
File ID: 2026-01704

11/10/2026

[Contract Awards and Supplements] Plans and Specifications Approval, Budgetary Adjustments, Contract Supplement and Contract Award for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) [Published for 10-day Review 10/29/2026]

File ID: 2026-01704

Location: The intersection of Lampasas Avenue and Rio Linda Boulevard, District 2

Recommendation: Adopt a **Resolution:** 1) approving the Plans and Specifications for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500); 2) authorizing the City Manager or designee to increase the revenue and expenditure budgets of the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) by \$2,076,220 (Other Capital Grants, Fund 3703); 3) authorizing the City Manager or designee to increase the expenditure budget of the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) by \$667,000 (Major Street Construction Fund, Fund 2007); 4) awarding the construction contract for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) to Ghilotti Bros, Inc. for an amount not to exceed \$1,698,799; 5) authorizing the City Manager or designee to execute the construction contract for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) with Ghilotti Bros, Inc. for an amount not to exceed \$1,698,799; 6) authorizing the City Manager or designee to execute Supplemental Agreement No. 6 to City Agreement No. 2021-1207 with Kimley-Horn and Associates, Inc. for an amount not-to-exceed \$60,359, for a new contract not-to-exceed amount of \$258,701; 7) resetting the City Manager administrative authority to issue supplemental agreements with Kimley-Horn and Associates, Inc. for City Agreement No. 2021-1207; 8) awarding a Professional Services Agreement for an amount not-to-exceed \$342,066 with Salaber Associates, Inc. for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500); 9) authorizing the City Manager or designee to execute a Professional Services Agreement for an amount not-to-exceed \$342,066 with Salaber Associates, Inc. for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500); 10) awarding a Professional Services Agreement for an amount not-to-exceed \$330,243 with Salaber Associates, Inc. for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300); and 11) authorizing the City Manager or designee to execute a Professional Services Agreement for an amount not-to-exceed \$330,243 with Salaber Associates, Inc. for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300).

Contact: James Kragh, Associate Engineer (916) 808-6842, jmkragh@cityofsacramento.org; William Shunk, Senior Engineer (916) 808-2986, wshunk@cityofsacramento.org; Ofelia Avalos, Engineering Manager (916) 808-5054, oavalos@cityofsacramento.org; Department of Public Works

Presenter: None

Attachments:

1-Description/Analysis

2-Resolution

3-Project Plans for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500)

4-Construction Contract for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500)

5-Supplemental Agreement for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500)

6-Construction Management Contract for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500)

7-Construction Management Contract for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300)

Additional Description/Analysis

Issue Detail: The Highway Safety Improvement Program (HSIP)-9 Lampasas Avenue and Rio Linda Boulevard Intersection Safety Project is an operational improvement that will enhance safety at the Lampasas Avenue and Rio Linda Boulevard intersection.

This project includes the installation of pedestrian crossings on both approaches of Lampasas Avenue and on the north approach of Rio Linda Boulevard at the intersection. Pedestrian refuge islands will be constructed on the north approach to reduce pedestrian exposure while crossing. The intersection will also be restriped and realigned to reduce excess pavement and improve the clarity and efficiency of vehicle turning movements.

In addition, the eastbound approach of Lampasas Avenue will be modified to function as an exit-only movement from the intersection, reducing vehicle conflict points and improving overall intersection safety.

The project was selected for funding in Cycle 9 of the Highway Safety Improvement Program (HSIP) based on the frequency of crashes resulting in injuries and fatalities at the intersection. Additional funding for the project was secured in the Sacramento Area Council of Governments (SACOG) 2020 Regional program for the for-project elements that were not eligible for HSIP reimbursement. Appropriation of HSIP and SACOG construction funding is necessary to construct the project.

The project plans and specifications have been completed and are included as Attachment 3.

The project was advertised for construction and received nine bids. Staff recommend awarding the construction contract to the lowest responsive and responsible bidder, Ghilotti Bros, Inc.

The City advertised a competitive solicitation for proposals from engineering consulting firms to provide construction management and inspection services for both the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) and for the La Mancha Way / Valley Hi Drive Corridor

Improvements Project (T15205300). Three firms submitted proposals, and a panel comprised of staff from the Department of Public Works recommended selection of the top ranked firm, Salaber Associates, Inc. Selection of an experienced and qualified construction management firm is necessary to ensure the project is appropriately staffed for construction oversight which is anticipated to start following the construction contract award.

Kimley-Horn and Associates, Inc. was awarded a professional services agreement (City Agreement No. 2021-1207) to perform final design services on October 27, 2021. Approval of the execution of Supplemental No. 6 and resetting the City Manager's authority to issues supplemental agreements to City Agreement No. 2021-1207 will allow for efficient accommodation of design support needs during construction.

Policy Considerations: The actions requested herein are consistent with the City General Plan goals and key policies that accommodate and promote safe and convenient travel for all users. The project will prioritize pedestrian mobility (M 1.2); increase bicycling and walking (M-1.11); improve walking connectivity (M-1.15); and enhance walking safety (M-1.19).

The Sacramento City Code Section 4.04.020 and the City Council Rules of Procedure (Chapter 7, Section E.2.d) mandate that unless waived by a 2/3 vote of the City Council, all labor agreements, and all agreements greater than \$1,000,000 shall be made available to the public at least ten (10) days prior to City Council action. This item was published for 10-day review on October 29, 2026, in compliance with the City Code.

Economic Impacts: This new infrastructure is expected to create 6.8 total jobs (3.91 direct jobs and 2.89 jobs through indirect and induced activities) and create \$1,048,897.65 in total economic output (\$661,128.21 of direct output and another \$387,769.44 of output through indirect and induced activities). The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical \$1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations:

California Environmental Quality Act (CEQA): The City of Sacramento Environmental Planning Services has reviewed this project and determined that it is exempt from the provisions of CEQA under Section 15301(c).

National Environmental Policy Act (NEPA): The project has been determined to be categorically excluded from National Environmental Policy Act (NEPA) review under Sections 23 USC 326 and 23 CFR 771 (c).

Sustainability: The project is consistent with the City's General Plan goals to help improve the health of residents by promoting walking and bicycling, and to create a healthier urban environment by eliminating pedestrian barriers with the construction of safe pedestrian crossings. The project will reduce dependence on the private automobile, decrease the use of fossil fuels, and encourage active modes of transportation.

Commission/Committee Action: The project was presented as an informational item at the August 2024 meeting of the Sacramento Disabilities Advisory Commission and the November 2024 meeting of the Sacramento Active Transportation Commission.

Rationale for Recommendation:

The City Council action is required to perform the budgetary adjustments necessary to award and complete construction of the Lampasas Avenue & Rio Linda Boulevard Project (T15205500), which includes appropriation of \$2,076,220 in HSIP construction funding.

The project was advertised for construction with an engineer's estimate of \$2,325,210. A total of nine bids were received on August 5, 2026, as summarized below:

Contractor	Bid
Ghilotti Bros, Inc.	\$1,698,798.50
Ghilotti Construction Company, Inc.	\$1,737,018.50
FBD Vanguard Construction	\$1,824,455.00
Dutch Contracting, Inc	\$1,839,991.84
Granite Rock Company	\$1,852,004.90
Martin Brothers Construction	\$1,987,853.00
McGuire and Hester	\$2,052,960.00
Martin General Engineering	\$2,061,424.25
Lund Construction	\$2,102,237.60

All bidders met the required bid conditions. Staff recommend that the construction contract be awarded to the lowest responsive and responsible bidder, Ghilotti Bros, Inc. Construction is anticipated to begin November 2026 and be completed by June 2027.

A request for proposals (RFP) was advertised on May 2, 2025, for professional services to provide construction management, inspection, materials testing, and construction staking for two similar projects: the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) and the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300). The City received proposals from three teams: 3D Built, UNICO Engineering, Inc., and Salaber Associates, Inc. Based upon the merits of the written proposals and interviews of the consultant teams, a panel representing staff from the Departments of Public Works reviewed and recommended Salaber Associates, Inc. as the top-

ranked consultant team. Approval by the City Council is needed to award the Professional Services Agreement with Salaber Associates, Inc.

Approval by the City Council is needed to execute Supplemental Agreement No. 6 and reset the administrative authority for contract amendments to City Agreement No. 2021-1207 with Kimley-Horn and Associates, Inc. to allow design support services to be provided during construction.

Financial Considerations: The estimated total cost to complete construction and construction management activities for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) is approximately \$2,140,000. By approving the budgetary adjustments for \$2,076,220 (Other Capital Grants, Fund 3703) and \$667,000 (Major Street Construction Fund, Fund 2007) to the revenue and expenditure budgets of the Lampasas Avenue & Rio Linda Boulevard Project (T15205500), there will be sufficient funding to award the construction contract to Ghilotti Bros, Inc. for an amount not-to-exceed \$1,698,798.50, execute Supplemental Agreement No. 6 to City Agreement No. 2021-1207 with Kimley-Horn and Associates, Inc. for an amount not-to-exceed \$60,358.91, and award a professional services agreement for construction management services to Salaber Associates, Inc. for an amount not-to-exceed \$342,065.32 to complete the project.

The estimated total cost to complete construction and construction management activities for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300) is approximately \$1,890,400. City Council voted to adopt a resolution that will increase the expenditure budget for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300) by \$2,981,000 on September 29, 2026. With that budgetary adjustment, there is insufficient funding to award the professional services agreement for construction management services to Salaber Associates, Inc. for an amount not-to-exceed \$330,242.15 to complete the project.

No General Funds are planned or allocated to either project.

Local Business Enterprise (LBE): The City's LBE requirement for this project is not applicable due to federal funding requirements.

RESOLUTION NO. 2026-

Adopted by the Sacramento City Council

APPROVE PLANS AND SPECIFICATIONS, BUDGETARY ADJUSTMENTS, AND AWARD CONTRACT FOR THE LAMPASAS AVENUE & RIO LINDA BOULEVARD PROJECT (T15205500)

Background:

- A. The Lampasas Avenue & Rio Linda Boulevard Project (T15205500) includes installing pedestrian crossings across both Lampasas Avenue legs, and the northern Rio Linda Boulevard leg of the intersection. Pedestrian refuge islands will be added to the northern leg of the intersection to help reduce pedestrian exposure, and the intersection will be restriped and realigned to reduce excess pavement and make turning movements more intuitive. The project will also transition the eastbound Lampasas Avenue approach to receive only vehicle traffic exiting from the intersection to reduce conflict points.
- B. The project was selected for funding in Cycle 9 of the Highway Safety Improvement Program (HSIP) based on the frequency of crashes resulting in injuries and fatalities at the intersection. Additional funding for the project was secured in the Sacramento Area Council of Governments (SACOG) Regional program for the project elements that were not eligible for HSIP reimbursement.
- C. The project plans and specifications have been completed.
- D. The project was advertised for construction with an engineer's estimate of \$2,325,210. A total of nine bids were received on August 5, 2026, as summarized below:

Contractor	Bid
Ghilotti Bros, Inc.	\$1,698,798.50
Ghilotti Construction Company, Inc.	\$1,737,018.50
FBD Vanguard Construction	\$1,824,455.00
Dutch Contracting, Inc	\$1,839,991.84
Granite Rock Company	\$1,852,004.90
Martin Brothers Construction	\$1,987,853.00
McGuire and Hester	\$2,052,960.00
Martin General Engineering	\$2,061,424.25
Lund Construction	\$2,102,237.60

- E. Staff recommend the construction contract be awarded to the lowest responsive and responsible bidder, Ghilotti Bros, Inc.

- F. The City advertised a competitive solicitation for proposals from engineering consulting firms to provide construction management and inspection services for two projects: the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) and for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300). Three firms submitted proposals, and a panel comprised of staff from the Department of Public Works recommended selection of the top ranked firm, Salaber Associates, Inc. Selection of an experienced and qualified construction management firm is necessary to ensure the project is appropriately staffed for construction oversight which is anticipated to start following the construction contract award.
- G. Kimley-Horn and Associates, Inc. was awarded a professional services agreement (City Agreement No. 2021-1207) to perform final design services on October 27, 2021. Approval of the execution of Supplemental Agreement No. 6 and resetting the City Manager's authority to issue supplemental agreements to City Agreement No. 2021-1207 will allow for efficient accommodation of design support during construction.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

- Section 1. Plans and Specifications for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) are approved.
- Section 2. The City Manager or designee is authorized to increase the revenue and expenditure budgets of the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) by \$2,076,220 (Other Capital Grants, Fund 3703).
- Section 3. The City Manager or designee is authorized to increase the expenditure budget of the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) by \$667,000 (Major Street Construction Fund, Fund 2007).
- Section 4. The construction contract for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) is awarded to Ghilotti Bros, Inc. for an amount not-to-exceed \$1,698,799.
- Section 5. The City Manager or designee is authorized to execute the construction contract for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500) with Ghilotti Bros, Inc. for an amount not-to-exceed \$1,698,799.
- Section 6. The City Manager or designee is authorized to execute Supplemental Agreement No. 6 to City Agreement No. 2021-1207 with Kimley-Horn and Associates, Inc. for an amount not-to-exceed \$60,359, for a new contract not-to-exceed amount of \$258,701.

- Section 7. The City Manager or designee's administrative authority to issue supplemental

agreements with Kimley-Horn and Associates, Inc. for City Agreement No. 2021-1207 is reset.

- Section 8. The City Manager or designee is authorized to award a Professional Services Agreement for an amount not-to-exceed \$342,066 with Salaber Associates, Inc. for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500).
- Section 9. The City Manager or designee is authorized to execute a Professional Services Agreement for an amount not-to-exceed \$342,066 with Salaber Associates, Inc. for the Lampasas Avenue & Rio Linda Boulevard Project (T15205500).
- Section 10. The City Manager or designee is authorized to award a Professional Services Agreement for an amount not-to-exceed \$330,243 with Salaber Associates, Inc. for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300).
- Section 11. The City Manager, or designee is authorized to execute a Professional Services Agreement for an amount not-to-exceed \$330,243 with Salaber Associates, Inc. for the La Mancha Way / Valley Hi Drive Corridor Improvements Project (T15205300).

CAD FILE: K:\SAC_DRAW\097186043 - HSIP - Lampasas - DC\08 CAD\DrawSheet\HORIZONTAL CONTROL.dwg 2/16/2026 11:36 AM PLOT STAMP:

DATUM

VERTICAL DATUM: CITY OF SACRAMENTO NAVD 88

BENCHMARK: BM 277-H6C, HILTI NAIL

LOCATED IN TRAFFIC LIGHT BASE NORTHWEST CORNER OF EL CAMINO AND DEL PASO BLVD.

ELEVATION = 37.865'

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS PROJECT IS THE 1997.30 EPOCH COSS GPS GEODETIC CONTROL NETWORK FOR THE CITY OF SACRAMENTO BASED ON MEASUREMENT TO CITY CONTROL POINTS C3806 AND C3607. ALL DISTANCES SHOWN ARE GROUND. MULTIPLY THE DISTANCES AND COORDINATES SHOWN HEREON BY .999947890 FROM CONTROL POINT #100 TO OBTAIN THE 1997.30 EPOCH GRID COORDINATE DATUM OF NGS.

ALIGNMENT LINE TABLE		
LINE	LENGTH	BEARING
L1	300.00	N89°50'23.60"E
L2	200.00	N45°09'37.71"E
L3	622.51	N44°57'05.44"W
L4	833.84	N0°16'49.45"W

ALIGNMENT CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA
C1	100.00'	77.97'	N22°36'57"W	76.01'	44°40'16"

ALIGNMENT TABLE	
"L1"	LAMPASAS AVE
"R1"	LAMPASAS AVE/RIO LINDA BLVD
"R2"	RIO LINDA BLVD

CONTROL POINTS						
POINT	ALIGNMENT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING
A	"R1" LINE	16+30.97	47.10'RT	MAG NAIL	1986189.76	6719968.44
B	"L1" LINE	82+55.48	30.81'LT	MAG NAIL	1986212.95	6719864.51
C	"R1" LINE	18+35.80	31.01'LT	MAG NAIL	1986358.54	6719877.28
D	"R1" LINE	22+77.86	54.00'LT	MAG NAIL	1986800.47	6719852.08

DEL PASO BLVD

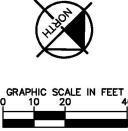
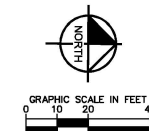
LAMPASAS AVE

RIO LINDA BLVD

LAMPASAS AVE

RIO LINDA BLVD

ELEANOR AVE



MATCHLINE SEE RIGHT
"R1" LINE - STA 16+50

MATCHLINE SEE LEFT
"R1" LINE - STA 18+50

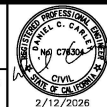
REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK	ELEV.	37.865'
HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.		

FIELD BOOK	1476
SCALE	HORIZ. 1"=20'
VERT.	

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

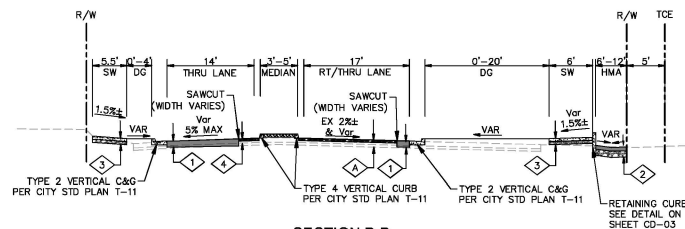
DRAWN BY: KYLE LIANG	DESIGN BY: DANIEL CARLEY	CHECKED BY: HUNTER YOUNG
DATE: 2023/2024	R.C.E. C76304 DATE: 2023	R.C.E. C78228 DATE: 5/25



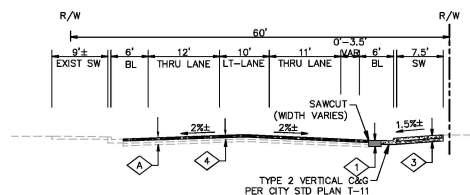
Kimley-Horn
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505 CAPITOL HILL, STE 300, SACRAMENTO, CA 95814
PHONE: 916-442-2800
WWW.KIMLEY-HORN.COM

IMPROVEMENT PLANS FOR LAMPASAS AVE AT RIO LINDA BLVD HSIP AND SAFETY IMPROVEMENTS PROJECT HORIZONTAL CONTROL

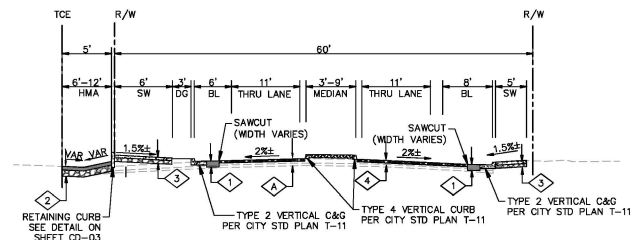
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	20



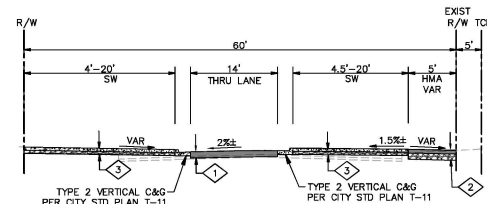
SECTION B-B
RIO LINDA BLVD SOUTHWEST LEG
NTS



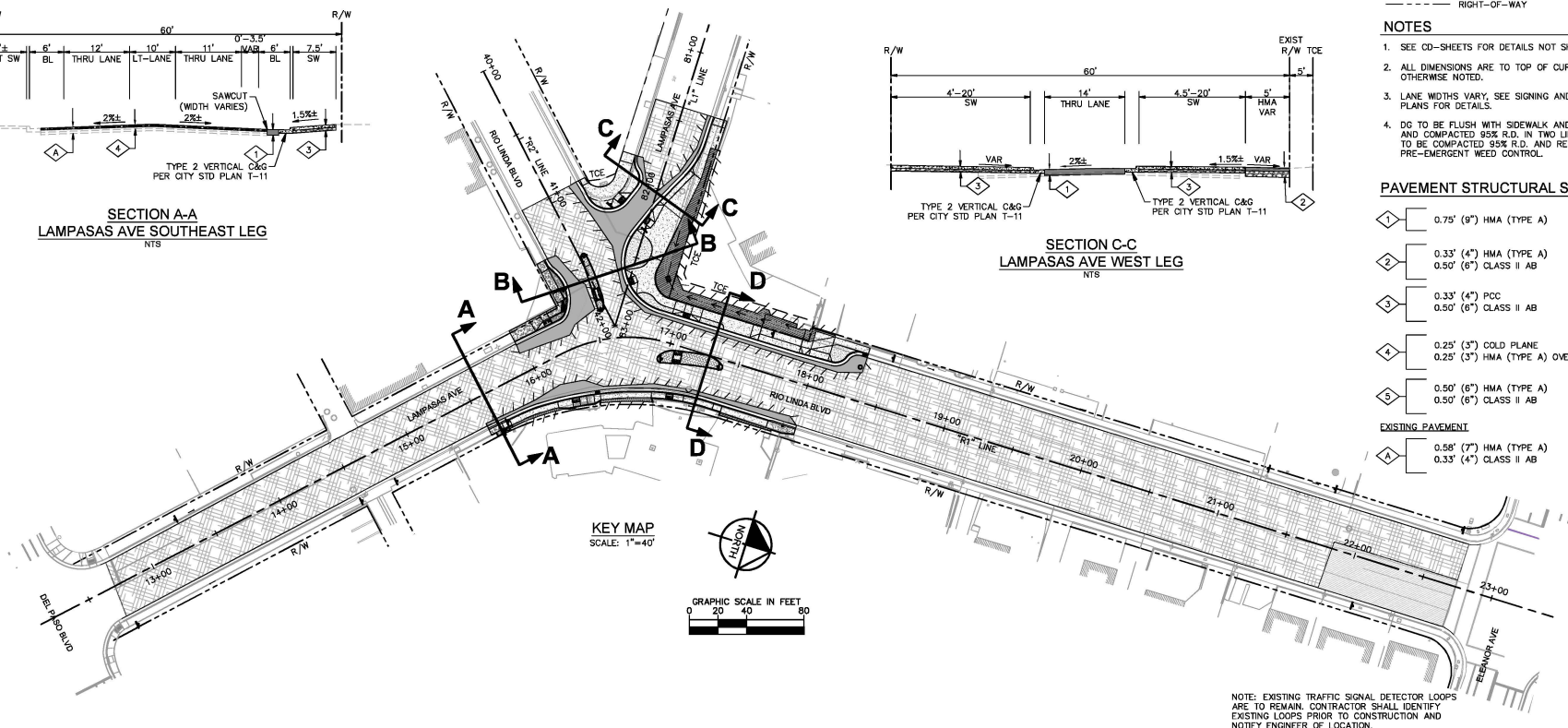
SECTION A-A
LAMPASAS AVE SOUTHEAST LEG
NTS



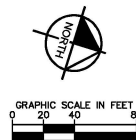
SECTION D-D
RIO LINDA BLVD NORTH LEG
NTS



SECTION C-C
LAMPASAS AVE WEST LEG
NTS



KEY MAP
SCALE: 1"=40'



LEGEND

- HMA PLUG PAVEMENT
- HMA PLUG PAVEMENT FOR PRIVATE PROPERTY
-

NOTES

- SEE CD-SHEETS FOR DETAILS NOT SHOWN HERE.
- ALL DIMENSIONS ARE TO TOP OF CURB (TC) UNLESS OTHERWISE NOTED.
- LANE WIDTHS VARY, SEE SIGNING AND STRIPING PLANS FOR DETAILS.
- DG TO BE FLUSH WITH SIDEWALK AND BACK OF CURB AND COMPACTED 95% R.D. IN TWO LIFTS. SUBGRADE TO BE COMPACTED 95% R.D. AND RECEIVE PRE-EMERGENT WEED CONTROL.

PAVEMENT STRUCTURAL SECTIONS

- 1. 0.75' (9") HMA (TYPE A)
 - 2. 0.33' (4") HMA (TYPE A)
0.50' (6") CLASS II AB
 - 3. 0.33' (4") PCC
0.50' (6") CLASS II AB
 - 4. 0.25' (3") COLD PLANE
0.25' (3") HMA (TYPE A) OVERLAY
 - 5. 0.50' (6") HMA (TYPE A)
0.50' (6") CLASS II AB (SEE SECTION E-E ON CD-04 FOR LOCATION)
- EXISTING PAVEMENT
- A. 0.58' (7") HMA (TYPE A)
0.33' (4") CLASS II AB

NOTE: EXISTING TRAFFIC SIGNAL DETECTOR LOOPS ARE TO REMAIN. CONTRACTOR SHALL IDENTIFY EXISTING LOOPS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF LOCATION.

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK

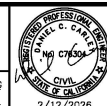
ELEV.	
37.885'	

FIELD BOOK

1476

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

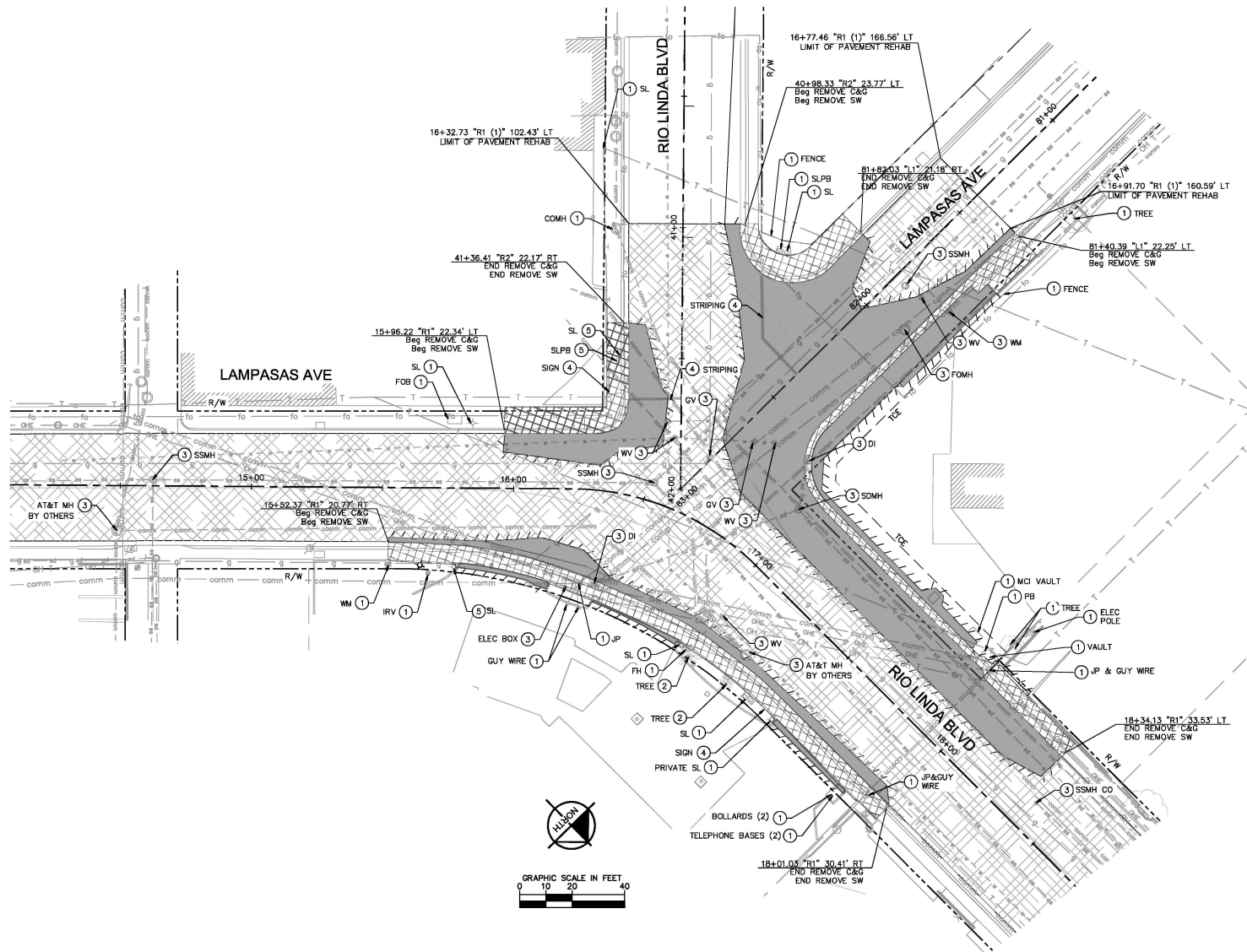
DRAWN BY: KYLE LIANG	DESIGN BY: DANIEL CARLEY	CHECKED BY: HUNTER YOUNG
DATE: 2023/2024	R.C.E. C76304 DATE: 2023	R.C.E. C76228 DATE: 5/25



Kimley-Horn
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555 CAPITOL HILL, STE 300, SACRAMENTO, CA 95814
PHONE: 916-442-2800
WWW.KIMLEY-HORN.COM

IMPROVEMENT PLANS FOR LAMPASAS AVE AT RIO LINDA BLVD HSIP AND SAFETY IMPROVEMENTS PROJECT TYPICAL SECTIONS

HSIP-5002-212	DWG. NO.
T15205500	TX-01
PN 097186043	SHEET
	3
	OF
	20



LEGEND

	REMOVE EXISTING HMA PAVEMENT
	REMOVE EXISTING CONCRETE
	3" COLD PLANE
	SAWCUT
	RIGHT-OF-WAY
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	EXISTING FIBER OPTIC LINE
	EXISTING COMMUNICATIONS LINE
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD TELEPHONE LINE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING WATER LINE
	EXISTING STORM DRAIN LINE

NOTES

- EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF CONFLICTS WITH PROPOSED IMPROVEMENTS.
- SEE LAYOUT PLANS FOR ADDITIONAL COLD PLANE/ HMA OVERLAY INFORMATION.
- BASE FAILURE REPAIR AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER AFTER THE EXISTING AC HAS BEEN COLD PLANED.
- SEE DRAINAGE AND UTILITY, SIGNING AND STRIPING, AND STREET LIGHT PLANS FOR ADDITIONAL INFORMATION ON EXISTING FACILITIES.
- EXISTING WATER INFRASTRUCTURE IS ASBESTOS CONCRETE PIPE (ACP). APPROPRIATE HANDLING AND DISPOSAL OF REMOVED MATERIALS IS REQUIRED.
- ALL TRENCHING AND EXCAVATION ACTIVITIES TO PROVIDE 12" MINIMUM VERTICAL CLEARANCE TO EXISTING 16" GAS TRANSMISSION PIPELINE. COORDINATE WITH PG&E TRANSMISSION GROUP PRIOR TO CONSTRUCTION. CONTRACTOR SHALL POSITIVELY LOCATE 16" GAS TRANSMISSION PIPELINE PRIOR TO CONSTRUCTION.
- USE OF HAND TOOLS FOR EXCAVATION AND/OR DEMOLITION MAY BE REQUIRED BY PG&E IF WORK IS TO OCCUR NEAR THE 16" GAS TRANSMISSION PIPELINE AND WILL UP TO THE DISCRETION OF PG&E PIPELINE REPRESENTATIVES.

DEMOLITION NOTES

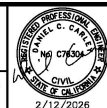
- EXISTING TO REMAIN.
- REMOVE TREE AND GRIND STUMP.
- SEE SHEET DU-01 FOR ADDITIONAL DETAILS.
- SEE SHEET SS-01 TO SS-03 FOR ADDITIONAL DETAILS.
- SEE SHEET FB-01 FOR STREET LIGHT MODIFICATIONS.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK	ELEV.	37.885'
DESCRIPTION		
HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.		

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

CITY OF SACRAMENTO					
DEPARTMENT OF PUBLIC WORKS					
DRAWN BY: <u>KYLE LIANG</u>		DESIGN BY: <u>DANIEL CARLEY</u>		CHECKED BY: <u>HUNTER YOUNG</u>	
DATE: <u>2023/2024</u>		R.C.E. <u>C76304</u> DATE: <u>2023</u>		R.C.E. <u>C76228</u> DATE: <u>5/25</u>	



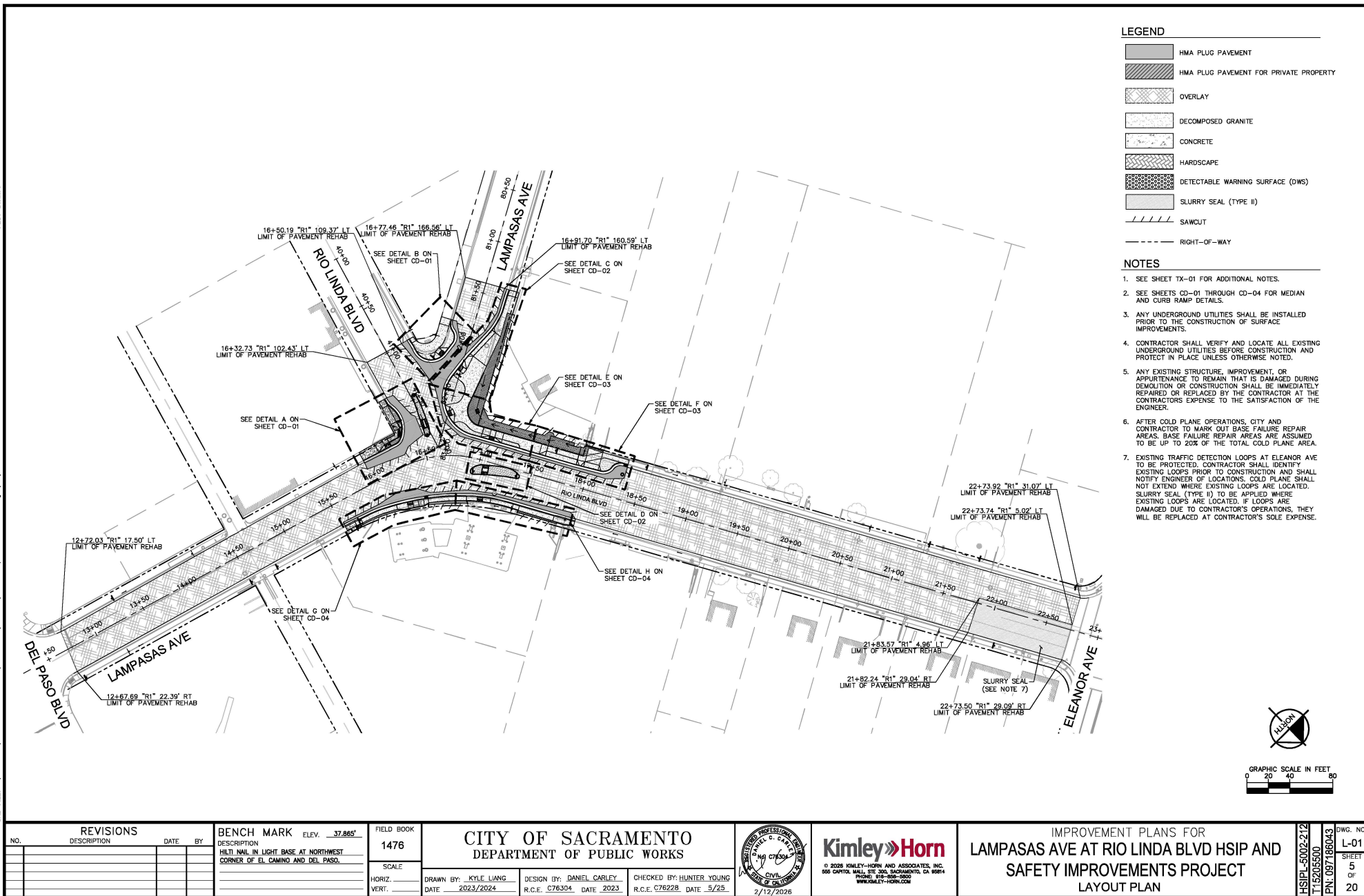
Kimley-Horn
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555 CAPITOL HALL, STE 300, SACRAMENTO, CA 95814
PHONE: 916-442-2800
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IMPROVEMENT PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
DEMOLITION PLANS

HSIP-5002-212	DWG. NO.	DM-01
T15205500	SHEET	4
PN 097186043	OF	20

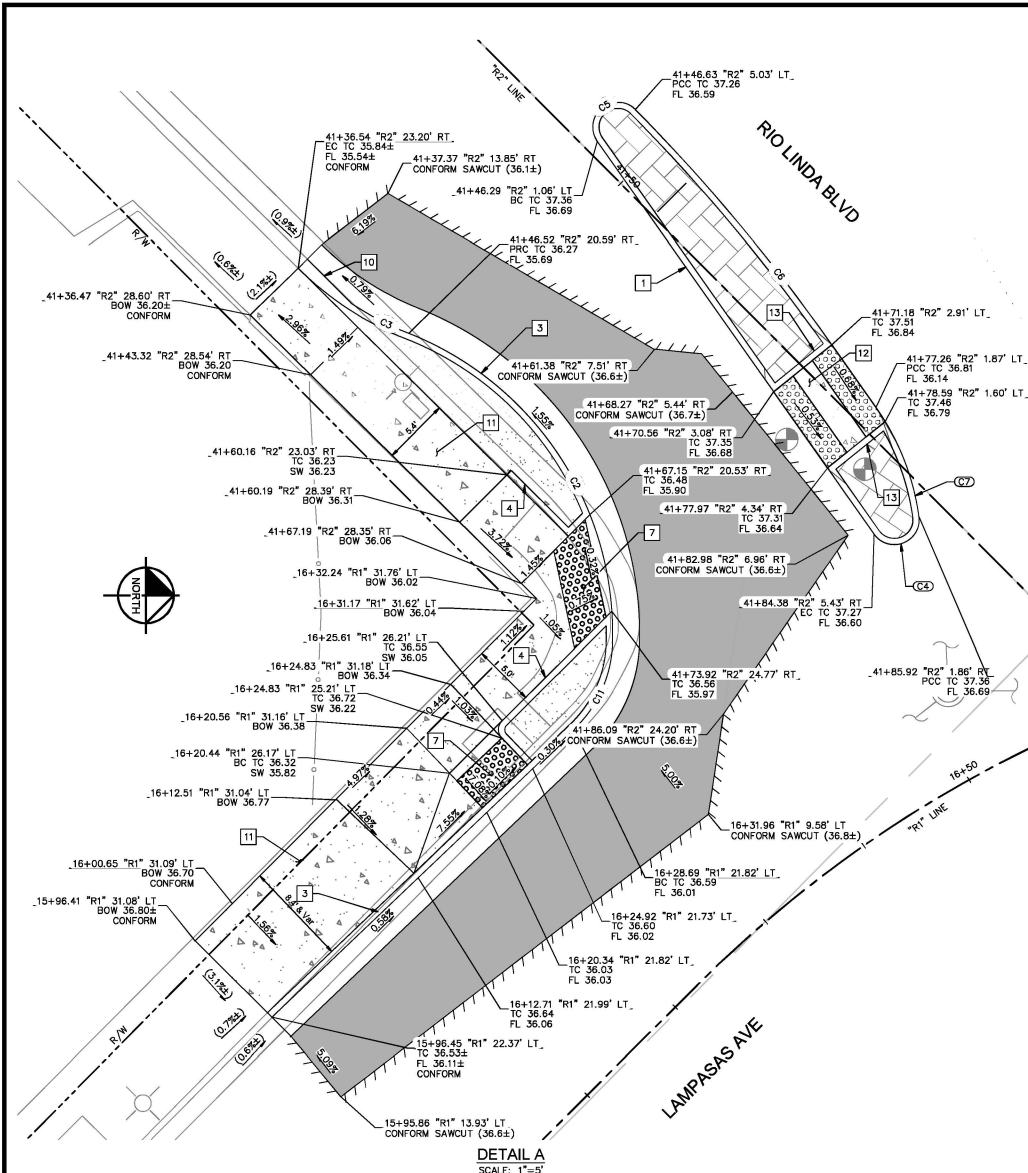
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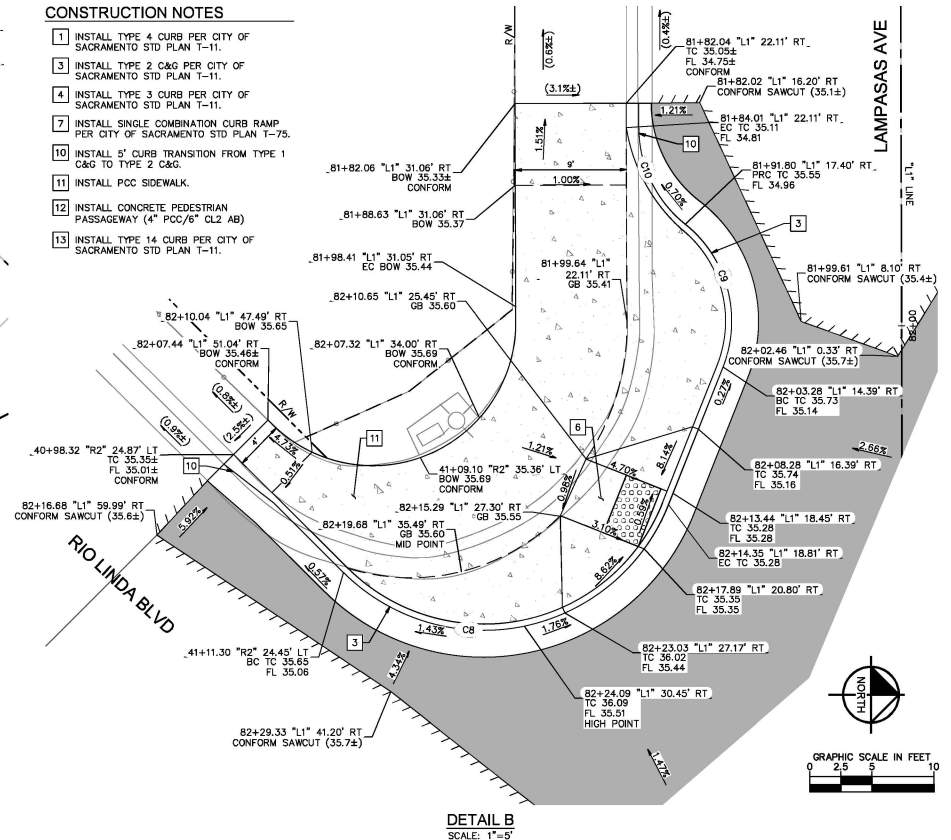


DETAIL A
SCALE: 1"=5'

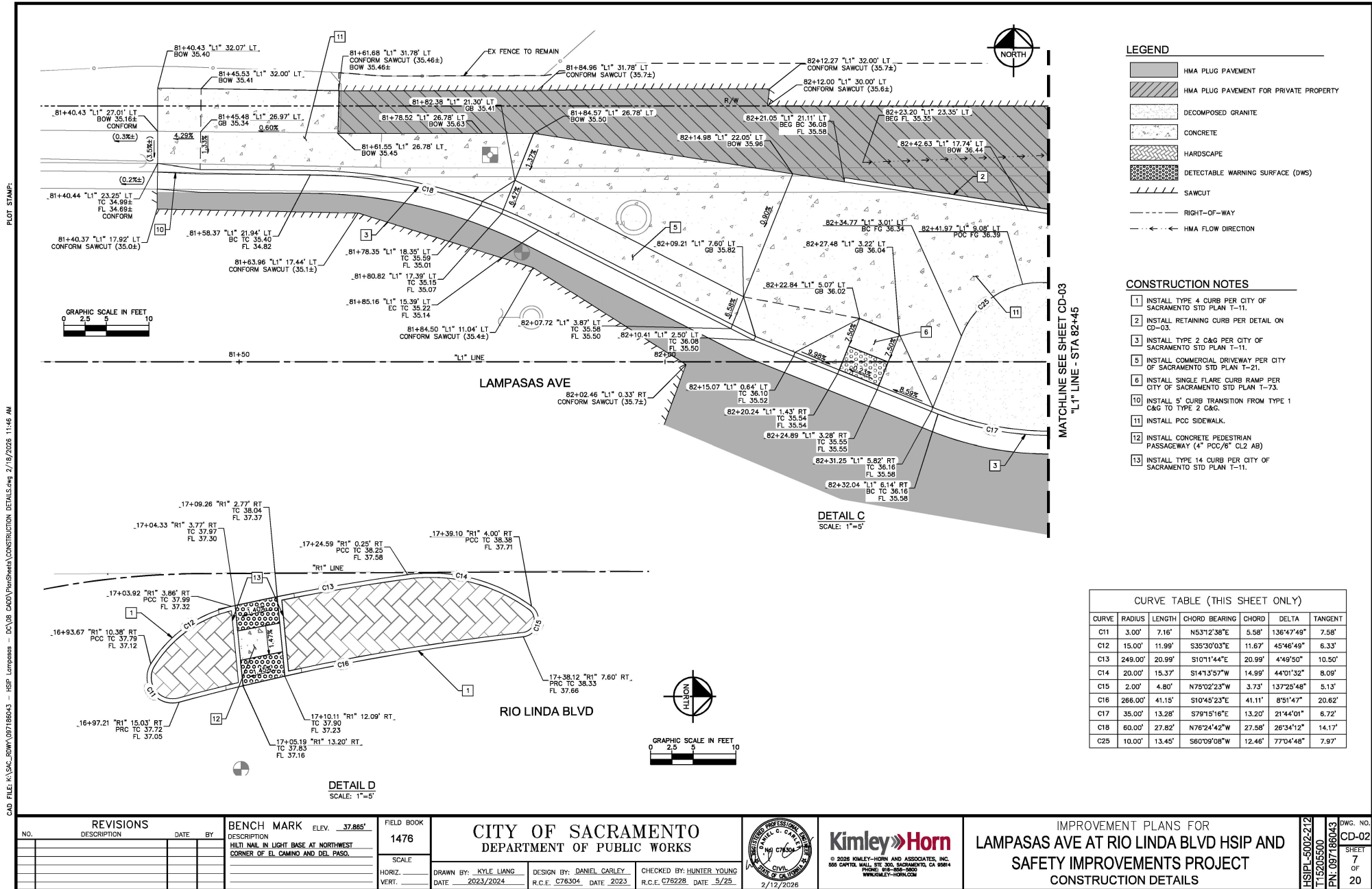
CURVE TABLE (THIS SHEET ONLY)						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C2	26.00'	31.71'	S56°35'08"W	29.78'	69°53'19"	16.17'
C3	25.50'	5.24'	N27°31'56"E	5.23'	11°46'54"	2.63'
C4	2.00'	5.33'	N21°32'19"W	3.89'	152°44'02"	8.25'
C5	2.00'	5.95'	S39°54'10"E	3.99'	170°32'16"	24.17'
C6	149.00'	24.61'	S50°05'50"W	24.58'	9°27'44"	12.33'
C7	20.00'	9.52'	S68°27'41"W	9.43'	27°15'58"	4.85'
C8	16.00'	31.61'	N11°47'28"W	26.71'	113°11'36"	24.26'
C9	10.00'	12.71'	S75°11'45"W	11.87'	72°49'58"	7.38'
C10	10.00'	8.92'	N64°19'47"E	8.63'	51°06'00"	4.78'
C11	10.00'	7.83'	N66°02'42"W	7.63'	44°51'00"	4.13'

CONSTRUCTION NOTES

1. INSTALL TYPE 4 CURB PER CITY OF SACRAMENTO STD PLAN T-11.
3. INSTALL TYPE 2 C&G PER CITY OF SACRAMENTO STD PLAN T-11.
4. INSTALL TYPE 3 CURB PER CITY OF SACRAMENTO STD PLAN T-11.
7. INSTALL SINGLE COMBINATION CURB RAMP PER CITY OF SACRAMENTO STD PLAN T-75.
10. INSTALL 5' CURB TRANSITION FROM TYPE 1 C&G TO TYPE 2 C&G.
11. INSTALL PCC SIDEWALK.
12. INSTALL CONCRETE PEDESTRIAN PASSAGEWAY (4" PCC/6" CL2 AB).
13. INSTALL TYPE 14 CURB PER CITY OF SACRAMENTO STD PLAN T-31.



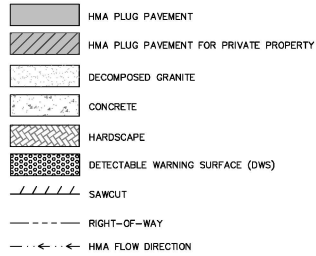
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PLOT STAMP:

LEGEND

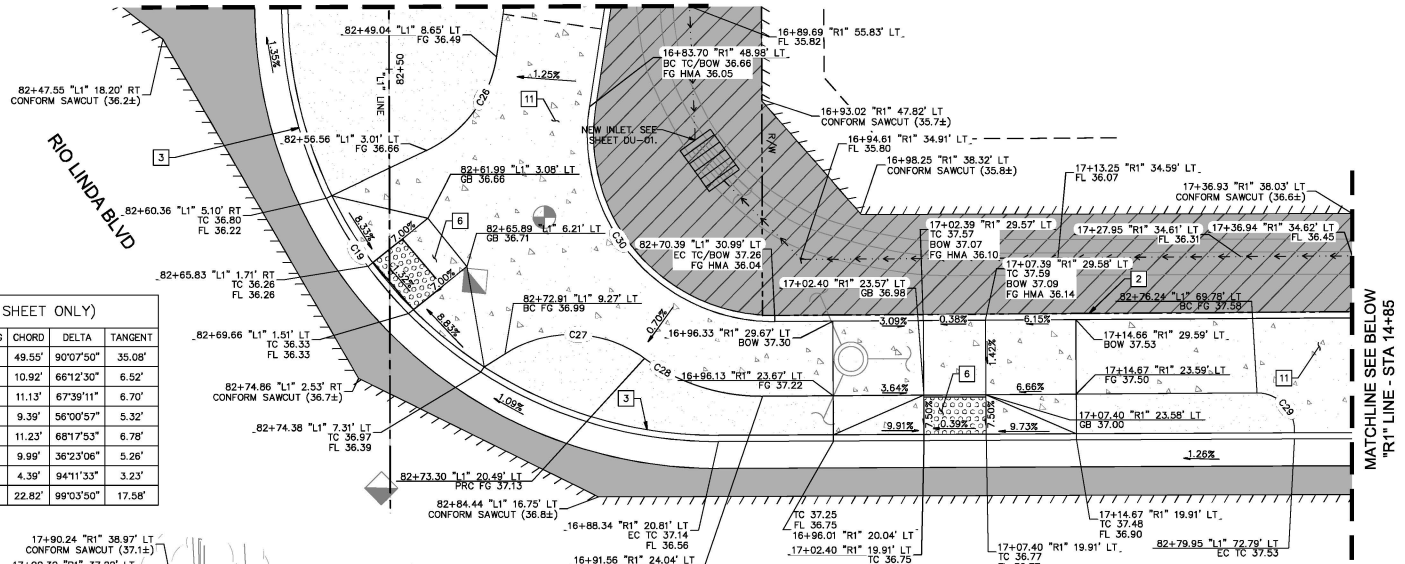


CONSTRUCTION NOTES

- INSTALL RETAINING CURB PER DETAIL ON CD-03.
- INSTALL TYPE 2 C&G PER CITY OF SACRAMENTO STD PLAN T-11.
- INSTALL COMMERCIAL DRIVEWAY PER CITY OF SACRAMENTO STD PLAN T-21.
- INSTALL SINGLE FLARE CURB RAMP PER CITY OF SACRAMENTO STD PLAN T-73.
- INSTALL PCC SIDEWALK.

CURVE TABLE (THIS SHEET ONLY)							
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT	
C19	35.00'	55.06'	N44°48'48"E	49.55'	90°07'50"	35.08'	
C20	10.00'	11.56'	N35°22'32"W	10.92'	66°12'30"	6.52'	
C21	10.00'	11.81'	S34°39'12"E	11.13'	67°39'11"	6.70'	
C26	10.00'	9.78'	N53°18'00"W	9.39'	56°00'57"	5.32'	
C27	10.00'	11.92'	S1°51'51"W	11.23'	68°17'53"	6.78'	
C28	16.00'	10.16'	N17°49'19"E	9.99'	36°23'06"	5.26'	
C29	3.00'	4.93'	S46°43'28"W	4.39'	94°11'33"	3.23'	
C30	15.00'	25.93'	N49°09'37"E	22.82'	99°03'50"	17.58'	

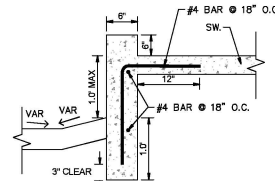
MATCHLINE SEE SHEET CD-02
"L1" LINE - STA 82+45



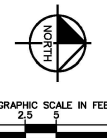
MATCHLINE SEE BELOW
"R1" LINE - STA 14+85

MATCHLINE SEE ABOVE
"R1" LINE - STA 14+85

DETAIL E
SCALE: 1"=5'



RETAINING CURB DETAIL
NTS



DETAIL F
SCALE: 1"=5'

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK

ELEV. 37.885'
HILTI NAIL IN LIGHT BASE AT NORTHWEST
CORNER OF EL CAMINO AND DEL PASO.

FIELD BOOK

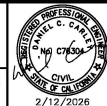
1476

SCALE

HORIZ. DATE 2023/2024
VERT. DATE 2023/2024

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

DRAWN BY: KYLE LIANG
DESIGN BY: DANIEL CARLEY
CHECKED BY: HUNTER YOUNG
DATE 2023/2024
R.C.E. C76304 DATE 2023
R.C.E. C76228 DATE 5/25

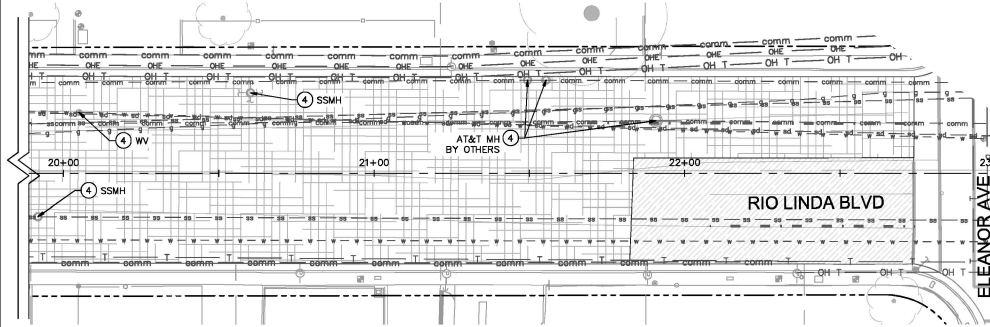


IMPROVEMENT PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
CONSTRUCTION DETAILS

DWG. NO. CD-03
SHEET 8 OF 20
HSIP-5002-212
T15205600
PN 097186043

NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CONTACTING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- ALL VALVES AND MANHOLES NOT CALLED OUT AND ARE WITHIN THE PROJECT LIMITS SHALL REMAIN AND BE ADJUSTED TO GRADE AS NEEDED UNLESS OTHERWISE NOTED.
- SEE LIGHTING AND ELECTRICAL PLANS FOR NEW LIGHTING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- SEE DEMOLITION PLANS FOR SIGNAL REMOVAL AND EXISTING STREET LIGHT INFORMATION.
- SOME EXISTING WATER INFRASTRUCTURE IS ASBESTOS CONCRETE PIPE (ACP). APPROPRIATE HANDLING AND DISPOSAL OF REMOVED MATERIALS IS REQUIRED.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH PG&E PRIOR TO CONSTRUCTION. PG&E STANDBY TO BE CONTACTED ACCORDING TO GOVERNMENT CODE REQUIREMENTS.
- EXISTING ASBESTOS CONCRETE WATER LINE SHALL BE ABANDONED WHERE SHOWN. THE EXISTING ASBESTOS CONCRETE WATER LINE TO REMAIN IS TO BE CAPPED PER CITY STANDARDS, INCLUDING THRUST BLOCKS.
- ALL WORK SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE LATEST CITY STANDARD DETAILS AND SPECIFICATIONS.
- A SOLID NO. 10 COPPER WIRE INSULATED WITH HIGH MOLECULAR WEIGHT POLYETHYLENE (BLUE COLOR ONLY) LOCATING WIRE SHALL BE PLACED WITH ALL PIPES FOR WATER DISTRIBUTION REGARDLESS OF MATERIAL TYPE. SEE W-102.
- NOTIFY UNDERGROUND SERVICE ALERT (USA) A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK. (CALL 1-800-642-2444).
- WATER SERVICE TAP SHALL BE SEPARATED AT A MINIMUM OF 36" CLEAR SEPARATION OF 36" SHALL BE MAINTAINED BETWEEN ALL FITTINGS, BELLS, SADDLES, ETC.
- THE CONTRACTOR SHALL SCHEDULE ALL REQUESTS FOR CITY INSTALLED WATER SYSTEMS OR TAPS, WATER MAIN SHUT DOWNS AND IRRIGATION TAPS WITH THE DEPARTMENT OF TRANSPORTATION, ENGINEERING DIVISION, FOR SCHEDULING AND COORDINATION, CALL (916) 808-6910 AT LEAST 14 WORKING DAYS IN ADVANCE.
- EXISTING WATER PIPE, VALVES, STANDPIPES, AND VALVE BOXES TO BE ABANDONED IN PLACE SHALL BE ABANDONED AS FOLLOWS: THE GATE VALVE SHALL BE LEFT IN THE CLOSED POSITION, AND THE STANDPIPE SHALL BE REMOVED AND VOID FILLED WITH CLASS 2 AGGREGATE BASE OR FEA GRAVEL. OPEN ENDS OF EXISTING PIPE TO BE ABANDONED IN PLACE SHALL BE SEALED WITH TWO FEET OF CONCRETE.
- WITHOUT EXCEPTION, ALL OPENING AND CLOSING OF VALVES ON EXISTING WATER MAINS, SHALL BE PERFORMED BY DEPARTMENT OF UTILITIES FIELD PERSONNEL.
- THE CONTRACTOR SHALL PAY ALL FEES FOR IRRIGATION TAPS, IRRIGATION METERS AND CITY INSTALLED WATER SYSTEM TIE-IN, METERS OR TAPS AT THE COMMUNITY DEVELOPMENT DEPARTMENT OFFICES AT 300 RICHARDS BLVD., THIRD FLOOR PUBLIC COUNTER. FOR ADDITIONAL INFORMATION CONCERNING FEES, CALL (916) 808-7890. THE PUBLIC COUNTER IS CURRENTLY CLOSED DUE TO COVID-19. FOR PAYMENT OF METER AND/OR TAP FEES ONLINE OR MAIL CONTACT A UTILITIES REPRESENTATIVE AT DOWDEVELOPMENTREVIEW@CITYOF.SACRAMENTO.ORG OR 916-808-7890 FOR PAYMENT INSTRUCTION. DEPARTMENT OF UTILITIES FIELD PERSONNEL SHALL NOT TAP MAINS OR PROVIDE OTHER SERVICE UNTIL ALL FEES HAVE BEEN PAID.
- FEES ARE SUBJECT TO CHANGE EVERY JULY 1ST OR AT ANY TIME. FOR CURRENT FEE SCHEDULE VISIT [HTTP://WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS](http://www.cityofsacramento.org/utilities/development-standards).
- EXISTING CITY FIRE HYDRANTS REMOVED OR REPLACED BY THE CONTRACTOR SHALL BE RETURNED TO THE DEPARTMENT OF UTILITIES FIELD OFFICE AT 5730 24TH ST, BUILDING 7.
- REQUEST FOR PUBLIC FIRE HYDRANT USE PERMIT FOR CONSTRUCTION PURPOSES SHALL BE APPLIED FOR AT THE DEPARTMENT OF UTILITIES, CUSTOMER SERVICE SECTION, 1395 35TH AVENUE. FOR PERMIT INFORMATION, CALL (916) 808-5454.
- PROPOSED GRAVITY AND EXISTING UNDERGROUND UTILITY INFRASTRUCTURE SHALL GOVERN THE VERTICAL CROSSING OF PROPOSED WATER MAIN CONSTRUCTION. CONTRACTOR SHALL RAISE/LOWER PROPOSED WATER LINES AS NEEDED TO AVOID CONFLICT WITH OTHER UTILITIES PER CITY OF SACRAMENTO STANDARD DETAILS W-103 AND W-106. CITY INSPECTOR SHALL DIRECT CONTRACTOR TO RAISE/LOWER WATER MAIN TO AVOID CONFLICT BASED ON ACTUAL FIELD CONDITIONS.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL USE ALL EXISTING UTILITIES AND POTHOLES ALL PROPOSED UTILITY CROSSINGS TO IDENTIFY POTENTIAL UTILITY CONFLICT PRIOR TO CONSTRUCTION. IF EXISTING UTILITIES ARE FOUND TO BE IN CONFLICT WITH PROPOSED IMPROVEMENTS, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.
- LOCATION, NUMBER, AND SIZE OF EXISTING WATER SERVICES TO BE CONNECTED TO NEW WATER MAIN ARE BASED ON SITE OBSERVATIONS - CONTRACTOR TO VERIFY ACTUAL NUMBER, SIZE AND LOCATIONS PRIOR TO CONSTRUCTION.



LEGEND

- HMA PLUG PAVEMENT
- HMA PLUG PAVEMENT FOR PRIVATE PROPERTY
- DECOMPOSED GRANITE
- OVERLAY
- CONCRETE
- HARDSCAPE
- DETECTABLE WARNING SURFACE (DWS)
- SAWCUT
- RIGHT-OF-WAY
- EXISTING 12" SANITARY SEWER LINE
- EXISTING 2" GAS LINE
- EXISTING 16" GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING TELEPHONE LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING 6" WATER LINE
- PROPOSED 2" OR 6" WATER LINE (SEE PLANS)
- EXISTING 18" STORM DRAIN LINE
- ABANDON EXISTING 4" WATER LINE
- EXISTING STREET LIGHT
- EXISTING MANHOLE
- EXISTING WATER VALVE
- APPROXIMATE POTHOLE LOCATION

DRAINAGE NOTES

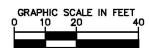
- INSTALL TYPE "B" DRAINAGE INLET PER CITY OF SACRAMENTO STD PLAN S-10.
- INSTALL 12" RCP.
- INSTALL STANDARD STORM DRAIN MANHOLE PER CITY OF SACRAMENTO STD PLAN S-70.
- MODIFY TO FIELD INLET.

UTILITY NOTES

- EXISTING TO REMAIN.
- REMOVE.
- RELOCATE.
- ADJUST TO GRADE.
- INSTALL.
- ABANDON.

UTILITY POSITIVE LOCATION TABLE

POTHOLE #	UTILITY TYPE	STA/OFF	NORTHING	EASTING	APPROXIMATE TOP OF PIPE ELEV
1	16" GAS	"R1" 13+59.16/24.11' RT	1986162.5	6719963.4	30.8
2	16" GAS	"L1" 82+14.39/6.87' RT	1986175.2	6719823.5	30.1
3	2" GAS	"L1" 82+33.46/3.06' RT	1986179.0	679842.6	32.6



REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK

ELEV.	37.865'
DESCRIPTION	HITI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.

FIELD BOOK

1476
SCALE
HORIZ.
VERT.

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

DRAWN BY: KYLE LIANG	DESIGN BY: DANIEL CARLEY	CHECKED BY: HUNTER YOUNG
DATE: 2023/2024	R.C.E. C76304 DATE 2023	R.C.E. C78228 DATE 5/25



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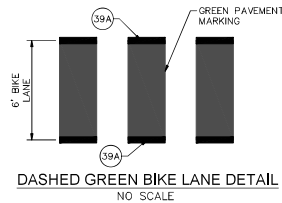
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505 CAPITOL HILL, STE 300, SACRAMENTO, CA 95814
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IMPROVEMENT PLANS FOR LAMPASAS AVE AT RIO LINDA BLVD HSIP AND SAFETY IMPROVEMENTS PROJECT DRAINAGE AND UTILITY PLANS

HSIP-5002-212	DWG. NO.
T15205500	DU-01
PN 097186043	SHEET
	10
	OF
	20

SIGNING AND STRIPING GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SACRAMENTO DESIGN AND PROCEDURES MANUAL AND STANDARD PLANS, LATEST EDITION, THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED NOVEMBER 2020, CALTRANS STANDARD PLANS, LATEST EDITION, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), 2014 EDITION.
- THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK WITHIN THE PUBLIC RIGHT OF WAY ONLY.
- ALL EXISTING SIGNING, STRIPING, AND MARKINGS TO REMAIN, UNLESS OTHERWISE NOTED. CONFLICTS BETWEEN EXISTING AND PROPOSED SHALL BE RESOLVED BY THE ENGINEER.
- ALL STRIPING AND MARKINGS SHALL BE THERMOPLASTIC, UNLESS NOTED OTHERWISE. 3M TAPE (OR APPROVED EQUIVALENT) SHALL BE USED ON CONCRETE SURFACES.
- EXACT POSITION AND LOCATION OF ALL ROADSIDE SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- REMOVAL OF EXISTING STRIPING AND PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY APPROVED GRINDING METHOD.
- CROSSWALKS SHALL BE 12 FEET WIDE INCLUDING THE 12" SOLID PAVEMENT MARKINGS AND SHALL BE WHITE UNLESS OTHERWISE NOTED.
- ALL SIGNING AND STRIPING WORK SHALL BE COORDINATED WITH THE ELECTRICAL WORK AS DIRECTED BY THE ENGINEER.
- LANE WIDTHS ADJACENT TO CURBS ARE MEASURED TO THE FACE OF CURB.
- TRAFFIC SIGNS SHALL BE INSTALLED BEHIND THE SIDEWALK WHEN THE SIDEWALK IS IMMEDIATELY ADJACENT TO THE CURB. SIGNS SHALL BE INSTALLED BETWEEN THE CURB AND SIDEWALK WHEN THE SIDEWALK IS DETACHED. SIGNS IN PEDESTRIAN AREAS SHALL HAVE A CLEARANCE FROM THE GROUND OF AT LEAST SEVEN FEET. IF THIS CLEARANCE REQUIREMENT IS NOT SATISFIED AFTER THE INSTALLATION OF ADDITIONAL SIGN PANELS, CONTRACTOR SHALL INSTALL A NEW SIGN POST.
- ALL ROADWAY SIGNS (REGULATORY, WARNING, GUIDE, SCHOOL ZONE AND OBJECT MARKERS) SHALL INCLUDE ASTM TYPE XI SHEETING. FOR ALL OTHER SIGNS, USE ASTM TYPE II SHEETING. FLUORESCENT YELLOW-GREEN SHALL NOT BE USED IN ANY SIGNS OTHER THAN SCHOOL RELATED SIGNAGE.
- MOUNT SIGNS USING BANDING ON SIGNAL AND STREET LIGHT POLES WHERE FEASIBLE. SEE ELECTRICAL PLANS FOR POLE LOCATIONS.
- CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE EXACT STREET NAME AND STREET ADDRESS FOR PLACEMENT ON STREET NAME SIGNS PRIOR TO ORDERING SIGNS.
- ALL SIGNS REGULATING PARKING SHALL BE DOUBLE SIDED AND SIDE MOUNTED, UNLESS SHOWN OTHERWISE.
- AT NEWLY SIGNALIZED LOCATIONS, REMOVE EXISTING STOP SIGNS, STOP LEGENDS AND STANCHIONS AT THE TIME SIGNAL IS TURNED ON.
- CONTRACTOR SHALL DELIVER ALL REMOVED ROADWAY SIGNS TO THE CITY OF SACRAMENTO SOUTH AREA CORPORATION YARD AT 5730 24TH STREET, BLDG 10, 95822, PHONE (916) 808-4038.



REMOVED SIGNS SHALL BE DELIVERED TO THE CITY OF SACRAMENTO SOUTH AREA CORPORATION YARD PER SIGNING AND STRIPING GENERAL NOTE 16

REMOVED EXISTING SIGNS

SIGN	QUANTITY	SHEET
R1-1	1	SS-02
BUS STOP	1	SS-02
W11-2	1	SS-02
R61-19 (CA)	1	SS-03

LEGEND

- ★ INSTALL ROADSIDE SIGN
- ◆ REMOVE ROADSIDE SIGN
- ▲ RELOCATE EXISTING SIGN
- EXISTING ROADSIDE SIGN TO REMAIN
- ↓ EXISTING ROADSIDE SIGN LOCATION
- ↓ PROPOSED ROADSIDE SIGN LOCATION (CENTER MOUNTED ON POLE)
- PROPOSED ROADSIDE SIGN LOCATION (SIDE MOUNTED ON POLE)
- MAS MAST ARM MOUNTED SIGN
- ## REMOVE EXISTING TRAFFIC STRIPING OR PAVEMENT MARKING
- EXISTING SIGNAL/STREET LIGHT POLE
- PROPOSED SIGNAL/STREET LIGHT POLE
- PROPOSED SIGNAL POLE WITH MAST ARM
- ## PROPOSED CA MUTCD STRIPING DETAIL NUMBER WITH LENGTH IN FEET
- ## EXISTING STRIPING WITH CA MUTCD STRIPING DETAIL NUMBER
- BIKE LANE PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3(C)
- TYPE IV, PAVEMENT ARROW (LEFT OR RIGHT)
- +XX BEGIN/END STRIPING STATION VALUE
- RF RREFB SIGN

SIGN SCHEDULE

CALLOUT	MUTCD CODE	DESCRIPTION	INSTALL
	W1-2 (L)	CURVE SIGN	1
	W1-2 (R)	CURVE SIGN	1
	W4-2	LANE ENDS SIGN	1
	W9-1	RIGHT LANE ENDS SIGN	1
	W11-2	PEDESTRIAN CROSSING SIGN	18
	W14-2	NO OUTLET SIGN	1
	W16-7FR	RIGHT DIAGONAL ARROW SIGN	6
	W16-7PL	LEFT DIAGONAL ARROW SIGN	7
	W16-9P	AHEAD SIGN	1
	R1-5	YIELD TO PEDESTRIANS SIGN	2
	TYPE K-1 (CA)	OBJECT MARKER	1
	R3-7	RIGHT LANE MUST TURN RIGHT SIGN	2
	R4-1	DO NOT PASS SIGN	1
	R4-7	KEEP RIGHT SIGN	3
	R5-1	DO NOT ENTER SIGN	2
	R5-1a	WRONG WAY SIGN	2
	R26 (CA) (DOUBLE SIDED)	NO PARKING SIGN	4

PAVEMENT MARKING SCHEDULE

PATTERN OR LEGEND	INSTALL	
	No.	TOTAL SQ. FT.
LIMIT LINE	2	57
TYPE I ARROW	1	14
TYPE VII (R) ARROW	1	27
TYPE IV (L) ARROW	3	45
TYPE IV (R) ARROW	2	30
SHARROW MARKING	4	46
BIKE LANE MARKING	5	73
YIELD LINE	2	18
STOP MARKING	1	22
TYPE VI ARROW	3	128
XING MARKING	2	40
PED MARKING	2	34
SLOW MARKING	2	40
GREEN BIKE CONFLICT MARKING	13	1915
TRIPLE FOUR CROSSWALK	4	352

STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND	INSTALL (LF)
9	LANE LINE	201
22	NO PASSING CENTERLINE	247
24	LEFT EDGE LINE	58
25A	LEFT EDGE LINE (WITH RETROREFLECTORS)	133
27B	RIGHT EDGE LINE	545
29	MEDIAN ISLANDS (WITH RETROREFLECTORS)	193
32	TWO WAY LEFT TURN LANE	406
38	CHANNELIZING LINE	149
39	BIKE LANE LINE	2099
39A	INTERSECTION BIKE LANE LINE	674
40	LANE LINE EXTENSION THROUGH INTERSECTION	229

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.865'
DESCRIPTION
HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.

FIELD BOOK
1476

SCALE
HORIZ. _____
VERT. _____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: KYLE LIANG DESIGN BY: DANIEL CARLEY CHECKED BY: HUNTER YOUNG
DATE: 2023/2024 R.C.E. C76304 DATE: 2023 R.C.E. C76228 DATE: 5/25



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IMPROVEMENT PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
SIGNING & STRIPING NOTES

HSIP-5002-212
T15205500
PN 097186043
DWG. NO.
SS-01
SHEET
11
OF
20

CAD FILE: K:\SAC_DRAW\097186043 - HSIP Lompasas - DC\08 CADD\HardReeta\SIGNING & STRIPING PLANS.dwg 3/13/2024 11:05 AM

PLOT STAMP:

LEGEND

- ★ INSTALL ROADSIDE SIGN
- ◆ REMOVE ROADSIDE SIGN
- ▲ RELOCATE EXISTING SIGN
- EXISTING ROADSIDE SIGN TO REMAIN
- ↓ EXISTING ROADSIDE SIGN LOCATION
- ↓ PROPOSED ROADSIDE SIGN LOCATION (CENTER MOUNTED ON POLE)
- ↓ PROPOSED ROADSIDE SIGN LOCATION (SIDE MOUNTED ON POLE)
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- ## PROPOSED CA MUTCD STRIPING DETAIL NUMBER WITH LENGTH IN FEET
- ## EXISTING STRIPING WITH CA MUTCD STRIPING DETAIL NUMBER
- BIKE LANE PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3(C)
- TYPE IV PAVEMENT MARKING (LEFT OR RIGHT)
- +XX BEGIN/END STRIPING STATION VALUE
- RRFB SIGN

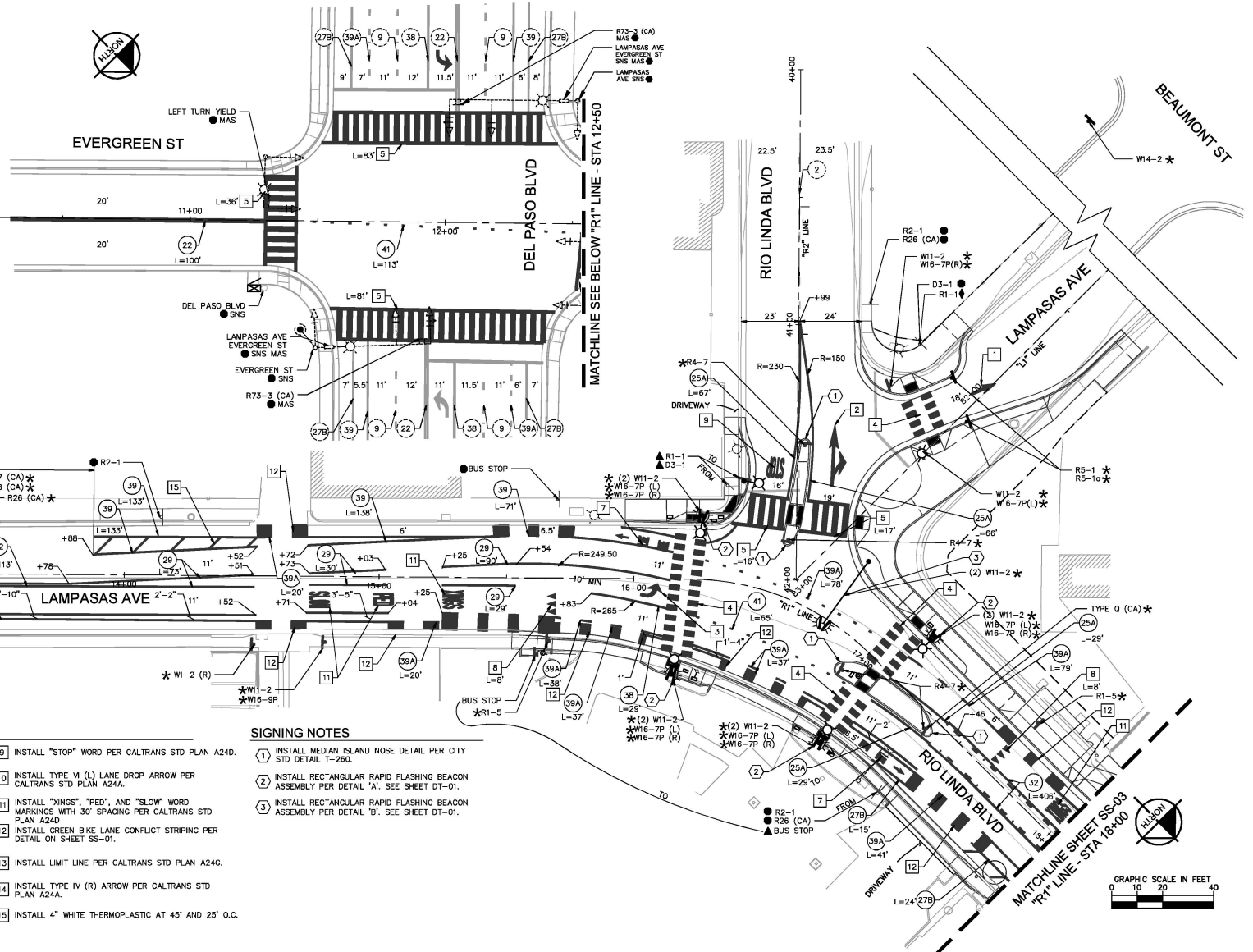
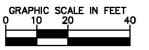
MATCHLINE SEE ABOVE "R1" LINE - STA 12+50

STRIPING NOTES

- INSTALL TYPE I ARROW PER CALTRANS STD PLAN A24A.
- INSTALL TYPE VII (R) ARROW PER CALTRANS STD PLAN A24A.
- INSTALL TYPE IV (L) ARROW PER CALTRANS STD PLAN A24A.
- INSTALL WHITE TRIPLE FOUR CROSSWALK PER CITY STD DETAIL T-185.
- INSTALL WHITE LADDER CROSSWALK PER CITY STD DETAIL T-186.
- INSTALL SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD PLAN A24C.
- INSTALL "BIKE LANE" WORDS AND BIKE LANE ARROW PER CALTRANS STD PLAN A24A AND A24D.
- INSTALL YIELD LINE PER CALTRANS STD PLAN A24G.
- INSTALL "STOP" WORD PER CALTRANS STD PLAN A24D.
- INSTALL TYPE VI (L) LANE DROP ARROW PER CALTRANS STD PLAN A24A.
- INSTALL "XINGS", "PED", AND "SLOW" WORD MARKINGS WITH 30' SPACING PER CALTRANS STD PLAN A24D.
- INSTALL GREEN BIKE LANE CONFLICT STRIPING PER DETAIL ON SHEET SS-01.
- INSTALL LIMIT LINE PER CALTRANS STD PLAN A24G.
- INSTALL TYPE IV (R) ARROW PER CALTRANS STD PLAN A24A.
- INSTALL 4" WHITE THERMOPLASTIC AT 45° AND 25° O.C.

SIGNING NOTES

- INSTALL MEDIAN ISLAND NOSE DETAIL PER CITY STD DETAIL T-260.
- INSTALL RECTANGULAR RAPID FLASHING BEACON ASSEMBLY PER DETAIL "A". SEE SHEET DT-01.
- INSTALL RECTANGULAR RAPID FLASHING BEACON ASSEMBLY PER DETAIL "B". SEE SHEET DT-01.



REVISIONS				BENCH MARK	ELEV.	37.865'	FIELD BOOK	CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS					 © 2026 KIMLEY-HORN AND ASSOCIATES, INC. 1555 CAPITOL Mall, STE 300, SACRAMENTO, CA 95814 PHONE: 916-558-5000 WWW.KIMLEY-HORN.COM		IMPROVEMENT PLANS FOR LAMPASAS AVE AT RIO LINDA BLVD HSIP AND SAFETY IMPROVEMENTS PROJECT SIGNING & STRIPING PLAN		HSIP-6002-212	DWG. NO. SS-02
NO.	DESCRIPTION	DATE	BY															
				DESCRIPTION			1476											
				HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.				SCALE										
								HORIZ.	DRAWN BY: KYLE LIANG	DESIGN BY: DANIEL CARLEY	CHECKED BY: HUNTER YOUNG							
								VERT.	DATE 2023/2024	R.C.E. C76304 DATE 2023	R.C.E. C76228 DATE 5/25							
												7/12/2026						
															</			

CAD FILE: K:\SAC_BROW\097186043 - HSIP Lamps - DC\08 CAD\Drawings\HSIP\STRIPING & STRIPING PLAN\SS-03.dwg 3/13/2026 11:05 AM

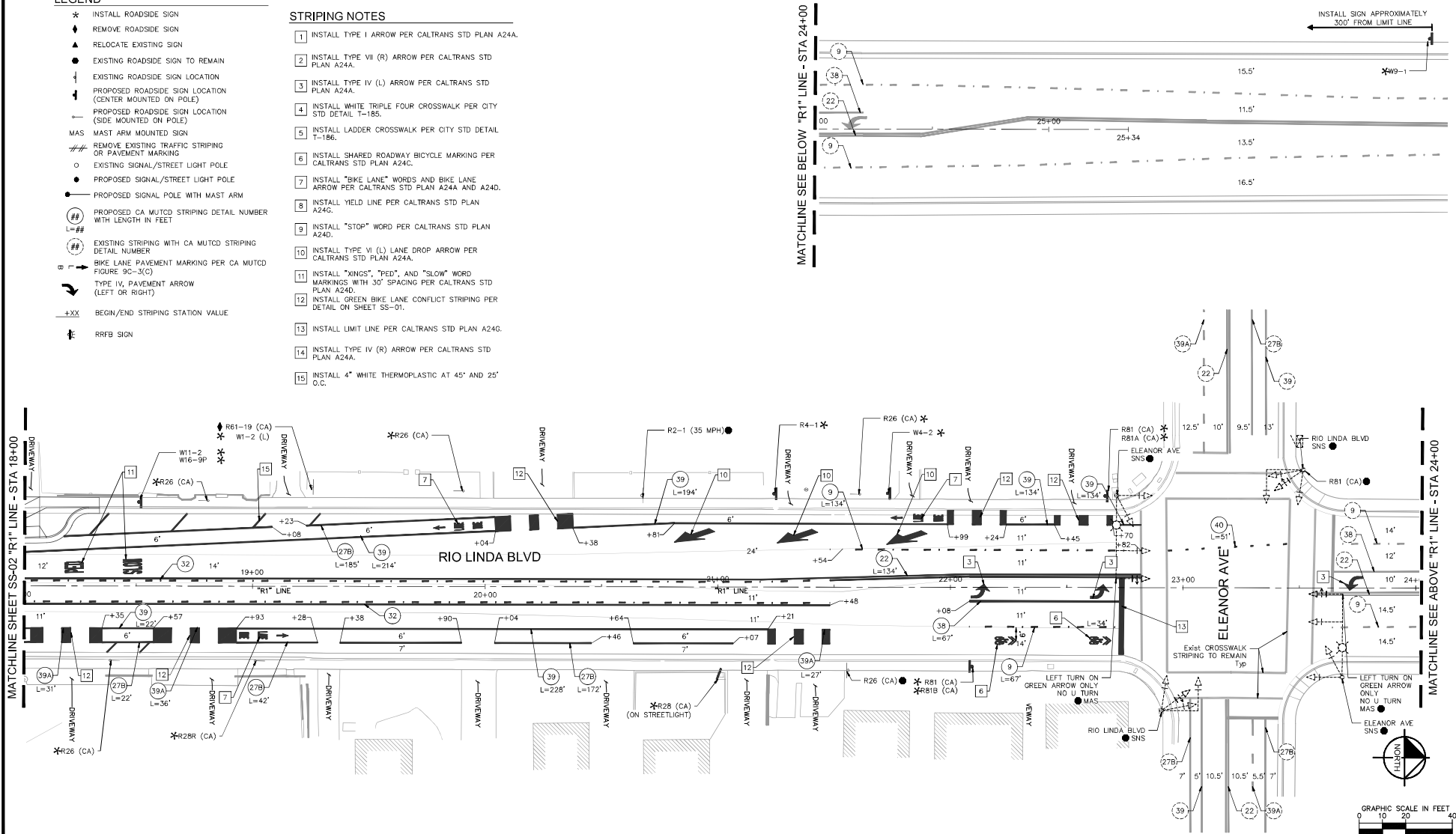
PLOT STAMP

LEGEND

- * INSTALL ROADSIDE SIGN
- ◆ REMOVE ROADSIDE SIGN
- ▲ RELOCATE EXISTING SIGN
- EXISTING ROADSIDE SIGN TO REMAIN
- ↓ EXISTING ROADSIDE SIGN LOCATION
- ↓ PROPOSED ROADSIDE SIGN LOCATION (CENTER MOUNTED ON POLE)
- ↓ PROPOSED ROADSIDE SIGN LOCATION (SIDE MOUNTED ON POLE)
- MAS MAST ARM MOUNTED SIGN
- /// REMOVE EXISTING TRAFFIC STRIPING OR PAVEMENT MARKING
- EXISTING SIGNAL/STREET LIGHT POLE
- PROPOSED SIGNAL/STREET LIGHT POLE
- PROPOSED SIGNAL POLE WITH MAST ARM
- ## PROPOSED CA MUTCD STRIPING DETAIL NUMBER WITH LENGTH IN FEET
- ## EXISTING STRIPING WITH CA MUTCD STRIPING DETAIL NUMBER
- BIKE LANE PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3(C)
- TYPE IV, PAVEMENT ARROW (LEFT OR RIGHT)
- +XX BEGIN/END STRIPING STATION VALUE
- RRFB SIGN

STRIPING NOTES

1. INSTALL TYPE I ARROW PER CALTRANS STD PLAN A24A.
2. INSTALL TYPE VII (R) ARROW PER CALTRANS STD PLAN A24A.
3. INSTALL TYPE IV (L) ARROW PER CALTRANS STD PLAN A24A.
4. INSTALL WHITE TRIPLE FOUR CROSSWALK PER CITY STD DETAIL T-185.
5. INSTALL LADDER CROSSWALK PER CITY STD DETAIL T-186.
6. INSTALL SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD PLAN A24C.
7. INSTALL "BIKE LANE" WORDS AND BIKE LANE ARROW PER CALTRANS STD PLAN A24A AND A24D.
8. INSTALL YIELD LINE PER CALTRANS STD PLAN A24G.
9. INSTALL "STOP" WORD PER CALTRANS STD PLAN A24D.
10. INSTALL TYPE VI (L) LANE DROP ARROW PER CALTRANS STD PLAN A24A.
11. INSTALL "XINGS", "PED", AND "SLOW" WORD MARKINGS WITH 30' SPACING PER CALTRANS STD PLAN A24D.
12. INSTALL GREEN BIKE LANE CONFLICT STRIPING PER DETAIL ON SHEET SS-01.
13. INSTALL LIMIT LINE PER CALTRANS STD PLAN A24G.
14. INSTALL TYPE IV (R) ARROW PER CALTRANS STD PLAN A24A.
15. INSTALL 4" WHITE THERMOPLASTIC AT 45' AND 25' O.C.



REVISIONS				BENCH MARK	ELEV.	FIELD BOOK	CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS			Kimley-Horn	IMPROVEMENT PLANS FOR LAMPASAS AVE AT RIO LINDA BLVD HSIP AND SAFETY IMPROVEMENTS PROJECT SIGNING & STRIPING PLAN		
NO.	DESCRIPTION	DATE	BY										
				HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.	37.865'	1476	DRAWN BY: KYLE LIANG DATE: 2023/2024 DESIGN BY: DANIEL CARLEY R.C.E. C76304 DATE 2023 CHECKED BY: HUNTER YOUNG R.C.E. C76228 DATE 5/25			2/19/2026	© 2026 KIMLEY-HORN AND ASSOCIATES, INC. 555 CAPITOL Mall, STE 300, SACRAMENTO, CA 95814 PHONE: 916-856-5800 WWW.KIMLEY-HORN.COM		
							SCALE				HSIP-L-5002-212		
							HORIZ.				T15205500		
							VERT.				PN 097186043		
											DWG. NO. SS-03		
											SHEET 13 OF 20		

LUMINAIRE SCHEDULES

SERVICE No. 2797 (NEW)

NEW METERED SERVICE No. 2797 (120/240V) IS LOCATED ON THE WEST SIDE OF THE RIO LINDA BLVD INTERSECTION WITH LAMPASAS AVE BEHIND THE BACK OF WALK RADIUS IN FRONT OF THE SMOKE SHOP. CONNECT NEW RRFBs TO 20A SIGNAL BREAKER. CONNECT NEW LUMINAIRES TO LIGHTING 1 CIRCUIT.

CIRCUIT NUMBER	PROP 110W LED MASTARM	PROP 110W LED MAST ARM
SIGNAL	2	—
LIGHTING 1	—	4
TOTAL:	2	4

EXISTING SERVICE No. 2135 (E-4030-E06)

EXISTING SERVICE No. 2135 (120/240V) IS LOCATED ON THE SOUTH SIDE OF RIO LINDA BLVD, 250' EAST OF SANTIAGO AVENUE.

CIRCUIT NUMBER	EXISTING 110W LED MASTARM	EXISTING 34W LED ORNAMENTAL
1	1	3
2	1	2
3	—	4
4	—	5
TOTAL:	2	14

CONSTRUCTION NOTES

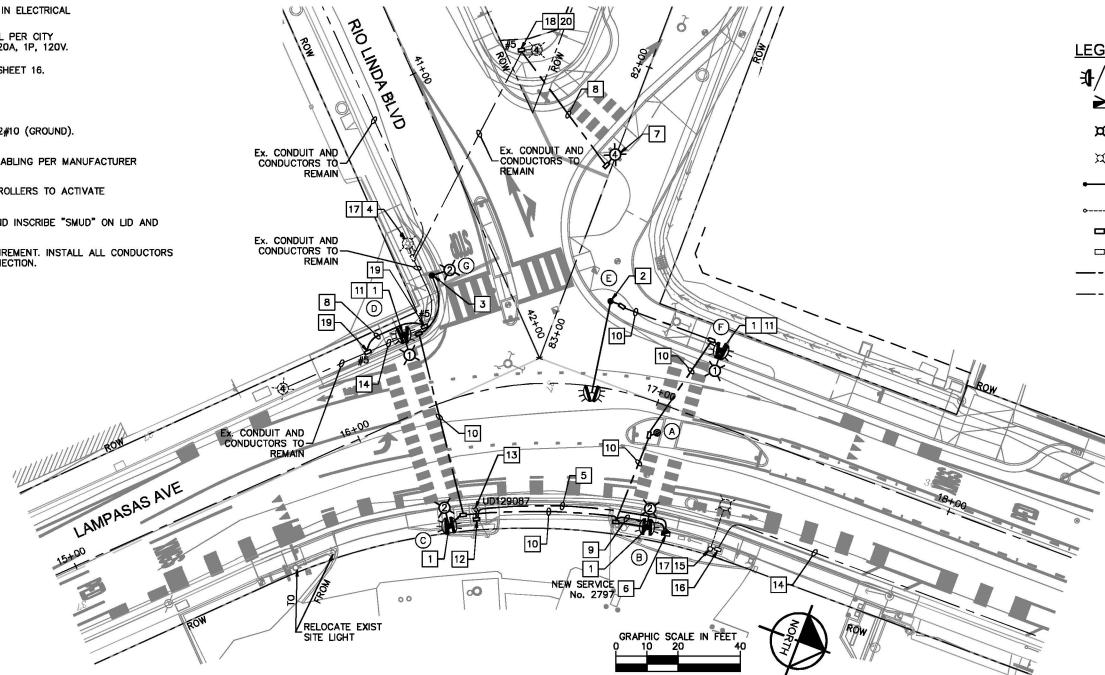
- FURNISH AND INSTALL 20' TYPE 15TS POLE, RRFB ASSEMBLY, SIGNS, AND LUMINAIRE PER DETAIL 'A' SHEET 15. ANGLE RRFBs TO FACE APPROACHING VEHICLES.
- FURNISH AND INSTALL 19'-3-100 POLE, RRFB ASSEMBLY, SIGNS, AND LUMINAIRE PER DETAIL 'B' SHEET 15. ANGLE RRFBs TO FACE APPROACHING VEHICLES.
- FURNISH AND INSTALL 20' TYPE 15 POLE AND LUMINAIRE PER DETAIL 'C' SHEET 15.
- RELOCATE EXISTING ORNAMENTAL STREET LIGHT. ABANDON FOUNDATION. LOCATION PER CONSTRUCTION NOTE 7.
- FURNISH AND INSTALL 3"Ø, 3/8" THW (120/240 V SERVICE). PROVIDE SUFFICIENT SLACK IN ELECTRICAL VAULT TO MAKE CONNECTION WITH SMUD.
- FURNISH AND INSTALL NEW CITY STANDARD TRAFFIC SIGNAL METERED SERVICE PEDESTAL PER CITY STANDARD DETAILS. SEE SHEET 18. REPLACE STANDARD 60A, 1P, 120V BREAKER WITH 20A, 1P, 120V. FRONT DOOR SHALL FACE EAST.
- INSTALL RELOCATED ORNAMENTAL STREETLIGHT ON NEW FOUNDATION, PER DETAILS ON SHEET 16.
- FURNISH AND INSTALL 2"Ø, 2#6 THW (120 V LIGHTING), 1#10 (GROUND).
- FURNISH AND INSTALL 2"Ø, 3#6 THW (120 V LIGHTING), 2#8 THW (RRFB CONTROLLER), 2#10 (GROUND).
- FURNISH AND INSTALL 2-3"Ø, 3#6 THW (120 V LIGHTING), 1#10 (GROUND), RRFB/APS CABLING PER MANUFACTURER RECOMMENDATION.
- FURNISH AND INSTALL RRFB CONTROLLER CABINET ON TS POLE. CONFIGURE RRFB CONTROLLERS TO ACTIVATE SIMULTANEOUSLY.
- FURNISH AND INSTALL 17"x30"x18" SMUD SECONDARY BOX PER SMUD REQUIREMENTS AND INSCRIBE "SMUD" ON LID AND ADJUST TO GRADE.
- INSTALL 10' RISER OF 3" SCHEDULE 80 PVC CONDUIT ON SMUD POLE PER SMUD REQUIREMENT. INSTALL ALL CONDUCTORS FROM ELECTRICAL VAULT TO TOP OF RISER. COORDINATE WITH SMUD FOR SERVICE CONNECTION.
- ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- REMOVE AND SALVAGE TO CITY.
- REMOVE TO CONTRACTOR.
- ABANDON FOUNDATION IN PLACE. MATCH FINISHED GRADE.
- INSTALL CONDUIT INTO EXISTING PULL BOX.
- INSTALL PULL BOX IN EXISTING CONDUIT RUN AND RECONNECT CONDUCTORS.
- REPLACE EXISTING PULL BOX WITH NEW NO. 5 PULL BOX.

RRFB AND STREETLIGHT POLE AND EQUIPMENT SCHEDULE

POLE	STANDARD/EQUIPMENT			LUMINAIRE		SIGNS	RRFB	APS	NOTES
	TYPE	HGT	ARM	ARM	TYPE				
(A)	TYPE 2 POST	5'	—	—	—	1 x R10-25	0	○	
(B)	TYPE 15TS	20'	—	6'	110W (EOI SL3X M)	2 x W11-2 1 x W16-7P-L 1 x W16-7P-R 1 x R10-25	2	○	
(C)	TYPE 15TS	20'	—	6'	110W (EOI SL3X M)	2 x W11-2 1 x W16-7P-L 1 x W16-7P-R 1 x R10-25	2	○	
(D)	TYPE 15TS	20'	—	6'	110W (EOI SL3X M)	2 x W11-2 1 x W16-7P-L 1 x W16-7P-R 1 x R10-25	2	○	RRFB CONTROLLER ENCLOSURE
(E)	18-3-100	17'	30'	—	—	2 x W11-2	2	—	MAST ARM RRFBs TO BE INSTALLED ON MOUNTING POLE AT 6' FROM END OF MAST ARM
(F)	TYPE 15TS	20'	—	6'	110W (EOI SL3X M)	2 x W11-2 1 x W16-7P-L 1 x W16-7P-R R10-25	2	○	RRFB CONTROLLER ENCLOSURE
(G)	TYPE 15TS	20'	—	6'	110W (EOI SL3X M)	2 x W11-2	2	—	

NOTE: REFER TO 2024 CAL TRANS STANDARD PLAN PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.

- ALL PEDESTRIAN SIGNALS SHALL BE LED WITH A COUNTDOWN TIMER.
- "*" INDICATES POST TRIMMED 3" ABOVE APS UNIT WITH BUTTON 42" ABOVE LANDING AREA.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER POLE SCHEDULE.
- POTHOLING IS REQUIRED TO BE PERFORMED BY THE CONTRACTOR PRIOR TO REQUESTING ELECTRICAL MATERIAL SUBMITTALS TO BE REVIEWED BY THE CITY. FOR UTILITY CONFLICTS.
- DURING THE CONSTRUCTION PHASE, THE CONTRACTORS SHALL CONTACT AND COORDINATE WITH THE CONSULTANT RESPONSIBLE FOR THE PLANSET TO RESOLVE THE CONFLICT.
- APS FOR THE RRFB SHALL BE POLARA INX: MID-BLOCK CROSSING PUSH BUTTON STATION. INX9WNO-Y
- APS SHALL BE NO MORE THAN 10" REACH FROM ACCESSIBLE LANDING.



NOTES

- CONTRACTOR TO CONFIRM STREET LIGHT RRFB PLACEMENT WITH ENGINEER AND CONFIRM VERTICAL CLEARANCE FROM UTILITY CONFLICTS.
- RRFB PLACEMENT TO MAINTAIN 1.5' MINIMUM CLEARANCE FROM FACE OF CURB, 4' PREFERRED CLEARANCE FROM BACK OF WALK, AND 5' MAXIMUM OFFSET FROM CROSSWALK PER ADA REQUIREMENTS.
- STREET LIGHT PLACEMENT TO MAINTAIN 1.5' MINIMUM CLEARANCE FROM FACE OF CURB, 4' PREFERRED CLEARANCE FROM BACK OF WALK, PER ADA REQUIREMENTS.
- CONTRACTOR TO RESTORE MEDIAN AND SIDEWALK DAMAGES AS A RESULT OF ALL FOUNDATION INSTALLATIONS.
- ALL PROPOSED PULL BOXES ARE NO. 6 UNLESS STATED OTHERWISE.
- PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
- RRFB SIGN AND ASSEMBLY TO BE ANGLED TO FACE APPROACHING VEHICLES.
- ALL TRENCHING FOR CONDUITS TO PROVIDE 12" MINIMUM VERTICAL CLEARANCE TO EXISTING 16" GAS TRANSMISSION PIPELINE. COORDINATE WITH POLE TRANSMISSION GROUP PRIOR TO CONSTRUCTION.
- PROPOSED FOUNDATIONS SHALL BE 5' MINIMUM HORIZONTAL CLEARANCE FROM THE EXISTING 16" GAS TRANSMISSION PIPELINE. REDUCED HORIZONTAL CLEARANCE MAY BE ALLOWED AT THE DISCRETION OF THE POLE TRANSMISSION PIPELINE REPRESENTATIVE.
- CONFIRM LOCATION OF ALL EXISTING UTILITIES IN PROXIMITY TO PROPOSED FOUNDATIONS PRIOR TO CONSTRUCTION.

LEGEND

- CARMANAH SC315-G RECTANGULAR RAPID FLASHING BEACON ASSEMBLY. SEE DETAIL 'A' OR 'B'. ON SHEET DT-01.
- CITY STANDARD SERVICE PEDESTAL
- PROPOSED 34W LED ORNAMENTAL 'ACORN' STREET LIGHT, PER APPROVED CITY DETAILS AND SPECIAL PROVISIONS
- EXISTING 34W LED ORNAMENTAL 'ACORN' STREET LIGHT
- PROPOSED 110W LED MAST ARM STREET LIGHT, PER APPROVED CITY DETAILS AND SPECIAL PROVISIONS
- EXISTING 110W MAST ARM STREET LIGHT
- PROPOSED NO. 6 PULL BOX
- EXISTING PULL BOX
- PROPOSED CONDUIT
- EXISTING CONDUIT

SMUD SERVICE INFO

SERVICE: #2797
SMUD S/N: #32310843
SMUD DESIGNER: MARLON LOPEZ
PHONE NUMBER: 916-732-7215
EMAIL: MARLON.LOPEZ@SMUD.ORG

ELECTRICAL PLANSET CONSULTANT
NAME: CURTIS YEE, KIMLEY-HORN & ASSOC.
PHONE: (916) 858-5800
EMAIL: CURTIS.YEE@KIMLEY-HORN.COM

APPROVED BY:
JOHN MATOBA, P.E. S-18865
RECORD ENGINEER
DEPARTMENT OF PUBLIC WORKS
Mar 19, 2026
DATE

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK

ELEV. 37.865'
DESCRIPTION
HILTI NAIL IN LIGHT BASE AT NORTHWEST
CORNER OF EL CAMINO AND DEL PASO.

FIELD BOOK

1476
SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: CURTIS YEE
DATE: JUNE 2025
DESIGN BY: CURTIS YEE
R.C.E. C96043 DATE 6/2025
CHECKED BY: ROBERT PADERNA
R.C.E. C73262 DATE 6/2025



KimleyHorn

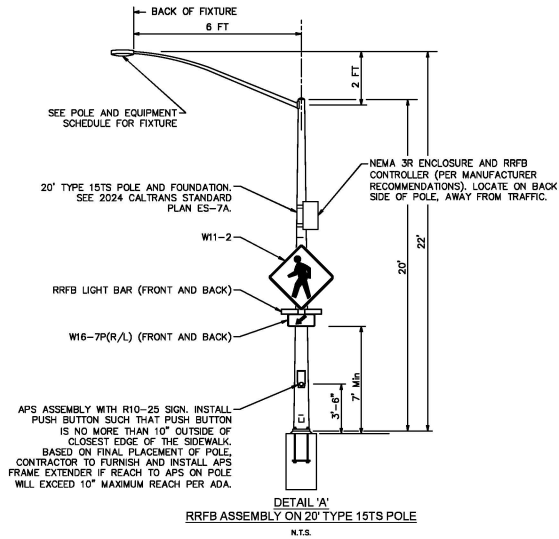
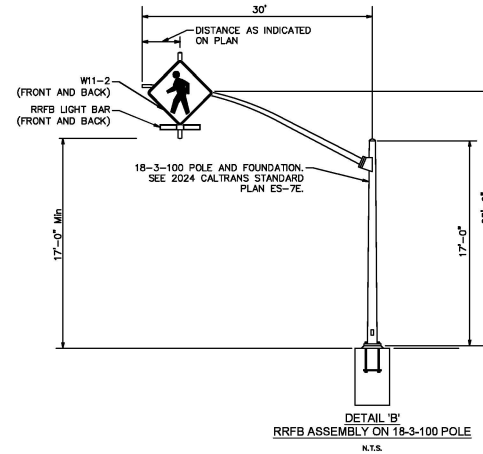
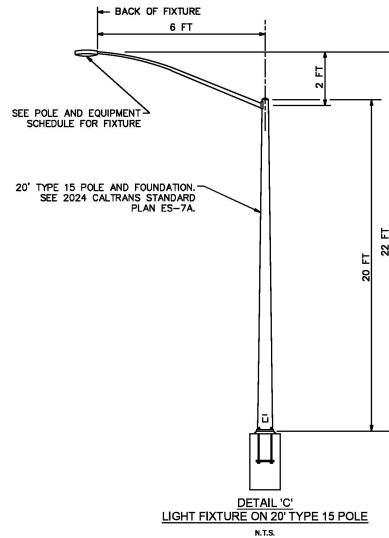
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
505 CHATSWORTH BLVD., STE. 300, SACRAMENTO, CA 95844
PHONE: 916-858-5800
WWW.KIMLEY-HORN.COM

IMPROVEMENT PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
RRFB & STREET LIGHTING

DWG. NO. FB-01
SHEET 14 OF 20
HSIP-5002-212
T1-5205600
PN-097186043

PLOT STAMP:

CAD FILE: K:\SAC_DRAW\097186043 - HSIP Lampasas - DC\08 CADD\HardReeta\STREET LIGHTING AND RRFB.dwg 2/18/2026 11:54 AM



APPROVED BY:  Mar 18, 2026
JOHN MATOBA, P.E. S-18605
SENIOR ENGINEER
DEPARTMENT OF PUBLIC WORKS

REVISIONS				BENCH MARK	ELEV.	FIELD BOOK
NO.	DESCRIPTION	DATE	BY			
				DESCRIPTION		
				HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.	37.865'	1476

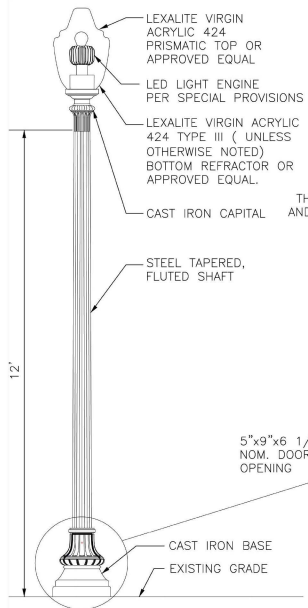
CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS



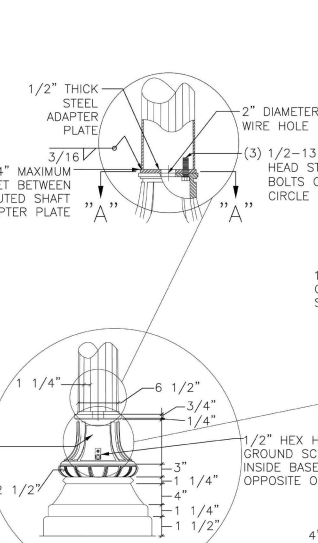
Kimley-Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
555 CHYLOS HALL, STE 300, SACRAMENTO, CA 95814
PHONE: 916-486-2800
WWW.KIMLEY-HORN.COM

IMPROVEMENT PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
RRFB & STREET LIGHTING DETAILS

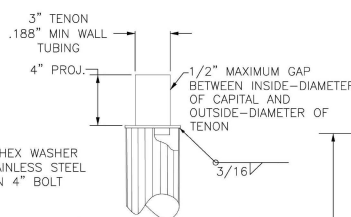
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T14205500	DT-01
PN 097186043	SHEET
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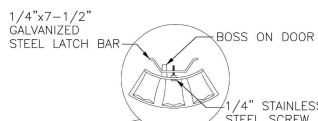
STYLE 1
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**FRONT VIEW
HANDHOLE COVER**
NO SCALE



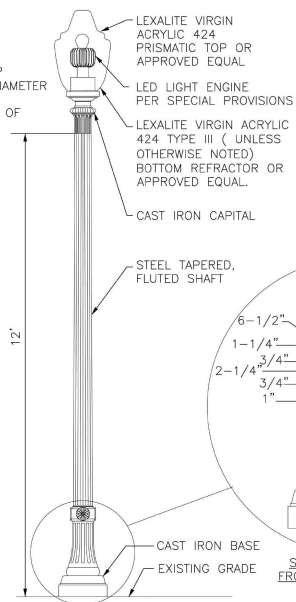
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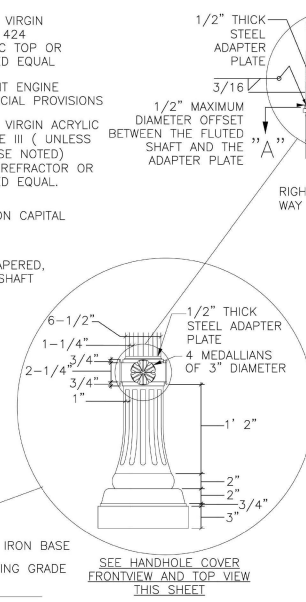
**TOP VIEW
HANDHOLE COVER
& LATCH BAR**
NO SCALE



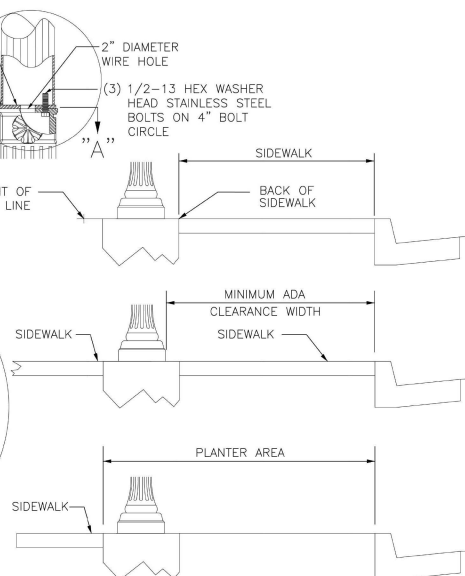
**STEEL ADAPTER
PLATE
VIEW "A-A"**
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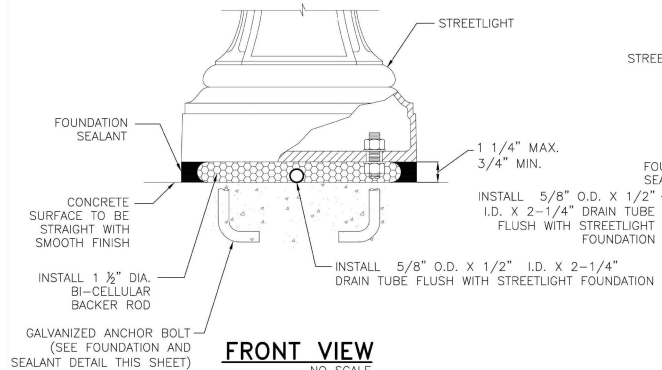
STYLE 2
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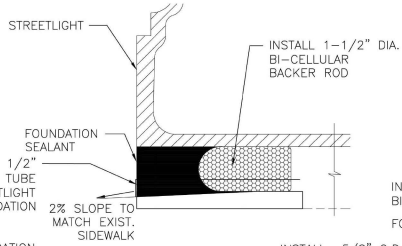
**SEE HANDHOLE COVER
FRONTVIEW AND TOP VIEW
THIS SHEET**



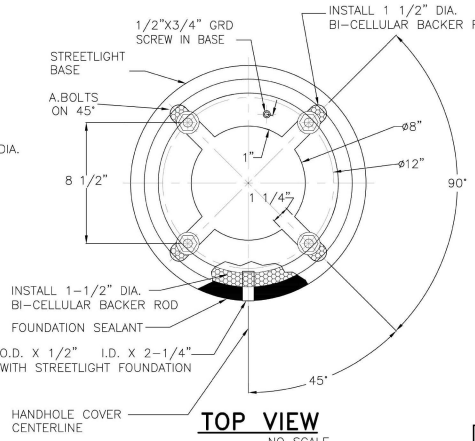
STREETLIGHT LOCATIONS
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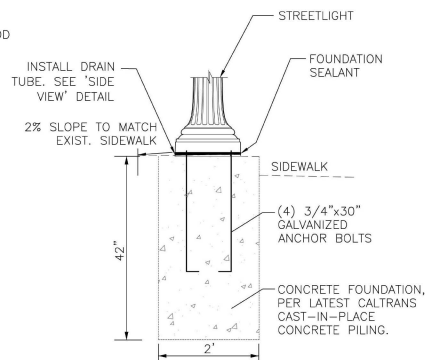
FRONT VIEW
NO SCALE



SIDE VIEW
NO SCALE



TOP VIEW
NO SCALE



**FOUNDATION AND
SEALANT DETAIL**
NO SCALE

APPROVED BY: JOHN MATOBA, SENIOR ELECTRICAL ENGINEER E-16605 08/01/2023 P.E. DATE

REVISIONS				BENCH MARK	ELEV.	FIELD BOOK
NO.	DESCRIPTION	DATE	BY			

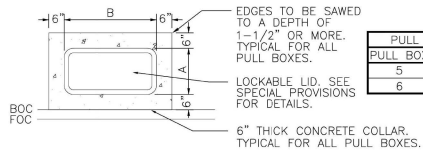
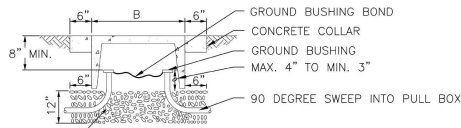
CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS			
DRAWN BY: _____ TECHNICIAN		DESIGN BY: J. MATOBA	CHECKED BY: J. MATOBA
HORIZ. _____ DATE _____		R.C.E. E-16605 DATE _____	R.C.E. E-16605 DATE 06/15/24
VERT. _____			

PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
STANDARD DETAILS FOR ORNAMENTAL STREETLIGHTS

PN: 097186043	DWG. NO.
	DT-02
	SHEET 16 OF 20

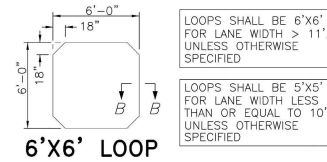
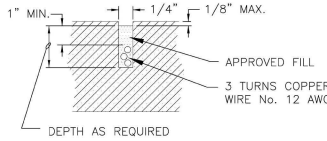
LEGEND

EXISTING	PROPOSED	
		EMERGENCY VEHICLE DETECTOR (EV)
		TRAFFIC SIGNAL FACE WITH BACK PLATE
		TRAFFIC SIGNAL FACE WITH 12" ARROW SECTIONS
		TYPE 1 STANDARD AND ATTACHED TRAFFIC SIGNAL FACES
		STANDARD WITH SIGNAL MAST ARM ONLY AND ATTACHED TRAFFIC SIGNAL FACES
		STANDARD WITH SIGNAL AND LUMINAIRE MAST ARMS AND ATTACHED TRAFFIC SIGNAL FACES AND LUMINAIRE
		INDUCTIVE LOOP DETECTOR, WITH DETECTOR HANDHOLE AND LOCATION OF SAWCUTS
		VIDEO DETECTION ZONE
		ELECTROLIER, TYPE 15 STANDARD WITH MAST ARM WITH CIRCUIT No. INDICATED.
		PEDESTRIAN SIGNAL FACE, 2 SECTIONS ELECTROLIER, POST TOP WITH CIRCUIT No. INDICATED. (INTERNATIONAL SYMBOL)
		CONTROLLER CABINET
		SERVICE PEDESTAL
		CONCRETE PULL BOX No. 5 MINIMUM
		PEDESTRIAN PUSH BUTTON
		FIRE ALARM BOX
		TRAFFIC SIGNAL CONDUIT
		OVERHEAD CONDUCTOR
		PEDESTRIAN PUSH BUTTON POST
		S.M.U.D. SERVICE BOX
		POWER POLE
		VIDEO DETECTION CAMERA
		CCTV

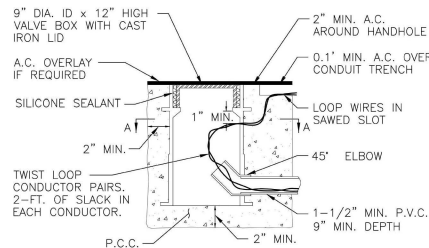


INSTALL PULL BOX ON TOP OF CRUSHED ROCK FOUNDATION. ADJUST PULL BOX TO GRADE. THE CRUSHED ROCK FOUNDATION SHALL HAVE A MINIMUM OF 12" IN DEPTH AND CONTINUE TO EXTEND A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE PULL BOX. COMPACT CRUSHED ROCK WHILE MAINTAINING INTEGRITY OF CONDUIT. CONDUIT AND PULL BOX SHALL NOT BE DAMAGED NOR CRACKED.

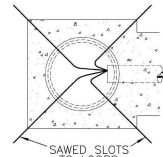
CONCRETE PULL BOX



SECTION B-B LOOP SAW CUTTING DETAIL



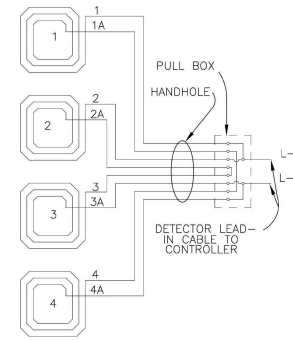
TYPE 'B' DETECTOR



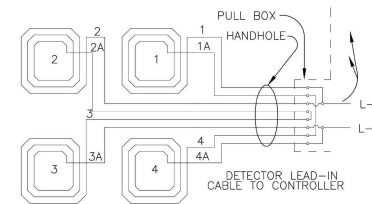
SECTION A-A DETECTOR HANDHOLE

TYPE 'B' DETECTOR HANDHOLE INSTALLATION REQUIREMENTS:

1. OUTLINE OF TRENCH SHALL BE SAW CUT TO A MINIMUM DEPTH OF 3" EXCEPT WHERE AC OVERLAY IS TO BE PLACED.
2. THE PRECAST VALVE BOX WITH CAST IRON LID SHALL BE FABRICATED OF CALCIUM CARBONATE AND POLYESTER RESINS WITH FIBERGLASS REINFORCING AND DESIGNED FOR HEAVY TRAFFIC LOADS.
3. CAST IRON LID SHALL BE MARKED "DETECTOR" AND SHALL BE SECURED IN PLACE BY APPLYING WATERPROOF SILICONE SEALANT. VALVE BOX SHALL BE CENTERED ON LANE LINE, UNLESS OTHERWISE SHOWN ON THE PLANS.
4. THE EXCAVATION AROUND THE HANDHOLE SHALL BE BACKFILLED WITH P.C.C. EXCEPT THE TOP 2" IN AC SURFACED ROADWAYS SHALL BE BACKFILLED WITH AC.
5. THE HANDHOLE SHALL BE PROTECTED WITH COLD PATCH OR OTHER SUITABLE PROTECTION UNTIL PERMANENT AC BACKFILL IS PLACED.



FOUR LOOPS IN TURN LANE



FOUR LOOPS IN THRU LANES

LOOP WINDING PATTERNS

GENERAL NOTES

1. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH: CITY OF SACRAMENTO LATEST CITY STANDARDS SPECIFICATIONS, THE LATEST CAL TRANS STANDARD PLANS, AND THE LATEST CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL MATERIAL TO BE REMOVED AND SALVAGED, SHALL BE DELIVERED TO THE CITY CORPORATE CENTER WITHOUT DAMAGE. COORDINATE WITH CITY ENGINEER.
3. ALL TERMINAL COMPARTMENTS LOCATED ON STANDARDS SHALL BE MOUNTED ON THE SIDE FARTHEST FROM VEHICULAR TRAFFIC. UNLESS OTHERWISE SPECIFIED, OR DIRECTED BY THE ENGINEER.
4. PULL BOXES SHALL BE PLACED IN SIDEWALK AREAS AND SHALL NOT BE PLACED IN DRIVEWAYS, IN VEHICULAR TRAFFIC LANES, OR IN SIDEWALK HANDICAPPED RAMP AREAS.
5. CONDUCTORS BETWEEN BASE OF ELECTROLIER AND LUMINAIRE SHALL BE No. 10 THW MINIMUM.
6. THREE FEET OF SLACK SHALL BE PROVIDED IN EACH PULL BOX FOR EACH CONDUCTOR.
7. EXACT LOCATIONS OF ALL STANDARDS, PEDESTALS AND CABINETS WILL BE DETERMINED BY THE ENGINEER PRIOR TO INSTALLATION, AND SHALL BE AT LEAST 3 FEET FROM FACE OF CURB.
8. ALL TRAFFIC SIGNAL HEADS SHALL HAVE A BACK PLATE WITH 2" YELLOW RETROREFLECTIVE BORDER.
9. AT ALL JUNCTIONS SUCH AS PULL BOXES, ELECTROLIER BASES, AND PEDESTALS WHERE PVC CONDUITS ARE INSTALLED, ALL RIGID GALVANIZED CONDUITS AT THESE LOCATIONS SHALL BE PROVIDED WITH GROUNDING BUSHINGS AND CONNECTED TO THE GROUNDING CONDUCTORS.
10. ALL LUMINAIRES SHALL BE SUPPLIED WITHOUT PHOTO CELL RECEPTACLES UNLESS OTHERWISE SPECIFIED.
11. PULL ROPES USED TO PULL CONDUCTORS IN CONDUIT SHALL BE A MINIMUM OF 1/4" IN DIAMETER.
12. SEE SPECIAL PROVISIONS FOR LOOP CONDUCTOR AND LEAD-IN SPECIFICATIONS.
13. LOOP DIMENSIONS SHALL BE 6' x 6' SQUARES UNLESS OTHERWISE SHOWN ON THE PLANS.

APPROVED BY: JOHN MATOBA, SENIOR ELECTRICAL ENGINEER E-16605 08/01/2023
P.E. DATE

NO.	REVISIONS DESCRIPTION	DATE	BY	BENCH MARK DESCRIPTION	ELEV.	FIELD BOOK

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

SCALE	DRAWN BY: TECHNICIAN	DESIGN BY: J. MATOBA	CHECKED BY: J. MATOBA
HORIZ. _____	DATE _____	R.C.E. E-16605 DATE _____	R.C.E. E-16605 DATE 06/15/24
VERT. _____			

PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
STANDARD DETAILS FOR TRAFFIC SIGNAL No. 1

DWG. NO.
DT-03
SHEET
17
OF
20
PN: 097186043



21 CONTRACTOR SHALL REMOVE AND INSTALL THE ECONOLITE VISION VIDEO DETECTION SYSTEM. 1) THE VISION CAMERA WITH 28" RISER POLE AND MOUNTING BRACKETS FOR MAST ARM INSTALLATION FOR EACH DETECTION OF THE INTERSECTION. 2) ECONOLITE 3-WIRE CABLE INSTALLATION IN CONDUITS AND PULL BOXES. 3) VISION COMM MANAGER, SOLIC CABLE, CATE CABLE, RISE CABLE, RISE CONNECTOR FOR INSTALLATION IN THE TRASH SIGNAL CABINET AND A 3 YEAR SYSTEM WARRANTY FROM DATE OF TRAFFIC SIGNAL TURN-ON ACCEPTANCE. AN ECONOLITE REPRESENTATIVE SHALL BE ONSITE TO CONFIGURE THE VIDEO DETECTION SYSTEM FOR EXISTING EQUIPMENT WITH VIDEO DETECTOR CABLE EXTENSION. SOLIC INSTALL ALL NEW WIRING FROM CAMERA TO CONTROLLER CABINET, INCLUDING POWER AND COMMUNICATION.

22 REMOVE AND SALVAGE EXISTING VIDEO DETECTION CAMERA ON TRAFFIC SIGNAL MAST ARM. REMOVE EXISTING DETECTION CABLE FROM CAMERA TO THE CONTROLLER CABINET. CONTRACTOR SHALL REMOVE AND INSTALL THE ECONOLITE VISION VIDEO DETECTION SYSTEM. 1) THE VISION CAMERA WITH 28" RISER POLE AND MOUNTING BRACKETS FOR MAST ARM INSTALLATION FOR EACH DETECTION OF THE INTERSECTION. 2) ECONOLITE 3-WIRE CABLE INSTALLATION IN CONDUITS AND PULL BOXES. 3) VISION COMM MANAGER, SOLIC CABLE, CATE CABLE, RISE CABLE, RISE CONNECTOR FOR INSTALLATION IN THE TRASH SIGNAL CABINET AND A 3 YEAR SYSTEM WARRANTY FROM DATE OF TRAFFIC SIGNAL TURN-ON ACCEPTANCE. AN ECONOLITE REPRESENTATIVE SHALL BE ONSITE TO CONFIGURE THE VIDEO DETECTION SYSTEM FOR EXISTING EQUIPMENT WITH VIDEO DETECTOR CABLE EXTENSION. SOLIC INSTALL ALL NEW WIRING FROM CAMERA TO CONTROLLER CABINET, INCLUDING POWER AND COMMUNICATION.

23 FURNISH AND INSTALL CONTROLLER CABINET (TYPE R TS 2 TYPE 1) AND CONTROLLER (TS 2 TYPE 2) WITH LATEST VERSION OF "D4" FOURTH DIMENSION TRAFFIC SIGNAL SOFTWARE. INSTALL NEW CABINET ASSEMBLY ON EXISTING FOUNDATION. CONTRACTOR TO PURCHURE EQUIPMENT SHOWN IN THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST AND CONTRACTOR TO FOLLOW CITY OF SACRAMENTO TRAFFIC SIGNALS TURN-IN PROCCES. CONTRACTOR TO MAKE ALL FINAL WIRE CONNECTIONS AND PROVIDE TRAFFIC CONTROL MEASURES. CABINET SHALL BE FURNISHED WITH CISCO I36000 NETWORK SWITCH WITH SFP LINK AND SURGE SUPPRESSOR. CONTRACTOR TO REMOVE AND REINSTALL EXISTING VIDEO DETECTOR PATCH PANEL.

24 REMOVE AND SALVAGE EXISTING CONTROLLER CABINET AND CONTROLLER.

25 FURNISH AND INSTALL VIDEO DETECTION, PER MANUFACTURERS RECOMMENDATION. CONNECT UNIT TO ECONOLITE COMM MANAGER WITH POWER SUPPLY CONTROLLER VIA SOLIC CONNECTION. EQUIPABLE EQUIPMENT WITH VIDEO DETECTOR CABLE EXTENSION.

26 INSTALL ECONOLITE 3-WIRE VIDEO DETECTOR CABLE IN EXISTING 3" CONDUIT.

27 INSTALL ECONOLITE 3-WIRE VIDEO DETECTOR CABLE IN EXISTING 2.5" CONDUIT.

28 INSTALL 1 NEW CATE CABLE IN EXISTING 3" CONDUIT. CATE CABLE SHALL BE BELDEN DATA TUFF MODEL 7927A.

29 INSTALL 2 NEW ECONOLITE 3-WIRE VIDEO DETECTOR CABLE IN EXISTING 3" CONDUIT.

30 INSTALL 4 NEW ECONOLITE 3-WIRE VIDEO DETECTOR CABLE IN EXISTING 3" CONDUIT.

31 COIL 15 FEET OF CATE CABLE AT TOP OF POLE.

<p>♠1</p> <p>NOT USED</p>	<p>♠2</p> <p>← PED →</p> <p>←</p>	<p>♠3</p> <p>↙</p>	<p>♠4</p> <p>↑ PED ↓</p> <p>↓</p>
<p>♠5</p> <p>NOT USED</p>	<p>♠6</p> <p>→</p> <p>← PED →</p>	<p>♠7</p> <p>↘</p>	<p>♠8</p> <p>↑</p> <p>↑ PED ↓</p>

DEL PASO ROAD: 45 MPH
LAMPASAS AVENUE: 30 MPH

WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS

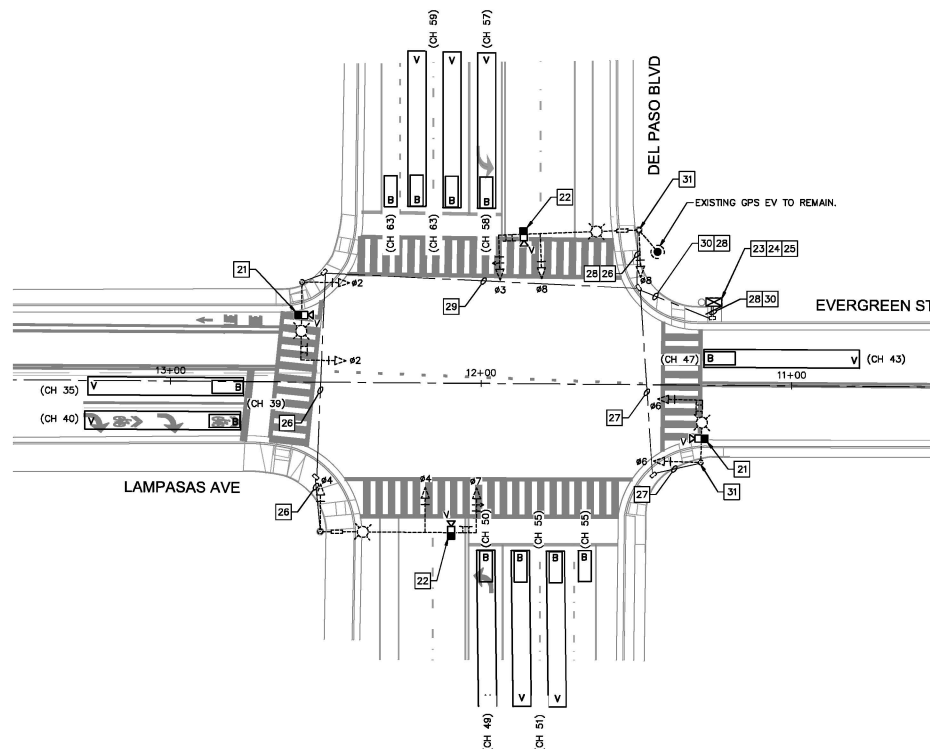
EXISTING CONTROLLER CABINET
PROPOSED CONTROLLER CABINET

EXISTING SIGNAL MAST ARM POLE WITH LUMINAIRE

PROPOSED VIDEO DETECTION CAMERA

PROPOSED VIDEO DETECTION ZONE

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE 2024 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS, CALTRANS STANDARD SPECIFICATIONS, AND THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS AND ALL ADDENDUMS.
2. ALL NEW SIGNAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS SPECIFIED ON THESE PLANS AND SPECIAL PROVISIONS.
3. CONTRACTOR SHALL PROTECT ALL EXISTING CABLES AND CONDUITS INSIDE THE CONTROLLER CABINET AND PULL BOXES WHERE NEW CABLES ARE TO BE INSTALLED.
4. CONTRACTOR SHALL VERIFY WITH ENGINEER FOR CLARIFICATION IF CONFLICT IS DISCOVERED.
5. PRIOR TO PERFORMING ANY CIVIL WORK THE CONTRACTOR SHALL ENSURE A PROPERLY FUNCTIONING VIDEO DETECTION SYSTEM BY INSTALLING THE NEW VIDEO DETECTION CAMERA, CAMERA CABLE, AND VIDEO DETECTION EQUIPMENT INSIDE THE CONTROLLER CABINET, INCLUDING ALL CONNECTIONS AND TESTING OF THE CAMERA SYSTEM.
6. COORDINATE WITH THE CAMERA MANUFACTURER AND ENGINEER FOR LOCATION OF VIDEO DETECTION ZONE. PRIOR TO INSTALLING NEW WIRING, CONTRACTOR IS RESPONSIBLE FOR ASSESSING THE CONDITION OF THE EXISTING CONDUIT. IF THE EXISTING CONDUIT IS NOT AN APPROVED EQUAL, IN THE EVENT EXISTING CONDUITS ARE NOT REUSABLE, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR AN APPROVED EQUAL.
7. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC CONTROL PLANS FOR CITY APPROVAL, DURING CONTROLLER CABINET CUT OVER, TRAFFIC CONTROL PLANS TO INCLUDE CLOSURE OF ONE LANE OF NORTHBOUND DEL PASO BOULEVARD TUESDAY-THURSDAY.
8. NEW VIDEO DETECTION CAMERA SYSTEM SHALL BE INSTALLED AND DETECTING VEHICLES AND BICYCLES FOR EXISTING ROADWAY CONFIGURATION, PRIOR TO START OF CIVIL AND SIGNING/STRIPING CONSTRUCTION WORK.
9. CONTRACTOR SHALL INSTALL 2' YELLOW REFLECTIVE BORDER MARKING, 18" HIGH, 12" WIDE, 12" DEEP, 12" SPACING.



GRAPHIC SCALE IN FEET
0 10 20

[illegible]

BENCH MARK		ELEV.	37.885'
DESCRIPTION			
HILTI NAIL IN LIGHT BASE AT NORTHWEST CORNER OF EL CAMINO AND DEL PASO.			

FIELD BOOK
1476
SCALE
HORIZ. 1":20
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

CURTIS YEE AUGUST 2025	DESIGN BY: CURTIS YEE R.C.E. C96043 DATE 8/2025	CHECKED BY: ROBERT PADERNA R.C.E. C73262 DATE 8/2025
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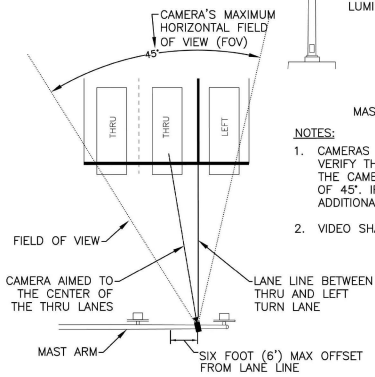
Kimley»»Horn
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555 CAPITOL MALL, STE 300, SACRAMENTO, CA 95814
PHONE: 916-858-5800
WWW.KIMLEY-HORN.COM

IMPROVEMENT PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
SIGNAL MODIFICATION

HSIPL-5002-212	TT15205500	EPN: 097186043	DWG. NO.
			TS-01
			SHEET
			19
			OF
			20

VIDEO DETECTION FIELD OF VIEW AND MOUNTING DETAIL

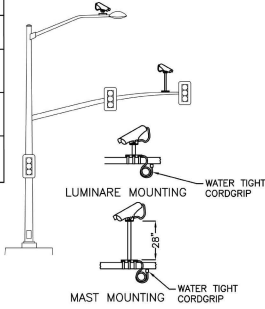
VIDEO DETECTION		
NUMBER OF APPROACH LANES	QTY OF CAMERAS	CAMERA MOUNTING
6 LANES + BIKE LANE OR LESS	1	MAST ARM
GREATER THAN 6 LANES + BIKE LANE	2	LUMINAIRE ARM
SPLIT PHASE	1	LUMINAIRE ARM



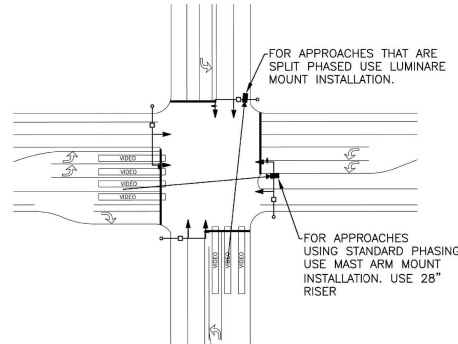
NOTES:

1. CAMERAS FIELD OF VIEW (FOV) SHALL BE CHECKED TO VERIFY THAT THE CAMERA CAN DETECT ALL LANES. THE CAMERA SHALL HAVE A MAXIMUM HORIZONTAL FOV OF 45°. IF ALL LANES DO NOT FIT IN THE FOV THEN ADDITIONAL CAMERAS OR LOOPS WILL BE REQUIRED.
2. VIDEO SHALL BE USED FOR STOPBAR DETECTION ONLY.

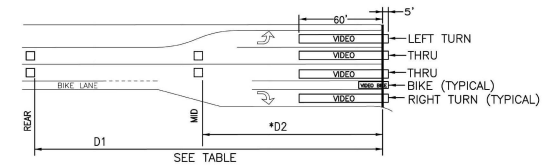
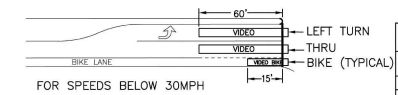
NOTE: DETAIL DEMONSTRATES FOV AND AIMING ONLY. DOES NOT DENOTE THE AMOUNT OF DETECTED LANES.



SINGLE CAMERA DETECTION MOUNTING FOR APPROACHES 6 LANES + BIKE LANE OR LESS



TYPICAL DETECTOR LAYOUT VIDEO & LOOPS



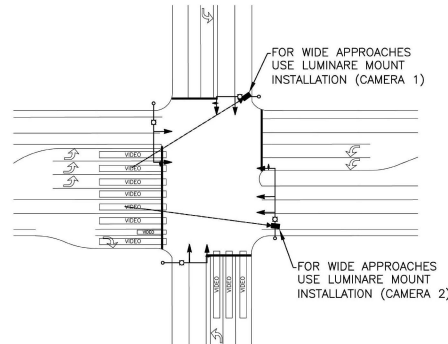
NOTES:

1. NOMINAL LOOP SIZE TO BE 6'x6'.
2. EACH REAR AND MID LOOP SHALL HAVE A ONE DLC.

DESIGN OR 85TH SPEED	LOOP DISTANCE	
	REAR D1	MID D2*
BELOW 30 MPH	N/A	
30 MPH	175'	
35 MPH	200'	
40 MPH	250'	
*45 MPH	300'	200'
*50 MPH	350'	225'
*55 MPH	405'	250'

*MID (D2) LOOP TO BE INSTALLED AT THE DISCRETION OF THE CITY TRAFFIC ENGINEER.

DUAL CAMERA DETECTION MOUNTING FOR APPROACHES GREATER THAN 6 LANES + BIKE LANE



CAD FILE:

REVISIONS				BENCH MARK	ELEV.	FIELD BOOK
NO.	DESCRIPTION	DATE	BY			

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS		
SCALE	DRAWN BY: TECHNICIAN	DESIGN BY: J. MATOBA
HORIZ. _____	DATE _____	R.C.E. E-16605 DATE _____
VERT. _____		CHECKED BY: J. MATOBA
		R.C.E. E-16605 DATE 06/15/24

PLANS FOR
LAMPASAS AVE AT RIO LINDA BLVD HSIP AND
SAFETY IMPROVEMENTS PROJECT
STANDARD DETAILS FOR TRAFFIC SIGNAL No. 2

APPROVED BY: JOHN MATOBA, SENIOR ELECTRICAL ENGINEER E-16605 P.E. 08/01/2023 DATE

PN: 097186043 DWG. NO. TS-02 SHEET 20 OF 20