

IMPROVEMENT PLANS

RIVER ISLANDS PARKWAY

MANTHEY ROAD TO GOLDEN VALLEY PARKWAY

LATHROP, CALIFORNIA

JULY 2020

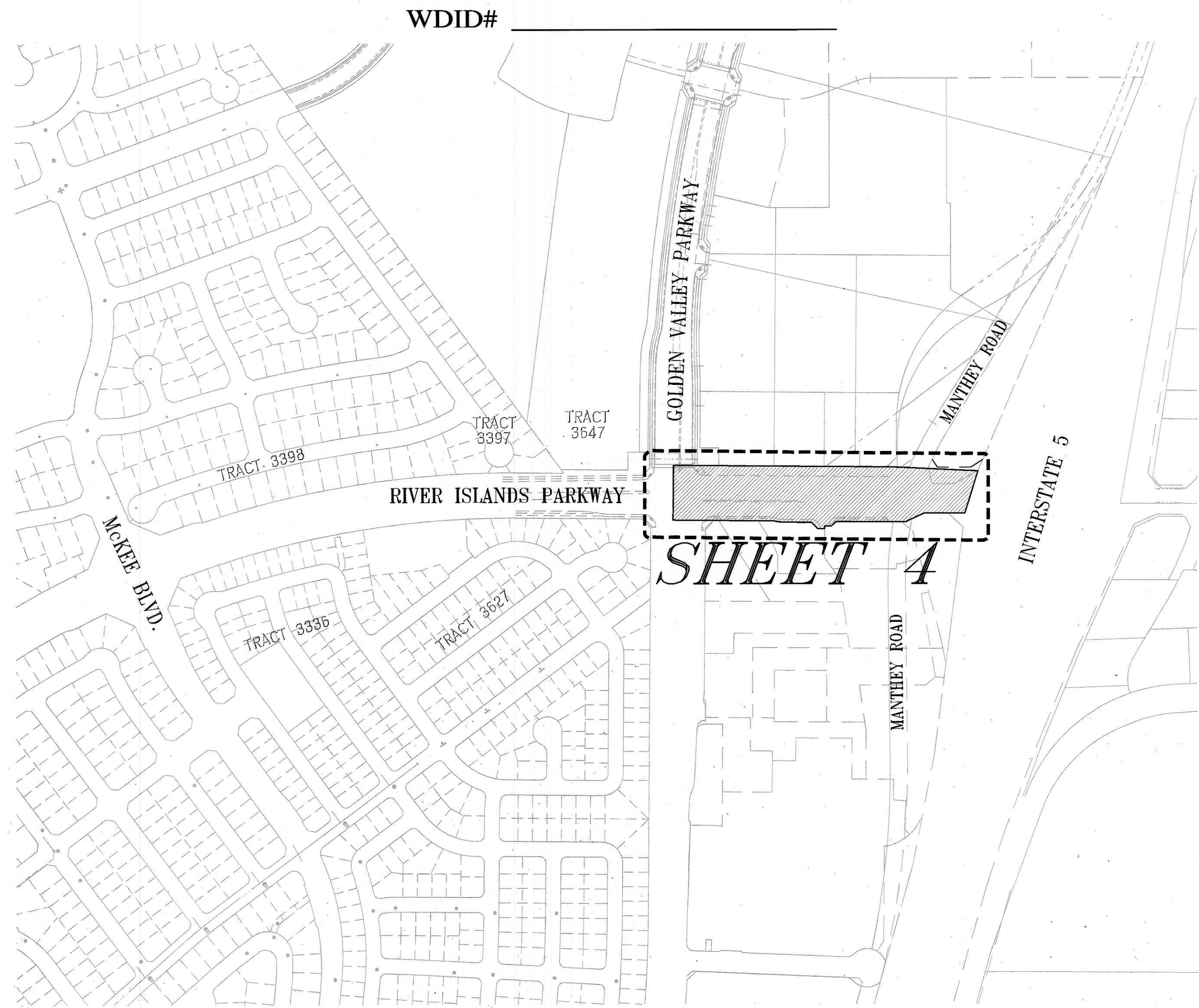
EXISTING	LEGEND DESCRIPTION	PROPOSED
---	RIGHT-OF-WAY/PROPERTY LINE	---
---	BOUNDARY	---
---	CENTERLINE	---
---	FACE OF CURB	---
---	EASEMENT	---
---	WATER LINE AND VALVES	---
---	SANITARY SEWER & MANHOLE	---
---	STORM DRAIN PIPE	---
---	STORM DRAIN PIPE (FORCE MAIN)	---
---	RECYCLED RECLAIMED WATER PIPE	---
---	STORM DRAIN INLET	---
---	WATER SERVICE	---
---	WATER SAMPLING STATION	---
---	FIRE HYDRANT ASSEMBLY	---
---	BLOWOFF	---
---	AIR RELIEF VALVE	---
---	STREET SURVEY MONUMENT	---
---	ELECTROLIER - SEE JOINT TRENCH PLANS	---
---	HANDICAP RAMP PER CITY STD. R10A/B/C	---
---	CURB, GUTTER & SIDEWALK	---
---	EX PAVEMENT	---
---	STREET NAME SIGN	---
---	STREET SIGN	---
---	VALLEY GUTTER	---

CITY STANDARD DETAILS (REFERENCE VERSION 2019)

R-5	CONCRETE CURB, GUTTER AND SIDEWALK CONSTRUCTION SPECIFICATIONS
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W-3	THRUST BLOCK CHART
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W-9	WATER SYSTEM BLOW-OFF
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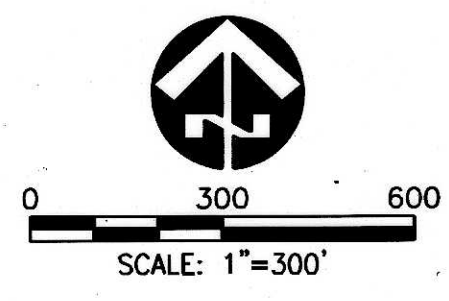
ABBREVIATIONS

AB - AGGREGATE BASE	EVA - EMERGENCY VEHICLE ACCESS	PCC - PORTLAND CEMENT CONCRETE	TBO - TEMPORARY BLOWOFF
AC - ASPHALT CONCRETE	EVC - END VERTICAL CURVE	PERF - PERFORATED	TC - TOP OF CURB
AD - AREA DRAIN	EX - EXISTING	PKWY - PARKWAY	THRU - THROUGH
AP - ANGLE POINT	FC - FACE OF CURB	PL - PROPERTY LINE	TI - TRAFFIC INDEX
APPROX - APPROXIMATE	FG - FINISH GRADE	PR - PROPOSED	TG - TOP OF GRATE
ARV - AIR RELEASE VALVE	FH - FIRE HYDRANT	PP - POWER POLE	TYP - TYPICAL
AVE - AVENUE	FL - FLOWLINE	PRC - POINT OF REVERSE CURVATURE	(W) - WEST
ASTM - AMERICAN SOCIETY OF TESTING MATERIAL	FI - FIELD INLET	PROJ - PROJECT	W - WATER
BC - BEGINNING OF CURVE	FOC - FACE OF CURB	P.T.D.F. - PRESSURE TREATED DOUGLAS FIR	LAT - WATER LATERAL
BEG - BEGIN	FUT - FUTURE	PVC - POLYVINYL CHLORIDE	WM - WATER METER
BFV - BUTTERFLY VALVE	FVT - FULL VEHICULAR TRAFFIC	PVI - POINT OF VERTICAL INTERSECTION	WR - WATER RECLAIMED
BLVD - BOULEVARD	G - GAS	PUE - PUBLIC UTILITY EASEMENT	UDC - URBAN DESIGN CONCEPT
BNDY - BOUNDARY	GB - GRADE BREAK	PVMT - PAVEMENT	VC - VERTICAL CURVE
BOV - BLOWOFF	GND - GROUND	"Q" - FLOW RATE (CUBIC FEET PER SECOND)	VCP - VITRIFIED CLAY PIPE
BVC - BEGIN VERTICAL CURVE	HOPE - HIGH DENSITY POLYETHYLENE	"R" - RESISTANCE	VG - VALLEY GUTTER
C - CURB	HGL - HYDRAULIC GRADE LINE	RCP - REINFORCED CONCRETE PIPE	± - PLUS OR MINUS
C/G - CURB & GUTTER	HP - HIGH POINT	RP - RADIUS POINT	
CB - CATCH BASIN	INV - INVERT	RT - RIGHT	
C/L - CENTERLINE	IRR - IRRIGATION	RWD HDR - REDWOOD HEADERBOARD	
CL - CONSTRUCTION LAYOUT LINE	LF - LINEAR FEET	R/W - RECLAIMED WATER	
CR - CROWN	LP - LOW POINT	R/S - SANITARY SEWER LATERAL	
CFS - CUBIC FEET PER SECOND	LT - LEFT	S - SANITARY SEWER LATERAL	
CY - CUBIC YARD	LTB - LIME TREATED BASE	SJAVPCD - SAN JOAQUIN VALLEY AIR POLLUTION CONSERVATION DISTRICT	
DI - DROP INLET	M - MONUMENT	SNS - STREET NAME SIGN	
DIP - DUCTILE IRON PIPE	MCB - MODIFIED CATCH BASIN	SS - SANITARY SEWERS	
DR - DRIVE	MH - MAINTENANCE HOLE	SSCO - SANITARY SEWER CLEAN OUT	
DR/DWY - DRIVEWAY	MIN - MINIMUM	SS LAT - SANITARY SEWER LATERAL	
(E) - EAST	MID PT - MIDPOINT	SSMH - SANITARY SEWER MANHOLE	
EC - END OF CURVE	MTC - MEDIAN TOP OF CURB	SSFH - SANITARY SEWER FORCED MAIN	
EL - ELEVATION	MUTCD - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	STD - STANDARD	
ELB - ELBOW	(N) - NORTH	STA - STATION	
ELECT - ELECTROLIER	NAP - NOT A PART	STLT - STREET LIGHT	
EP - EDGE OF PAVEMENT	NTS - NOT TO SCALE	SVC - SERVICES	
ER - END OF RETURN	P - PAD	SW, S/W - SIDEWALK	
	PBO - PERMANENT BLOW-OFF	TB - TOP OF BERM	



SITE INDEX

SCALE: 1" = 300'



CITY BENCH MARK:
 C. & G. S. BENCH MARK DISK STAMPED S 995 1965, 1.6 MILES SOUTH ALONG THE SOUTHERN PACIFIC RAILROAD FROM THE OLD STATION AT LATHROP, 1.0 MILE NORTHEAST OF THE BENCH MARK M 934, NEAR THE WEST END OF VIERRA AVENUE, 46.0 FEET NORTHWEST OF THE NORTHWEST RAIL, 212 FEET NORTHEAST OF THE CENTERLINE OF THE AVENUE, 40 FEET SOUTHWEST OF THE CENTERLINE OF HOWLAND ROAD, 1 FOOT NORTHEAST OF MILE POLE 80, 1.0 FOOT SOUTHWEST OF A WITNESS POST, ABOUT 2 FEET LOWER THAN THE TRACK, A SET IN THE TOP OF A CONCRETE POST PROJECTION 0.3 FOOT ABOVE THE GROUND. ELEVATION = 12.133



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

WARNING • CAUTION

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

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

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property, that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

CHRISTIAN T. RAGAN
 RCE #60473



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL
			APPROVED BY DATE



PLANS PREPARED UNDER THE DIRECTION OF:

By: *Christian T. Ragan*
 CHRISTIAN T. RAGAN (RCE No. 60473)

CONSULTANTS:

ENGINEER:
 MACKAY & SOMPS CIVIL ENGINEERS
 5142 FRANKLIN DRIVE, SUITE B
 PLEASANTON, CA 94588-3368
 CONTACT: COLETTE L'HEUREUX
 CLHEUREUX@MCSCE.COM
 (925) 225-0690

SOILS ENGINEER:
 ENGeo INCORPORATED
 17278 GOLDEN VALLEY PARKWAY
 LATHROP, CA 95330
 CONTACT STEVE HARRIS
 (209) 835-0610

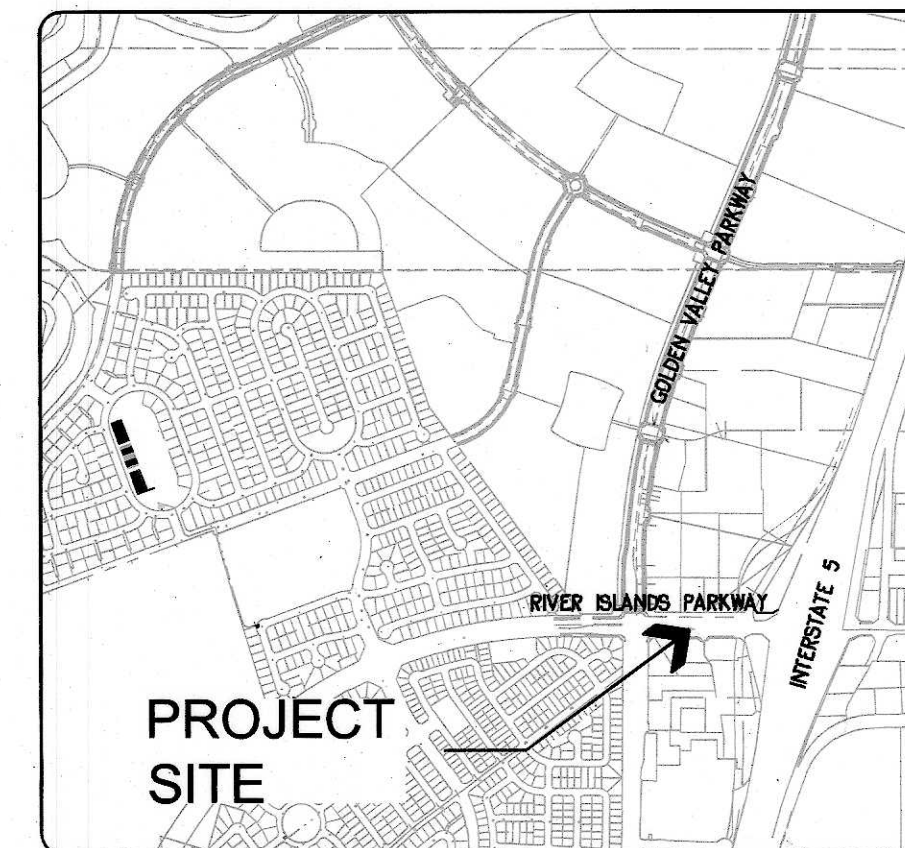
JOINT TRENCH:
 GIACALONE DESIGN SERVICES, INC.
 5820 STONERIDGE MALL ROAD #345
 PLEASANTON, CA 94588
 (925) 467-1740

AGENCIES:

CITY:
 CITY OF LATHROP
 390 TOWNE CENTRE DRIVE
 LATHROP, CA 95330
 (209) 941-7438

FIRE DEPARTMENT:
 800 EAST J STREET
 LATHROP, CA 95330
 (209) 858-2860

POLICE DEPARTMENT:
 16775 HOWLAND ROAD, SUITE 1
 LATHROP, CA 95330
 (209) 858-2860



PROJECT SITE

VICINITY MAP

NOT TO SCALE



SHEET INDEX

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C3	SECTIONS AND DETAILS
C4	DEMOLITION AND RELOCATION PLAN
C5	PLAN AND PROFILE
C6	MEDIAN AND CURB DETAILS
C7	EROSION CONTROL
T-1	TITLE SHEET
TS-1	TRAFFIC SIGNAL MODIFICATION PLAN
TS-2	CONDUCTOR AND EQUIPMENT SCHEDULES
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JT1	JOINT TRENCH COMPOSITE TITLE SHEET
JT2	JOINT TRENCH GENERAL NOTES & DETAILS
JT3	JOINT TRENCH SECTIONS & DETAILS
JT4	JOINT TRENCH COMPOSITE PLAN
JT5	JOINT TRENCH COMPOSITE PLAN
PuSL1	STREET LIGHTING TITLE SHEET
PuSL2	STREET LIGHTING SITE PLAN
PuSL3	STREET LIGHTING SITE PLAN

GEOTECHNICAL ENGINEER	
<i>[Signature]</i>	07/21/2020
DATE	
ENGeo, INC LATHROP, CALIFORNIA	
LATHROP-MANTECA FIRE DISTRICT	
APPROVED BY: <i>[Signature]</i>	DATE: 7-23-2020
FIRE MARSHAL	
CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	
APPROVED BY: <i>[Signature]</i>	DATE: 7-23-2020
PUBLIC WORKS DIRECTOR	
CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	
APPROVED BY: <i>[Signature]</i>	DATE: 7-23-2020
RCE NO: 34681	
CITY ENGINEER	
EXP DATE: 9-30-21	

RIVER ISLANDS PARKWAY

COVER SHEET

DEPARTMENT OF PUBLIC WORKS
 CITY OF LATHROP, CALIFORNIA

DATE: JULY 2020	RECOMMENDED FOR APPROVAL BY: _____	PROJECT NO. 25228.RIP.D
SCALE: NONE	DATE: _____	SHEET NO. C1
DRAWN BY: EML		
DESIGNED BY: CML		
CHECKED BY: CTR		
CITY OF LATHROP		SHEET 1 OF 2

CITY STANDARD NOTES:

- A. THESE PLANS HAVE BEEN CHECKED BY THE CITY OF LATHROP AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.
B. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY THE CITY PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
C. ALL CONSTRUCTION AND MATERIAL SHALL CONFORM TO CITY OF LATHROP DESIGN AND CONSTRUCTION STANDARDS, THE PROJECT URBAN DESIGN CONCEPT (IF APPLICABLE), AND PER THE APPROVED PLANS. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT. CONTACT PUBLIC WORKS CONSTRUCTION INSPECTION AT (209) 941-7450, AT LEAST THREE (3) WORKING DAYS PRIOR TO START OF ANY WORK TO ARRANGE FOR INSPECTION.
D. NOTIFY UNDERGROUND SERVICE ALERT (USA -NORTH) AT "811" OR (800) 227- 2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.
E. IF NECESSARY TO CONFIRM FIELD LOCATIONS OF FACILITIES, EXPLORATORY TRENCHING OR POTHOLING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR
F. IF A CONFLICT OCCURS BETWEEN THE CITY OF LATHROP DESIGN AND CONSTRUCTION STANDARDS AND THE RECOMMENDATIONS BY THE DESIGN ENGINEER AND/OR SOILS ENGINEER, THE MORE STRINGENT SHALL APPLY AS DIRECTED BY THE CITY ENGINEER.
G. BASIS OF ELEVATION DATUM SHOWN ON COVER SHEET.
H. THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITY AGENCIES AND THE CITY OF LATHROP HAVE BEEN NOTIFIED AND HAVE MARKED THEIR FACILITIES IN THE FIELD.
I. EXISTING UTILITIES SHALL NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE APPROPRIATE AGENCIES AND UTILITY COMPANIES.
J. FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE CITY RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT THE SPECIFIC APPROVAL OF THE CITY ENGINEER.
K. ALL UTILITY TRENCHES IN EXISTING ROADWAY SHALL BE BACKFILLED AND OPENED TO PUBLIC TRAFFIC FOR A MINIMUM OF TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT.
L. ALL CONSTRUCTION STAKING FOR GRADING, CURB, AND GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAINS, WATER LINES, RECYCLED WATER, FIRE HYDRANTS, ELECTROLYERS, ETC. SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR.
M. ALL AREAS UNDERGOING GRADING, AND ALL OTHER CONSTRUCTION ACTIVITIES SHALL BE WATERED, OR OTHER DUST-PALLIATIVE MEASURES USED, TO PREVENT DUST, AS CONDITIONS WARRANT. WATER TRUCKS SHALL BE AVAILABLE AT ALL TIMES. THE PERSON RESPONSIBLE FOR DUST CONTROL SHALL BE AVAILABLE 24 HOURS A DAY.
N. PRIOR TO RECEIVING/TAKING ANY WATER FROM THE CITY OF LATHROP WATER SYSTEM THE CONTRACTOR SHALL ACQUIRE A CITY WATER METER OR CITY FIRE HYDRANT METER. ALL WATER USAGE SHALL BE METERED.
O. ALL LINES ABANDONED DURING CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
P. PRIOR TO TRENCHING FOR ANY SEWER, WATER, RECYCLED WATER, OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND THE LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING. ANY DAMAGE CAUSED BY TRENCHING TO EXISTING UNDERGROUND UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
Q. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH CITY STANDARD DETAILS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING, OR JETTING SHALL BE PERMITTED.
R. TESTING:
1. ALL INDEPENDENT LABORATORY INSPECTIONS CALLED FOR BY THE CITY ENGINEER WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
2. ROADWAY SUB-GRADE, SUB-BASE, BASE, AND TRENCH BACKFILL COMPACTION TESTING SHALL BE PERFORMED BY A SOILS LAB CONTRACTING WITH THE CITY OF LATHROP AT THE DEVELOPER'S EXPENSE.
3. R-VALUE TESTING OF THE PAVEMENT SUB-GRADE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF BASE ROCK, OR AS REQUIRED BY THE CITY ENGINEER.
4. A MINIMUM OF 48 HOURS' NOTICE IS REQUIRED TO SCHEDULE ALL SPECIAL INSPECTION/TESTING SERVICES.

CITY STANDARD NOTES CONTINUED:

- S. ASBESTOS CEMENT PIPE (ACP) OR VITRIFIED CLAY PIPE (VCP) OR FITTINGS SHALL NOT BE USED WITHIN THE CITY OF LATHROP.
T. EXISTING CURB, GUTTER AND SIDEWALKS WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, SHALL BE REPAIRED OR REPLACED PER THE CITY DESIGN AND CONSTRUCTION STANDARDS BY THE CONTRACTOR.
U. NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE IMPROVEMENT PLANS. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED AND PROPERLY TREATED AND SEALED. THE DRIP LINE OF TREES TO BE SAVED WILL BE FENCED, AND NO GRADING SHALL TAKE PLACE WITHIN THIS FENCED AREA.
V. THE FULL STRUCTURAL SECTION OF THE MAJOR STREETS SHALL BE CONTINUED THROUGH THE INTERSECTIONS.
W. BENCHMARKS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS SHOWN. THE DEVELOPER'S ENGINEERS SHALL STAMP THE BENCHMARKS PER STANDARD DETAIL R-26 AND FURNISH THE CITY ENGINEER WITH THE BENCHMARK ELEVATION DATA.
X. STREET SIGNS SHALL BE INSTALLED AT ALL INTERSECTIONS THAT MEET THE UDC STANDARDS (IF APPLICABLE) PER CITY DESIGN AND CONSTRUCTION STANDARDS.
Y. TRAFFIC CONTROL DEVICES AND INSTALLATIONS SHALL BE IN CONFORMANCE WITH CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND MUST MEET THE UDC STANDARDS (IF APPLICABLE).
Z. ALL STREET MONUMENTS, LOT CORNER, BENCHMARKS AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER OR SURVEYOR PRIOR TO ACCEPTANCE OF IMPROVEMENTS BY THE CITY.
IF A MONUMENT IS LOCATED WITHIN THE BOUNDARY OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "PRE- CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY DURING THE ENCROACHMENT PERMIT APPLICATION PHASE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "POST- CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY WHEN THE WORK IS COMPLETE.
AA. ESCPS MUST BE PREPARED CONFORM TO THE CITY'S DESIGN AND CONSTRUCTION STANDARDS AND ORDINANCES. SWPPPS MUST BE PREPARED BY A QUALIFIED SWPPP DEVELOPER AND BE COMPLIANT WITH THE STATE'S CONSTRUCTION GENERAL PERMIT. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES DURING THE CONSTRUCTION PROJECT UNTIL FINAL SITE STABILIZATION IS ACHIEVED. THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THE FACILITIES SHALL BE AVAILABLE 24 HOURS A DAY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SEDIMENT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SEDIMENT-FREE STORM WATER INTO EXISTING STORM DRAIN FACILITIES.
BB. IF THE PROJECT IS APPLICABLE TO THE STATE'S CONSTRUCTION GENERAL PERMIT, A NOTICE OF INTENT (NOI) TO COMPLY WITH THE NPDES GENERAL PERMIT FOR STORMWATER RUN-OFF ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL BE SUBMITTED TO THE SWRCB VIA THE STATE'S SMARTS SYSTEM. THE WDI# SHOULD BE INDICATED ON THE PLANS. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.
CC. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AN ARCHAEOLOGIST CONSULTED AND THE CITY COMMUNITY DEVELOPMENT DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES, AS MAY BE REQUIRED BY THE COMMUNITY DEVELOPMENT DIRECTOR, SHALL BE TAKEN TO PROTECT THEM.
DD. WORK SHALL BE RESTRICTED TO WEEKDAYS BETWEEN 8:00 AM TO 5:00 PM AND WEEKENDS BY CITY APPROVAL. WORK WHICH REQUIRES ANY TRAFFIC LANE CLOSURES OR RESTRICTING OF THE TRAVELED WAY SHALL BE LIMITED TO 9:00 AM TO 3:30 PM IN THE COMMUTE DIRECTION AND 8:00 AM TO 4:30 PM IN THE NON-COMMUTE DIRECTION.
EE. THE OVERTIME COST FOR INSPECTING WORK PERFORMED BEFORE 8:00 AM, AFTER 5:00 PM, WEEKENDS, AND HOLIDAYS, THAT REQUIRE CITY INSPECTION, SHALL BE PRE- PAID BY THE CONTRACTOR OR DEVELOPER BEFORE THE WORK IS AUTHORIZED.
FF. CONSTRUCTION EQUIPMENT WHICH OPERATES AT A NOISE LEVEL IN EXCESS OF 85 DECIBELS (MEASURED ON THE A-WEIGHTED SCALE DEFINED IN ANSI S-1.4) AT A DISTANCE OF 100 FEET FROM THE EQUIPMENT IS PROHIBITED.
GG. THE CONTRACTOR SHALL KEEP EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 2 FEET BELOW BOTTOM OF EXCAVATIONS TO MAINTAIN AN UNDISTURBED STATE OF NATURAL SOILS AND ALLOW PLACEMENT OF FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL NOT DAMAGE PROPERTY OR CREATE A PUBLIC NUISANCE. CONTRACTOR SHALL DETERMINE METHOD OF DEWATERING AND LOCATION FOR DISCHARGE/DISPOSAL.
HH. DISPOSAL OF WATER INTO THE CITY SANITARY SEWER SYSTEM IS STRICTLY PROHIBITED.
II. DISPOSAL OF WATER INTO THE EXISTING STORM DRAIN SYSTEM MUST BE APPROVED IN WRITING BY THE CITY ENGINEER PRIOR TO DISPOSAL.

CITY STANDARD NOTES CONTINUED:

- JJ. CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT- OF-WAYS IN A CLEAN, SAFE, AND USABLE CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. ALL SPILLAGE OF SOIL, ROCK, CONSTRUCTION DEBRIS, ETC., SHALL BE REMOVED IMMEDIATELY FROM PUBLICLY OWNED PROPERTY. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION. THE CONTRACTOR SHALL PROVIDE FOR SAFE, UNOBSTRUCTED ACCESS TO PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TO THE PUBLIC WORKS DEPARTMENT THE NAME AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON AVAILABLE 24 HOURS A DAY IF ANY PROBLEMS OR CONDITIONS ARE NOT MET.
KK. ALL TRASH, CONSTRUCTION DEBRIS AND MATERIALS SHALL BE CONTAINED WITHIN PROPER CONTAINERS AND REMOVED ON A WEEKLY BASIS.
LL. THE CONTRACTOR SHALL KEEP ADJOINING PUBLIC STREETS AND PARKING AREAS FREE AND CLEAN OF PROJECT DIRT, MUD, AND MATERIALS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIVE MEASURES AS DIRECTED BY THE PUBLIC WORKS INSPECTOR AT NO EXPENSE TO THE CITY.
MM. A BUILDING PERMIT IS REQUIRED FOR CONSTRUCTION OF ALL RETAINING WALLS OVER 4 FEET IN HEIGHT MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL. PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS AS COMPLETE, VERIFICATION THAT BUILDING INSPECTION HAS SIGNED OFF ON THE PERMIT SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR. ALL WOOD IN CONTACT WITH THE GROUND SHALL BE PRESSURE-TREATED, WHETHER A CONSTRUCTION PERMIT IS REQUIRED OR NOT.
NN. THE MANNER OF BRACING AND SHORING EXCAVATIONS SHALL BE AS SET FORTH IN THE RULES, ORDERS AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY.
OO. CONTRACTORS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER TO PROVIDE DRAWINGS OR CALCULATIONS BY A REGISTERED ENGINEER FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION FOR SPECIALLY DESIGNED BRACING AND SHORING OF AN EXCAVATION WHERE STANDARD PRE-MANUFACTURED BRACING OR SHORING CANNOT BE USED.
PP. CONTRACTORS SHALL SUBMIT A COPY OF THEIR CURRENT ANNUAL EXCAVATION PERMIT ISSUED BY THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY (CAL-OSHA) ALONG WITH THE CONTRACTOR'S OWN TRENCH SAFETY PLAN PRIOR TO THE START OF CONSTRUCTION.
QQ. PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL ATTEND A PRELIMINARY CONSTRUCTION MEETING WITH THE CITY OF LATHROP. THE CONTRACTOR SHALL PROVIDE THE CITY OF LATHROP 72 HOURS' NOTICE TO SCHEDULE THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL ALSO NOTIFY THE PROJECT CONTACTS LISTED ON SHEET C1 A MINIMUM OF 72 HOURS IN ADVANCE OF SAID MEETING.
STORM DRAIN NOTES:
A. ALL PUBLIC STORM DRAIN LINES SHALL BE CLASS III OR HIGHER CLASS RCP OR POLYPROPYLENE PIPE TYPE "S" UP TO 36" UNLESS OTHERWISE SPECIFIED ON THE PLANS.
1. ALL PRE-CAST RCP SHALL BE OF WET CAST TYPE CONSTRUCTION. USE RUBBER GASKETED JOINTS CONFORMING TO THE REQUIREMENTS OF ASTM DESIGNATIONS C-76 AND C-443 AND SECTION 3 OF THE DESIGN AND CONSTRUCTION STANDARDS. ALTERNATIVE PIPE MATERIALS WILL BE EVALUATED ON A CASE-BY-CASE BASIS AND MUST BE PRE-APPROVED.
2. ALL POLYPROPYLENE PIPE SHALL BE DUAL WALL, TYPE "S" UP TO 36" MATERIAL FOR 12" - 36" PIPE AND FITTING PRODUCTION SHALL BE AN IMPACT MODIFIED COPOLYMER MEETING THE MATERIAL REQUIREMENTS OF ASTM F2764. FITTINGS SHALL BE BELL-AND-SPIGOT MEETING WATERTIGHT JOINT PERFORMANCE AND SHALL MEET REQUIREMENTS OF ASTM D3212. GASKETED BELL & SPIGOT CONNECTIONS SHALL UTILIZE A SPUN-ON, WELDED OR INTEGRAL BELL AND SPIGOT WITH GASKET MEETING ASTM F477.
a. INSTALLATION: POLYPROPYLENE PIPE SHALL MEET STANDARD DETAIL R-28A FOR STORM DRAIN FLEXIBLE PIPE. FITTINGS SHALL BE LAID TO FORM A CLOSED CONCENTRIC JOINT WITH ADJOINING PIPE TO AVOID SUDDEN OFFSETS OF THE FLOW LINE. PIPE SECTIONS SHALL BE JOINED IN A WAY THAT THEY MEET OR EXCEED PERFORMANCE STANDARDS FOUND IN ASTM F2764.
b. BACKFILL AND COMPACTION: FOLLOW STANDARD PLAN R-28A TO R-28D FOR FLEXIBLE PIPE FOR STORM DRAINAGE APPLICATIONS. APPROPRIATE COMPACTION METHODS SHALL BE UTILIZED IN ORDER TO UNIFORMLY COMPACT BACKFILL TO SPECIFIED DENSITIES. INAPPROPRIATE OR EXCESSIVE COMPACTION MAY DAMAGE THE PIPE AND DISTURB LINE AND GRADE. EACH LAYER SHALL BE UNIFORMLY COMPACTED WITH MECHANICAL MEANS AND GUIDELINES FOR FLEXIBLE PIPE. BEDDING, SHADING AND HAUNCH FOR FLEXIBLE PIPE SHALL BE 3/8 X DUST OR ALTERNATIVE APPROVED BY SENIOR CONSTRUCTION MANAGER.
c. STORAGE AND HANDLING: STORE PIPES AND FITTINGS IN A WAY THAT PROTECTS GASKETS FROM WEATHER. PROTECT THE BELL END OF PIPES FROM DAMAGE. IF STACKED, TAKE MEASURES TO ENSURE LOWER PIPES ARE NOT DAMAGED FROM EXCESSIVE WEIGHT. COVER PIPES TO PROVIDE TEMPORARY SUN BLOCK, DO NOT STORE GASKETS NEAR ELECTRICAL OR EXHAUST HEAT SOURCES.

STORM DRAIN NOTES CONTINUED:

- d. THE CITY WILL REJECT PIPES WITH CRACKS OR SPLIT GASKETS.
B. UNLESS NOTED OTHERWISE, ALL STORM DRAIN MANHOLES ARE TYPE I (PER STD. DETAIL D-10) AND ALL CURB INLETS SHALL BE TYPE I INLETS (SEE STD. DETAIL D-6A) OR TYPE II (SEE STD. DETAIL D-7). "SANTA ROSA" STYLE INLETS, WHICH HAVE A GRATELESS INLET, SHALL ONLY BE USED WITH APPROVAL FROM THE CITY ENGINEER. A SADDLE MANHOLE (SEE STANDARD DETAIL D-12) SHALL BE USED FOR ALL PIPES GREATER THAN 24" IN DIAMETER.
C. ALL STORM DRAIN INLETS SHALL BE LABELED PER STANDARD DETAIL D-6B "NO DUMPING - FLOWS TO RIVER" USING AN APPROVED METHOD.
D. STORM DRAIN CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 3 OF THE DESIGN AND CONSTRUCTION STANDARDS AND THE STANDARD DETAILS.
E. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TESTING OF STORM DRAIN FACILITIES. CONTRACTOR SHALL CLEAN, FLUSH AND PROVIDE VIDEO INSPECTION OF ALL STORM DRAIN LINES TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.
F. ALL FIELD INLETS TO BE TYPE I INLETS WITH FLAT GRATE PER CITY STANDARD D-6A.

STREET NOTES:

- A. PRIOR TO PLACING CURB AND GUTTER, SIDEWALK, ASPHALT CONCRETE, SUBBASE, OR BASE MATERIAL, ALL UNDERGROUND FACILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE PUBLIC WORKS DEPARTMENT CONSTRUCTION INSPECTION DIVISION NOTIFIED THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREAS.
B. WHEN WIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE SAW CUT TO A NEAT LINE, NOT LOCATED IN THE WHEEL PATH OF VEHICLE TRAFFIC, AND REMOVED BACK TO AN EXISTING SOUND STRUCTURAL SECTION AS DETERMINED BY THE CITY ENGINEER. AN EXPLORATORY TRENCH, OR POTHOLING, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.
C. STREET STRIPING SHALL INCLUDE STOP BARS, CENTERLINE STRIPING OR MARKERS, CROSSWALKS AND ALL OTHER MARKINGS REQUIRED BY THE CITY ENGINEER. ALL STRIPING SHALL BE DONE WITH THERMOPLASTIC AND REFLECTIVE MARKERS. ALL STRIPING SHALL BE CAT-TRACKED PRIOR TO FINAL INSTALLATION. FINAL INSTALLATION OF STRIPING WILL BE ALLOWED ONLY AFTER APPROVAL OF THE STRIPING LAYOUT BY THE CONSTRUCTION INSPECTOR.
D. THE THICKNESS OF SUBBASE, BASE, AND SURFACING SHALL BE AS APPROVED ON THESE PLANS.
E. FOG SEAL OF ASPHALTIC CONCRETE. THE TYPE OF FOG SEAL USED SHALL BE PER SECTION 37 OF CALTRANS STANDARD SPECIFICATIONS LATEST EDITION AND APPROVED BY THE CITY OF LATHROP PRIOR TO USE.
F. OMITTED.
G. ALL TERMINATED STREETS WITHOUT CUL-DE-SACS SHALL HAVE A BARRICADE INSTALLED IN ACCORDANCE WITH STANDARD DETAIL R-24 OF THE STANDARD DETAILS.
H. ALL MANHOLE RIMS, LAMPHOUSES, VALVES, AND MONUMENT BOXES, ETC. SHALL BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING BY THE UNDERGROUND CONTRACTOR AFTER THE FINAL PAVING COURSE IS PLACED, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR MANHOLES.
I. THE CONTRACTOR SHALL PROTECT ALL EXISTING MONUMENTS AND HAVE THE ENGINEER/LAND SURVEYOR TIE OUT BEFORE THE SETTING OF ALL NEW MONUMENTS. ALL SURVEY MONUMENT WELLS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS SHOWN. DEVELOPER'S ENGINEER/LAND SURVEYOR SHALL SET AND STAMP ALL MONUMENTS AND FURNISH THE CITY ENGINEER WITH A COPY OF A TIE PLAT FOR EACH MONUMENT.
J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND/OR OTHER SURVEY MONUMENTS AND SHALL NOTIFY THE CITY ENGINEER OF ANY DAMAGED OR REMOVED CITY, COUNTY, STATE OR FEDERAL MONUMENTS.

IF A MONUMENT IS LOCATED WITHIN THE BOUNDARY OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "PRE- CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THE CITY OF LATHROP STANDARDS, TO THE CITY DURING THE ENCROACHMENT PERMIT APPLICATION PHASE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "POST-CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY WHEN THE WORK IS COMPLETE.

- K. UTILITY BOXES SET IN PAVED STREETS SHALL HAVE H-20 TRAFFIC RATING LIDS.

SANITARY SEWER NOTES:

- A. SANITARY SEWER CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 5 OF THE DESIGN AND CONSTRUCTION STANDARDS AND THE STANDARD DETAILS.
B. SEWER SERVICE LATERALS SHALL BE 4-INCHES MINIMUM INSIDE DIAMETER. SEWER SERVICE LATERALS SHALL BE LOCATED AND CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL S-7A.
C. THE LOCATION OF SEWER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "S" STAMPED ON THE TOP OF CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE CURB MARKING IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "S" FOR ALL SEWER SERVICES, PRIOR TO PLACING ANY SIDEWALK OR CURB & GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS AND SEWER LATERALS BEFORE POURING THE CURB, AND FURNISH DATA TO THE CITY'S CONSTRUCTION INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "S" TO BE STAMPED IN HIS WORK, PRIOR TO FINAL TROWELING OF THE CONCRETE. THE CITY OF LATHROP'S CONSTRUCTION INSPECTOR SHALL DETERMINE THAT THE LETTER "S" HAS BEEN STAMPED IN THE PROPER LOCATION.
D. ALL SANITARY SEWER MAINS SHALL PASS A LEAKAGE TEST IN CONFORMANCE WITH SECTION 5 OF THE DESIGN AND CONSTRUCTION STANDARDS, AND THE STANDARD DETAILS, FLUSHED WITH AN APPROVED SEWER BALL, MANDREL TESTED AND TELEVISION INSPECTED (TAPES OR OTHER APPROVED MEDIA SHALL BE GIVEN TO THE CITY ENGINEER) PRIOR TO ACCEPTANCE BY THE CITY. ALL TESTING SHALL BE PERFORMED AFTER THE COMPACTION FOR STREET BASE ROCK AND PRIOR TO PAVING.

WATER NOTES:

- A. WATER LINES SHALL BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM SEWER MAINS. CROSSING SHALL MEET STATE HEALTH STANDARDS. SEWER LINE NEEDS TO BE ONE (1) FOOT BELOW WATER LINE.
B. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TESTING AND DISINFECTING OF WATER LINES IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF LATHROP PRIOR TO FINAL ACCEPTANCE. ALL WATER LINES SHALL BE PRESSURE-TESTED, DISINFECTED, FLUSHED, AND TESTED FOR BACTERIA IN CONFORMANCE WITH SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS PRIOR TO FINAL ACCEPTANCE BY THE CITY. THE MAXIMUM LENGTH OF PIPELINE TO BE TESTED AT A TIME SHALL BE LIMITED TO 5,000 FEET. ALL NEW VALVES SHALL BE EXERCISED DURING THE PRESSURE TEST.
C. ACTUAL CONNECTIONS TO EXISTING CITY OF LATHROP WATER LINES WILL NOT BE PERMITTED PRIOR TO COMPLETION OF STERILIZATION AND TESTING OF THE WATER MAINS. ALL EXISTING WATER VALVES ARE TO BE OPERATED UNDER THE DIRECTION OF AUTHORIZED CITY OF LATHROP PERSONNEL ONLY.
D. WATER SERVICES SHALL BE AS PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.
E. THE LOCATION OF WATER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "W" STAMPED ON THE TOP CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE MARKS IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "W" FOR ALL WATER SERVICES, PRIOR TO THE PLACING OF ANY SIDEWALK OR CURB AND GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS AND WATER SERVICES BEFORE POURING THE CURB, AND FURNISH DATA TO THE CITY OF LATHROP'S FIELD INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "W" TO BE STAMPED IN THE CURB. PRIOR TO THE FINAL TROWELING OF THE CONCRETE, THE CITY OF LATHROP'S CONSTRUCTION INSPECTOR SHALL VERIFY THAT THE LETTER "W" HAS BEEN STAMPED IN THE PROPER LOCATION.
F. THE TYPICAL ANGLE METER STOP AT THE END OF THE WATER SERVICE SHALL BE PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.
G. ALL CONSTRUCTION WATER SHALL BE PURCHASED FROM THE CITY OF LATHROP AND SHALL BE METERED BY USE OF A CITY HYDRANT METER.
H. ALL DEAD ENDS, CAPPED OR FLANGED, INCLUDING FUTURE SERVICE STUBS, TEES, ELBOW BENDS AND BLOW-OFFS, TEMPORARY OR PERMANENT, SHALL HAVE THRUST BLOCKS INSTALLED AS PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS, AND PER STANDARD DETAILS FOR WATER, OTHERWISE MEGALUGO JOINT RESTRAINTS MUST BE PROVIDED.
I. FIRE HYDRANTS TEES ARE TO BE PLACED AT LOCATIONS APPROVED BY THE FIRE DISTRICT OR AS SHOWN ON THE PLANS.

WATER NOTES CONTINUED:

- J. FLANGE JOINTS ARE REQUIRED WHEN INSTALLING FOUR INCH (4") AND LARGER LINE VALVES IN STEEL PIPE. NO OTHER TYPE OF JOINT SHALL BE USED WITHOUT SPECIFIC APPROVAL OF THE CITY ENGINEER.
K. ALL CONNECTIONS AND SERVICE TAPS TO EXISTING CITY OF LATHROP MAINS SHALL BE MADE WITHOUT DEPRESSURIZING THE MAIN, UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER.
L. FIRE HYDRANTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.
M. ALL NUT/BOLT KITS TO BE INSTALLED BELOW GRADE SHALL BE 316 GRADE STAINLESS STEEL.
N. ALL HYDRANTS SHALL BE NUMBERED ON THE PLANS USING NOMENCLATURE APPROVED BY THE PUBLIC WORKS DIRECTOR.

RECYCLED WATER NOTES:

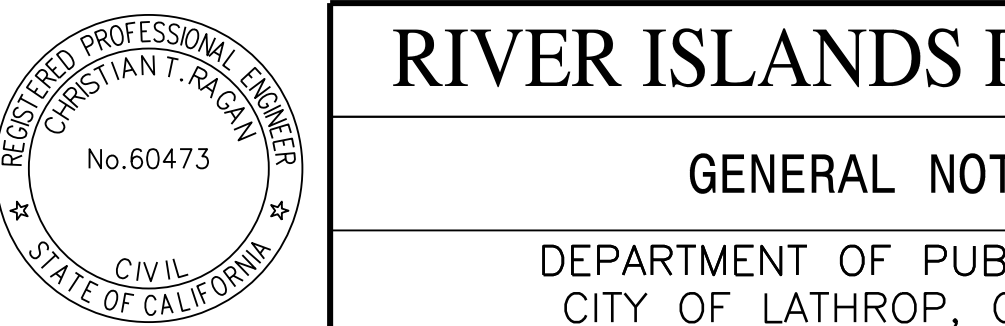
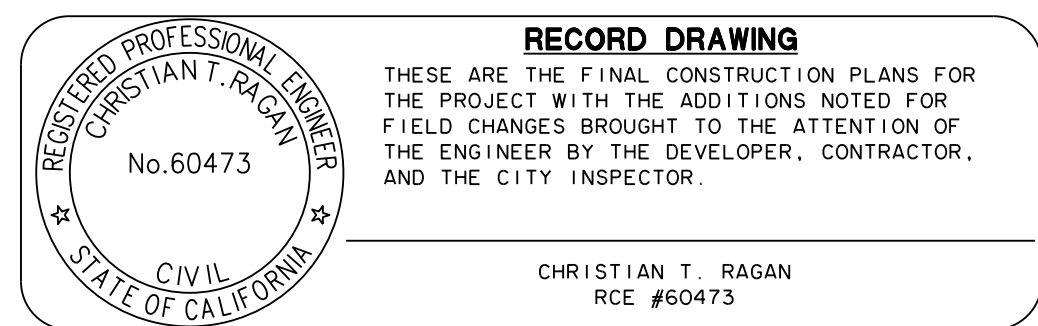
- A. ALL RECYCLED WATER CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH SECTION 7 OF THE DESIGN AND CONSTRUCTION STANDARDS AND THE STANDARD DETAILS.
B. THE LOCATION OF RECYCLED WATER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTERS "RW" STAMPED ON THE TOP OF THE CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE MARKS IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTERS "RW" FOR ALL RECYCLED WATER SERVICES, PRIOR TO THE PLACING OF ANY SIDEWALK OR CURB AND GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS AND RECYCLED WATER SERVICES BEFORE POURING THE CURB, AND FURNISH DATA TO THE CITY OF LATHROP'S FIELD INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTERS "RW" TO BE STAMPED IN THE CURB. PRIOR TO THE FINAL TROWELING OF THE CONCRETE, THE CITY OF LATHROP'S CONSTRUCTION INSPECTOR SHALL VERIFY THAT THE LETTERS "RW" HAVE BEEN STAMPED IN THE PROPER LOCATION.

SIGNAL INTERCONNECT CONDUIT NOTES:

- A. CONTRACTOR SHALL FURNISH AND PLACE ONE (1) SIGNAL INTERCONNECT CONDUIT (SIG) ON ALL ARTERIAL STREETS FOR FUTURE USE BY THE CITY FOR TRAFFIC SIGNAL INTERCONNECT.
B. CONDUIT SHALL BE 2-INCH SCHEDULE 40 PVC, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
C. CONDUIT SHALL HAVE 30-INCH MINIMUM COVER.
D. PULL BOXES SHALL CONFORM TO CALTRANS STANDARD PLANS. PULL BOX COVERS SHALL BE MARKED AS SHOWN ON THE PLANS.
E. TRENCH RESTORATION SHALL COMPLY WITH THE CITY OF LATHROP STANDARD DETAILS.

SPECIAL NOTES:

- A. EXISTING STREETS THAT REQUIRE RECONSTRUCTION AS A RESULT OF THE CONSTRUCTION TRAFFIC SHALL REMAIN OPEN AT ALL TIMES WITH ADEQUATE DETOURS DURING RECONSTRUCTION. RECONSTRUCTION OF EXISTING STREETS SHALL INCLUDE UPGRADING THE AFFECTED PAVEMENT AREA TO MEET ORIGINAL STANDARDS TO PROVIDE A SOUND STRUCTURAL SECTION. THE CITY ENGINEER SHALL APPROVE ALL IMPROVEMENTS.
B. ANY EXISTING IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REMOVED, REPLACED, AND FULLY RESTORED TO ITS' ORIGINAL CONDITION AT THE DEVELOPER'S COST. ALL WORK SHALL BE APPROVED BY THE CITY ENGINEER.
C. DEVELOPER/CONTRACTORS WORK SHALL BE IN ACCORDANCE WITH THE SJVAPCD GUIDELINES, INCLUDED SJVAPCD REGULATION VIII AND IMPLEMENT CONTROL MEASURES BASED ON SJVAPCD COMPLIANCE ASSISTANCE BULLETIN FOR SHORT TERM IMPACTS. SJVAPCD SHALL BE CONTACTED TO DISCUSS MITIGATION MEASURES AND IMPLEMENT MEASURES FROM TABLE 6-4 OF THE GUIDE FOR ASSESSING AND MITIGATION AIR QUALITY IMPACTS.
D. ALL PRESSURIZED PLASTIC PIPES SHALL HAVE TRACE WIRES.
E. DEWATERING PLANS FOR ALL TRENCHES SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.
F. ALL IRRIGATION SYSTEMS WITH THE CITY'S RIGHT-OF-WAYS OR PARKS SHALL BE DESIGNED USING "CALSENSE" CONTROLLERS AS APPROVED BY THE CITY ENGINEER.
G. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYWRAP.



RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR PIPES FROM DAMAGE. IF STACKED, TAKE MEASURES TO ENSURE LOWER PIPES ARE NOT DAMAGED FROM EXCESSIVE WEIGHT. COVER PIPES TO PROVIDE TEMPORARY SUN BLOCK, DO NOT STORE GASKETS NEAR ELECTRICAL OR EXHAUST HEAT SOURCES.
CHRISTIAN T. RAGAN
RCE #60473

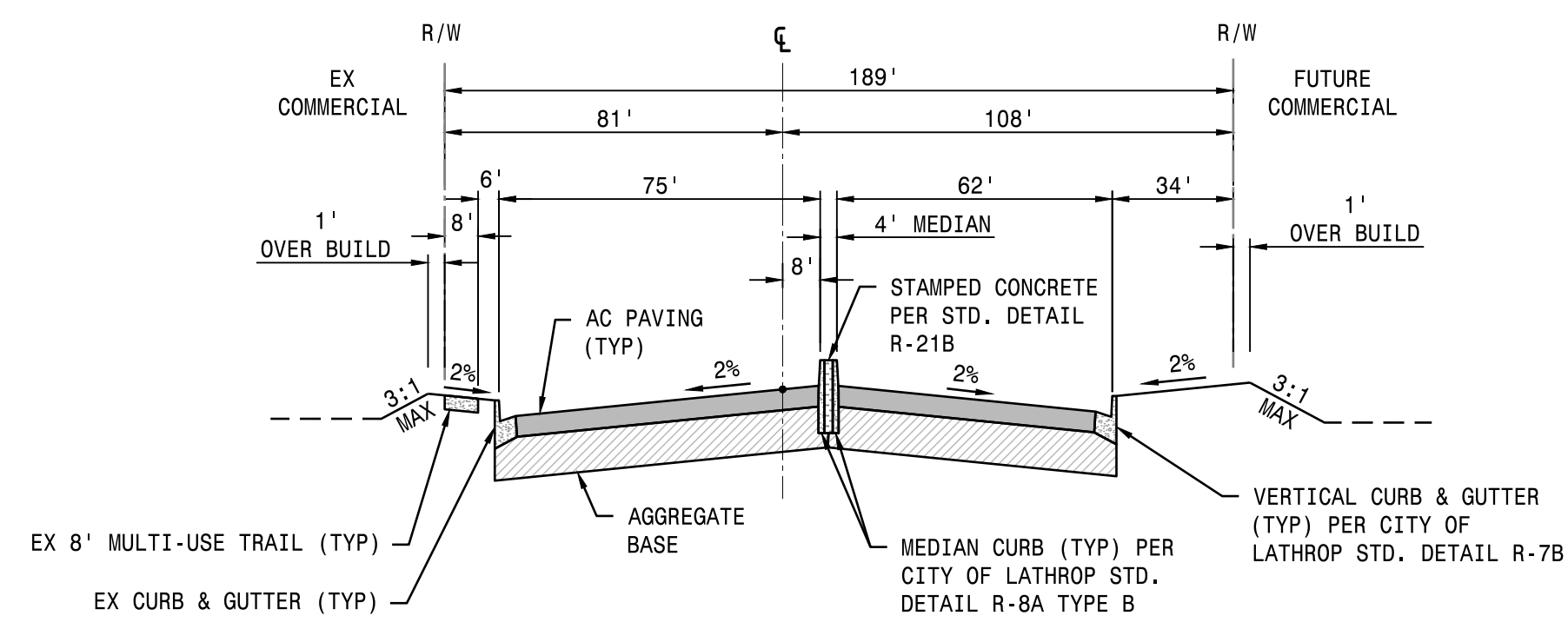
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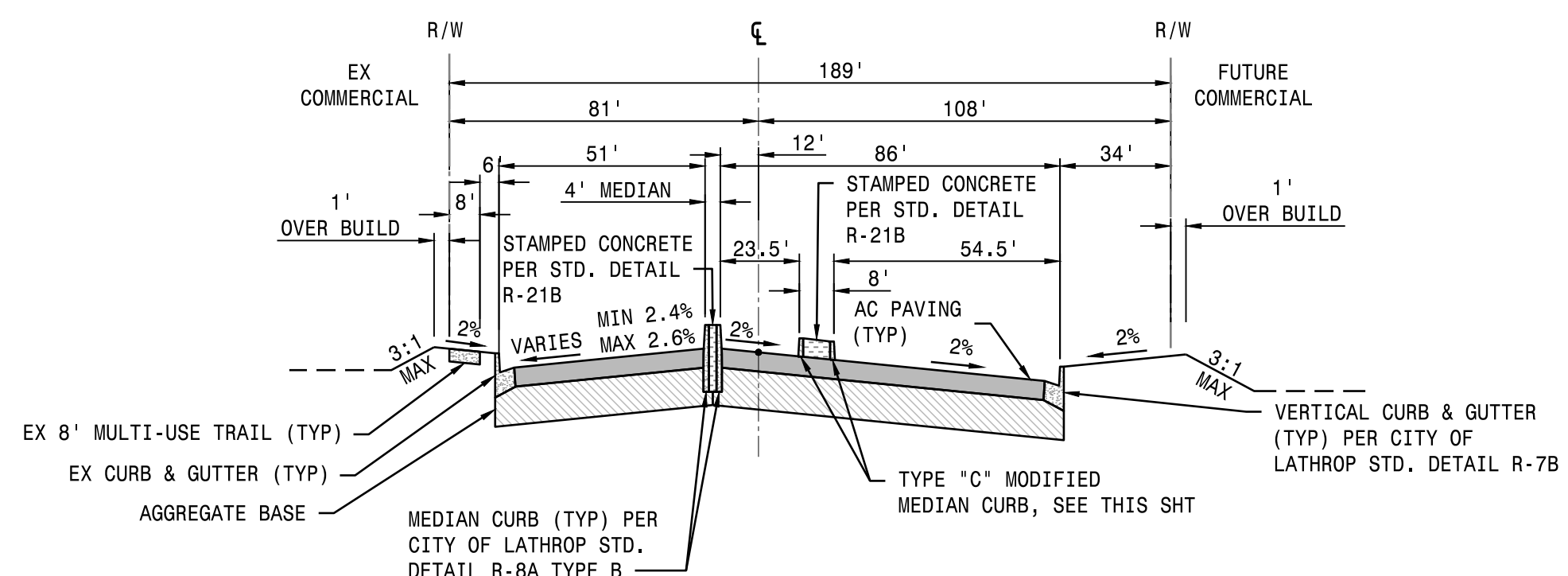
PLANS PREPARED UNDER THE DIRECTION OF:
BY: Christian T. Ragan
CHRISTIAN T. RAGAN RCE No. 60473

RIVER ISLANDS PARKWAY
GENERAL NOTES
DEPARTMENT OF PUBLIC WORKS
CITY OF LATHROP, CALIFORNIA

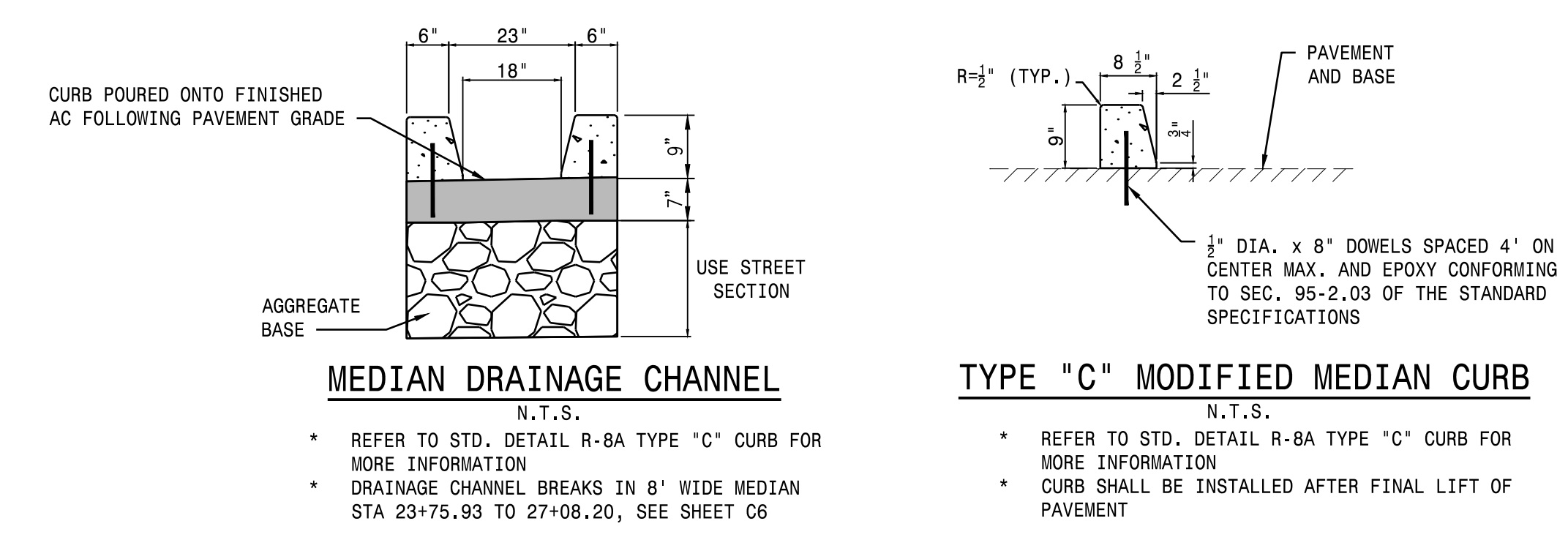
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STA. 20+69 TO STA. 21+99
TYPICAL RIVER ISLANDS PARKWAY SECTION - 189'
 N.T.S.

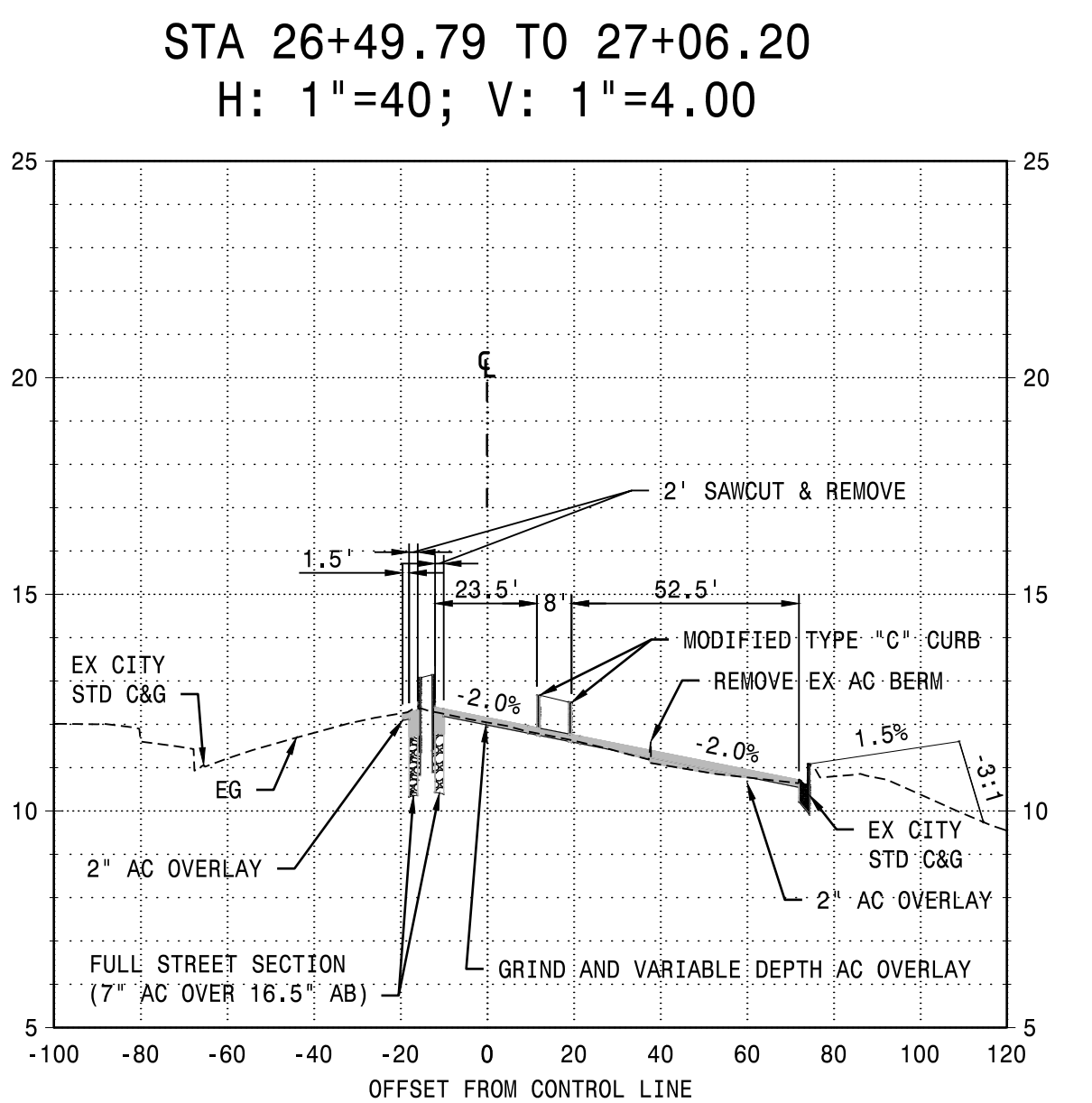
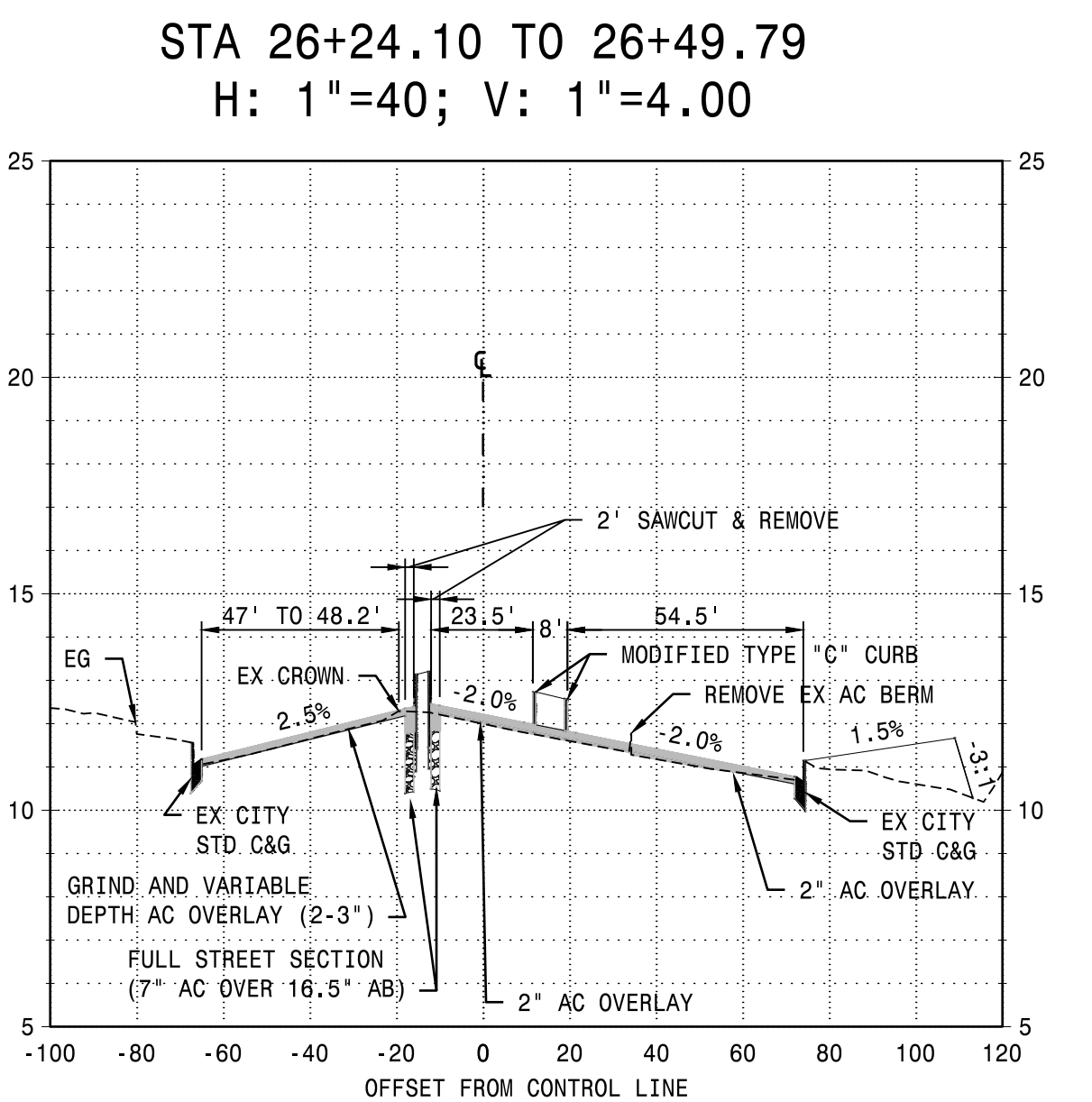
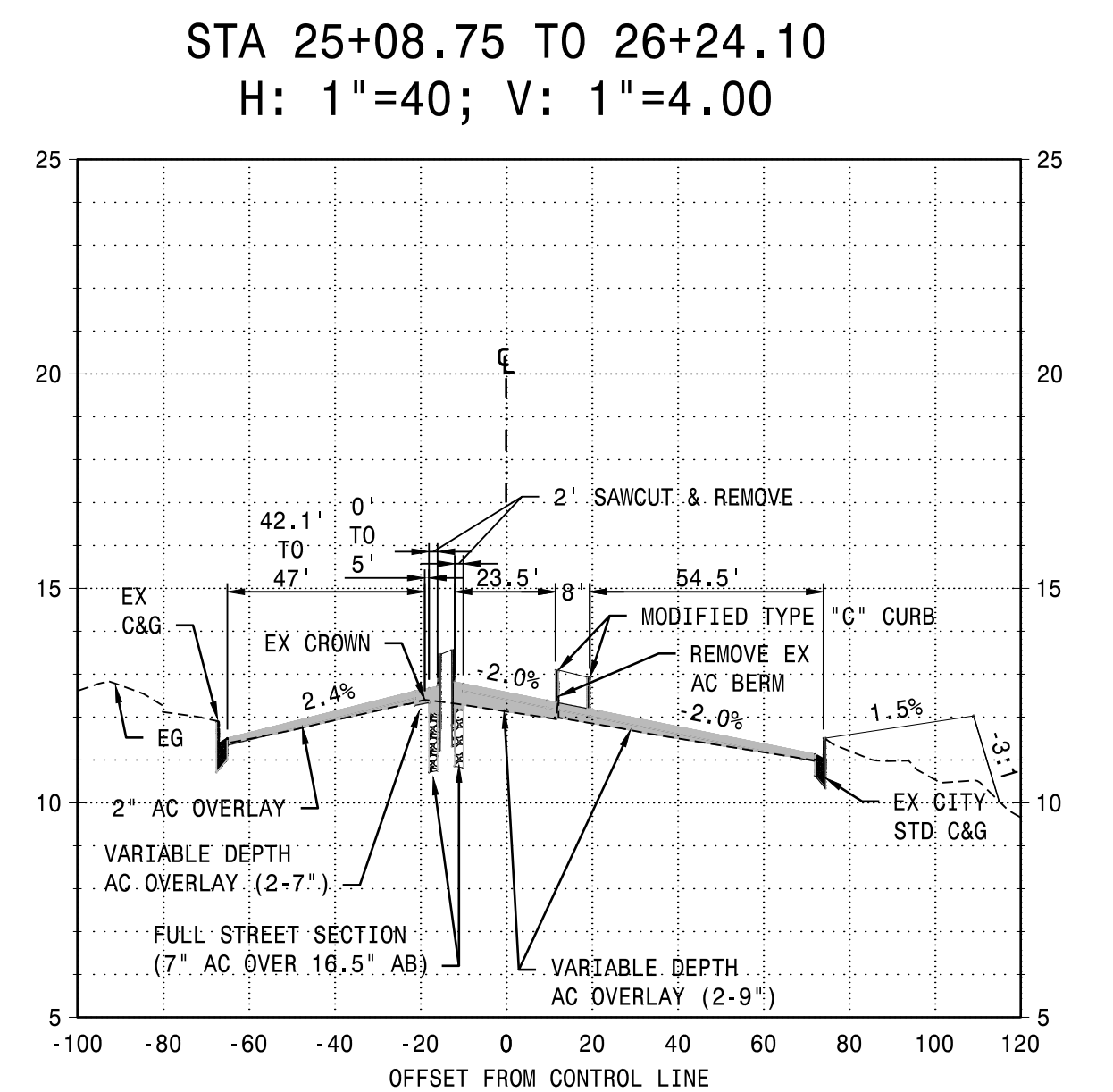
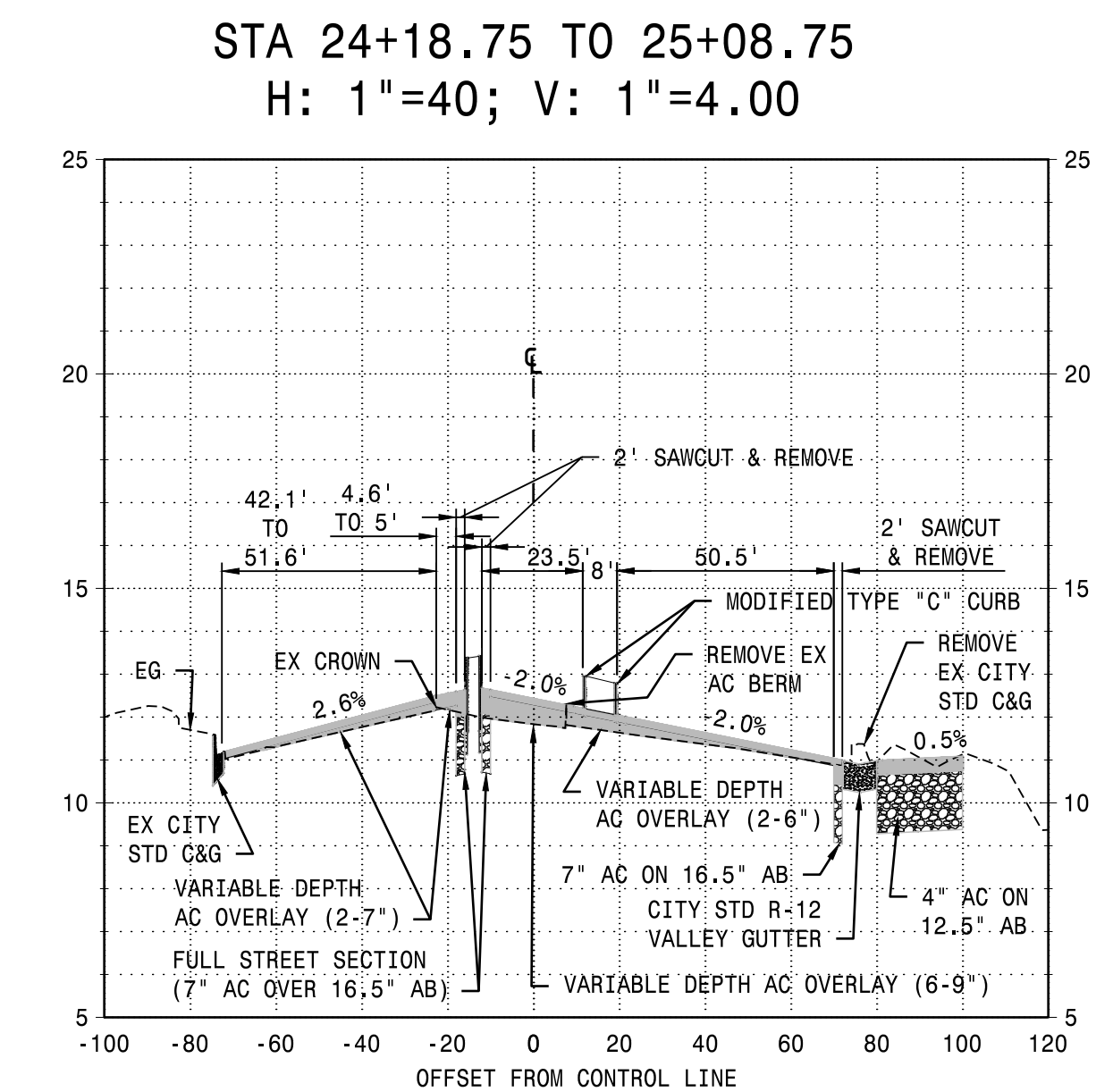
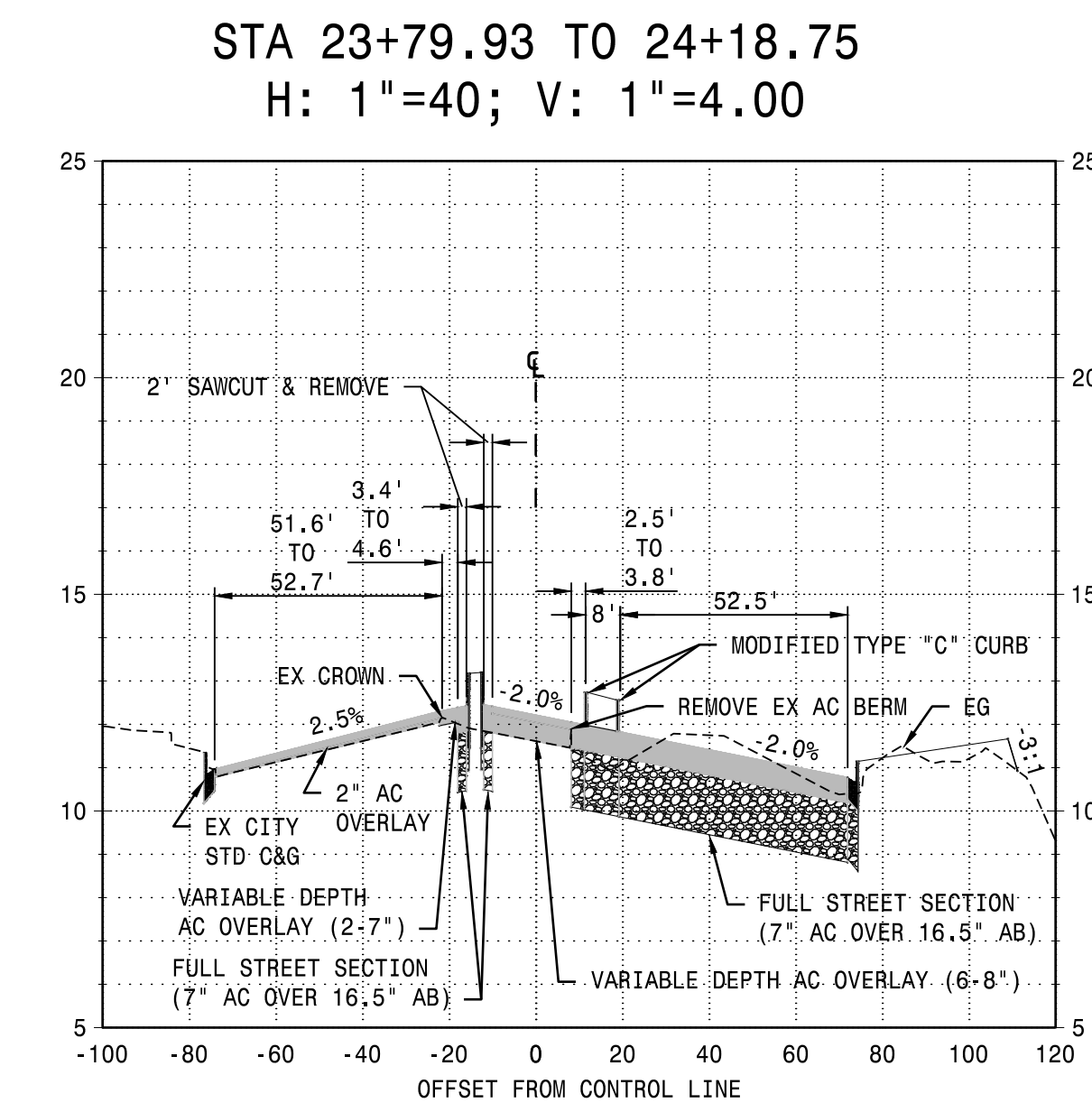
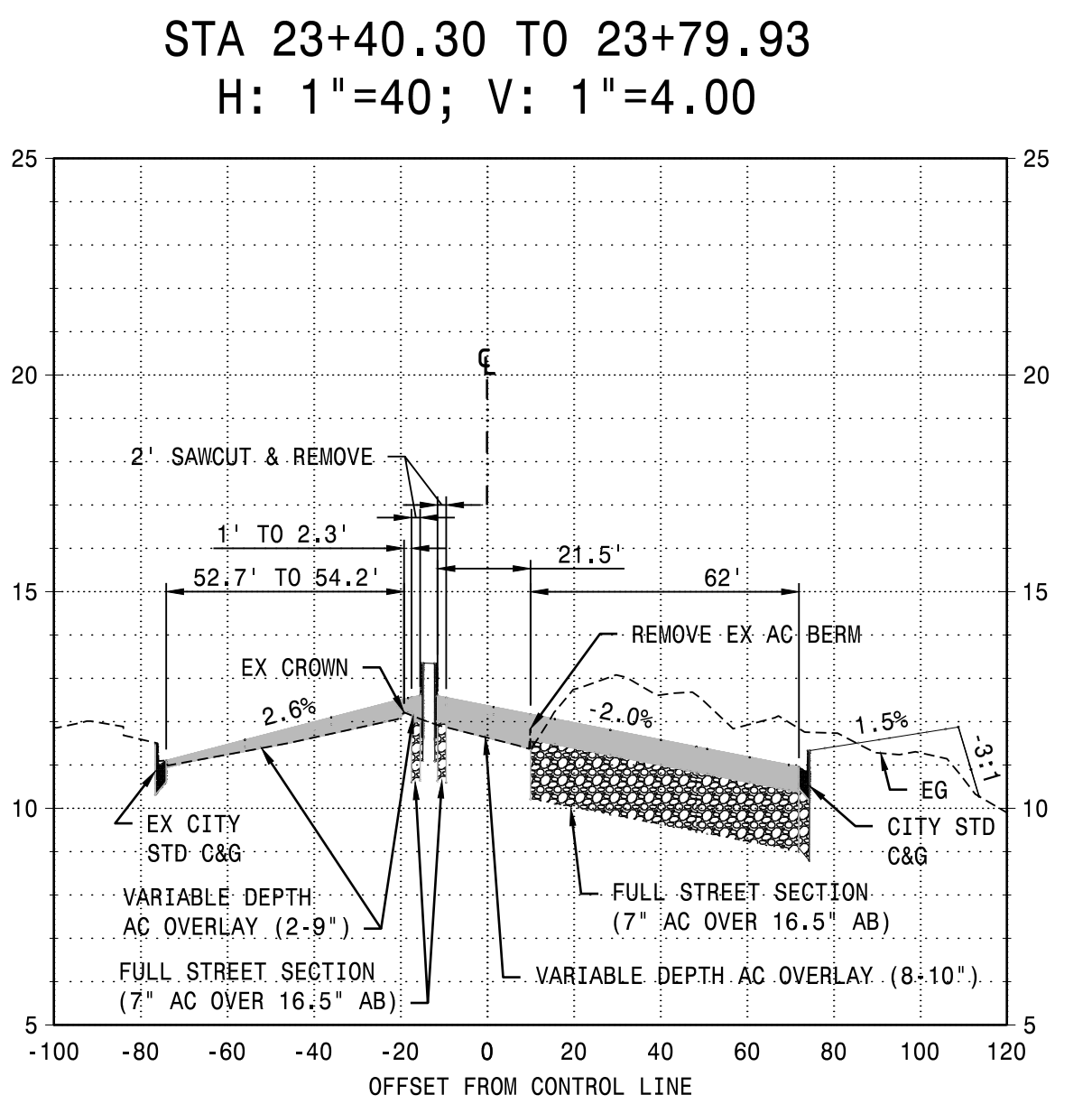
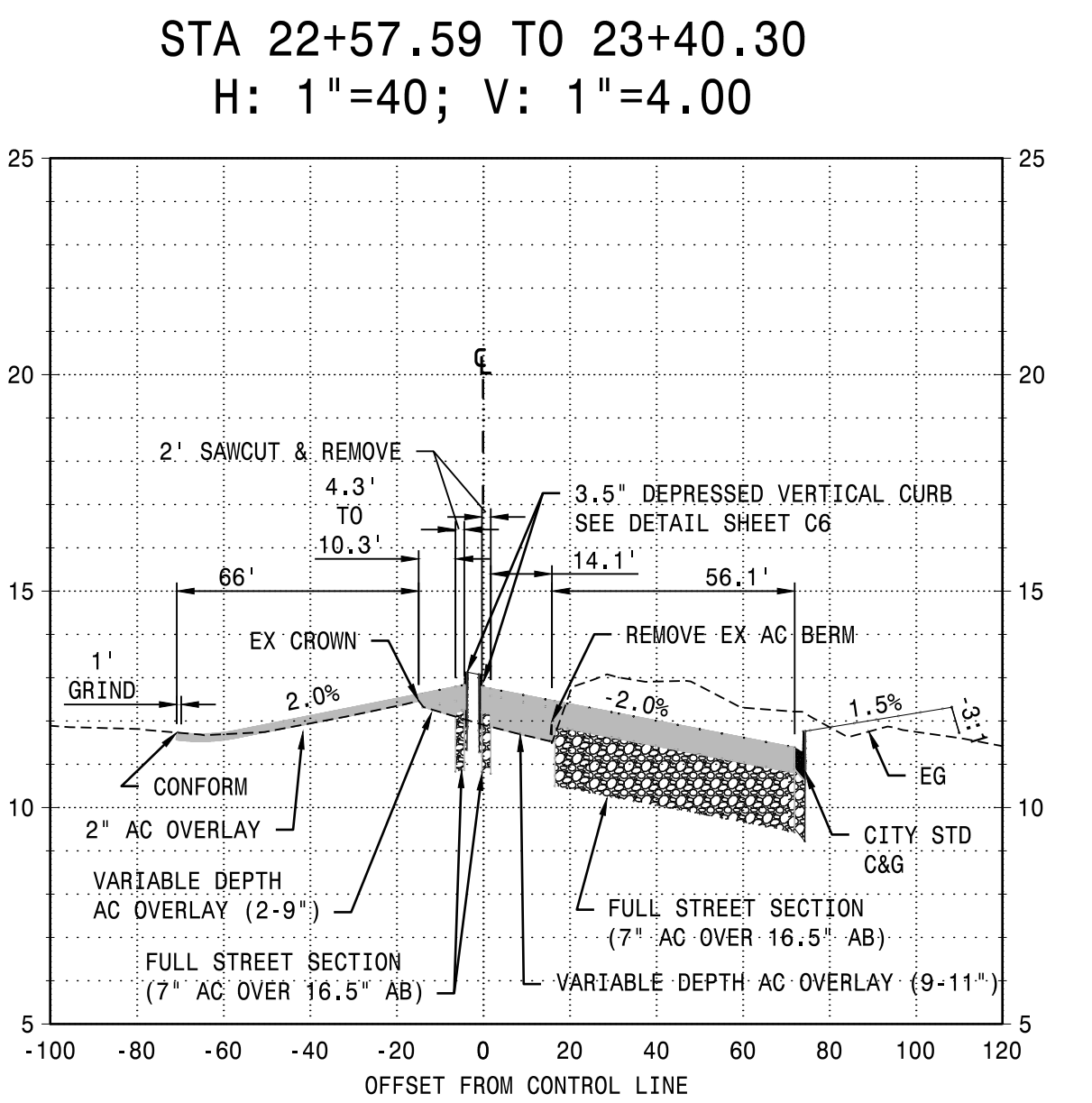
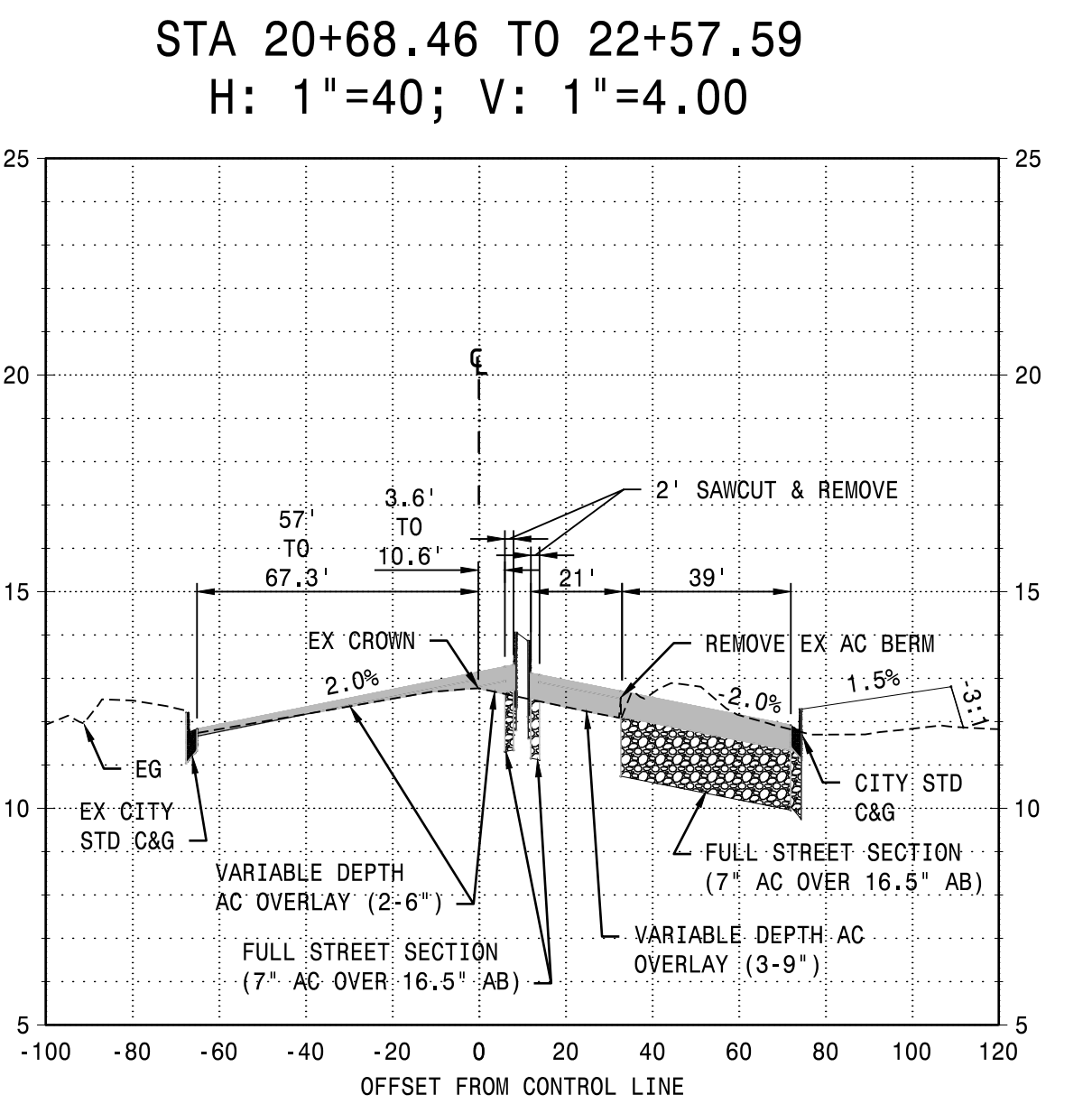
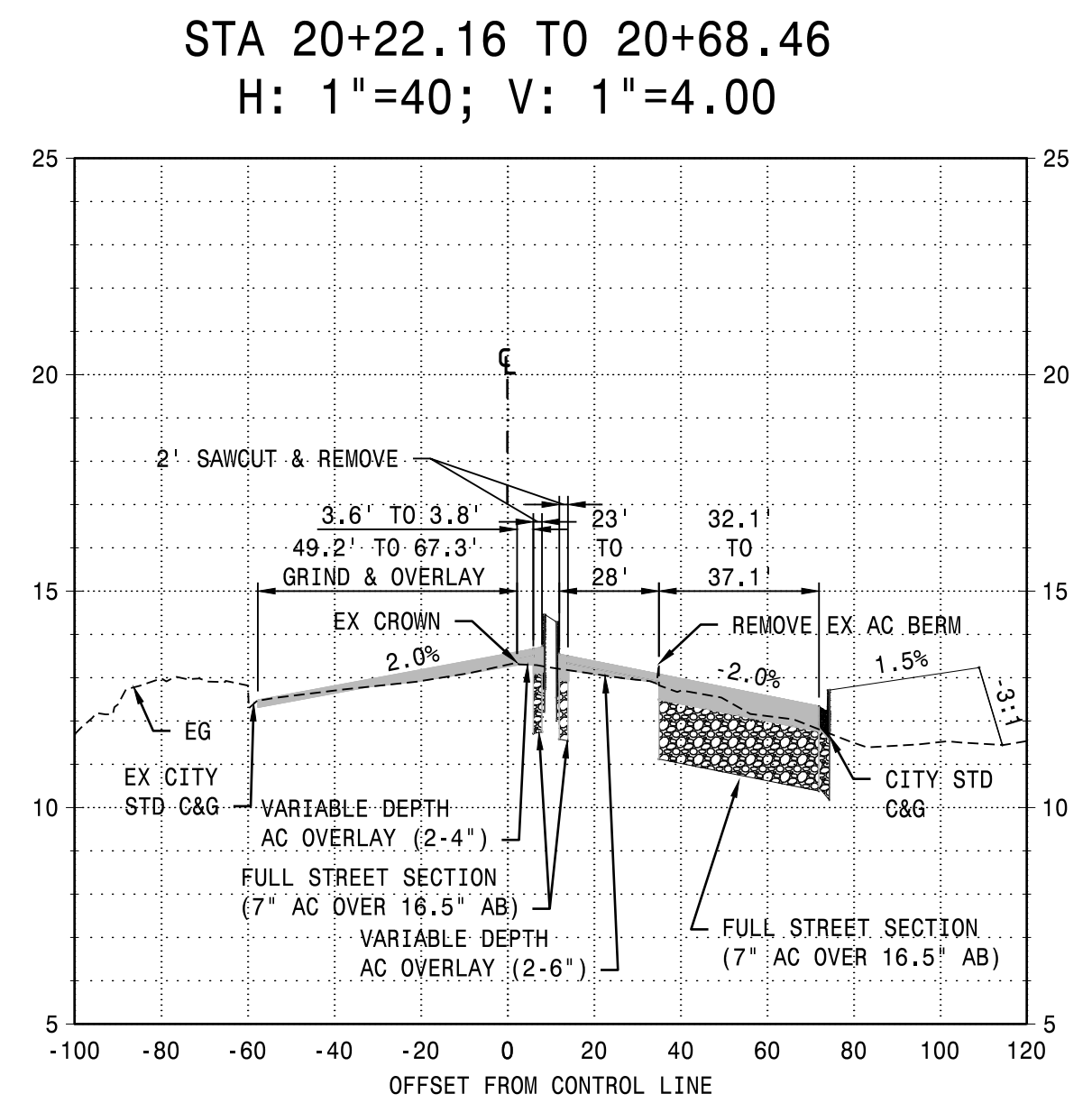


STA. 24+92 TO STA. 26+50
TYPICAL RIVER ISLANDS PARKWAY SECTION - 189'
 N.T.S.



PAVEMENT SECTIONS				
STREET NAME	R-VALUE	T.I.	A.C.	A.B.
RIVER ISLANDS PARKWAY	30	11	7"	16.5"
COMMERCIAL DRIVEWAY ENTRANCE	7	4"	12.5"	

THE SOILS ENGINEER SHALL PERFORM R-VALUE TESTS AT LOCATIONS SPECIFIED BY THE CITY OF LATHROP PRIOR TO COMPLETION OF THE SUBGRADE IN ORDER TO VERIFY PAVEMENT SECTION DESIGN.
 AB SHALL BE CLASS 2 (R-78) PER CALTRANS STANDARD SPECIFICATIONS.



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

CHRISTIAN T. RAGAN
 RCE #60473

RIVER ISLANDS PARKWAY
 SECTIONS AND DETAILS
 DEPARTMENT OF PUBLIC WORKS
 CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

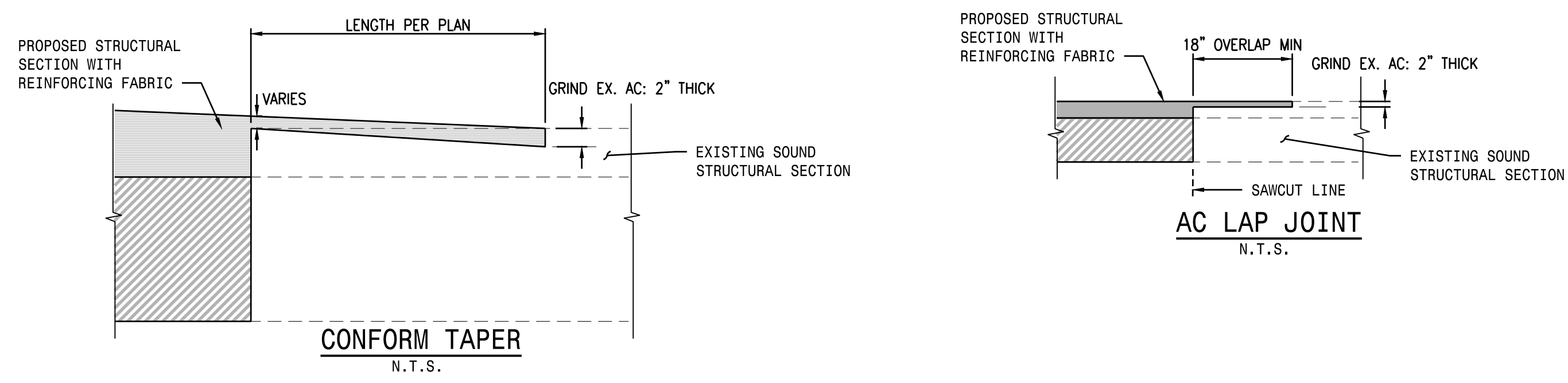
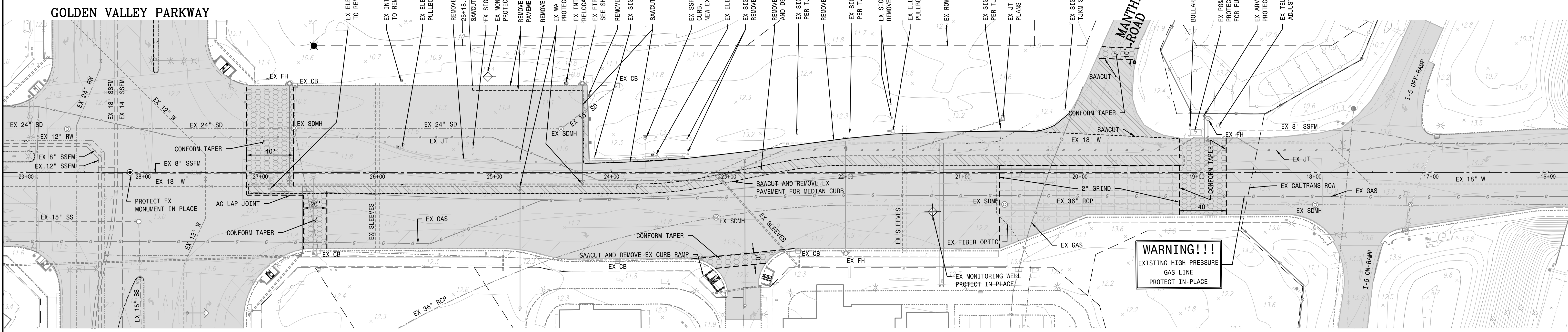
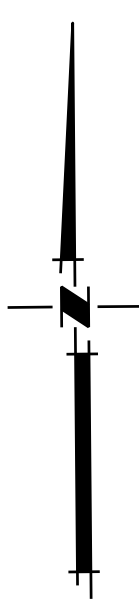
PLANS PREPARED UNDER THE DIRECTION OF:
 BY: *Christian T. Ragan*
 CHRISTIAN T. RAGAN RCE No. 60473

DATE: JULY 2020
 SCALE: NONE
 DRAWN BY: EML
 DESIGNED BY: CML
 CHECKED BY: CTR

RECOMMENDED FOR APPROVAL BY: DATE: _____
 CITY OF LATHROP

PROJECT NO. 25228.RIP.D
 SHEET NO. C3
 SHEET 3 OF 7

- LEGEND:
- REMOVE FULL PAVEMENT SECTION
 - EXISTING PAVEMENT
 - SAWCUT
 - GRIND LIMITS AT LAP JOINTS AND CONFORM TAPERS
 - 2" GRIND AREA
 - CONFORM TAPER GRIND SEE DETAIL THIS SHEET



NOTES:
1. CONTRACTOR RESPONSIBLE TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES. IF AS-BUILT LOCATIONS OR ELEVATIONS DO NOT MATCH PLANS, MACKAY & SOMPS MUST BE NOTIFIED PRIOR TO INSTALLATION OF PROPOSED UTILITIES.

NOTE:
EXISTING MARKETING SIGNS TO BE REMOVED BY OWNER PRIOR TO START OF CONSTRUCTION



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

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

CHRISTIAN T. RAGAN
RCE #60473

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

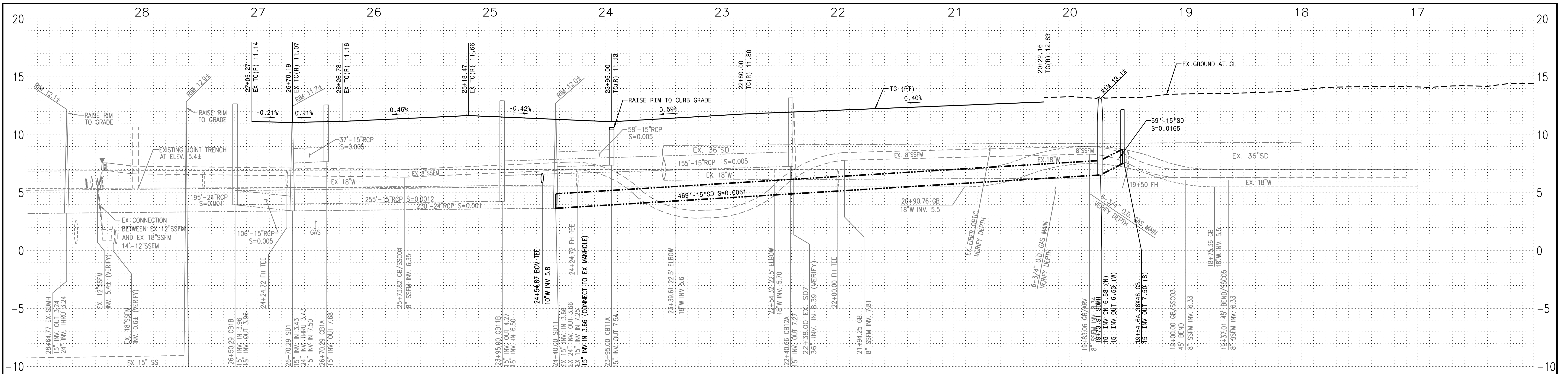
RIVER ISLANDS PARKWAY
DEMOLITION AND RELOCATION PLAN
DEPARTMENT OF PUBLIC WORKS
CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL APPROVED BY	DATE

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

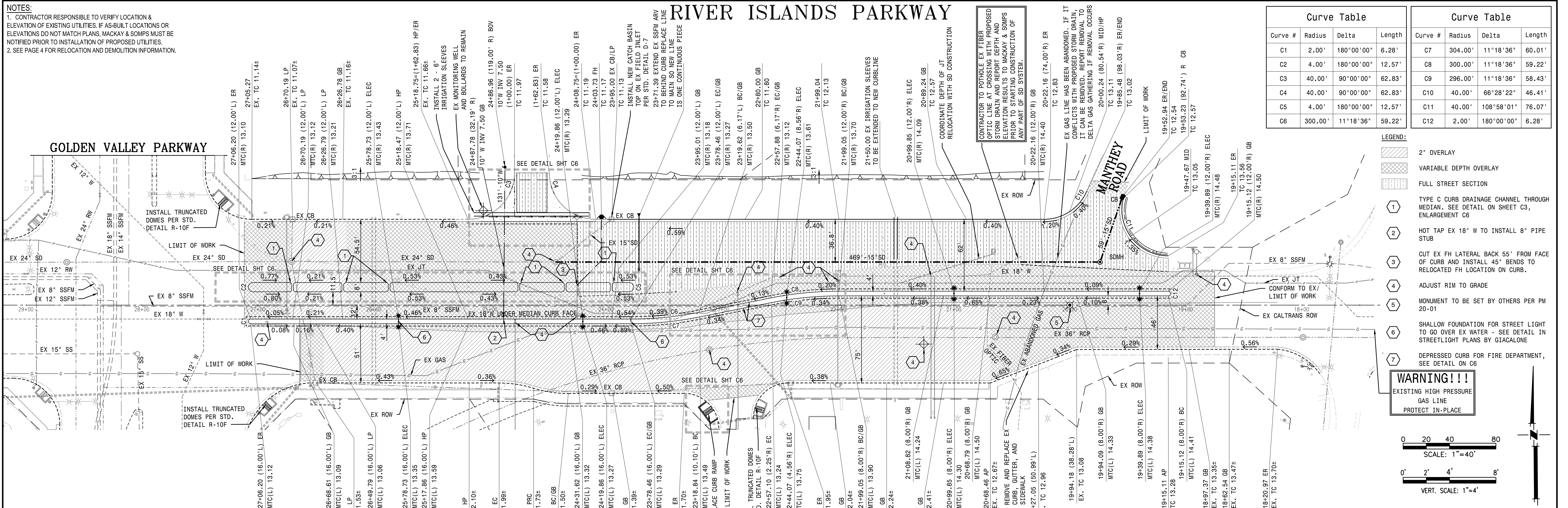
PLANS PREPARED UNDER THE DIRECTION OF:
BY: *Christian T. Ragan*
CHRISTIAN T. RAGAN RCE No. 60473

DATE: JULY 2020	RECOMMENDED FOR APPROVAL BY: _____	PROJECT NO. 25228.RIP.D
SCALE: 1"=40'	DATE: _____	SHEET NO. C4
DRAWN BY: EML		
DESIGNED BY: CML		
CHECKED BY: CTR	CITY OF LATHROP	SHEET 4 OF 7



NOTES:
 1. CONTRACTOR RESPONSIBLE TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES. IF AS-BUILT LOCATIONS OR ELEVATIONS DO NOT MATCH PLANS, MACKAY & SOMPS MUST BE NOTIFIED PRIOR TO INSTALLATION OF PROPOSED UTILITIES.
 2. SEE PAGE 4 FOR RELOCATION AND DEMOLITION INFORMATION.

RIVER ISLANDS PARKWAY

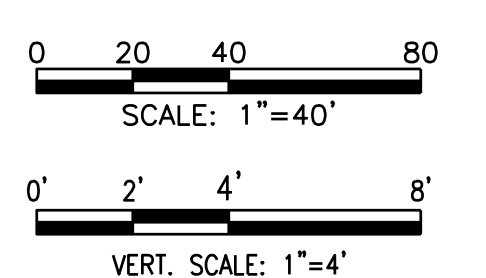


Curve Table			
Curve #	Radius	Delta	Length
C1	2.00'	180°00'00"	6.28'
C2	4.00'	180°00'00"	12.57'
C3	40.00'	90°00'00"	62.83'
C4	40.00'	90°00'00"	62.83'
C5	4.00'	180°00'00"	12.57'
C6	300.00'	11°18'36"	59.22'

Curve Table			
Curve #	Radius	Delta	Length
C7	304.00'	11°18'36"	60.01'
C8	300.00'	11°18'36"	59.22'
C9	296.00'	11°18'36"	58.43'
C10	40.00'	66°28'22"	46.41'
C11	40.00'	108°58'01"	76.07'
C12	2.00'	180°00'00"	6.28'

- LEGEND:**
- 2" OVERLAY
 - VARIABLE DEPTH OVERLAY
 - FULL STREET SECTION
 - TYPE C CURB DRAINAGE CHANNEL THROUGH MEDIAN, SEE DETAIL ON SHEET C3, ENLARGEMENT C6
 - HOT TAP EX 18" W TO INSTALL 8" PIPE STUB
 - CUT EX FH LATERAL BACK 55' FROM FACE OF CURB AND INSTALL 45° BENDS TO RELOCATED FH LOCATION ON CURB.
 - ADJUST RIM TO GRADE
 - MONUMENT TO BE SET BY OTHERS PER PM 20-01
 - SHALLOW FOUNDATION FOR STREET LIGHT TO GO OVER EX WATER - SEE DETAIL IN STREETLIGHT PLANS BY GIALCONE
 - DEPRESSED CURB FOR FIRE DEPARTMENT, SEE DETAIL ON C6

WARNING!!!
 EXISTING HIGH PRESSURE GAS LINE
 PROTECT IN-PLACE



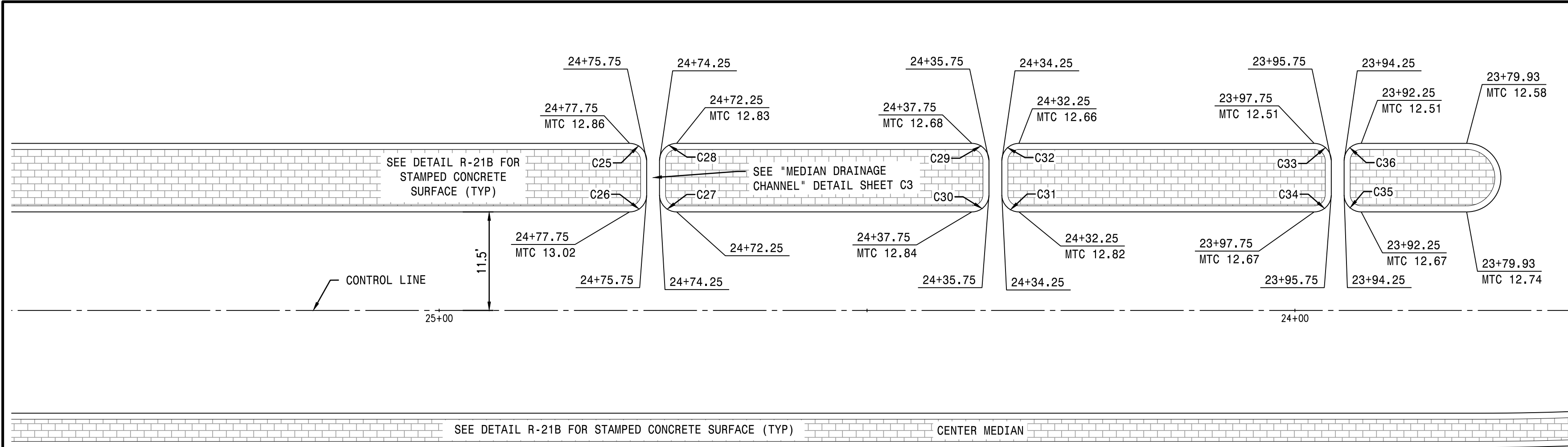
Know what's below.
Call before you dig.

RECORD DRAWING

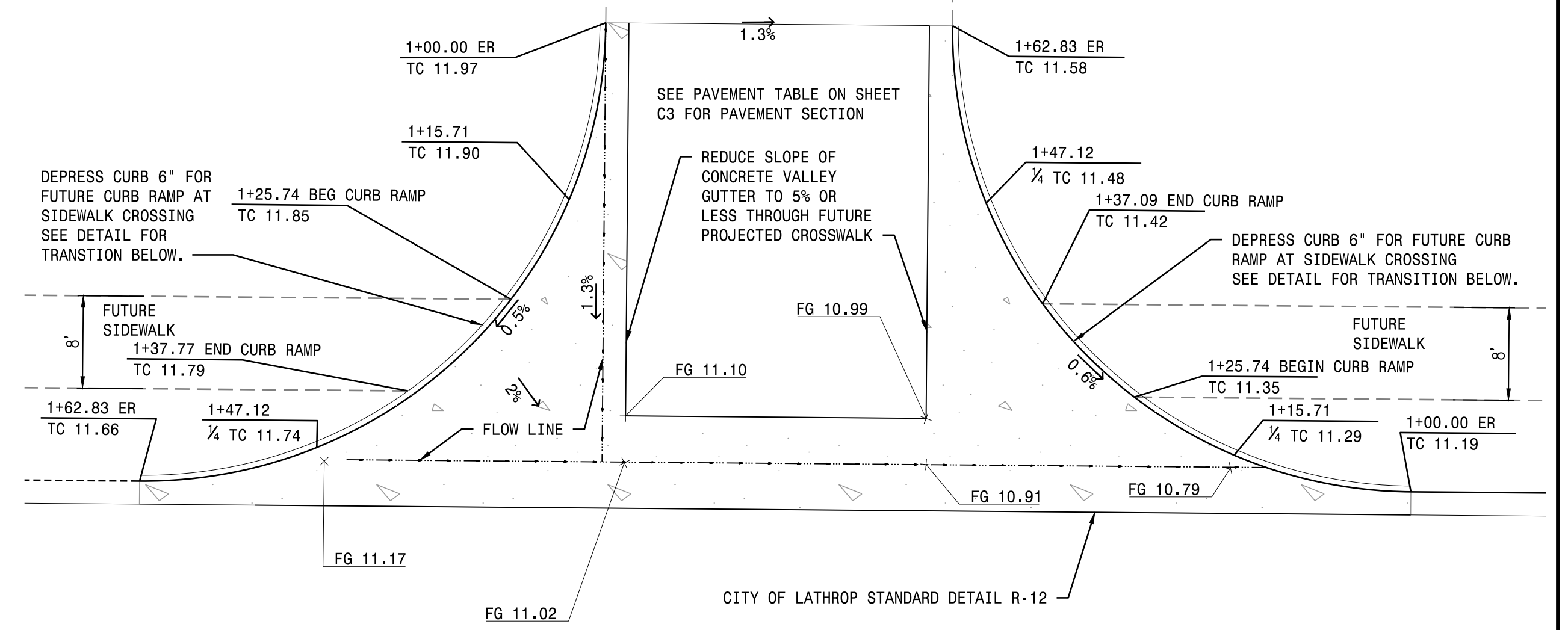
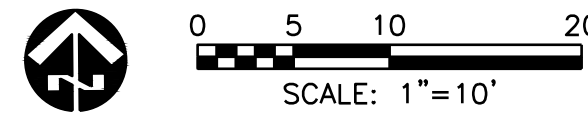
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

CHRISTIAN T. RAGAN
RCE #60473

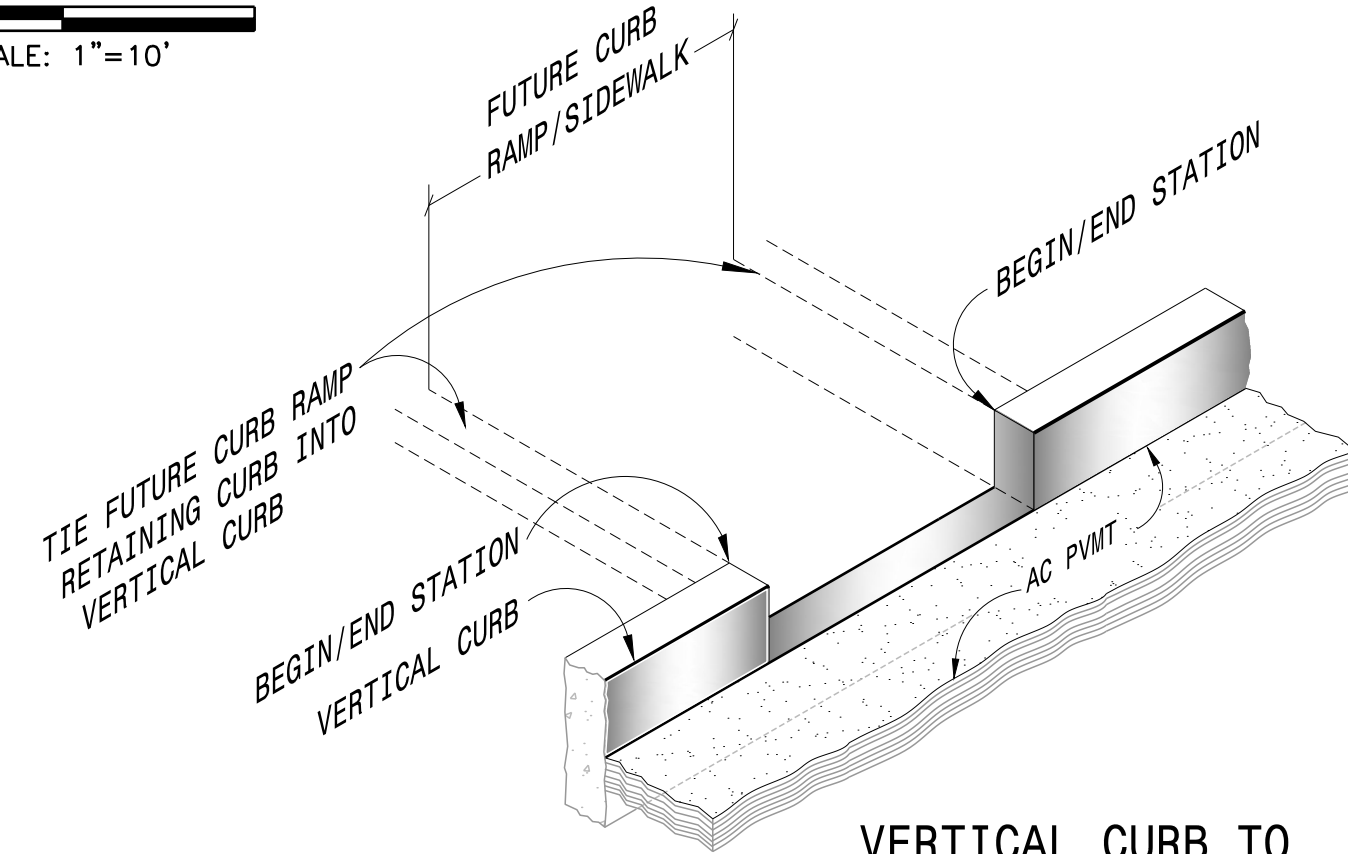
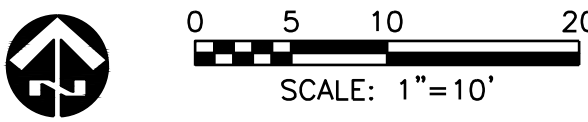
REVISIONS NO. DESCRIPTION CHECKED BY CITY APPROVAL APPROVED BY DATE		Mackay & Somps ENGINEERS PLANNERS SURVEYORS PLEASANTON, CA (925)225-0690	PLANS PREPARED UNDER THE DIRECTION OF: CHRISTIAN T. RAGAN RCE No. 60473	DATE: JULY 2020 SCALE: 1"=40' DRAWN BY: EML DESIGNED BY: CML CHECKED BY: CTR	PROJECT NO. 25228.RIP.D SHEET NO. C5 SHEET 3 OF 7
--	--	---	--	--	--



LEFT MEDIAN TURN LANE DETAIL - STA 23+75.93 TO 25+50

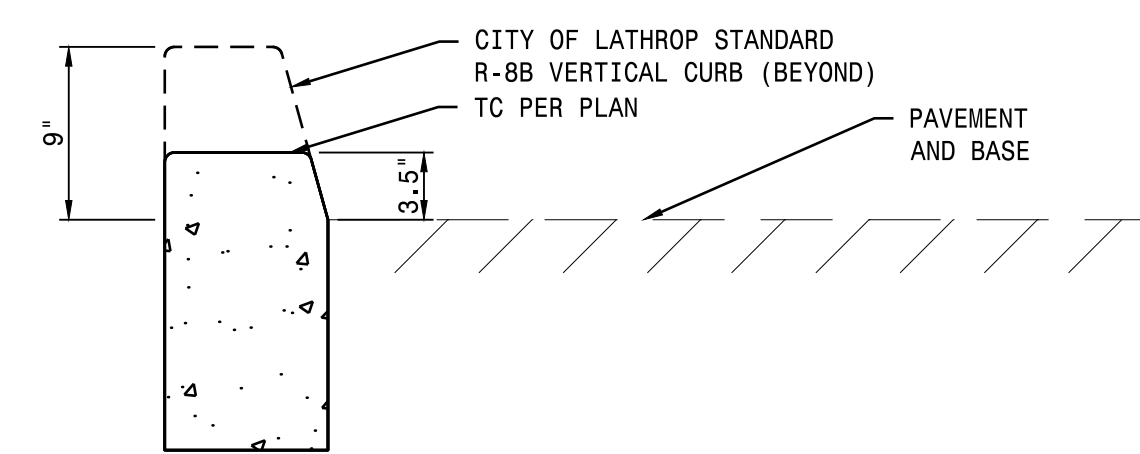


COMMERCIAL DRIVEWAY ENTRANCE

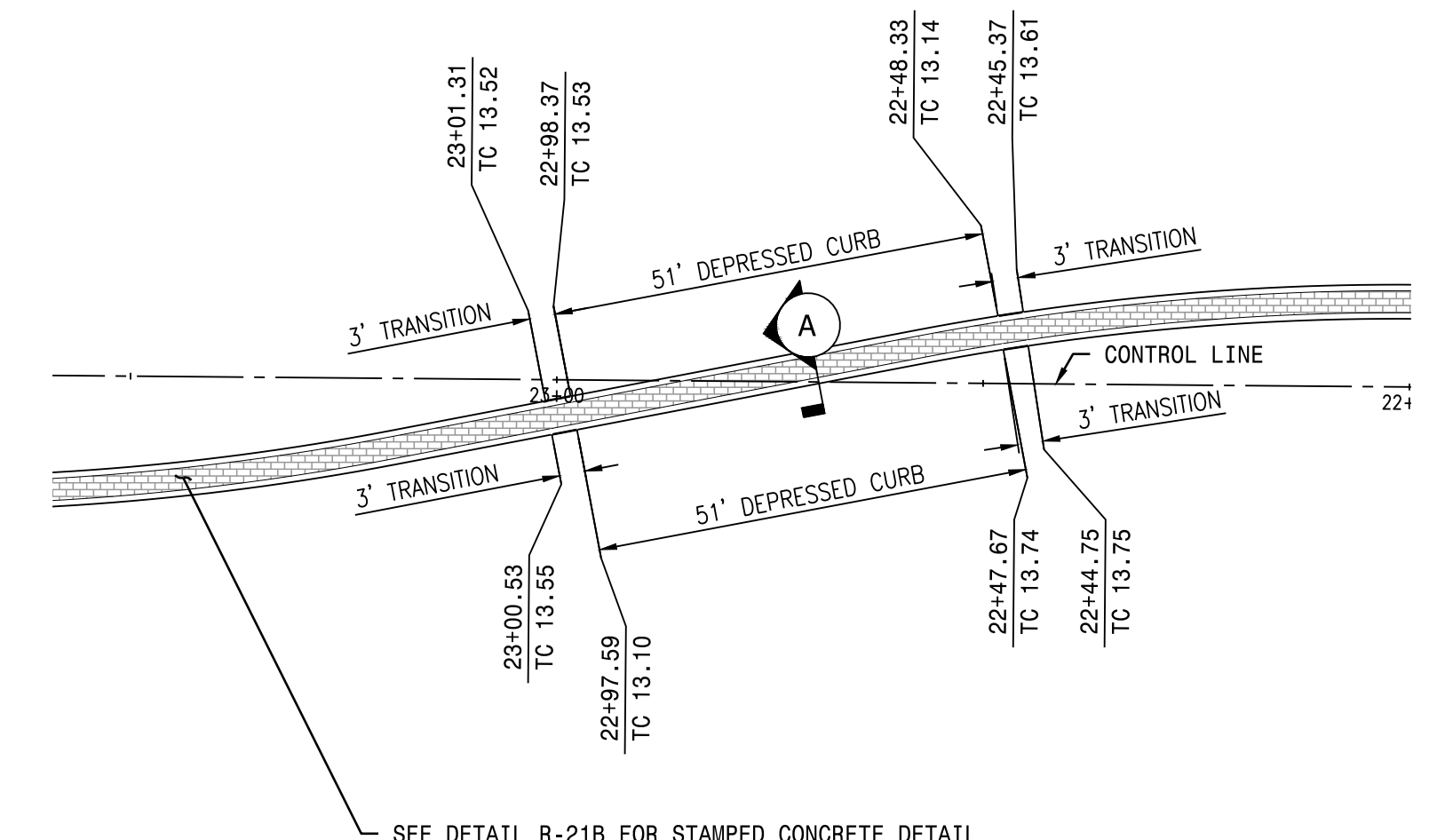


VERTICAL CURB TO FLUSH CURB TRANSITION N.T.S.

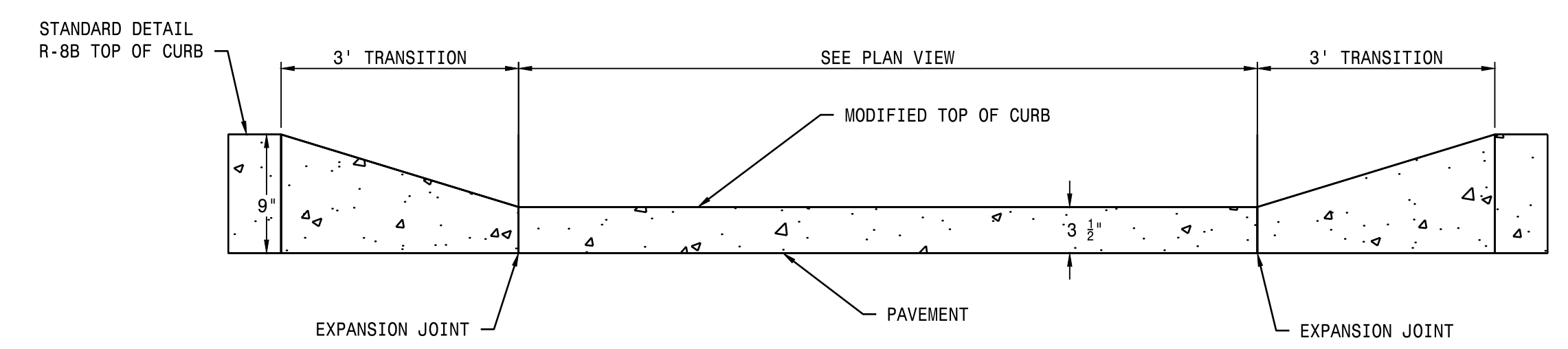
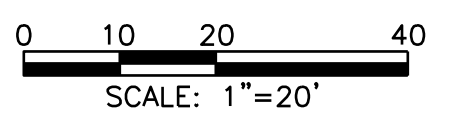
*OCCURS AT FUTURE CURB RAMP AT COMMERCIAL ENTRANCE



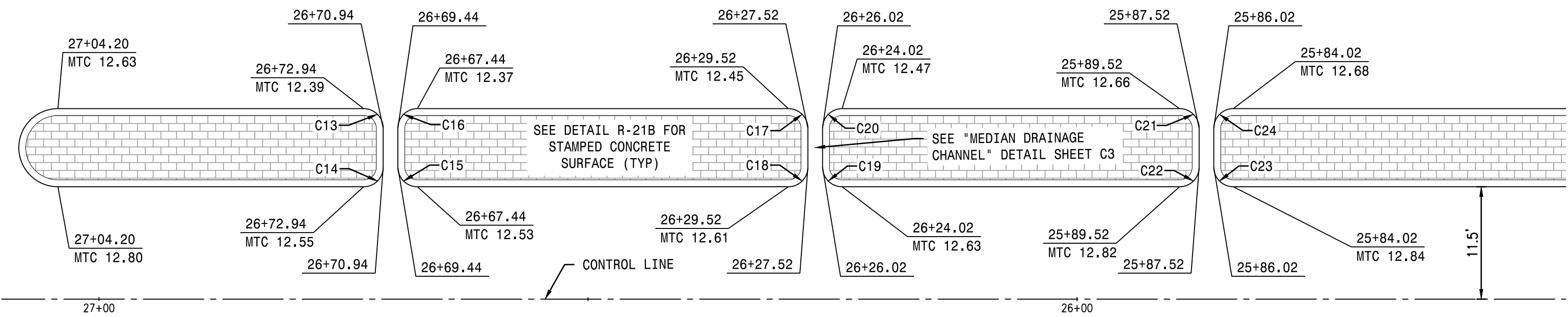
3.5" DEPRESSED VERTICAL CURB - SECTION A N.T.S.



3.5" DEPRESSED VERTICAL CURB ON MEDIAN PLAN VIEW



3.5" DEPRESSED VERTICAL CURB - PROFILE N.T.S.

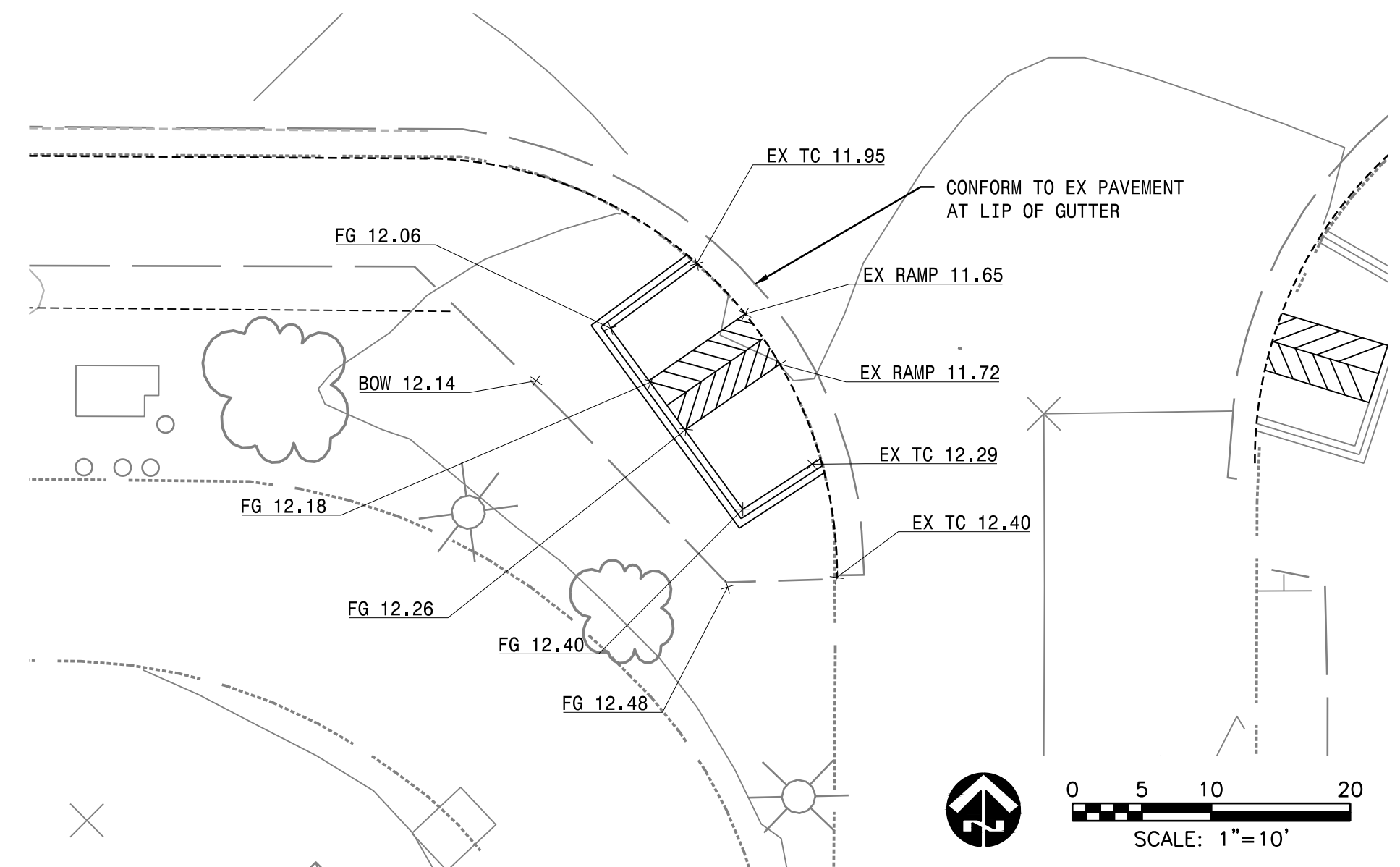


LEFT MEDIAN TURN LANE DETAIL - STA 25+50 TO 27+08.20



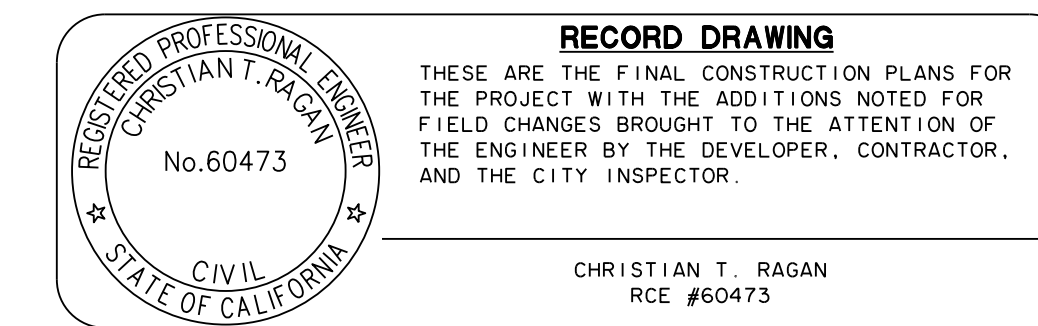
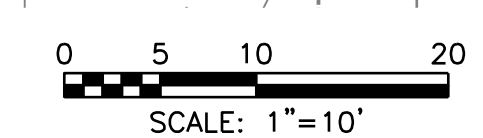
NOTE:
* LEFT TURN MEDIAN IS PER CITY STANDARD DETAIL R-8A. CURB SHALL BE EXTRUDED ONTO AC, AFTER FINAL LIFT OF PAVEMENT IS INSTALLED. DRAINAGE CHANNELS INTENDED TO FOLLOW CROSS SLOPE OF STREET.

Curve #	Radius	Delta	Length
C13	2.00'	90°00'00"	3.14'
C14	2.00'	90°00'00"	3.14'
C15	2.00'	90°00'00"	3.14'
C16	2.00'	90°00'00"	3.14'
C17	2.00'	90°00'00"	3.14'
C18	2.00'	90°00'00"	3.14'
C19	2.00'	90°00'00"	3.14'
C20	2.00'	90°00'00"	3.14'
C21	2.00'	90°00'00"	3.14'
C22	2.00'	90°00'00"	3.14'
C23	2.00'	90°00'00"	3.14'
C24	2.00'	90°00'00"	3.14'
C25	2.00'	90°00'00"	3.14'
C26	2.00'	90°00'00"	3.14'
C27	2.00'	90°00'00"	3.14'
C28	2.00'	90°00'00"	3.14'
C29	2.00'	90°00'00"	3.14'
C30	2.00'	90°00'00"	3.14'
C31	2.00'	90°00'00"	3.14'
C32	2.00'	90°00'00"	3.14'
C33	2.00'	90°00'00"	3.14'
C34	2.00'	90°00'00"	3.14'
C35	2.00'	90°00'00"	3.14'
C36	2.00'	90°00'00"	3.14'



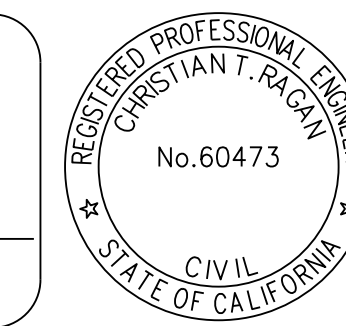
SOUTHWEST CURB RETURN TO COMMERCIAL ENTRANCE

NOTES:
1: INSTALL TRUNCATED DOMES PER CITY STANDARD RAMP DETAILS R-10A-10F
2: REMOVE AND REPLACE EX RAMP



RECORD DRAWING
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CHRISTIAN T. RAGAN
RCE #60473



RIVER ISLANDS PARKWAY

MEDIAN AND CURB DETAILS

DEPARTMENT OF PUBLIC WORKS
CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL APPROVED BY	DATE



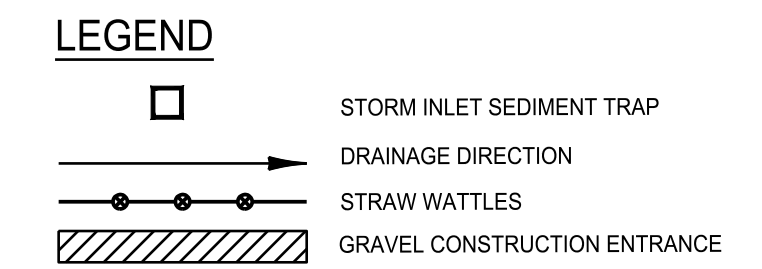
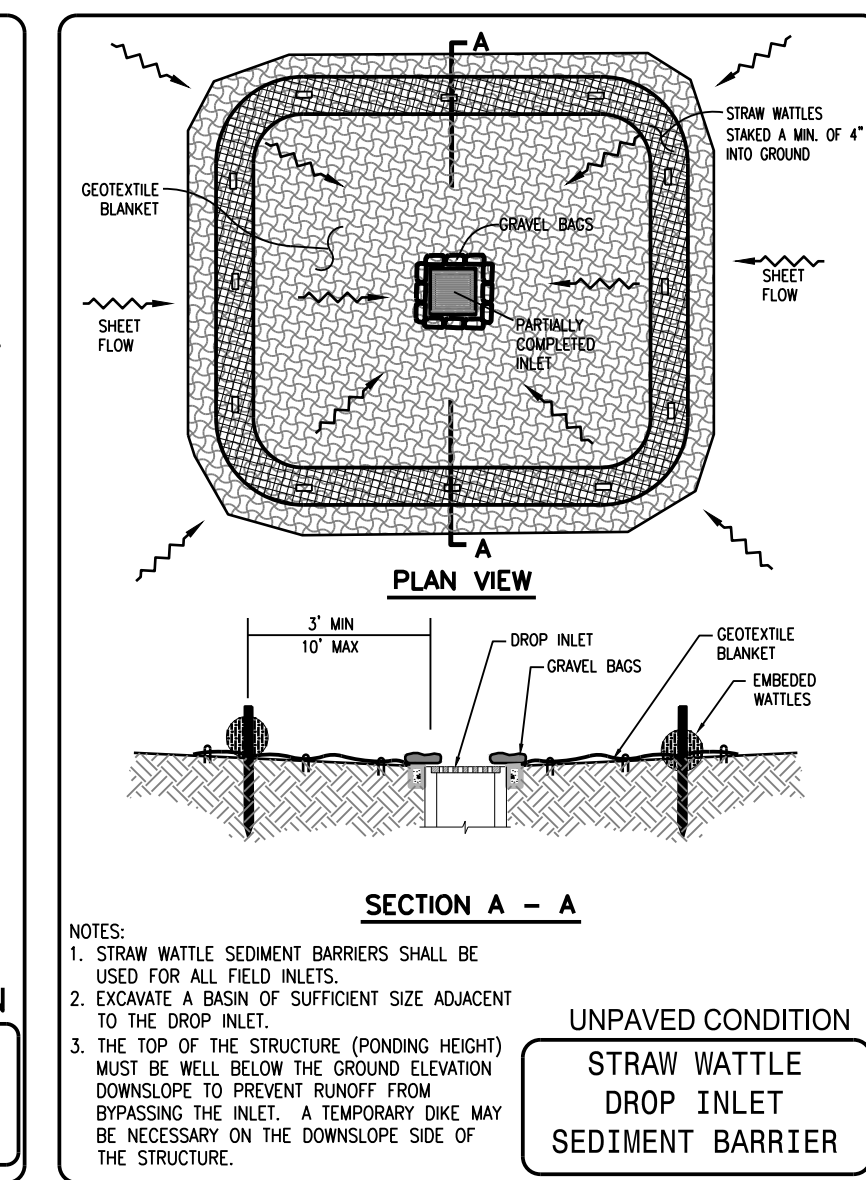
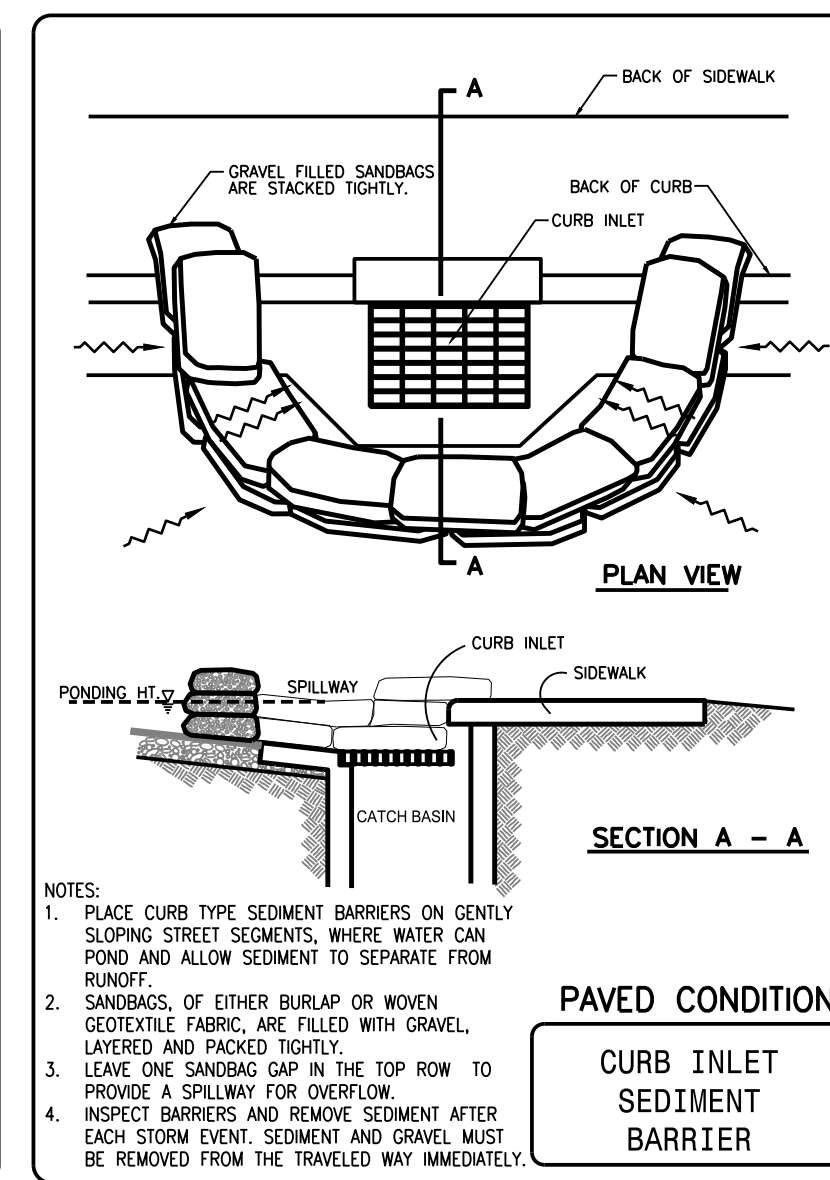
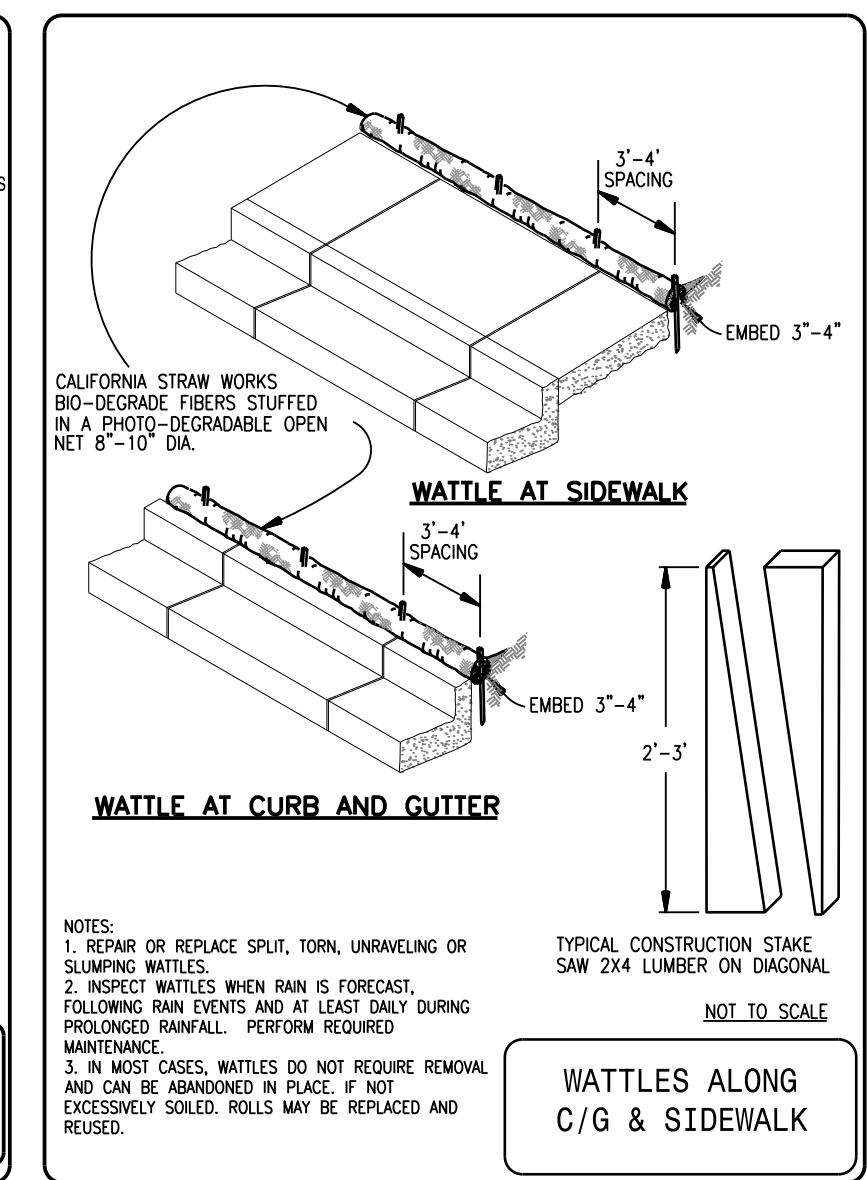
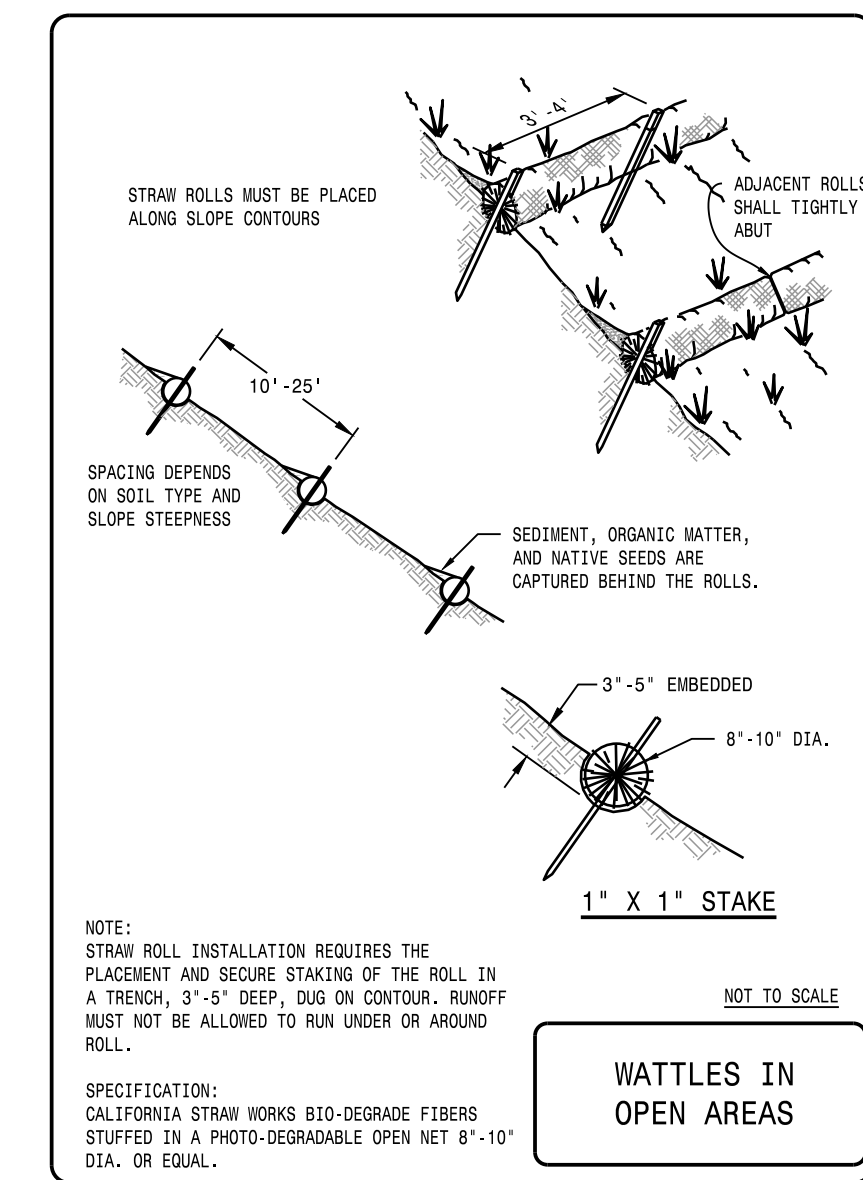
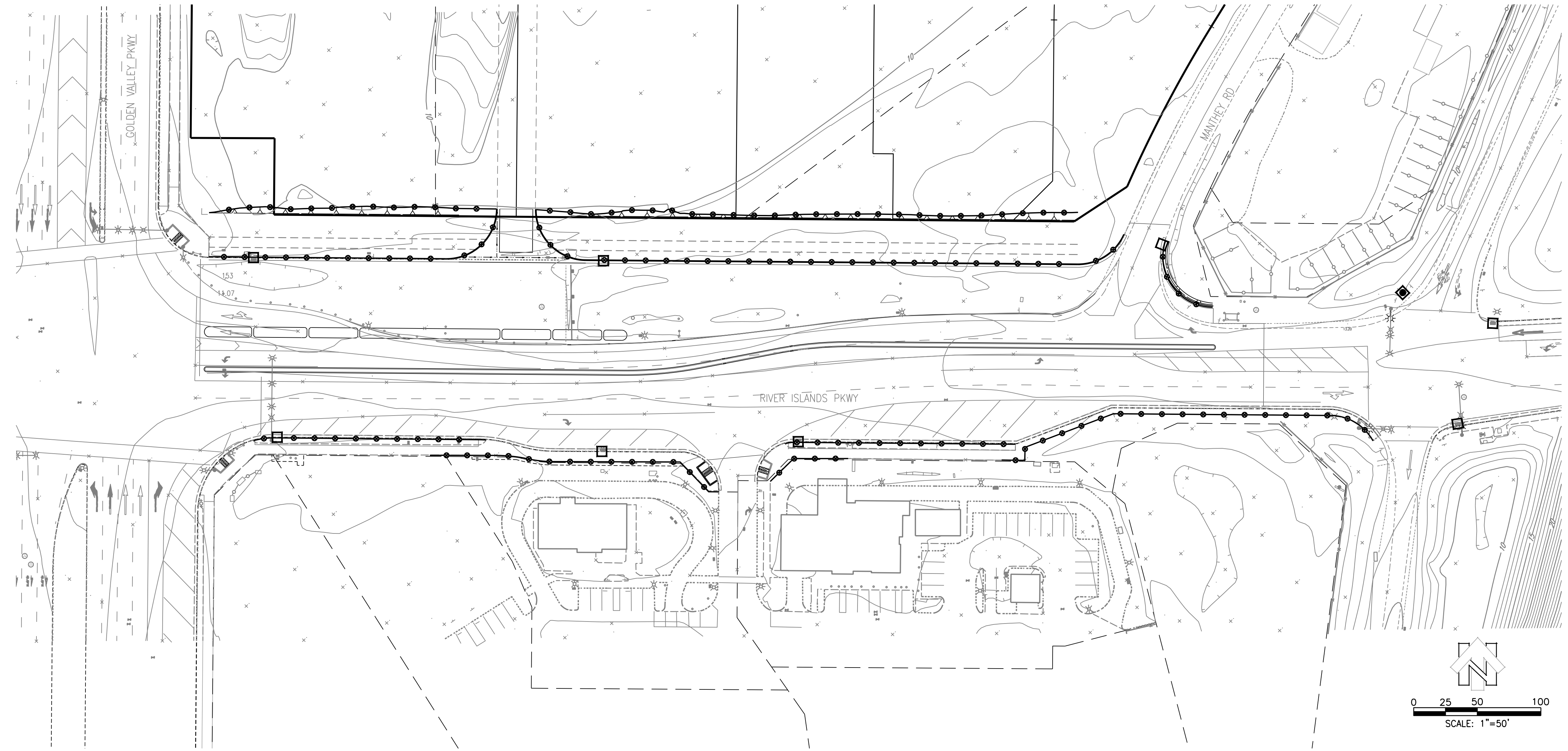
PLANS PREPARED UNDER THE DIRECTION OF:

BY: *Christian T. Ragan*
CHRISTIAN T. RAGAN RCE No. 60473

DATE: JULY 2020	RECOMMENDED FOR APPROVAL BY: DATE: _____	PROJECT NO. 25228.RIP.D
SCALE: _____		SHEET NO. C6
DRAWN BY: EML		SHEET 6 OF 7
DESIGNED BY: CML		
CHECKED BY: CTR		

Erosion Control Notes

- State Construction General Permit (2009-0009-DWQ effective July 1, 2010):
 - This Erosion Control Plan has been prepared to meet the local public agency grading permit requirements only. Under the State Construction General Permit, a Storm Water Pollution Prevention Plan (SWPPP) must be prepared by a qualified SWPPP Developer (QSD) who will direct the requirements for compliance with the State's general construction permit as governed by the local agency. This erosion control plan is intended to be incorporated into the required SWPPP and updated accordingly based on the recommendations of the QSD or Qualified SWPPP Practitioner (QSP) as directed in the field, whose direction will supersede this plan accordingly.
 - A Waste Discharge Identification (WDID) Number, and the SWPPP should be stored at the construction site. The SWPPP shall be maintained and updated throughout the duration of the project and shall be readily available to City and State inspectors and updated to reflect current site conditions during construction. The construction permit can be downloaded at: www.waterboards.ca.gov/water_issues/programs/stormwater
 - Field conditions may vary and alternative Erosion and Sediment Controls (ESC) and Best Management Practices (BMPs) may be required. This plan shall be modified by the QSD / QSP to account for actual field conditions.
- Runoff: All runoff shall be treated utilizing Erosion and Sediment Controls (ESC) and Best Management Practices (BMPs) as identified in the Erosion Control Plan, SWPPP, and the recommendations of the QSD / QSP to the standards defined in the State Construction General Permit prior to discharging from the project site or to any type of private or public storm water conveyance system (natural watercourses, streets, gutters, concrete-lined v-ditches, storm drains, flow-lines, inlets, outlets, etc.). All un-treated discharges are prohibited from entering any storm water conveyance system year round.
- Erosion and Sediment Control (ESC): All ESC measures shall be inspected, restored, repaired or modified year-round throughout the site to protect perimeters, adjacent properties, environmentally-sensitive areas and all private/public storm water conveyance systems. If any erosion or sediment controls fail during any rain event, alternate measures shall be employed at the direction of the site QSD / QSP to more adequately address the erosion or sediment problems.
 - Erosion Controls: Erosion controls shall include, but are not limited to applying and establishing: vegetative cover, wood mulch, staples or pinned blankets (straw, coconut or other), polypropylene mats or spray-on controls to all disturbed areas. Jute netting shall not be used as a stand-alone erosion control. Hydrosseed with blown straw and/or a tackifier shall be utilized for all disturbed areas and fiber rolls shall be installed on slopes greater than or equal to 3:1 (at an appropriate interval).
 - Sediment Controls: Sediment controls shall include, but are not limited to: desilting basins, graded berms, fiber rolls, silt fences, check dams, drainage inlet protection, etc. Fiber rolls shall be installed at appropriate increments along the inside face of the slope. Silt fence or fiber rolls shall be installed along interior streets or inside the sidewalk, right-of-way, or back of curbs, with appropriate inlet protection measures employed.
- Best Management Practices (BMP's): Pollution prevention measures, also known as Best Management Practices (BMP's), must be installed year-round within 14 days of any field activities. BMP handbooks can be downloaded at www.cabmphandbooks.com. Additional BMP measures must be installed and maintained prior to and throughout each rainy season. The developer/contractor is responsible for BMP measures throughout the duration of the project for all clearing, disk, grading, excavating and stockpiling activities, and on all exposed slopes and inactive pads throughout the entire site. If any BMP fails during any rain event, alternate measures shall be employed at the direction of the site QSD / QSP to more adequately address the erosion or sediment problems.
 - Stockpiling of BMP's: Sufficient material for BMP implementation shall be stockpiled at various locations throughout the site for immediate use prior to any forecast rain event. In emergency situations, the developer/contractor shall immediately make equipment and workers available to protect the site.
- Perimeter Protection: Perimeter protection must be installed prior to any clearing activities. Clearing shall be limited to areas that will be immediately graded or disturbed. A combination of ESC measures shall be implemented in areas that have been cleared. All disturbed areas of an inactive site shall also be protected.
- Construction Access Points: Construction access points shall be stabilized with rock and/or shaker plates year-round to prevent track-out. Interior access points (all proposed driveways, material storage and staging area entrances/exists, etc) shall also be protected to prevent track-out onto interior streets. Street sweeping by vacuum track shall be performed on all paved streets where tracking is observed.
- Desilting Basins: Desilting basins shall be designed according to the guidance provided in CASQA's construction BMP handbook. Appropriate warning notice, such as signage indicating "Ponded Water - Do Not Enter" shall be posted.
- Material Storage: Material storage and staging areas shall be established. Field tanks, portable toilets, liquids, gels, powders, landscape materials and stockpiles of soil shall be stored away from all private/public storm water conveyance systems, sidewalks, right-of-ways and flow-lines and shall have secondary containment. Inactive stockpiles of soil shall be covered at all times. Active stockpiles shall be stabilized prior to a forecast rain event.
- Construction Waste: Construction waste and miscellaneous debris shall be placed in water-tight bins. Wire mesh receptacles shall not be allowed. Wash-out stations shall be provided for concrete, paints, stucco and other liquid waste, and shall be lined with plastic and located away from public right-of-ways, flow lines, etc. Prior to any forecast rain, bins and wash-outs shall be covered with lids or plastic tarps.
- Slope Protection: Storm water runoff shall be directed away from slopes where feasible. If runoff can't be redirected, additional ESC measures shall be utilized to maintain the slope integrity. ESC measures are required on all exposed slopes until sufficient/permanent landscape is established.
- Maintenance: All on-site and off-site drainage conveyance ditches, drains, gutters, check dams, silt fences and desilting basins shall be free of sediment, construction materials, waste, miscellaneous debris and deteriorated ESC measures year-round.



RECORD DRAWING
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 CHRISTIAN T. RAGAN
 RCE #60473



RIVER ISLANDS PARKWAY
EROSION CONTROL
 DEPARTMENT OF PUBLIC WORKS
 CITY OF LATHROP, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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

PLANS PREPARED UNDER THE DIRECTION OF:
 Christian T. Ragan
 BY: CHRISTIAN T. RAGAN RCE No. 60473

DATE: JULY 2020	RECOMMENDED FOR APPROVAL BY: DATE: _____	PROJECT NO. 25228.RIP.D
SCALE: _____	DESIGNED BY: EML	SHEET NO. C7
DRAWN BY: CML	CHECKED BY: CTR	SHEET Z OF Z

TRAFFIC SIGNAL MODIFICATION AND SIGNING & STRIPING PLANS

LATHROP, CALIFORNIA

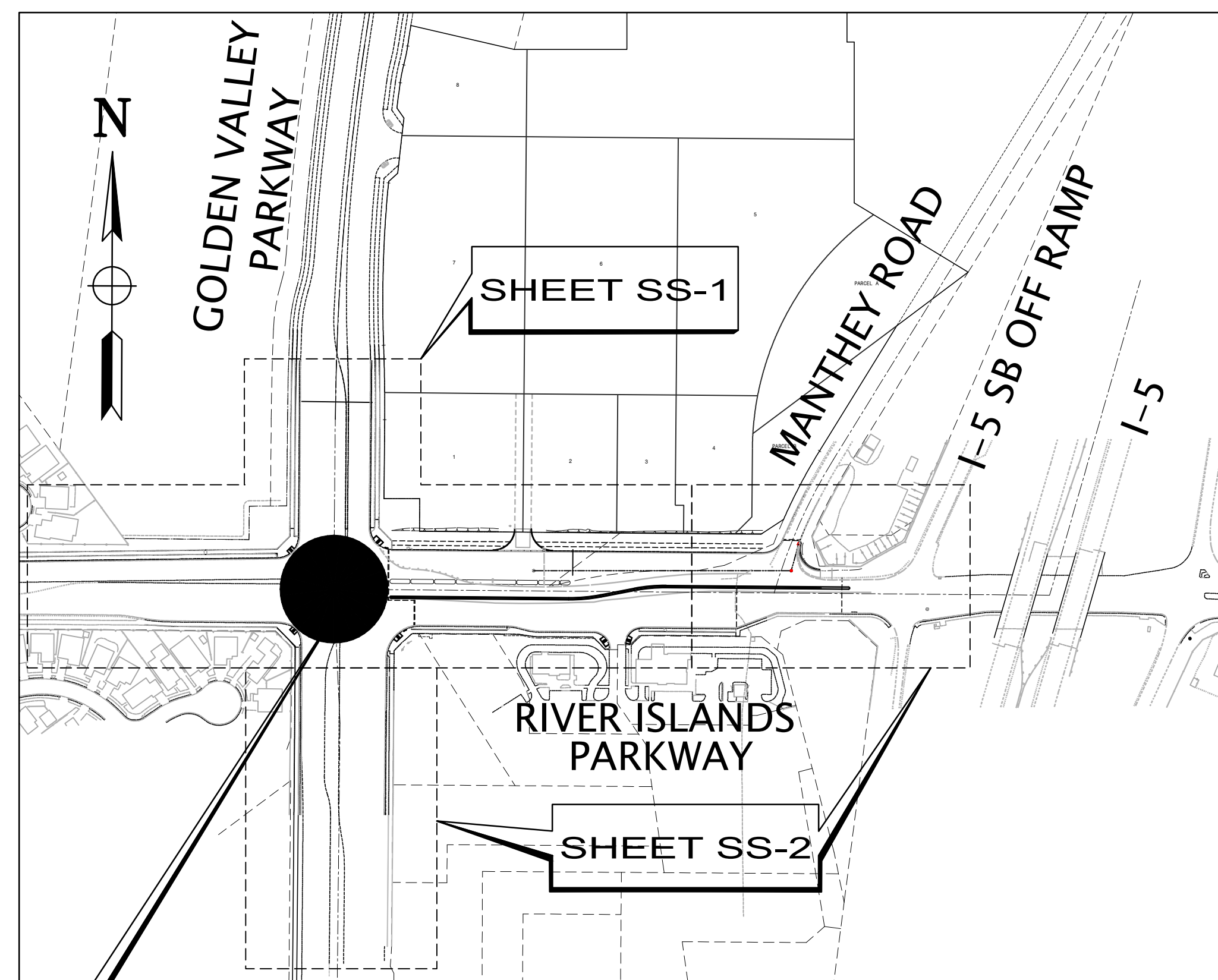
APRIL 2020

SHEET INDEX

No.	DRAWING	DESCRIPTION
1	T-1	TITLE SHEET
2	TS-1	TRAFFIC SIGNAL MODIFICATION PLAN
3	TS-2	CONDUCTOR AND EQUIPMENT SCHEDULES
4	SS-1	SIGNING AND STRIPING PLAN
5	SS-2	SIGNING AND STRIPING PLAN

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO CITY OF LATHROP ORDINANCES, STANDARD SPECIFICATIONS AND STANDARD DETAILS, THE 2018 EDITION OF THE STANDARD SPECIFICATIONS AND PLANS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, THE LATEST CALIFORNIA MUTCD, AND THE SPECIAL PROVISIONS.
- THE CONTRACTOR IS REQUIRED TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCING WORK.
- ALL UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS ARE SHOWN IN THEIR APPROXIMATE LOCATION AND EXTENT. THE CITY OF LATHROP IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INDICATED UNDERGROUND UTILITIES AND STRUCTURES NOR FOR THE EXISTENCE OF ANY OTHERS NOT SHOWN.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES AND STRUCTURES SHOWN AND ANY OTHERS FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK AND REQUEST ACCURATE LOCATION AND MARKING OF SAME.
- THE FOLLOWING TELEPHONE NUMBERS ARE PROVIDED FOR OBTAINING ASSISTANCE IN LOCATING UNDERGROUND UTILITIES AND EMERGENCIES: UNDERGROUND SERVICE ALERT (TOLL FREE, PROVIDE 48 HOUR NOTICE) 800-227-2600, CABLE TV (PROVIDE 48 HOUR NOTICE) 209-422-4622, AND CITY TRAFFIC ENGINEER 209-438-3271.
- ALL NEW EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS OF EQUIPMENT TO BE DETERMINED BY THE ENGINEER AT THE TIME OF INSTALLATION.
- ALL PULL BOXES SHALL BE No. 5 UNLESS OTHERWISE NOTE.
- ALL PEDESTRIAN SIGNAL HEADS SHALL BE AUDIBLE WITH LED COUNTDOWN.
- ALL IISNS ON SIGNAL MAST ARMS SHALL BE DOUBLE- FACED AND SHALL BE INSTALLED PER CITY REQUIREMENTS.
- ALL TRENCHING IN STREET AND UNDER SIDEWALKS SHALL BE DONE BY DIRECTIONAL BORING METHOD. NO ROCK WHEEL TRENCHING WILL BE ALLOWED.
- ALL CONDUIT RUNS, DETECTOR DLC RUNS, ETC. SHALL HAVE A MINIMUM OF 42" COVER FROM FINISH AC GRADE, UNLESS APPROVED BY THE CITY ENGINEERING DEPARTMENT TO A LESSER COVER.
- CONTRACTOR SHALL FURNISH AND INSTALL ASTRO-BRAC ADJUSTABLE MAST ARM SIGNAL MOUNTING.
- CONTRACTOR SHALL REMOVE ALL R1 "STOP" SIGNS AND "STOP" PAVEMENT LEGENDS. PAVEMENT SHALL BE RESTORED TO CITY REQUIREMENTS.
- ALL INTERCONNECT PULL BOXES SHALL BE No. 6E AND THE COVER SHALL BE MARKED "IC" OR "INTERCONNECT".
- THE INTERCONNECT CONDUIT SHALL BE PROVIDED WITH A GREEN #14 AWG PULL WIRE.

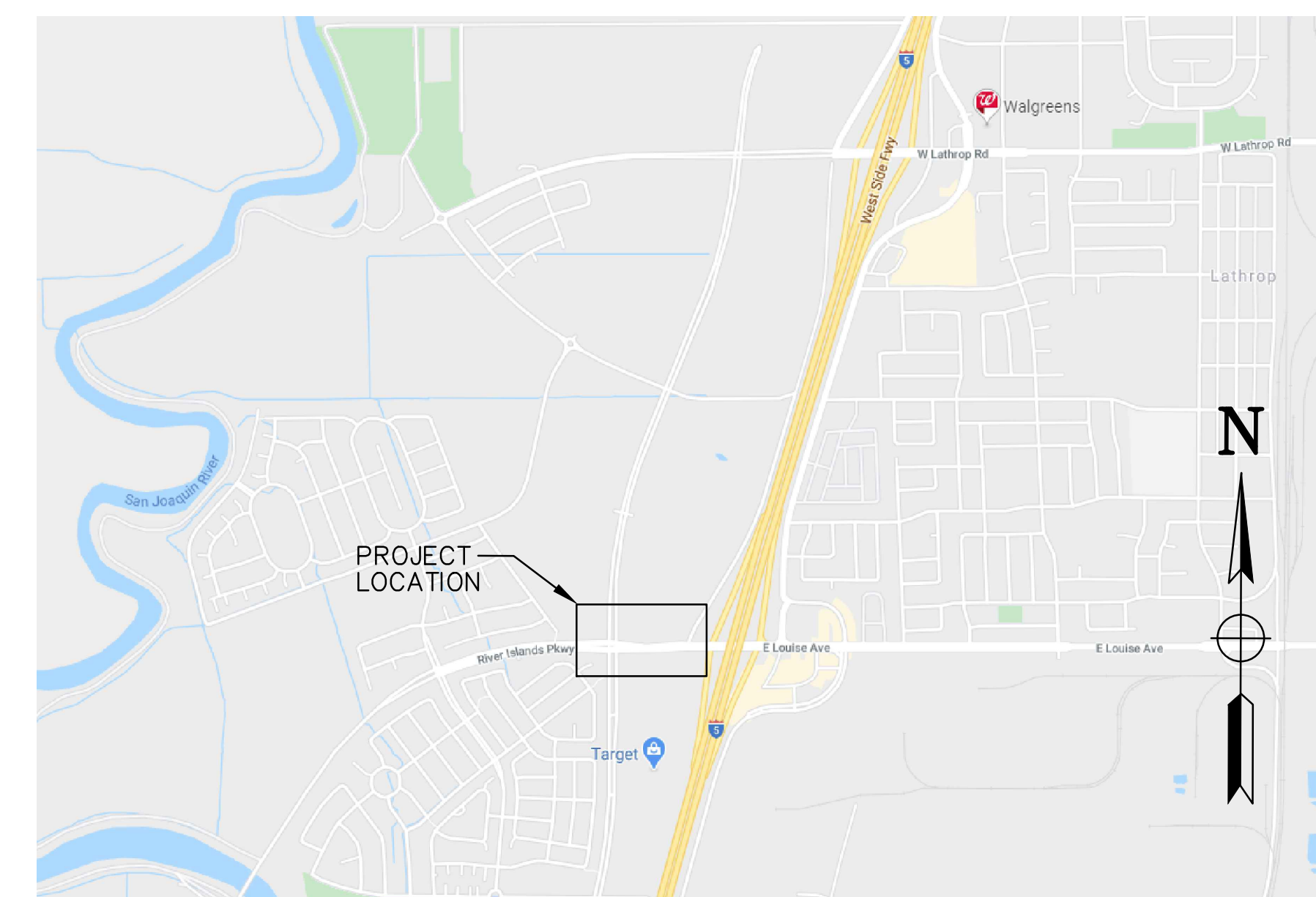


SHEET TS-1/TS-2

LOCATION MAP

N.T.S.

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



VICINITY MAP

N.T.S.

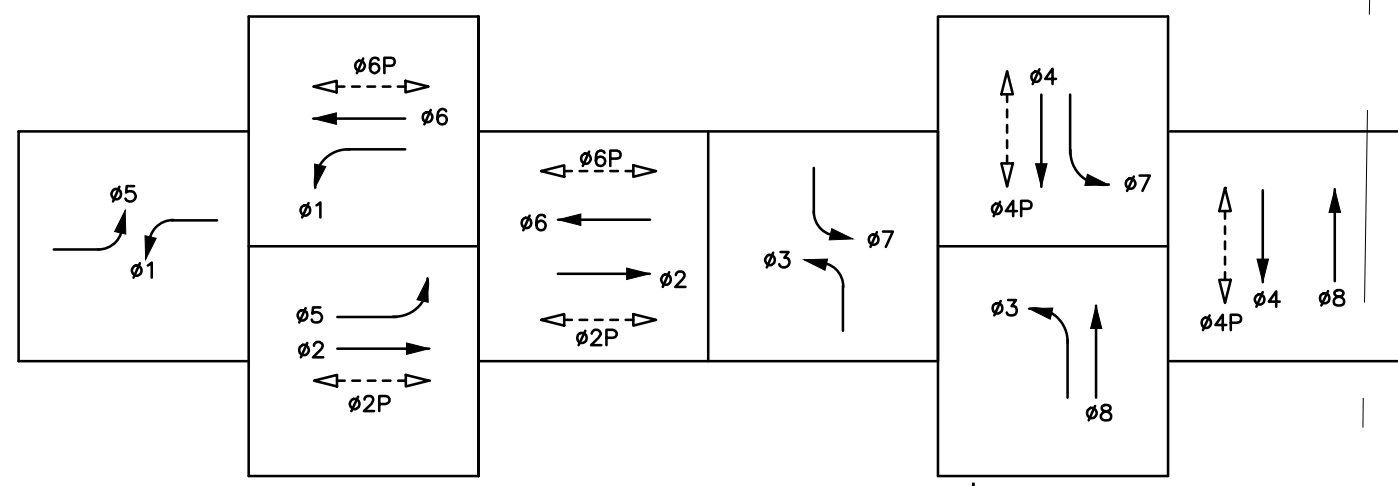
TJKM 4305 Hacienda Drive, Suite 550
 Pleasanton, CA 94588
 tjkm@tjkm.com

R.C.E. 15347
 DESIGNED: ESB
 DRAWN: AM
 CHECKED: ESB

REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 15347
 Exp. 3-31-21
 STATE OF CALIFORNIA

CITY OF LATHROP	
GOLDEN VALLEY PKWY AT RIVER ISLANDS PKWY	
TITLE SHEET	
DRAWING NO. T-1	SHEET 1 OF 5
DATE: JULY 2020	SCALE: NONE
PROJECT NO. 228-037	

STEADY DEMAND SEQUENCE



PROPOSED PHASE DIAGRAM

EMERGENCY VEHICLE PREEMPT (EVP)

- CHANNEL A = 02 + 05
- CHANNEL B = 04 + 07
- CHANNEL C = 06 + 01
- CHANNEL D = 08 + 03

3" c, 4#10 (LIGHTING), 4#10 (ISNS)
2#6 (SERVICE), 4 VIDEO DET
1#14(PEU)

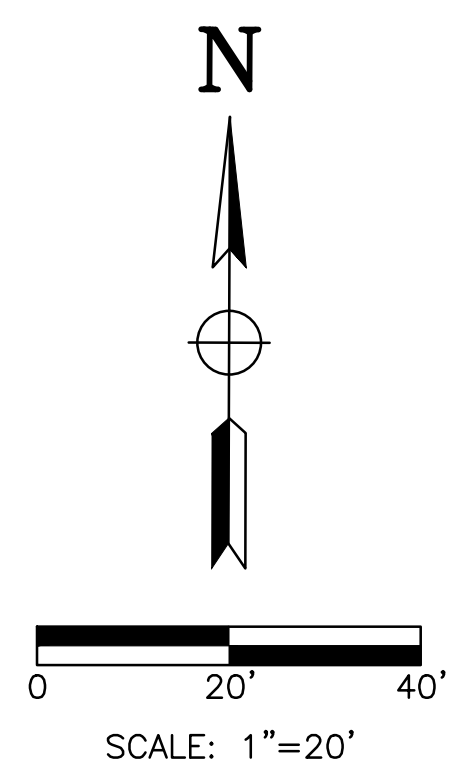
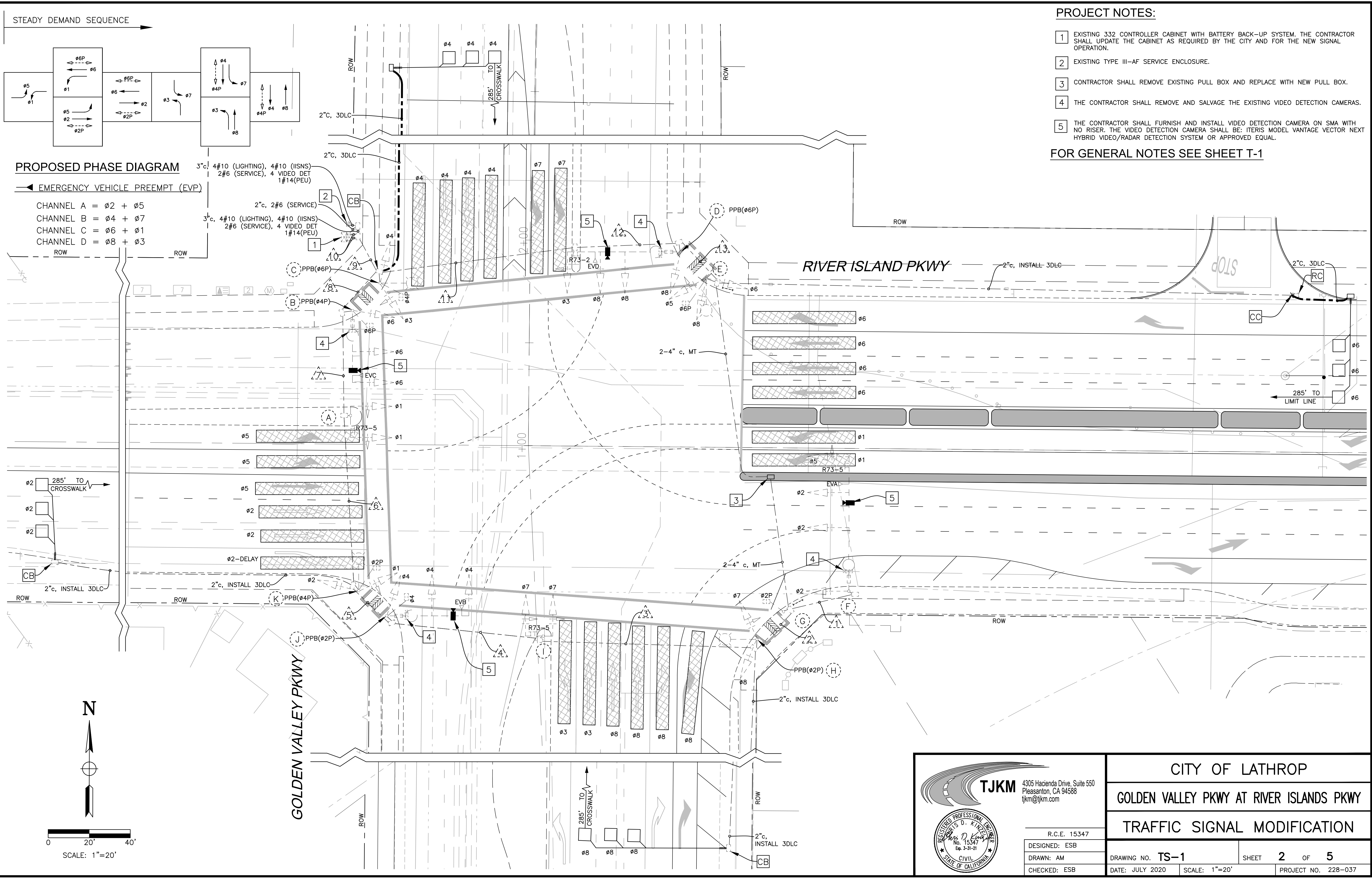
2" c, 2#6 (SERVICE)

3" c, 4#10 (LIGHTING), 4#10 (ISNS)
2#6 (SERVICE), 4 VIDEO DET
1#14(PEU)

PROJECT NOTES:

- 1 EXISTING 332 CONTROLLER CABINET WITH BATTERY BACK-UP SYSTEM. THE CONTRACTOR SHALL UPDATE THE CABINET AS REQUIRED BY THE CITY AND FOR THE NEW SIGNAL OPERATION.
- 2 EXISTING TYPE III-AF SERVICE ENCLOSURE.
- 3 CONTRACTOR SHALL REMOVE EXISTING PULL BOX AND REPLACE WITH NEW PULL BOX.
- 4 THE CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING VIDEO DETECTION CAMERAS.
- 5 THE CONTRACTOR SHALL FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SMA WITH NO RISER. THE VIDEO DETECTION CAMERA SHALL BE: ITERIS MODEL VANTAGE VECTOR NEXT HYBRID VIDEO/RADAR DETECTION SYSTEM OR APPROVED EQUAL.

FOR GENERAL NOTES SEE SHEET T-1



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

R.C.E. 15347
DESIGNED: ESB
DRAWN: AM
CHECKED: ESB

CITY OF LATHROP	
GOLDEN VALLEY PKWY AT RIVER ISLANDS PKWY	
TRAFFIC SIGNAL MODIFICATION	
DRAWING NO. TS-1	SHEET 2 OF 5
DATE: JULY 2020	PROJECT NO. 228-037

L:\CITIES\Lathrop\228-XXX SS Plans\CAD\228-XXX River Islands Pkwy at Golden Valley Pkwy 100%.dwg

CONDUCTOR TABLE															
AWG	CIRCUIT	RUNS													
		1	2	3	4	5	6	7	8	9	10	11	12	13	
NO. 14	Ø1						3	3	3	3	3				
	Ø2	3	3	3	3	3	3	3	3	3	3				
	Ø3									3	3	3	3		
	Ø4					3	3	3	3	3	3				
	Ø5	3	3	3	3	3	3	3	3	6	6	3	3	3	
	Ø6									3	6	6	3	3	3
	Ø7			3	3	3	3	3	3	3	3				
	Ø8		3	3	3	3	3	3	3	6	6	3	3	3	
	Ø2P		2	2	2	2	2	2	2	2	2				
	Ø4P					2	2	2	2	2	2				
	Ø6P									2	4	4	2	2	2
	Ø8P														
	PPB(Ø2P)			1	1	1	1	1	1	1	1				
	PPB(Ø4P)						1	1	1	1	1				
PPB(Ø6P)									1	1	1	1			
PPB(Ø8P)															
PPB COMMON			1	1	1	1	1	1	2	2	1	1			
SPARES	3	3	3	3	3	3	3	3	6	6	3	3	3		
PEU									3	3					
TOTAL No. 14	9	14	19	19	24	28	28	36	55	52	19	19	14		
NO. 10	SIGNAL NEUTRAL	1	1	1	1	1	1	1	1	2	2	1	1	1	
	LUMINAIRE	2	2	2	2	2	2	2	2	4		2	2	2	
	IISNS	2	2	2	2	2	2	2	2	4		2	2	2	
	TOTAL No. 10	5	5	5	5	5	5	5	5	10	2	5	5	5	
VIDEO DET.	VIDEO CABLE	(1)	(1)	(1)	(1)	(2)	(2)	(2)	(3)	(4)	(4)	(1)	(1)		
	TOTAL	1	1	1	1	2	2	2	3	4	4	1	1		
DLC *	Ø1														
	Ø2						(3)	(3)	(3)	(3)	(3)				
	Ø3														
	Ø4									(3)	(3)				
	Ø5									(3)	(3)	(3)	(3)	(3)	
	Ø6									(3)	(3)	(3)	(3)	(3)	
	Ø7														
Ø8			(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)					
TOTAL DLC			3	3	3	6	6	6	12	12	3	3	3		
OPTICOM CABLE	EVA	1	1	1	1	1	1	1	1	1					
	EVB					1	1	1	1	1					
	EVC								1	1	1				
	EVD									1	1	1	1		
TOTAL CABLES	1	1	1	1	2	2	2	3	4	4	1	1			
CONDUIT SIZE (INCHES)	3"	3"	2-4"	2-4"	4"	2-4"	2-4"	2-4"	2-4"	2-4"	2-4"	2-4"	2"		
PERCENT CONDUIT FILL	7%	9%	4%	4%	10%	6%	6%	8%	12%	12%	4%	4%	20%		

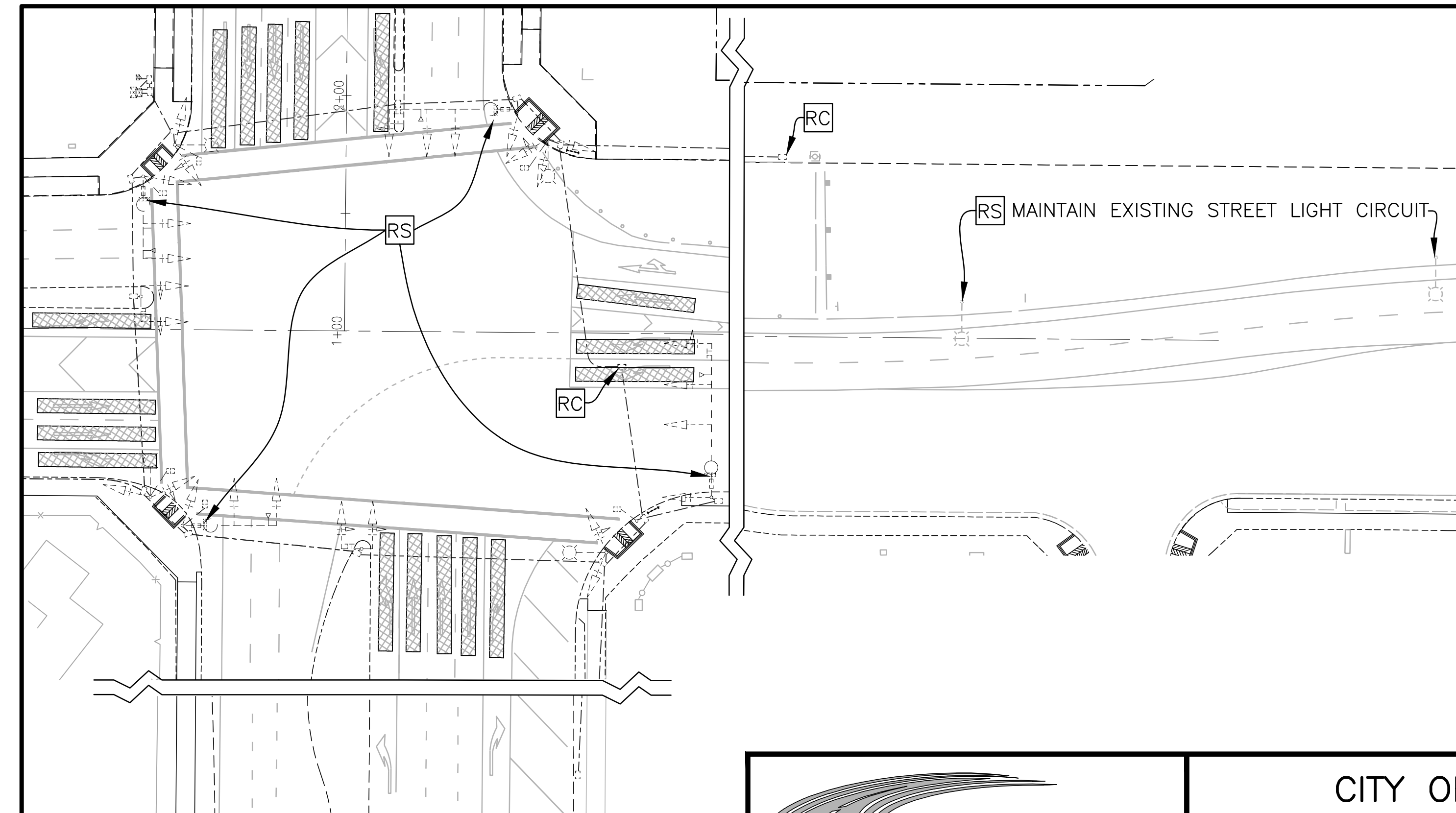
ALL CONDUCTORS/CONDUITS ARE EXISTING UNLESS NOTED OTHERWISE

() = NEW

* THE CONTRACTOR SHALL FOLLOW CALTRANS SPECS FOR INSTALLING NEW CONDUCTORS IN EXISTING CONDUITS WITH EXISTING CONDUCTORS. ALL CONDUCTOR/CABLES IN THESE CONDUITS SHALL BE REMOVED BACK TO THE CONTROLLER, THE CONDUITS CLEANED AND THEN ALL CONDUCTOR/CABLES PULLED BACK THROUGH THE EXISTING CONDUITS. NO SPLICING IS ALLOWED.

EQUIPMENT SCHEDULE											
No.	STANDARD			VEH SIG MTG	PED SIGNAL	APS		HPS	SPECIAL REQUIREMENTS		
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW	LUMINAIRE	
(A)	33LT	14'	-	MAS	-	-	-	-	-	-	EXISTING R73-5 SIGN ON SMA. EXISTING R4-7 SIGN ON SIGNAL POLE.
(B)	24-4-100	35'	15'	MAS	SV-1-T	6	SP-1-T	4	LEFT	200W	EXISTING IISNS "Golden Valley Parkway" AND OPTICOM CHANNEL "C" ON SMA. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SMA.
(C)	15TS	-	15'	-	SV-2-TA	4	SP-1-T	6	RIGHT	200W	
(D)	29-5-100	55'	15'	MAS	SV-1-T	-	-	6	LEFT	200W	EXISTING IISNS "River Islands Parkway", R72-2 SIGN, AND OPTICOM CHANNEL "D" ON SMA. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SMA.
(E)	15TS	-	15'	-	SV-3-TA	6	SP-1-T	-	-	200W	
(F)	61-5-100	65'	15'	MAS	SV-1-T	-	-	-	-	200W	EXISTING IISNS "Golden Valley Parkway", AND OPTICOM CHANNEL "A" ON SMA. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SMA. REMOVE EXISTING R73-2 AND INSTALL R73-5 ON SMA.
(G)	1-A (7')	-	-	-	-	2	TP-1-T	-	-	-	
(H)	15TS	-	15'	-	SV-2-TA	-	-	2	RIGHT	200W	
(I)	33LT	12'	-	MAS	-	-	-	-	-	-	REMOVE EXISTING R73-2 SIGN AND INSTALL R73-5 SIGN ON SMA.
(J)	26-4-100	40'	15'	MAS	SV-1-T	4	SP-1-T	2	LEFT	200W	EXISTING IISNS "Golden Valley Parkway" AND OPTICOM CHANNEL "B" ON SMA. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SMA.
(K)	15TS	-	15'	-	SV-2-TA	2	SP-1-T	4	RIGHT	200W	

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE



EXISTING EQUIPMENT REMOVAL PLAN
SCALE: 1"=40'

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

R.C.E. 15347
DESIGNED: ESB
DRAWN: AM
CHECKED: ESB

CITY OF LATHROP
GOLDEN VALLEY PKWY AT RIVER ISLANDS PKWY

CONDUCTOR AND EQUIPMENT SCHEDULES

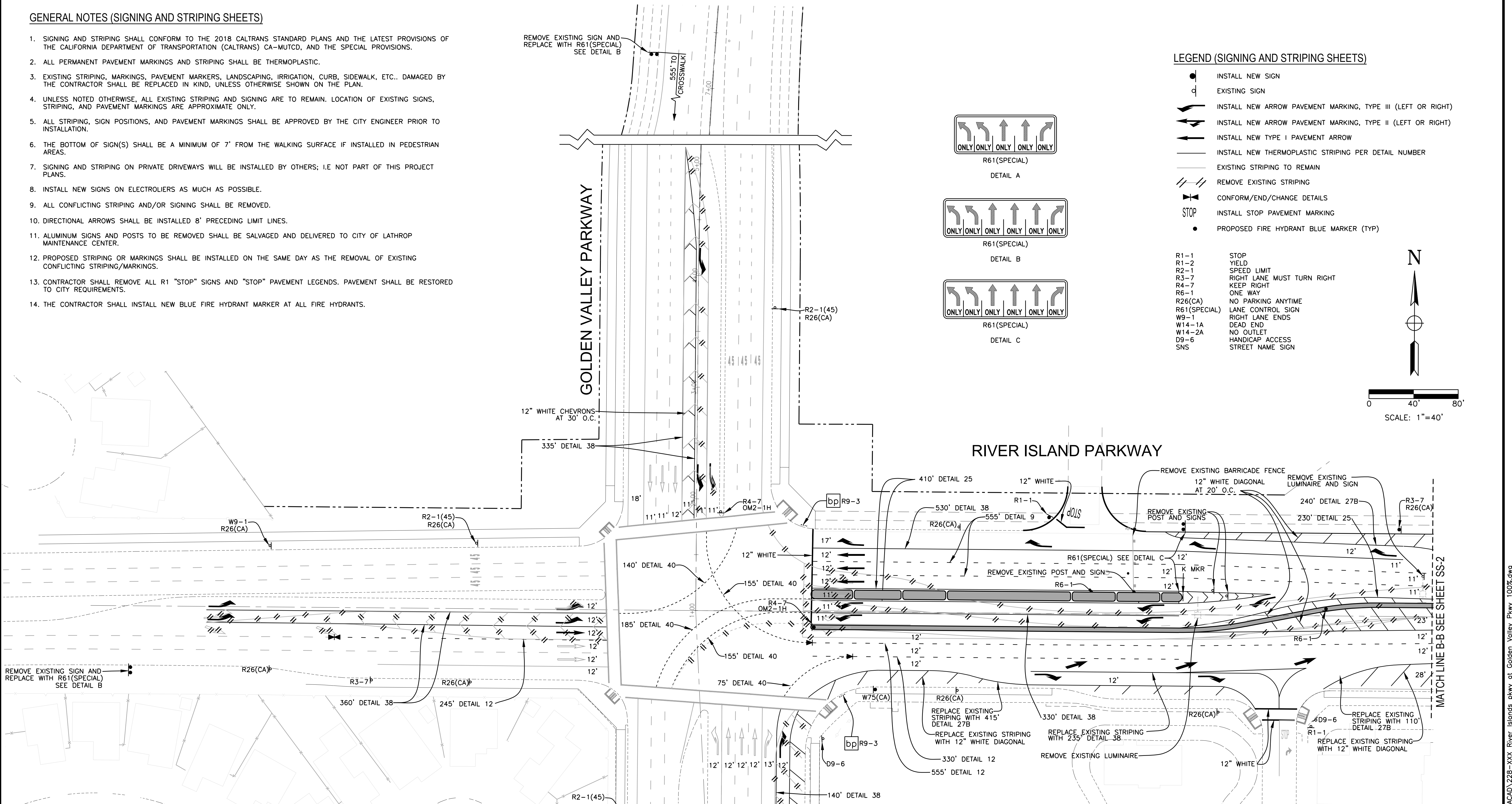
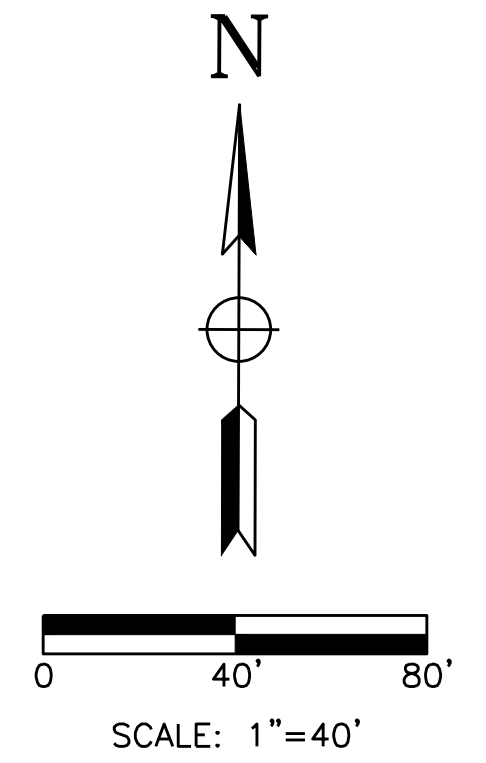
DRAWING NO. **TS-2** SHEET **3** OF **5**
DATE: JULY 2020 SCALE: NONE PROJECT NO. 228-037

GENERAL NOTES (SIGNING AND STRIPING SHEETS)

- SIGNING AND STRIPING SHALL CONFORM TO THE 2018 CALTRANS STANDARD PLANS AND THE LATEST PROVISIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) CA-MUTCD, AND THE SPECIAL PROVISIONS.
- ALL PERMANENT PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC.
- EXISTING STRIPING, MARKINGS, PAVEMENT MARKERS, LANDSCAPING, IRRIGATION, CURB, SIDEWALK, ETC.. DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND, UNLESS OTHERWISE SHOWN ON THE PLAN.
- UNLESS NOTED OTHERWISE, ALL EXISTING STRIPING AND SIGNING ARE TO REMAIN. LOCATION OF EXISTING SIGNS, STRIPING, AND PAVEMENT MARKINGS ARE APPROXIMATE ONLY.
- ALL STRIPING, SIGN POSITIONS, AND PAVEMENT MARKINGS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
- THE BOTTOM OF SIGN(S) SHALL BE A MINIMUM OF 7' FROM THE WALKING SURFACE IF INSTALLED IN PEDESTRIAN AREAS.
- SIGNING AND STRIPING ON PRIVATE DRIVEWAYS WILL BE INSTALLED BY OTHERS; I.E NOT PART OF THIS PROJECT PLANS.
- INSTALL NEW SIGNS ON ELECTROLIERS AS MUCH AS POSSIBLE.
- ALL CONFLICTING STRIPING AND/OR SIGNING SHALL BE REMOVED.
- DIRECTIONAL ARROWS SHALL BE INSTALLED 8' PRECEDING LIMIT LINES.
- ALUMINUM SIGNS AND POSTS TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO CITY OF LATHROP MAINTENANCE CENTER.
- PROPOSED STRIPING OR MARKINGS SHALL BE INSTALLED ON THE SAME DAY AS THE REMOVAL OF EXISTING CONFLICTING STRIPING/MARKINGS.
- CONTRACTOR SHALL REMOVE ALL R1 "STOP" SIGNS AND "STOP" PAVEMENT LEGENDS. PAVEMENT SHALL BE RESTORED TO CITY REQUIREMENTS.
- THE CONTRACTOR SHALL INSTALL NEW BLUE FIRE HYDRANT MARKER AT ALL FIRE HYDRANTS.

LEGEND (SIGNING AND STRIPING SHEETS)

- INSTALL NEW SIGN
 - EXISTING SIGN
 - INSTALL NEW ARROW PAVEMENT MARKING, TYPE III (LEFT OR RIGHT)
 - INSTALL NEW ARROW PAVEMENT MARKING, TYPE II (LEFT OR RIGHT)
 - INSTALL NEW TYPE I PAVEMENT ARROW
 - INSTALL NEW THERMOPLASTIC STRIPING PER DETAIL NUMBER
 - EXISTING STRIPING TO REMAIN
 - REMOVE EXISTING STRIPING
 - CONFORM/END/CHANGE DETAILS
 - INSTALL STOP PAVEMENT MARKING
 - PROPOSED FIRE HYDRANT BLUE MARKER (TYP)
-
- R1-1 STOP
 - R1-2 YIELD
 - R2-1 SPEED LIMIT
 - R3-7 RIGHT LANE MUST TURN RIGHT
 - R4-7 KEEP RIGHT
 - R6-1 ONE WAY
 - R26(CA) NO PARKING ANYTIME
 - R61(SPECIAL) LANE CONTROL SIGN
 - W9-1 RIGHT LANE ENDS
 - W14-1A DEAD END
 - W14-2A NO OUTLET
 - D9-6 HANDICAP ACCESS
 - SNS STREET NAME SIGN



BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
800-227-2600
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

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

R.C.E. 15347

DESIGNED: ESB
DRAWN: AM
CHECKED: ESB

CITY OF LATHROP

GOLDEN VALLEY PKWY AT RIVER ISLANDS PKWY

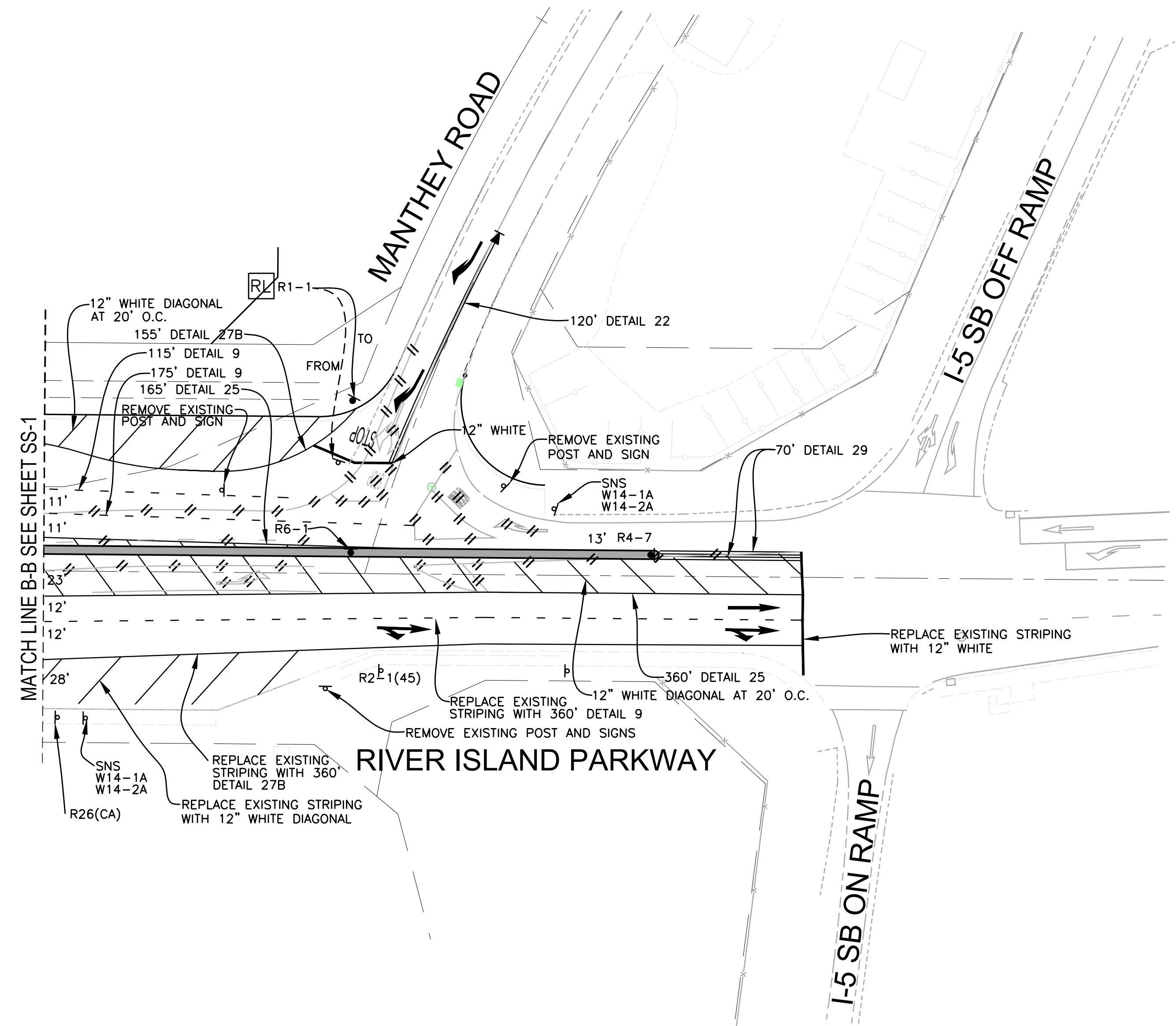
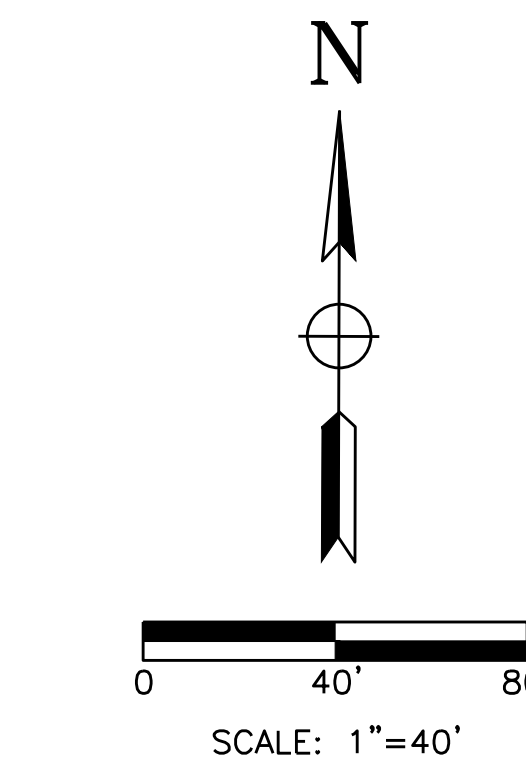
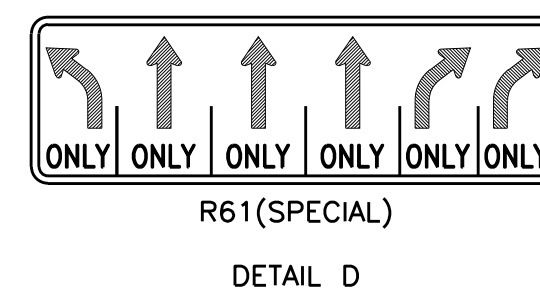
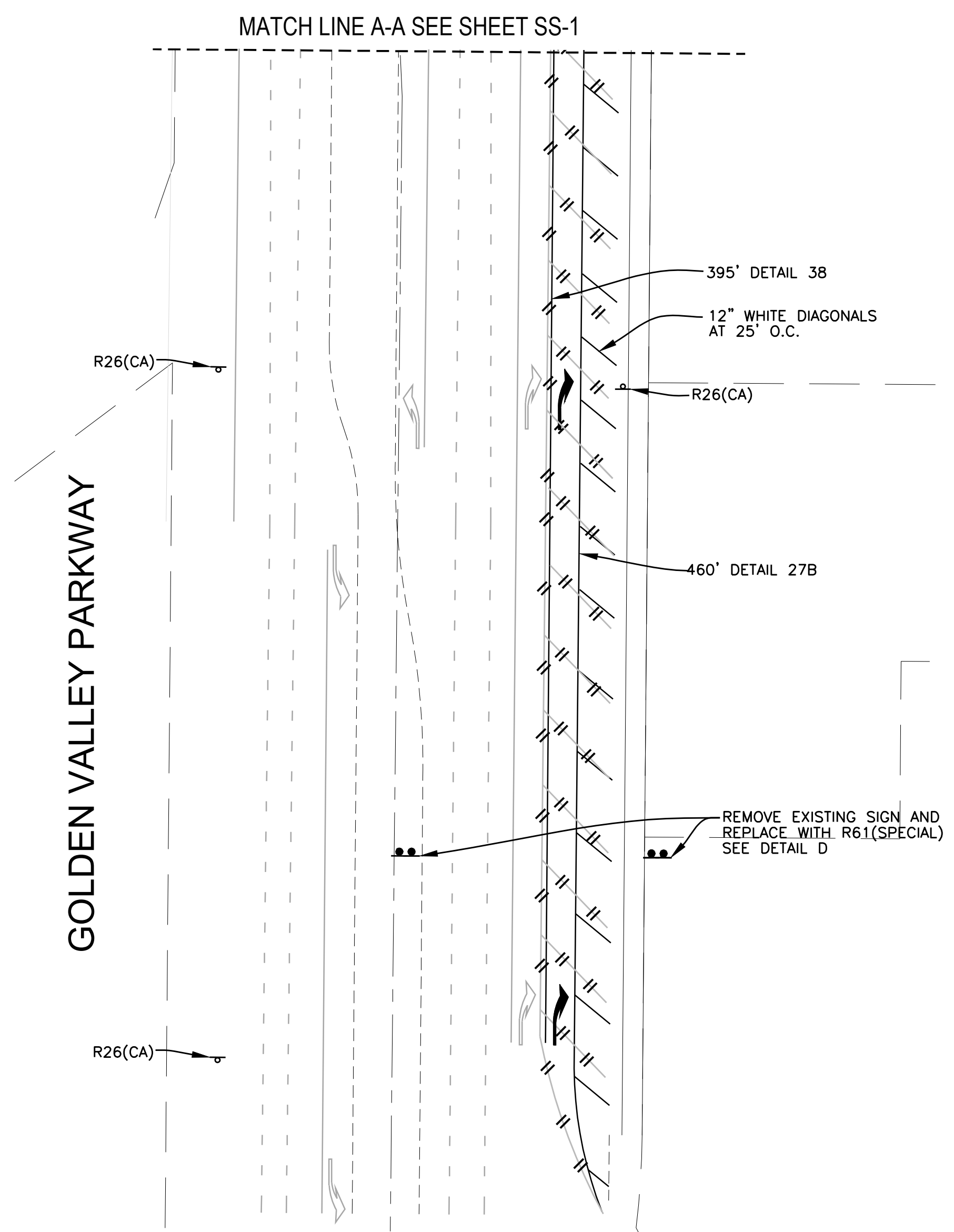
SIGNING AND STRIPING PLANS

DRAWING NO. SS-1 SHEET 4 OF 5

DATE: JULY 2020 SCALE: 1"=40' PROJECT NO. 228-037

L:\CITIES\Lathrop\228-XXX_SS_Plans\ACAD\228-XXX_River Islands pkwy at Golden Valley Pkwy 100%.dwg

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CALL U.S.A.
UNDERGROUND SERVICE ALERT
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TWO WORKING DAYS BEFORE ALL
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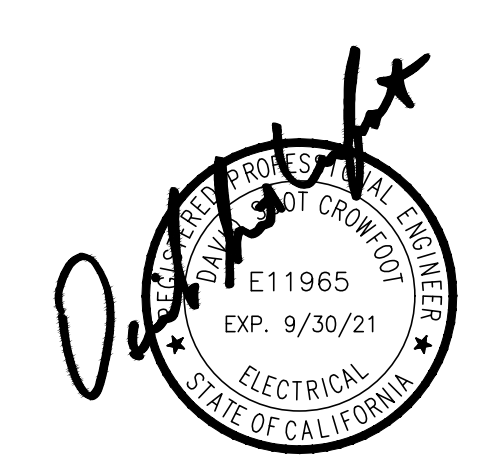
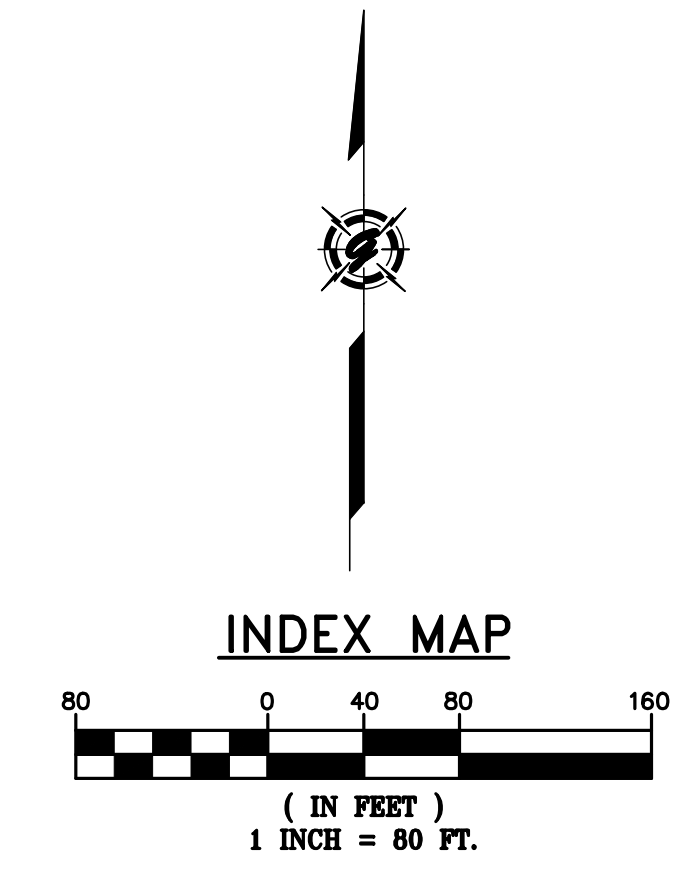
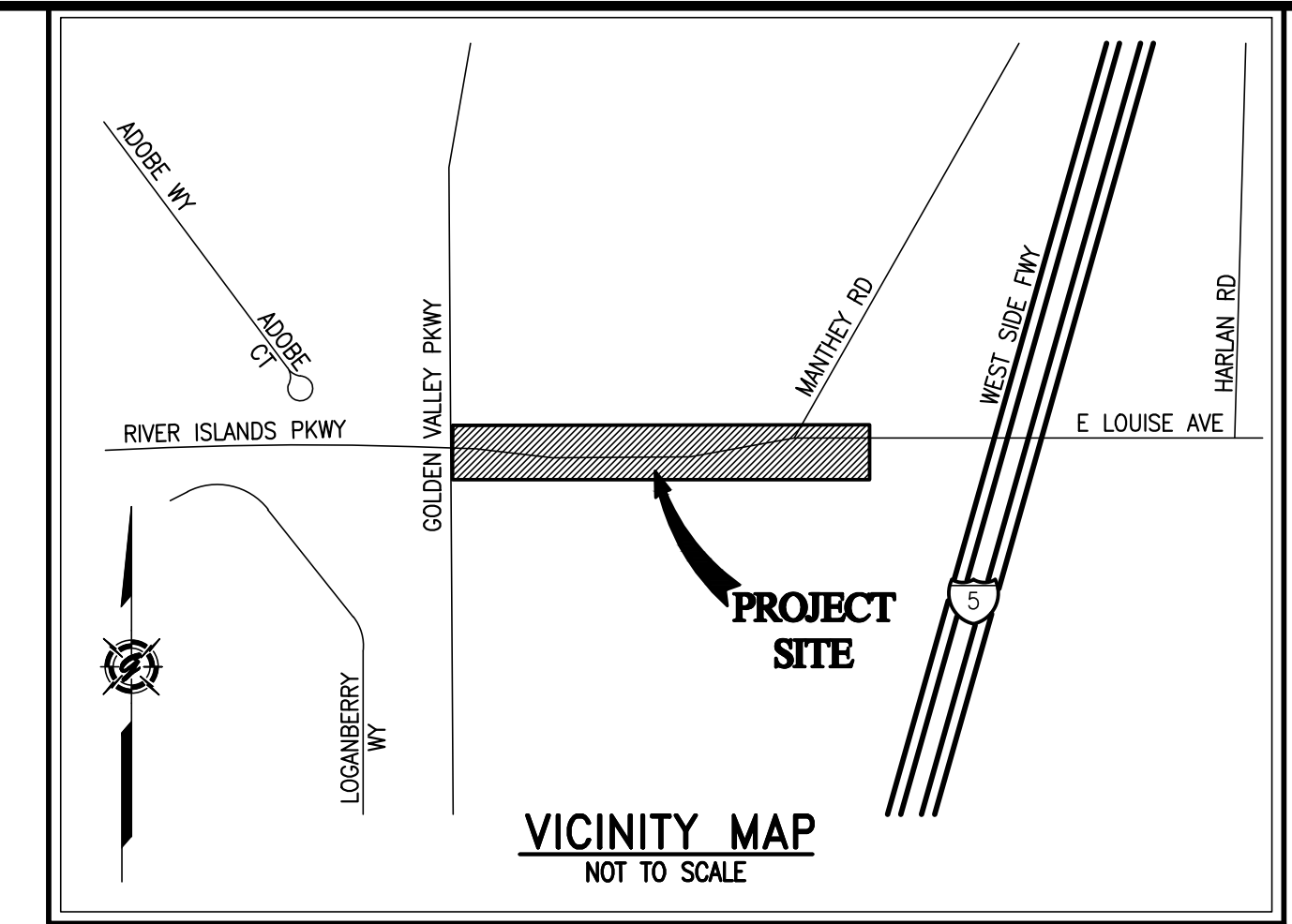


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DRAWN: AM
CHECKED: ESB

CITY OF LATHROP	
GREAT VALLEY PKWY & RIVER ISLAND PKWY	
SIGNING AND STRIPING PLANS	
DRAWING NO. SS-2	SHEET 5 OF 5
DATE: JULY 2020	PROJECT NO. 228-037

CITY OF LATHROP RIVER ISLANDS PARKWAY MANTHEY RD TO GOLDEN VALLEY PARKWAY LATHROP, CALIFORNIA



SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5200 STONERIDGE MALL RD., #545 | PLEASANTON, CA 94688
925-774-7140 | WWW.GIACALONEDSIGN.COM

JOINT TRENCH COMPOSITE TITLE SHEET
 CITY OF LATHROP
 RIVER ISLANDS PARKWAY
 MANTHEY RD TO GOLDEN VALLEY PARKWAY
 LATHROP CALIFORNIA

PROJECT MANAGER:
 SHAD JACOBE
 DRAWN BY:
 D.YOUNG
 CHECKED BY:
 LARRY CASKEY
 SCALE:
 1"=80'
 JOB NUMBER:
 20-092
 DATE LAST MODIFIED:
 08-06-20
 SHEET
JT1
 OF 5 SHEETS

PROJECT TEAM CONTACTS		
COMPANY:	CONTACT:	PHONE:
MACKAY & SOMPS	COLETTE L'HEUREUX & CHRIS RAGAN	925-225-0690
PG&E - STOCKTON	JAMES PARK	925-272-8660
AT&T	MICHAEL McCARLEY	209-474-4774
COMCAST	MAURICIO MORENO	209-628-8913
GIACALONE DESIGN SERVICES, INC.	SHAD JACOBE	925-467-1740

PG&E PM NO.

LATEST FILES RECEIVED				
DESCRIPTION:	BY:	DATE:	STATUS:	
GAS DESIGN	-	-	-	-
ELECTRIC DESIGN	PG&E	-	-	-
TELEPHONE LAYOUT	AT&T	-	-	-
CATV LAYOUT	COMCAST	-	-	-
STREET LIGHT PLANS - PUBLIC	GDSI	-	-	-
STREET LIGHT PLANS - PRIVATE	-	-	-	-
IMPROVEMENT PLANS (ELECTRONIC FILE)	MACKAY & SOMPS	06-05-20	-	-

A=Approved • ANS=Approved Not Signed • NA=Not Approved • F=First Submittal • SS=Second Submittal

PROJECT DESCRIPTION & SCOPE
<ul style="list-style-type: none"> STREET LIGHTING IN CENTER MEDIAN - (3) EXISTING TO BE RELOCATED & (2) PROPOSED. (EXISTING HPS TO BE UPGRADED WITH LED WITH RETROFIT KIT). EX. CATV BOX TO BE RELOCATED BEHIND CURB. EX. PG&E #7 VAULT TO REMAIN-PG&E TO REPLACE EXISTING FRAME & COVER WITH FULL VEHICLE TRAFFIC RATED FRAME & COVER. EX. AT&T MANHOLE TO REMAIN-CONTRACTOR TO ADJUST/RAISE RIM TO GRADE

SHEET INDEX	
SHEET	DESCRIPTION
JT1	JOINT TRENCH COMPOSITE TITLE SHEET
JT2	JOINT TRENCH GENERAL NOTES & DETAILS
JT3	JOINT TRENCH SECTIONS & DETAILS
JT4-JT5	JOINT TRENCH COMPOSITE PLAN
PuSL1	STREET LIGHTING TITLE SHEET
PuSL2	STREET LIGHTING SITE PLAN
PuSL3	STREET LIGHTING SITE PLAN

LABOR & CONSTRUCTION RESPONSIBILITY

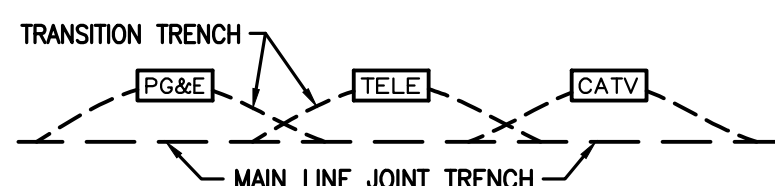
	PG&E	ELECTRIC	PG&E GAS	TELEPHONE	CATV	CONTRACTOR
1. TRENCHING: EXCAVATE, BACKFILL AND COMPACT	○	○	○	○	○	●
2. GAS MATERIAL: SUPPLY #INSTALL	○	○	○	○	○	○
3. ELECTRIC CABLE: SUPPLY #INSTALL	○	○	○	○	○	○
4. ELECTRIC CONDUIT: SUPPLY #INSTALL	○	○	○	○	○	○
5. ELECTRIC SPLICE BOXES: EXCAVATE SUPPLY #INSTALL	○	○	○	○	○	○
6. ELECTRIC TFM. ENCLS: EXCAVATE SUPPLY #INSTALL	○	○	○	○	○	○
7. ELECTRIC EQUIP. ENCLS.: EXCAVATE SUPPLY #INSTALL	○	○	○	○	○	○
8. ELECTRIC TRANS. PADS: GRADE SUPPLY #INSTALL	○	○	○	○	○	○
9. ELECTRIC SWITCH PADS: GRADE SUPPLY #INSTALL	○	○	○	○	○	○
10. TELEPHONE CONDUIT: SUPPLY #INSTALL	○	○	○	○	○	○
11. TELEPHONE CABLE: SUPPLY #INSTALL	○	○	○	○	○	○
12. TELEPHONE SPLICE BOXES: EXCAVATE SUPPLY #INSTALL	○	○	○	○	○	○
13. TELEPHONE INTER PADS: GRADE SUPPLY #INSTALL	○	○	○	○	○	○
14. CATV CONDUITS: SUPPLY INSTALL	○	○	○	○	○	○
15. CATV SPLICE BOXES: EXCAVATE SUPPLY INSTALL	○	○	○	○	○	○
16. STREET LIGHTING: EXCAVATE SUPPLY INSTALL	○	○	○	○	○	○

THE ● ABOVE DESIGNATES THE WORK TO BE PERFORMED BY THE CONTRACTOR AND EACH UTILITY COMPANY.

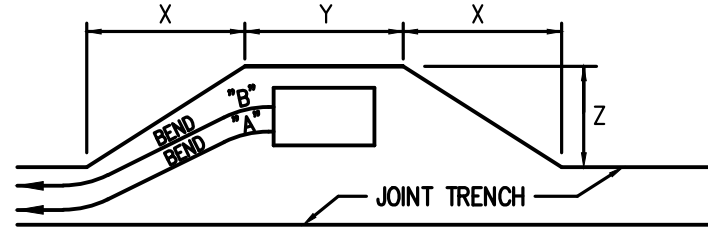
STREET LIGHTING NOTES

- FOR STREET LIGHT LOCATIONS & CIRCUITRY SEE STREET LIGHT PLANS SHEETS PUSL1-PUSL3.
- STREET LIGHT CONDUIT INSTALLED IN SEPARATE TRENCH. REFER TO J.T. COMPOSITE PLANS FOR LOCATION OF STREET LIGHT TRENCH.

JOINT TRENCH TRANSITION



- CONTRACTOR TO EXCAVATE TRANSITIONS FROM MAIN-LINE TRENCH TO VAULTS AS REQUIRED BY EACH UTILITY.
- TRANSITIONS NOT SHOWN ON COMPOSITE DRAWING FOR CLARITY.
- CONTRACTOR TO INCLUDE COST OF TRANSITIONS IN VAULT EXCAVATION COST.

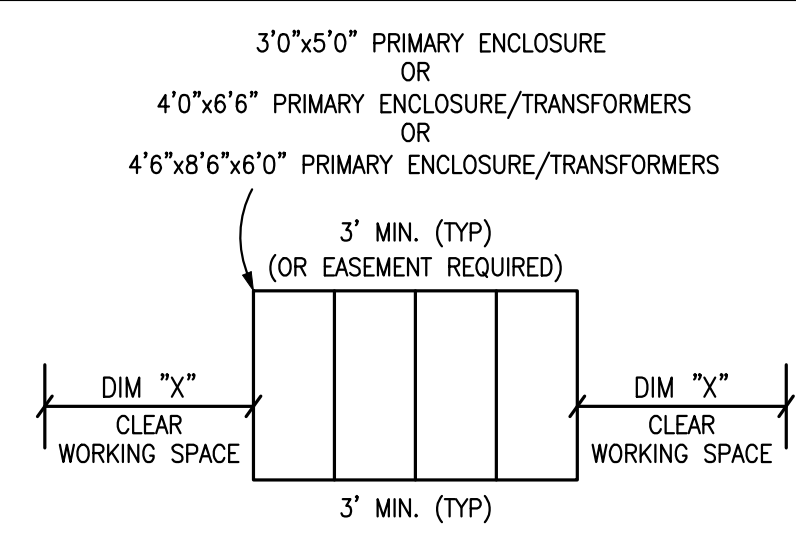


PRIMARY BOX SIZE	DISTANCE	WHEN CONDUIT ENTERS BOX ● "A"	
3'x5'	24'	7'	5'
4'6"x8'6"	24'	11'	7'

PRIMARY BOX SIZE	DISTANCE	WHEN CONDUIT ENTERS BOX ● "B"	
3'x5'	32'	7'	5'
4'6"x8'6"	32'	11'	7'

TYPICAL PRIMARY BOX EXCAVATION USING A CONDUIT SYSTEM
NOT TO SCALE

PG&E PRIMARY ENCLOSURE CLEARANCES



DIM "X"
3' MIN. 3'0"x5'0" ENCLOSURES
4' MIN. 4'0"x6'6" ENCLOSURES
5' MIN. 4'6"x8'6"x6'0" ENCLOSURES
NOT TO SCALE

JOINT TRENCH CONTRACTORS NOTES

- THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL INSTALLATIONS INSPECTED AND APPROVED BY THE RESPECTIVE UTILITY COMPANY, MUNICIPALITY, OR SOILS ENGINEER PRIOR TO ANY BACK FILLING. (48 HOUR NOTICE)
- CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING AROUND ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER AND SAFETY PRECAUTIONS AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POINTS OF ACCESS THAT ARE AGREEABLE TO ADJACENT LAND USES AND TENANTS AT ALL TIMES.
- THE CONTRACTOR TO BE AWARE THAT THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE BASED UPON RECORD DATA MADE AVAILABLE BY PG&E, TELEPHONE, CATV, IMPROVEMENT PLANS AND CITY RECORDS. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE PRECISE LOCATION OF ALL UNDERGROUND FACILITIES. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) (811) AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO START OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION WITH THE RESPECTIVE UTILITY AGENCIES, ALLOWING 48 HOURS PRIOR TO THE NEED FOR INSTALLATIONS.
- THE CONTRACTOR SHALL NOTIFY DEVELOPER 48 HOURS PRIOR TO THE NEED FOR SURVEY STAKING. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKING SET BY THE DEVELOPERS SURVEYORS AND WILL BE BACK CHARGED FOR ANY RE-STAKING THAT IS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE ALL EXISTING FACILITIES. EXCAVATION MAY BE REQUIRED OVER, UNDER OR ADJACENT TO EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT ALL EXISTING FACILITIES. THE CONTRACTOR IS RESPONSIBLE TO BID THE WORK BASED ON THE REVIEW OF THE IMPROVEMENT PLANS IN CONJUNCTION WITH THESE PLANS.
- IT'S THE CONTRACTOR/DEVELOPER RESPONSIBILITY TO MAKE SURE THAT THE MOST CURRENT SET OF PLANS ARE BEING USED. CALL GIACALONE DESIGN SERVICES, INC. (925) 467-1740 TO VERIFY.
- THE CONTRACTOR SHALL COORDINATE ALL TIE-INS WITH UTILITY COMPANIES AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE TIE-IN HOLE TO 12" BELOW EXISTING GAS MAIN FOR PG&E GAS TIE-IN(S) UNLESS OTHERWISE NOTED ON PLANS.
- JOINT TRENCH FACILITIES SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL CLEARANCE FROM EDGE OF JOINT TRENCH TO EDGE OF "WET" UTILITIES WITH A MINIMUM 6" VERTICAL CLEARANCE WHEN CROSSING (U.O.N). THE CONTRACTOR SHALL REFER TO PG&E UO STANDARD S5453 FOR ADDITIONAL INFORMATION.
- TRANSITION TRENCH FOR VAULTS/PEDESTALS NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL PROVIDE INCIDENTAL TRENCHING AS REQUIRED FOR CONDUIT/CABLE ROUTING INTO VAULTS/PEDESTALS. CONTRACTOR SHALL INCLUDE COST OF TRANSITION TRENCH IN VAULT/PEDESTAL EXCAVATION COST.
- THE CONTRACTOR SHALL OFFSET VAULTS/PEDESTALS AS REQUIRED FOR CONDUIT/CABLE ROUTING.
- THE CONTRACTOR SHALL FIELD ADJUST VAULTS/PEDESTALS AS REQUIRED TO AVOID CONFLICTS WITH DRIVEWAYS, SIDEWALKS, HANDICAP RAMPS, FIRE HYDRANTS, WATER & SEWER LATERALS, ETC.
- SERVICE LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THEIR EXACT LOCATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL FIELD ADJUST SERVICE STUB AND CROSSING LOCATIONS AS REQUIRED TO AVOID CONFLICTS WITH OTHER FACILITIES.
- SERVICE COMPLETION TRENCHES SHALL BE INSTALLED AFTER CURB AND GUTTER, UNLESS DIRECTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE ADDITIONAL MOVE-INS AS NECESSARY TO COMPLETE THE SERVICES TO EACH INDIVIDUAL UNIT WITH THE DEVELOPER, UTILITY COMPANIES & ALL INVOLVED AGENCIES. THE COST OF THESE MOVE-INS SHALL BE INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR TRENCHING.
- EDGE OF SPLICE BOXES & PEDESTALS SHALL BE 5' FROM EDGE OF F.H. AND 3' FROM STREET LIGHT (TYP.) CONTRACTOR TO AVOID DISTURBING F.H. THRUST BLOCK.
- THE CONTRACTOR SHALL PERFORM ALL TRENCHING, EXCAVATING, BACKFILLING, INSTALLATION AND ALL OTHER WORK AS SHOWN OR NOTED ON THESE PLANS & SPECIFICATIONS.
- ALL TRENCHES, BOXES AND CONDUIT LAYOUTS IN THIS PLAN SET ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL INSTALL ALL UTILITY VAULTS, PADS, CONDUITS, ETC. IN PROPER RELATION TO FINAL GRADE. VERIFY ALL SUBSTRUCTURE EXCAVATION DIMENSIONS WITH SUPPLIERS PRIOR TO EXCAVATION.
- ALL JOINT TRENCH CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD PRACTICES AND SPECIFICATIONS OF EACH PARTICIPATING UTILITY COMPANY AND CONFORM TO THE CURRENTLY ADOPTED EDITIONS OF THE STANDARD PLANS AND SPECIFICATIONS OF THE CITY OR COUNTY INVOLVED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK.
- THE BOTTOM OF ALL TRENCHES SHALL BE CLEARED OF ROCKS AND ALL OTHER HARD SURFACE MATERIAL. A SAND BEDDING OF AT LEAST 2" (TWO INCHES) SHALL BE PROVIDED ON WHICH THE UTILITIES WILL BE PLACED. (MAY NOT BE REQUIRED IN NATIVE SAND AREAS, CONSULT WITH LOCAL AGENCIES).
- THE CONTRACTOR SHALL NOTIFY GIACALONE DESIGN SERVICES, INC. OF ANY DIFFERENCES IN THE ACTUAL LOCATION OF EXISTING FACILITIES FROM THAT SHOWN IN THESE PLANS, OR ANY OTHER CONFLICTS WITH THE DESIGN. PRIOR TO CONTINUING WORK IN THAT AREA, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING GIACALONE DESIGN SERVICES, INC.
- GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY DIFFERENCES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID.
- THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS BETWEEN EXISTING AND PROPOSED FACILITIES WITH THE RESPECTIVE UTILITY INSPECTOR. ALL EXISTING CONDUIT TO BE USED SHALL BE MANDREL TESTED AND PROVED PRIOR TO MAKING CONNECTION AS DIRECTED BY THE GOVERNING INSPECTOR. UTILITY COMPANIES SHALL MAKE ALL "HOT" TIE-INS AND CONNECTIONS. THE CONTRACTOR SHALL NOT ENTER OR WORK ON ANY ENERGIZED FACILITIES UNLESS DIRECTED BY THE UTILITY INSPECTOR. THIS COST SHALL BE INCLUDED IN CONTRACTOR BID.
- THE CONTRACTOR IS REQUIRED TO EXCAVATE "BELL HOLES" AT THE TIE-IN LOCATIONS AS REQUIRED BY THE UTILITY COMPANIES.
- TRENCHING AND/OR SUBSTRUCTURE EXCAVATIONS MAY TAKE PLACE OVER, UNDER, OR ADJACENT TO OTHER UNDERGROUND FACILITIES (STORM, SEWER, WATER, ETC.). THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT IN PLACE ALL EXISTING FACILITIES. THIS WORK SHALL NOT BE CONSIDERED AS EXTRA WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL IMPROVEMENT AND GRADING PLANS, IN CONJUNCTION WITH THESE PLANS, AND BID HIS WORK ACCORDINGLY.
- THE RESPECTIVE UTILITY INSPECTOR WILL DETERMINE IN THE FIELD IF RETAINING WALLS WILL BE NEEDED TO MEET THE MINIMUM CLEARANCE REQUIREMENTS. REFER TO THE PG&E "GREEN BOOK" STANDARD DRAWING 051122 FOR APPROVED RETAINING WALL REQUIREMENTS. RETAINING WALLS ARE THE DEVELOPERS RESPONSIBILITY AND ARE NOT INCLUDED IN THIS CONTRACT.
- THE CONTRACTOR SHALL "RED-LINE" (1) ONE SET OF THE JOINT TRENCH COMPOSITE PLANS AND (2) TWO SETS OF THE GAS AND ELECTRIC PLANS WITH "AS-BUILT" INFORMATION AND GIVE TO THE DEVELOPER PRIOR TO SPLICING OF THE PRIMARY ELECTRIC SYSTEM.
- CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.
- SUBSTRUCTURES MUST HAVE 12" MINIMUM CLEARANCE FROM JOINT TRENCH.

GENERAL NOTES

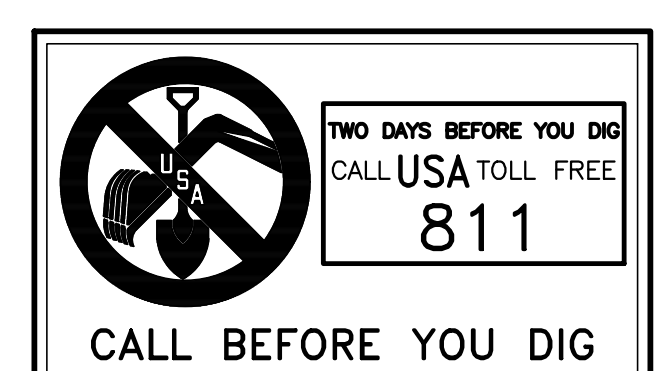
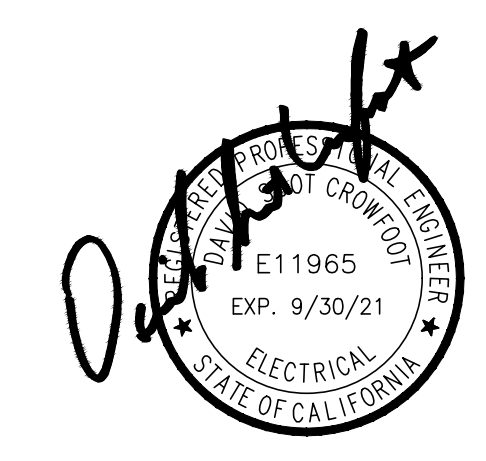
- PG&E'S UO STANDARD S5453 TO BE UTILIZED FOR ALL TRENCHING, BACK-FILLING, AND INSTALLATION WORK.
- SHOULD A DISPUTE OR DISAGREEMENT OVER ANY INSTALLATION, DESIGN, PLAN, OR DRAWING OCCUR THE SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANY AND THEIR INSPECTOR SHALL TAKE PRECEDENCE.
- GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE QUALITY, QUANTITY OR TIMING OF WORK BY CONTRACTOR, UTILITY COMPANY CONSTRUCTION CREWS OR OTHER SUBCONTRACTORS TO THE DEVELOPER.
- THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COMPLEMENTARY TO ONE ANOTHER. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS SHALL BE CONSIDERED OF LIKE EFFECT AS IF APPEARING IN BOTH. CONTACT GIACALONE DESIGN SERVICES, INC. PRIOR TO START OF WORK OR SUBMITTAL OF BID IF A DISCREPANCY IS FOUND.
- CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACK FILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.
- GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE PROJECT AND SITE PRIOR TO SUBMITTING HIS BID.
- ALL LENGTHS SHOWN ON THESE PLANS ARE ESTIMATES. FINAL QUANTITIES SHALL BE BASED ON WHAT WILL BE NEEDED TO COMPLETE THIS PROJECT. DUE TO CHANGES, ADDITIONS, DELETIONS OR OMISSIONS FINAL QUANTITIES MAY VARY.
- SHOULD A CONFLICT ARISE BETWEEN FACILITIES SHOWN ON THESE PLANS AND IMPROVEMENT PLANS FOR THIS PROJECT, THE IMPROVEMENT PLANS SHALL TAKE PRECEDENCE. CONTACT GIACALONE DESIGN SERVICES, INC. (925) 467-1740 IF A PROBLEM SHOULD OCCUR.
- ALL TRANSFORMERS AND TRANSFORMER PADS ARE TO BE INSTALLED PER PG&E SPECIFICATIONS. PROTECTIVE BOLLARDS ARE TO BE PLACED WHERE NEEDED AS DIRECTED BY UTILITY INSPECTOR.
- THE MINIMUM TRENCH WIDTHS AND DEPTHS SHOWN ARE BASED ON THE MINIMUM UTILITY COMPANY REQUIREMENTS FOR WIDTH, DEPTH AND SEPARATIONS. THE CONTRACTOR SHALL EXCAVATE FOR ADDITIONAL WIDTH OR DEPTH WHERE THE PROPOSED JOINT TRENCH FACILITIES APPROACH AND CROSS OTHER EXISTING UTILITY LINES (STORM DRAIN, SEWER, WATER, ETC.) TO ADEQUATELY CLEAR THESE FACILITIES. THE JOINT TRENCH FACILITIES MAY BE PLACED EITHER BELOW OR ABOVE THE EXISTING UTILITY LINES WITH AT LEAST 6" FREE CLEARANCE BETWEEN THE EXISTING UTILITY LINES BEING CROSSED, OR SUCH GREATER MINIMUM DISTANCE AS MAY BE REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY OR OTHER PUBLIC REGULATORY AGENCY. (SEE MINIMUM COVER AND CLEARANCE TABLE)
- TRENCH SECTIONS SHOWN ARE SCHEMATIC AND INDICATE AREAS OF OCCUPANCY ONLY. THEY DO NOT REFLECT THE SIZE OR QUANTITY OF THE FACILITIES BEING INSTALLED AND ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS SHOWN ON EACH TRENCH PARTICIPANTS' CONSTRUCTION DRAWINGS. REFER TO THE COMPOSITE, CONDUIT, STREETLIGHT PLAN AND/OR EACH RESPECTIVE UTILITY COMPANIES CONSTRUCTION DRAWINGS FOR THE NECESSARY CONDUIT, CABLE AND/OR PIPE BEING INSTALLED.
- RESPECTIVE UTILITY TO OBTAIN CITY OR COUNTY APPROVAL OF ALL ABOVE GROUND EQUIPMENT.
- ALL BOXES TO BE INSTALLED WITHIN THE R/W AND/OR PUE AREA.
- ANY QUESTIONS OR UNCERTAINTIES REGARDING REMOVAL AND/OR REPLACEMENT OF EXISTING HARDSCAPE OR LANDSCAPE SHALL BE COORDINATED WITH THE DEVELOPER AND/OR OTHER PARTIES/AGENCIES INVOLVED.
- A 3 FOOT CLEAR & LEVEL WORKING AREA MUST BE MAINTAINED AROUND ALL ELECTRIC ENCLOSURES. EXCEPT 4'-6"x8'-6" VAULTS WHICH SHALL MAINTAIN A 5 FOOT MINIMUM CLEAR & LEVEL WORKING AREA ON THE SHORT SIDES AND 3 FOOT ON THE LONG WALL SIDES; PAD MOUNT EQUIPMENT SHALL MAINTAIN AN 8 FOOT CLEAR & LEVEL WORKING AREA IN FRONT OF EQUIPMENT DOORS AND 3 FOOT CLEAR ON SIDES & BACK, UNLESS DIRECTED OTHERWISE BY INSPECTOR. REFER TO THE PG&E "GREEN BOOK" STANDARD DRAWING 051122 FOR ADDITIONAL CLEARANCE PROTECTION REQUIREMENTS.

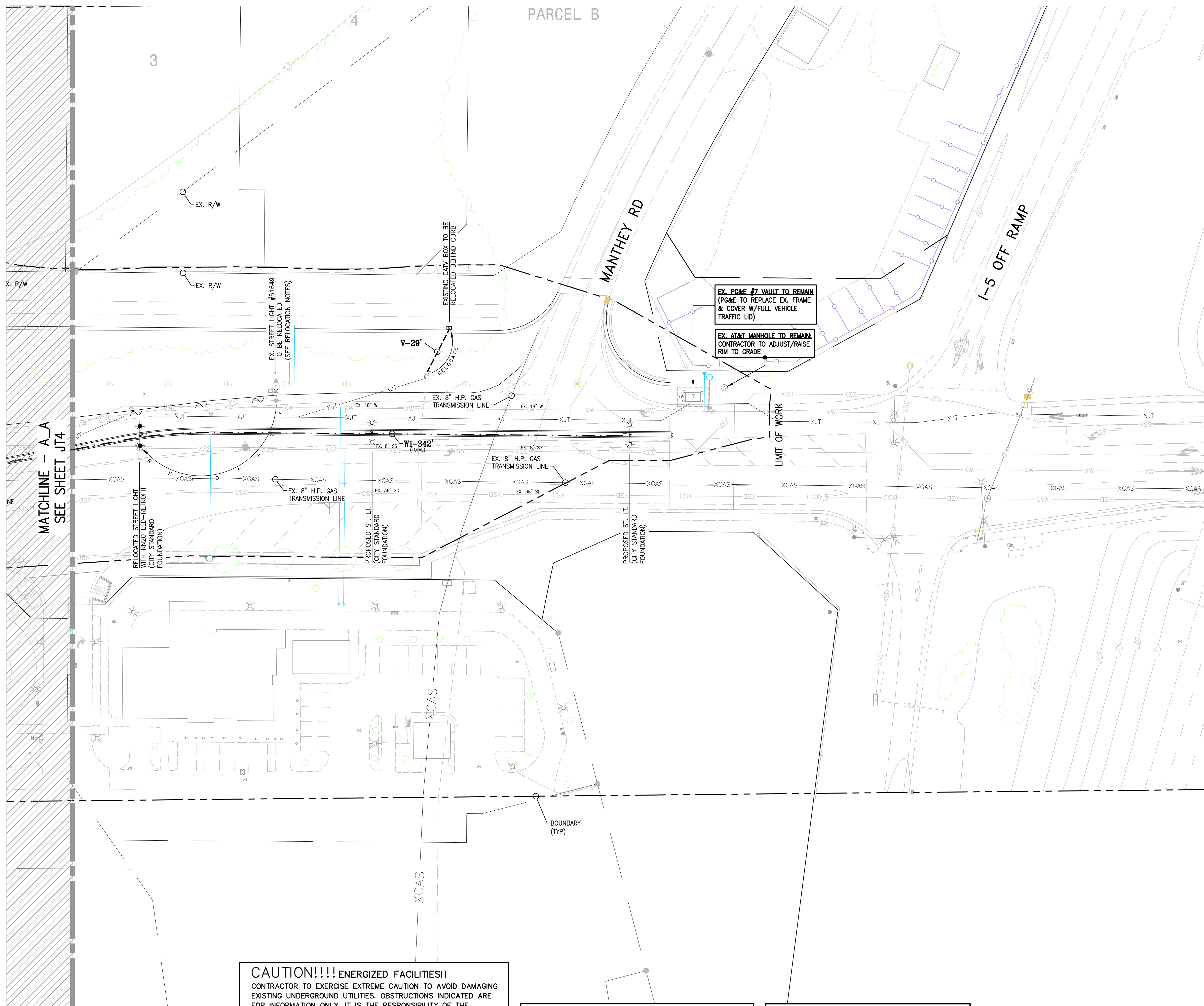
REVISIONS	DATE	DESCRIPTION

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL, RD., #545 | RIVERSIDE, CA 94088
925-467-1740 | WWW.GIACALONEDSIGN.COM

JOINT TRENCH GENERAL NOTES & DETAILS
PROJECT MANAGER:
SHAD JACOBE
DRAWN BY:
D.YOUNG
CHECKED BY:
LARRY CASKEY
SCALE:
N.T.S.
JOB NUMBER:
20-092
DATE LAST MODIFIED:
08-06-20
SHEET
JT2
OF 5 SHEETS

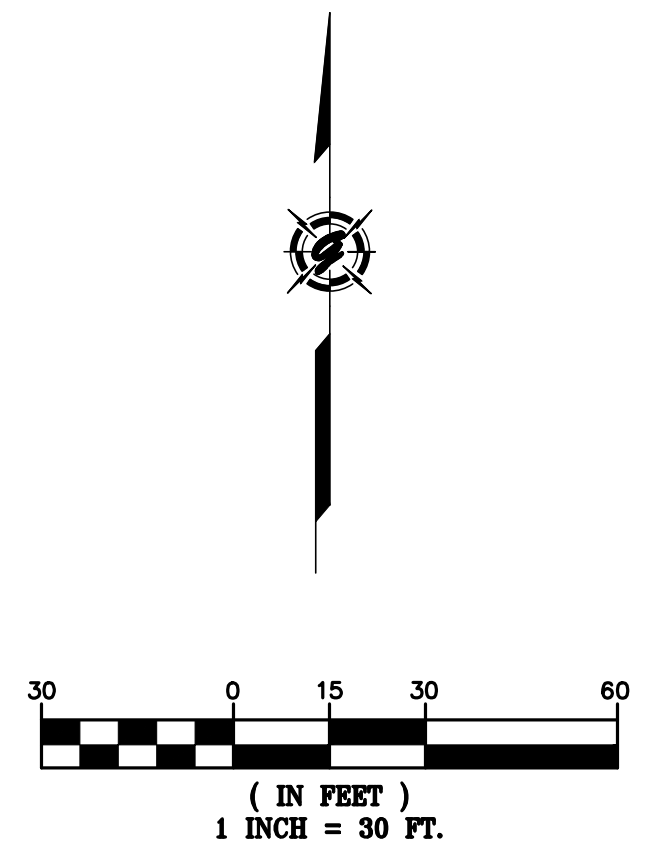
DEVELOPER
PLEASE NOTE AND SIGN
ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPERS ENGINEER. ALL COSTS TO RELOCATE OR RE-ADJUST BOXES AT A LATER DATE WILL BE BILLED TO THE DEVELOPER. PLEASE HAVE YOUR SUPERINTENDENT VERIFY THE CORRECT GRADE OF ALL ENCLOSURES AND BOXES AND SIGN AND DATE DRAWING.
THANK YOU
SIGNED: _____
DATE: _____





LEGEND

	EXISTING TRENCH OR UTILITIES
	PROPOSED TRENCH (DISTRIBUTION)
	PROPOSED TRENCH (SERVICE)
	PROPOSED STREET LIGHT TRENCH
	4'6"x8'6"x6' PG&E SPLICE BOX
	17'x30'x18" CATV SPLICE BOX
	EXISTING UTILITY SPLICE BOX
	EX. ELECTRIC SERVICE POINT (SECONDARY BOX)
	RELOCATED ST. LT. W/PROPOSED RETROFIT KIT
	PROPOSED DOUBLE ARM STREET LIGHT
	STREET LIGHT BOX (STATE TYPE 3 1/2)
	EXISTING DOUBLE ARM STREET LIGHT
	EXISTING STREET LIGHT
	PG&E SKETCH LOCATION NUMBER
(F.V.T.)	FULL VEHICULAR TRAFFIC LID
(U.O.N.)	UNLESS OTHERWISE NOTED



JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X	X	X	X	
*C	X	X	X	X	X	
*D	X	X	X	X	X	
*E	X	X	X	X	X	
*F	X	X	X	X	X	
*G	X	X	X	X	X	
*H	X	X	X	X	X	
I	X	X	X	X	X	
J	X	X	X	X	X	
K	X	X	X	X	X	
L	X	X	X	X	X	
M	X	X	X	X	X	
N	X	X	X	X	X	
O	X	X	X	X	X	
P	X	X	X	X	X	
Q	X	X	X	X	X	
R	X	X	X	X	X	
S	X	X	X	X	X	
T	X	X	X	X	X	
U	X	X	X	X	X	
V	X	X	X	X	X	
W	X	X	X	X	X	

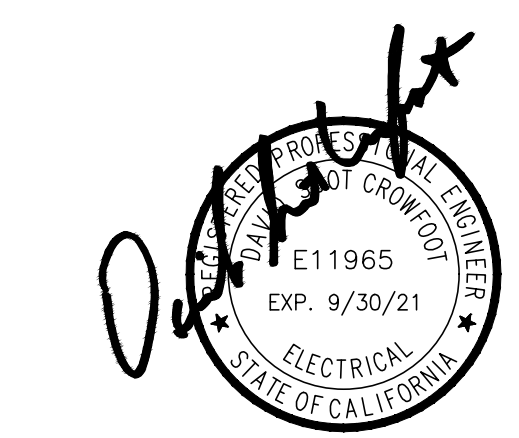
*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

CAUTION!!! ENERGIZED FACILITIES!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION TO AVOID DAMAGING EXISTING UNDERGROUND UTILITIES. OBSTRUCTIONS INDICATED ARE FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE DESIGNER ASSUME ANY RESPONSIBILITY THAT THE OBSTRUCTIONS INDICATED WILL ACTUALLY BE THE OBSTRUCTIONS ENCOUNTERED. POTHOLES IS REQUIRED. HAND EXCAVATE ONLY IN PRESENCE OF UTILITY INSPECTOR.

NOTE:
 LOCATION AND/OR ELEVATIONS OF ALL EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR TO POTHOLE AND VERIFY LOCATIONS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL CONTACT GIACALONE DESIGN IF THERE ARE CONFLICTS WITH THE DESIGN.

NOTE:
 LOCATION OF EXISTING JOINT TRENCH FACILITIES SHOWN IS BASED ON INFORMATION PROVIDED BY OTHERS. JOINT TRENCH CONTRACTOR TO FIELD VERIFY ACTUAL LOCATIONS & ADJUST TRENCH AS NECESSARY AND MAINTAIN PROPER CLEARANCES.

R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
 CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.



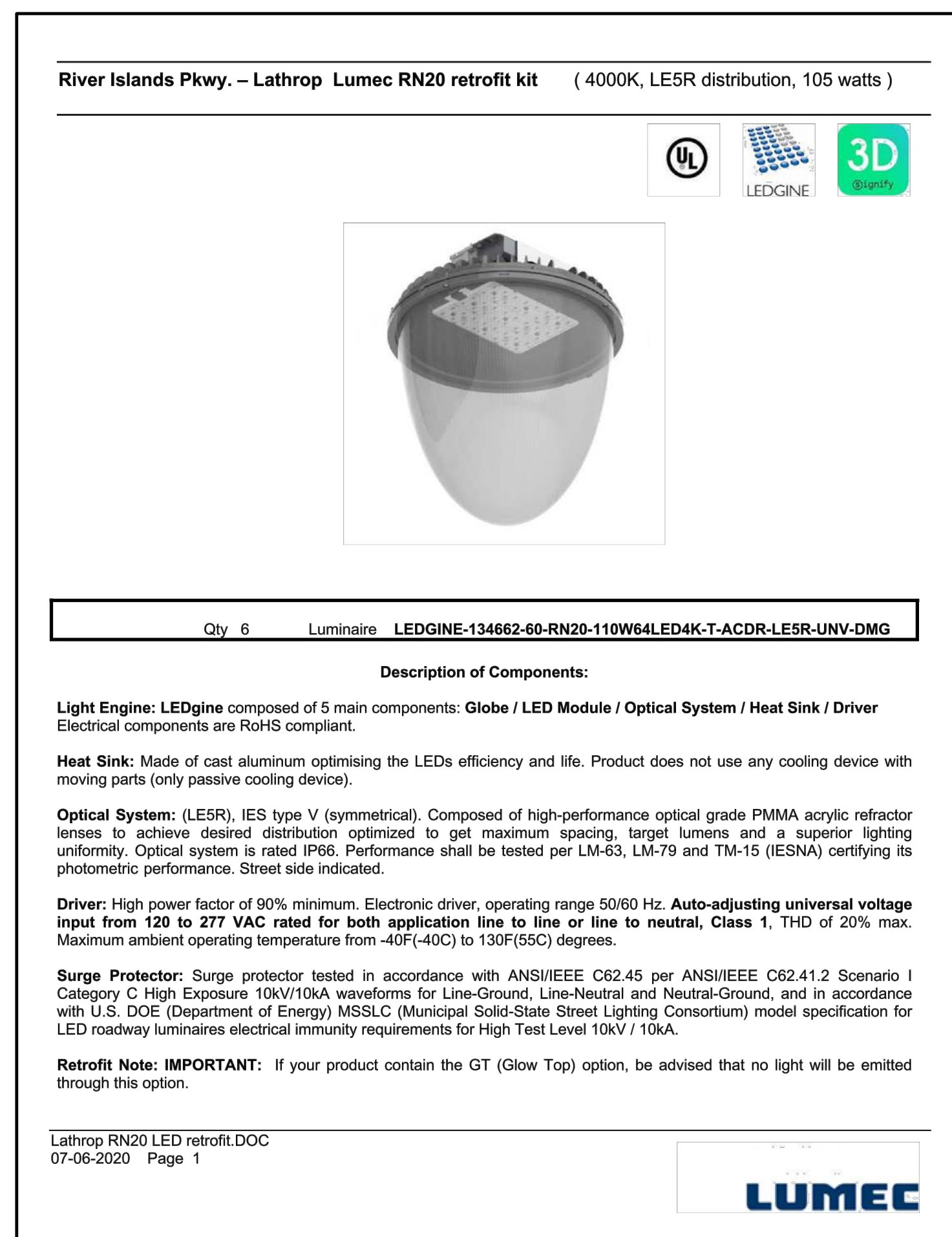
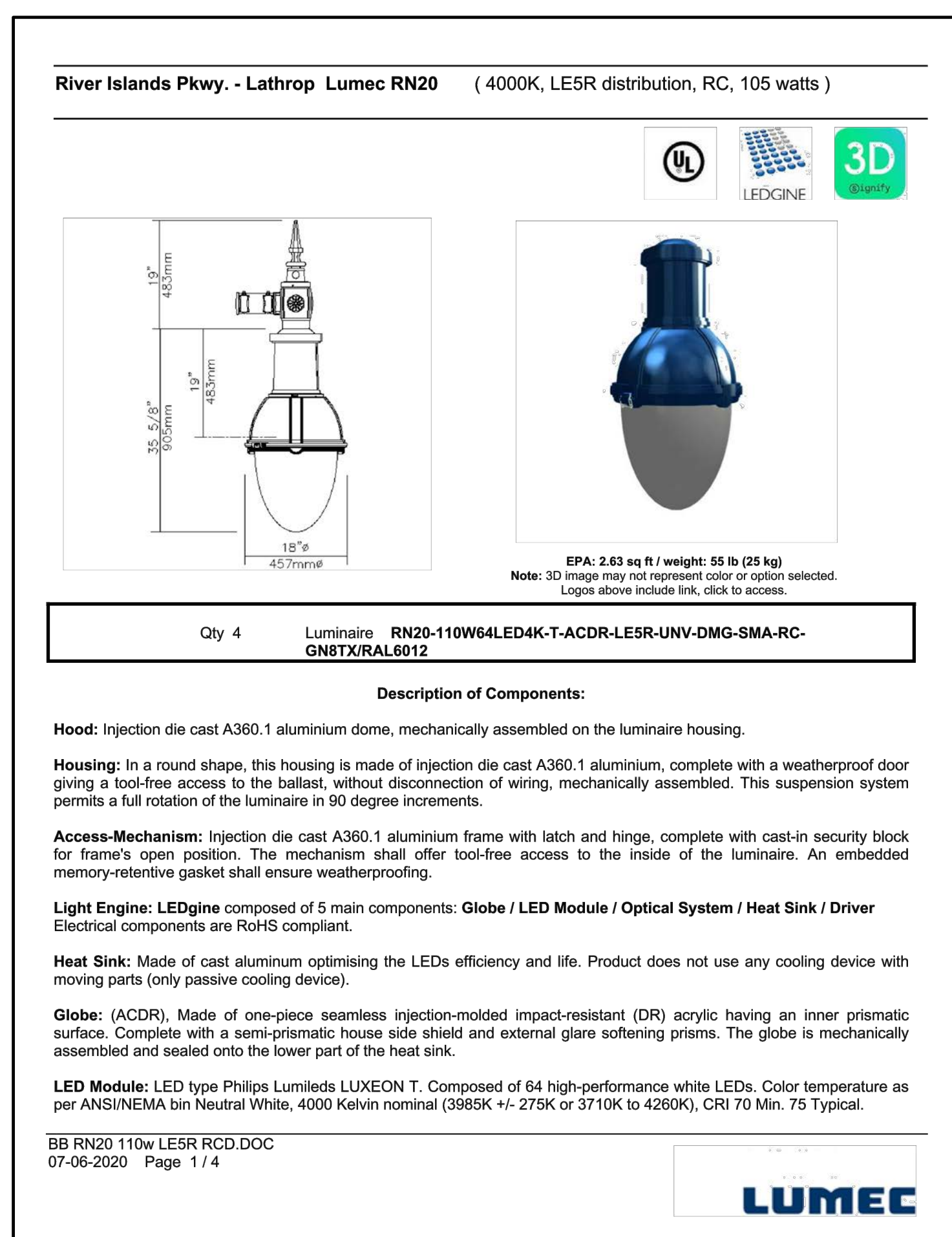
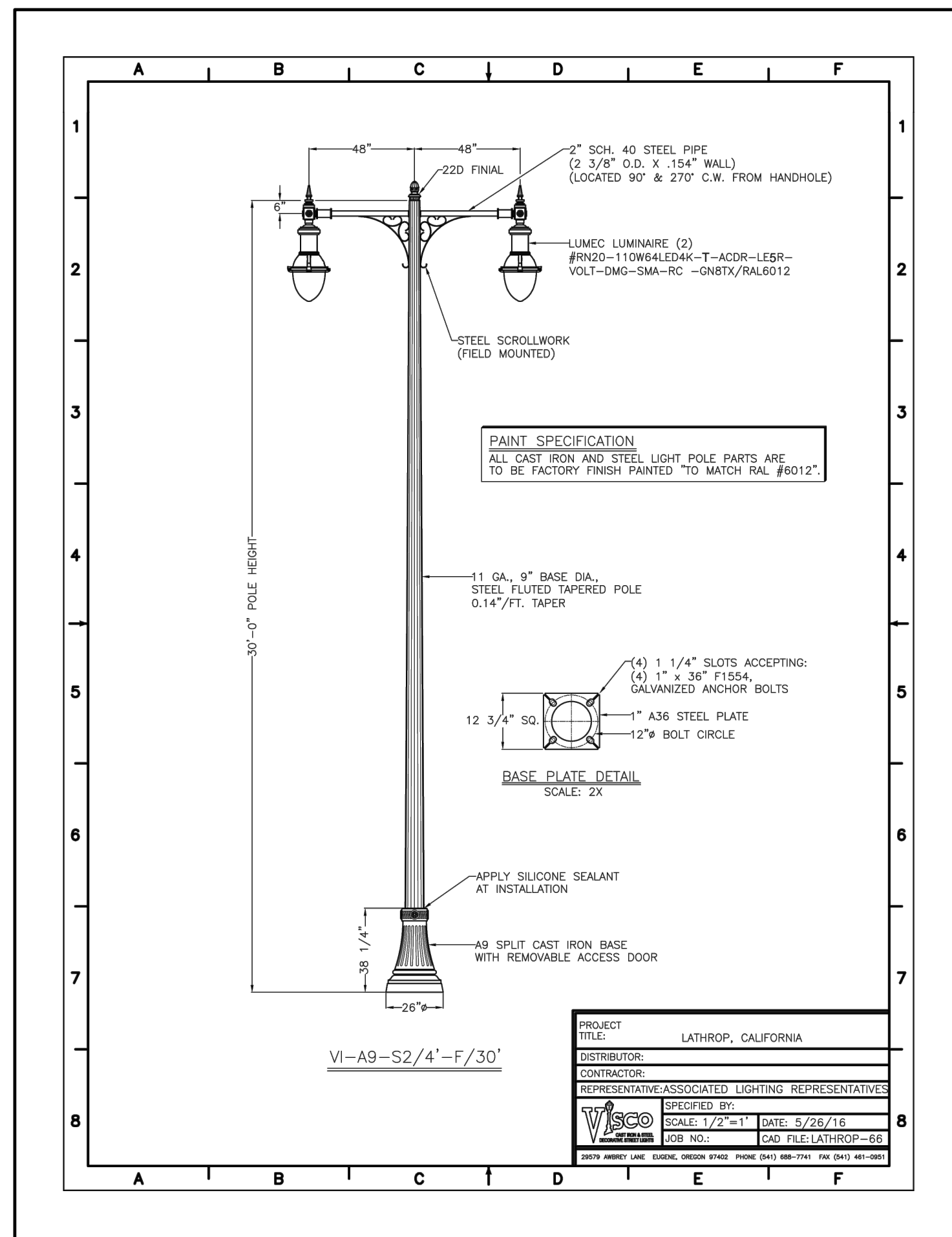
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
 DESIGN SERVICES, INC.
 5200 STONERIDGE MALL, RD., #545 | PLEASANTON, CA 94688
 925-774-1740 | WWW.GIACALONEDSIGN.COM

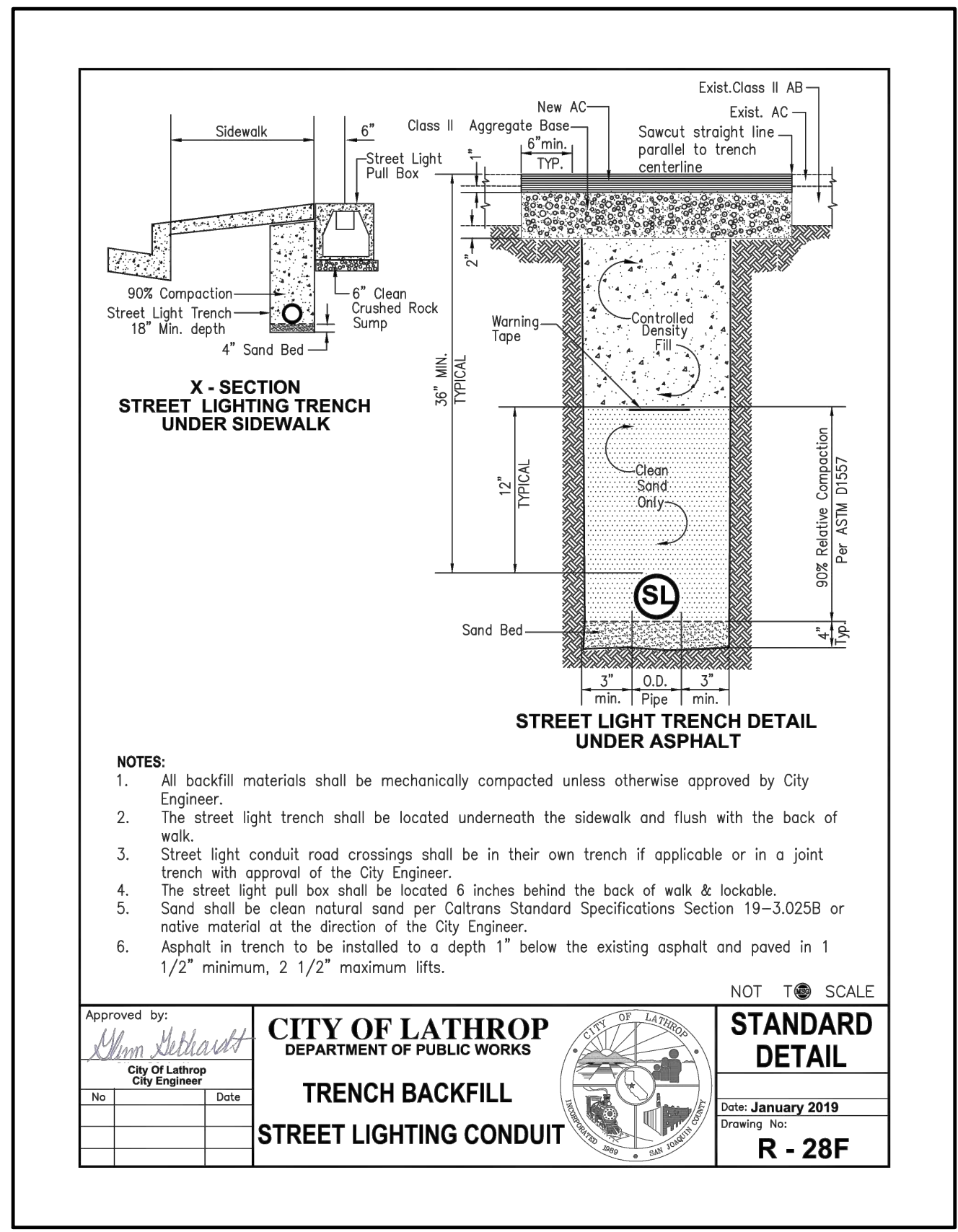
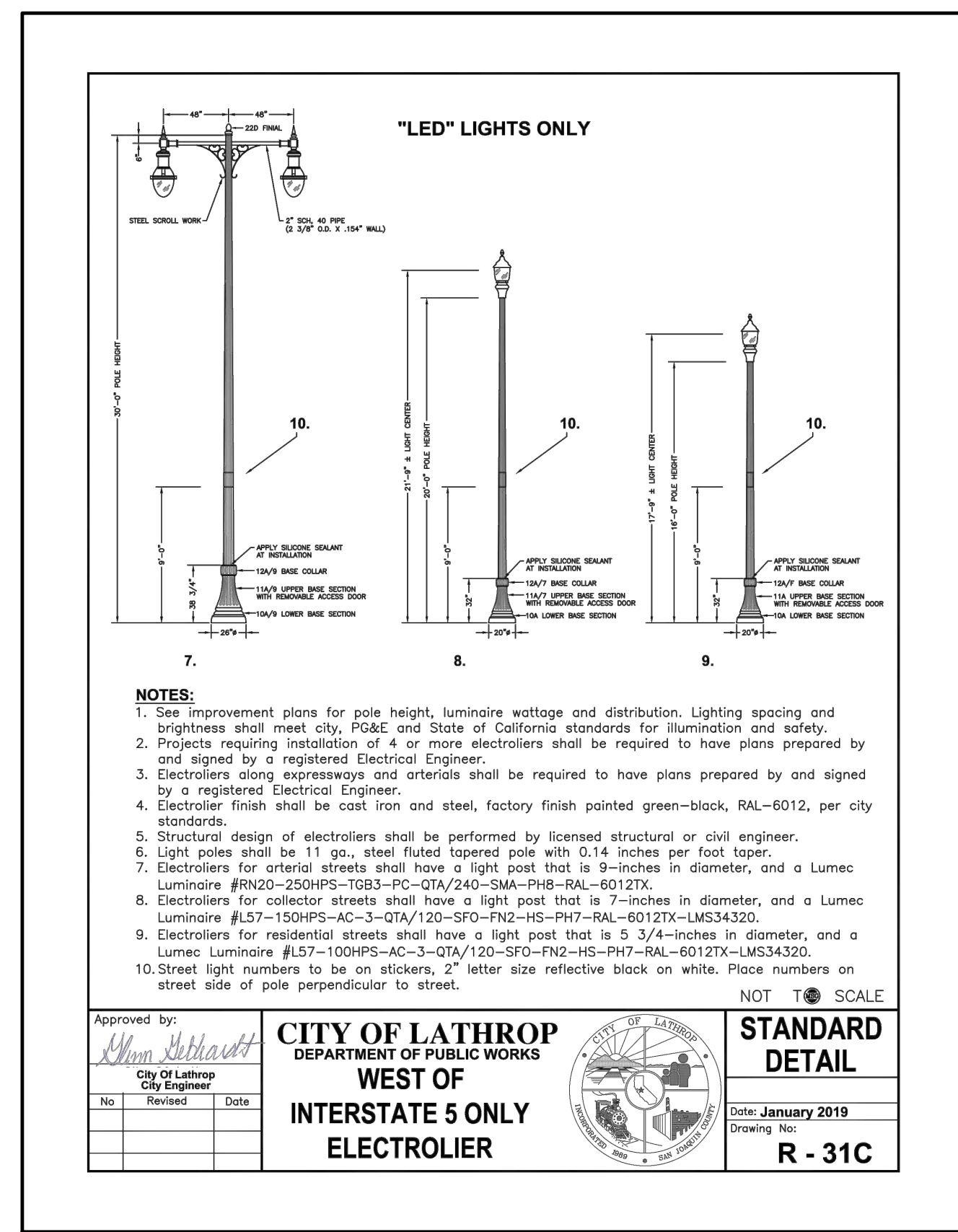
JOINT TRENCH COMPOSITE PLAN
 CITY OF LATHROP
 RIVER ISLANDS PARKWAY
 MANTHEY RD TO GOLDEN VALLEY PARKWAY
 CALIFORNIA
 LATHROP

PROJECT MANAGER:
SHAD JACOBE
 DRAWN BY:
DY/RC
 CHECKED BY:
LARRY CASKEY
 SCALE:
1"=30'
 JOB NUMBER:
20-092
 DATE LAST MODIFIED:
08-06-20
 SHEET
JT5
 OF 5 SHEETS

RIVER ISLANDS PARKWAY - STREET LIGHTING

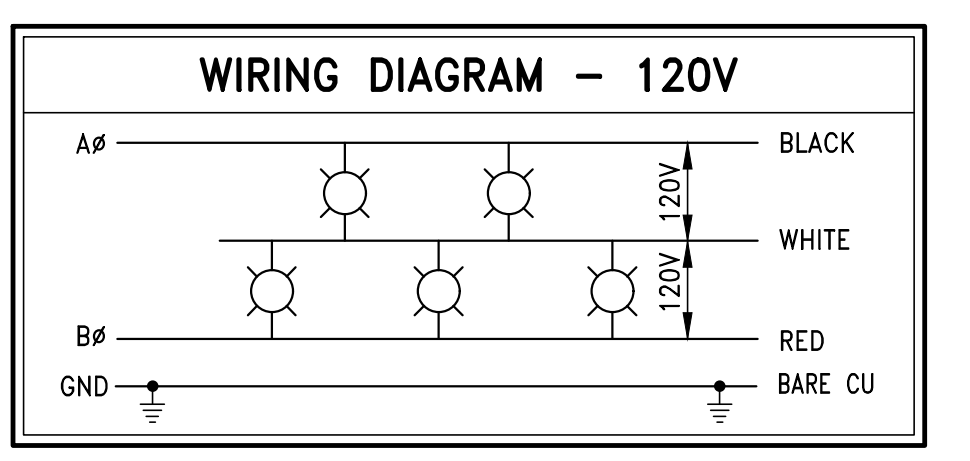


- ### CONTRACTORS NOTES
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A., N.E.M.A.,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



CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: _____ DATE: _____
CITY ENGINEER RCE NO: _____
EXP DATE: _____



LUMINAIRE SCHEDULE								
TYPE	LUMINAIRE	DIST.	MTG. HT.	ARM	POLE HT.	COLOR	MATERIAL	QUANTITY
DUAL ARM STREET LIGHT	105W, 64LED, 120V	LE5R	28'-6"±	4'	30'-0"	RAL6012	GALV. STEEL	4
DUAL ARM STREET LIGHT	105W, 64LED, 120V	LE5R	EXISTING STREET LIGHT TO BE RETROFIT WITH NEW FIXTURE					6

PUBLIC/Private Lighting: PUBLIC

PG&E RATE SCHEDULE: LS-2A

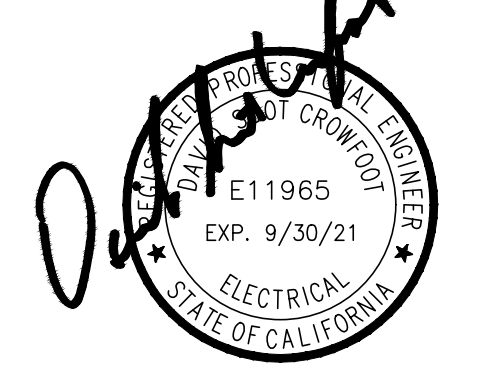
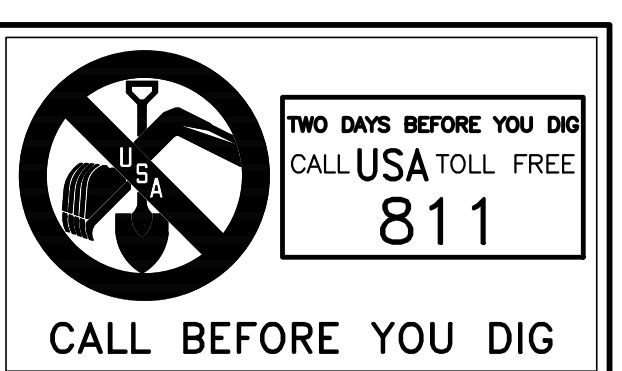
INSTALL IN JOINT TRENCH:

INSTALL IN SEPARATE TRENCH:

CITY PERMIT REQUIRED:

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

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

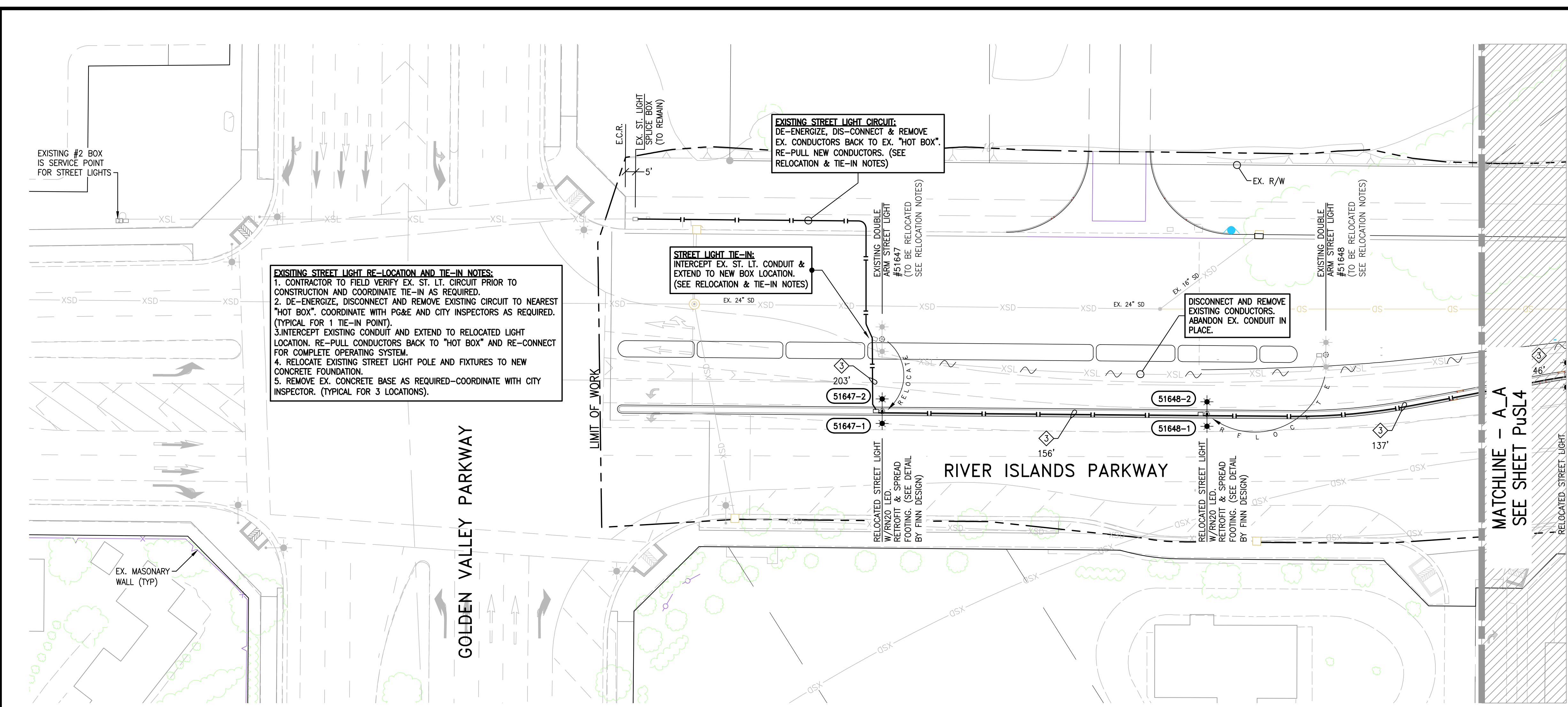


APPROVED	REVISIONS	DATE	SYMBOL	DESCRIPTION

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL, RD., #545 | RILEY, CALIF. 94388
925-467-1740 | WWW.GIACALONEDSG.COM

STREET LIGHTING TITLE SHEET
CITY OF LATHROP
RIVER ISLANDS PARKWAY
MATHENY RD TO GOLDEN VALLEY PARKWAY
LATHROP CALIFORNIA

PROJECT MANAGER:
SHAD JACOBE
DRAWN BY:
DY/RC
CHECKED BY:
LARRY CASKEY
SCALE:
AS SHOWN
JOB NUMBER:
20-092
DATE LAST MODIFIED:
08-06-20
SHEET
PuSL1
OF 3 SHEETS

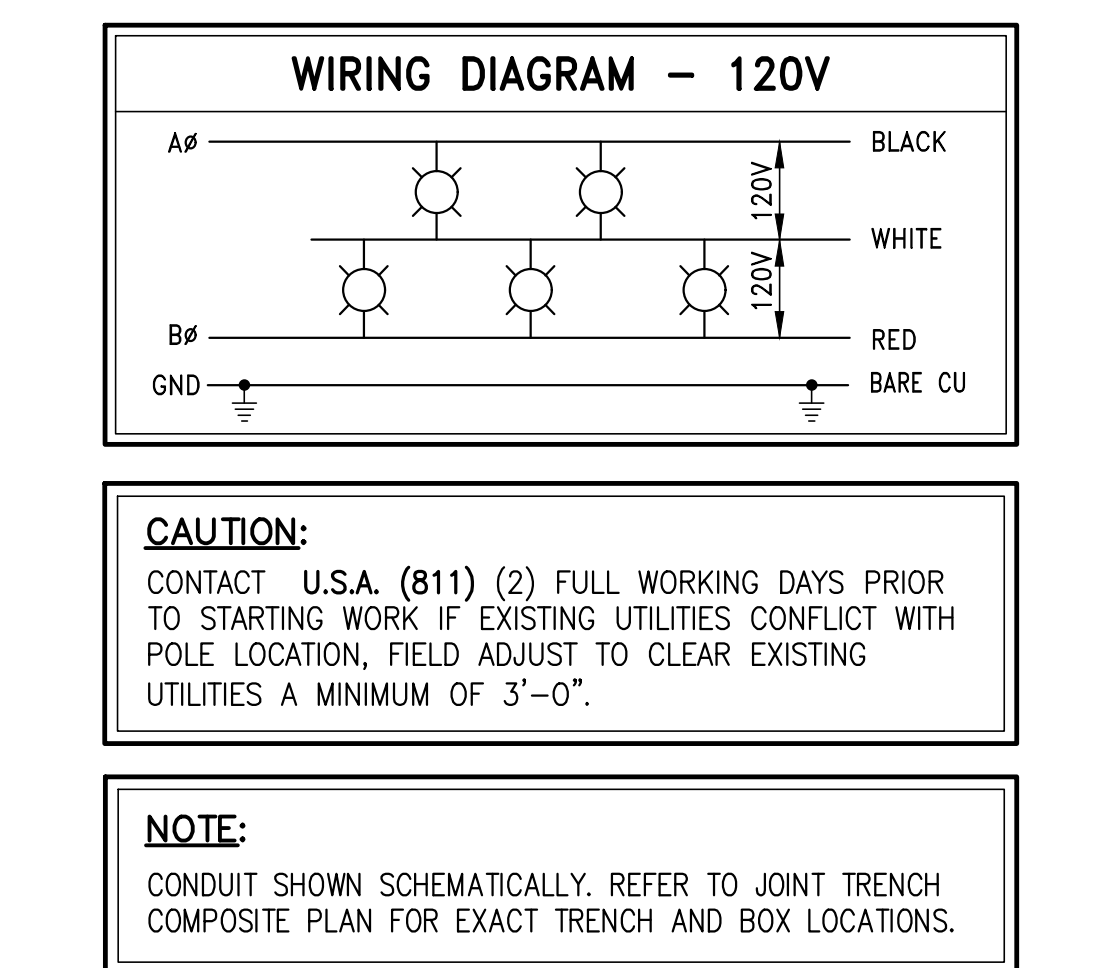


LEGEND

- EXISTING STREET LIGHT CONDUIT
- PROPOSED 2" SCH. 40 PVC CONDUIT
- EX. ELECTRIC SERVICE POINT (SECONDARY BOX)
- EXISTING STREET LIGHT SPLICE BOX
- RELOCATED ST. LT. W/PROPOSED RETROFIT KIT
- PROPOSED DOUBLE ARM STREET LIGHT
- STREET LIGHT BOX (STATE TYPE 3 1/2)
- EXISTING DOUBLE ARM STREET LIGHT
- EXISTING STREET LIGHT
- STREET LIGHT POLE NUMBER
- FIRE HYDRANT (BY OTHERS)

CONDUCTOR AND CONDUIT SCHEDULE

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



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

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

CALL BEFORE YOU DIG
CALL USA TOLL FREE
811

FDG Finn Design Group, Inc.
Structural Engineers
3825 Hopyard Road, Suite 125
Pleasanton, CA 94588
OFFICE (925) 737-1600
FAX (925) 737-1601

APPROVED BY: JAF
DATE: 6/26/2020

RIVER ISLANDS PARKWAY WIDENING STREET LIGHT AT 18" WATER PIPE

CITY OF LATHROP CALIFORNIA

1 OF 3

FDG Finn Design Group, Inc.
Structural Engineers
3825 Hopyard Road, Suite 125
Pleasanton, CA 94588
OFFICE (925) 737-1600
FAX (925) 737-1601

APPROVED BY: JAF
DATE: 6/26/2020

RIVER ISLANDS PARKWAY WIDENING STREET LIGHT AT 18" WATER PIPE

CITY OF LATHROP CALIFORNIA

2 OF 3

GENERAL

1. BASIS OF DESIGN: 2019 CALIFORNIA BUILDING CODE.
2. ALL MATERIALS, WORKMANSHIP, TESTING AND INSPECTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2019 EDITION, AND LOCAL BUILDING CODES.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON THE JOBSITE WITH A COMPLETE SET OF THE LATEST DRAWINGS. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING SAFETY OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING IN ACCORDANCE WITH ALL NATIONAL STATE AND LOCAL ORDINANCES.
5. DRAWINGS SHALL NOT BE SCALED OR MEASURED FOR DIMENSIONS.

FOUNDATION

1. FOUNDATION DESIGN IS BASED ON MINIMUM CRITERIA CONTAINED IN THE 2019 C.B.C.
2. FOOTING DESIGN CAPACITIES:
DEAD + LIVE LOAD BEARING PRESSURE: 1,500 PSF
DEAD + WIND / SEISMIC BEARING PRESSURE: 2,000 PSF
3. SUBGRADE SHALL BE EXCAVATED, SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO 95% RELATIVE COMPACTION. IF 95% RELATIVE COMPACTION CANNOT BE ATTAINED, CONTRACTOR SHALL OVER-EXCAVATE 12" BACKFILL WITH CLASS 2 AGGREGATE BASE, AND COMPACT TO 95% RELATIVE COMPACTION. CONTRACTOR SHALL COORDINATE WITH TESTING LAB TO ENSURE PROPER INSPECTIONS AND COMPACTION TESTING.

CONCRETE

1. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318-2014. USE MIXES WITH MAXIMUM AGGREGATE SIZE APPROPRIATE FOR FORM REBAR CLEARANCES TO BE ENCOUNTERED (SEE A.C.I.)
2. ALL STRUCTURAL CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH AND AN AIR CONTENT AS FOLLOWS:
LOCATION STRENGTH AIR CONTENT
FOOTING & PEDESTAL 3,500 PSI 1 TO 2%
3. STRUCTURAL CONCRETE MIXES SHALL BE TYPE II CEMENT. SUBMIT MIX DESIGN FOR APPROVAL.
4. AT CONTRACTOR'S OPTION APPROXIMATELY 4 OUNCES PER 100 POUNDS OF CEMENT OF POZZOLITH 300-R BY MASTER BUILDERS OR APPROVED EQUAL SHALL BE USED AS A WATER DISPERSING AGENT. AT CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATIONS C 260 MAY BE ADDED TO THE CONCRETE TO PROVIDE SPECIFIED AMOUNTS OF ENTRAINED AIR.
5. ALL CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR AT LEAST 7 DAYS AFTER PLACEMENT. CEMENT SHALL CONFORM TO ASTM C150. CONCRETE SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT.
6. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 DEFORMED BARS, U.N.O. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706.
2. ALL REINFORCING STEEL AND EMBEDMENTS TO BE HELD SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO ALLOW WALKING ON REINFORCEMENT.

STRUCTURAL STEEL

1. MATERIAL SPECIFICATIONS:
ALL MISCELLANEOUS STEEL: ASTM A36, Fy = 36 KSI U.N.O., HOT-DIP GALVANIZED
ANCHOR BOLTS: ASTM F1554, GRADE 36, HOT-DIP GALVANIZED

STRUCTURAL DESIGN PARAMETERS

DESIGN WIND LOADS - MAIN WIND FORCE RESISTING SYSTEM (MWFERS):
DESIGN WIND SPEED: 110 MPH
EXPOSURE CATEGORY: C

DESIGN EARTHQUAKE LOADS:
SITE CLASS: D
SEISMIC IMPORTANCE FACTOR: 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
S₁: 0.851g
S₂: 0.316g
SPECTRAL RESPONSE COEFFICIENTS:
S₁: 0.881g
S₂: 0.418g

SEISMIC DESIGN CATEGORY: SDC
BASIC SEISMIC FORCE RESISTING SYSTEM: NON-STRUCTURAL LIGHTING FIXTURE
R_e = 1.5, φ_e = 1.0

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APPROVED BY: JAF
DATE: 6/26/2020

RIVER ISLANDS PARKWAY WIDENING STREET LIGHT AT 18" WATER PIPE

CITY OF LATHROP CALIFORNIA

3 OF 3

REVISIONS

SYMBOL	DATE	DESCRIPTION

GIACALONE
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PUBLIC STREET LIGHTING PLAN
CITY OF LATHROP
RIVER ISLANDS PARKWAY
MATHENY RD TO GOLDEN VALLEY PARKWAY
CALIFORNIA
LATHROP

PROJECT MANAGER: SHAD JACOB
DRAWN BY: DY/RC
CHECKED BY: LARRY CASKEY
SCALE: 1"=30'
JOB NUMBER: 20-092
DATE LAST MODIFIED: 08-06-20
SHEET
PuSL2
OF 3 SHEETS

