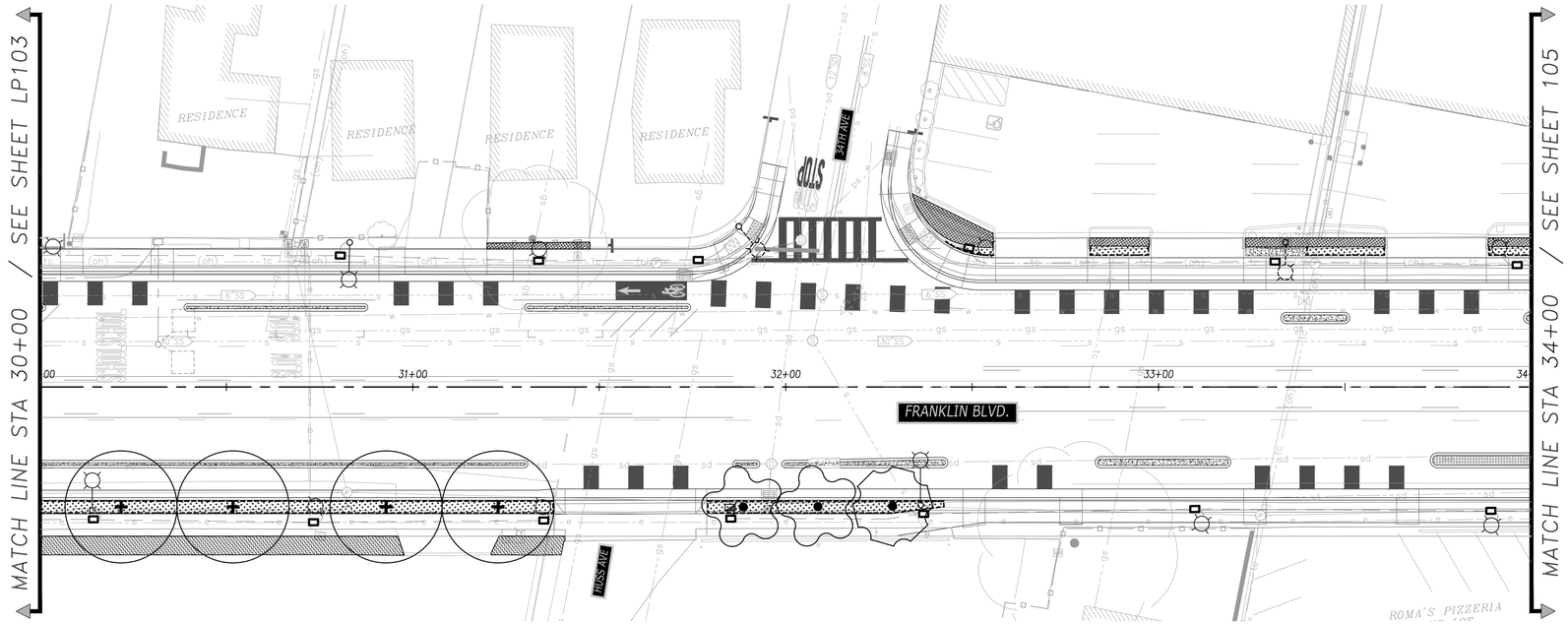

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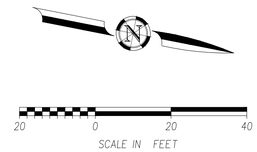

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING PLAN
STA 30+00 to STA 34+00

T15165503

DWG. NO. LP104
SHEET 70 OF 95

CAD FILE: XREFS: BDR-243019_H_23x34 | X-BASE_030895-03 | X-243019_XR-SITE | 243019_XR-AERIAL | x21301_XR-SITE | x21101_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-STRP
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PLOT STAMP: Login Name: jleal Plot Date: July 01, 2026 - 9:26 am

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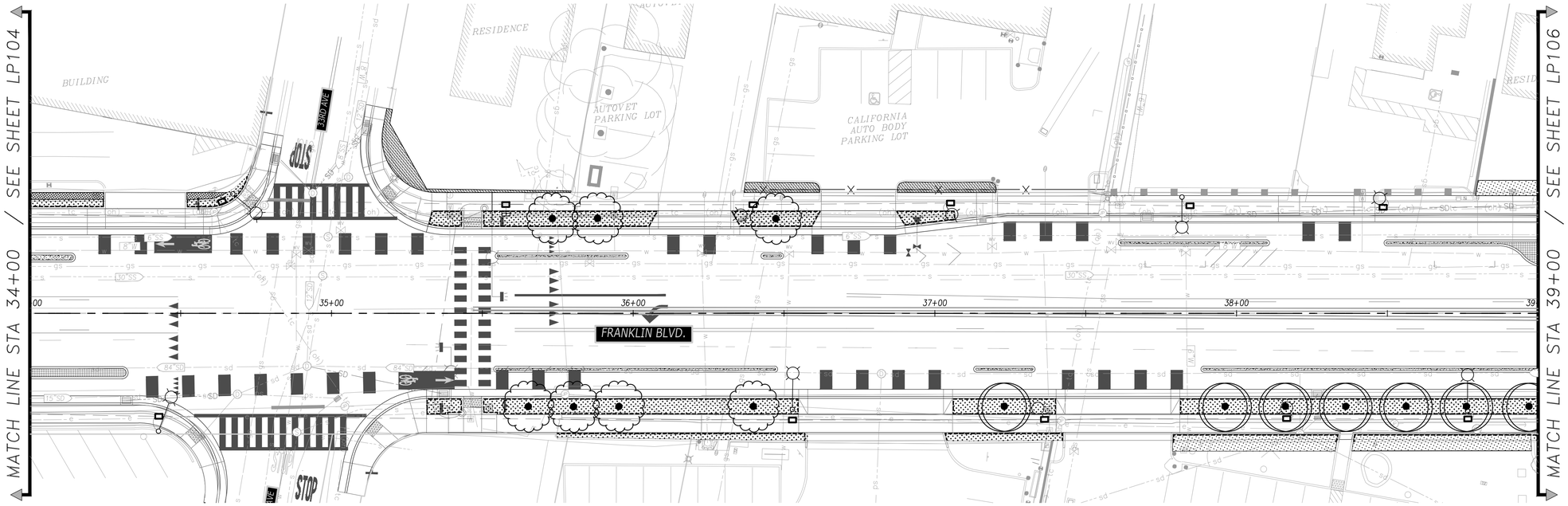
Plot Date: July 01, 2026 - 9:27 am



LANDSCAPE GENERAL PLANTING LEGEND

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CITY OF SACRAMENTO
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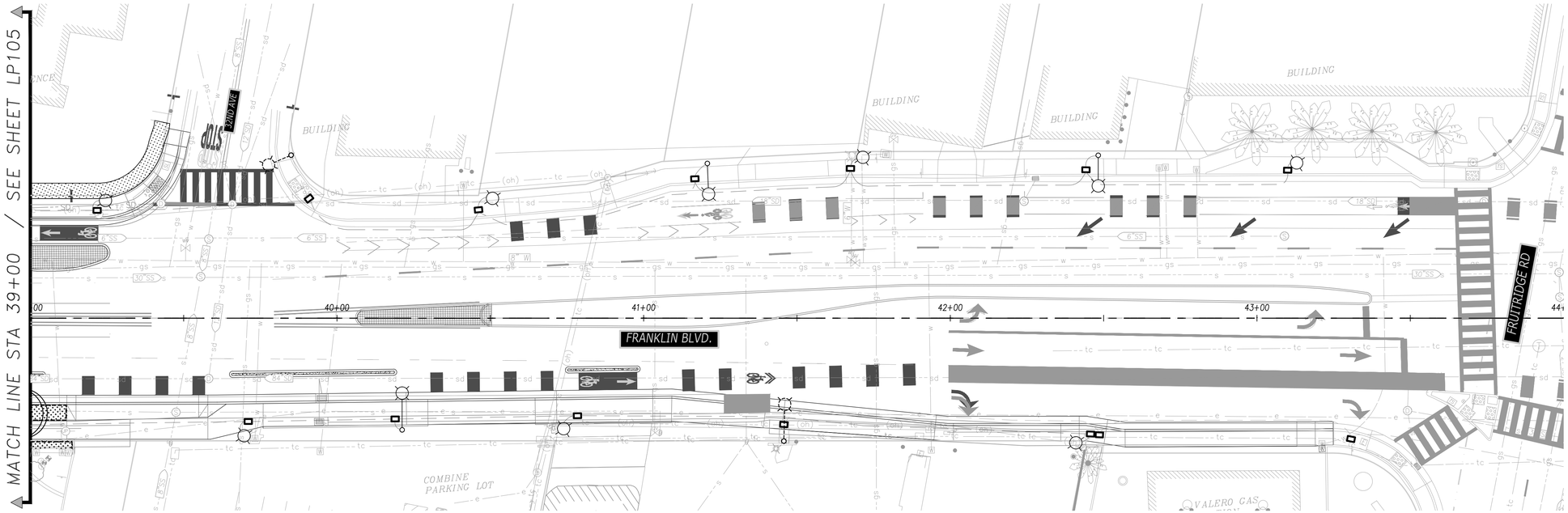
IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING PLAN
STA 34+00 to STA 39+00

T15165503

DWG. NO. LP105
SHEET 71 OF 95



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IMPROVEMENT PLANS FOR
FRANKLIN BOULEVARD COMPLETE STREETS PHASE 3

LANDSCAPE PLANTING PLAN
STA 39+00 to STA 44+00

T15165503

DWG. NO. LP106
SHEET 72 OF 95

CAD FILE: XREFS: BDR-243019_H_23x34 | X-BASE_030895-03 | X-243019_XR-SITE | 243019_XR-AERIAL | x2101_XR-SITE | x2101_XR-STRP | x243019_XR-BASEMAP | x243019_XR-APN | x243019_XR-UTIL | x243019_XR-TOPO | x3536.02-lighting | x243019_XR-S
File Name: Z:\Shared\sacramento\02-revits_projects\030000-revits_exp\030895-03-Rev-prj\04-3600k\LP-000_R-NTC-030895-03.rvt
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Plot Date: July 01, 2026 - 9:27 am

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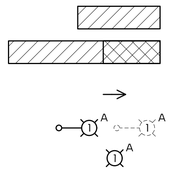
PLOT DATE: Jul 01, 2026-11:44:51am

CITY OF SACRAMENTO ELECTRICAL GENERAL NOTES:

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT EDITION OF THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS (INCLUDING REVISIONS), THE LATEST CITY OF SACRAMENTO TRAFFIC SIGNAL STANDARDS, THE LATEST CITY OF SACRAMENTO QUALIFIED PARTS LIST, AND LATEST CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS (INCLUDING REVISIONS), AND AS SHOWN HEREON, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL OBTAIN AND USE ALL APPLICABLE ADDENDUMS.
2. THE CONTRACTOR SHALL BE IN RECEIPT OF CITY ACCEPTED PLANS PRIOR TO BEGINNING CONSTRUCTION WITHIN THE STREET RIGHT-OF-WAY. ACCEPTANCE OF PLANS BY THE CITY OF SACRAMENTO IS BASED ON THE ASSUMPTION THAT THE INFORMATION CONTAINED ON THE PLANS AND SUPPORTING DOCUMENTS IS CORRECT, AND DOES NOT SUBROGATE THE DESIGN ENGINEER'S RESPONSIBILITY FOR THIS PROJECT.
3. CONTACT THE CITY OF SACRAMENTO CONSTRUCTION SECTION AT (916)808-8300 TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-642-2444, 48 HOURS BEFORE WORK IS TO BEGIN.
5. RESPONSIBILITY FOR FINAL ACCEPTANCE OF LINE AND GRADE BY THE CITY OF SACRAMENTO WILL BE ASSUMED ONLY IF CONSTRUCTION STAKES ARE SET BY THE CITY SURVEY CREWS OR THEIR DESIGNATED REPRESENTATIVE. CITY WILL SET CONSTRUCTION STAKES ONLY IF SO INDICATED ON THE "NOTICE TO PROCEED" WITH CONSTRUCTION ISSUED FOR THIS PROJECT. CONTACT CITY OF SACRAMENTO CONSTRUCTION SECTION TWO (2) WORKING DAYS IN ADVANCE FOR CONSTRUCTION STAKES WITHIN PUBLIC RIGHT-OF-WAY.
6. FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY (2424 ARDEN WAY, SUITE 165, SACRAMENTO, 95825 - PHONE (916)263-2800) PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNS, BRIDGES, BARRICADES, FLAGMEN, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND WORK, AND TO PROVIDE FOR THE PROPER ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC. CONSTRUCTION OPERATIONS SHALL COMPLY WITH THE WORK AREA AND TRAFFIC CONTROL HANDBOOK (WATCH). THE CONTRACTOR SHALL PROVIDE TO THE CITY TRAFFIC ENGINEER FOR REVIEW, A PLAN SHOWING TRAFFIC CONTROL MEASURES AND/OR DETOURS FOR VEHICLES AFFECTED BY THE CONSTRUCTION WORK. THE APPROVED PLAN SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO THE IMPLEMENTATION OF TRAFFIC CONTROL MEASURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE (CITY DATUM) OF ALL UNDERGROUND IMPROVEMENTS CONSTRUCTED AND SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO, AND IN CONSIDERATION OF, THE CITY'S ACCEPTANCE OF WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
10. IF UNUSUAL AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE ANY ARCHAEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
11. CONTRACTOR SHALL BLOW OUT AND CLEAN EXISTING CONDUITS WITHIN THE INTERSECTION, AND ADDITIONAL CONDUIT THAT WILL BE USED IN CONSTRUCTING THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY BROKEN CONDUIT AS REQUIRED BY THE ENGINEER.
12. IF WORK SHOWN ON THESE PLANS HAS NOT COMMENCED WITHIN TWO YEARS FROM THE DATE OF THE CITY'S ACCEPTANCE OF THE PLANS, A SUBSEQUENT PLAN REVIEW AT THE CITY'S DISCRETION MAY BE NECESSARY.
13. CONTRACTOR SHALL COMPLY WITH THE CITY OF SACRAMENTO ADMINISTRATIVE AND TECHNICAL PROCEDURES MANUAL FOR GRADING/EROSION AND SEDIMENT CONTROL.
14. COMPACTION OF TRENCH BACKFILL BY MEANS OF JETTING IS NOT PERMITTED WITHIN THE CITY OF SACRAMENTO UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CITY ENGINEER.
15. CONDUIT, PULL BOX, AND CABINET LOCATIONS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
16. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
17. ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.
18. PULL BOXES LOCATED AT STREET CORNERS SHALL NOT BE PLACED WITHIN THE WHEELCHAIR RAMP.
19. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
20. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR CAPPING AND RELOCATING EXISTING SPRINKLERS AS DIRECTED BY THE ENGINEER.
21. UNLESS OTHERWISE SPECIFIED, ALL NEW TRAFFIC SIGNAL PULL BOXES SHALL BE No. 6. ALL NEW STREET LIGHTING PULL BOXES SHALL BE No. 5 WITH GALVANIZED STEEL LOCKING SECURITY LIDS PER CITY STANDARDS.
22. ALL NEW CONDUIT SHALL HAVE A MINIMUM OF 24" OF COVER.
23. ALL NEW AND EXISTING VEHICLE SIGNAL BACKPLATES SHALL INCLUDE 2" YELLOW RETROREFLECTIVE BORDER.
24. ALL SIGNAL MAST ARM SIGNS RELATING TO TURNING MOVEMENTS TO BE INSTALLED ON CENTER NO LESS THAN 3' FROM THE END OF THE SIGNAL MAST ARM UNLESS OTHERWISE NOTED.
25. ALL STREET NAME SIGNS TO BE INSTALLED ON THE SIGNAL ARM ON CENTER NO MORE THAN 6' FROM THE FACE OF THE SIGNAL POLE.
26. NEW MAST ARM LUMINAIRES SHALL BE 134 W EQUIV. [ESU F A01 3M 032 40 M 130], OR CITY-APPROVED EQUIVALENT.
27. NEW ORNAMENTAL STREET LIGHT LUMINAIRES SHALL BE 40 W EQUIV. [PRIS T3 D4A 40 30K T 5M], OR CITY-APPROVED EQUIVALENT.
28. ALL PULL BOXES NOT LOCATED IN SIDEWALK SHALL INCLUDE 6" CONCRETE COLLAR.

LEGEND

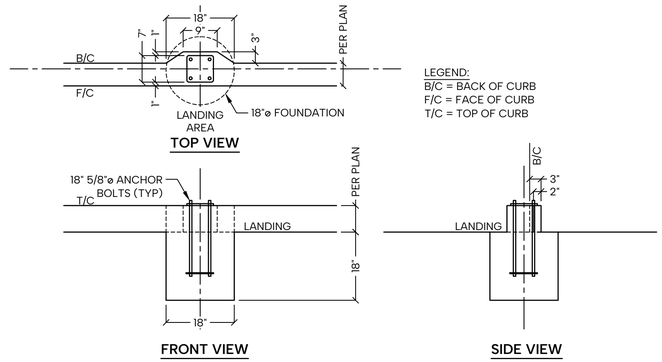
SEE ALSO CITY STANDARD DETAIL E-110 AND CALTRANS STANDARD PLANS ES-1A, ES-1B, & ES-1C.



- VIDEO DETECTION ZONE (PER CITY STANDARD DRAWING E-160)
- BIKE/ VEHICLE VIDEO DETECTION ZONE (PER CITY STANDARD DRAWING E-160)
- GPS EMERGENCY VEHICLE DETECTOR
- LUMINAIRE MAST ARM POLE (A = SERVICE NUMBER, 1 = CIRCUIT NUMBER)
- ORNAMENTAL/DECORATIVE POLE (A = SERVICE NUMBER, 1 = CIRCUIT NUMBER)

BPB AND SIGN INSTALLATION DETAIL

R10-26(MOD)
NO SCALE



LEGEND:
B/C = BACK OF CURB
F/C = FACE OF CURB
T/C = TOP OF CURB

APS POST IN-CURB FOUNDATION

REFER TO ES-7A DETAIL B FOR ADDITIONAL DETAILS
NO SCALE

60% SUBMITTAL

ACCEPTED BY: _____ DATE _____
JOHN MATOSKA, P.E. #E-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
DESIGNED BY: B. SITU DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

GENERAL NOTES, DETAILS, AND LEGEND

E-1
SHEET 74 OF 95

CAD FILE: 3536.02-TS.dwg

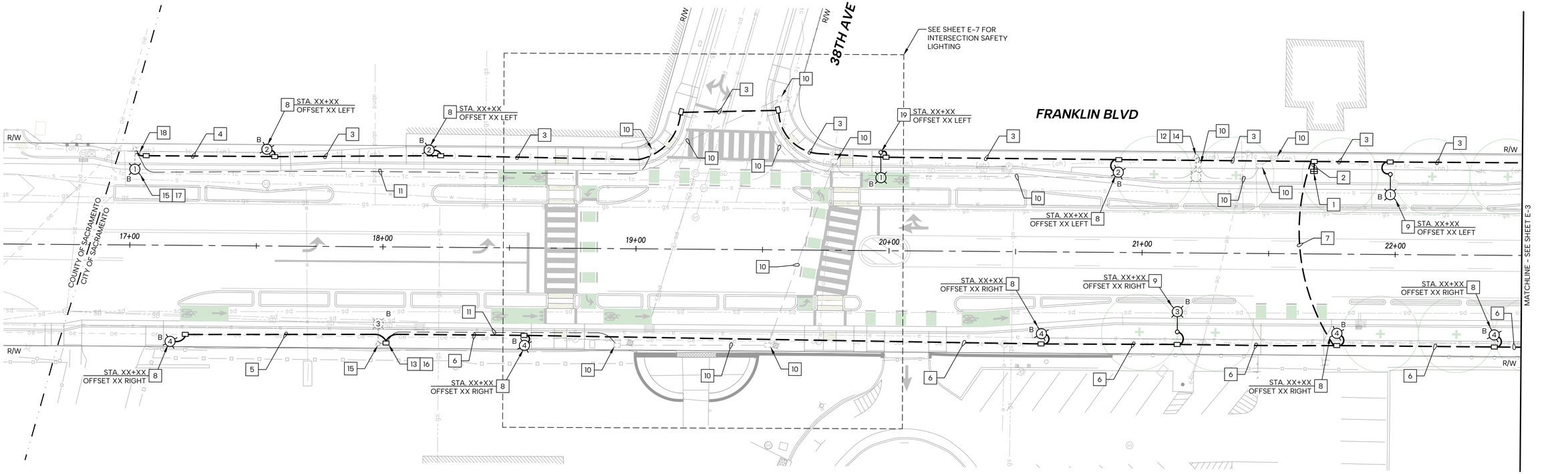
PLOT DATE: Jul 01, 2026–11:45:02am

PROJECT NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL TYPE III-AF METERED SERVICE PEDESTAL #TBD (SERVICE 'B') PER CITY STANDARD DRAWING E-10 AND E-30. SERVICE PEDESTAL SHALL INCLUDE THE FOLLOWING CIRCUIT BREAKERS:
   - -100 A 2P MAIN
   - -15A 1P STREET LIGHTING (Ckt 1)
   - -15A 1P STREET LIGHTING (Ckt 2)
   - -15A 1P STREET LIGHTING (Ckt 3)
   - -15A 1P STREET LIGHTING (Ckt 4)
   - -15A 1P SPARE
   - -15A 1P SPARE
2. PLACE 2"C, 6#6 (Ltg Ckt 1, Ltg Ckt 2, Ltg Ckt 3, & Ltg Ckt 4), 1#6 G.
3. PLACE 2"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
4. PLACE 2"C, 2#6 (Ltg Ckt 1), 1#6 G.
5. PLACE 2"C, 2#6 (Ltg Ckt 4), 1#6 G.
6. PLACE 2"C, 3#6 (Ltg Ckt 3 & Ltg Ckt 4), 1#6 G.
7. PLACE 3"C, 3#6 (Ltg Ckt 3 & Ltg Ckt 4), 1#6 G.
8. FURNISH AND INSTALL ORNAMENTAL STREET LIGHT STANDARD AND FOUNDATION PER CITY OF SACRAMENTO STANDARD DRAWINGS E-40 AND E-60 AND SHEET E-18.
9. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 6-FOOT LUMINAIRE MAST ARM AND FOUNDATION.
10. EXISTING TRAFFIC SIGNAL EQUIPMENT. SEE SHEET E-7 FOR DETAILS.
11. ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
12. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE. ABANDON FOUNDATION. ANCHOR BOLTS AND CONDUIT SHALL BE REMOVED TO A DEPTH OF 2 FEET BELOW THE FINISHED GRADE AND BACKFILLED WITH EQUIVALENT SURROUNDING MATERIAL.
13. REPLACE EXISTING PULL BOX WITH NEW #5 PULL BOX AND ADJUST TO GRADE.
14. COMMUNICATION EQUIPMENT ON EXISTING STREET LIGHT POLE TO BE RELOCATED BY EQUIPMENT OWNER.
15. EXISTING STREET LIGHT TO REMAIN. TRANSFER FROM SERVICE #1066.
16. SPLICE NEW TO EXISTING CONDUCTORS.
17. REPLACE EXISTING HPS LUMINAIRE WITH NEW STANDARD LED LUMINAIRE.
18. CONNECT NEW AND EXISTING CONDUIT.
19. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 8-FOOT LUMINAIRE MAST ARM AND FOUNDATION.

NOTES TO REVIEWERS:

1. OVERHEAD CLEARANCES HAVE NOT BEEN CHECKED FOR THIS SUBMITTAL.
2. STREET LIGHT POLE STATIONING AND OFFSETS TO BE ADDED AFTER CITY REVIEW AND APPROVAL OF PROPOSED POLE LOCATIONS.



NEW LUMINAIRE SCHEDULE

NEW METERED SERVICE PEDESTAL #TBD (120/240V, 1Ø) IS LOCATED ON THE WEST SIDE OF FRANKLIN BOULEVARD 190' ± NORTH OF 38TH AVENUE.

CIRCUIT NO.	NEW 110W LED MAST ARM	NEW 40W ORNAMENTAL	CIRCUIT TOTAL
1			
2			
3			
4			

ALL ROADWAY LUMINAIRES SHALL BE ESU FD A01 3M 032 40 M 105 OR APPROVED EQUAL.
ALL ORNAMENTAL LUMINAIRE TYPES SHALL BE VEGA PRIS T3 D4A 40 30K WITH LEXALITE 424 ACRYLIC PRISMATIC TOP.

PRELIMINARY WILL POPULATE NEXT SUBMITTAL

SMUD SN:
SMUD DESIGNER:
TEL:
EMAIL:

PRELIMINARY WILL POPULATE NEXT SUBMITTAL

20 0 20 40
1"=20' GRAPHIC SCALE

60% SUBMITTAL

ACCEPTED BY: _____ DATE _____
JOHN MATSUMOTO, P.E. #66605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. GARCIA DATE 07/01/26
DESIGNED BY: J. GARCIA DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510 Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3
STREET LIGHTING PLAN

E-2
SHEET 75 OF 95

CAD FILE: 3536.02-Lighting.dwg

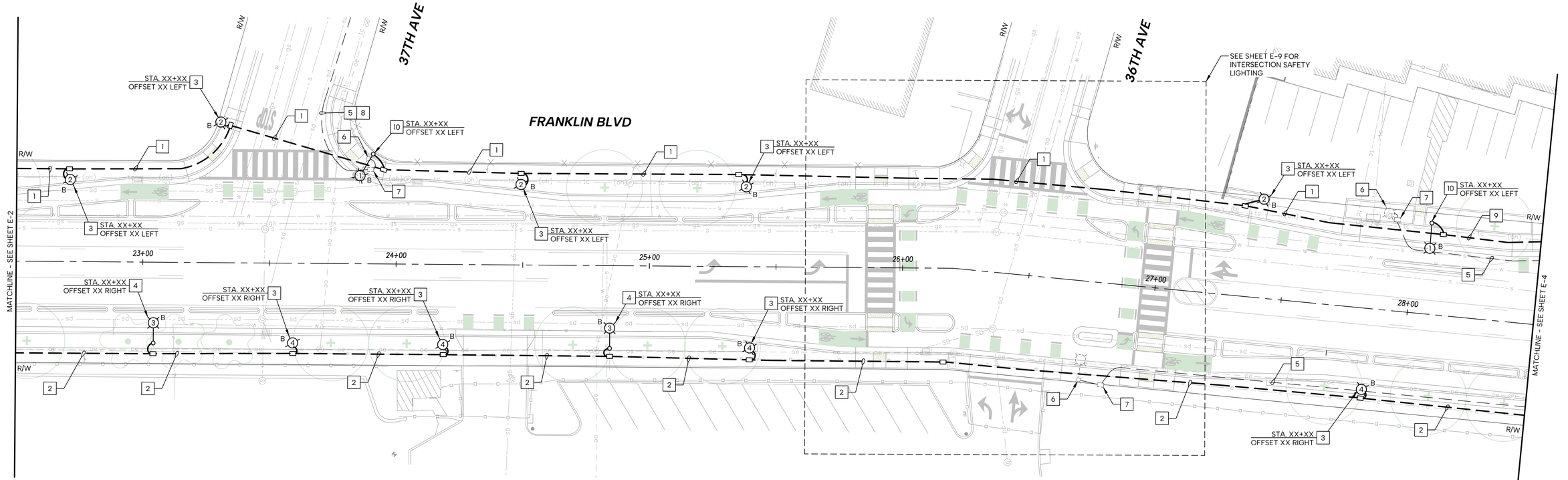
PLOT DATE: Jul 01, 2026–11:45:05am

PROJECT NOTES (THIS SHEET ONLY):

1. PLACE 2"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
2. PLACE 2"C, 3#6 (Ltg Ckt 3 & Ltg Ckt 4), 1#6 G.
3. FURNISH AND INSTALL ORNAMENTAL STREET LIGHT STANDARD AND FOUNDATION PER CITY OF SACRAMENTO STANDARD DRAWINGS E-40 AND E-60 AND SHEET E-18.
4. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 6-FOOT LUMINAIRE MAST ARM AND FOUNDATION.
5. ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
6. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE. ABANDON FOUNDATION. ANCHOR BOLTS AND CONDUIT SHALL BE REMOVED TO A DEPTH OF 2 FEET BELOW THE FINISHED GRADE AND BACKFILLED WITH EQUIVALENT SURROUNDING MATERIAL.
7. EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
8. TO NEXT PULL BOX. MAINTAIN EXISTING STREET LIGHTING CIRCUIT.
9. PLACE 2"C, 2#6 (Ltg Ckt 2), 1#6 G.
10. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 8-FOOT LUMINAIRE MAST ARM AND FOUNDATION.

NOTES TO REVIEWERS:

1. OVERHEAD CLEARANCES HAVE NOT BEEN CHECKED FOR THIS SUBMITTAL.
2. STREET LIGHT POLE STATIONING AND OFFSETS TO BE ADDED AFTER CITY REVIEW AND APPROVAL OF PROPOSED POLE LOCATIONS.



60% SUBMITTAL

20 0 20 40
1"=20' GRAPHIC SCALE

ACCEPTED BY: _____ DATE _____
JOHN MATTOX, P.E. #E-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92' (NAVD88)
CITY OF SACRAMENTO BM 317-F4B
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. GARCIA DATE 07/01/26
DESIGNED BY: J. GARCIA DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

STREET LIGHTING PLAN

E-3
SHEET 76 OF 95

CAD FILE: 3536.02–Lighting.dwg

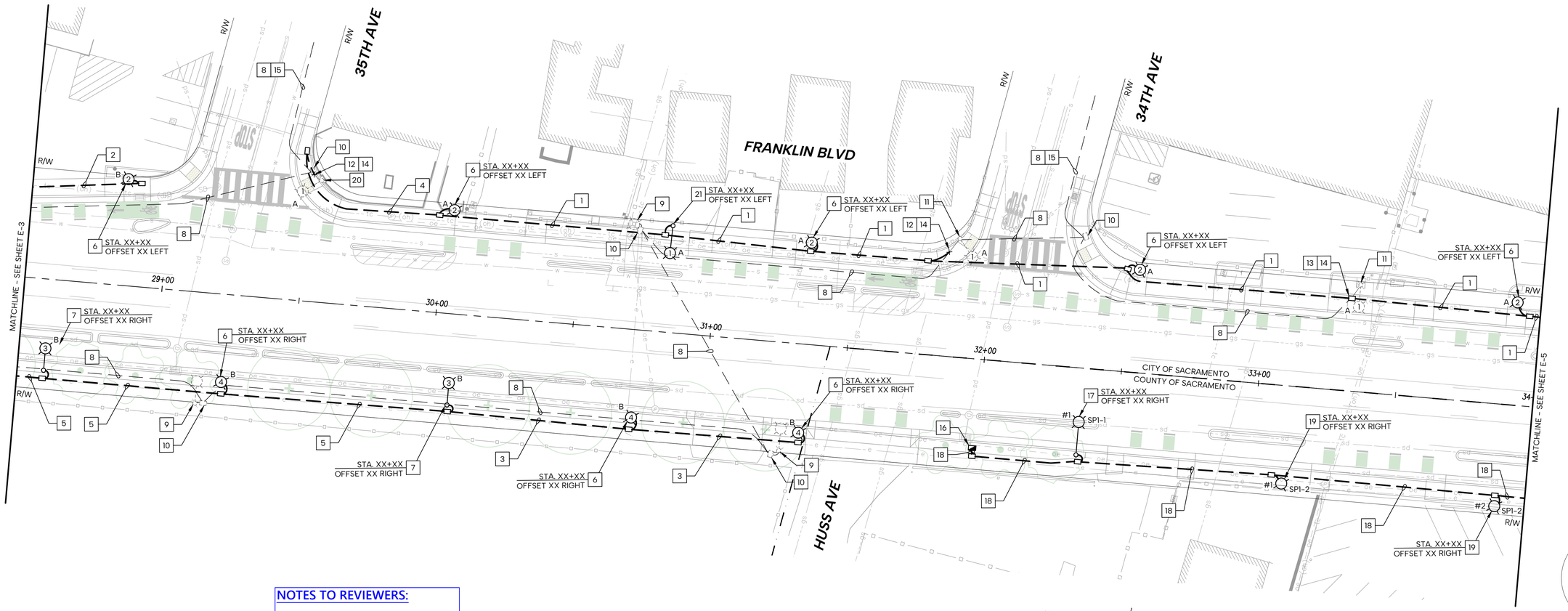
PLOT DATE: Jul 01, 2026–11:45:08am

PROJECT NOTES (THIS SHEET ONLY):

1. PLACE 2"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
2. PLACE 2"C, 2#6 (Ltg Ckt 2), 1#6 G.
3. PLACE 2"C, 2#6 (Ltg Ckt 4), 1#6 G.
4. PLACE 2"C, 2#6 (Ltg Ckt 1), 1#6 G.
5. PLACE 2"C, 3#6 (Ltg Ckt 3 & Ltg Ckt 4), 1#6 G.
6. FURNISH AND INSTALL ORNAMENTAL STREET LIGHT STANDARD AND FOUNDATION PER CITY OF SACRAMENTO STANDARD DRAWINGS E-40 AND E-60 AND SHEET E-18.
7. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 6-FOOT LUMINAIRE MAST ARM AND FOUNDATION.
8. ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
9. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE. ABANDON FOUNDATION. ANCHOR BOLTS AND CONDUIT SHALL BE REMOVED TO A DEPTH OF 2 FEET BELOW THE FINISHED GRADE AND BACKFILLED WITH EQUIVALENT SURROUNDING MATERIAL.
10. EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
11. EXISTING STREET LIGHT TO REMAIN. TRANSFER FROM SERVICE #537.
12. CONNECT NEW AND EXISTING CONDUIT.
13. INSTALL NEW PULL BOX IN EXISTING CONDUIT RUN.
14. SPLICE NEW TO EXISTING CONDUCTORS.
15. TO NEXT PULL BOX. MAINTAIN EXISTING STREET LIGHTING CIRCUIT.
16. FURNISH AND INSTALL METERED SERVICE PEDESTAL (SP1) PER COUNTY OF SACRAMENTO STANDARD DETAILS 5-9M. DOOR SHALL FACE EAST. SERVICE PEDESTAL SHALL INCLUDE THE FOLLOWING CIRCUIT BREAKERS:
    - -100 A 2P MAIN
    - -15A 1P STREET LIGHTING (Ckt 1)
    - -15A 1P STREET LIGHTING (Ckt 2)
    - -15A 1P SPARE
    - -15A 1P SPARE
    - -15A 1P SPARE
    - -15A 1P SPARE
17. FURNISH AND INSTALL STANDARD TYPE A STREET LIGHT POLE (28'-6" POLE WITH 31' FIXTURE MOUNTING HEIGHT) WITH 10' LUMINAIRE MAST ARM PER COUNTY OF SACRAMENTO STANDARD DETAILS 5-1 AND 5-3.
18. INSTALL 1.5"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
19. FURNISH AND INSTALL DECORATIVE STREET LIGHT STANDARD AND FOUNDATION PER SHEET E-18.
20. EXISTING STREET LIGHT TO REMAIN. TRANSFER FROM SERVICE #538.
21. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 8-FOOT LUMINAIRE MAST ARM AND FOUNDATION.

COUNTY OF SACRAMENTO STREET LIGHTING GENERAL NOTES (THIS SHEET TO E-6):

1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND SHALL PERFORM ALL LABOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SACRAMENTO COUNTY STANDARD SPECIFICATIONS AND STANDARD PLANS AND LATEST CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS (INCLUDING REVISIONS).
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE.
3. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL. TRAFFIC CONTROL MEASURES SHALL CONFORM TO SACRAMENTO COUNTY STANDARDS AND THE CA MUTCD.
4. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK CALLED FOR ON THESE PLANS UNTIL THE COUNTY ENGINEER'S SIGNATURE OF APPROVAL IS AFFIXED HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.
5. CONDUITS FOR ELECTRICAL OR OTHER UTILITIES SHALL BE LOCATED TO NOT CONFLICT WITH REQUIRED STREET TREE LOCATIONS.
6. NEW STREET LIGHT LED LUMINAIRES SHALL BE LEOTEK GCJ3-30J-MV-40K-2R-GY-095-PRC7-FOC-WL-SC OR APPROVED EQUIVALENT.
7. NO TREES SHALL BE PLANTED CLOSER THAN 20' FROM A STREET LIGHT UNLESS PERMITTED BY THE DEPARTMENT OF TRANSPORTATION (DOT).
8. SUPPLY ADDITIONAL DECORATIVE STREET LIGHTS TO THE COUNTY FOR FUTURE STREET LIGHT REPLACEMENT.
9. PULL BOXES SHALL BE No. 3-1/2 UNLESS OTHERWISE NOTED.



NOTES TO REVIEWERS:

1. OVERHEAD CLEARANCES HAVE NOT BEEN CHECKED FOR THIS SUBMITTAL.
2. STREET LIGHT POLE STATIONING AND OFFSETS TO BE ADDED AFTER CITY REVIEW AND APPROVAL OF PROPOSED POLE LOCATIONS.
3. PENDING APPROVAL FROM COUNTY DOT TO UTILIZE CITY STANDARD DECORATIVE STREET LIGHT POLE PER COUNTY IMPROVEMENT STANDARDS SECTION 5-7N.

60% SUBMITTAL

FOR COUNTY USE:

STREET LIGHTING PLANS APPROVED BY:

STEPHEN V. WHITE, CHIEF DEPARTMENT OF TRANSPORTATION — DATE

N

20 0 20 40
1"=20' GRAPHIC SCALE

ACCEPTED BY: _____ DATE
JOHN MATSON, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

CAD FILE: 3536.02-Lighting.dwg

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. GARCIA DATE 07/01/26
DESIGNED BY: J. GARCIA DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332

PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

STREET LIGHTING PLAN

E-4
SHEET 77 OF 95

PLOT DATE: Jul 01, 2026–11:45:11am

PROJECT NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL TYPE III-AF METERED SERVICE PEDESTAL #TBD (SERVICE 'A') PER CITY STANDARD DRAWING E-10 AND E-30. SERVICE PEDESTAL SHALL INCLUDE THE FOLOWING CIRCUIT BREAKERS:
   - -100 A 2P MAIN
   - -15A 1P STREET LIGHTING (Ckt 1)
   - -15A 1P STREET LIGHTING (Ckt 2)
   - -15A 1P SPARE
   - -15A 1P SPARE
   - -15A 1P SPARE
   - -15A 1P SPARE
2. PLACE 2"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
3. TO NEXT PULL BOX. MAINTAIN EXISTING STREET LIGHTING CIRCUIT.
4. FURNISH AND INSTALL ORNAMENTAL STREET LIGHT STANDARD AND FOUNDATION PER CITY OF SACRAMENTO STANDARD DRAWINGS E-40 AND E-60 AND SHEET E-18.
5. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 8-FOOT LUMINAIRE MAST ARM AND FOUNDATION.
6. ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
7. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE. ABANDON FOUNDATION. ANCHOR BOLTS AND CONDUIT SHALL BE REMOVED TO A DEPTH OF 2 FEET BELOW THE FINISHED GRADE AND BACKFILLED WITH EQUIVALENT SURROUNDING MATERIAL.
8. EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
9. EXISTING STREET LIGHT TO REMAIN. TRANSFER FROM SERVICE #537.
10. INSTALL CONDUIT INTO EXISTING PULL BOX.
11. SPLICE NEW TO EXISTING CONDUCTORS.
12. FURNISH AND INSTALL STANDARD TYPE A STREET LIGHT POLE (28'-6" POLE WITH 31' FIXTURE MOUNTING HEIGHT) WITH 10' LUMINAIRE MAST ARM PER COUNTY OF SACRAMENTO STANDARD DETAILS 5-1 AND 5-3.
13. INSTALL 1.5"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
14. FURNISH AND INSTALL DECORATIVE STREET LIGHT STANDARD AND FOUNDATION PER SHEET E-18.

NEW LUMINAIRE SCHEDULE

NEW METERED SERVICE PEDESTAL #TBD (120/X.XX V) IS LOCATED ON THE WEST SIDE OF FRANKLIN BOULEVARD 60' ± NORTH OF 33RD AVENUE.

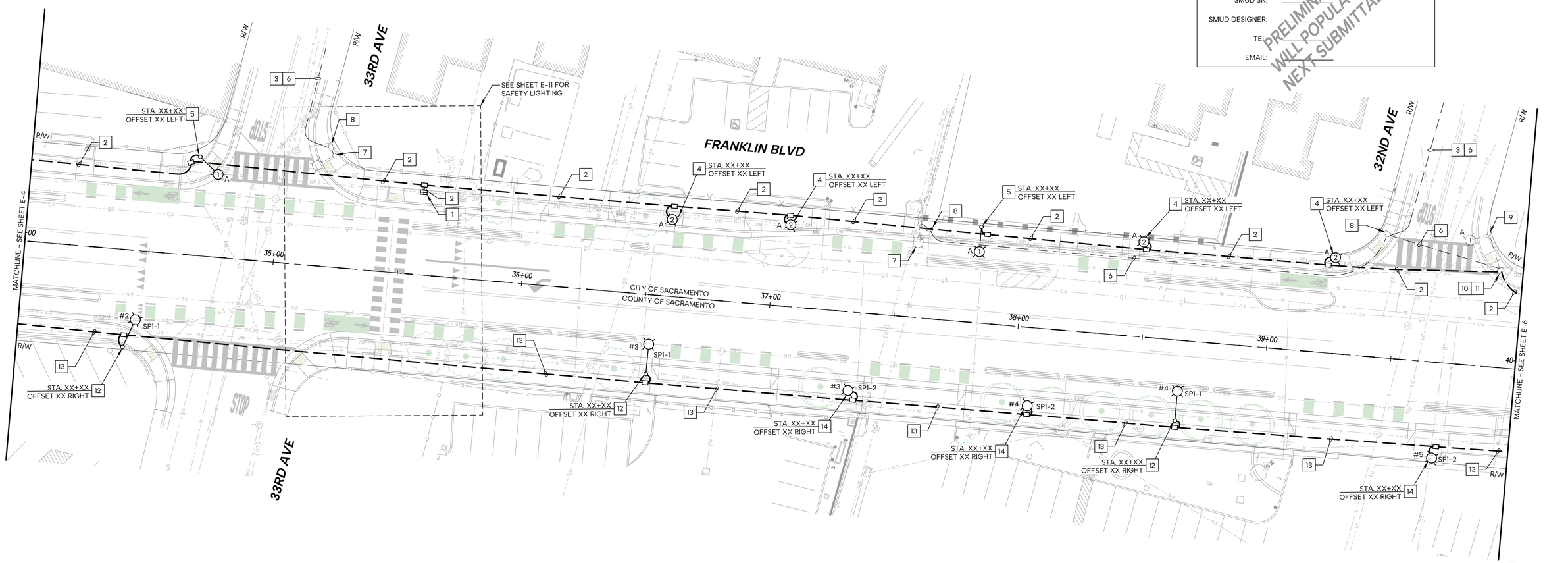
CIRCUIT NO.	NEW 110W LED MAST ARM	NEW 30W ORNAMENTAL	CIRCUIT TOTAL
1			
2			

ALL ROADWAY LUMINAIRE TYPES SHALL BE ESU FD A01 3M 032 40 M 105 OR APPROVED EQUAL.
ALL ORNAMENTAL LUMINAIRE TYPES SHALL BE VEGA PRIS T3 D4A 40 30K WITH LEXALITE 424 ACRYLIC PRISMATIC TOP.

PRELIMINARY WILL POPULATE NEXT SUBMITTAL

SMUD SN: _____
SMUD DESIGNER: _____
TEL: _____
EMAIL: _____

PRELIMINARY WILL POPULATE NEXT SUBMITTAL



NOTES TO REVIEWERS:

1. OVERHEAD CLEARANCES HAVE NOT BEEN CHECKED FOR THIS SUBMITTAL.
2. STREET LIGHT POLE STATIONING AND OFFSETS TO BE ADDED AFTER CITY REVIEW AND APPROVAL OF PROPOSED POLE LOCATIONS.
3. PENDING APPROVAL FROM COUNTY DOT TO UTILIZE CITY STANDARD DECORATIVE STREET LIGHT POLE PER COUNTY IMPROVEMENT STANDARDS SECTION 5-7N.

60% SUBMITTAL

20 0 20 40
1"=20' GRAPHIC SCALE

FOR COUNTY USE:

STREET LIGHTING PLANS APPROVED BY:	
STEPHEN V. WHITE, CHIEF DEPARTMENT OF TRANSPORTATION	DATE

ACCEPTED BY: _____ DATE _____
JOHN MATSUMOTO, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. GARCIA DATE 07/01/26
DESIGNED BY: J. GARCIA DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510 Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

STREET LIGHTING PLAN

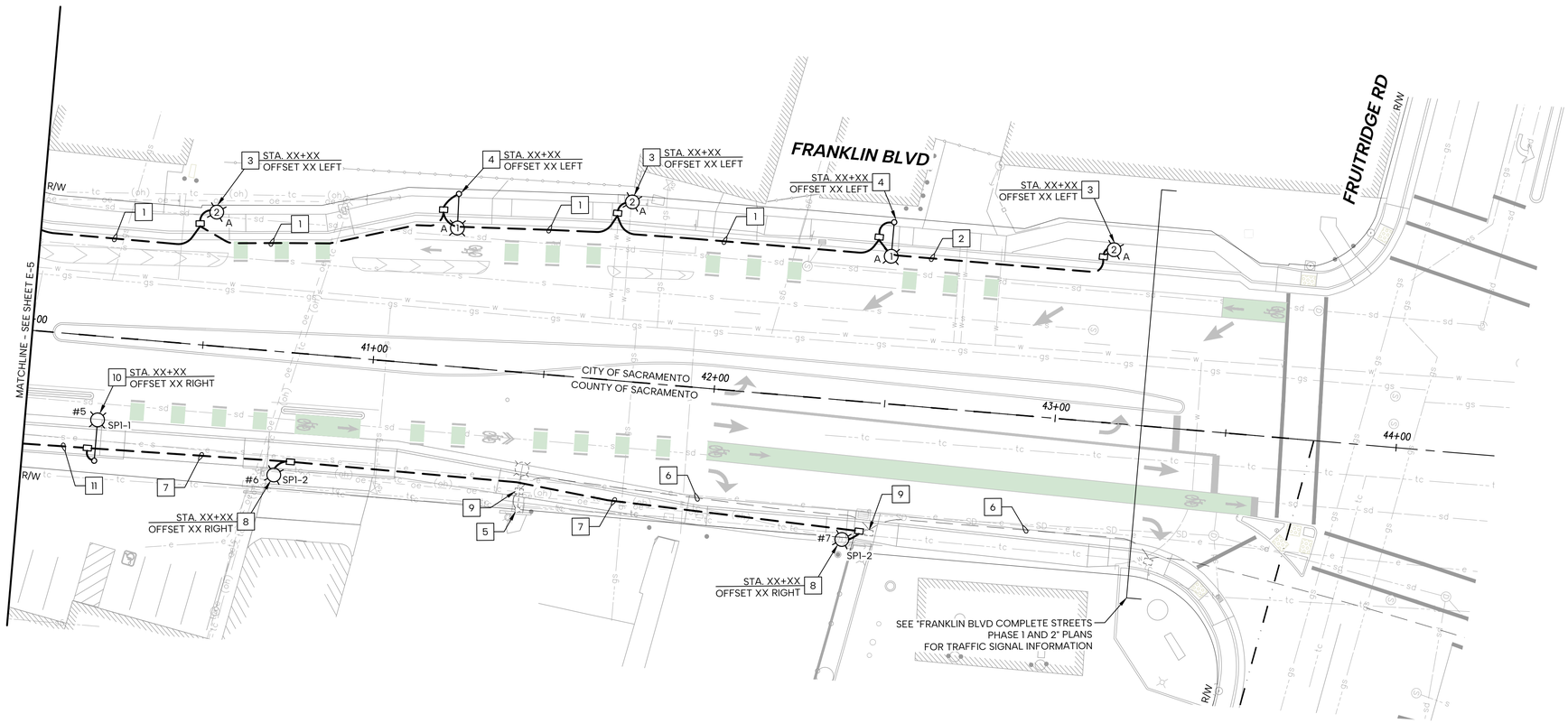
E-5
SHEET 78 OF 95

CAD FILE: 3536.02-Lighting.dwg

PLOT DATE: Jul 01, 2026–11:45:13am

PROJECT NOTES (THIS SHEET ONLY):

1. PLACE 2"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 1#6 G.
2. PLACE 2"C, 2#6 (Ltg Ckt 2), 1#6 G.
3. FURNISH AND INSTALL ORNAMENTAL STREET LIGHT STANDARD AND FOUNDATION PER CITY OF SACRAMENTO STANDARD DRAWINGS E-40 AND E-60 AND SHEET E-18.
4. FURNISH AND INSTALL 30' TYPE 15 STREET LIGHT STANDARD WITH 8-FOOT LUMINAIRE MAST ARM AND FOUNDATION.
5. EXISTING STREET LIGHT TO REMAIN. SEE FRANKLIN BLVD COMPLETE STREET PHASE 1 AND 2 PLANS.
6. EXISTING STREET LIGHT CONDUIT AND CONDUCTORS TO REMAIN.
7. INSTALL 1.5"C, 2#6 (Ltg Ckt 1, Ltg Ckt 2), 1#6 G.
8. FURNISH AND INSTALL DECORATIVE STREET LIGHT STANDARD AND FOUNDATION PER SHEET E-18.
9. ADJUST PULL BOX TO GRADE.
10. FURNISH AND INSTALL STANDARD TYPE A STREET LIGHT POLE (28'-6" POLE WITH 31' FIXTURE MOUNTING HEIGHT) WITH 10' LUMINAIRE MAST ARM PER COUNTY OF SACRAMENTO STANDARD DETAILS 5-1 AND 5-3.
11. INSTALL 1.5"C, 2#6 (Ltg Ckt 1, Ltg Ckt 2), 1#6 G.



NOTES TO REVIEWERS:

1. OVERHEAD CLEARANCES HAVE NOT BEEN CHECKED FOR THIS SUBMITTAL.
2. STREET LIGHT POLE STATIONING AND OFFSETS TO BE ADDED AFTER CITY REVIEW AND APPROVAL OF PROPOSED POLE LOCATIONS.
3. PENDING APPROVAL FROM COUNTY DOT TO UTILIZE CITY STANDARD DECORATIVE STREET LIGHT POLE PER COUNTY IMPROVEMENT STANDARDS SECTION 5-7N.

60% SUBMITTAL

20 0 20 40
1"=20' GRAPHIC SCALE

PRELIMINARY

ACCEPTED BY: _____ DATE _____
JOHN MATCHNEY, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

FOR COUNTY USE:

STREET LIGHTING PLANS APPROVED BY:

STEPHEN V. WHITE, CHIEF DEPARTMENT OF TRANSPORTATION — DATE

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92' (NAVD88)
CITY OF SACRAMENTO BM 317-F4B
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. GARCIA DATE 07/01/26
DESIGNED BY: J. GARCIA DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510 Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3
STREET LIGHTING PLAN

E-6
SHEET 79 OF 95

CAD FILE: 3536.02-Lighting.dwg

PLOT DATE: Jul 01, 2026-11:45:29am

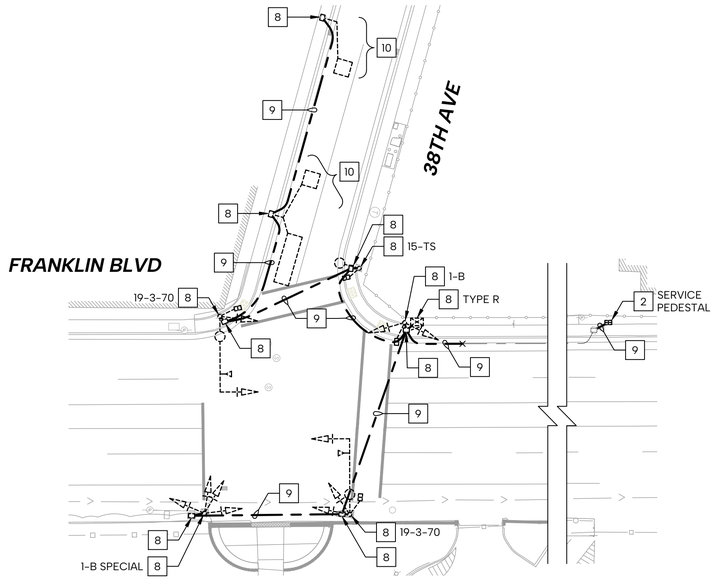
PROJECT NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL MODEL TYPE R44 TS2 TYPE 1 CABINET WITH NEMA TS2 TYPE 2 ATCeX CONTROLLER ASSEMBLY IN ACCORDANCE WITH THE LATEST CITY SPECIFICATIONS AND ADDENDUMS AT TIME OF EQUIPMENT SUBMITTAL. FURNISH ALL NECESSARY AUXILIARY EQUIPMENT TO BE A COMPLETE FUNCTIONING AND FIELD-READY SYSTEM WITH ALL NECESSARY CABLING. THE CONTROLLER SHALL BE LOADED WITH THE LATEST VERSION OF THE D4 SOFTWARE. FURNISH AND INSTALL THE FOLLOWING, PER THE CITY QUALIFIED PARTS LIST, COMMUNICATION & IP CAMERA SCHEDULES ON E-8, AND LAYOUT ON E-15, WITH ALL ASSOCIATED CABLING AND POWER SUPPLIES:
   - NETWORK SWITCH
   - FIBER PATCH PANEL
   - CCTV POE INJECTOR
   - POLARA ICCU-S2 INTERCONNECT BOARD WITH SDLC CONNECTION
   - ECONOLITE OPTIVU COMM. MANAGER WITH SDLC
   - OPTICOM GPS EVP INTERFACE PANEL
   - 4-CHANNEL EVP PHASE SELECTOR
   - SURGE PROTECTOR

   CONTRACTOR TO PROGRAM VIDEO DETECTION AND GPS EQUIPMENT. CONTRACTOR SHALL FOLLOW CITY OF SACRAMENTO TURN-ON PROCESS. ALL EQUIPMENT SHALL BE LISTED IN THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST.
2. RELOCATE EXISTING (120/240 V) TYPE III-AF METERED SERVICE PEDESTAL #1066 ON NEW FOUNDATION.
3. EXISTING 2"C. REMOVE EXISTING CONDUCTORS AND INTERCONNECT CABLE. PLACE 3#14 (PEU), 3#6 (Ltg Ckt 1 & 2), 2#6 (CONTROLLER PWR), 1#10 G.
4. FURNISH AND INSTALL GPS EVP RADIO ON POLE.
5. FURNISH AND INSTALL ECONOLITE OPTIVU VIDEO DETECTION CAMERA ON 28" MOUNTING BRACKET ON SIGNAL MAST ARM PER CITY STANDARD DETAILS E-200, E-210, AND E-220. AN ECONOLITE REPRESENTATIVE SHALL INSTALL AND CONFIGURE THE VIDEO DETECTION SYSTEM. ALL CHANNELS SHALL BE CONFIGURED PER THE CITY OF SACRAMENTO DETECTOR PROGRAMMING SHEET.
6. FURNISH AND INSTALL IP CAMERA ON SIGNAL POLE. SEE CCTV EQUIPMENT SCHEDULE ON SHEET E-8.
7. CONNECT NEW AND EXISTING CONDUIT.
8. EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE MAST ARM POLES AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
9. ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
10. ABANDON EXISTING LOOPS, CONDUIT, AND DETECTOR HANDHOLES IN THESE LANES.
11. ADJUST PULL BOX TO GRADE.
12. INSTALL CONDUIT IN EXISTING PULL BOX.
13. PLACE 2"C, 3#14 (PEU), 3#6 (Ltg Ckt 1 & 2), 2#6 (CONTROLLER PWR), 1#10 G.
14. PLACE 2"C, 1 DLC, 1#10 G.

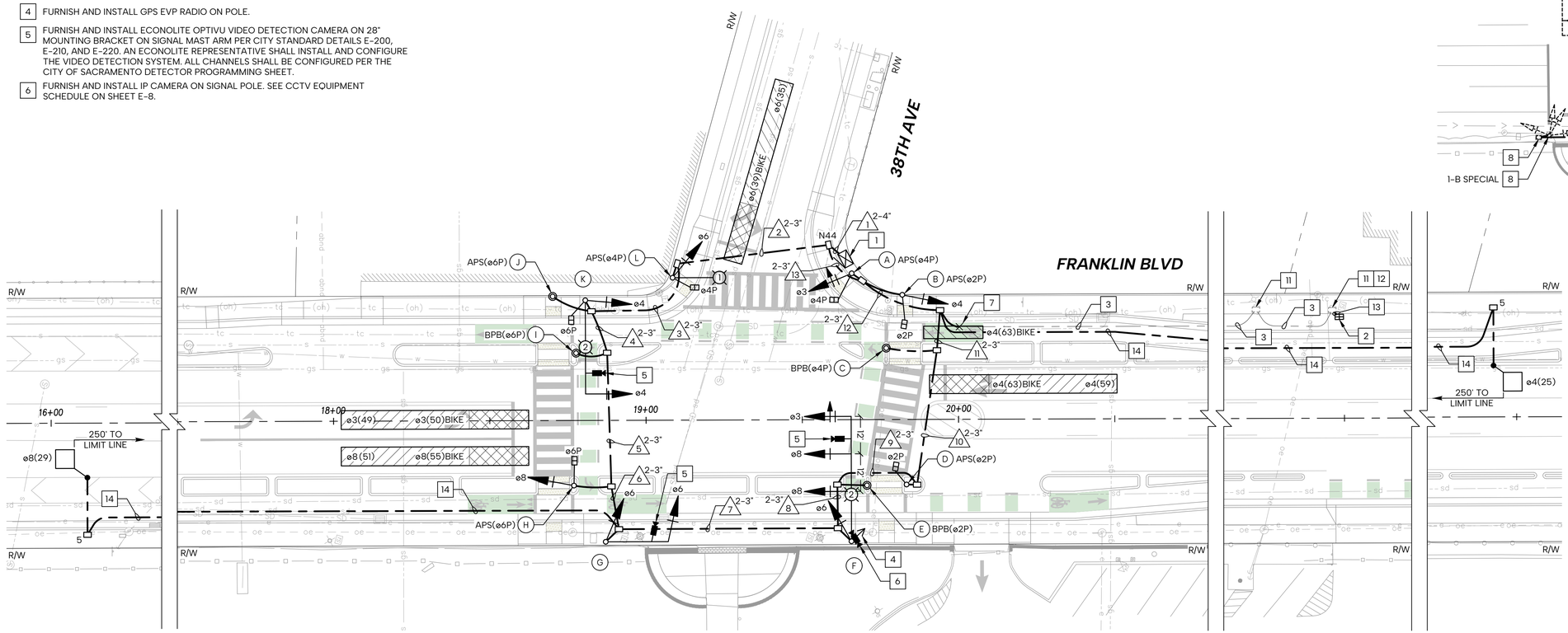
GENERAL NOTES (THIS SHEET ONLY):

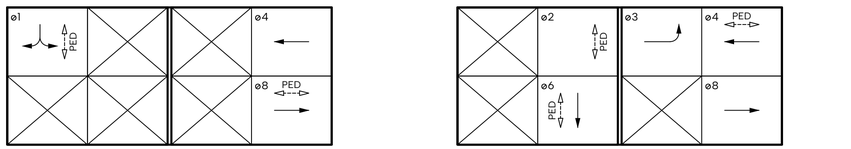
1. SEE SIGNING AND STRIPING PLANS FOR SIGN INFORMATION.
2. SEE STREET LIGHTING PLANS FOR STREET LIGHTING POLE, CONDUIT, AND CONDUCTOR INFORMATION.



REMOVAL DETAIL

SCALE: 1"=30'
EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED.





EXISTING PHASE DIAGRAM

PROPOSED PHASE DIAGRAM

DESIGN SPEED

FRANKLIN BLVD = 40 MPH
38TH AVE = 25 MPH

20 0 20 40
1"=20'
GRAPHIC SCALE

ACCEPTED BY: _____ DATE _____
JOHN MATTHEW LESLIE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

60% SUBMITTAL

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

CAD FILE: 3536.02-TS.dwg

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92' (NAVD88)
CITY OF SACRAMENTO BM 317-F4B
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
DESIGNED BY: B. SITU DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL PLAN
FRANKLIN BLVD & 38TH AVE

E-7
SHEET 80 OF 95

PLOT DATE: Jul 01, 2026-11:45:30am

POLE SCHEDULE

POLE	LOCATION		STANDARD	POLE HEIGHT	VEH. SIGNAL				PED. SIGNAL			APS		MAST ARM LENGTH		NOTES
	STATION	OFFSET			Ø	TYPE	SEC	MTG	Ø	TYPE	MTG	Ø	ARROW	TRA. SIG.	ST. LTNG.	
A	TBD	TBD	1-B	10'	3	1W3L	A	TV-1-T	4P	C/D	SP-1-T	4P	LEFT	-	-	
B	TBD	TBD	1-B	10'	4	1W3L	12"	TV-1-T	2P	C/D	SP-1-T	2P	RIGHT	-	-	
C	TBD	TBD	TYPE 2	*	-	-	-	-	-	-	-	4P	LEFT	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
D	TBD	TBD	1-B	7'	-	-	-	-	2P	C/D	TP-1-T	2P	LEFT	-	-	
E	TBD	TBD	TYPE 2	*	-	-	-	-	-	-	-	2P	LEFT	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
F	TBD	TBD	26-4-100	30'	3	1W3L	A	MAT	-	-	-	-	-	40'	15'	INSTALL NEW VIDEO DETECTION CAMERA ON SIGNAL MAST ARM. INSTALL NEW GPS EVP ON SIGNAL POLE. INSTALL NEW CCTV CAMERA ON SIGNAL POLE.
					8	1W3L	12"	MAS								
					8	1W3L	12"	MAS								
					6	1W3L	12"	SV-1-T								
G	TBD	TBD	16-3-100	18'-6"	6	1W3L	12"	MAT	-	-	-	-	-	20'	-	INSTALL NEW VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
					6	1W3L	12"	SV-1-T								
H	TBD	TBD	1-B	10'	8	1W3L	12"	TV-1-T	6P	C/D	SP-1-T	6P	LEFT	-	-	
I	TBD	TBD	TYPE 2	*	-	-	-	-	-	-	-	6P	LEFT	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
J	TBD	TBD	TYPE 2	*	-	-	-	-				6P	LEFT	-	-	INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
K	TBD	TBD	19-3-100	30'	4	1W3L	12"	MAT	6P	C/D	SP-1-T	-	-	30'	15'	INSTALL NEW VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
					4	1W3L	12"	SV-1-T								
L	TBD	TBD	15-TS	30"	6	1W3L	12"	SV-1-T	4P	C/D	SP-1-T	4P	RIGHT	-	15'	

NOTE: REFER TO **2025** CALTRANS STANDARD PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.
'A' INDICATES ALL 12" ARROW HEAD SECTION.
'C/D' INDICATES LED PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER.
'*' INDICATES POST TRIMMED 3" ABOVE APS UNIT WITH BUTTON 42" ABOVE LANDING AREA.
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER POLE SCHEDULE.
POTHOLING IS REQUIRED TO BE PERFORMED BY THE CONTRACTOR PRIOR TO REQUESTING ELECTRICAL MATERIAL SUBMITTALS TO BE REVIEWED BY THE CITY. FOR UTILITY CONFLICTS DURING THE CONSTRUCTION PHASE, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE CONSULTANT RESPONSIBLE FOR THE PLANSET TO RESOLVE THE CONFLICT.
APS SHALL BE POLARA 2 WIRE IDS29UBI-Y WITH IDETECT, YELLOW BUTTON COVER, 9"X12" R10-3B(CA) SIGN, AND BRAILLE ON FACEPLATE. CUSTOM MESSAGES WILL INCLUDE "WAIT TO CROSS [STREET NAME]" AND "WALK SIGN IS ON TO CROSS [STREET NAME]".
BIKE PUSH BUTTONS (BPBs) SHALL BE POLARA BULLDOG.
ALL LUMINAIRE TYPES SHALL BE EXCELLENCE OPTO INC. ESU-FA013M03240M-130.
ALL NEW SIGNAL HEADS SHALL HAVE 2" RETROREFLECTIVE YELLOW BORDERS.

CONDUCTOR SCHEDULE

CONDUIT RUN	1	2	3	4	5	6	7	8	9	10	11	12	13
CONDUIT SIZE	2-4"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C
CONDUCTORS	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH
VEH. SIG. ø3													
VEH. SIG. ø4													
VEH. SIG. ø6													
VEH. SIG. ø8													
PED. SIG. ø2P													
PED. SIG. ø4P													
PED. SIG. ø6P													
APS ø2P													
APS ø4P													
APS ø6P													
BPB ø2P													
BPB ø4P													
BPB ø6P													
SPARES													
SIG. NEUTRAL													
CONTROLLER POWER													
LIGHTING CIRCUIT 1													
LIGHTING CIRCUIT 2													
LIGHTING COMMON													
GROUND +													
IP CAMERA CAT6E													
VID DET CAMERA CAT5E													
GPS EVP													
TOTAL CONDUCTORS	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
PERCENT FILL													

PRELIMINARY
WILL POPULATE
NEXT SUBMITTAL

ALL CONDUCTORS AND CONDUITS SHALL BE NEW UNLESS OTHERWISE NOTED.
'+' PROVIDE 1#10 THW GROUND IN EACH CONDUIT.
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER CONDUCTOR SCHEDULE.
CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS IN EXISTING CONDUITS.

MODIFIED LUMINAIRE SCHEDULE

EXISTING TRAFFIC SIGNAL METERED SERVICE PEDESTAL #1066 (120/240 V) IS LOCATED ON THE WEST SIDE OF FRANKLIN BOULEVARD 200' ± NORTH OF 38TH AVENUE.

CIRCUIT NO.	EX. 200W HPS TO BE REPLACED AND TRANSFERRED TO NEW SERVICE 'B'	EX. 110W LED TO BE REMOVED	EX. 110W LED TO BE TRANSFERRED TO NEW SERVICE 'B'	NEW 134W LED	CIRCUIT TOTAL
1	1	2		1	1
2		2	1	2	2
TOTAL	1	4	1	3	3

ALL INTERSECTION LUMINAIRE TYPES SHALL BE EXCELLENCE OPTO INC. ESU-FA013M03240M-130.

CCTV EQUIPMENT

QTY.	DESCRIPTION	PART #	MANUFACTURER	NOTE
1	AXIS PANORAMIC CAMERA	P3747-PLVE	AXIS	INSTALL AND TEST
1	AXIS HIGH POWER PoE MID-SPAN POWER INJECTOR	02172-004	AXIS	INSTALL
1	AXIS POLE MOUNT	AXIS T91B67	AXIS	INSTALL
1	AXIS PENDANT KIT	TP3108-E	AXIS	INSTALL
SEE PLAN	BELDEN OUTDOOR RATED CAT6 CABLE	7927A	BELDEN	INSTALL
1	AXIS RJ45 PUSHPULL CONNECTOR	39680	AXIS	INSTALL AND TEST

CONTRACTOR TO PROVIDE ALL EQUIPMENT OR APPROVED EQUAL. APPROVAL SHALL BE BY SIGNAL OPERATIONS STAFF.

COMMUNICATION EQUIPMENT

QTY.	DESCRIPTION	PART #	MANUFACTURER	NOTE
1	CISCO NETWORK SWITCH	IE 3100-8TC2-E	CISCO	INSTALL ON DIN RAIL
2	CISCO SFP TRANSCEIVER	GLC-LX-SM-RGD	CISCO	PROVIDE TO TOC
1	CISCO POWER SUPPLY	PWR-IE50W-AC-IEC	CISCO	INSTALL ON DIN RAIL, CONNECT TO SWITCH
1	SURGE SUPPRESSOR	ISOBAR12ULTRA	TRIPP-LITE	INSTALL TO CABINET RAILS
1	PATCH PANEL	SPH-01P / SPH-CS12-A9-P00RE	CORNING	W/ 12-STRAND ADAPTER LC PANEL +SMFO PIGTAIL
4	1-METER CAT5E ETHERNET PATCH CABLE			PROVIDE TO TOC
4	2-METER FIBER PATCH CORD LC-LC	0404025131002M	CORNING	PROVIDE TO TOC

CONTRACTOR TO PROVIDE ALL EQUIPMENT NECESSARY TO PROVIDE COMMUNICATION SIGNAL TO THE CONTROL CABINETS. APPROVAL SHALL BE BY SIGNAL OPERATION STAFF. CONTRACTOR SHALL CONTACT CITY OF SACRAMENTO TRAFFIC OPERATIONS CENTER AT 916-808-5067 FOR MORE INFORMATION.

THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST (QPL) FOR ELECTRICAL EQUIPMENT IS LOCATED AT THE FOLLOWING LINK, UNDER THE TRAFFIC SIGNALS AND STREETLIGHTING HEADING.
WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS

60% SUBMITTAL

ACCEPTED BY: _____ DATE _____
JOHN MATSON, P.E. #E-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

CAD FILE: 3536.02-TS.dwg

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
DESIGNED BY: B. SITU DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL PLAN
FRANKLIN BLVD & 38TH AVE

E-8
SHEET 81 OF 95

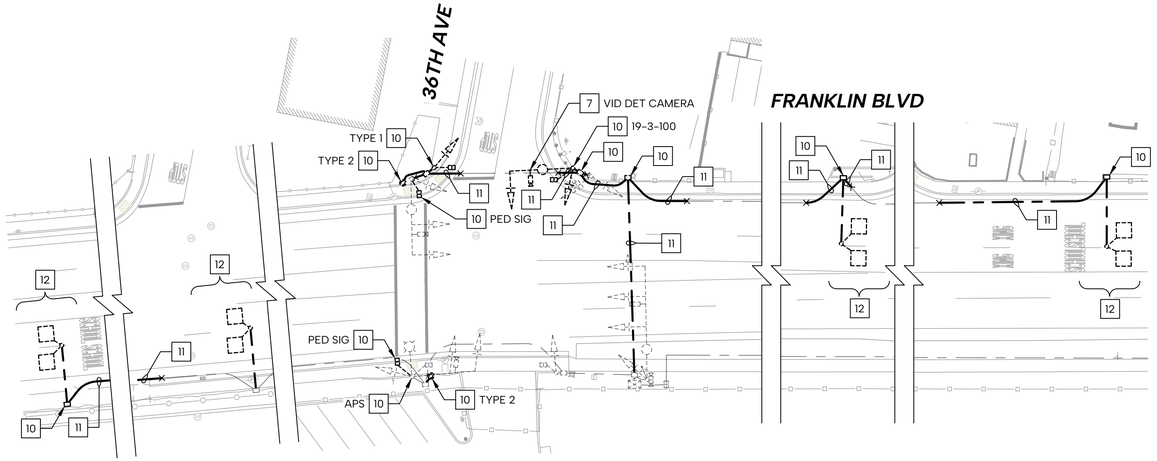
PLOT DATE: Jul 01, 2026-11:45:41am

PROJECT NOTES (THIS SHEET ONLY):

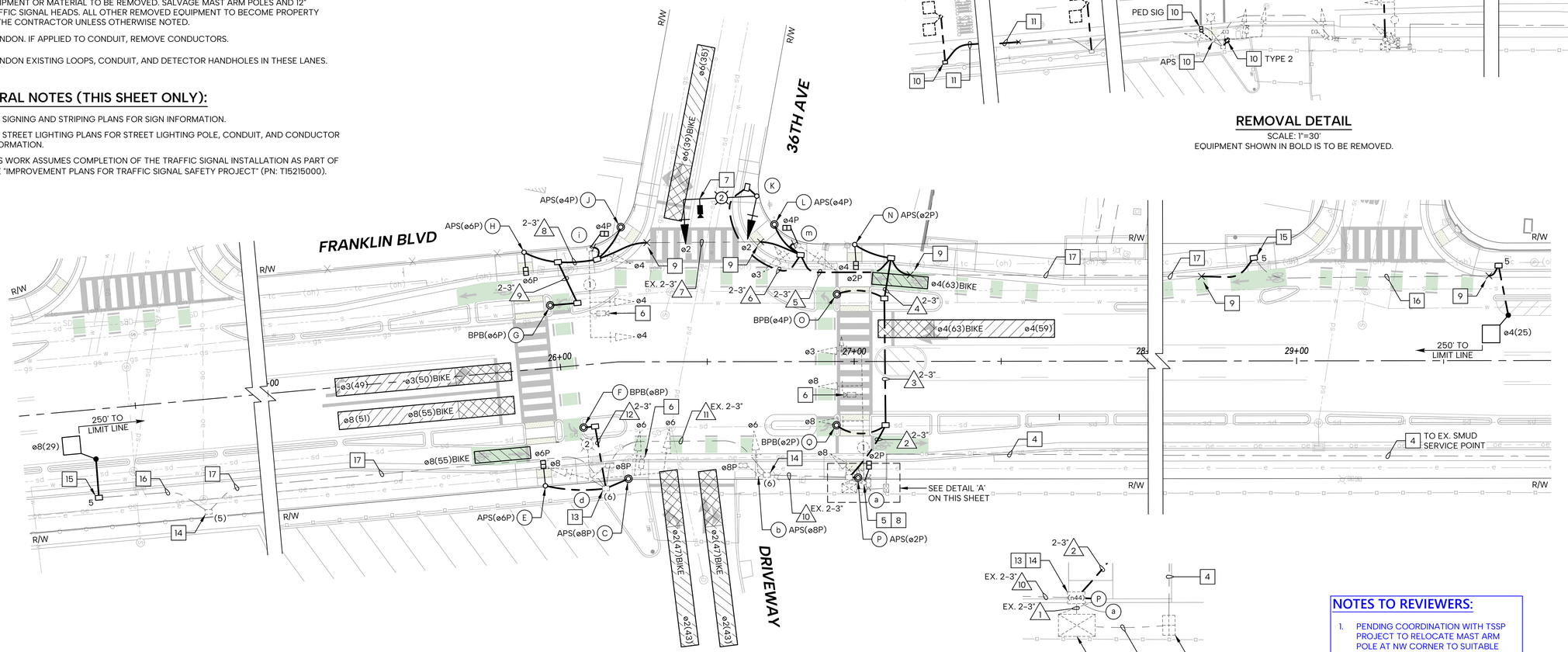
1. EXISTING MODEL TYPE R44 TS2 TYPE 1 CABINET WITH NEMA TS2 TYPE 2 ATCeX CONTROLLER ASSEMBLY TO REMAIN.
2. EXISTING (120/240 V) TYPE III-AF METERED SERVICE PEDESTAL #2859 LOCATED ON THE EAST SIDE OF FRANKLIN BLVD 70' ± NORTH OF THE INTERSECTION TO REMAIN.
3. EXISTING 2"C, 2#6 (CONTROLLER PWR), 1#10 G.
4. EXISTING 3"C, 3#1 (SERVICE), 1#6 G.
5. EXISTING GPS EVP RADIO ON POLE TO REMAIN.
6. EXISTING ECONOLITE AUTOSCOPE VISION VIDEO DETECTION CAMERA ON 28" MOUNTING BRACKET ON SIGNAL MAST ARM TO REMAIN. RE-PROGRAM DETECTION ZONES AS SHOWN ON PLAN.
7. RELOCATE EXISTING ECONOLITE AUTOSCOPE VISION VIDEO DETECTION CAMERA AND 28" MOUNTING BRACKET TO NEW SIGNAL MAST ARM POLE.
8. EXISTING IP CAMERA ON SIGNAL POLE TO REMAIN.
9. CONNECT NEW AND EXISTING CONDUIT.
10. EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE MAST ARM POLES AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
11. ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
12. ABANDON EXISTING LOOPS, CONDUIT, AND DETECTOR HANDHOLES IN THESE LANES.
13. INSTALL CONDUIT INTO EXISTING PULL BOX.
14. ADJUST PULL BOX TO GRADE.
15. INSTALL PULL BOX IN EXISTING CONDUIT RUN.
16. EXISTING 2"C. REMOVE EXISTING 2 DLC. PLACE 1 DLC
17. EXISTING 2"C. REMOVE EXISTING 4 DLC. PLACE 1 DLC

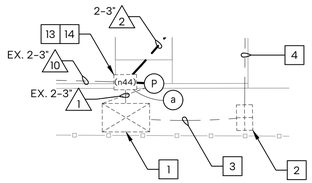
GENERAL NOTES (THIS SHEET ONLY):

1. SEE SIGNING AND STRIPING PLANS FOR SIGN INFORMATION.
2. SEE STREET LIGHTING PLANS FOR STREET LIGHTING POLE, CONDUIT, AND CONDUCTOR INFORMATION.
3. THIS WORK ASSUMES COMPLETION OF THE TRAFFIC SIGNAL INSTALLATION AS PART OF THE "IMPROVEMENT PLANS FOR TRAFFIC SIGNAL SAFETY PROJECT" (PN: T15215000).



REMOVAL DETAIL
SCALE: 1"=30'
EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED.

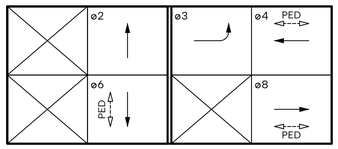




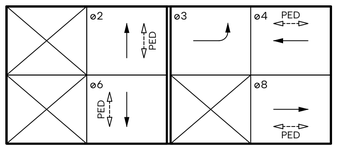
DETAIL 'A'
NO SCALE

NOTES TO REVIEWERS:

1. PENDING COORDINATION WITH TSSP PROJECT TO RELOCATE MAST ARM POLE AT NW CORNER TO SUITABLE LOCATION THAT CAN BE MAINTAINED WITH THIS PROJECT. CURRENT LOCATION IS IN PROPOSED CURB RAMP.



EXISTING PHASE DIAGRAM



PROPOSED PHASE DIAGRAM

DESIGN SPEED
FRANKLIN BLVD = 40 MPH
36TH AVE = 25 MPH

1"=20' GRAPHIC SCALE (20 0 20 40)

ACCEPTED BY: _____ DATE _____
JOHN MATTHEW LESLIE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

60% SUBMITTAL

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CAD FILE: 3536.02-TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

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HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
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IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL PLAN
FRANKLIN BLVD & 36TH AVE

E-9
SHEET 82 OF 95

PLOT DATE: Jul 01, 2026-11:45:42am

POLE SCHEDULE

POLE	LOCATION		STANDARD	POLE HEIGHT	VEH. SIGNAL				PED. SIGNAL			APS		MAST ARM LENGTH		NOTES
	STATION	OFFSET			Ø	TYPE	SEC	MTG	Ø	TYPE	MTG	Ø	ARROW	TRA. SIG.	ST. LTNG.	
(a)	-	-	(26-4-100)	(30')	(3)	(1W3L)	(A)	(MAT)	**2P**	**C/D**	**SP-1-T**	-	-	(45')	(12')	EXISTING VIDEO DETECTION CAMERA ON SIGNAL MAST ARM TO REMAIN. EXISTING GPS EVP ON SIGNAL POLE TO REMAIN. EXISTING CCTV CAMERA ON SIGNAL POLE TO REMAIN.
					(8)	(1W3L)	(12")	(MAS)								
					(8)	(1W3L)	(12")	(MAS)								
					(8)	(1W3L)	(12")	(SV-1-T)								
(b)	-	-	(1-B)	(10')	(6)	(1W3L)	(12")	(TV-1-T)	(8P)	(C/D)	(SP-1-T)	(8P)	(RIGHT)	-	-	
(C)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**8P**	**LEFT**	-	-	INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(d)	-	-	(19-4-100)	(21.5')	(6)	(1W3L)	(12")	(MAT)	(8P)	(C/D)	**SP-1-T**	-	-	(25')	(12')	EXISTING VIDEO DETECTION CAMERA ON SIGNAL MAST ARM TO REMAIN REMOVE APS AND PLUG HOLE WITH APPROVED CALTRANS METHOD.
					(6)	(1W3L)	(12")	(MAS)								
					(8)	(1W3L)	(12")	(SV-1-T)								
(E)	**TBD**	**TBD**	**1-B**	**7'**	-	-	-	-	**6P**	**C/D**	**TP-1-T**	**6P**	**RIGHT**	-	-	
(F)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**8P**	**RIGHT**	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(G)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**6P**	**LEFT**	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(H)	**TBD**	**TBD**	**1-B**	**7'**	-	-	-	-	**6P**	**C/D**	**TP-1-T**	**6P**	**LEFT**	-	-	
(i)	-	-	(19A-4-100)	(35')	(4)	(1W3L)	(12")	(MAT)	**4P**	**C/D**	**SP-1-T**	-	-	(30')	(12')	EXISTING VIDEO DETECTION CAMERA ON SIGNAL MAST ARM TO REMAIN.
					(4)	(1W3L)	(12")	(MAS)								
					(4)	(1W3L)	(12")	(SV-1-T)								
(J)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**4P**	**RIGHT**	-	-	INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(K)	**TBD**	**TBD**	**19-3-100**	**30'**	**2**	**1W3L**	**12"**	**MAT**	-	-	-	-	-	**25'**	**12'**	INSTALL RELOCATED VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
					2	**1W3L**	**12"**	**SV-1-T**								
(L)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**4P**	**LEFT**	-	-	INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(m)	-	-	(1-B)	(10')	(3)	(1W3L)	(A)	(TV-2-T)	**4P**	**C/D**	**SP-1-T**	-	-	-	-	
					(4)	(1W3L)	(12")									
(N)	**TBD**	**TBD**	**1-B**	**7'**	-	-	-	-	**2P**	**C/D**	**TP-1-T**	**2P**	**RIGHT**	-	-	
(O)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**4P**	**LEFT**	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(P)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**2P**	**LEFT**	-	-	INSTALL POST ON CURB PER DETAIL ON SHEET E-1.
(O)	**TBD**	**TBD**	**TYPE 2**	*	-	-	-	-	-	-	-	**2P**	**LEFT**	-	-	BIKE PUSH BUTTON. INSTALL POST ON CURB PER DETAIL ON SHEET E-1.

NOTE: REFER TO **2025** CALTRANS STANDARD PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.
'A' INDICATES ALL 12" ARROW HEAD SECTION.
'C/D' INDICATES LED PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER.
'*' INDICATES POST TRIMMED 3" ABOVE APS UNIT WITH BUTTON 42" ABOVE LANDING AREA.
EXISTING EQUIPMENT TO REMAIN IS SHOWN IN (parentheses.)
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER POLE SCHEDULE.
POTHOLING IS REQUIRED TO BE PERFORMED BY THE CONTRACTOR PRIOR TO REQUESTING ELECTRICAL MATERIAL SUBMITTALS TO BE REVIEWED BY THE CITY. FOR UTILITY CONFLICTS DURING THE CONSTRUCTION PHASE, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE CONSULTANT RESPONSIBLE FOR THE PLANSET TO RESOLVE THE CONFLICT.
APS SHALL BE POLARA 2 WIRE IDS29UB1-Y WITH IDETECT, YELLOW BUTTON COVER, 9"X12" R10-3B(CA) SIGN, AND BRAILLE ON FACEPLATE. CUSTOM MESSAGES WILL INCLUDE "WAIT TO CROSS [STREET NAME]" AND "WALK SIGN IS ON TO CROSS [STREET NAME]".
BIKE PUSH BUTTONS (BPBs) SHALL BE POLARA BULLDOG.
ALL LUMINAIRE TYPES SHALL BE EXCELLENCE OPTO INC. ESU-FA013M03240M-130.
ALL NEW SIGNAL HEADS SHALL HAVE 2" RETROREFLECTIVE YELLOW BORDERS.

CONDUCTOR SCHEDULE

CONDUIT RUN	1	2	3	4	5	6	7	8	9	10	11	12
CONDUIT SIZE	EX. 2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	2-3"C	EX. 2-3"C	2-3"C	2-3"C	EX. 2-3"C	EX. 2-3"C	2-3"C
CONDUCTORS	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH	6 10 14 OTH
VEH. SIG. ø2												
VEH. SIG. ø3												
VEH. SIG. ø4												
VEH. SIG. ø6												
VEH. SIG. ø8												
PED. SIG. ø2P												
PED. SIG. ø4P												
PED. SIG. ø6P												
PED. SIG. ø8P												
APS ø2P												
APS ø4P												
APS ø6P												
APS ø8P												
BPB ø2P												
BPB ø4P												
BPB ø6P												
BPB ø8P												
SPARES												
SIG. NEUTRAL												
CONTROLLER POWER												
LIGHTING CIRCUIT 1												
LIGHTING CIRCUIT 2												
LIGHTING COMMON												
GROUND +												
IP CAMERA CAT6E												
VID DET CAMERA CAT5E												
GPS EVP												
TOTAL CONDUCTORS	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
PERCENT FILL												

PRELIMINARY
WILL POPULATE
NEXT SUBMITTAL

BOLD TEXT INDICATES CONDUCTORS ARE NEW OR QUANTITY IS MODIFIED.
LIGHT TEXT INDICATES EX. CONDUCTORS TO REMAIN.
'+' PROVIDE 1#10 THW GROUND IN EACH CONDUIT.
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER CONDUCTOR SCHEDULE.
CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS NOT SHOWN TO REMAIN.

MODIFIED LUMINAIRE SCHEDULE

EXISTING TRAFFIC SIGNAL METERED SERVICE PEDESTAL #2859(120/240 V) IS LOCATED ON THE EAST SIDE OF FRANKLIN BOULEVARD 70' ± NORTH OF 36TH AVENUE.

CIRCUIT NO.	EX. 110W LED TO REMAIN	EX. 110W LED TO BE REMOVED	NEW 134W LED	CIRCUIT TOTAL
1	2			2
2	1	1	1	2
TOTAL	3	1	1	4

ALL INTERSECTION LUMINAIRE TYPES SHALL BE EXCELLENCE OPTO INC.
ESU-FA013M03240M-130.

THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST (QPL) FOR ELECTRICAL EQUIPMENT IS LOCATED AT THE FOLLOWING LINK, UNDER THE TRAFFIC SIGNALS AND STREETLIGHTING HEADING.
WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS

60% SUBMITTAL

ACCEPTED BY: _____ DATE _____
JOHN MATOSKA, P.E. #E-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER
PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92' (NAVD88)
CITY OF SACRAMENTO BM 317-F4B
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK
SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
DESIGNED BY: B. SITU DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL PLAN
FRANKLIN BLVD & 36TH AVE

E-10
SHEET 83 OF 95

CAD FILE: 3536.02-TS.dwg

PLOT DATE: Jul 01, 2026-11:45:45am

PROJECT NOTES (THIS SHEET ONLY):

1. INSTALL (120/XXX V) TYPE III-AF METERED SERVICE PEDESTAL #TBD PER CITY OF SACRAMENTO DRAWINGS E-10 AND E-20 WITH THE FOLLOWING CIRCUIT BREAKERS:
   - 100A 2P MAIN
   - 15A 1P LIGHTING CONTROL
   - 15A 1P RRFB
   - 15A 1P LIGHTING 1
   - 15A 1P LIGHTING 2
   - 15A 1P SPARE
2. FURNISH AND INSTALL ONE-DIRECTIONAL RRFB ASSEMBLY WITH CARMANAH RRFB MAST ARM KIT PER DETAIL ON THIS SHEET.
3. PLACE 3"C, 3 #1 (120/XXX V SERVICE) FROM THE NEW SERVICE CABINET TO SMUD SERVICE POINT (TBD). SMUD FORCES SHALL PERFORM FINAL CONNECTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK AND SCHEDULING WITH SMUD.
4. PLACE 3"C, 3#6 (Ltg Ckt 1 & Ltg Ckt 2), 2#6 (RRFB), 1#10 G.
5. PLACE 3"C, 2#6 (Ltg Ckt 1), 2#6 (RRFB), 1#10 G.

GENERAL NOTES (THIS SHEET ONLY):

1. SEE SIGNING AND STRIPING PLANS FOR SIGN INFORMATION.
2. SEE STREET LIGHTING PLANS FOR STREET LIGHTING POLE, CONDUIT, AND CONDUCTOR INFORMATION.

NEW LUMINAIRE SCHEDULE

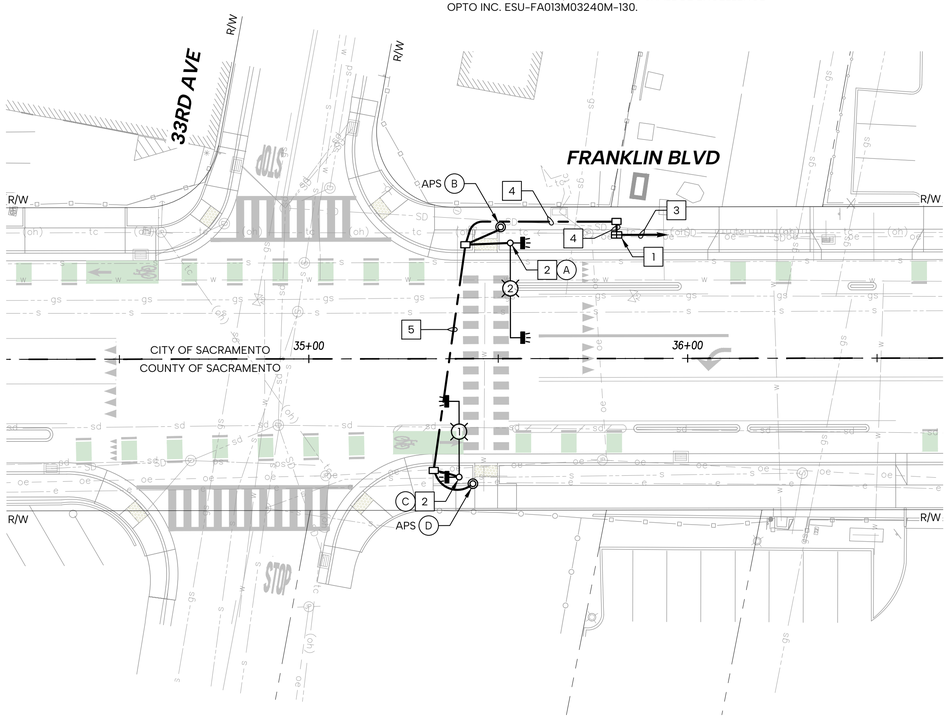
NEW METERED SERVICE PEDESTAL #TBD (120/XXX V) IS LOCATED ON THE WEST SIDE OF FRANKLIN BOULEVARD 80' ± NORTH OF 33RD AVENUE.

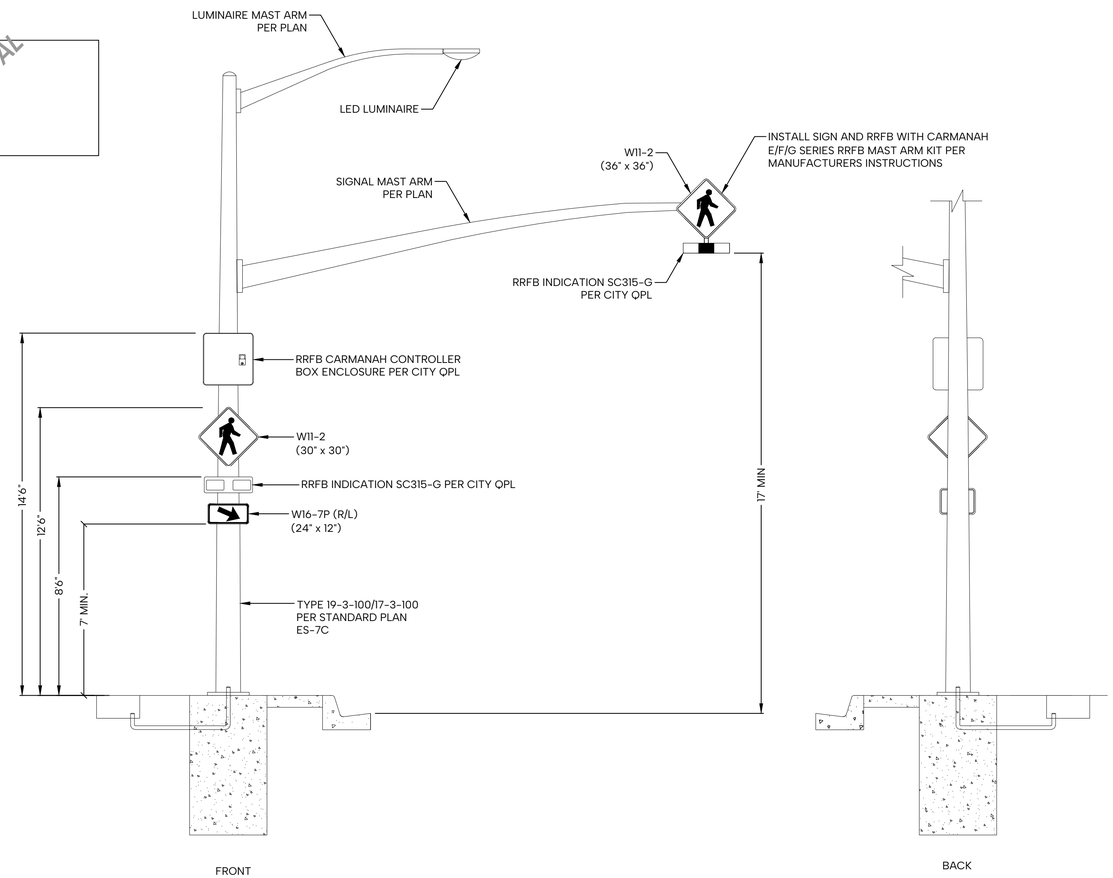
CIRCUIT NO	NEW 134W LED	CIRCUIT TOTAL
1	1	1
2	1	1

ALL INTERSECTION LUMINAIRE TYPES SHALL BE EXCELLENCE OPTO INC. ESU-FA013M03240M-130.

SMUD SN: _____
SMUD DESIGNER: _____
TEL: _____
EMAIL: _____

PRELIMINARY WILL POPULATE NEXT SUBMITTAL





RRFB SYSTEM DETAIL
NO SCALE

POLE SCHEDULE

POLE	LOCATION		STANDARD	POLE HEIGHT	APS	MAST ARM LENGTH		NOTES
	STATION	OFFSET			ARROW	TRA. SIG.	ST. LTNG.	
(A)	TBD	TBD	19-3-100	30'	-	25'	12'	INSTALL ONE-DIRECTIONAL RRFB ON MAST ARM AND ON POLE AND RRFB CARMANAH CONTROL BOX ON POLE PER DETAIL ON THIS SHEET. INSTALL SIGN AND RRFB WITH CARMANAH E/F/G SERIES RRFB MAST ARM KIT PER MANUFACTURERS INSTRUCTIONS.
(B)	TBD	TBD	TYPE 2	*	RIGHT	-	-	
(C)	TBD	TBD	17-3-100	30'	-	20'	12'	INSTALL ONE-DIRECTIONAL RRFB ON MAST ARM AND ON POLE PER DETAIL ON THIS SHEET. INSTALL SIGN AND RRFB WITH CARMANAH E/F/G SERIES RRFB MAST ARM KIT PER MANUFACTURERS INSTRUCTIONS.
(D)	TBD	TBD	TYPE 2	*	RIGHT	-	-	INSTALL POST ON CURB PER DETAIL ON SHEET E-1.

NOTE: REFER TO **2025** CALTRANS STANDARD PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.
"*" INDICATES POST TRIMMED 3" ABOVE APS UNIT WITH BUTTON 42" ABOVE LANDING AREA.
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER POLE SCHEDULE.
POTHOLING IS REQUIRED TO BE PERFORMED BY THE CONTRACTOR PRIOR TO REQUESTING ELECTRICAL MATERIAL SUBMITTALS TO BE REVIEWED BY THE CITY. FOR UTILITY CONFLICTS DURING THE CONSTRUCTION PHASE, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE CONSULTANT RESPONSIBLE FOR THE PLANSET TO RESOLVE THE CONFLICT.
APS SHALL BE POLARA 2 WIRE IDS29UB1-Y WITH IDETECT, YELLOW BUTTON COVER, 9"X12" R10-3B(CA) SIGN, AND BRAILLE ON FACEPLATE. CUSTOM MESSAGES WILL INCLUDE "WAIT TO CROSS [STREET NAME]" AND "WALK SIGN IS ON TO CROSS [STREET NAME]".
ALL LUMINAIRE TYPES SHALL BE EXCELLENCE OPTO INC. ESU-FA013M03240M-130.

NOTES TO REVIEWERS:

1. THE CITY WILL MAINTAIN THE RRFB ONCE INSTALLED. CITY TO CONFIRM AGREEMENT WITH COUNTY.

THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST (QPL) FOR ELECTRICAL EQUIPMENT IS LOCATED AT THE FOLLOWING LINK, UNDER THE TRAFFIC SIGNALS AND STREETLIGHTING HEADING. WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS

60% SUBMITTAL

20 0 20 40
1"=20' GRAPHIC SCALE

ACCEPTED BY: _____ DATE _____
JOHN MATSON, PLS E-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
DESIGNED BY: B. SITU DATE 07/01/26
CHECKED BY: _____ R.C.E. _____ DATE _____

Fehr & Peers
555 Capitol Mall Suite 510, Sacramento, CA 95814 (916) 329-7332
PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL PLAN
FRANKLIN BLVD & 33RD STREET

E-11
SHEET 84 OF 95

CAD FILE: 3536.02-TS.dwg

PLOT DATE: Jul 01, 2026–11:45:50am

PRELIMINARY
WILL POPULATE
NEXT SUBMITTAL

60%
SUBMITTAL

ACCEPTED
BY: _____ DATE _____
JOHN MATTOX, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

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TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU
DATE 07/01/26

DESIGNED BY: B. SITU
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CHECKED BY: _____
R.C.E. _____ DATE _____

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Sacramento, CA 95814
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PRELIMINARY
UNDER THE SUPERVISION OF:
KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL INTERCONNECT
FIBER OPTIC PLAN

E-12
SHEET
85
OF
95

CAD FILE: 3536.02-FO.dwg

PLOT DATE: Jul 01, 2026–11:45:50am

PRELIMINARY
WILL POPULATE
NEXT SUBMITTAL

60%
SUBMITTAL

ACCEPTED
BY: _____ DATE _____
JOHN MATTOX, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

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1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU
DATE 07/01/26

DESIGNED BY: B. SITU
DATE 07/01/26

CHECKED BY: _____
R.C.E. _____ DATE _____

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(916) 329-7332

PRELIMINARY
UNDER THE SUPERVISION OF:
KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL INTERCONNECT
NETWORK DIAGRAM

E-13
SHEET
86
OF
95

CAD FILE: 3536.02-FO.dwg

PLOT DATE: Jul 01, 2026-11:45:56am

PRELIMINARY
WILL POPULATE
NEXT SUBMITTAL

60%
SUBMITTAL

ACCEPTED
BY: _____ DATE _____
JOHN MATTOX, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92'
CITY OF SACRAMENTO BM 317-F4B (NAVD88)
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU
DATE 07/01/26

DESIGNED BY: B. SITU
DATE 07/01/26

CHECKED BY: _____
R.C.E. _____ DATE _____

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PRELIMINARY
UNDER THE SUPERVISION OF:
KRISTIN CALIA
R.C.E. 62461
EXP. 9/30/27

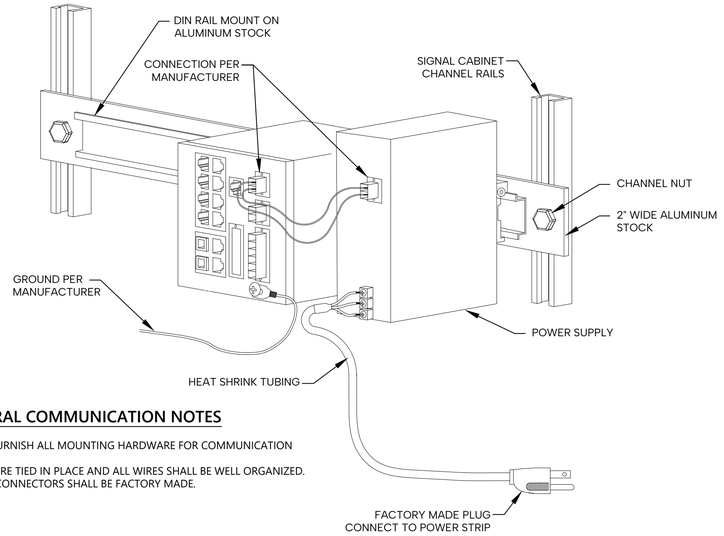
IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL DETAILS
APS VOICE COMMAND DETAIL

E-14
SHEET
87
OF
95

CAD FILE: 3536.02-TS-Details.dwg

PLOT DATE: Jul 01, 2026-11:45:56am



GENERAL COMMUNICATION NOTES

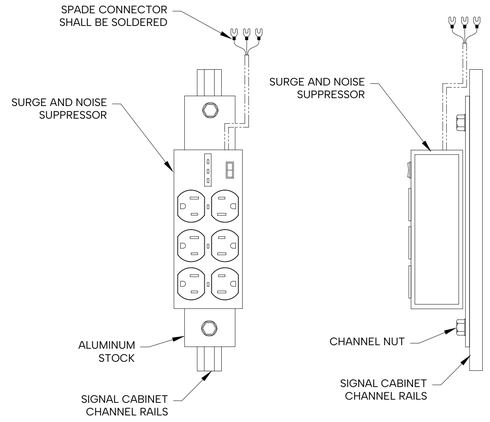
1. CONTRACTOR SHALL FURNISH ALL MOUNTING HARDWARE FOR COMMUNICATION EQUIPMENT.
2. ALL WIRES SHALL BE WIRE TIED IN PLACE AND ALL WIRES SHALL BE WELL ORGANIZED.
3. WHEN EVER POSSIBLE CONNECTORS SHALL BE FACTORY MADE.

TYPICAL NETWORK SWITCH MOUNTING IN R CABINET

NO SCALE

SURGE SUPPRESSOR GENERAL NOTES

1. SURGE SUPPRESSOR SHALL BE TRIPP-LITE ISOBAR PREMIUM SURGE AND NOISE SUPPRESSOR, MODEL #ISOBAR6ULTRA, OR APPROVED EQUAL FOR TYPE R CABINETS.
2. SURGE SUPPRESSOR SHALL BE WIRED TO LOAD SIDE OF 15 AMP MAIN BREAKER
   SURGE SUPPRESSOR SHALL BE MOUNTED ON ALUMINUM STOCK AND ATTACHED TO SIGNAL CABINET CHANNEL RAILS.

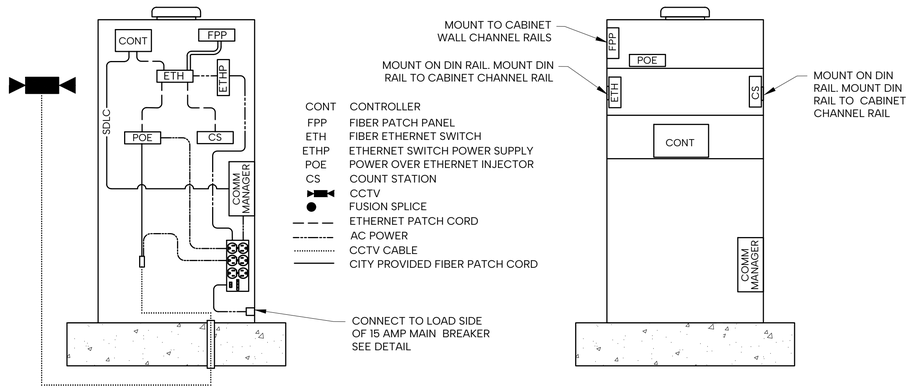


SURGE SUPPRESSOR IN R CABINET

NO SCALE

GENERAL COMMUNICATION NOTES:

1. CONTRACTOR IS TO PROVIDE ALL NECESSARY EQUIPMENT IN TRAFFIC CABINET TO PROVIDE COMMUNICATION TO THE TRAFFIC OPERATION CENTER.
2. CONTRACTOR SHALL FURNISH ALL MOUNTING HARDWARE FOR COMMUNICATION EQUIPMENT.
3. ALL WIRES SHALL BE WIRE TIED IN PLACE AND ALL WIRES SHALL BE WELL ORGANIZED.
4. WHEN EVER POSSIBLE CONNECTORS SHALL BE FACTORY MADE.
5. NUMBER OF DEVICE VARIES BY INTERSECTION.



TYPICAL IN CABINET COMMUNICATION ROUTING FOR R CAB WITH FIBER

NO SCALE [POSITION SHOWN FOR CLARITY]

TYPICAL IN CABINET COMMUNICATION MOUNTING FOR R CAB WITH FIBER

60% SUBMITTAL

ACCEPTED BY: _____ DATE _____
JOHN MATOSKA, PE, PE-16605
CITY OF SACRAMENTO
SENIOR ELECTRICAL ENGINEER

PRELIMINARY

Underground Service Alert
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TWO WORKING DAYS BEFORE YOU DIG

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 25.92' (NAVD88)
CITY OF SACRAMENTO BM 317-F4B
HILTI NAIL LIGHT BASE SW CORNER OF FRANKLIN BOULEVARD AND 29TH AVENUE.

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: B. SITU DATE 07/01/26
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PRELIMINARY
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. 62461 EXP. 9/30/27

IMPROVEMENT PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

TRAFFIC SIGNAL DETAILS
TYPE R CABINET LAYOUT

E-15
SHEET 88 OF 95

CAD FILE: 3536.02-TS-Details.dwg

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CAD FILE: P:\Engineering Services\TechElec\Drawings\1Standard Details for Traffic Signals and StreetLights\Electrical Details Signed by John Matoba\Special Provisions No.1.dwg

STREETLIGHT SPECIAL PROVISIONS NO. 1

1. SPECIFICATIONS

The work to be performed under this contract shall be done in accordance with the Special Provisions contained herein. In these Special Provisions, reference is made to the most current edition of Standard Specifications of the City of Sacramento referred to herein as Standard Specifications and the most current edition of the State Specifications, State of California, both of which shall apply to the work. The General Conditions of the contract shall be governed by Sections 1 through 8 of the Standard Specifications. The Special Provisions shall govern first, followed by the Standard Specifications and State Specifications, State of California. For Specifications of a technical nature not covered by the City Standard Specifications or these Special Provisions, the most current edition of the Standard Specifications and Standard Plans of the State of California, Department of Transportation shall apply. All mention of, and reference to, the State Standard Specifications shall specifically mean the most current edition of the Standard Specifications of the State of California, Department of Transportation. All mention of, and reference to, the State Standard Plans shall specifically mean the most current edition of the Standard Plans of the State of California, Department of Transportation. In the State Standard Specifications and the State Standard Plans, all mention of the "State" shall be construed to mean the City of Sacramento and all mention of the Engineer shall mean the Director of Public Works or his assistant, who may have been assigned to the supervision of this project by the Director of Public Works.

2. SCOPE OF WORK

The work to be performed under these Special Provisions, in general, includes furnishing and installing all necessary equipment and material to construct or modify the street lighting systems as shown on the Plans.

3. SCHEDULING OF WORK

Shall be in accordance with the Standard Specifications, except that the contractor shall furnish written notices to the property owners involved informing them of the proposed work at least twenty–four (24) hours prior to commencing work on any sheet.

4. EXISTING UTILITIES

All known underground utilities within the construction area are shown on the Plans. Contractor is required to ascertain the exact location of all utilities prior to doing work that may damage such facilities or interfere with their services.

5. MODIFICATION OF EXISTING IMPROVEMENTS

When existing grades are change, all existing utilities shall be raised or lowered accordingly, including but not limited to, pull boxes, conduits, traffic signal standards, street lighting standards, traffic signal controllers, service pedestals, fire alarm pedestals, and all other utilities located in the effected area.

Contractor shall be responsible for the protection of the existing electrical facilities and shall repair any damages to the facilities that occur during construction. Repair shall be in accordance with the Standard Specifications and any damaged item shall be replaced in–kind at the expense of the contractor.

6. CONDUCTORS

Conductors shall be in accordance with the Standard Specifications, except for the following:

1. If the existing ground wire (green 1#10 THW) is used as a pullwire, a new ground wire shall be pulled with the new conductors or cables, unless otherwise specified.
2. Unless otherwise noted, insulation Types THHN and THWN are not approved for installation.
3. The electrolier leads from base to lamp socket shall be No. 12 THW solid wire with 45 mils insulation suitable for 600–volt service for historic decorative, post top and mast arm electroliers.
4. All conductors of AWG #10 or larger shall be identified by printed and embossed labels. #1, #6, #8, #10 conductors shall be printed and embossed.
   a) Both printed and embossed labels shall clearly identify the UL listing, insulation type, voltage rating, AWG number, and the City of Sacramento.
   b) The printed label and the embossed label shall be placed at approximately 90 degrees separation around the center of the conductors.
   c) Labels shall appear every one foot interval. Embossed labels shall be between 0.002" to 0.003" in depth and shall not damage the conductors. Label heights shall be no less than 3/32" for AWG #8 or larger, and shall be no less than 2/32" for AWG #10.

7. CONDUITS

JM Eagle and PW Eagle are not acceptable conduit materials.

Conduit to be installed underground shall be Schedule 40 polyvinyl chloride (PVC) or Schedule 40 polyethylene conduit as described herein unless otherwise indicated or specified. PVC conduit shall comply with the specifications with the City Standard Specifications. High–density polyethylene conduit shall comply with the following specifications:

Conduit shall be fabricated from polyethylene shall be in conformance with applicable ASTM and NEMA standards and Article 347 of the National Electrical Code. Non–black polyethylene conduit shall contain not less than 2500 parts per million (ppm) of a hindered amain ultraviolet light stabilizer. Ultraviolet stabilization additive for black polyethylene conduit shall consist of a carbon black loading of 2.5% 0.5% by weight. Conduit shall be manufactured from high–density polyethylene resin designated as Type III, Category 5, Class C, Grade P34 material in accordance with ASTM D1248. Duct seal shall be installed on all conduits. All new conduits starting/terminating in pull boxes shall have End Bells. Conduit installation shall be in accordance with Section 34–9, 34–10 of the Standard Specifications and as modified by these Special Provisions. "Jet–rodding" is not permitted.

7. CONDUITS (continued)

Conduits terminating in pull boxes, standards, pedestals and cabinets shall rise vertically and shall not slope in any direction. Conduits terminating in standards, pedestals, and cabinets shall terminate one and one–half inches (1½") above finished grade. Conduits shown on the Plans to be adjacent and parallel to each other shall be installed in the same trench or drill hole unless otherwise specified or directed by the Engineer. Under the sidewalk, conduit shall be laid to a depth of not less than eighteen inches (18") below the sidewalk grade.

Conduits shall be installed by trenching or directional drilling method.

All applicable requirements in these Special Provisions to locate, and to protect existing utilities, utility laterals, obstructions, and other facilities in the area shall be conformed to and no additional compensation will be allowed therefor. Contractor is responsible for any damage and the repair of any existing facilities damaged by his/her trenching or drilling operations. Contractor is responsible for any potholing necessary and cost for potholing shall also be included in price paid for applicable items of work and no additional compensation will be allowed therefor. All trenching or drilling work shall be contained within the City right–of–way. If utilities or other obstacles are encountered at the specified conduit depth, any additional drilling required to avoid the obstacle shall be made at the Contractor's expense and no additional compensation will be allowed therefor. Location of trenching and drill holes shall take into consideration minimal impact to the street pavement while still meeting the requirements of these Special Provisions.

Contractor shall replace roadway striping and markings with same material if damaged by directional drilling, bore pits, potholes, or trenching. Replacement striping and markings shall be thermoplastic or paint, per the City of Sacramento Standards.

Contractor shall use the following PVC pipe cement to join conduits and fittings: Premier Cement PVC All Temperature One Step Blue or Christy's Red Hot Blue Glue for Schedule 80 thru 4" diameter.

A. Trenching Method

Installation of conduit by trenching shall be in conformance with the Plans and these Special Provisions and all Addundums. See plan sheets for trench details. Trenches shall be backfilled or covered at the end of each work day. All conduit installed by trenching shall be anchored every 15 feet to the bottom of the trench, with an approved method, so as to prevent the conduit from floating when the concrete is backfilled into the trench.

A. Directional Drilling Method

Installation of conduit by directional drilling shall be in conformance with the Plans and these Special Provisions.

Conduits shall be installed such that the top of the conduit(s) are not less than eighteen inches (18") below the finished grade in sidewalk areas and not less than thirty inches (30") in all other areas except as otherwise specified or directed by the Engineer.

Prior to the start of directional drilling, the Contractor shall submit a plan which identifies location and size of proposed drill holes, describes process for identifying/locating existing utility services and other underground utilities or obstructions, identifies a proposed "drilling corridor" to avoid conflicts with existing utilities, services and other facilities. This plan shall be submitted to the Engineer a minimum of ten (10) working days prior to the start of work. The Contractor will not be allowed to directional drill until an approved plan is on file with the Engineer

Directional drilling shall be performed by the technique of creating and directing a bore hole along a predetermined path to a specified targeted location where indicated on the plans to install conduits. The technique shall involve the use of mechanical and hydraulic equipment to change the boring course and shall use instrumentation to monitor the location and orientation of the boring head assembly along the predetermined course. Drilling shall be accomplished with fluid–assisted mechanical cutting. Unless otherwise approved, boring fluids shall be a mixture of bentonite and water or polymers and additives. Bentonite sealants and water will be used to lubricate the drilling head. It is mandatory that minimum pressures and flow rates be used during drilling operations so as not to fracture the subgrade material around and/or above the bore. Uncontrolled jetting (where the primary purpose is to use fluid force to erode soil for creation of the final bore hold diameter) is prohibited. The drilling system shall utilize small–diameter fluid jets to fracture, and mechanical cutters to cut and excavate the soil as the head advances forward.

All drilling shall be located a minimum of three feet (3') from the center of all existing maintenance holes. Drilling that run parallel to any sanitary sewer or storm drainage lines shall maintain a minimum clearance of three feet (3') measured from the centerline of the sewer or drainage line to the adjacent side of the drill hole. Drilling that crosses any sewer or drainage line shall cross at 90 degrees to the line or at a minimum of 45 degrees if a 90 degree crossing is not possible.

8. INSPECTION

Inspection shall be in accordance with the Standard Specifications and these Specifications.

9. PULL BOXES

Shall be in accordance with the Standard Specifications, except for the following:

All new pull boxes shall be set in place prior to pouring any new sidewalk. Existing pull boxes damaged by the installation of new conduits shall be removed and replaced at the Contractor's expense as directed by the Engineer. All pull boxes shall be placed in sidewalk areas unless otherwise specified on the plans or directed by the Engineer, and shall not be placed in driveways, in vehicular traveled lanes, or in any part of a new sidewalk handicap ramp areas. Contractor shall cut, removed and replace the concrete to the nearest joint when installing new pull boxes. New pull boxes shall have a minimum of 6" of new concrete around all sides in the sidewalks. For pull boxes to be removed, holes or depressions resulting from the removed pull box shall be filled, compacted, brought to grade, and filled to match surrounding materials. A crushed rock foundation shall be installed prior to placing pull box. The crushed rock foundation shall have a minimum of 12" in depth and continue to extend a minimum of 6" beyond the outside edge of the pull box. Crushed rock foundation shall be compacted. Compact crush rock while maintaining integrity of conduit. Then, install pull box on top of crushed rock foundation. Adjust pull box to grade. Conduit and pull boxes shall not be damage nor cracked.

All No. 5 and No. 6 Pull Boxes shall have steel security lids with locking key bolt. Lid shall be 1/4" thick minimum galvanized steel. Lid shall be manufactured with slip resistant surface. Lid shall be non–traffic rated, unless otherwise specified. Lid shall be equipped with a lock mechanism which can be secured from the top of the lid. Lock shall be recessed in a 1 inch diameter circle. Lock shall be Secured Keyed Bryce Fastener, or approved equal. A steel welding plug shall be provided by the manufacturer to be inserted into the 1 inch diameter recessed lock. Lid shall be flush with top of the pull box when lid is completely secured and locked to the pull box. No. 5 pull boxes shall have a single cam locking system, or approved equal. No. 6 pull boxes shall have a double cam locking system, or approved equal. Lid shall have a grounding lug. Lid shall be new and free of scratches, defects, and debris.

10. WIRING

Shall be in accordance with the Standard Specifications, except for the following:

After taping, all splices shall be painted with an approved electrical coating which will resist oil, acids, alkalis, and adverse environmental conditions. Pull ropes used to pull conductors in conduit shall be a minimum of three–eights inch (3/8") in diameter.

11. MASTARM STREETLIGHT

A. GENERAL

Mastarm streetlights standards, Type 15, and foundation shall be in accordance with the latest California Department of Transportation Standard Plans, unless otherwise specified in these Special Provisions and Plans.

B. LUMINAIRE

Luminaires to be installed shall be specifically designed for LED use and rated for up to 100,000 hours of operation. Luminaires shall be designed to produce asymmetric distributions conforming to the Illuminating Engineering Society light pattern Type III unless otherwise specified. Luminaire shall utilize a heat sink to efficiently draw heat away from the LED chipset. The units shall be suitable for two–inch (2") slip filter and mounting. All new luminaires to be installed shall be inspected by the Engineer prior to installation. Luminaires shall be supplied without photo cell receptacles unless otherwise called for the Plans. All luminaires supplied with photo cell receptacles that will not be used shall be required to completely bypass the receptacle and a shorting plug shall be securely installed in the receptacle.

C. LED

Luminaire shall be

* EOI eLite Star SL3x–M LED Street Light – model #ESU FD A01 3M 032 40 M 130 (type 3 distribution) – for Traffic Signal Intersection lighting at 1300ma;
* Leotek Green Cobra Jr LED Street Light – GCJ4–30J–MV–40K–3R–GY–130–WL–RWG–LPCR

The luminaire shall be type III with a minimum CRI of 70 and a CCT of 4000K, unless otherwise specified.

12. METERED SERVICE PEDESTAL

The new metered service pedestal shall be supplied and installed as shown on the Plans and shall conform to the serving utility requirements. Service shall be wired for 120/208 volts or 120/240 volts and single phase as shown on the Plans. The Contractor shall connect the luminaires to the circuits designated on the Plans. Contractor shall also install the service conduit and wires to the SMUD service point in accordance with SMUD's requirements. The Contractor shall protect and lock the service pedestal during construction. After construction is completed, the Contractor shall provide for each pedestal a master lock which will accept a Type 2214 key.

The service pedestal shall be fabricated in accordance with the dimensions shown on the service pedestal detail drawing in the traffic signals / street lighting standard details in the plan sheets. The service pedestal shall consist of a separate metering section and a service section. The meter section shall have a removable cover–top, side, and front sections welded together so that it is rain tight and padlockable.

The service pedestal shall be fabricated from 14 gauge Type 304D stainless steel and as described under the following paragraph in the Caltrans Standard Specifications section 86–3.07A, "Cabinets fabricated from stainless steel shall conform to the following:". The mounting brackets shall be 10 gauge Type 304D stainless steel. All welds shall be of highest quality and ground smooth and finished so that grind marks are not visible.

The enclosure shall be rain tight and dust tight. All welds shall be ground smooth and finished so that grind marks are not visible. A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided in addition to a hinged outside door equipped with a draw latch suitable for padlocking. Galvanized anchor bolts shall be inside or outside the service pedestal as shown on the Plans. 5/8" x 18" x 4" Anchor bolts (set of 4) shall also be provided. The enclosure shall have no screws, nuts, or bolts on the exterior, except utility sealing screws. All screws, nuts, bolts, and washers shall be stainless steel. All hinges and hinge pins shall be stainless steel. No surface of the pedestal shall be deflected inward or outward more than 1/16" measured from the intended plane of the surface.

A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided. A hinged outside door equipped with a heavy duty draw latch and two (2) heavy duty hasps suitable for padlocking shall be provided for the service section. The dead front panel on the service enclosure shall have a continuous stainless steel piano hinge.

Service enclosures shall be factory wired and conform to NEMA Standards. All control wiring shall be stranded copper, No. 14 AWG THHN/THWN rated for 600 Volts. All control wiring shall be marked with permanent clip sleeve wire markers. Felt, pencil, or stick back markers will not be acceptable. A copy of the wiring diagram for the service pedestal shall be enclosed in plastic and mounted on the inside of the service section.

The terminal lugs or strips shall be copper or alloyed aluminum. All terminals shall be compatible with either aluminum or copper conductors.

The service pedestal shall have provisions for the installation of up to a total of 16 single–pole circuit breakers, including brass links and mounting hardware. All copper wiring used for main bussing shall be No. 2 AWG THHN/THWN and rated for 125 amperes. Branch circuit panel shall use loop wiring rated for 105 amperes with THHN/THWN insulation. All circuit breakers, contactors, and wire shall be listed by UL or ETL. The pedestal shall conform to the NEMA 3–R standard.

Nameplates of a reasonable size identifying the control unit therein shall be installed on the dead front panel. Nameplates shall be black laminated with a white plastic center. All nameplates shall be fastened by screws.

The entire service pedestal shall be constructed with the highest quality workmanship and shall meet all applicable codes. Complete submittal drawings on all substitutions shall be submitted to the Engineer in accordance with Section 34_3 of the Standard Specifications. If the proposed substitute is rejected or if the submittal is not made within the specified time, the specified equipment shall be furnished.

Street light "ON" and "OFF" control will be by photo–electric cell. All conduits and wires shall be furnished and installed by the Contractor. Photocell 120 VAC by Tork (5001M) or approved equal.

Mounted in each metered service pedestal shall be the following equipment:

1. Two (2) 100 Amp, 2 Pole, 120/240V, 10KAIC circuit breakers. Each main breaker shall have internal common trip. Each pole shall have individual on–off control and handle tie for common operation. Breaker shall be Siemens or approved equal.
2. One (1) 15 Amp, 1 Pole, 120/240V, 10KAIC circuit breaker for control circuitry. Breaker shall be Siemens or approved equal.
3. Two (2) 60 Amp, 1 Pole, 120/240V, 10KAIC circuit breakers for traffic signal. Breakers shall be Siemens or approved equal.
4. Six (6) 40 Amp, 1 Pole, 120/240V, 10KAIC circuit breakers for street lighting. Breakers shall be Siemens or approved equal.
6. Two (2) 60 Amp, 3–pole, 120/240V contactors. Normally open, mercury contactors. Contactors shall be Durakool, or approved equal.
7. One oil tight "Hand_Off_Auto" selector switch.
8. One solid copper neutral bus.
9. Incoming terminals (landing lugs).
10. Solid neutral terminal strip.
11 Terminal strips for conductors within the cabinet.

APPROVED BY : _____ E–16605 04/07/2025
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER P.E. DATE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION

FIELD BOOK
N/A

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: STAFF DESIGNED BY: STAFF CHECKED BY: J. MATOBA
DATE R.E.E. DATE R.E.E. E–16605 DATE

PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

STREETLIGHT SPECIAL PROVISIONS No. 1

DWG. NO. E–16
P/N:
SHEET 89 OF 95

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13. ORNAMENTAL STREETLIGHT

1. Streetlight Assembly

The streetlight manufacturer shall provide all required components to assemble a streetlight as shown in the attached drawing and as described in the following Special Provisions. The manufacturer shall guarantee that all components provided, when assembled, shall constitute a complete functioning streetlight.

The streetlight capital, globe holder, light engine base, fluted shaft, and base shall be delivered as a single unit, fully assembled and painted as describe in the following Special Provisions. The luminaire assembly, Light Emitting Diode (LED) light engine, and anchor bolts, if required, may be delivered in a separate shipment or container.

Optionally, streetlight assembly shall have weatherproof UL listed GFI electrical receptacles mounted at the top of the pole shaft.

2. Luminaire Assembly

The luminaire assembly shall include a 424 Lexalite Acrylic Prismatic Top, GE8–9 globe, Formed Plastic FP 199, or National Lighting NL199 globe or approved equal as shown on the drawing. The luminaire assembly shall be UL listed for wet/damp locations and shall be furnished prewired.

The Lexalite 424 globe shall have IES Distribution Type III or V as specified by the City Engineer. Assembly of top and bottom parts of the globe shall be by a stainless steel band. Globe top shall not include a factory installed Lexalite spike aluminum finial. The globe shall be provided with a neck ring so that the tightening of the screws will not damage the globe collar.

Unless otherwise specified, the lamp assembly shall be delivered with a light engine. The light engine shall be of LED manufactured by CREE model DPT A SB FR A 40K UL UF, or approved equal.

3. Cast Iron Capital and Globe Holder

The capital and globe holder shall be of the design and dimensions as shown on the drawing and shall be of cast iron per ASTM A48 CL30 standards. The globe holder shall have four (4) 5/16" stainless steel set screws (90 degrees) for mounting of the globe. Set screws shall be square head. Allen or Phillips set screws are not acceptable. The capital shall be prewired with a light engine base. The light engine base shall be of porcelain mogul type. The capital shall be attached to a 3" tenon mounted on top of the steel fluted shaft with four (4) 5/16" stainless steel screws.

4. Steel Fluted Shaft

The fluted shaft shall be of the dimensions shown on the drawing and shall be tapered 0.14" per foot. The fluted shaft shall have the chemical and physical properties of A595 grade A. The fluted shaft shall be fabricated from a single length of a minimum 11–gauge steel sheet, rolled into a fluted shaft on a steel mandrill and finished with a single longitudinal weld. No transverse or intermediate welds or joints shall be permitted.

The fluted shaft shall have sixteen (16) equally spaced Doric flutes, sharp and clear–cut throughout the entire length of the shaft. The radius of the flute's crest shall not exceed the thickness of the shaft material. Individually rolled flutes or round poles with a separate fluted sheathing are not acceptable. Shaft shall be formed true to the pattern and complete in detail. The interior surface shall be smooth with no protrusions or sharp edges. There shall be a minimum of 2" internal clearance extending the fluted shaft's length to permit internal wiring from an underground source.

At the top of the fluted shaft, a steel tenon shall be welded and sized to accept the capital and globe holder. The maximum gap between the inside–diameter of the capital and outside–diameter of the tenon shall be ½".

A ½" steel adapter plate, of 36,000 psi minimum yield strength, shall be welded to the bottom of the fluted shaft. The adapter plate shall include three (3) tapped holes on a 4" bolt–circle to accept ½" –13 stainless steel bolts for attachment to the streetlight pole base. The stainless steel bolts shall be per ASTM F593. The bolts shall be with a minimum yield strength of 92,000 psi. The maximum diameter offset between the bottom of the fluted shaft and the adapter plate shall be as shown in the drawing.

All welds shall meet AWS D1.1.

The complete fluted shaft shall be hot–dipped galvanized per ASTM A123 prior to painting.

13. ORNAMENTAL STREETLIGHT (continued)

5. Cast Iron Base

The streetlight base shall be of the design and dimensions as shown on the drawing and shall be of cast iron per ASTM A48 CL30 standardswith a minimum thickness of ½".

The base shall have an opening for the hand hole of the dimensions shown on the drawing with the cover cast of the same material, and attached with a 1/4" stainless steel, button head hex socket cap screw. The base shall have three (3) holes integrally cast into its top to be attached to the shaft. A minimum of 2" wiring access hole shall also be provided.

The base shall be furnished with a 12"–13 UNC grounding bolt.

6. Anchor Bolts

Unless otherwise specified, each streetlight assembly shall include four (4) galvanized steel anchor bolts of the dimensions as shown on the drawing. Anchor bolts shall meet ASTM – A36 with 55,000 psi minimum yield strength. The threaded portion shall be galvanized. Each anchor bolt shall include two (2) galvanized hex nuts and two (2) flat washers. All galvanized parts shall meet ASTM A153.

7. Surface Coating

The exterior and interior surfaces of the streetlight base, fluted shaft, and capital shall have surface preparation, primer coating, and two coats of paint. The surfaces of the base, fluted shaft, and capital shall have a smooth finish that shall be uniform along the entire length of the streetlight pole assembly. All surface preparation, primer coating, and painting application shall be performed inside a shop or plant before shipment to jobsite.

The manufacturer shall provide Manufacturer Certification that all primer coating and paint application was performed per coating manufacturer specifications for the selected coating, prior to delivery of streetlight pole. Minor field coating touch–up may be permitted at the City's discretion.

All work shall be performed in strict accordance with these specifications and the manufacturer's directions for the materials to be used on this project.

A. Surface Preparation

The exterior and interior surfaces of the pole shall be prepared as follows:

a) All sharp edges shall be removed or rounded.
b) Contaminants such as oil, grease, dirt, etc., shall be removed by solvent cleaning per SSPC–SP1 (solvent cleaning).
c) All non–galvanized surfaces shall be blasted per SSPC–SP10 (Near White Metal Blast) to remove all rust, mill scales, slags, and foreign matters.
d) Streetlight base, fluted shaft, and capital shall be primed on the same day the surface preparation is completed.

B. Primer Coating

After surface preparation is completed, the cast iron streetlight assembly shall have a primer coating as follows:

a) Use Sherwin Williams Macropoxy 646 Fast Cure Epoxy – Black (OR Mill White primer if Sacramento Green is specified as the paint color) or approved equal.
b) Mix Macropoxy per manufacturer directions.
c) Apply primer to each streetlight component separately, including the interior and exterior surfaces.
d) Apply a fog coat of primer of 1.0 – 2.0 mils, approximately 1 hour prior to full prime coat.
e) Apply full prime coat at the recommended spreading rate per coat for the Macropoxy 646 Primer; wet mills (7 minimum, 13.5 Maximum), dry Mills (5 minimum, 10.0 Maximum). See manufacturer product information for drying schedule and application conditions.

C. Paint Application

After primer coating, the streetlight assembly shall be painted as follows:

a) Use Sherwin Williams Hi–Solids Polyurethane 100 – Gloss Black (OR Sacramento green color if specified on the drawing) or approved equal.
b) Apply two (2) coats of paint to the entire streetlight assembly, including the interior and exterior surfaces.
c) Apply the paint at the recommended film thickness and spreading rate per coat; wet mills 3.6 minimum, 4.8 maximum; dry mills 3.0 minimum, 4.0 maximum. See manufacturer product information for drying schedule and application conditions.

13. ORNAMENTAL STREETLIGHT (continued)

Paint application shall be in accordance with the principles of good workmanship described in SSPC–PA1, Paint Application Specification No. 1, Shop Field and Maintenance Painting. The Quality Control/Specifications are as follows: Dry Film test per ASTM D7378–07, Holiday Porosity Test per ASTM D5162–01, Cross Hatch Adhesion per ASTM D6677–01, Pencil Hardness test per ASTM D3363, Impact Resistance per ASTM D2794, Visual Gloss Inspection, and Final Visual Inspection.

8. Design Standards

Streetlight assembly and all materials used in its manufacture shall meet the requirements of the most current adopted version of the American Association of State Highway and Transportation Officials (AASHTO) "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" and this specification.

In addition to the requirements of the AASHTO Specification, the post and anchorage shall be designed with a minimum safety factor of two (2) and shall not deflect more than five (5%) percent of the above ground height at full wind loading.

9. Factory Certification

Each streetlight assembly shall be certified by the manufacturer to meet all requirements specified herein. The manufacturer shall make factory and all manufacturing processes open for City Quality Control Inspection if requested by the City Engineer. City shall incur all inspection cost.

10. Identification

Each pole shall bear an identification tag which shall list the manufacturer model number of the pole and year and location of manufacture. The identification tag shall be placed inside of the base, facing the hand hole, and clearly visible from the outside when installed and the hand hole cover is removed.

11. Material Availability

Pole manufacturer shall certify to the City that the accepted pole base, capital, shaft, and luminaire is or will become a stock item, readily available with replacement parts for a minimum ten (10) year.

12. Material Certification

Material certifications shall be provided for all components referred to in the drawing and these Special Provisions.

13. Packaging

Each streetlight assembly and luminaire shall be individually packaged to prevent damage with sufficient packaging strength for protection during shipping and storage. Small parts shall be packaged in boxes. Individual components shall be packaged in the same manner as the poles and luminaries. All handling shall be done with rope or nylon slings to prevent surface damage. Use of chains, wire slings or unprotected forks or hooks is prohibited.
Packing list and assembly instruction sheet shall be included.

14. Acceptance

After packaging is removed and prior to installation, each streetlight assembly shall be inspected for manufacturing or paint defects by the City Engineer. No streetlight assembly is to be installed without the expressed approval of the City.

15. Testing

Factory testing shall be provided at the request of the City Engineer in accordance with manufacturer's testing procedures.

16. Warranty

The streetlight manufacturer shall warrant against any defects and shall replace all defective parts or streetlight assemblies for a period of five (5) years from the date received by the City. Pole manufacturer shall provide written warranty with shipment of poles.

17. Welding

Welding shall be conducted by certified welders in compliance with the latest edition of the American Welding Society D1.1, Structural Welding Code – Steel. All parts shall be cleaned prior to welding by an approved industry standard method.

18. Wind Resistance

Entire pole and luminaire to be rated to withstand AASHTO requirements for a minimum 70 mile and hour wind load with a 30% gust factor.

13. ORNAMENTAL STREETLIGHT (continued)

19. Sealing of Streetlight Pole Foundation

The concrete for the foundation shall be finished so that the top surface is straight and smooth with a 2% grade conforming to the adjoining sidewalk.

Remove concrete forms on streetlight foundation upon project completion. Remove all plywood, forms, excess and leftover concrete, and other debris as a result from construction upon project completion.

Once the pole is installed and leveled on the anchor bolts, the gap between the base of the pole and the top of the foundation shall be sealed using the following procedure:

The bottom surface of the pole base shall be primed using Pecora P–120 or approved equal and the top of the foundation shall be primed using a Pecora P–150 or approved equal. The curing of the concrete used for the foundation or pavement and the application of the primer shall follow the guidelines provided by the manufacturer of the primer and sealant.

The gap to be sealed shall be partially filled by pushing in a 1.5" diameter Bi–Cellular Backer Rod (SOF Rod), cut to size, and installed around the bottom perimeter of the pole base, pushed against the anchor bolts. The backer road product shall be made by Construction Foam Products or approved equal.

A one half–inch (1/2") inside diameter drain tube shall be placed in the gap between the base of the pole and its foundation to prevent standing water. The drain tube shall be placed under the backer rod, flush with the finished surface of the concrete, and extending about 2.25" toward the center of the pole base. It shall be placed so that it is following the downward slope of the surrounding sidewalk and top of foundation (about 2%). The drain tube shall be made of PVC with a wall thickness of 1/16" or as approved by the engineer.

Once the primer is dry as recommended by the manufacturer, and the backer rod is installed, the Contractor shall apply a silicone sealant, with a minimum thickness of 0.5inch. Use a pre–tinted black color silicone, model number Pecora 890NST or approved equal. Completely seal the gap between the base of the pole and the top of the foundation with the silicone sealant. Use a masking tape when applying the sealant, in order not to smear the outside of the pole, and the surrounding pavement with the sealant material. The sealant shall be smoothed out around the base of the pole, and any excess material removed before it is set to cure as required by the sealant manufacturer.

The sealant shall be smoothed out around the base of the pole, and any excess material removed before it is set to cure as required by the sealant manufacturer.

APPROVED BY : _____ E–16605 **04/07/2025**
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER P.E. DATE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION

FIELD BOOK N/A

SCALE
HORIZ. N/A
VERT. N/A

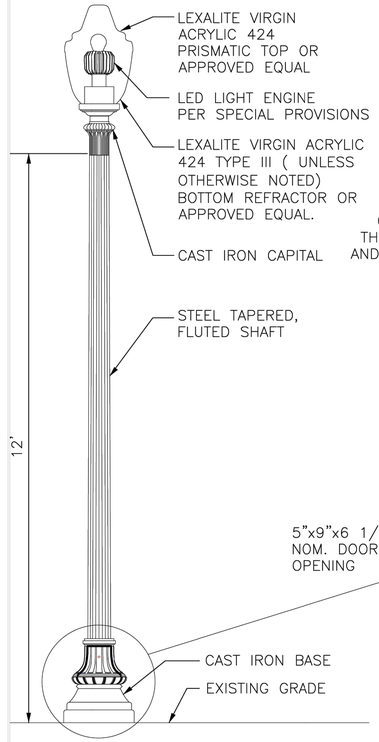
CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: STAFF DATE
DESIGNED BY: STAFF R.E.E. DATE
CHECKED BY: J. MATOBA R.E.E. E–16605 DATE

PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

STREETLIGHT SPECIAL PROVISION No. 2

DWG. NO. E-17
SHEET 90 OF 95
PN:



STYLE 1
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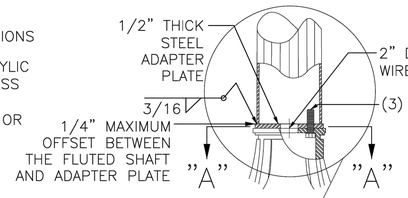
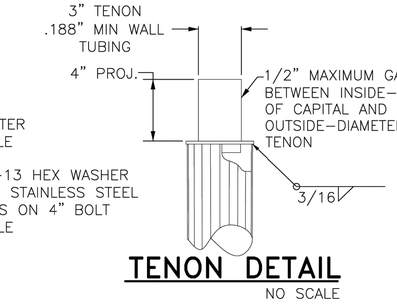
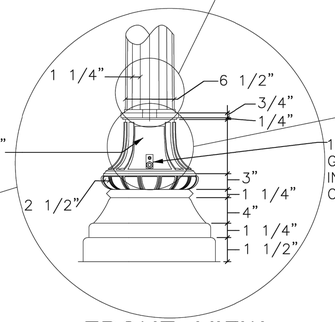
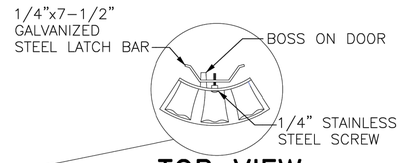




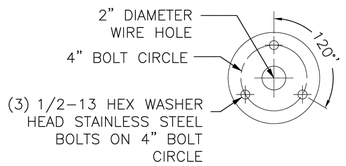
TENON DETAIL
NO SCALE



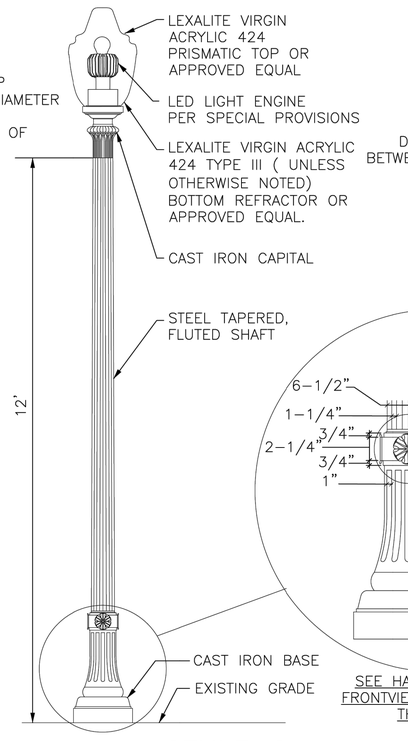
FRONT VIEW HANDHOLE COVER



TOP VIEW HANDHOLE COVER & LATCH BAR



STEEL ADAPTER PLATE VIEW "A-A"
NO SCALE



STYLE 2
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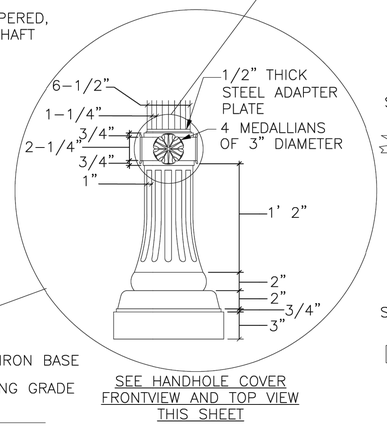
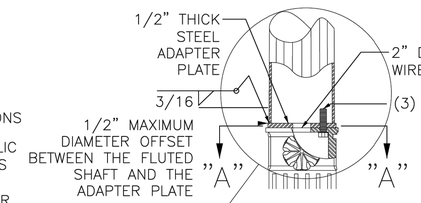
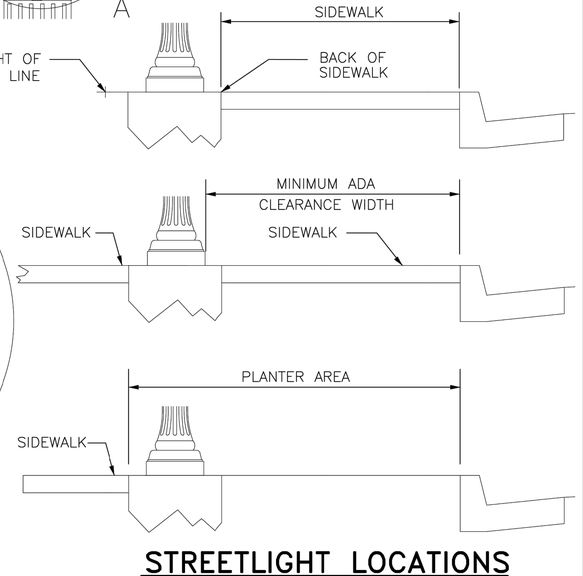


SEE HANDHOLE COVER FRONTVIEW AND TOP VIEW THIS SHEET





STREETLIGHT LOCATIONS
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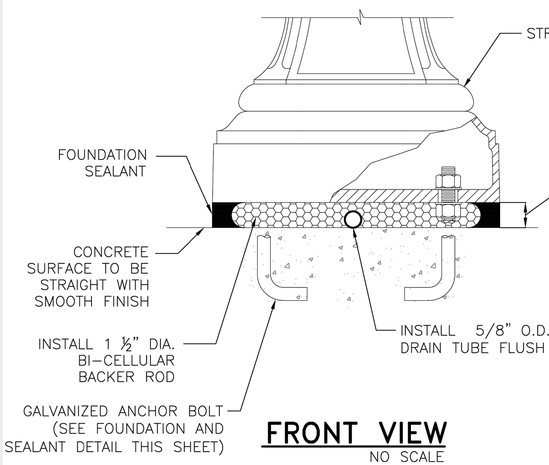

FRONT VIEW
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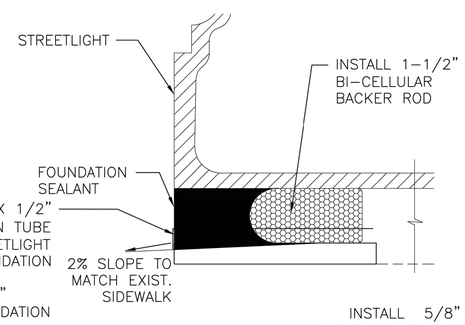
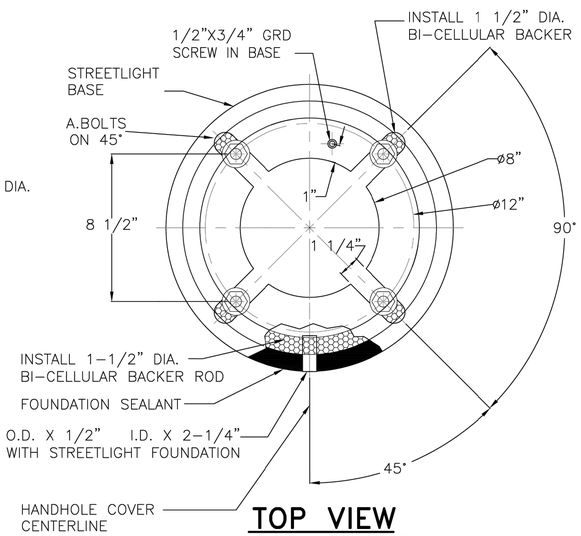
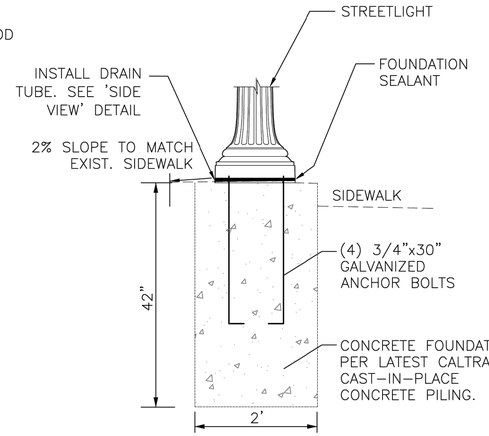


SIDE VIEW
NO SCALE



TOP VIEW
NO SCALE



FOUNDATION AND SEALANT DETAIL
NO SCALE

APPROVED BY : _____ E-16605 **08/01/2023**
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — P.E. — DATE

CAD FILE:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION

FIELD BOOK -

SCALE
HORIZ. _____
VERT. _____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: TECHNICIAN — DATE _____
DESIGN BY: J. MATOBA — R.C.E. E-16605 — DATE _____
CHECKED BY: J. MATOBA — R.C.E. E-16605 — DATE 06/15/24

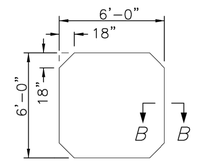
PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

STANDARD DETAILS FOR ORNAMENTAL STREETLIGHTS

DWG. NO. E-18
SHEET 91 OF 95

LEGEND

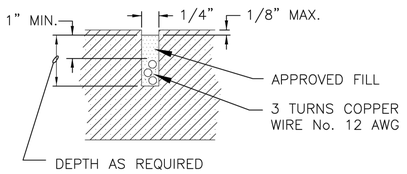
EXISTING	PROPOSED	
		EMERGENCY VEHICLE DETECTOR (EV)
		TRAFFIC SIGNAL FACE WITH BACK PLATE
		TRAFFIC SIGNAL FACE WITH 12" ARROW SECTIONS
		TYPE 1 STANDARD AND ATTACHED TRAFFIC SIGNAL FACES
		STANDARD WITH SIGNAL MAST ARM ONLY AND ATTACHED TRAFFIC SIGNAL FACES
		STANDARD WITH SIGNAL AND LUMINAIRE MAST ARMS AND ATTACHED TRAFFIC SIGNAL FACES AND LUMINAIRE
DETECTOR HANDHOLE	DETECTOR HANDHOLE	INDUCTIVE LOOP DETECTOR, WITH DETECTOR HANDHOLE AND LOCATION OF SAWCUTS
		VIDEO DETECTION ZONE
		ELECTROLIER, TYPE 15 STANDARD WITH MAST ARM WITH CIRCUIT No. INDICATED.
		PEDESTRIAN SIGNAL FACE, 2 SECTIONS ELECTROLIER, POST TOP WITH CIRCUIT No. INDICATED.
		(INTERNATIONAL SYMBOL)
		CONTROLLER CABINET
		SERVICE PEDESTAL
		CONCRETE PULL BOX No. 5 MINIMUM
ppb	PPB	PEDESTRIAN PUSH BUTTON
		FIRE ALARM BOX
		TRAFFIC SIGNAL CONDUIT
OH		OVERHEAD CONDUCTOR
		PEDESTRIAN PUSH BUTTON POST
		S.M.U.D. SERVICE BOX
		POWER POLE
		VIDEO DETECTION CAMERA
		CCTV



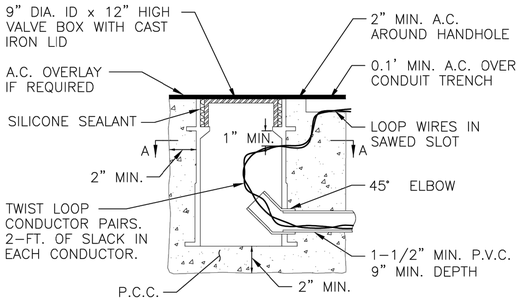
LOOPS SHALL BE 6'X6' FOR LANE WIDTH > 11', UNLESS OTHERWISE SPECIFIED

LOOPS SHALL BE 5'X5' FOR LANE WIDTH LESS THAN OR EQUAL TO 10', UNLESS OTHERWISE SPECIFIED

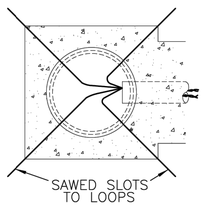
6'X6' LOOP



SECTION B–B
LOOP SAW CUTTING DETAIL



TYPE 'B' DETECTOR



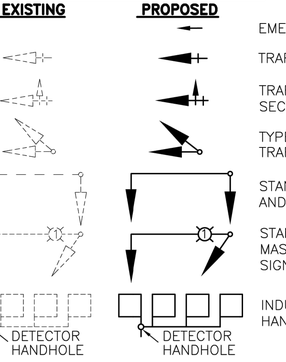
SECTION A–A
DETECTOR HANDHOLE

TYPE 'B' DETECTOR HANDHOLE INSTALLATION REQUIREMENTS:

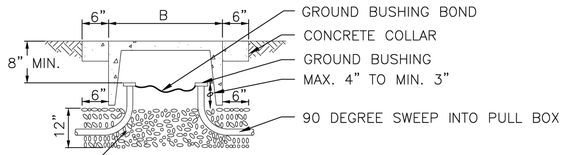
1. OUTLINE OF TRENCH SHALL BE SAW CUT TO A MINIMUM DEPTH OF 3'' EXCEPT WHERE AC OVERLAY IS TO BE PLACED.
2. THE PRECAST VALVE BOX WITH CAST IRON LID SHALL BE FABRICATED OF CALCIUM CARBONATE AND POLYESTER RESINS WITH FIBERGLASS REINFORCING AND DESIGNED FOR HEAVY TRAFFIC LOADS.
3. CAST IRON LID SHALL BE MARKED ''DETECTOR'' AND SHALL BE SECURED IN PLACE BY APPLYING WATERPROOF SILICONE SEALANT. VALVE BOX SHALL BE CENTERED ON LANE LINE, UNLESS OTHERWISE SHOWN ON THE PLANS.
4. THE EXCAVATION AROUND THE HANDHOLE SHALL BE BACKFILLED WITH P.C.C. EXCEPT THE TOP 2'' IN AC SURFACED ROADWAYS SHALL BE BACKFILLED WITH AC.
5. THE HANDHOLE SHALL BE PROTECTED WITH COLD PATCH OR OTHER SUITABLE PROTECTION UNTIL PERMANENT AC BACKFILL IS PLACED.

GENERAL NOTES

1. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH: CITY OF SACRAMENTO LATEST CITY STANDARDS SPECIFICATIONS, THE LATEST CAL TRANS STANDARD PLANS, AND THE LATEST CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL MATERIAL TO BE REMOVED AND SALVAGED, SHALL BE DELIVERED TO THE CITY CORPORATE CENTER WITHOUT DAMAGE. COORDINATE WITH CITY ENGINEER.
3. ALL TERMINAL COMPARTMENTS LOCATED ON STANDARDS SHALL BE MOUNTED ON THE SIDE FARTHEST FROM VEHICULAR TRAFFIC. UNLESS OTHERWISE SPECIFIED, OR DIRECTED BY THE ENGINEER.
4. PULL BOXES SHALL BE PLACED IN SIDEWALK AREAS AND SHALL NOT BE PLACED IN DRIVEWAYS, IN VEHICULAR TRAFFIC LANES, OR IN SIDEWALK HANDICAPPED RAMP AREAS.
5. CONDUCTORS BETWEEN BASE OF ELECTROLIER AND LUMINAIRE SHALL BE No. 10 THW MINIMUM.
6. THREE FEET OF SLACK SHALL BE PROVIDED IN EACH PULL BOX FOR EACH CONDUCTOR.
7. EXACT LOCATIONS OF ALL STANDARDS, PEDESTALS AND CABINETS WILL BE DETERMINED BY THE ENGINEER PRIOR TO INSTALLATION, AND SHALL BE AT LEAST 3 FEET FROM FACE OF CURB.
8. ALL TRAFFIC SIGNAL HEADS SHALL HAVE A BACK PLATE WITH 2" YELLOW RETROREFLECTIVE BORDER.
9. AT ALL JUNCTIONS SUCH AS PULL BOXES, ELECTROLIER BASES, AND PEDESTALS WHERE PVC CONDUITS ARE INSTALLED, ALL RIGID GALVANIZED CONDUITS AT THESE LOCATIONS SHALL BE PROVIDED WITH GROUNDING BUSHINGS AND CONNECTED TO THE GROUNDING CONDUCTORS.
10. ALL LUMINAIRES SHALL BE SUPPLIED WITHOUT PHOTO CELL RECEPTACLES UNLESS OTHERWISE SPECIFIED.
11. PULL ROPES USED TO PULL CONDUCTORS IN CONDUIT SHALL BE A MINIMUM OF 1/4" IN DIAMETER.
12. SEE SPECIAL PROVISIONS FOR LOOP CONDUCTOR AND LEAD–IN SPECIFICATIONS.
13. LOOP DIMENSIONS SHALL BE 6' x 6' SQUARES LOOPS UNLESS OTHERWISE SHOWN ON THE PLANS.

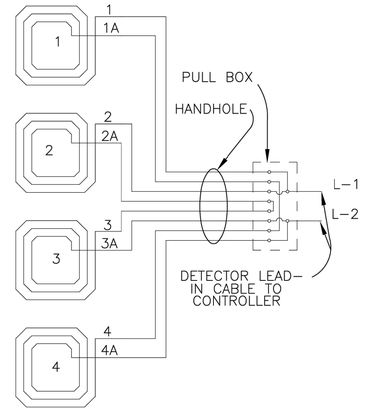


PULL BOX DIMENSIONS		
PULL BOX	A	B
5	18"	27–1/2"
6	22"	35"

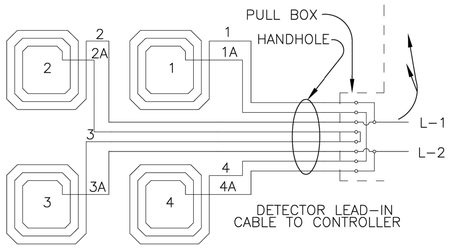


INSTALL PULL BOX ON TOP OF CRUSHED ROCK FOUNDATION. ADJUST PULL BOX TO GRADE. THE CRUSHED ROCK FOUNDATION SHALL HAVE A MINIMUM OF 12" IN DEPTH AND CONTINUE TO EXTEND A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE PULL BOX. COMPACT CRUSHED ROCK WHILE MAINTANING INTEGRITY OF CONDUIT. CONDUIT AND PULL BOX SHALL NOT BE DAMAGED NOR CRACKED.

CONCRETE PULL BOX



FOUR LOOPS IN TURN LANE



FOUR LOOPS IN THRU LANES

LOOP WINDING PATTERNS

APPROVED BY : _____ E–16605 08/01/2023
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — P.E. — DATE

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DESCRIPTION _____

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: TECHNICIAN DATE _____
DESIGN BY: J. MATOBA R.C.E. E–16605 DATE _____
CHECKED BY: J. MATOBA R.C.E. E–16605 DATE 06/15/24

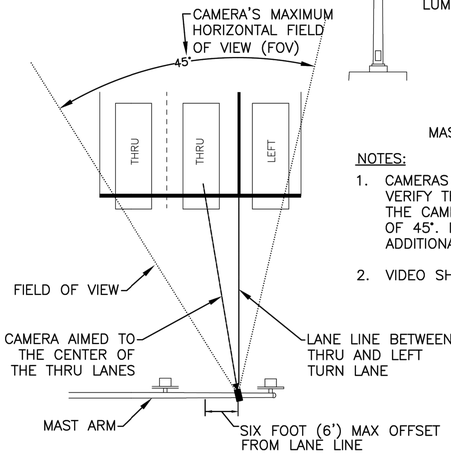
PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

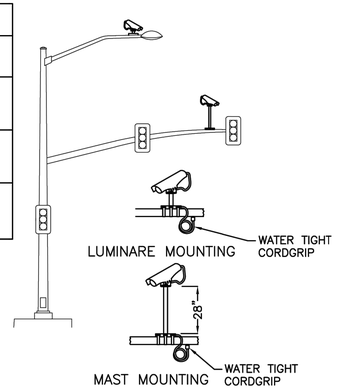
STANDARD DETAILS FOR TRAFFIC SIGNAL No. 1

DWG. NO. E-19
SHEET 92 OF 95

VIDEO DETECTION FIELD OF VIEW AND MOUNTING DETAIL

VIDEO DETECTION		
NUMBER OF APPROACH LANES	QTY OF CAMERAS	CAMERA MOUNTING
6 LANES + BIKE LANE OR LESS	1	MAST ARM
GREATER THAN 6 LANES + BIKE LANE	2	LUMINAIRE ARM
SPLIT PHASE	1	LUMINAIRE ARM





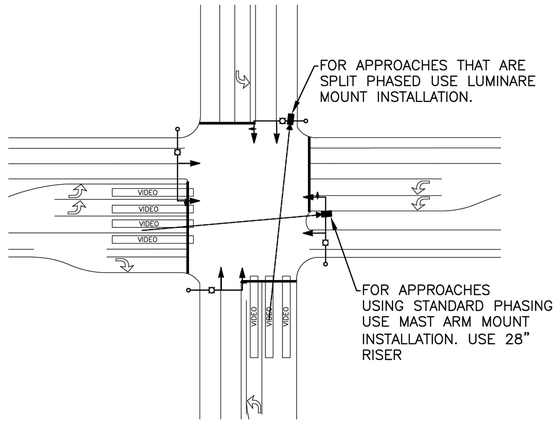
NOTES:

1. CAMERAS FIELD OF VIEW (FOV) SHALL BE CHECKED TO VERIFY THAT THE CAMERA CAN DETECT ALL LANES. THE CAMERA SHALL HAVE A MAXIMUM HORIZONTAL FOV OF 45°. IF ALL LANES DO NOT FIT IN THE FOV THEN ADDITIONAL CAMERAS OR LOOPS WILL BE REQUIRED.
2. VIDEO SHALL BE USED FOR STOPBAR DETECTION ONLY.

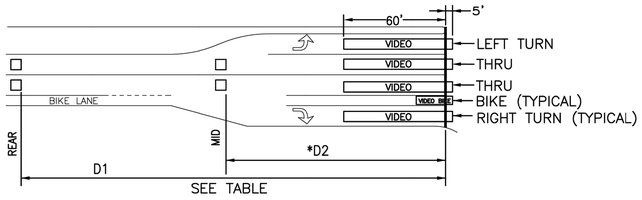
NOTE: DETAIL DEMOSTRATES FOV AND AIMING ONLY. DOES NOT DENOTE THE AMOUNT OF DETECTED LANES.

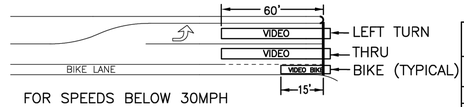
SINGLE CAMERA DETECTION MOUNTING

FOR APPROACHES 6 LANES + BIKE LANE OR LESS



TYPICAL DETECTOR LAYOUT VIDEO & LOOPS





FOR SPEEDS BELOW 30MPH

LOOP DISTANCE		
DESIGN OR 85TH SPEED	REAR D1	MID D2*
BELOW 30 MPH	N/A	
30 MPH	175'	
35 MPH	200'	
40 MPH	250'	
*45 MPH	300'	200'
*50 MPH	350'	225'
*55 MPH	405'	250'

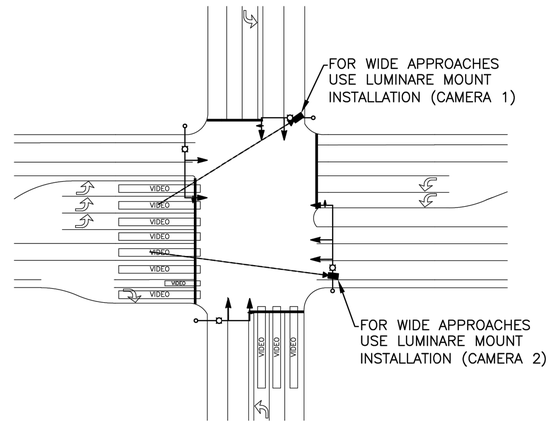
'*' MID (D2) LOOP TO BE INSTALLED AT THE DISCRETION OF THE CITY TRAFFIC ENGINEER.

NOTES:

1. NOMINAL LOOP SIZE TO BE 6'x6'.
2. EACH REAR AND MID LOOP SHALL HAVE A ONE DLC.

DUAL CAMERA DETECTION MOUNTING

FOR APPROACHES GREATER THAN 6 LANES + BIKE LANE



APPROVED BY : JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — E-16605 P.E. — 08/01/2023 DATE

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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DESIGN BY: J. MATOBA — R.C.E. E-16605 DATE _____
CHECKED BY: J. MATOBA — R.C.E. E-16605 DATE 06/15/24

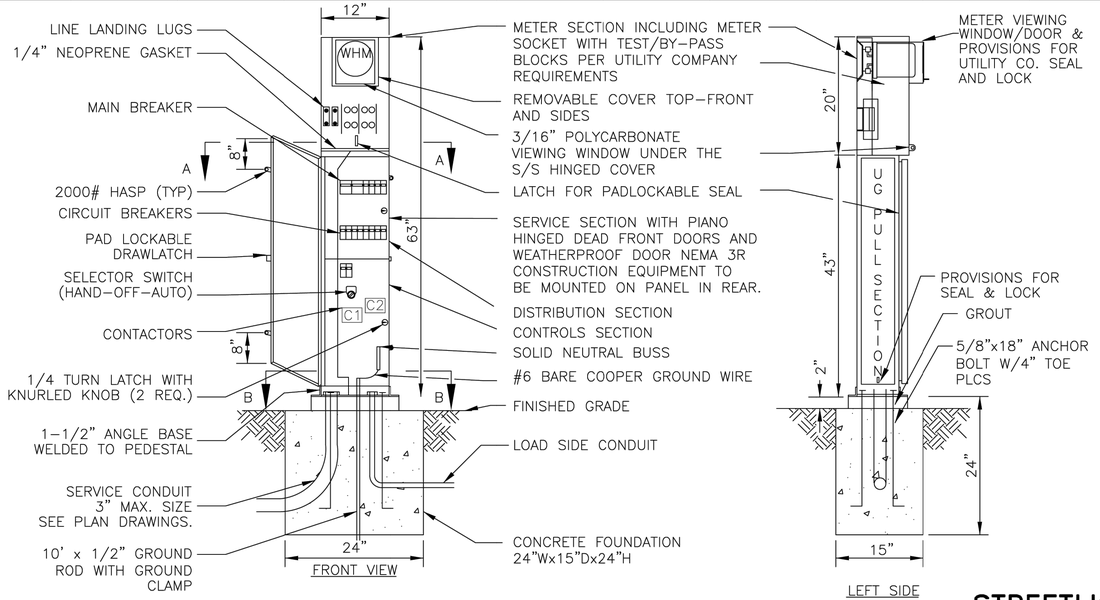
PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

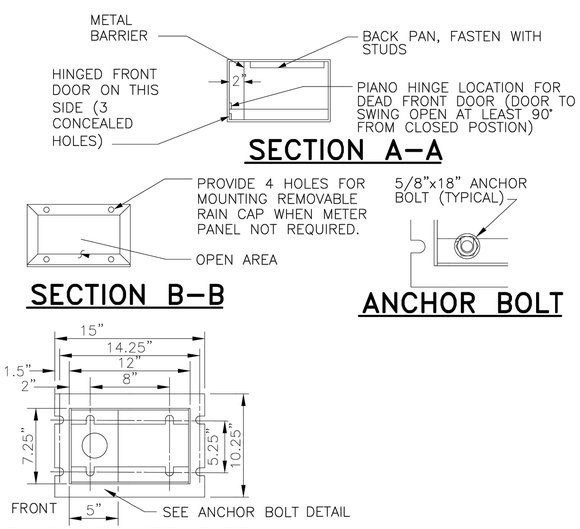
STANDARD DETAILS FOR TRAFFIC SIGNAL No. 2

DWG. NO. E-20
SHEET 93 OF 95

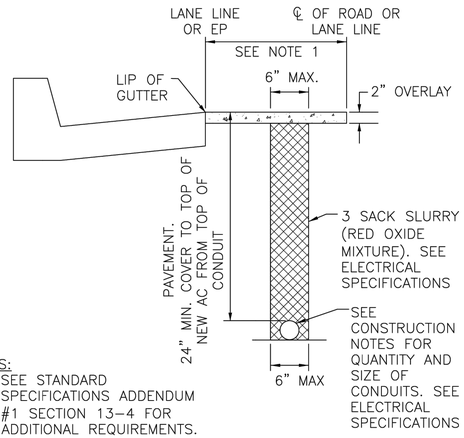
PLOT STAMP:Wednesday, April 9, 2025 11:15:25 AM
CAD FILE: P:\Engineering Services\TechDoc\Drawings\1\Standard Details for Traffic Signals and StreetLights\Electrical Details Signed by John Matoba\Electrical Standard Details.dwg

EXISTING	NEW	DESCRIPTION
○	① CIRCUIT NO.	ORNAMENTAL OR POST TOP STREETLIGHT
	① CIRCUIT NO.	MASTARM STREETLIGHT
		CONDUIT
		PULL BOX
		SERVICE PEDESTSAL
		SMUD SERVICE POLE
		SMUD SERVICE SIDEWALK BOX
		TRAFFIC SIGNAL CABINET
		TRAFFIC SIGNAL DISPLAY
		TRAFFIC SIGNAL DISPLAY LEFT TURN
		VIDEO DETECTION CAMERA
		CCTV CAMERA
S		PEDESTRIAN SIGNAL DISPLAY



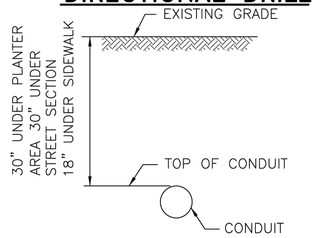


EXISTING STREET CONSTRUCTION

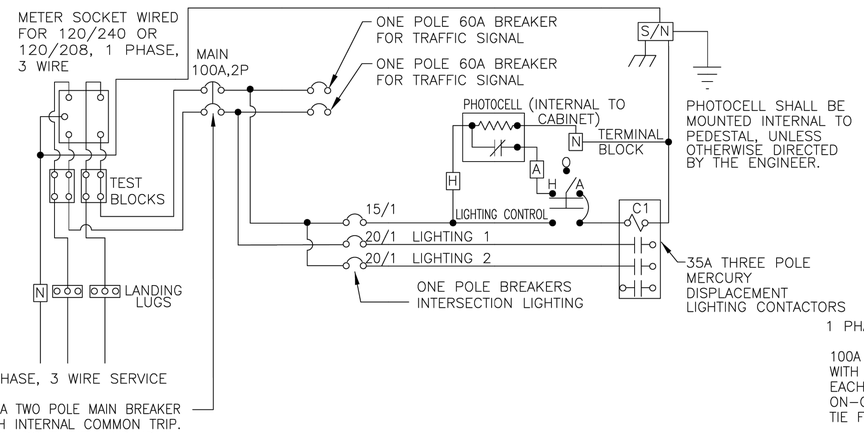


NOTES:
1. SEE STANDARD SPECIFICATIONS ADDENDUM #1 SECTION 13-4 FOR ADDITIONAL REQUIREMENTS.

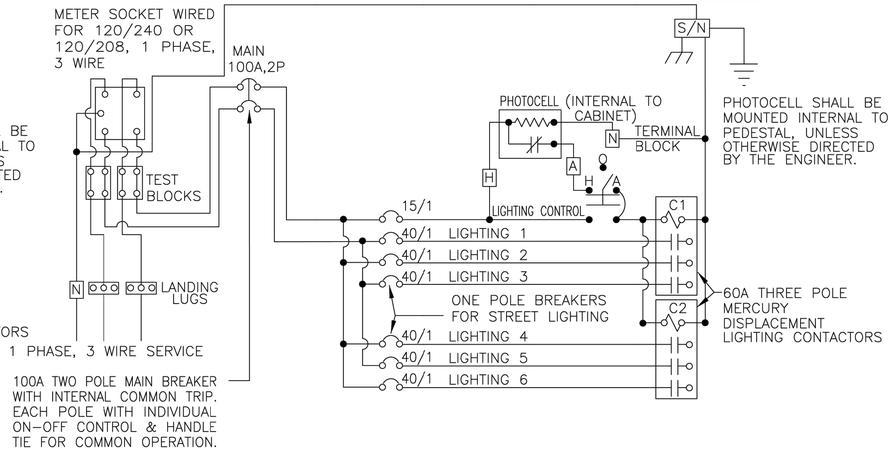
DIRECTIONAL DRILL



TRAFFIC SIGNAL METERED SERVICE PEDESTAL



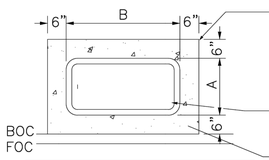
STREETLIGHT METERED SERVICE PEDESTAL



ENCLOSURE CONSTRUCTION NOTES:

1. EXTERIOR 14 GAUGE #304D STAINLESS STEEL, INTERIOR DEAD FRONT PANEL AND BACK PAN SHALL BE 14 GAUGE STEEL PAINTED WHITE ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION IS NEMA 3R AND 12, RAINTIGHT AND DUSTTIGHT.
3. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS ARE NOT USED ON THE OUTSIDE OF PEDESTAL.
5. PHENOLIC NAMEPLATES TO IDENTIFY ALL OPERATOR CONTROLS
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. PEDESTAL WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
9. PEDESTAL(S) WILL BE U.L. LISTED AS INDUSTRIAL CONTROL PANELS U.L. 508 FILE NO. E62062
10. WIRING BETWEEN CIRCUIT BREAKER AND CONTACTOR SHALL BE A #10 THWN OR THHN MINIMUM.
11. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

CONCRETE PULL BOX

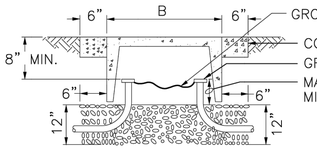


PULL BOX DIMENSIONS		
PULL BOX	A	B
5	18"	27-1/2"
6	22"	35"

EDGES TO BE SAWED TO A DEPTH OF 1-1/2" OR MORE. TYPICAL FOR ALL PULL BOXES. 6" THICK CONCRETE COLLAR. TYPICAL FOR ALL PULL BOXES.

LOCKABLE LID. SEE SPECIAL PROVISIONS FOR DETAILS.

INSTALL PULL BOX ON TOP OF CRUSHED ROCK FOUNDATION. ADJUST PULL BOX TO GRADE. THE CRUSHED ROCK FOUNDATION SHALL HAVE A MINIMUM OF 12" IN DEPTH AND CONTINUE TO EXTEND A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE PULL BOX. COMPACT CRUSHED ROCK WHILE MAINTANING INTEGRITY OF CONDUIT. CONDUIT AND PULL BOX SHALL NOT BE DAMAGED NOR CRACKED.



APPROVED BY : JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — E-16605 P.E. — 04/07/2025 DATE

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION

FIELD BOOK N/A

SCALE HORIZ. N/A VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: STAFF DATE
DESIGNED BY: STAFF R.E.E. DATE
CHECKED BY: J. MATOBA R.E.E. E-16605 DATE

PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

ELECTRICAL STANDARD DETAILS

PN:
DWG. NO. E-21
SHEET 94 OF 95

PLOT STAMP:

FIBER INSTALLATION GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL ALL FIBER OPTIC CABLE PER MANUFACTURER'S RECOMMENDATIONS AND THE CITY'S PLANS AND SPECIAL PROVISIONS.
2. CONTRACTOR SHALL USE CITY APPROVED CONTRACTOR FOR ALL SPLICE WORK. ALL PATCH PANELS AND SPLICE MATERIALS WILL BE PROVIDED BY THE CONCTRACTOR OR CITY APPROVED CONTRACTOR.
3. THE CONTRACTOR SHALL TEST ALL FIBER OPTIC CABLE SPANS AFTER INSTALLATION (BARE FIBER TESTING). TESTING RESULTS MUST BE PROVIDED TO THE CITY INSPECTOR. TESTS SHALL DEMONSTRATE FIBER OPTIC CABLE STILL MEETS THE MANUFACTURE SPECIFICATIONS AFTER INSTALLATION. CITY SHALL APPROVE TEST RESULTS. CONTRACTOR SHALL NOT SCHEDULES SPLICE WORK UNTIL CABLE IS ACCEPTED BY THE CITY. SPLICE WORK SHALL BE PREFORMED BY A CITY APPROVED CONTRACTOR.
4. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL SHEATH FOOTAGE MARKINGS FOR EACH CABLE SPAN. RECORDS AND A SOFT COPY OF ALL RECORDS SHALL BE PROVIDED TO THE CITY WITH TEST RESULTS ALONG WITH THE PROGRAM TO REVIEW THE SOFT COPY OF THE TEST RESULTS.
5. EXISTING FIBER OPTIC CABLE MUST BE PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR 24 HOURS PRIOR TO WORKING NEAR ANY EXISTING CITY FIBER OPTIC CABLING.
6. DURING INSTALLATION THE TENSILE FORCE SHALL NOT EXCEED 600 LBS. THE CONTRACTOR SHALL USE A BREAK AWAY SWIVEL, OR A SLIP-CLUTCH CAPSTAN, SET FOR LESS THEN 600 LBS. PULLING TENSILE STRENGTH.
7. THE CONTRACTOR SHALL INSTALL FIBER MARKING TAGS SHALL BE INSTALLED ON FIBER OPTIC CABLE IN EVERY PULL BOX. THE TAGS SHALL BE NON-ADHESIVE, HELLERMANN-TYTON 4" FIBER OPTIC MARKER, PART NUMBER CMF04 OR APPROVED EQUAL.
8. THE CONTRACTOR SHALL INSTALL ARNCO BULL LINE PART #WP12LC (WITH TRACE WIRE) OR APPROVED EQUAL WITH THE FIBER OPTIC CABLE

FIBER OPTICS CABLE GENERAL NOTES:

1. FIBER OPTIC CABLE SHALL BE CORNING ALTOS ALL-DIELECTRIC GEL-FREE OR APPROVED EQUAL, SEE SPECIAL PROVISIONS. APPROVAL SHALL BE BY TRAFFIC OPERATION STAFF.
2. CONTRACTOR SHALL INSTALL FIBER PER MANUFACTURE RECOMMENDATION.
3. CONTRACTOR SHALL USE THE FOLLOWING CABLE TYPES AS LISTED BELOW OR APPROVED EQUAL. APPROVAL SHALL BE BY THE CITIES TRAFFIC SIGNAL OPERATIONS STAFF.

FIBER SPLICING/TERMINATION GENERAL NOTES:

1. CONTRACTOR SHALL USE CITY APPROVED FIBER CONTRACTOR FOR ALL FIBER TERMINATION.
2. A LIST OF CITY APPROVED FIBER TERMINATION CONTRACTORS CAN BE OBTAIN FORM THE CITY'S INFORMATION TECHNOLOGY DEPARTMENT AT 808-8785 OR FROM TRAFFIC SIGNAL OPERATION GROUP AT 808-6796.
3. ALL TERMINATION / SPLICE WORK WILL BE PERFORMED BY CITY APPROVED CONTRACTOR. ALL PATCH PANELS AND SPLICE MATERIALS WILL BE PROVIDED BY CITY APPROVED CONTRACTOR.
4. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL OPERATIONS GROUP AT 808-6796 FOR FIBER TERMINATION TABLE AND/OR DIAGRAMS.
5. THE CONTRACTOR SHALL HAVE CITY APPROVED CONTRACTOR TEST ALL FIBER OPTIC CIRCUITS. TESTING RESULTS MUST BE PROVIDED TO THE CITY INSPECTOR. AFTER FIBER OPTIC CABLE TESTS DEMONSTRATE THE FIBER OPTIC CABLE STILL MEETS THE MANUFACTURES SPECIFICATIONS, THE CABLE AND TERMINATION WORK WILL BE ACCEPTED BY THE CITY.

FIBER OPTIC CABLE		
DESCRIPTION	PART #	MANUFACTURER
12 STRAND	012ZU4-T4F22D20	CORNING
12 STRAND SST DROP (FLAT)	012EB4-14101A20	CORNING
24 STRAND	024ZU4-T4F22D20	CORNING
48 STRAND	048EU4-T4F22D20	CORNING
96 STRAND	096EU4-T4700D20 OR 096EU4-T4701D20	CORNING CORNING

FIBER PATCH CABLE (OS2 JUMPERS)		
DESCRIPTION	PART #	MANUFACTURER
1m	040402G512001M	CORNING
2m	040402G512002M	CORNING

TRACER TAPE		
DESCRIPTION	PART #	MANUFACTURER
DETECTABLE MULE TAPE	DT1250P	NEPTCO DT1250P OR DURA LINE WP12LC

FIBER OPTICS CABLE TESTING GENERAL NOTES (BARE FIBER TEST):

ALL TESTING SHALL BE PERFORMED ACCORDING TO THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) TECHNICAL SERVICE BULLETIN TSB-140, "ADDITIONAL GUIDELINES FOR FIELD – TESTING LENGTH, LOSS AND POLARITY OF OPTICAL FIBER CABLING SYSTEMS."

1. THE CONTRACTOR MAY TEST THE FIBER OPTIC CABLE PRIOR TO INSTALLATION, BUT MUST TEST FIBER OPTIC CABLE AFTER INSTALLATION.
2. THE CONTRACTOR SHALL TEST EACH FIBER IN THE CABLE.
3. A CONTINUITY TEST USING A POWER METER SHALL BE USED FOR 12 STRAND CABLES LESS THAN 200 FEET. POWER READING SHALL BE PROVIDED WITH TEST RESULTS.
4. THE CONTRACTOR SHALL USE BOTH A POWER METER TEST FOR CONTINUITY AND AN OPTICAL TIME DOMAIN REFLECTOMETER (OTDR) TO TEST ALL OTHER CABLE SPANS GREATER THAN 12 STRANDS OR LONGER THAN 200 FEET. PROOF OF CALIBRATION OF ALL FIBER OPTIC TEST EQUIPMENT MAY BE REQUESTED BY THE INSPECTOR AT ANY TIME, AND MUST BE PROVIDED ALONG WITH THE TEST RESULTS.
5. THE FIBER OPTIC CABLE SHALL MEET OR EXCEED ANSI/EIA/TIA – 568B.3 AND THE LATEST BICSI TDMM STANDARDS.
6. TEST RESULTS SHALL INCLUDE THE FOLLOWING:
   - TOTAL FIBER LENGTH
   - INDIVIDUAL FIBER TRACES FOR COMPLETE FIBER LENGTH
   - LOSSES OF ALL ANOMALIES
   - WAVELENGTH TESTED AND MEASUREMENT DIRECTIONS
   - MANUFACTURER, MODEL NUMBER AND SERIAL NUMBER OF TEST EQUIPMENT
   - NAME, SIGNATURE AND COMPANY TECHNICIAN/ENGINEER
   - TEST EQUIPMENT CALIBRATION CERTIFICATE FOR ALL FIBER TEST EQUIPMENT
   - TEST DATE
7. THE CONTRACTOR SHALL PROVIDE THE TEST RESULTS TO THE CITY INSPECTOR. IF FIBER OPTIC CABLE FAILS TO MEET CABLE TESTING STANDARDS AND ARE NOT APPROVED BY THE CITY, THE CONTRACTOR SHALL REMOVE THE FAILED FIBER OPTIC CABLE AND REPLACE WITH NEW FIBER OPTIC CABLE AT NO ADDITIONAL COST TO THE CITY. NEW FIBER OPTIC CABLE SHALL BE TESTED ACCORDING TO CABLE TESTING REQUIREMENTS IN THESE SPECIAL PROVISIONS.

CONTROLLER COMMUNICATION GENERAL NOTES:

1. THE TRAFFIC SIGNAL CONTROLLER SHALL COMMUNICATE VIA ETHERNET INTERFACE MODULE. IF A NETWORK SWITCH OR ETHERNET OVER COPPER DEVICE IS SPECIFIED, THEN THE TRAFFIC CONTROLLER SHALL HAVE ETHERNET INTERFACE MODULE.
2. CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTION TO PROVIDE COMMUNICATION TO THE CITY OF SACRAMENTO'S TRAFFIC OPERATION CENTER EXCEPT FOR FIBER SPLICES. FIBER SPLICES SHALL BE COMPLETED BY CITY FORCES AND SHALL BE COMPLETED BEFORE SIGNAL TURN ON

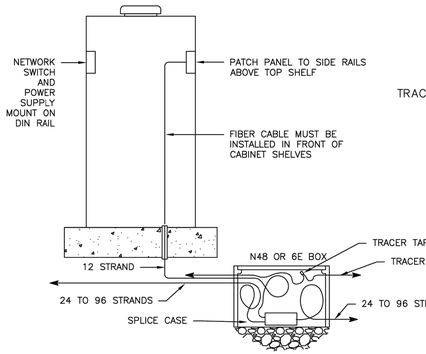
CITY CONTACTS FOR COMMUNICATION & FIBER OPTIC CABLE:

1. CITY OF SACRAMENTO, TRAFFIC OPERATION CENTER, (916) 808-5067
2. CITY OF SACRAMENTO, DEPARTMENT OF INFORMATION TECHONOLGY,(916) 808-8785

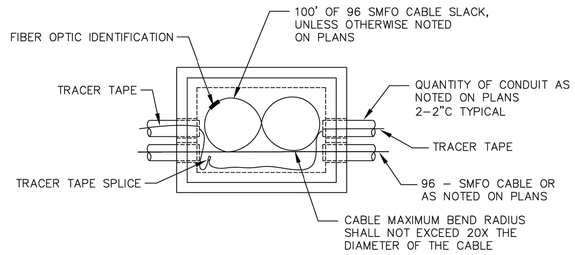
FIBER PATCH PANEL FOR IN-CABINET USE		
DESCRIPTION	PART #	MANUFACTURER
FIBER PATCH PANEL IN 'R' CABINET	SPH-01P WITH 12 STRAND ADAPTER LC PANEL AND SMFO PIGTAIL SPH-CS12-A9-P00RE	CORNING

FIBER PATCH PANEL FOR IN-CABINET USE		
DESCRIPTION	PART #	MANUFACTURER
FIBER PATCH PANEL IN 332 CABINET	CCH-01U (OR CCH-04U) PATCH PANEL (RACK CHANNEL STAND-OFF BRACKET #12309-704) WITH CCH-CS12-A9-P00RE SPLICE CASSETTE STANDARD DENSITY. CCH-CS24-A9-P00RE HIGH DENSITY, IF SPECIFIED.	CORNING

SPLICE CASE		
DESCRIPTION	PART #	MANUFACTURER
SPLICE CASE – DOME CLOSURE 6.5X22	8006877	COYOTE
SPLICE TRAY – LONG LOW-PROFILE FOR UP TO 96 STRAND	80805514	COYOTE
SPLICE CASE – DOME CLOSURE 6.5X17	8006944	COYOTE
SPLICE TRAY – LONG LOW-PROFILE FOR UP TO 48 STRAND	80809958	COYOTE
INLINE RUNT CLOSURE	8006915	COYOTE
SPLICE TRAY FOR UP TO 48 STRAND	80809958	COYOTE



TYPICAL FIBER ROUTING TO CABINET
NO SCALE ver:1.0



N48 VAULT WITH NO SPLICE
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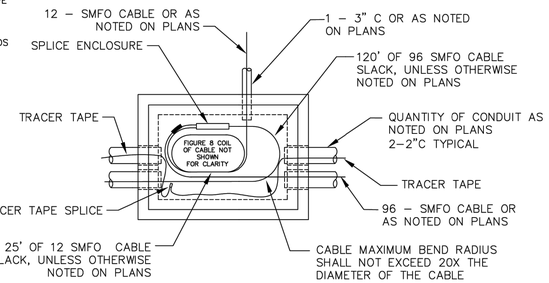

N48 VAULT WITH SPLICE
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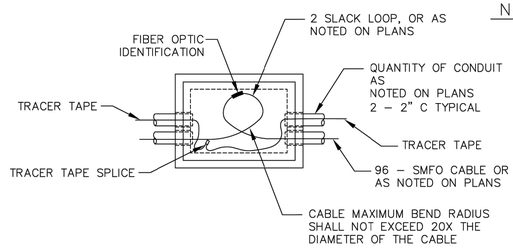
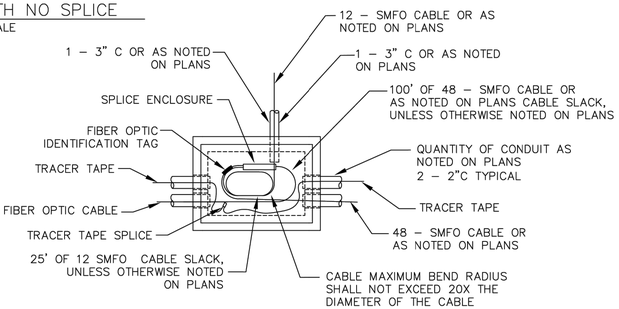


6E PULLBOX WITH NO SPLICE
NO SCALE



6E PULLBOX WITH SPLICE
NO SCALE

APPROVED BY : _____ E-16605 04/07/2025
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER P.E. DATE

CAD FILE:

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION _____

FIELD BOOK N/A

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: STAFF DATE _____
DESIGNED BY: STAFF R.E.E. _____ DATE _____
CHECKED BY: J. MATOBA R.E.E. E-16605 DATE _____

PLANS FOR
FRANKLIN BLVD COMPLETE STREET PHASE 3

FIBER OPTIC DETAILS

PN:
DWG. NO. E-22
SHEET 95 OF 95