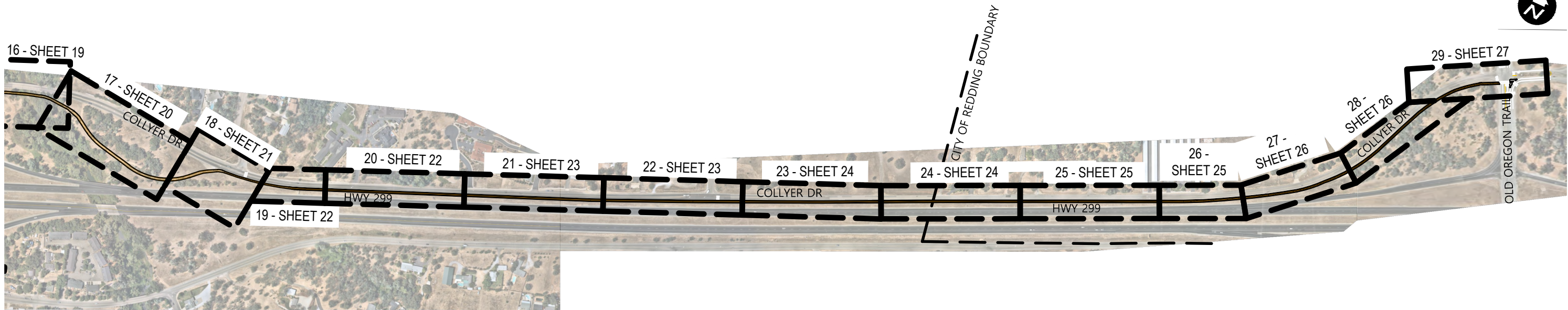
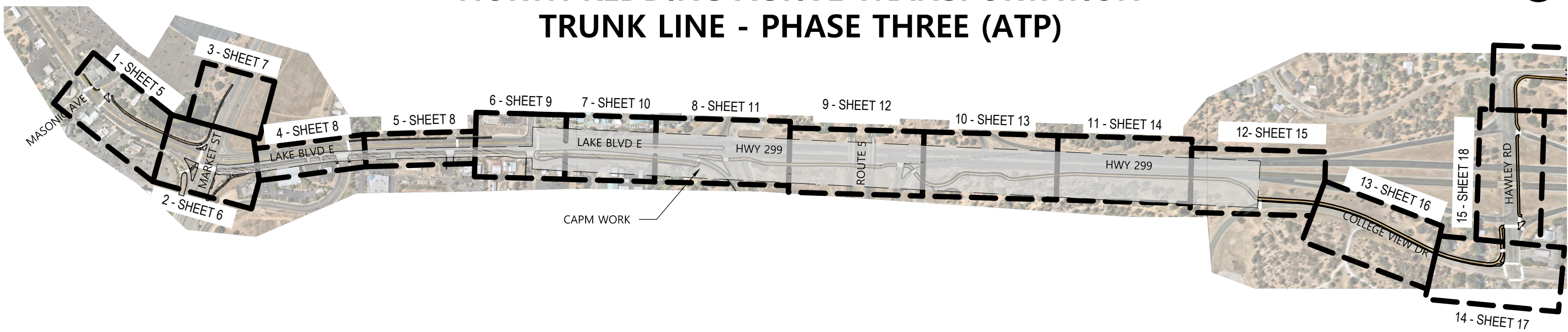
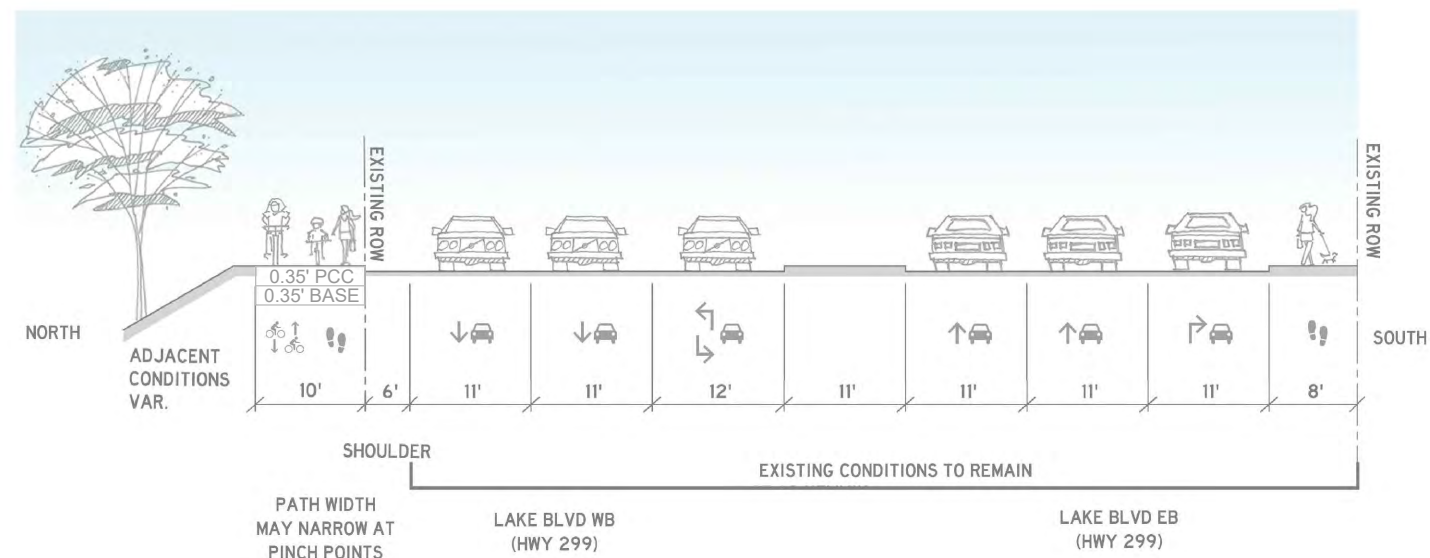


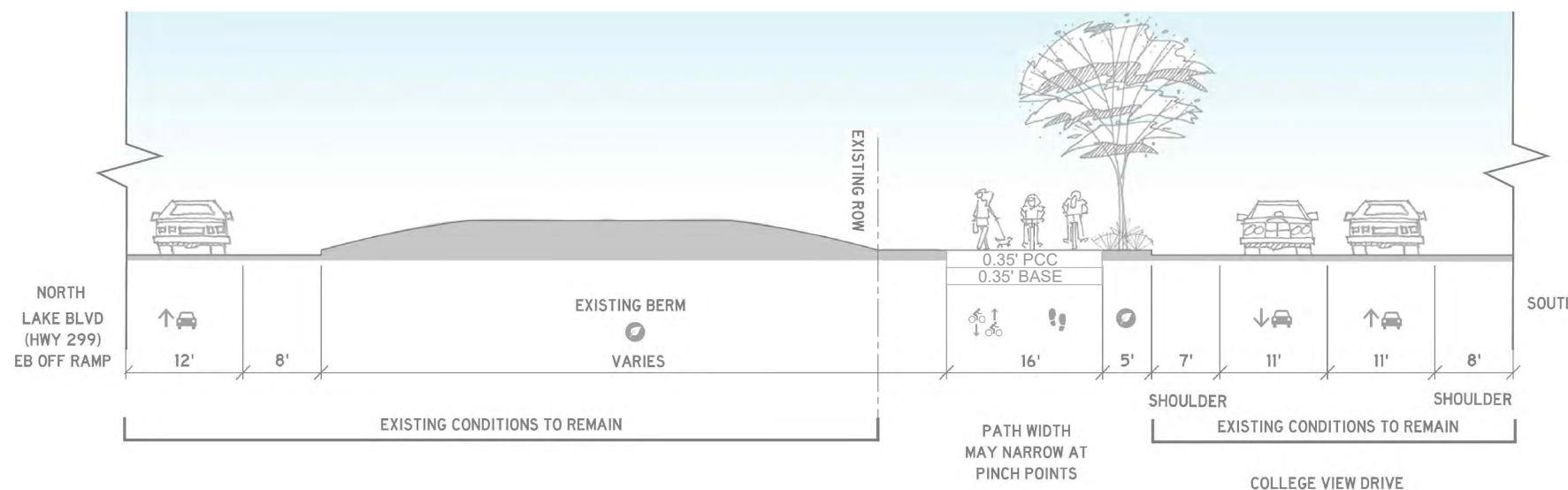
Appendix E

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE THREE (ATP)



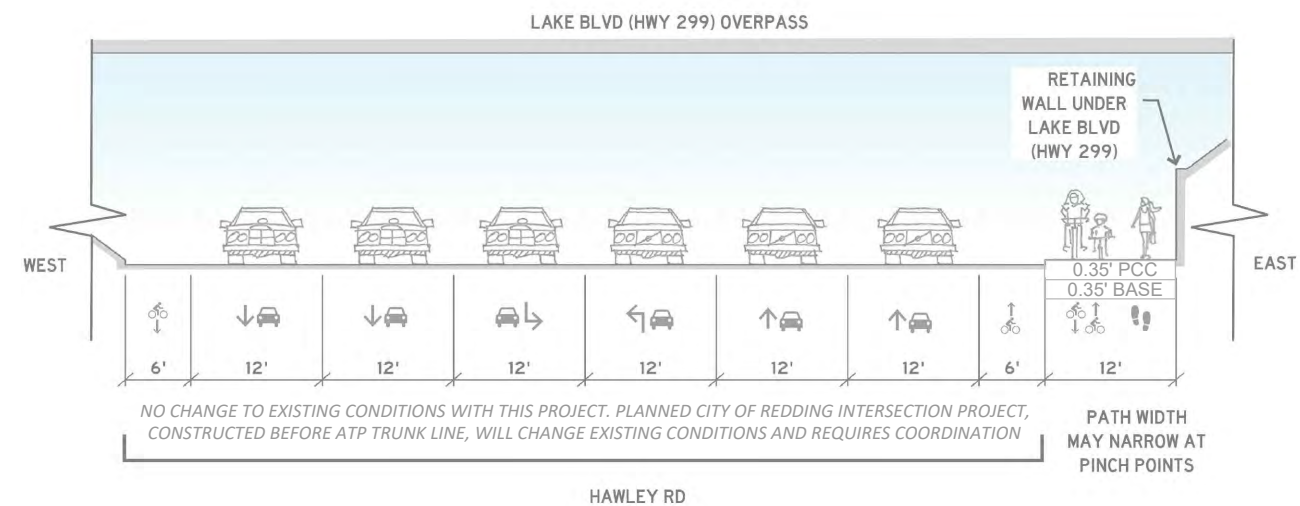


SECTION A:
LAKE BLVD (HWY 299),
TYP. MASONIC AVE - MARKET STREET



NOTE: ENTIRETY OF DESIGN IS WITHIN ROW

SECTION C:
COLLEGE VIEW DR



NOTE: ENTIRETY OF DESIGN IS WITHIN ROW

SECTION D:
HAWLEY RD
UNDER HWY 299 OVERPASS

10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

ABBREVIATIONS:
ROW - RIGHT OF WAY
PCC - PORTLAND CEMENT CONCRETE
HMA - HOT MIX ASPHALT
AB - AGGREGATE BASE

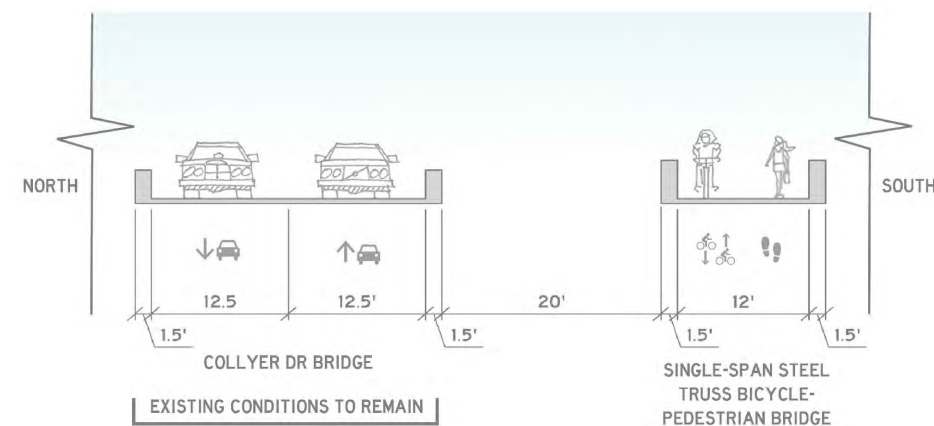


SHEET 2 OF 27

AUGUST 2020

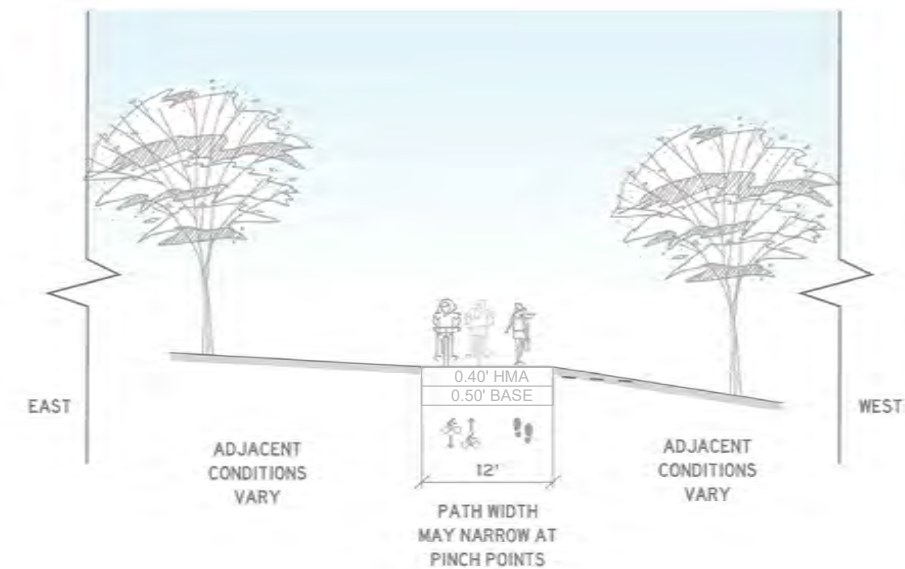
TYPICAL SECTIONS





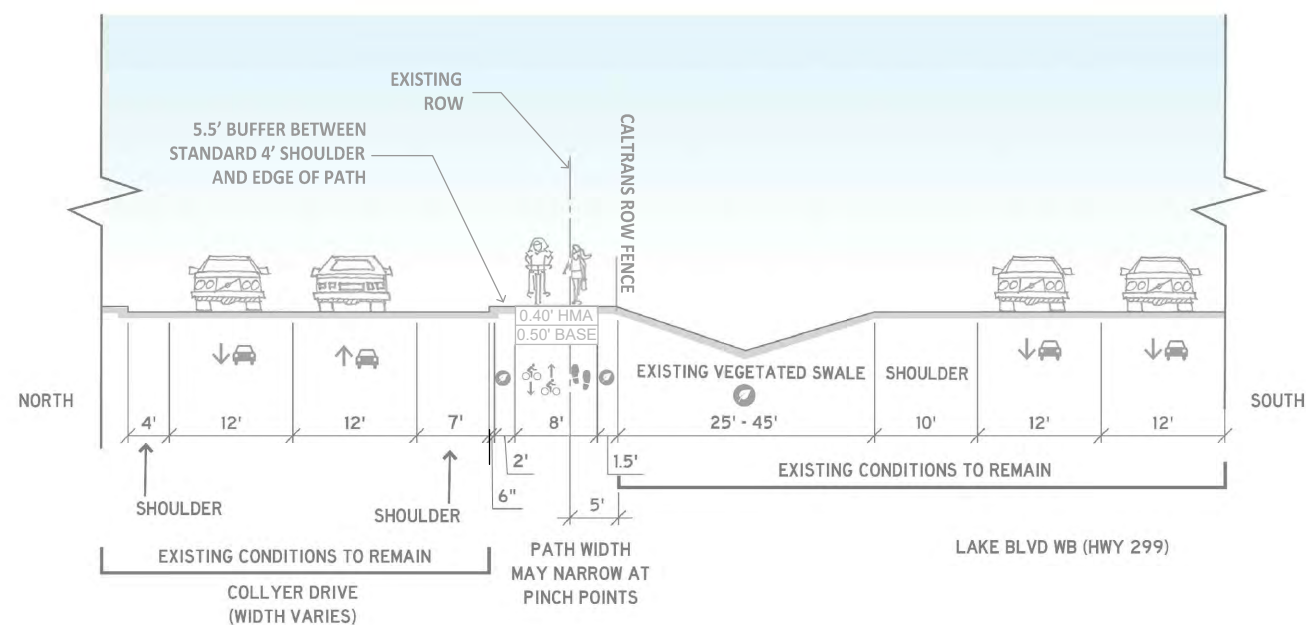
NOTE: ENTIRETY OF DESIGN IS WITHIN CITY ROW

SECTION E:
TYP. COLLYER DR - BRIDGE CROSSING



NOTE: ENTIRETY OF DESIGN IS OUTSIDE OF EXISTING ROW

SECTION F:
SHARED-USE PATH
FLOODPLAIN BETWEEN BRIDGE AND RIDGEWOOD RD



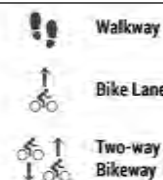
NOTE: ENTIRETY OF DESIGN IS WITHIN STATE AND CITY/COUNTY ROW

SECTION G:
RIDGEWOOD RD TO OLD OREGON TRAIL

10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

ABBREVIATIONS:
ROW - RIGHT OF WAY
PCC - PORTLAND CEMENT CONCRETE
HMA - HOT MIX ASPHALT
AB - AGGREGATE BASE

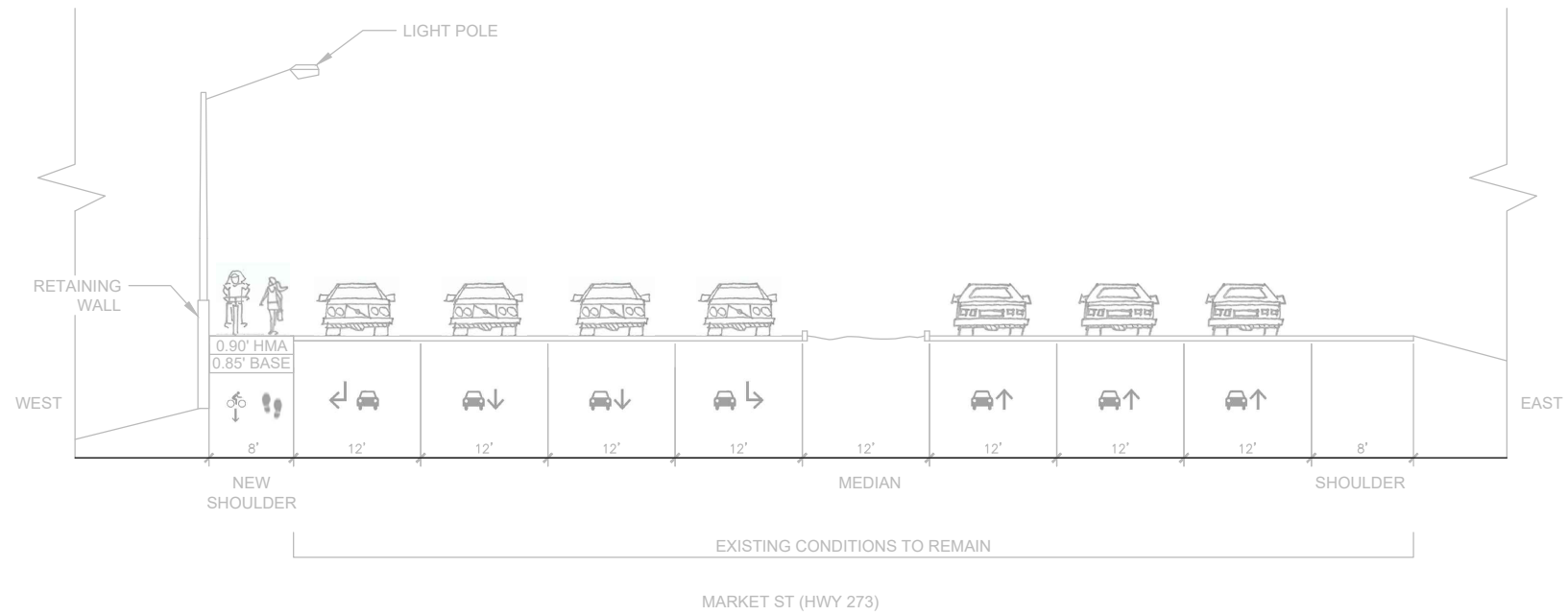


SHEET 3 OF 27

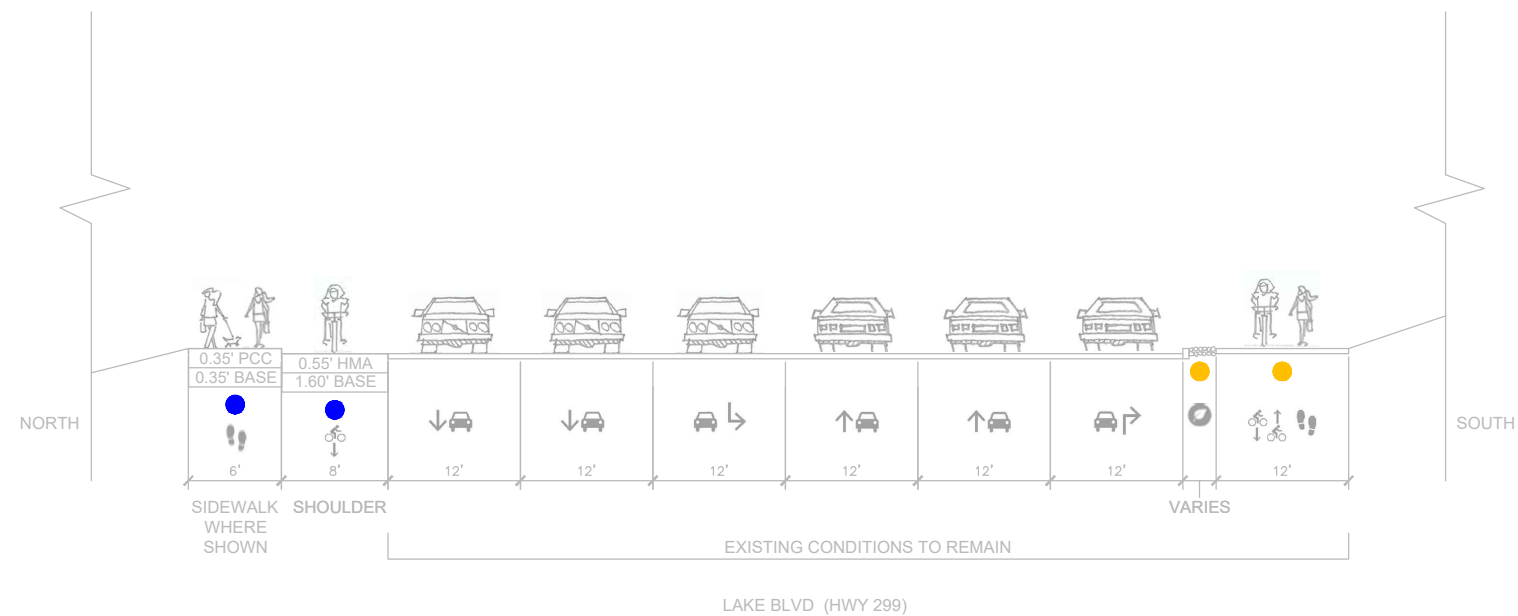
AUGUST 2020

TYPICAL SECTIONS





SECTION H:
MARKET ST (HWY 273)
(BETWEEN LAKE BLVD AND NORTHPOINT DR)

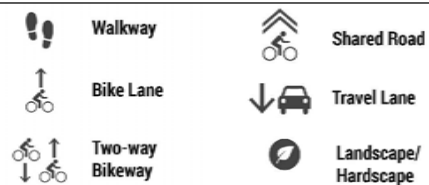


SECTION I:
LAKE BLVD (HWY 299)
BETWEEN HILLTOP DR AND THE BUS STOP BETWEEN
ERICKSON WAY AND N BOULDER DRIVE

10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

ABBREVIATIONS:
ROW - RIGHT OF WAY
PCC - PORTLAND CEMENT CONCRETE
HMA - HOT MIX ASPHALT
AB - AGGREGATE BASE



LEGEND
● 4H050 CAPM IMPROVEMENTS
● 1J660 ATP IMPROVEMENTS

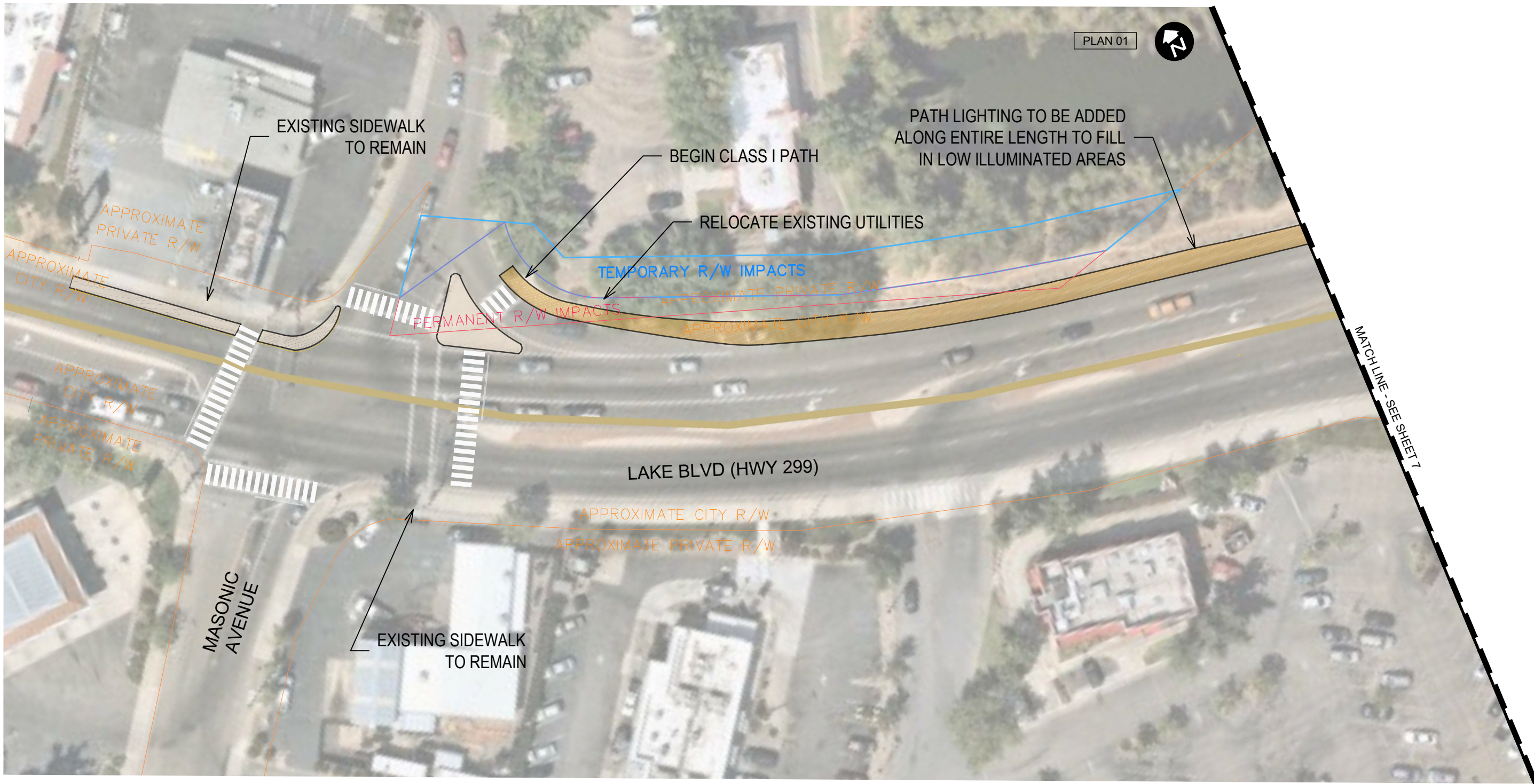


SHEET 4 OF 27

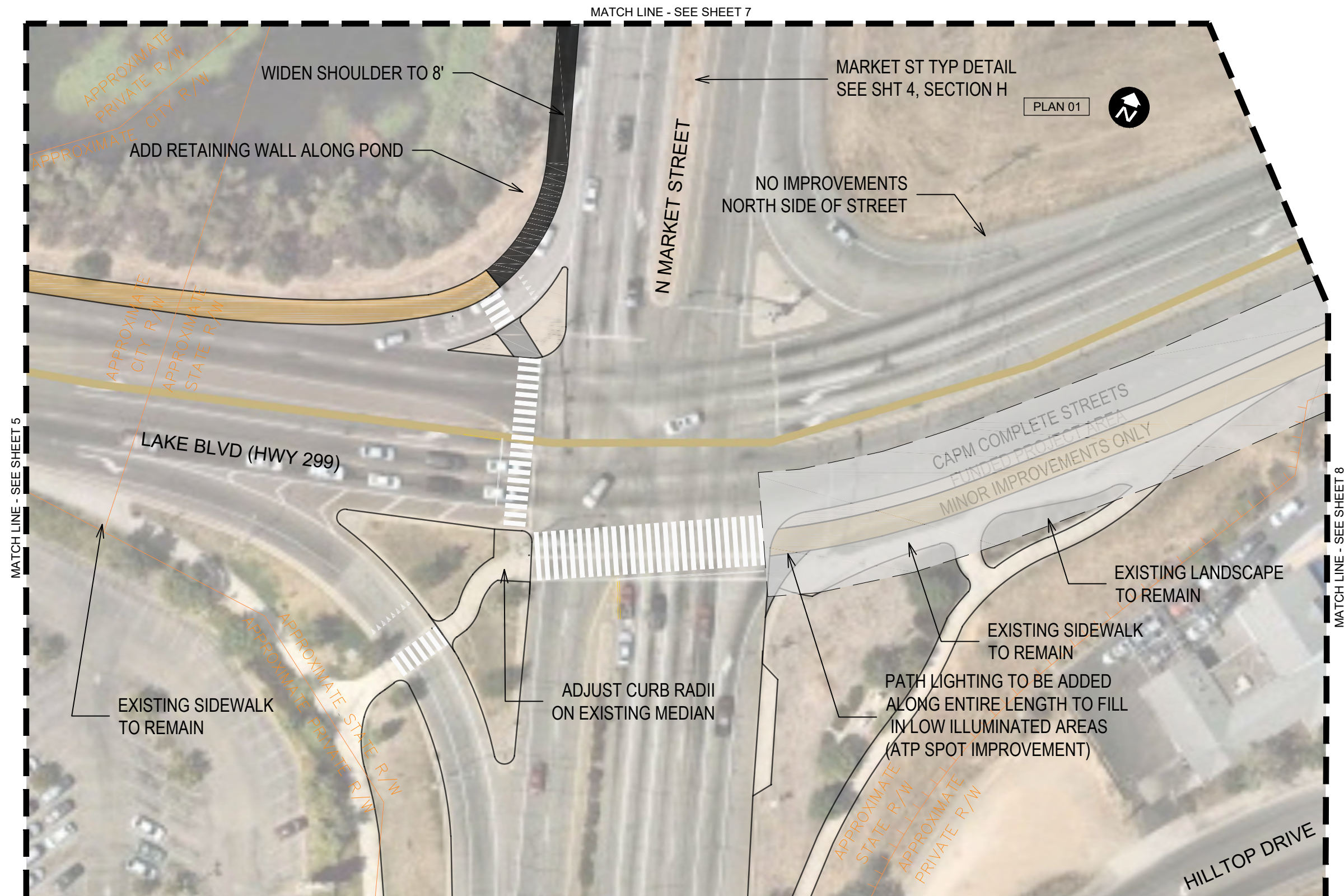
AUGUST 2020

TYPICAL SECTIONS



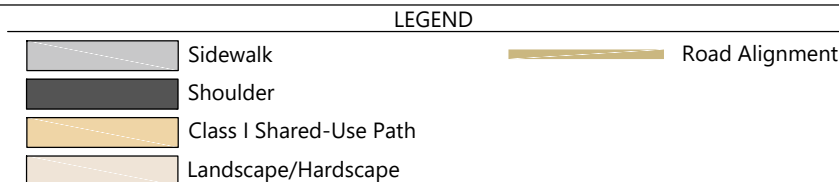
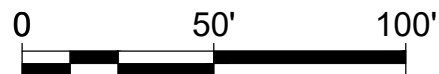


10% CONCEPTUAL DESIGN PLANS



10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 6 OF 27
PLAN

AUGUST 2020

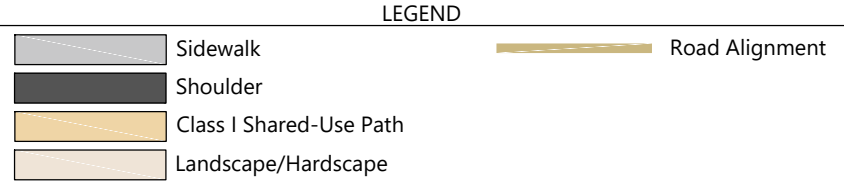




MATCH LINE - SEE SHEET 6

10% CONCEPTUAL DESIGN PLANS

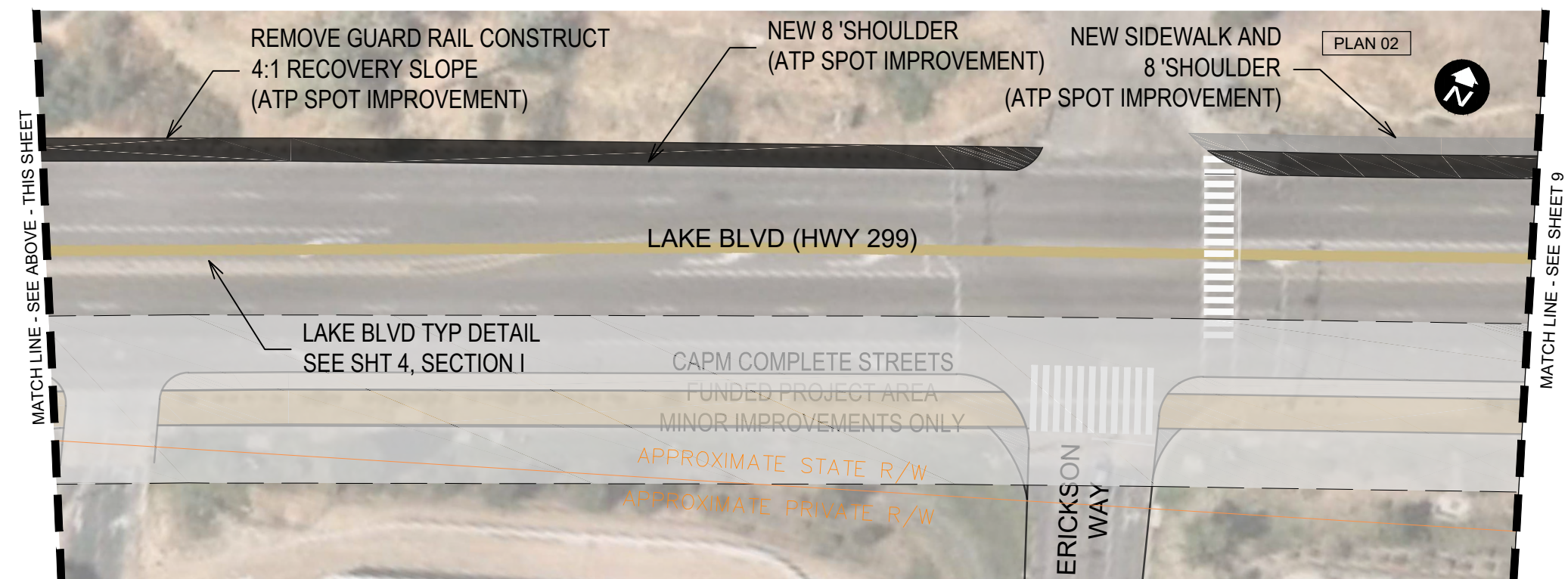
CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 7 OF 27
PLAN

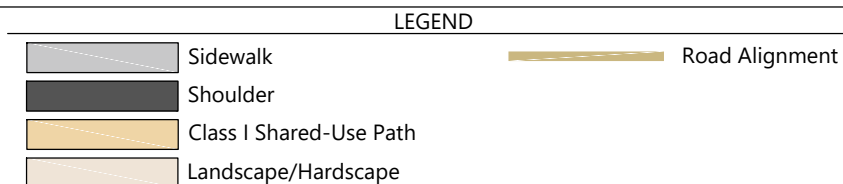
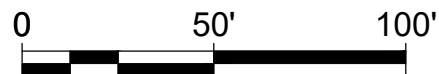
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10% CONCEPTUAL DESIGN PLANS

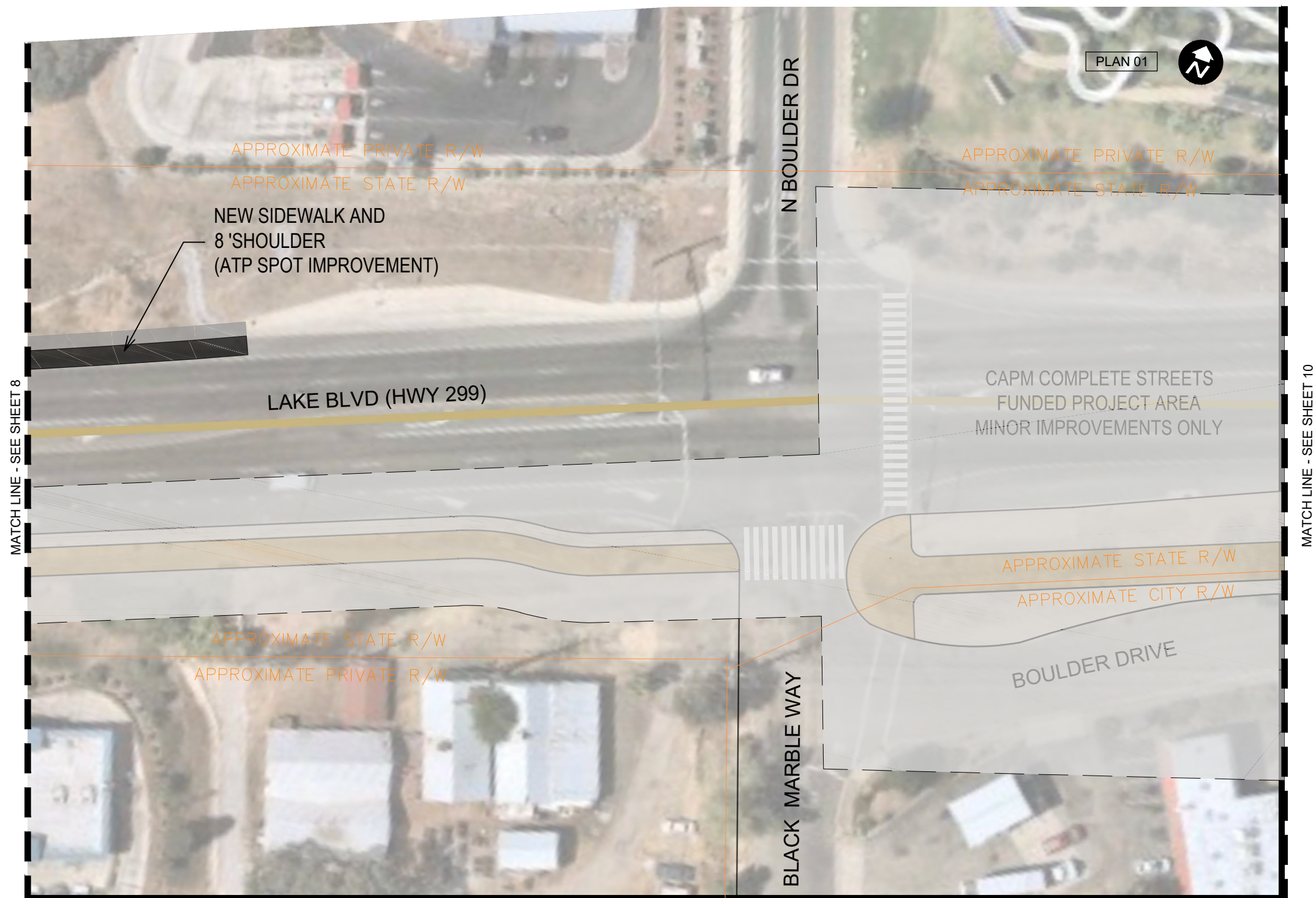
CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 8 OF 27
PLAN

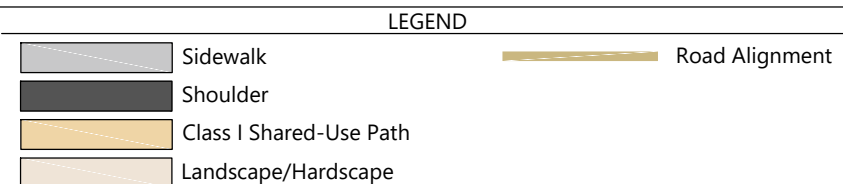
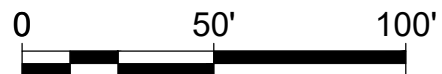
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10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 9 OF 27
PLAN

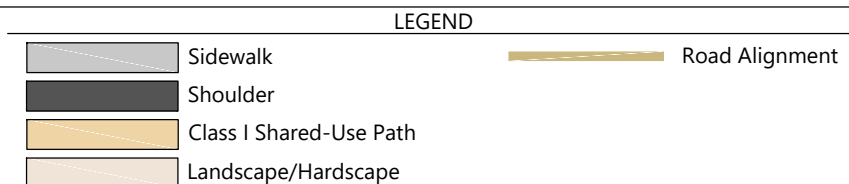
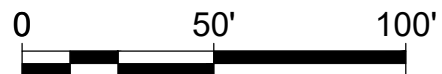
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10% CONCEPTUAL DESIGN PLANS

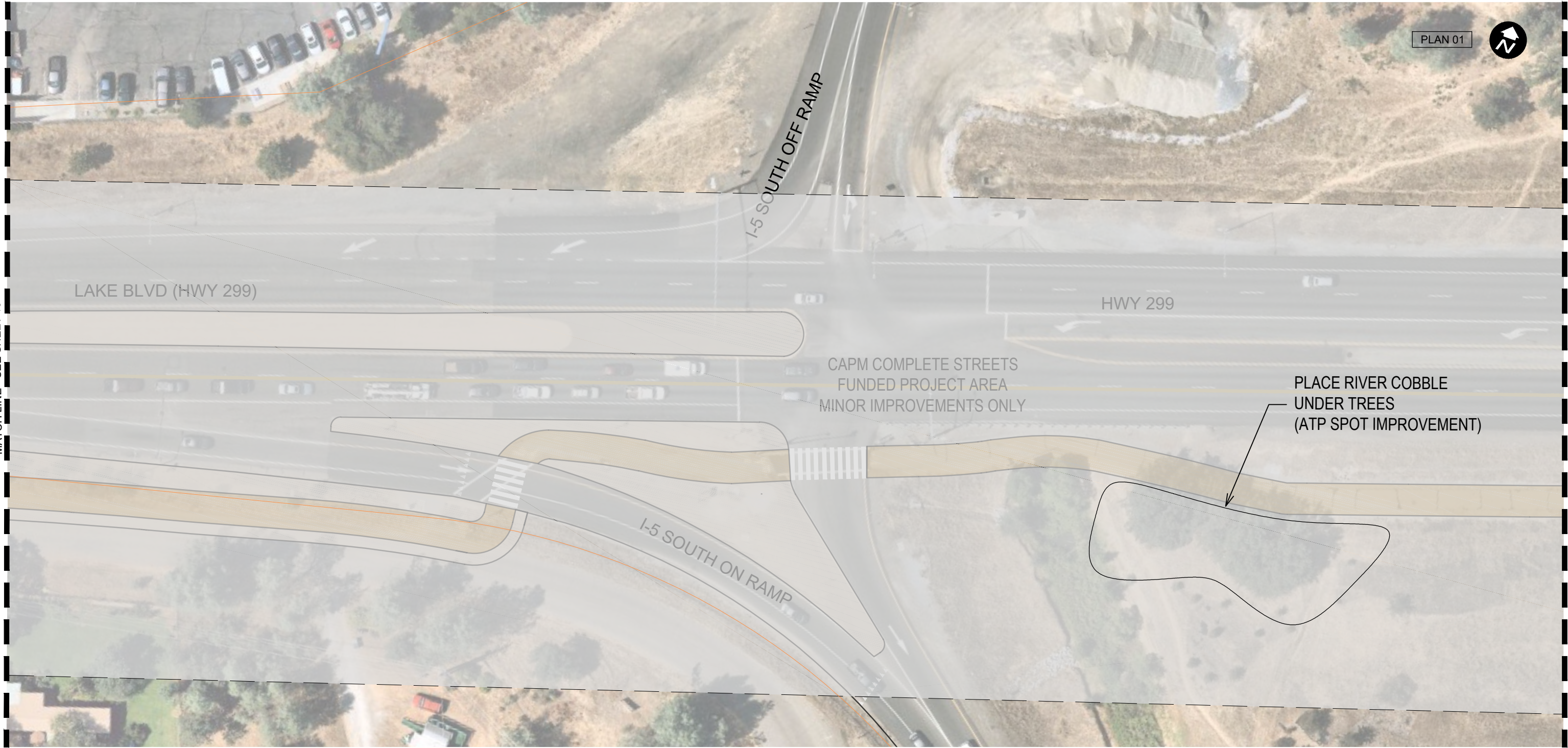
CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 10 OF 27
PLAN

AUGUST 2020





10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

0 50' 100'

LEGEND

	Sidewalk		Road Alignment
	Shoulder		
	Class I Shared-Use Path		
	Landscape/Hardscape		



SHEET 11 OF 27
PLAN



10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

0

50'

100'

LEGEND

Sidewalk

Shoulder

Class I Shared-Use Path

Landscape/Hardscape

Road Alignment



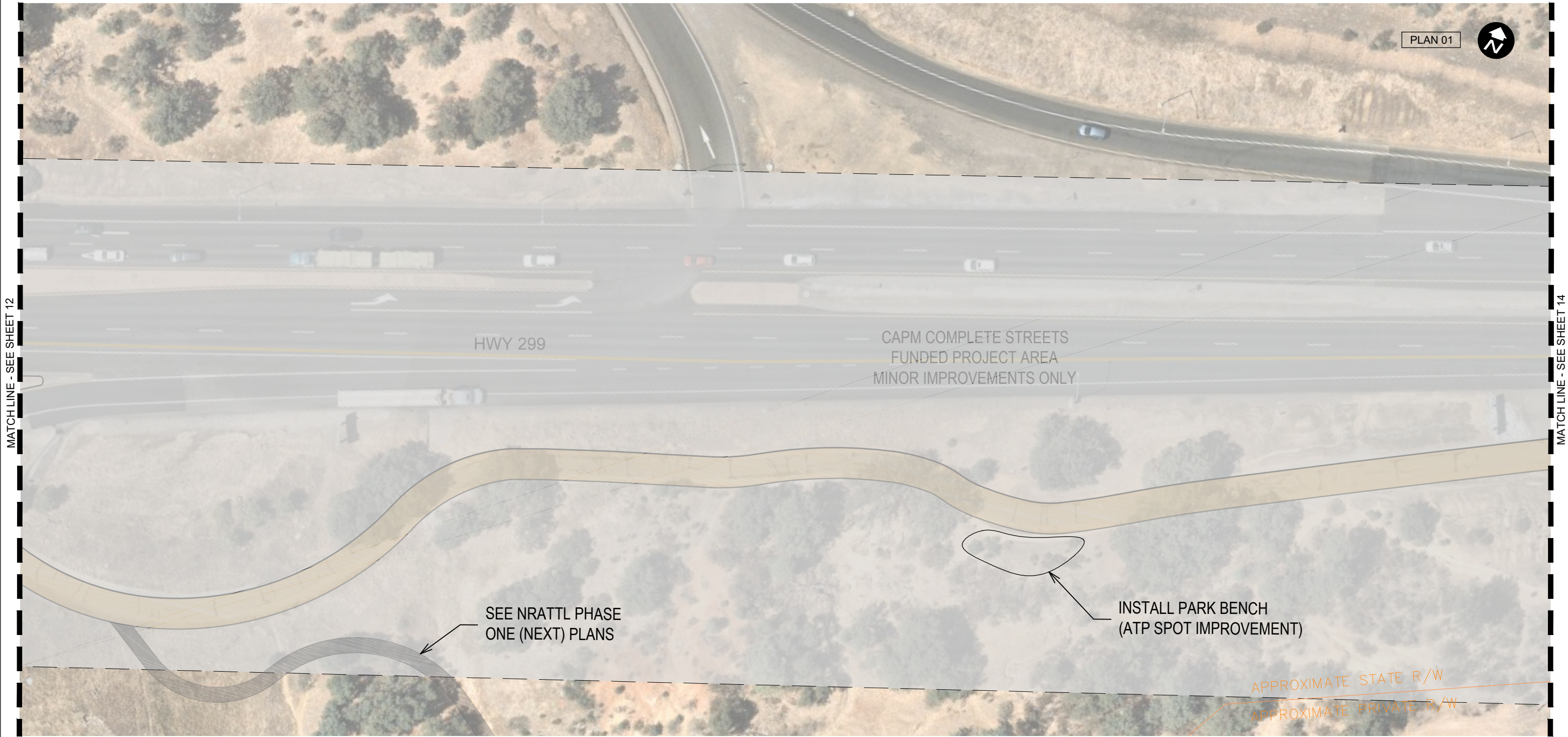


SHEET 12 OF 27
PLAN

AUGUST 2020

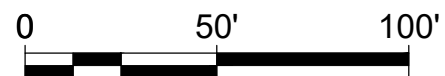


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CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



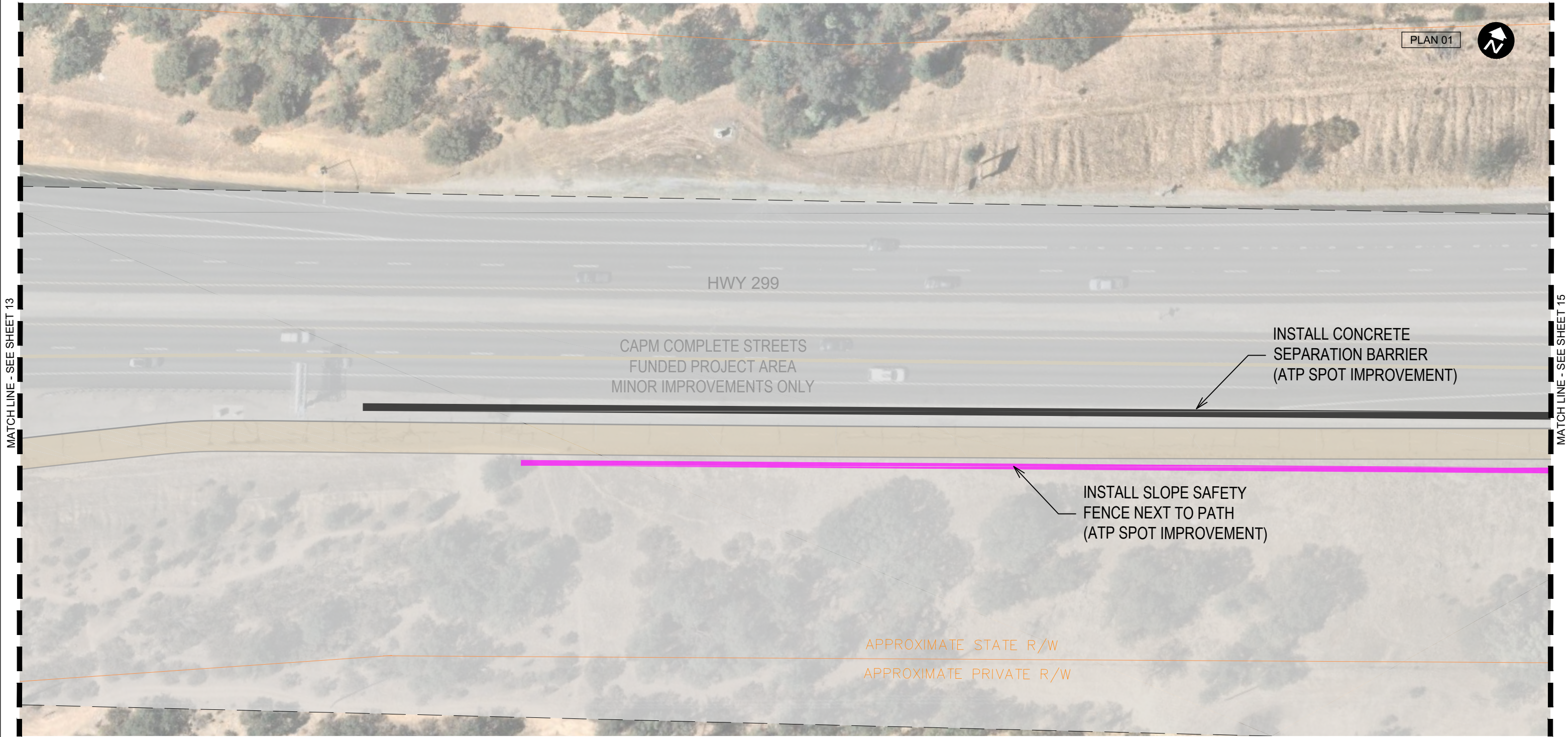
LEGEND	
	Sidewalk
	Shoulder
	Class I Shared-Use Path
	Landscape/Hardscape
	Road Alignment



SHEET 13 OF 27
PLAN

AUGUST 2020





10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

0 50' 100'

LEGEND

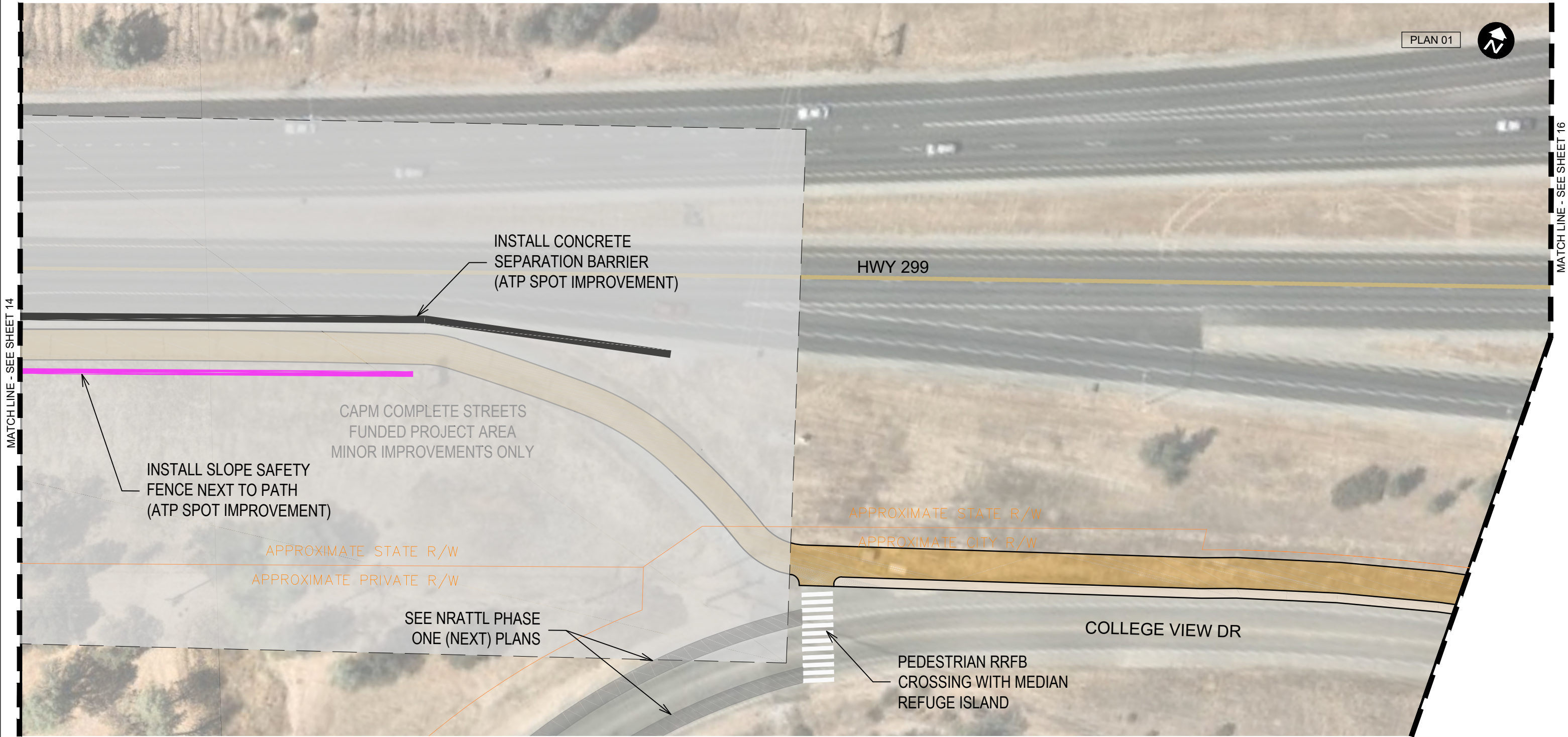
	Sidewalk		Road Alignment
	Shoulder		
	Class I Shared-Use Path		
	Landscape/Hardscape		

SHEET 14 OF 27
PLAN

AUGUST 2020

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CALTRANS ATP CYCLE 5

CITY OF REDDING

NORTH REDDING ATP TRUNK LINE - HWY 299

0 50' 100'

LEGEND

- Sidewalk
- Shoulder
- Class I Shared-Use Path
- Landscape/Hardscape
- Road Alignment

SHEET 15 OF 27

PLAN

AUGUST 2020

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10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

0 50' 100'

LEGEND

	Sidewalk		Road Alignment
	Shoulder		
	Class I Shared-Use Path		
	Landscape/Hardscape		

CITY OF REDDING CALIFORNIA

COUNTY OF SHASTA CALIFORNIA

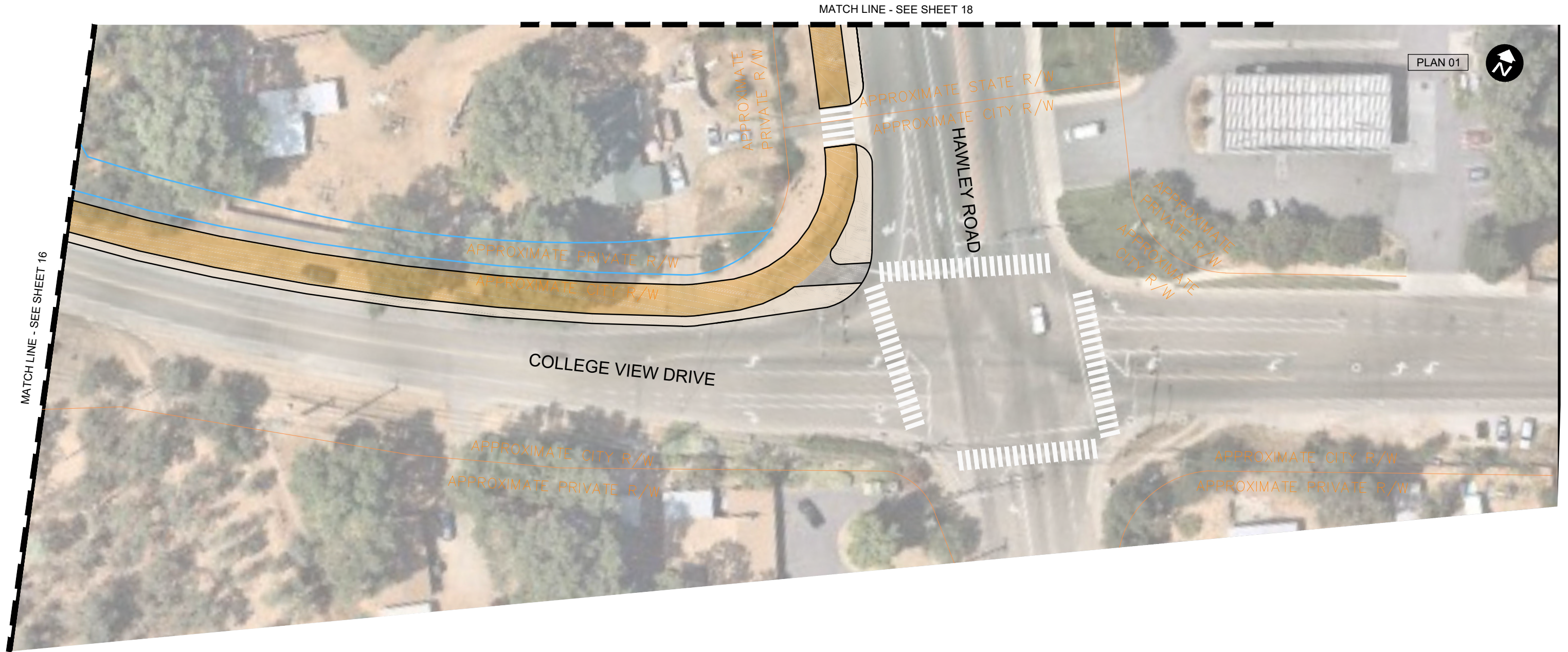
SHASTA COUNTY

Caltrans

SHEET 16 OF 27
PLAN

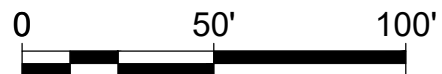
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CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



LEGEND

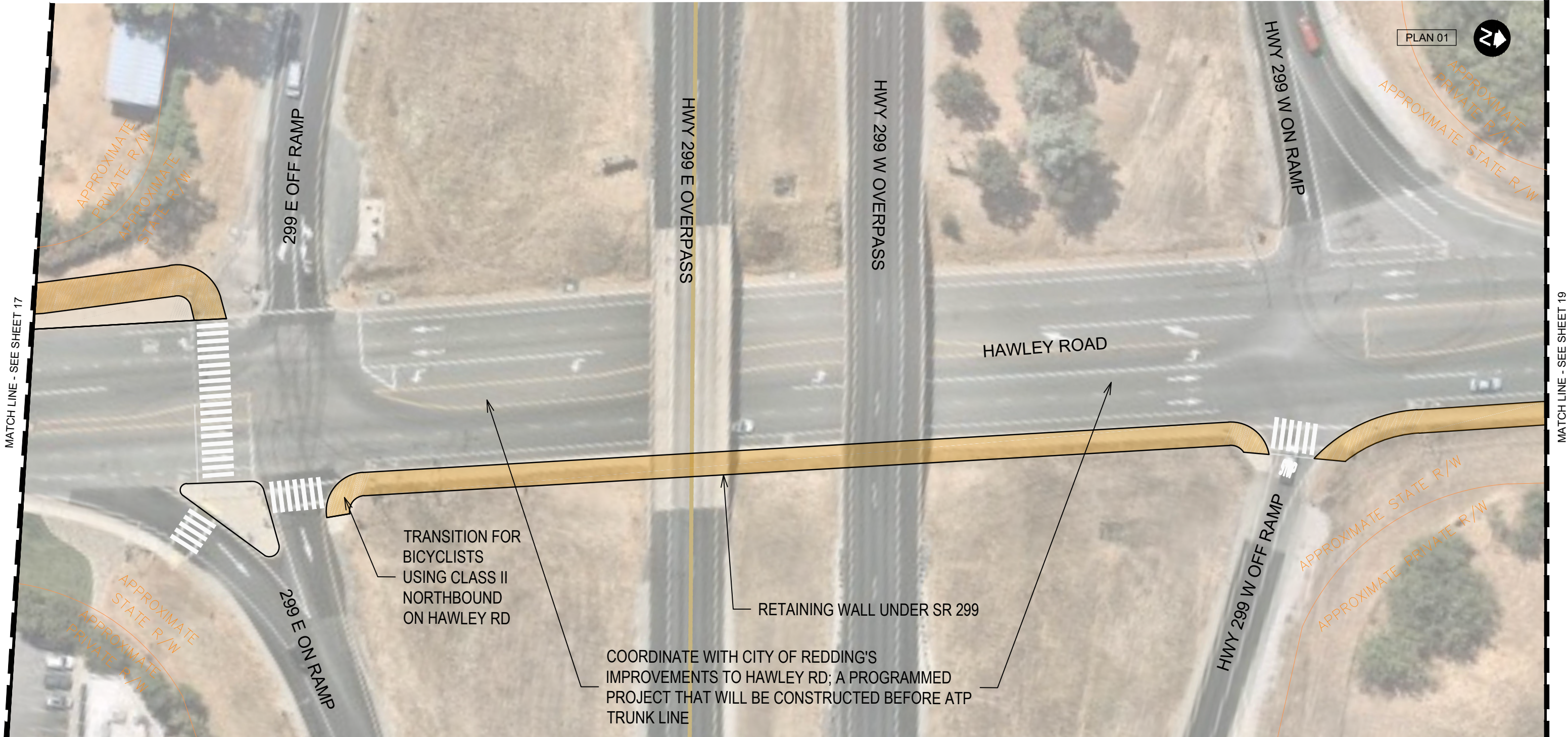
	Sidewalk		Road Alignment
	Shoulder		
	Class I Shared-Use Path		
	Landscape/Hardscape		



SHEET 17 OF 27
PLAN

AUGUST 2020





10% CONCEPTUAL DESIGN PLANS

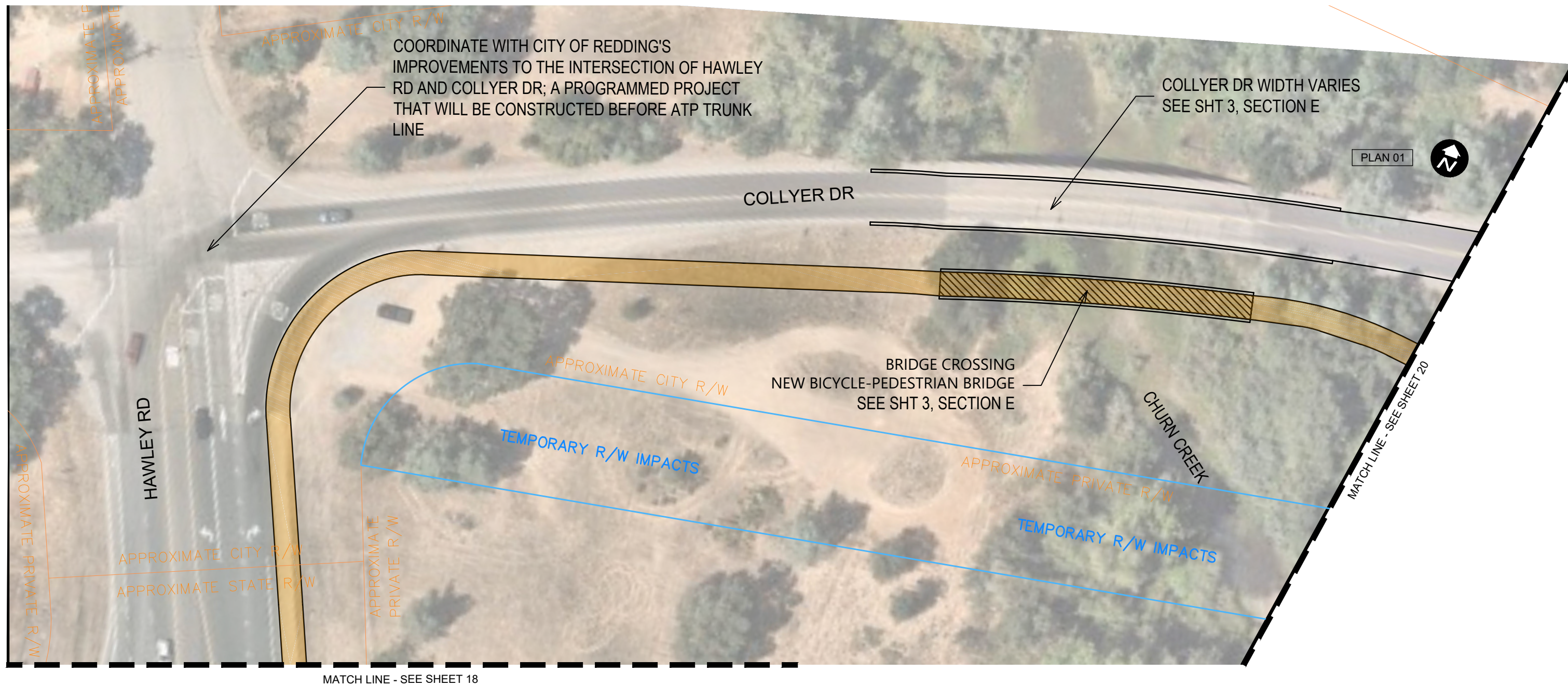
CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

0 50' 100'

LEGEND	
	Sidewalk
	Shoulder
	Class I Shared-Use Path
	Landscape/Hardscape
	Road Alignment

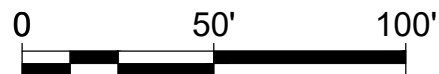


SHEET 18 OF 27
PLAN



10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



LEGEND	
	Sidewalk
	Shoulder
	Class I Shared-Use Path
	Landscape/Hardscape
	Road Alignment

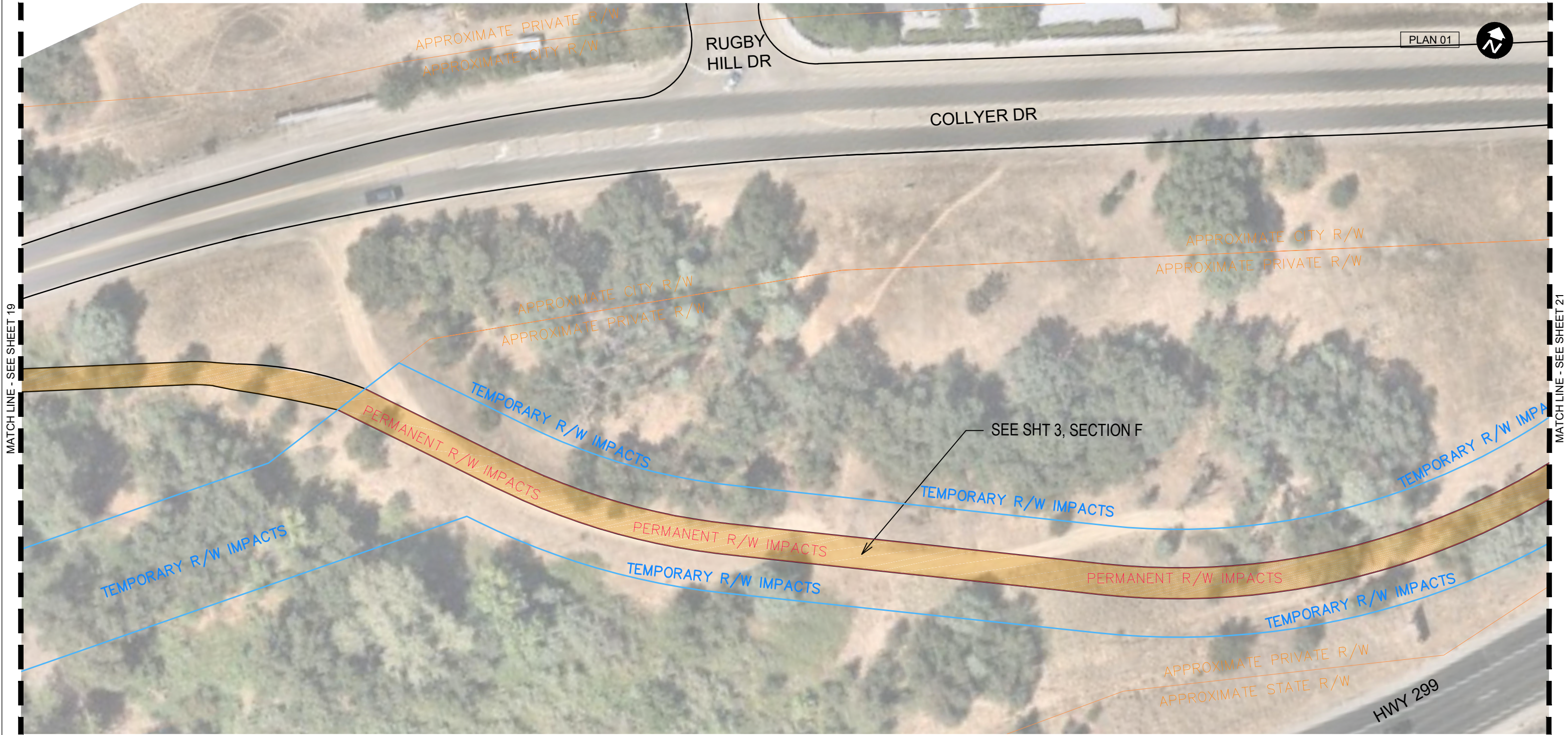


SHEET 19 OF 27
PLAN

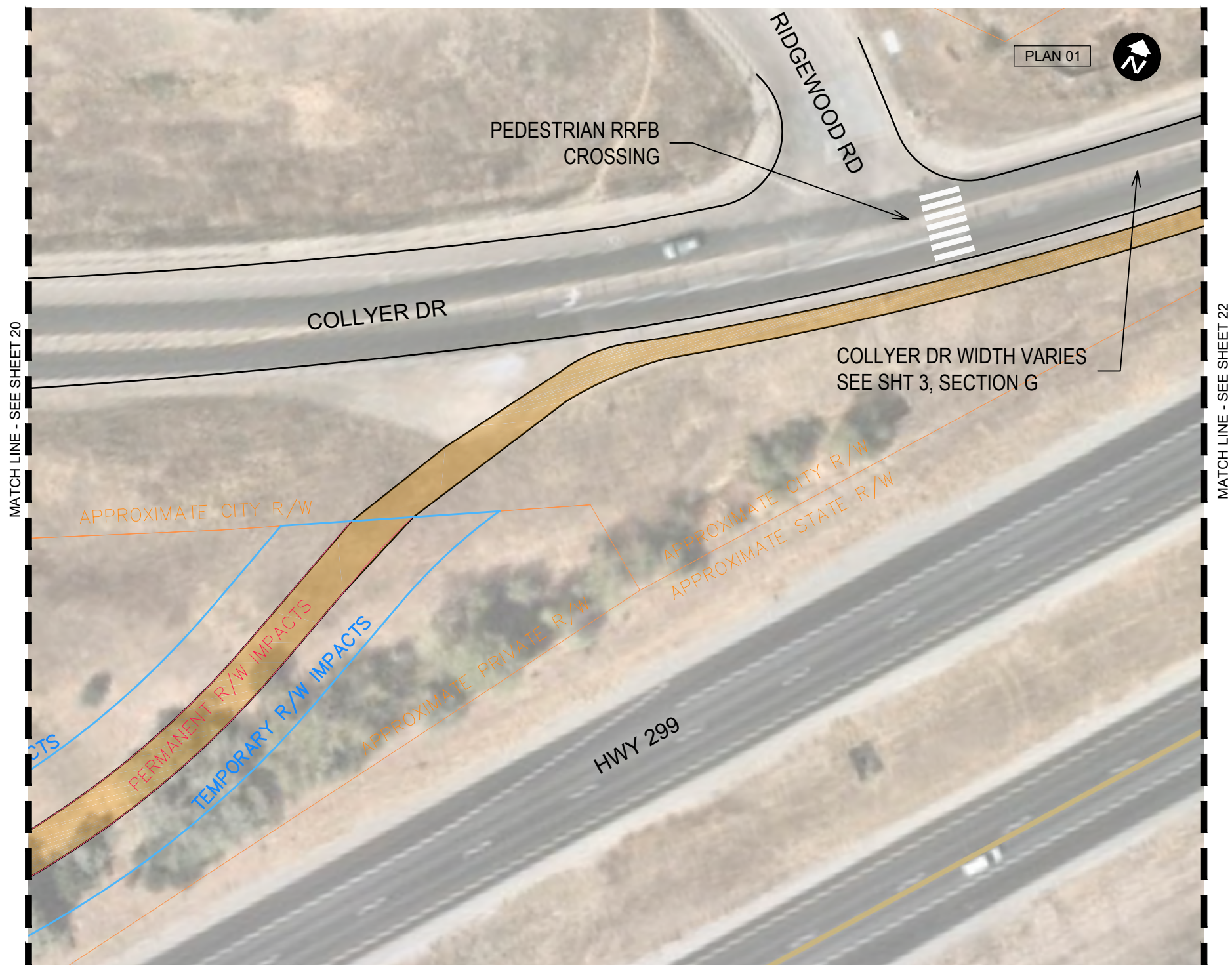
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10% CONCEPTUAL DESIGN PLANS



10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299

0

50'

100'

LEGEND

Sidewalk

Shoulder

Class I Shared-Use Path

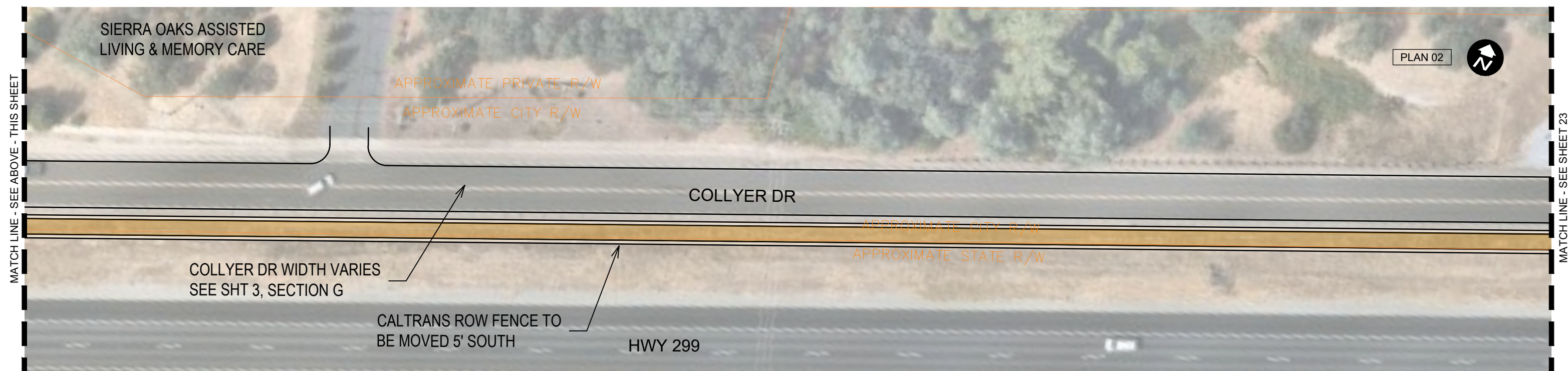
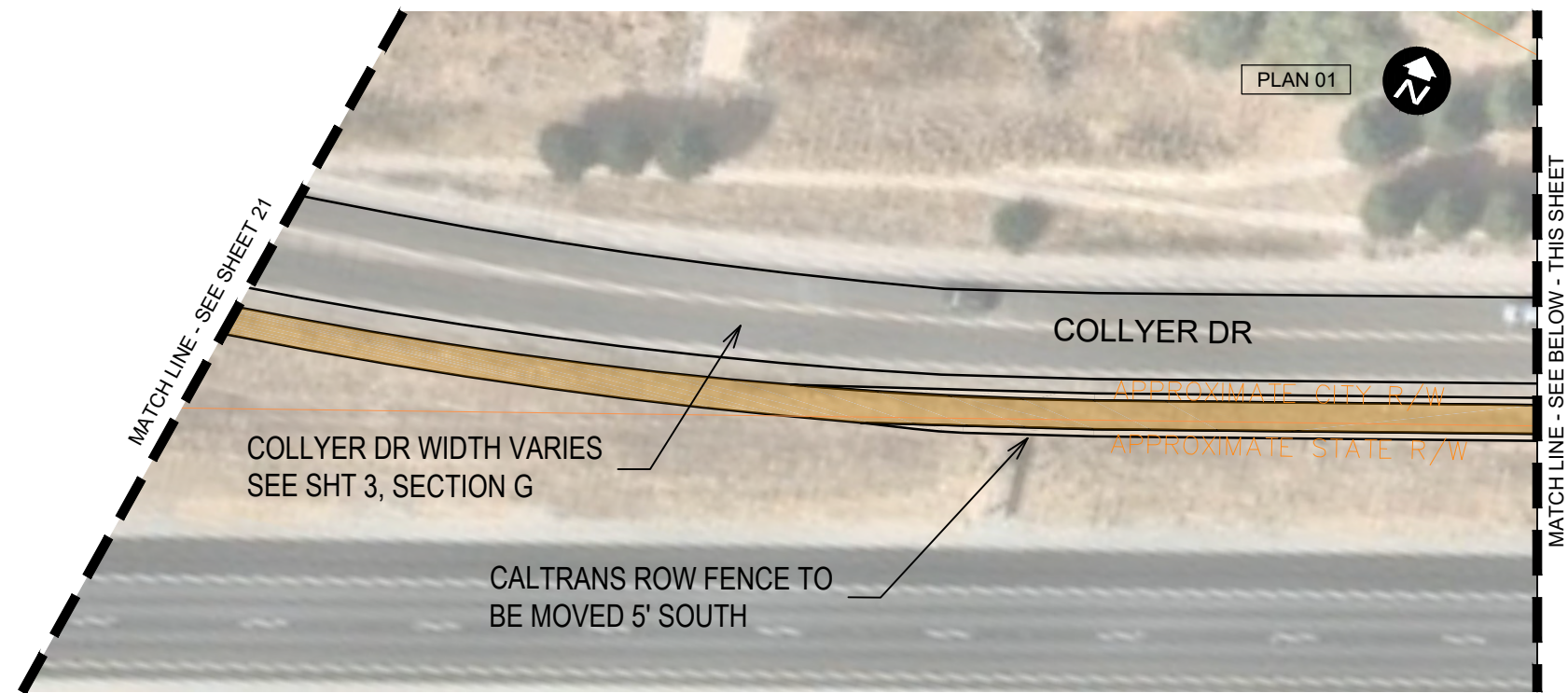
Landscape/Hardscape

Road Alignment

CITY OF REDDING
CALIFORNIA

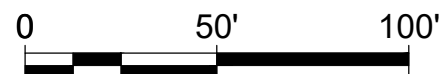
COUNTY OF SHASTA
CALIFORNIA

SHASTA
COUNTY



10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



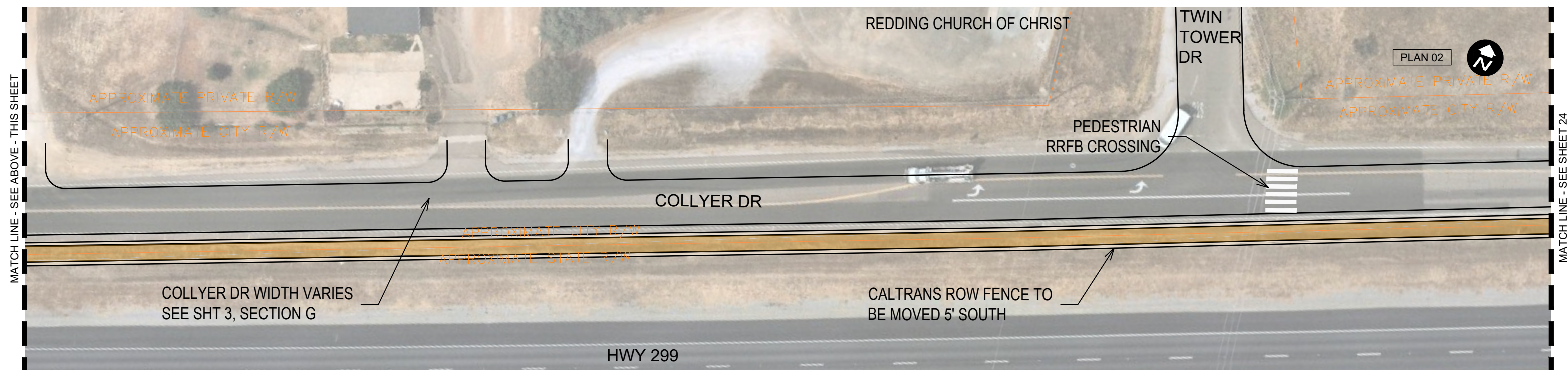
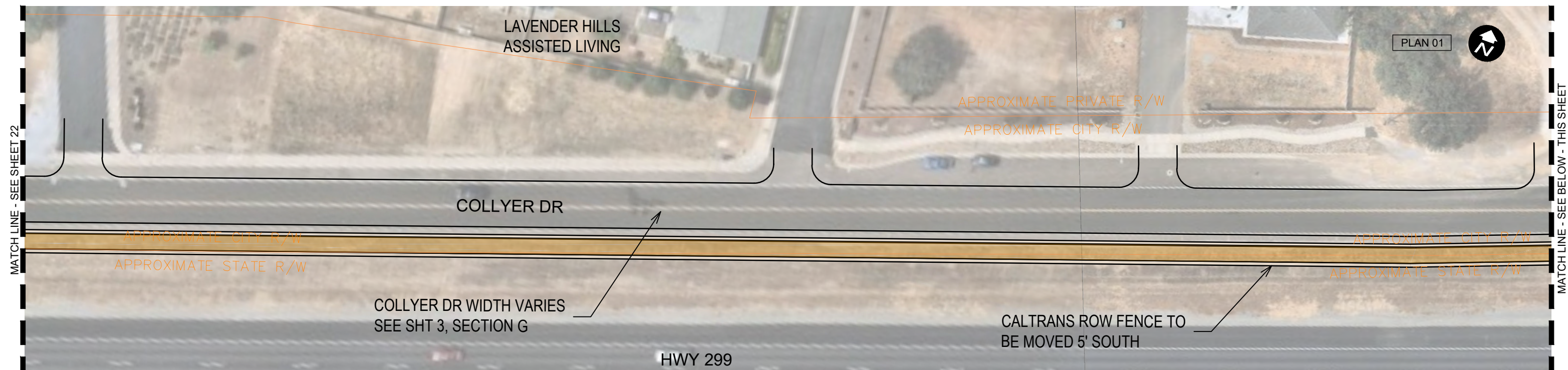
LEGEND	
	Sidewalk
	Shoulder
	Class I Shared-Use Path
	Landscape/Hardscape
	Road Alignment



SHEET 22 OF 27
PLAN

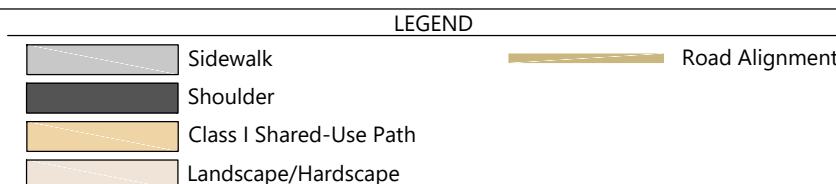
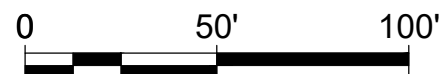
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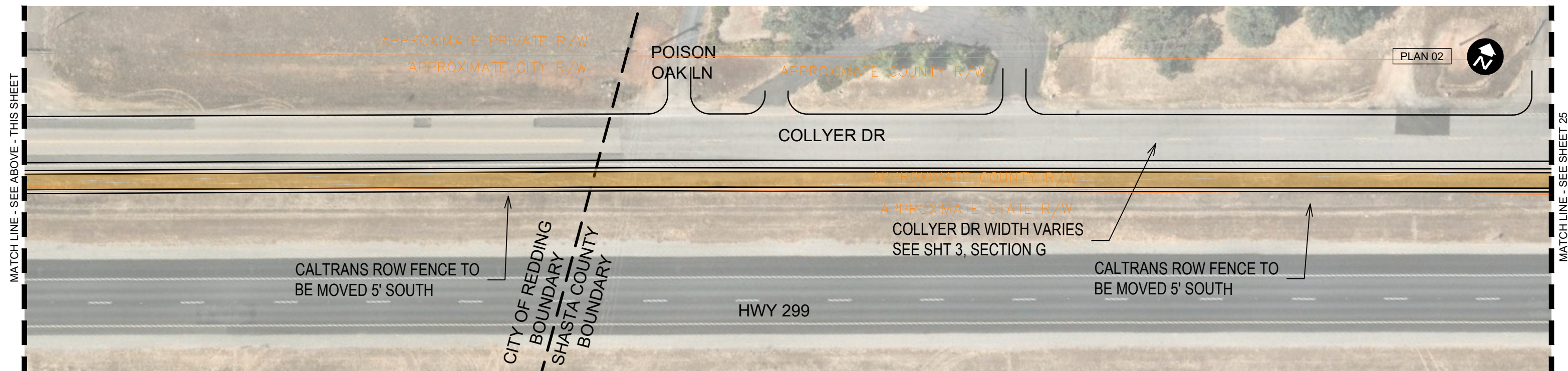
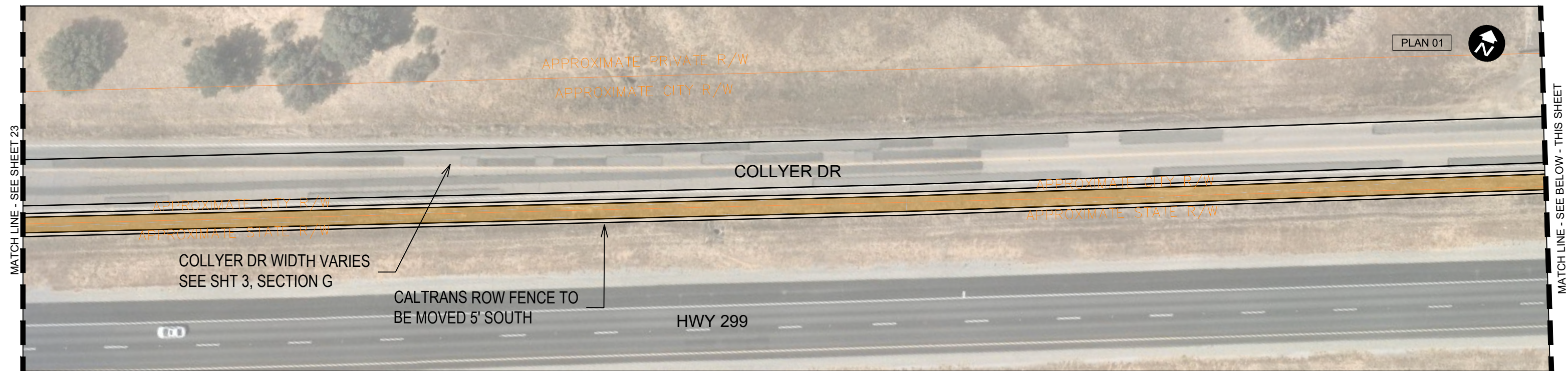
CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 23 OF 27
PLAN

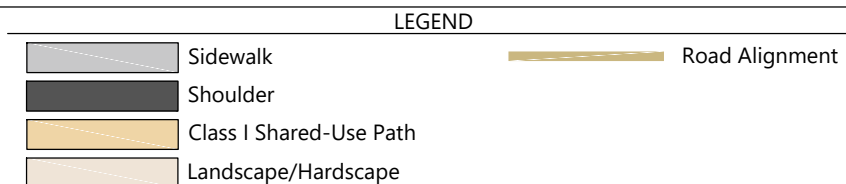
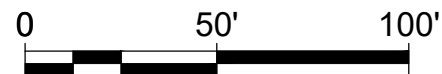
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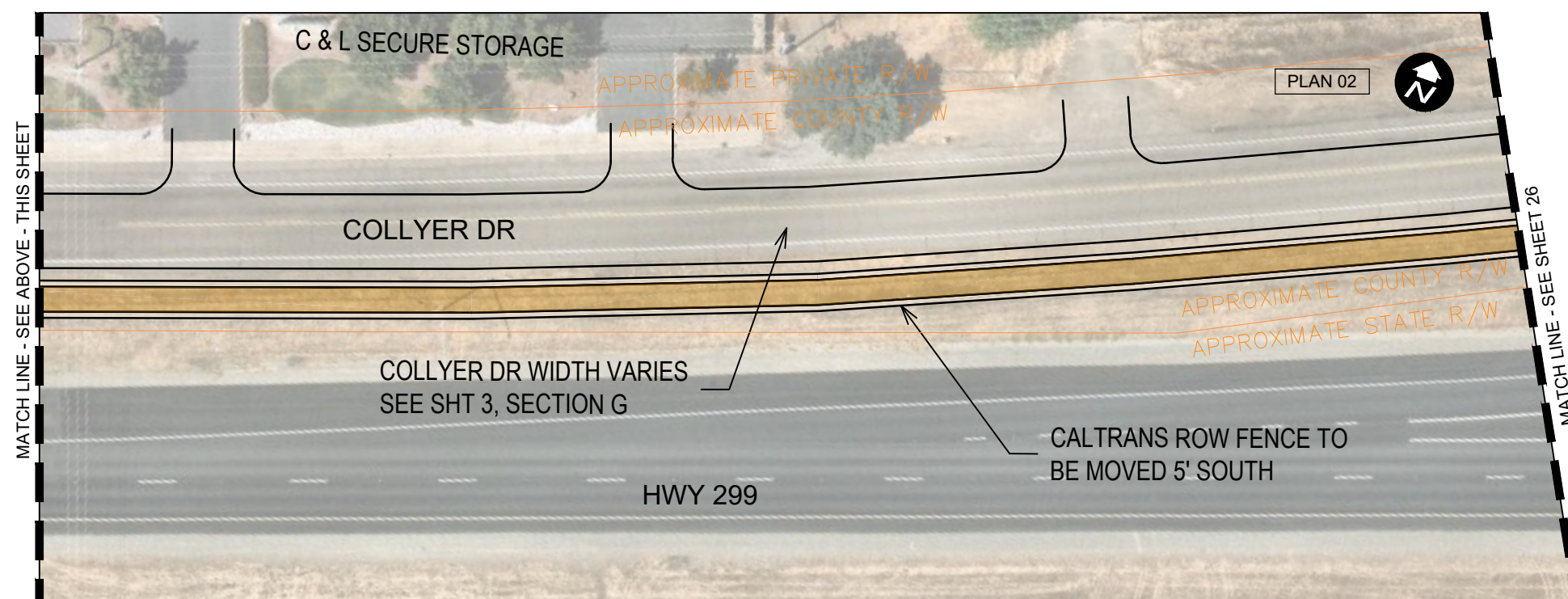
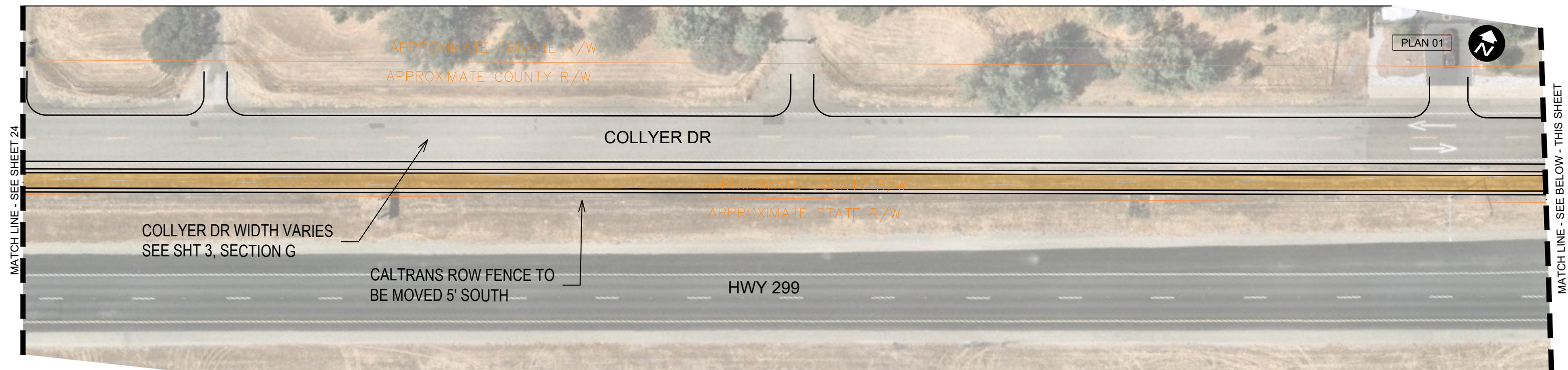
CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



SHEET 24 OF 27
PLAN

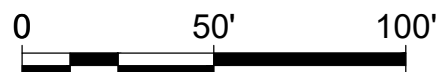
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CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



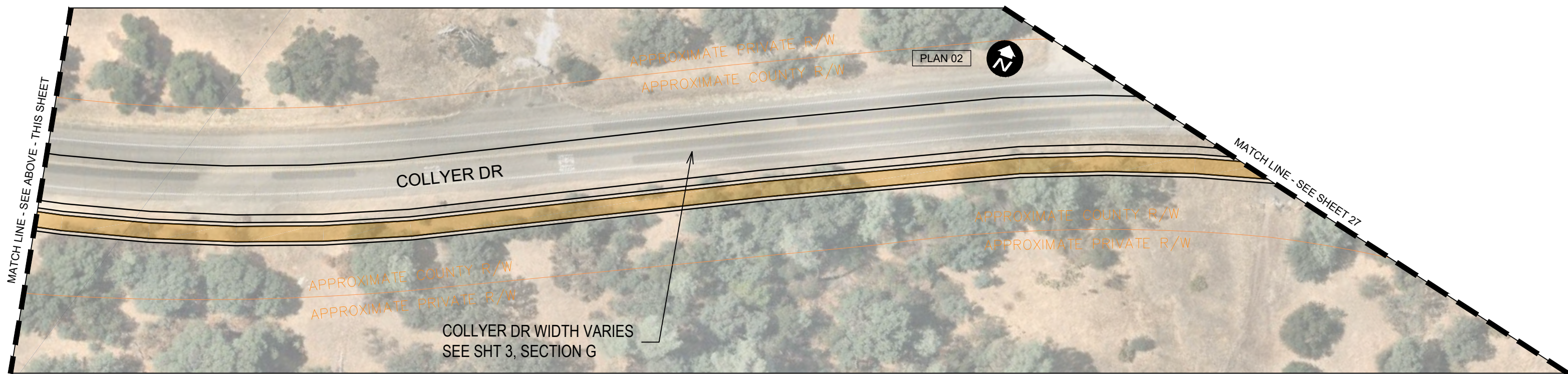
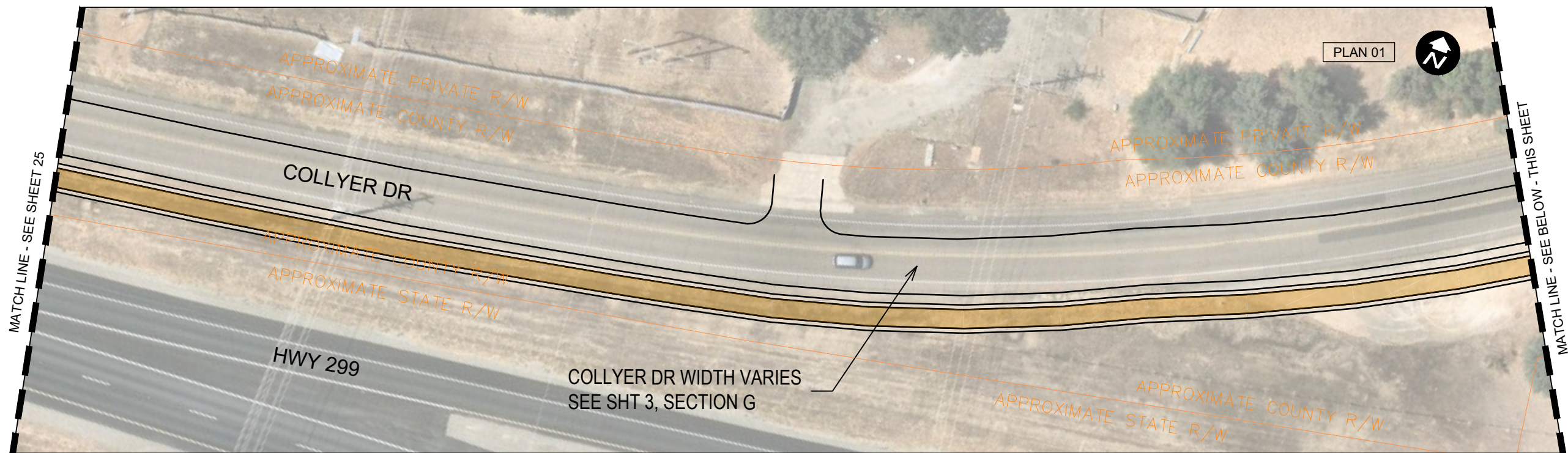
LEGEND	
	Sidewalk
	Shoulder
	Class I Shared-Use Path
	Landscape/Hardscape
	Road Alignment



SHEET 25 OF 27
PLAN

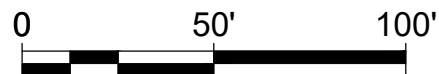
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10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



LEGEND	
	Sidewalk
	Shoulder
	Class I Shared-Use Path
	Landscape/Hardscape
	Road Alignment

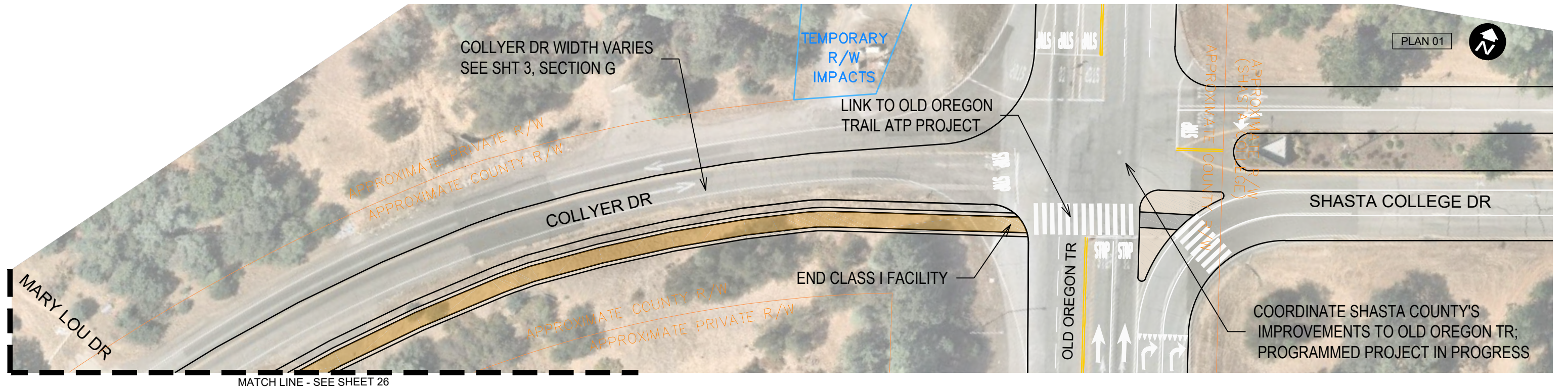


SHEET 26 OF 27
PLAN

AUGUST 2020

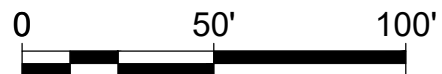


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10% CONCEPTUAL DESIGN PLANS

CALTRANS ATP CYCLE 5
CITY OF REDDING
NORTH REDDING ATP TRUNK LINE - HWY 299



LEGEND

	Sidewalk		Road Alignment
	Shoulder		
	Class I Shared-Use Path		
	Landscape/Hardscape		



SHEET 27 OF 27
PLAN

AUGUST 2020



BID SCHEDULE NO 5159



SHEET INDEX			
SHEET NO.	SHEET TITLE	DRAWING NO.	A NO.
1	TITLE SHEET	C0.0	A-29701
2	DATA SHEET	C1.0	A-29702
3	SUMMARY OF QUANTITIES	C11	A-29703
4	PLAN AND PROFILE	C2.0	A-29704
5	PLAN AND PROFILE	C3.0	A-29705
6	PLAN AND PROFILE	C4.0	A-29706
7	PLAN AND PROFILE	C5.0	A-29707
8	BRIDGE PLAN AND PROFILE	C6.0	A-29708
9-13	PEDESTRIAN BRIDGE	C7.0-C7.4	A-29709 - A-29713
14	TYPICAL DETAILS	C8.0	A-29714
15	TYPICAL DETAILS	C8.1	A-29715
16	TYPICAL DETAILS	C9.0	A-29716
17	TYPICAL DETAILS	C9.1	A-29717
18	TYPICAL DETAILS	C10.0	A-29718
19	CULVERT PLAN AND PROFILE	C11.0	A-29719
20	CULVERT PLAN AND PROFILE	C12.0	A-29720
21	ELECTRICAL DETAILS	E1.0	A-29721
22	ELECTRICAL DETAILS	E11	A-29722



R.M.U.	_____
ELECTRIC SUPPORT	_____
R.E.U.	_____
RABA/ TRAFFIC QPS	_____
SURVEY	_____

REDUCED PLANS

CITY ENGINEER

DATE _____

A-29701



800 Leisha Lane
Redding, California 96001
(530) 243-1760
FAX (530) 243-1503

CITY OF REDDING

JOB NO. 5112 BID SCH NO. 5159

TITLE SHEET

ORIGINAL SCALE:
N/A

DATE: 7/30/2020

SHEET OF

ABBREVIATIONS

@ - AT
 A/C - ASPHALT CONCRETE
 ACP - ASBESTOS CEMENT PIPE
 ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS
 BC - BEGINNING OF CURVE
 BDRY - BOUNDARY
 BF - BOTTOM OF FOOTING
 BFV - BUTTERFLY VALVE
 Bm - BENCH MARK
 BM - BEAM
 C - CHANNEL
 C-C - CENTER TO CENTER
 C&G - CURB AND GUTTER
 CALTRANS - CALIFORNIA DEPARTMENT OF TRANSPORTATION
 CB - CATCH BASIN
 Cb - CURB
 CCR - CALIFORNIA CODE OF REGULATIONS
 CF - CUBIC FOOT
 CF - CURB FACE
 CFE - CONC. FLARED END SECTION
 CIP - CAST IRON PIPE
 CLF - CHAIN LINK FENCE
 CL - CENTERLINE
 CL - CLEARANCE
 CLR - CLEAR
 CMP - CORRUGATED METAL PIPE
 CMPA - CORRUGATED METAL PIPE ARCH
 CP - CONTROL POINT
 CTSP - CALTRANS STANDARD PLANS
 CSP - CORRUGATED STEEL PIPE
 CO - CLEANOUT (SEWER)
 COL - COLUMN
 CONC - CONCRETE
 CONN - CONNECTION
 CY - CUBIC YARD
 DIA - DIAMETER
 DWG - DRAWING
 DWY - DRIVEWAY
 E - ELECTRIC
 (E) - EXISTING
 EA - EACH
 EC - END OF CURVE
 EG - EDGE OF GUTTER
 EL - ELEVATION
 ELB - ELBOW
 ELEV - ELEVATION
 EP - EDGE OF PAVEMENT
 ES - EACH SIDE
 ESA - ENVIRONMENTAL SENSITIVE AREA
 EXC - EXCAVATION
 EXST - EXISTING
 FDN - FOUNDATION
 FG - FINISH GRADE
 FH - FIRE HYDRANT
 FL - FLOW LINE
 FT - FEET
 FTG - FOOTING
 G - GAS
 GA - GAUGE
 GALV - GALVANIZED
 GM - GAS METER
 GP - GUY POLE
 GR - GRADE
 HORIZ - HORIZONTAL

ID - INSIDE DIAMETER
 ILA - IRRIGATED LANDSCAPE AREA
 INV - INVERT
 JT - JOINT
 LF - LINEAR FEET
 LS - LUMP SUM
 MAX - MAXIMUM
 MH - MANHOLE
 MIN - MINIMUM
 MISC - MISCELLANEOUS
 MON - MONUMENT
 (N) - NEW
 NTS - NOT TO SCALE
 OC - ON CENTER
 OD - OUTSIDE DIAMETER
 OG - ORIGINAL GROUND
 OH - OVERHEAD
 P - PLATE (STEEL)
 PCC - PORTLAND CEMENT CONCRETE
 PE - POLYETHYLENE
 P/L - PROPERTY LINE
 PLT - PLATE
 PP - POWER POLE
 PSI - POUNDS PER SQUARE INCH
 PVC - POLYVINYL CHLORIDE
 PVMT - PAVEMENT
 R - RADIUS
 REU - REDDING ELECTRIC UTILITY
 RC - RELATIVE COMPACTION
 RCP - REINFORCED CONCRETE PIPE
 R/W - RIGHT OF WAY
 REINF - REINFORCED OR REINFORCEMENT
 RO - ROUGH OPENING
 RR - RAILROAD
 RSP - ROCK SLOPE PROTECTION
 S - SLOPE
 SF - SQUARE FOOT
 SS - SEWER
 SST - STAINLESS STEEL
 SDP - STORM DRAIN PIPE
 SQ - SQUARE
 STA - STATION
 STD - STANDARD
 STRUC - STRUCTURAL OR STRUCTURE
 SVC - SERVICE
 SW - SIDEWALK
 SY - SQUARE YARD
 TBR - TO BE REMOVED
 TC - TOP OF CURB
 TS - TUBE STEEL
 TW - TOP OF WALL
 TYP - TYPICAL
 UG - UNDERGROUND
 USA - UNDERGROUND SERVICE ALERT
 UTIL - UTILITY
 V - VALVE BOX
 VERT - VERTICAL
 W - WATER
 WL - WETLAND
 WM - WATER METER
 WV - WEDGE VALVE

LEGEND

- - - - - R/W - - - - - RIGHT-OF-WAY LINE
 - - - - - PL - - - - - PROPERTY LINE
 - - - - - EXST FENCE
 - - - - - EXST DITCH
 - - - - - SLOPED EMBANKMENT
 - - - - - DECIDUOUS TREE
 - - - - - EXIST. TREE TO BE REMOVED
 - - - - - SECTION/DETAIL
 - - - - - SHEET NUMBER

NEXT PROJECT CONTROL

PT#	NORTHING	EASTING	ELEVATION	DESCRIPTION	STA	O/S
1	2105265.44	6461563.55	605.37	set spike	11+33.36'	-27.98
2	2105560.73	6461400.90	605.75	set spike	14+35.32'	-70.18
3	2105587.50	6461157.71	622.85	set pk	17+28.60'	-207.62
4	2105700.11	6461347.73	602.00	set spike	17+14.51'	11.64
5	2105595.96	6460969.68	621.55	set pk	17+44.11'	-374.06
6	2105153.29	6461683.73	603.79	set spike	9+77.19'	-11.34
7	2105555.89	6461474.52	606.55	set spike	14+42.35'	2.61
10056	2104922.16	6462227.58	602.19	fd nail	4+01.42'	43.88
10057	2104924.06	6462132.77	605.10	x on ssmh	4+72.12'	-14.50

CITY OF REDDING CONSTRUCTION STANDARDS

100.00	MATERIALS
131.00	STANDARD SIDEWALK
152.20	SIGN BASE
200.00	DRAINAGE CRITERIA
272.00	CONCRETE FLARED END SECTION
400.00	BEDDING MATERIAL
501.00	ELECTRIC UTILITY CONSTRUCTION REQUIREMENTS
507.20/507.21	DISTRIBUTION PEDESTALS
556.00	TYPICAL STREET LIGHT STANDARD BASE DETAIL
608.00	LOCATING WIRE
610.00	TRENCH BACKFILL
612.00	ADJUST MANHOLE
635.00	PAVED PATH

CALTRANS STANDARD PLANS

D75A OCPI

TRAIL DESIGN CRITERIA*

1.5% MAXIMUM CROSS-SLOPE
 5% MAXIMUM GRADE
 16 MPH DESIGN SPEED
 20 DEGREE LEAN ANGLE
 47' MINIMUM HORIZONTAL CURVE RADIUS

*PER AASHTO "DESIGN OF SHARED USE PATHS" CHAPTER 5

GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, DATED 2015, (GREENBOOK) THE CITY OF REDDING CONSTRUCTION STANDARDS, DATED 2018, AND THE CONTRACT SPECIFICATIONS AS THEY PERTAIN TO THE WORK DEPICTED HEREIN.
- ALL UTILITIES SHOWN ARE STRICTLY FOR THE CONVENIENCE OF THE CONTRACTOR. UTILITY LOCATIONS ARE ONLY APPROXIMATE AND THE CONTRACTOR IS ADVISED TO INVESTIGATE EACH UTILITY SHOWN AS WELL AS BE AWARE OTHER UTILITIES NOT SHOWN MAY EXIST. SEE NOTICE AT LOWER LEFT.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND TO PROVIDE FOR THE PROPER AND CONTINUOUS SAFE ROUTING OF VEHICLE AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. THE USE OF FLAGGERS, BARRICADES AND CONSTRUCTION SIGNING SHALL COMPLY WITH CHAPTER 5 OF THE CALTRANS MANUAL OF TRAFFIC CONTROLS CURRENT EDITION.
- CARE SHALL BE TAKEN TO PROTECT EXISTING PLANTS, SHRUBS, TREES, LAWN, LANDSCAPE AREAS AND IRRIGATION SYSTEMS. ANY ITEMS REMOVED OR DAMAGED SHALL BE REPLACED. ALL ITEMS WHICH REQUIRE REMOVAL OR ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED TO ORIGINAL CONDITION AND TO THE APPROVAL OF THE ENGINEER.

NOTE: THIS IS A STANDARD ABBREVIATION LIST. THEREFORE SOME ABBREVIATIONS MAY BE LISTED ON THIS SHEET BUT NOT UTILIZED ON THE DRAWINGS FOR THIS PROJECT.

NOTE: THIS IS A STANDARD LEGEND. THEREFORE SOME SYMBOLS MAY BE SHOWN ON THIS SHEET BUT NOT UTILIZED ON THE DRAWINGS FOR THIS PROJECT.

REDUCED
PLANS

A-29702

DESIGNED BY J. STOLL DRAWN BY D. ZAITZ	ORIGINAL SCALE IN INCHES 	CITY OF REDDING RECORD DRAWING DATE
CITY OF REDDING PUBLIC WORKS DEPARTMENT		
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE		
JOB NO. 5112 BID-SCH NO. 5159 DATA SHEET		
C10 ORIGINAL SCALE: AS SHOWN DATE: 7/30/2020 SHEET OF		

NO	CONSTRUCTION CONTRACT ITEMS	UNIT	QUANTITY
1	TRAFFIC CONTROL	LS	1
2	PROJECT FUNDING SIGN	EA	1
3	SWPPP (PREPARE)	LS	1
4	SWPPP (IMPLEMENT)	LS	1
5	RAIN EVENT ACTION PLAN (REAPS)	EA	1
6	FENCE (TEMPORARY, TYPE ESA)	LF	500
7	SURVEYING (CONSTRUCTION)	LS	1
8	CLEAR AND GRUB	LS	1
(F) 9	EXCAVATION (UNCLASSIFIED)	CY	490
(F) 10	BORROW (IMPORTED)	CY	470
11	ADJUST MANHOLE	EA	2
12	STORM DRAIN PIPE (24" RCP)	LF	72
13	STORM DRAIN INLET (OCPI)	EA	1
14	FLARED END SECTION (24" RCP)	EA	3
15	INSTALL 80' PEDESTRIAN BRIDGE	LS	1
(F) 16	AGGREGATE BASE (CLASS 2)	CY	770
17	CONCRETE (BRIDGE ABUTMENT)	CY	14
18	CONCRETE (BRIDGE DECK)	SF	800
(F) 19	SLURRY BACKFILL	CY	4
20	PAVED PATH (CONCRETE REINFORCED)	SF	500
21	ASPHALT CONCRETE (OGFC)	TON	192
22	ASPHALT CONCRETE	TON	384
23	PAVEMENT FABRIC	SY	3,250
24	BOULDER	EA	20
25	BOLLARD (FOLDING)	EA	3
26	TRAFFIC STRIPE (4" WATERBORNE)	LF	2,727
27	SIGNS - (DIRECTION AND REGULATORY)	EA	2
28	CONDUIT (4")	LF	50
29	TRAIL LIGHT (STANDARD, BASE AND LUMINARE)	EA	34
30	ELECTRICAL	LS	1

(F) FINAL PAY ITEM

REDUCED
PLANS

A-29703

DESIGNED BY
J. STOLL

DRAWN BY
D. ZAITZ

ORIGINAL SCALE IN INCHES
1"=20'

CITY OF REDDING RECORD DRAWING

DATE

DESIGNED BY:
DATE: 7/30/2020



PROJECT ENGINEER

CITY OF REDDING

PUBLIC WORKS DEPARTMENT

NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE

JOB NO. 5112

BID SCH. NO. 5159

SUMMARY OF QUANTITIES

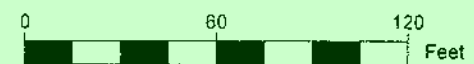
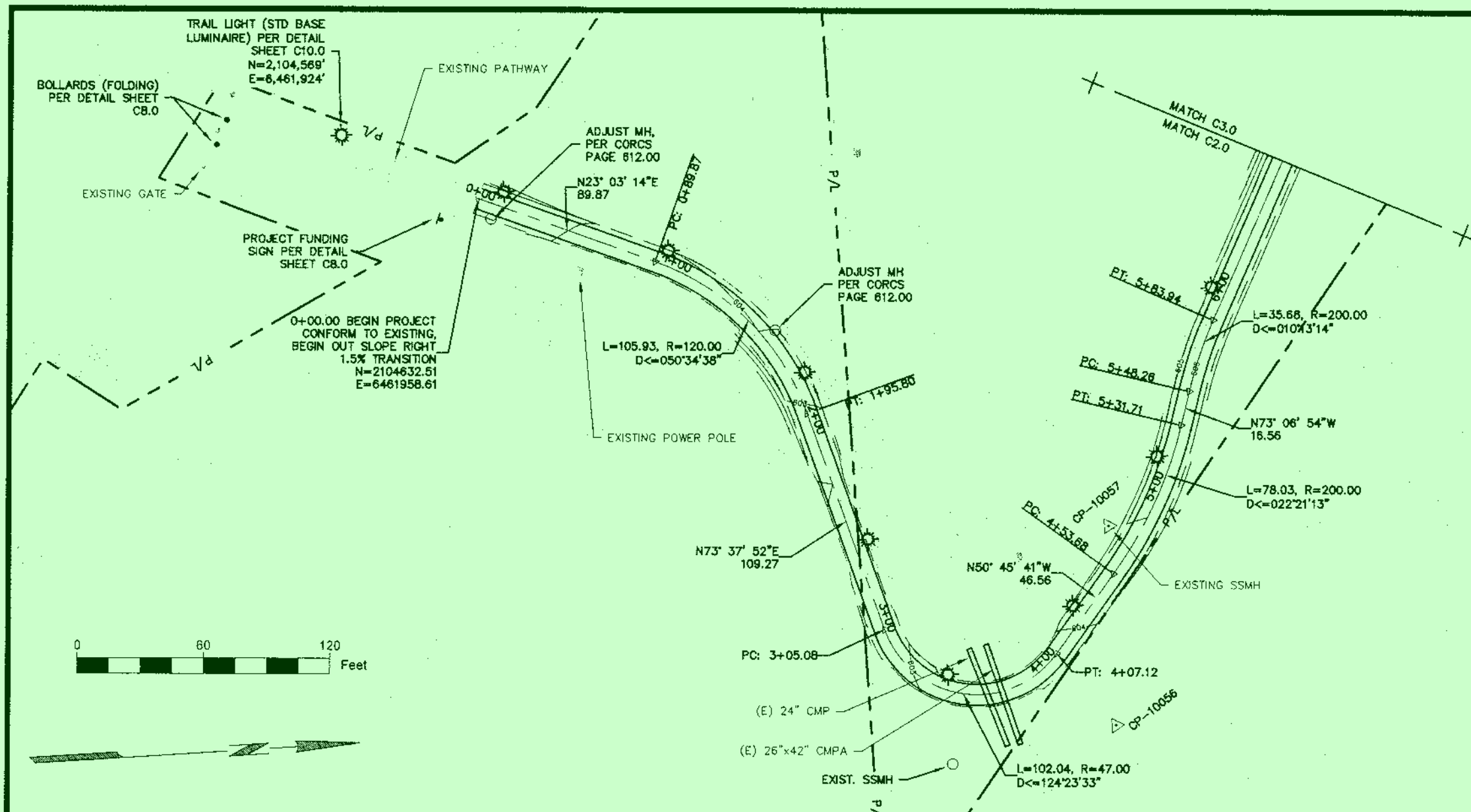
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ORIGINAL SCALE:
AS SHOWN

DATE: 7/30/2020

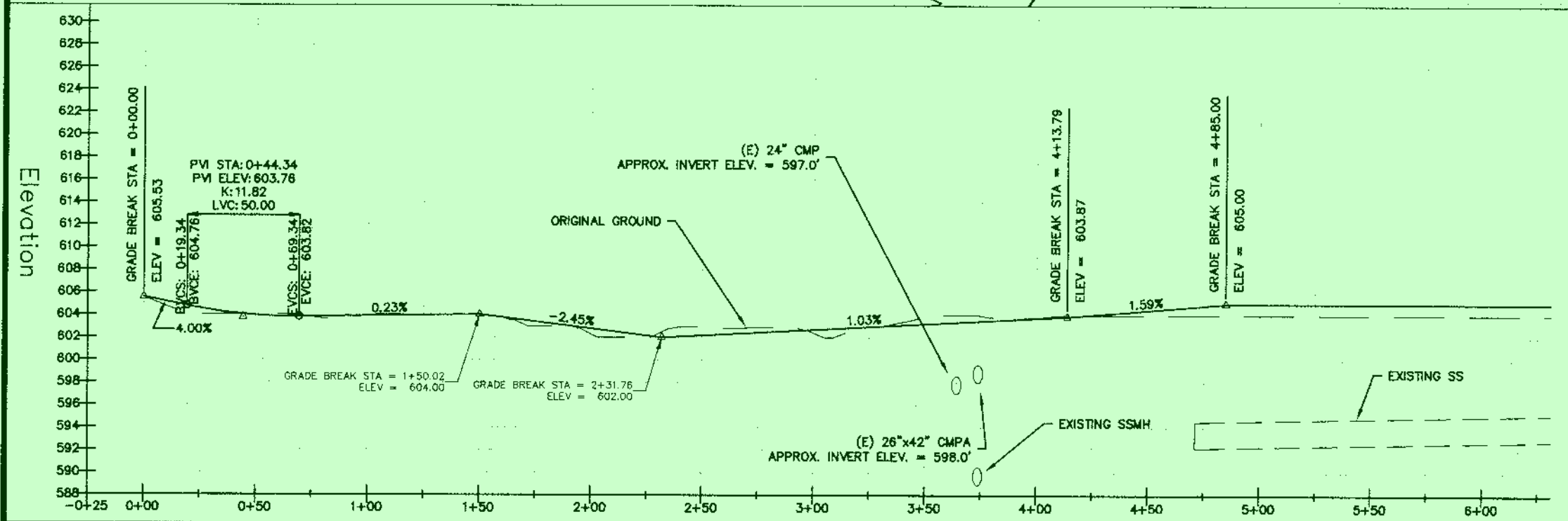
SHEET OF

C:\p1\stoll_boulder_creek_trail\quantities.dwg 0.82, 7/30/2020



LIGHT LOCATION TABLE

Station	Offset	Description
0+10.00	-7.000'	Light
0+94.00	-7.000'	Light
1+78.00	-7.000'	Light
2+62.00	-7.000'	Light
3+46.00	-7.000'	Light
4+30.00	-7.000'	Light
5+14.00	-7.000'	Light
5+98.00	-7.000'	Light
6+82.00	-7.000'	Light
7+66.00	-7.000'	Light
8+50.00	-7.000'	Light
9+34.00	-7.000'	Light
10+18.00	-7.000'	Light
11+02.00	-7.000'	Light
11+86.00	-7.000'	Light
12+70.00	-7.000'	Light
13+54.00	7.000'	Light
14+17.67	-7.000'	Light
15+07.12	-7.000'	Light
16+06.00	-7.000'	Light
16+90.00	7.000'	Light
17+74.00	7.000'	Light
18+58.00	-7.000'	Light
19+42.00	-7.000'	Light
20+26.00	-7.000'	Light
21+10.00	-7.000'	Light
21+94.00	-7.000'	Light
22+78.00	-7.000'	Light
23+62.00	-7.000'	Light
24+46.00	7.000'	Light
25+30.00	-7.000'	Light
26+14.00	-7.000'	Light
26+98.00	7.000'	Light



REDUCED PLANS

DESIGNED BY: J. STOLL

DRAWN BY: D. ZAITZ

DATE: 7/30/2020

PROJECT: ENCL. 1

ORIGINAL SCALE IN INCHES

1" = 100'

CITY OF REDDING

PUBLIC WORKS DEPARTMENT

NORTHEAST CROSSING TRAIL

PROJECT - PHASE ONE

JOB NO. 5112

BID. SCH. NO. 5159

PLAN AND PROFILE

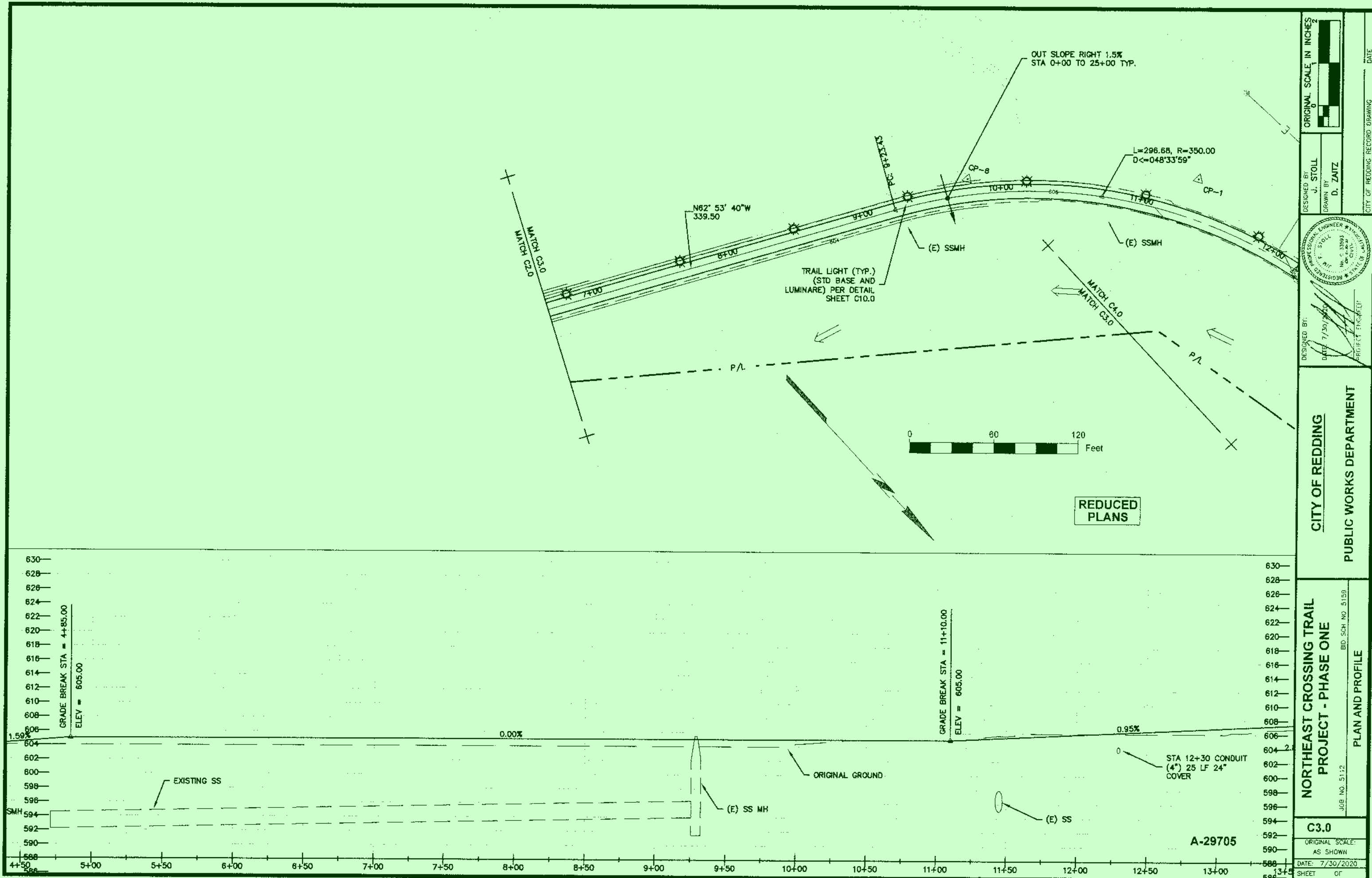
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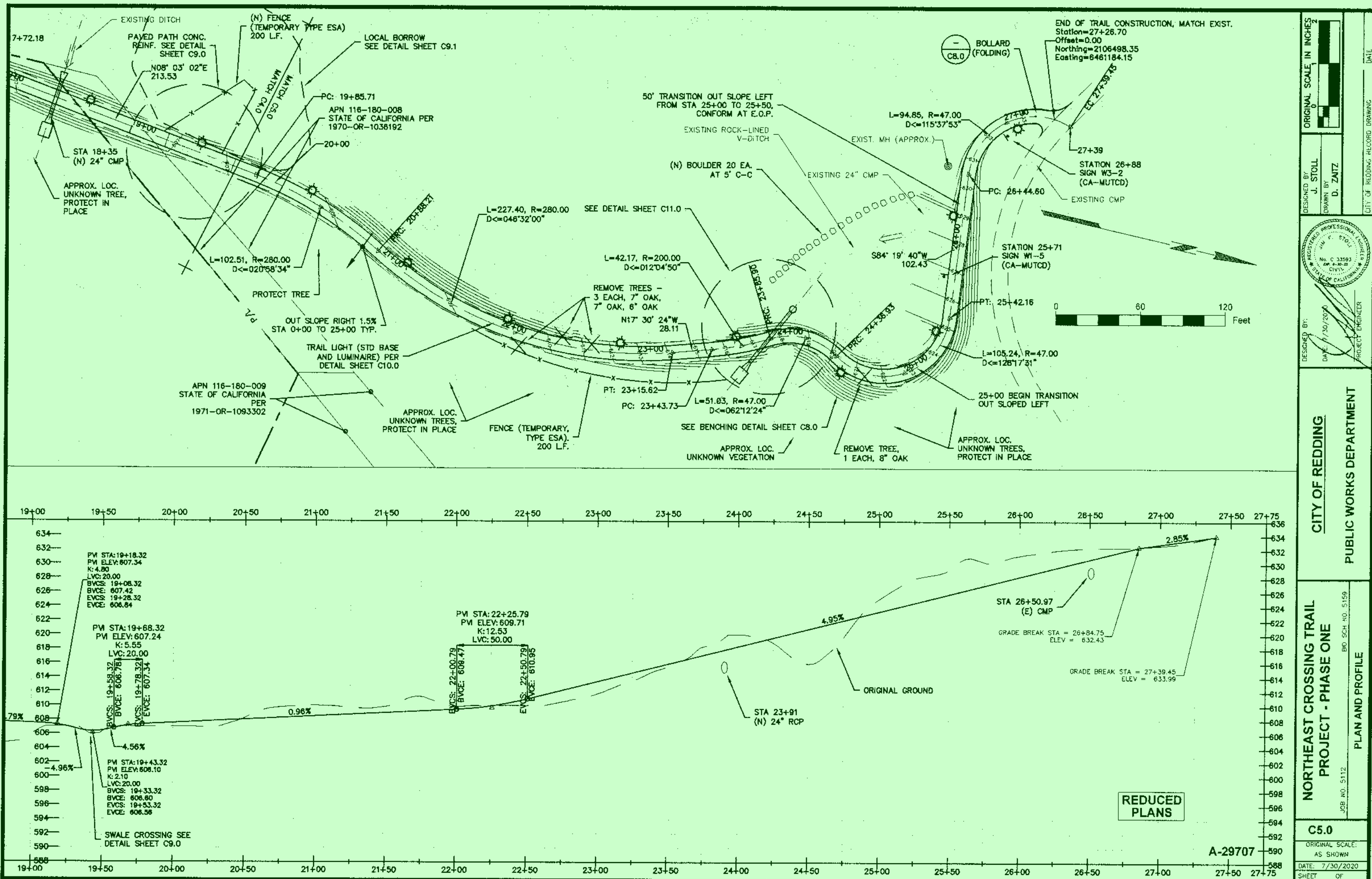
ORIGINAL SCALE: AS SHOWN

DATE: 7/30/2020

SHEET 0F

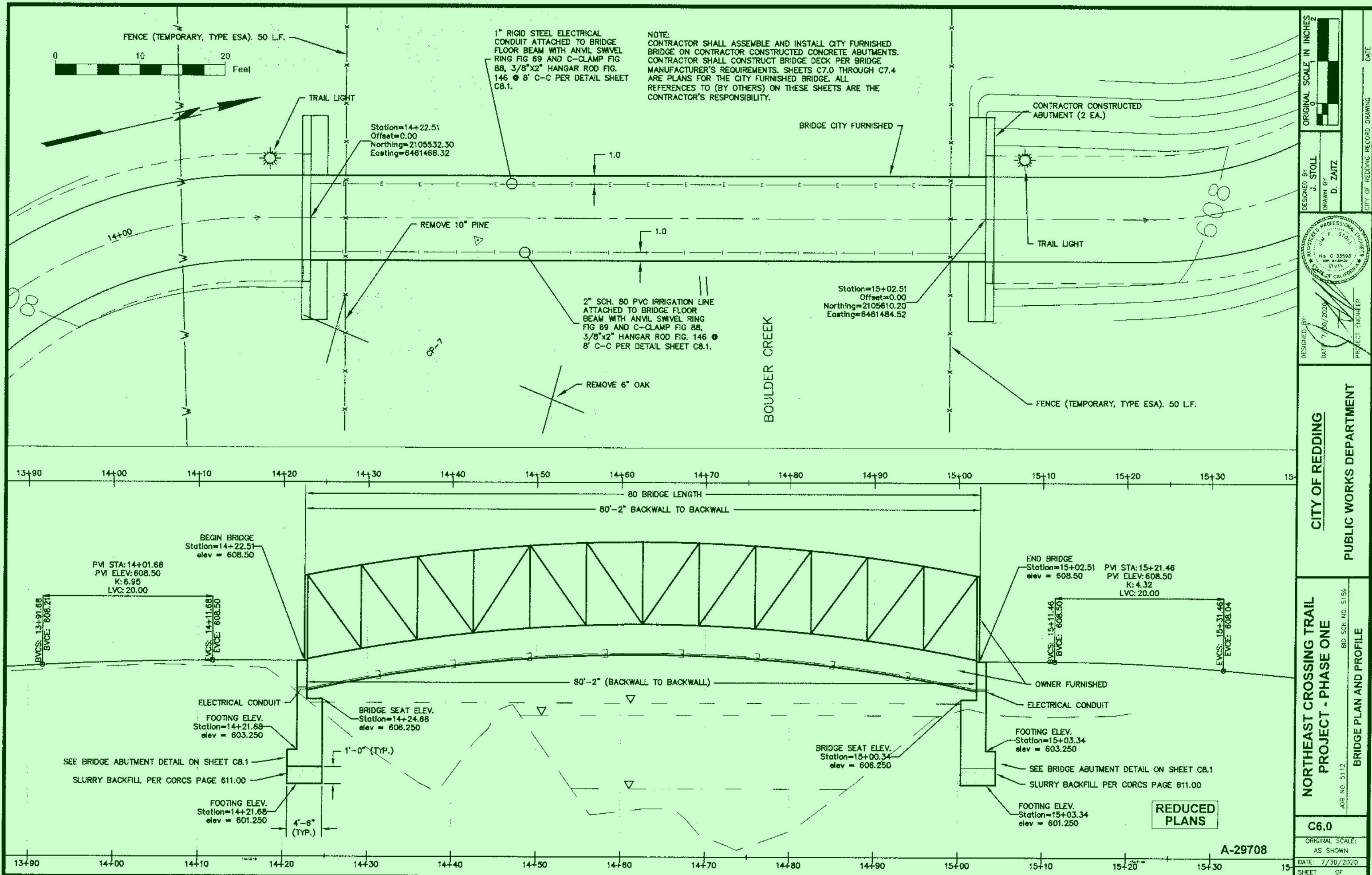
A-29704



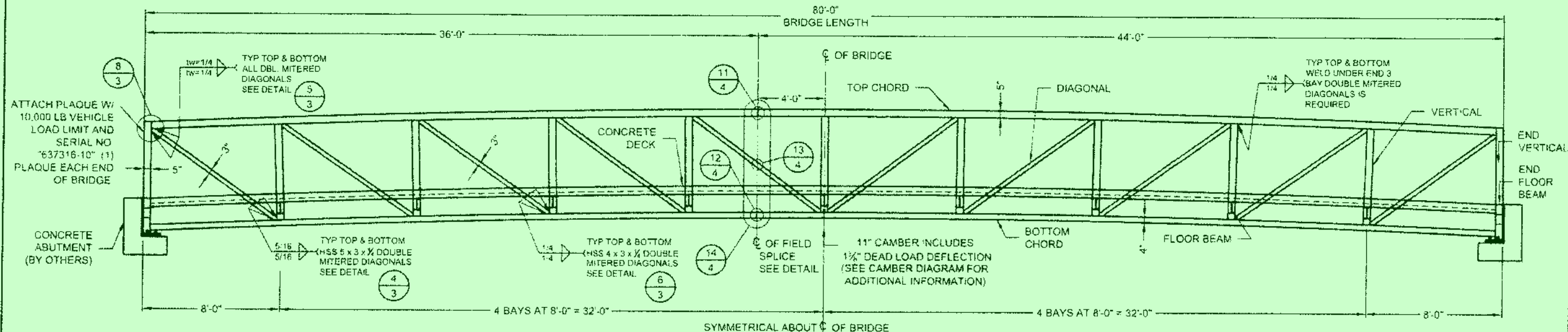


ORIGINAL SCALE IN INCHES 1" = 40'	
DESIGNED BY J. STOLL	DRAWN BY D. ZATZ
CITY OF REDDING RECORD DRAWING DATE: 7/30/2020 PROJECT ENGINEER	
CITY OF REDDING PUBLIC WORKS DEPARTMENT	
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE JOB NO. 5112 BID. SCH. NO. 5159	
PLAN AND PROFILE	
C5.0	
ORIGINAL SCALE: AS SHOWN	
DATE: 7/30/2020 SHEET 1 OF 1	

A-29707



DESIGNED BY J. STOLL	ORIGINAL SCALE IN INCHES 1" = 20'	CITY OF REDDING RECORD DRAWING DATE 7/30/2020
DRAWN BY D. ZAITZ	PROJECT ENGINEER J. STOLL	
CITY OF REDDING PUBLIC WORKS DEPARTMENT		
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE		
BRIDGE PLAN AND PROFILE		
JOB NO. 5112 BID. SCH. NO. 5159		
C6.0		
ORIGINAL SCALE: AS SHOWN		
DATE: 7/30/2020		
SHEET OF		



GENERAL NOTES

- DESIGN STRESSES ARE IN ACCORDANCE WITH "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" & "GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES" BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 2009.
- BRIDGE MEMBERS ARE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES ($F_y = 50,000$ PSI).
- CONCRETE DECK, GALVANIZED FORM DECK SUPPLIED BY CONTECH. CONCRETE REINFORCING, AND EXPANSION MATERIAL SUPPLIED BY OTHERS. SEE CONCRETE DECK SHEET.
- THE GAS METAL ARC WELDING PROCESS OR FLUX CORED ARC WELDING PROCESS WILL BE USED WELDING TO BE IN ACCORDANCE WITH AWS D1.1.
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE AS DETAIL.
- UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:
 - BOTH ENDS OF VERTICALS, DIAGONALS, AND FLOOR BEAMS SHALL BE WELDED ALL AROUND
 - BRACE DIAGONALS WILL BE WELDED ALL AROUND
 - MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- BRIDGE DESIGN WAS ONLY BASED ON COMBINATIONS OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM CRITICAL MEMBER STRESSES.
 - 90 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 10,000 LB VEHICLE LOAD THE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF THE LOAD ON THE REAR WHEELS. THE WHEEL TRACK WIDTH OF THE VEHICLE SHALL BE 6'-0" AND THE WHEEL BASE SHALL BE 10'-0". THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIMUM STRESSES IN EACH MEMBER, INCLUDING DECKING.
 - 35 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
 - 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH (AASHTO 3.15.3).
 - SEISMIC LOADING WITH PEAK GROUND ACCELERATION ($PGA = 0.22g$)
 - 30 PSF UNIFORM SNOW LOADING APPLIED ON THE FULL DECK AREA

- CLEANING: ALL EXPOSED SURFACES OF STEEL SHALL BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACES PREPARATION SPECIFICATIONS NO. 7 BRUSH-OFF BLAST CLEANING. SSPC-SP7-LATEST EDITION. EXPOSED SURFACES IS DEFINED AS THOSE VISIBLE FROM THE DECK AND FROM THE OUTSIDE OF THE STRUCTURE. FLOOR BEAMS, BRACE DIAGONALS AND THE INSIDE AND BOTTOM OF DECK SUPPORT WILL NOT BE BLAST CLEANED.
- MINIMUM MATERIAL THICKNESS OF 1/4" ON ALL STRUCTURAL MEMBERS
- WELD TESTING: ALL WELD TESTING SHALL BE DONE BY A PERSON QUALIFIED
 - ASNT SNT-TC-1A
 - ALL FULL PENETRATION WELDS IN THE CHORDS ARE TO BE RADIOGRAPH TESTED I.A.W. AWS SPECIFICATIONS.
 - ALL FILLET AND PARTIAL PENETRATION GROOVE WELDS SHALL BE VISUALLY INSPECTED WITH 10% ALSO BEING MAGNETIC PARTICLE TESTED I.A.W. AWS SPECIFICATIONS.
 - A WRITTEN TESTING REPORT SHALL BE SUBMITTED UPON COMPLETION

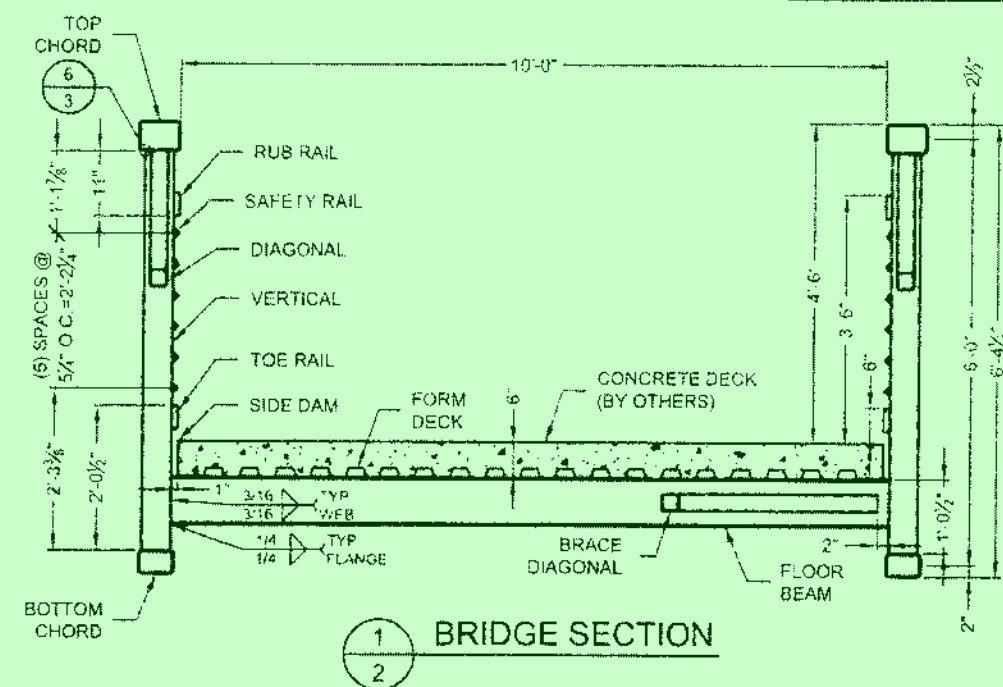
NOTE: CONTRACTOR SHALL ASSEMBLE AND INSTALL CITY FURNISHED BRIDGE ON CONTRACTOR CONSTRUCTED CONCRETE ABUTMENTS. CONTRACTOR SHALL CONSTRUCT BRIDGE DECK PER BRIDGE MANUFACTURER'S REQUIREMENTS. SHEETS C7.0 THROUGH C7.4 ARE PLANS FOR THE CITY FURNISHED BRIDGE. ALL REFERENCES TO (BY OTHERS) ON THESE SHEETS ARE THE CONTRACTOR'S RESPONSIBILITY.

SAFETY RAILS, HANDRAIL & TOERAIL NOT SHOWN IN ELEVATION FOR CLARITY. SEE BRIDGE SECTION FOR CORRECT NUMBER AND LOCATION

SPACING OF SAFETY RAIL PRODUCES OPENINGS OF LESS THAN 4" UP TO A MINIMUM HEIGHT OF 42" ABOVE THE DECK AND OPENINGS OF 8" OR LESS 42"-48" FROM DECK.

SHOP NOTE: MIDBAY SUPPORTS ARE REQUIRED FOR THE SAFETY SYSTEM. USE FLT 1 x 1/2.

BRIDGE ELEVATION



SCHEDULE OF MEMBERS

TOP CHORD	HSS 7 x 5 x 1/4
BOTTOM CHORD	HSS 6 x 4 x 1/4
VERTICAL	HSS 5 x 5 x 1/4
END VERTICAL	HSS 7 x 5 x 1/4
DIAGONAL	HSS 4 x 3 x 1/4 ①
BRACE DIAGONAL	HSS 3 x 3 x 1/4
FLOOR BEAM	W 8 x 21
SIDE DAM	C 6 x 4 x 1 x 10 GA.
END FLOOR BEAM	HSS 7 x 5 x 1/4 (STACKED)
RUB RAIL	C 4 x 1 x 10 GA. (R.F.)
TOE RAIL	C 4 x 1 x 10 GA. (R.F.)
SAFETY RAIL	L 1 1/4 x 1 1/4 x 1/8
DECK SUPPORT	L 3 x 3 x 1/4

① USE HSS 5 x 3 x 1/4 END 2 BAYS. TYP EACH END. DOUBLE MITER ALL DIAGONALS

CAUTION:

WE ARE PROVIDING STAY-IN-PLACE FORM DECKING TO ACCEPT A CONCRETE DECK ON THIS STRUCTURE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE CONTRACT DOCUMENTS. BE AWARE THAT MOST PEDESTRIAN BRIDGE LIABILITY CLAIMS ARE STATISTICALLY SLIP AND FALL CLAIMS. IT IS THE OWNER'S AND/OR THE CONCRETE INSTALLER'S RESPONSIBILITY TO PROVIDE A NON-SKID FINISH ON THE CONCRETE DECK. WE RECOMMEND, AS A MINIMUM, A ROUGHENED BROOM FINISH BE USED ON ALL DECK SURFACES.

REDUCED PLANS

CONTECH FABRICATION DRAWING



A-29709



ORIGINAL SCALE IN INCHES 1" = 10'-0"

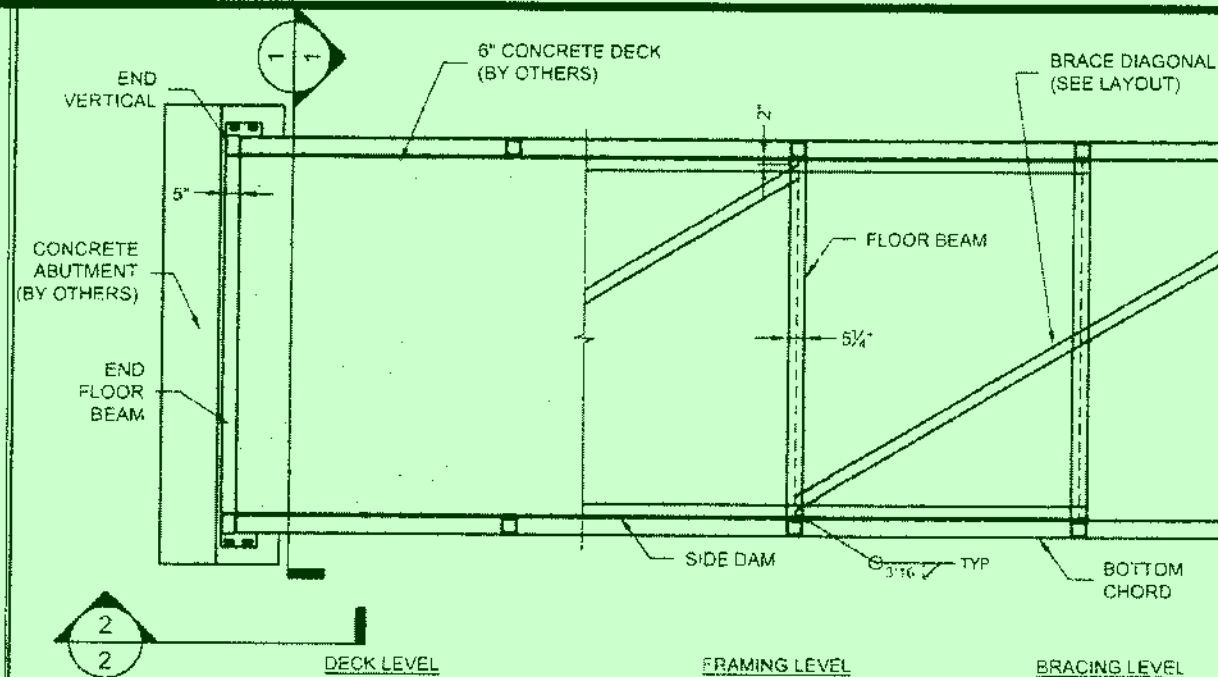
DESIGNED BY J. STOLL
DRAWN BY D. ZAITZ
CITY OF REDDING, RECORD DRAWING

CITY OF REDDING
PUBLIC WORKS DEPARTMENT

NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE
PEDESTRIAN BRIDGE (OWNER FURNISHED)

BID. NO. 5112
BID. SCH. NO. 5159

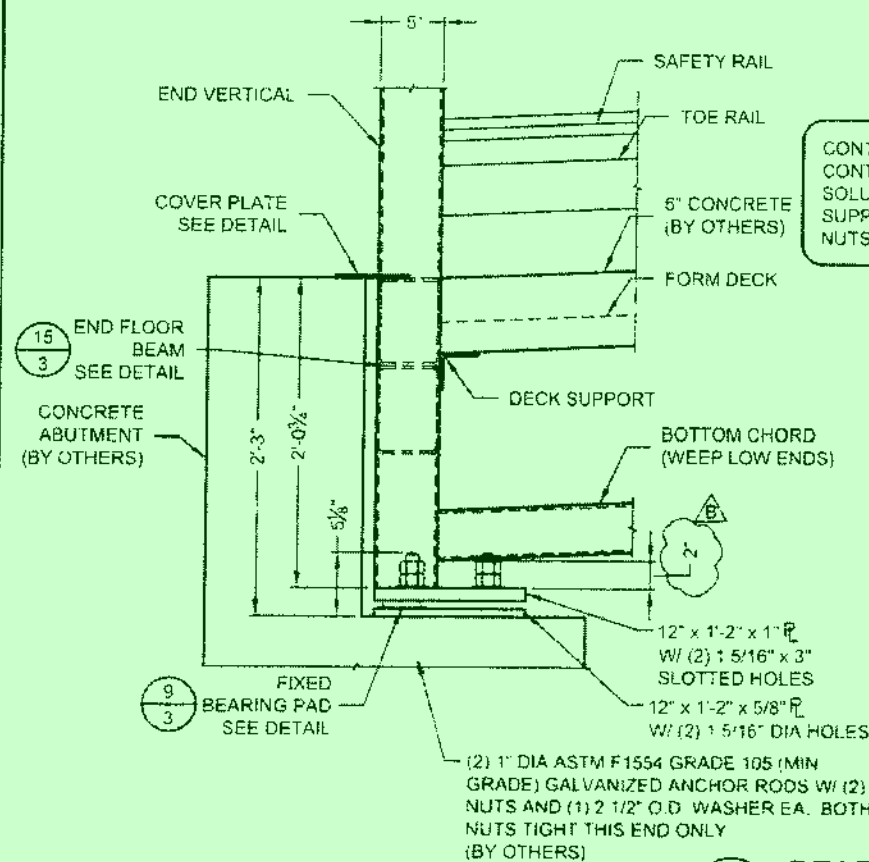
C7.0
ORIGINAL SCALE: AS SHOWN
DATE: 7/30/2020
SHEET OF



BRIDGE PLAN VIEW

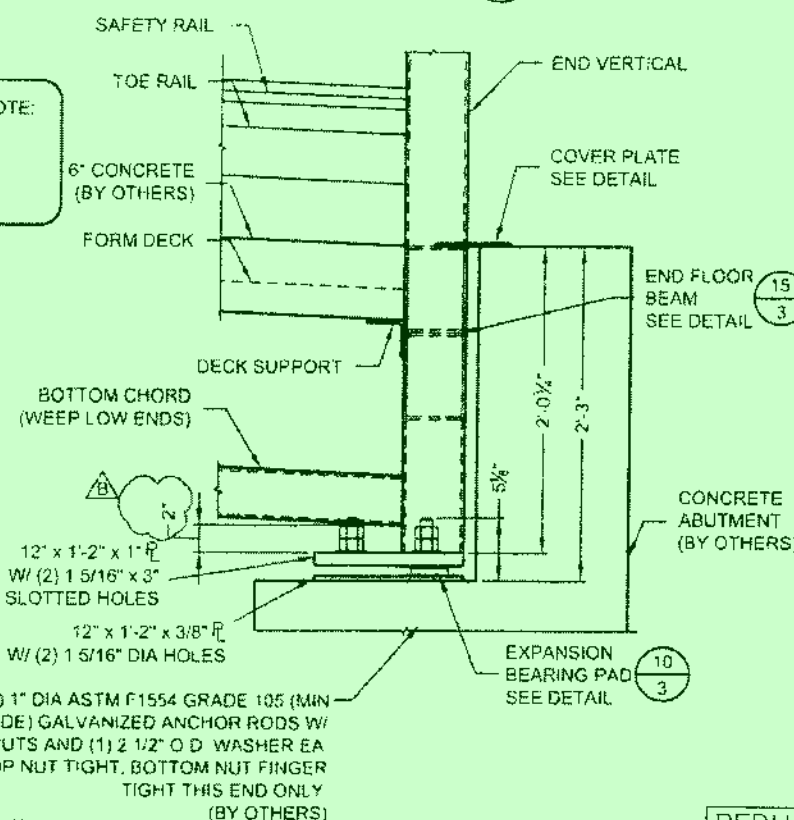


BRACE DIAGONAL LAYOUT

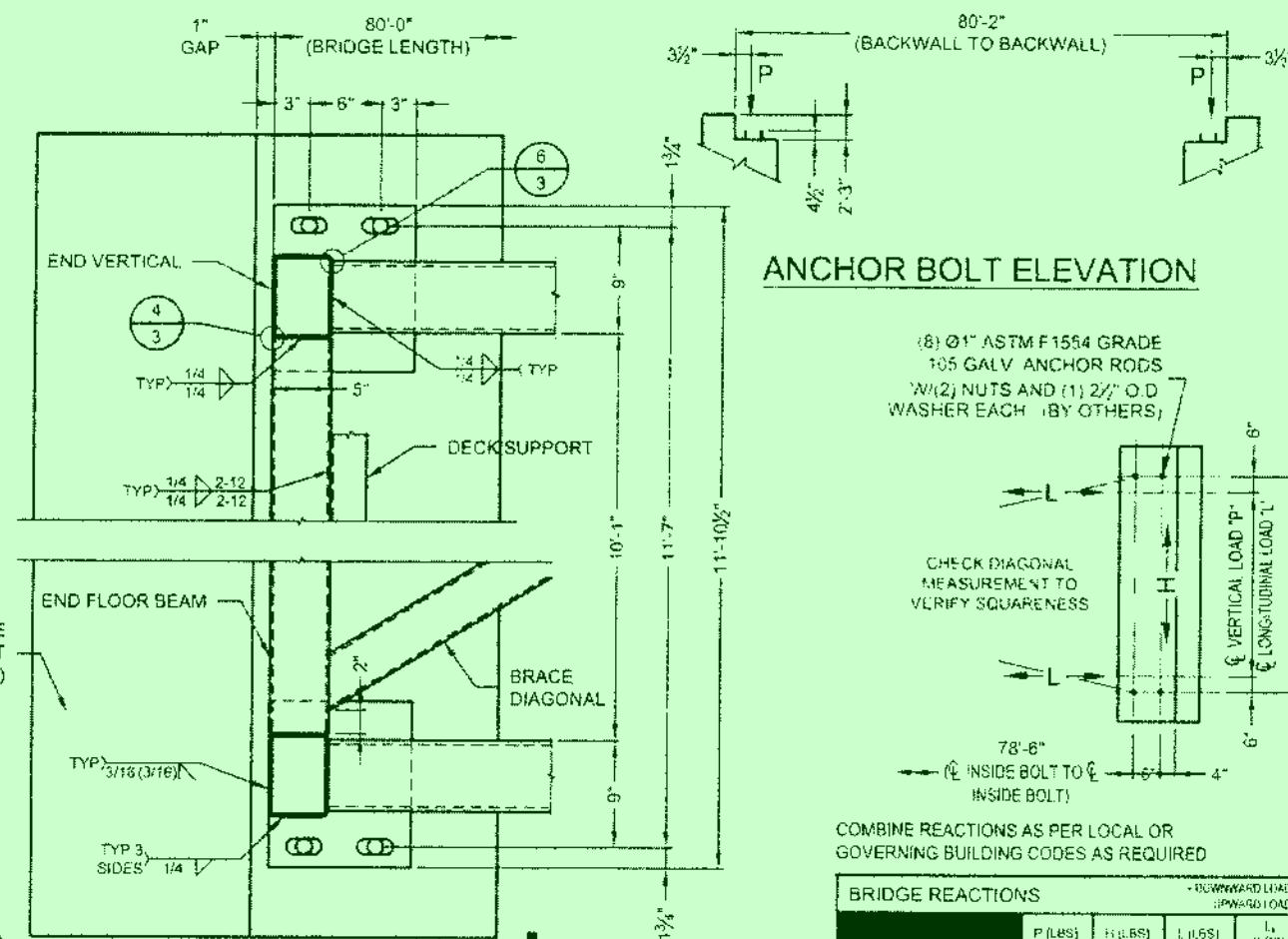


BEARING ELEVATION

CONTRACTOR/OWNER NOTE:
CONTECH ENGINEERED
SOLUTIONS DOES NOT
SUPPLY ANCHOR RODS,
NUTS OR WASHERS.



BEARING PLAN VIEW



ANCHOR BOLT ELEVATION

(8) Ø1" ASTM F1554 GRADE
105 GALV ANCHOR RODS
W/ (2) NUTS AND (1) 2 1/2" O.D.
WASHER EACH (BY OTHERS)

COMBINE REACTIONS AS PER LOCAL OR
GOVERNING BUILDING CODES AS REQUIRED

	BRIDGE REACTIONS			
	P (LBS)	H (LBS)	L (LBS)	L ₁ (LBS)
DEAD LOAD (2)	17,850			
UNIFORM LIVE LOAD	18,000			
SNOW LOAD	6,000			
VEHICLE LOAD	5,000			
WIND (UP/10 PSF)	6,800			
WIND (DOWN/10 PSF)	6,800			
WIND (UP/10 PSF)	43,295	8,925		
WIND (DOWN/10 PSF)	43,295	8,925		
THERMAL (2)			2,560	
SEISMIC	12,400	10,265		10,265

P = VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
H = HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
L = LONGITUDINAL THERMAL LOAD EACH BASE PLATE (4 PER BRIDGE)
L₁ = LONGITUDINAL SEISMIC LOAD EACH FIXED BASE PLATE (2 PER BRIDGE)

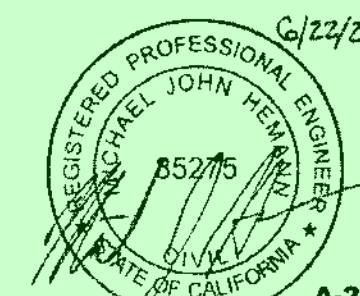
① BRIDGE LIFTING WEIGHT 21,000 LBS

② BRIDGE FINAL WEIGHT 58,200 LBS

③ DOES NOT INCLUDE WEIGHT OF CONCRETE DECK

④ INCLUDES WEIGHT OF CONCRETE DECK

SEISMIC NOTE:
THE SEISMIC REACTIONS HAVE BEEN
CALCULATED BASED ON A DESIGN SPECTRAL
ACCELERATION OF 0.301 X THE BRIDGE DEAD
LOAD ACTING BOTH HORIZONTALLY AND
LONGITUDINALLY. IT SHALL BE THE
RESPONSIBILITY OF THE FOUNDATION
ENGINEER TO DETERMINE THE FORCES FOR
FOUNDATION DESIGN, VERIFICATION OF THE
ANCHOR BOLT SIZES, AND ANCHOR BOLT
EMBEDMENTS IN THE FOUNDATION. THESE
FORCES ARE DETERMINED BASED ON LOCAL
SITE CONDITIONS, THE FOUNDATION SYSTEM
USED, AND THE TOTAL BRIDGE DEAD LOAD. IT
IS ASSUMED THAT THE ENTIRE
LONGITUDINAL SEISMIC LOAD IS CARRIED AT
THE FIXED END OF THE BRIDGE ONLY.



A-29710

REDUCED
PLANS

CONTECH
FABRICATION
DRAWING

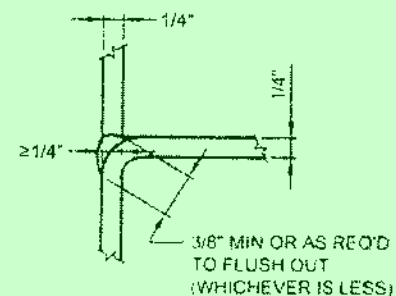


ORIGINAL SCALE:
AS SHOWN
DATE: 7/30/2020
SHEET OF

CITY OF REDDING
PUBLIC WORKS DEPARTMENT
NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE

JOB NO. 5112
BID SET NO. 5159
TYPICAL DETAILS

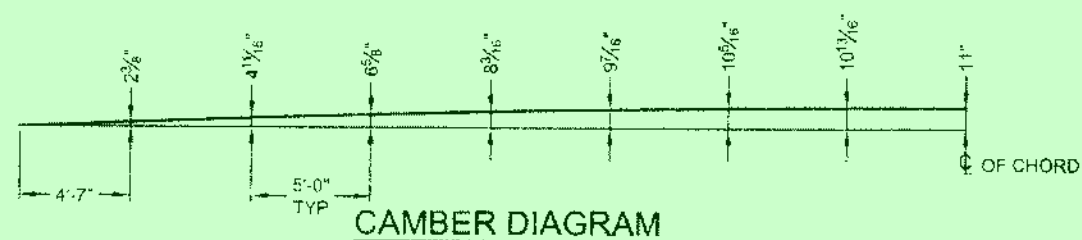
DESIGNED BY
J. STOLL
DRAWN BY
D. ZATZ
CITY OF REDDING RECORD DRAWING
DATE



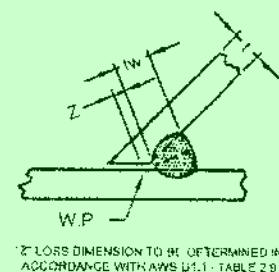
- MATCHED EDGES OF:
1. END FLOOR BEAM TO END VERTICALS
 2. TOP CHORD TO END VERTICAL
 3. HSS 5 x 3 x 1/4 DIAGONALS TO VERTICALS.

TO BE PARTIAL PENETRATION WELDS.

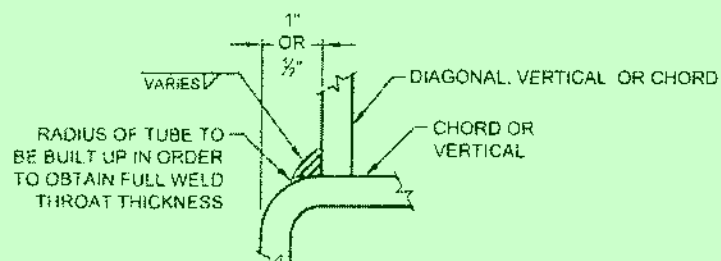
4 WELD DETAIL
1.3



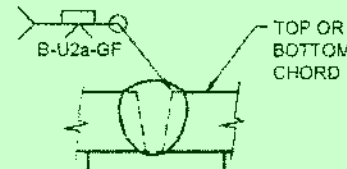
CAMBER DIAGRAM



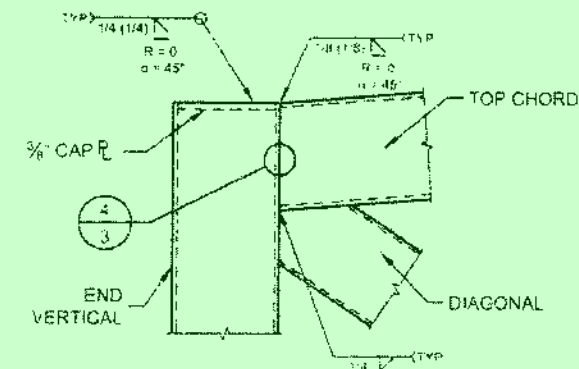
5 WELD DETAIL
1



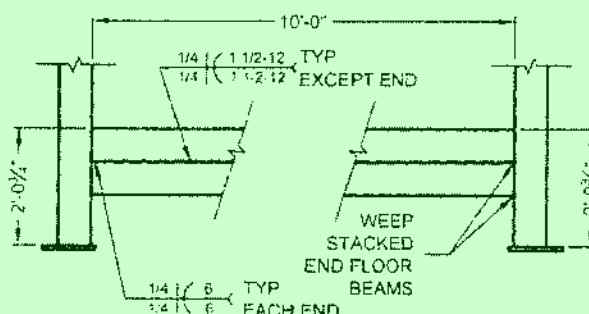
6 WELD DETAIL
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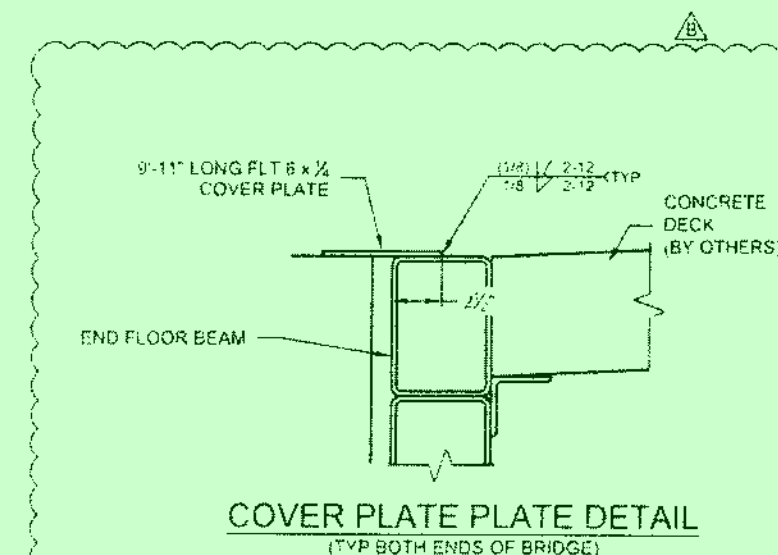
7 CHORD SHOP SPLICE
3



8 WELD DETAIL
1



15 END FLOOR BEAM DETAIL
2



COVER PLATE DETAIL
(TYP BOTH ENDS OF BRIDGE)

3" x 5" x 1/2" 90 DUROMETER FABRIC REINFORCED TYPE PF BEARING PAD BONDED TO 5" x 6" x 10 GA PLATE TACK WELDED TO TOP OF BOTTOM PLATE

3" x 5" x 1/2" TEFLON BONDED TO 3" x 5" x 1/2" 90 DUROMETER FABRIC REINFORCED TYPE PF BEARING PAD BONDED TO 4" x 6" x 10 GA PLATE TACK WELDED TO TOP OF BOTTOM PLATE

5" x 6" x 11 GA STAINLESS STEEL PLATE POLISHED ONE SIDE TACK WELDED TO BOTTOM OF TOP PLATE

BEARING PAD SPECIFICATIONS

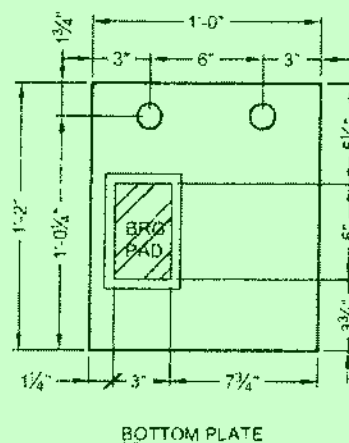
PREFORMED FABRIC REINFORCED ELASTOMERIC TYPE PF

PHYSICAL PROPERTIES:

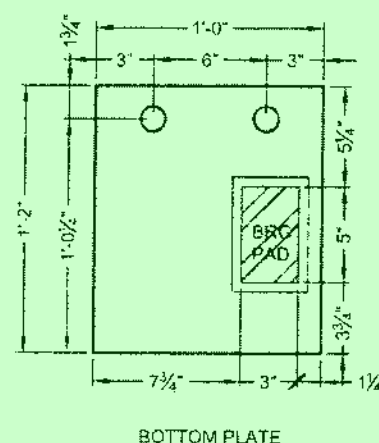
- ELASTOMER DUROMETER: 60±5 (SHORE A)
- FINISHED PAD DUROMETER: 90±5 (SHORE A)
- COMPRESSIVE STRENGTH: 18,000 PSI MAX
- MAXIMUM DESIGN PRESSURE: 1600 PSI
- AASHTO GRADE

GUIDE SPECIFICATIONS:

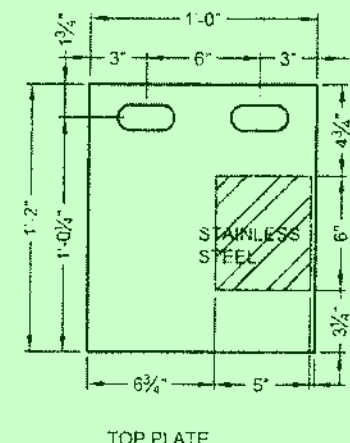
- MEETS DESIGN REQUIREMENTS OF AASHTO LRFD 2017
- COMPLIES WITH MIL-C882-E MILITARY SPECIFICATION AND P.C.I.



9 FIXED BEARING PAD DETAILS
2 (1) AS SHOWN (1) OPPOSITE



BOTTOM PLATE



TOP PLATE

10 EXP. BEARING PAD DETAILS
2 (1) AS SHOWN (1) OPPOSITE

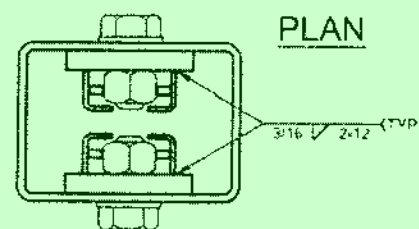
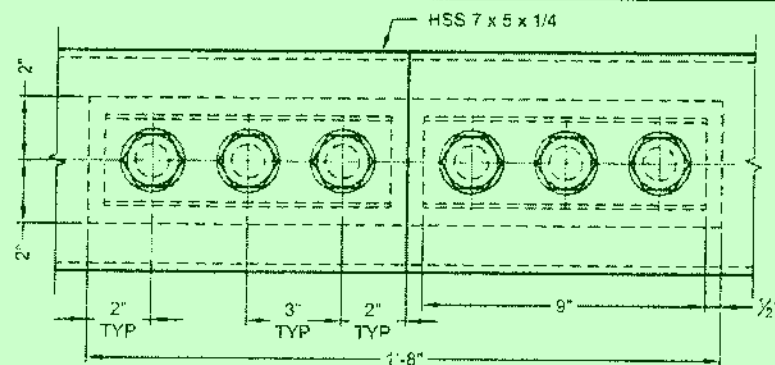
REDUCED PLANS

CONTECH FABRICATION DRAWING



A-29711



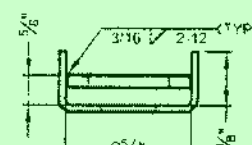


PLAN

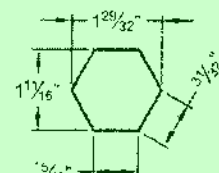
MATERIAL (PER SPLICE)

- (12) Ø1" x 2 1/4" LONG ASTM F3125 GRADE A325 T3 BOLTS, DH3 A563 NUTS & F436 T3 WASHERS
- (2) 4" x 5/8" x 1'-8" ASTM A588 PLATES
- (4) 2 9/16" x 1/4" x 9" ASTM A588 PLATES W/ HEX HOLES
- (4) 10 GA. x 9" LONG ASTM A606 ROLL FORMED CAPTURE PLATES

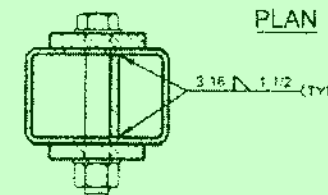
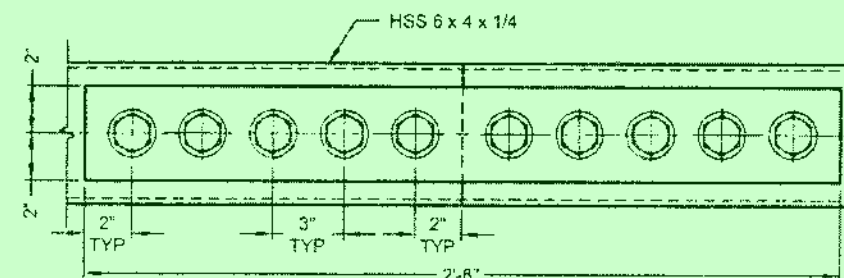
CHORD SPLICE ISOMETRIC
FOR REFERENCE ONLY, NTS



ROLL FORMED
CAPTURE PLATE DETAIL



HEX HOLE
DETAIL



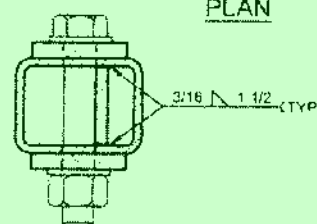
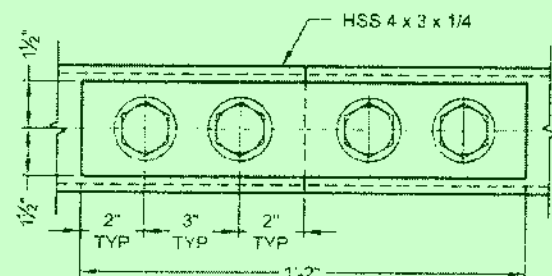
PLAN

MATERIAL (PER SPLICE)

- (10) Ø1" x 7" ASTM F3125 GRADE A325 T3 BOLTS W/ (1) DH3 A563 NUT & (2) F436 T3 WASHERS EA
- (2) 4" x 5/8" x 2'-8" ASTM A588 PLATES
- (2) 3 7/16" x 3/8" x 1'-4" ASTM A588 PLATES

12
1 BOTTOM CHORD SPLICE DETAIL

11
1 TOP CHORD SPLICE DETAIL



PLAN

MATERIAL (PER SPLICE)

- (4) Ø1" x 6" ASTM F3125 GRADE A325 T3 BOLTS W/ (1) DH3 A563 NUT & (2) F436 T3 WASHERS EA
- (2) 3" x 1/2" x 1'-2" ASTM A588 PLATES
- (2) 2 7/16" x 3/8" x 7" ASTM A588 PLATES

13
1 DIAGONALS SPLICE DETAIL

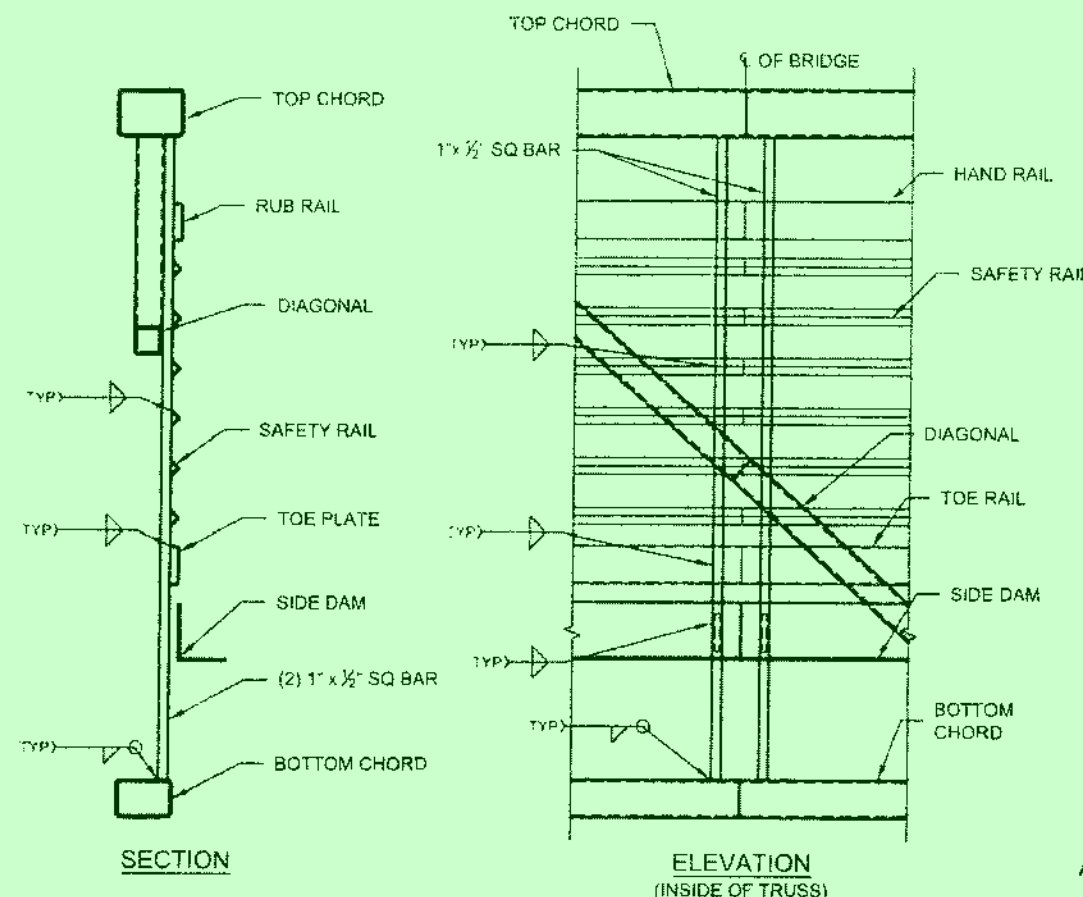
QUALITY ASSURANCE NOTES

1. WELD TESTING

- A. ALL WELD TESTING SHALL BE DONE BY A PERSON QUALIFIED IAW ASNT SNT-TC-1A
- B. ALL FULL PENETRATION WELDS IN THE CHORDS ARE TO BE ULTRASONICALLY TESTED IAW AWS SPECIFICATIONS
- C. ALL FILLET AND PARTIAL PENETRATION GROOVE WELDS SHALL BE VISUALLY INSPECTED WITH 10% ALSO BEING MAGNETIC PARTICLE TESTED IAW AWS SPECIFICATIONS
- D. A WRITTEN TESTING REPORT SHALL BE SUBMITTED UPON COMPLETION.

2. BUY AMERICA

- 3. CERTIFIED MILL REPORTS REQUIRED
- 4. CERTIFIED AISC SHOP REQUIRED
- 5. WELDER CERTIFICATIONS REQUIRED



SECTION

ELEVATION
(INSIDE OF TRUSS)

14
1 SAFETY SYSTEM SPLICE

CONTECH
FABRICATION
DRAWING



A-29712



CITY OF REDDING

PUBLIC WORKS DEPARTMENT

NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE

JOB NO. 5112

TYPICAL DETAILS

C7.3

ORIGINAL SCALE:
AS SHOWN
DATE: 7/30/2020
SHEET OF

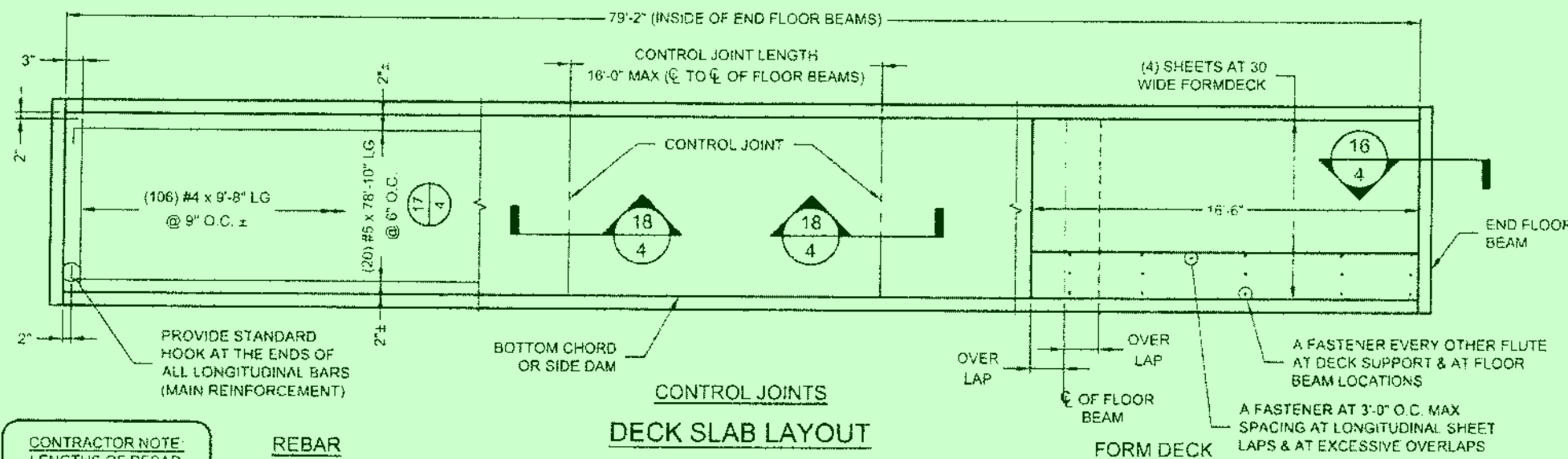
ORIGINAL SCALE IN INCHES

DESIGNED BY
J. STOLL

DRAWN BY
D. ZAITZ

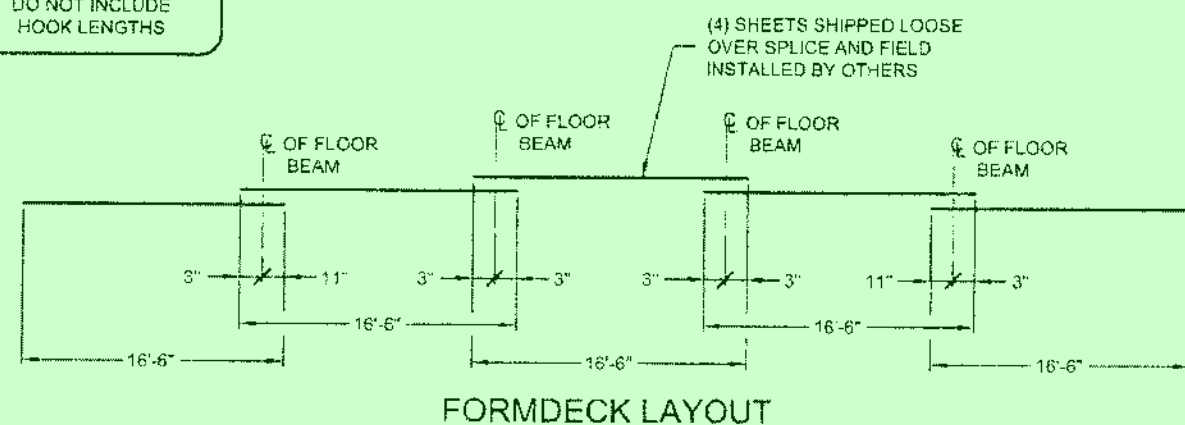
CITY OF REDDING RECORD DRAWING

DATE



CONTRACTOR NOTE:
LENGTHS OF REBAR
DO NOT INCLUDE
HOOK LENGTHS

REBAR



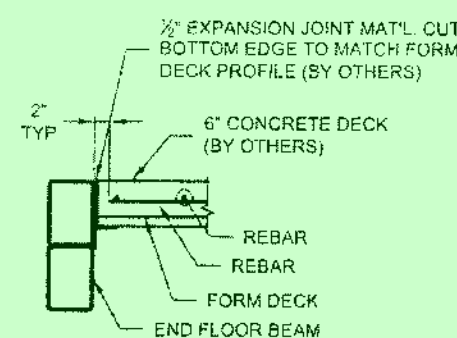
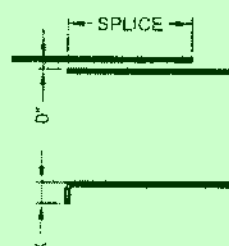
NOTE:
IF SPLICE IS REQUIRED IN LONGITUDINAL
REBARS, LAP SPLICE LENGTH WILL BE AS
SHOWN. STAGGER SPLICED REBAR EVERY
OTHER LONGITUDINAL BAR AND LOCATE AT
1/4 DISTANCE BETWEEN FLOOR BEAMS.

LENGTH (INCHES)		
BAR SIZE	HOOK X	SPLICE
#3	6"	20"
#4	8"	27"
#5	9"	33"
#6	11"	40"

THE TABLES SHOWN ARE FOR $f_c = 3,500$
PSI (MINIMUM) AND $f_y = 60,000$ PSI

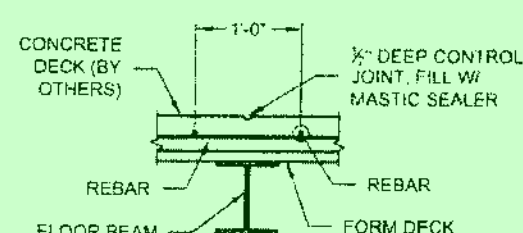
STANDARD SPLICE AND HOOK LENGTH DETAILS

NORMAL WEIGHT CONCRETE (145 PCF)



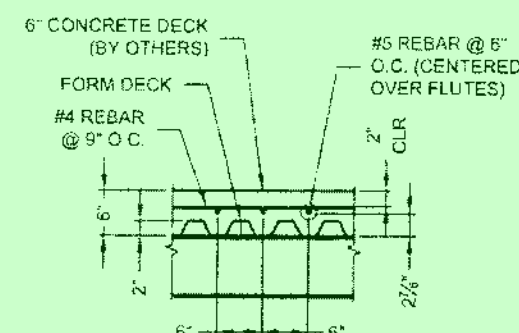
16 EXPANSION JOINT

5



18 CONTROL JOINT

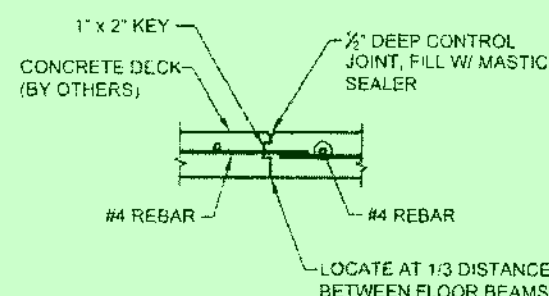
5



17 TYP SLAB REINFORCEMENT DETAIL

5

$f_c = 3,500$ PSI (MINIMUM 28 DAY STRENGTH)
GRADE 60 REINFORCING ($f_y = 60,000$ PSI)



CONSTRUCTION JOINT DETAIL

(AS REQUIRED)

DECK & CONCRETE NOTES

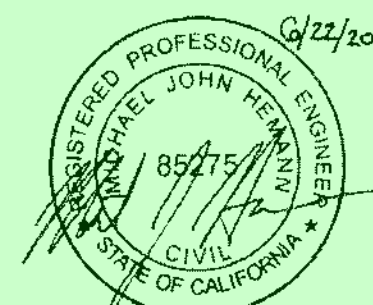
- 1 GALVANIZED FLOOR DECK SHALL BE CAN-AM UF2X 20 GA. FLOOR DECK WILL BE SHOP ATTACHED TO FLOOR BEAMS WITH #12-24 X 1 1/4" SELF-DRILLING FASTENERS WITH 1" O.D. WASHERS OR 1" X 3/16" POWDER ACTUATED FASTENERS
- 2 BAR REINFORCEMENT SHALL BE GRADE 60 MINIMUM AND CONFORM TO THE REQUIREMENTS OF ASTM A 615.
- 3 CONCRETE DECK AND REINFORCING TO BE AS SHOWN ON DRAWINGS AND TO BE FURNISHED AND INSTALLED BY OTHERS. THE COMPRESSIVE STRENGTH OF THE CONCRETE (f_c) MUST BE A MINIMUM OF 3,500 PSI (28 DAY STRENGTH). BRIDGE IS DESIGNED FOR REGULAR WEIGHT (150 PCF) CONCRETE WITH A MAXIMUM AGGREGATE SIZE OF 3/4" INSTALL BRIDGE PRIOR TO POURING CONCRETE
- 4 CONCRETE COVER OF 2" ABOVE TRANSVERSE REINFORCEMENT SHALL BE STRICTLY MAINTAINED.
- 5 CONCRETE DESIGN, QUALITY, MIXING, AND PLACING SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318 AND SPECIFICATIONS FOR STRUCTURAL CONCRETE ACI 301.
- 6 COMPRESSION TEST SPECIMENS SHALL BE TAKEN DURING CONSTRUCTION TO INSURE COMPLIANCE WITH CONCRETE STRENGTH REQUIREMENTS. EVALUATION AND ACCEPTANCE OF THE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318. ALL CONCRETE WHICH FAILS TO MEET THE ACI REQUIREMENTS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE COST OF THE CONTRACTOR.
- 7 THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE POURING THE SLAB. SPANS MUST BE PLANKED OR OTHERWISE PROTECTED AGAINST DAMAGE FROM WORKERS WALKING ON THE MATERIAL. CONSTRUCTION TRAFFIC AND CONCRETE PLACING EQUIPMENT.

THESE SPECIFICATIONS SHALL BE THE MINIMUM REQUIREMENTS FOR THE BRIDGE DECK SLAB. MORE STRINGENT REQUIREMENTS SPECIFIED BY LOCAL GOVERNING BODIES MAY BE APPLICABLE.

CAUTION:

WE ARE PROVIDING STAY-IN-PLACE FORM DECKING TO ACCEPT A CONCRETE DECK ON THIS STRUCTURE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE CONTRACT DOCUMENTS. BE AWARE THAT MOST PEDESTRIAN BRIDGE LIABILITY CLAIMS ARE STATISTICALLY SLIP AND FALL CLAIMS. IT IS THE OWNER'S AND/OR THE CONCRETE INSTALLER'S RESPONSIBILITY TO PROVIDE A NON-SKID FINISH ON THE CONCRETE DECK. WE RECOMMEND, AS A MINIMUM, A ROUGHENED BROOM FINISH BE USED ON ALL DECK SURFACES.

REDUCED
PLANS



A-29713



CONTECH
FABRICATION
DRAWING

ORIGINAL SCALE IN INCHES
0 1 2 3 4 5 6 7 8 9 10

DESIGNED BY J. STOLL
DRAWN BY D. ZAITZ

CITY OF REDDING RECORD DRAWING

CITY OF REDDING
PUBLIC WORKS DEPARTMENT

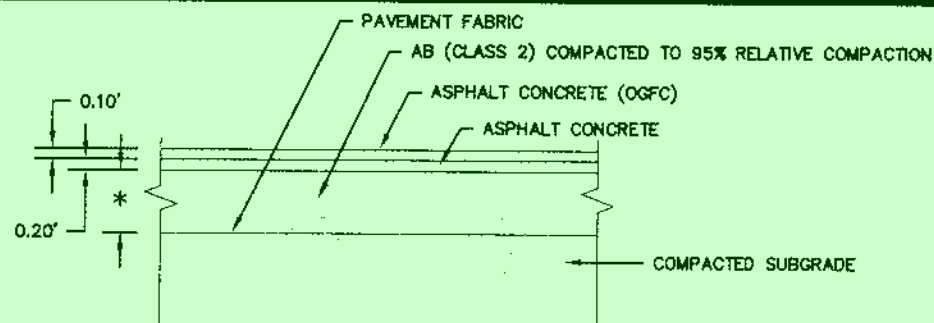
NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE

JOB NO. 5112
BID NO. 5159
TYPICAL DETAILS

C7.4

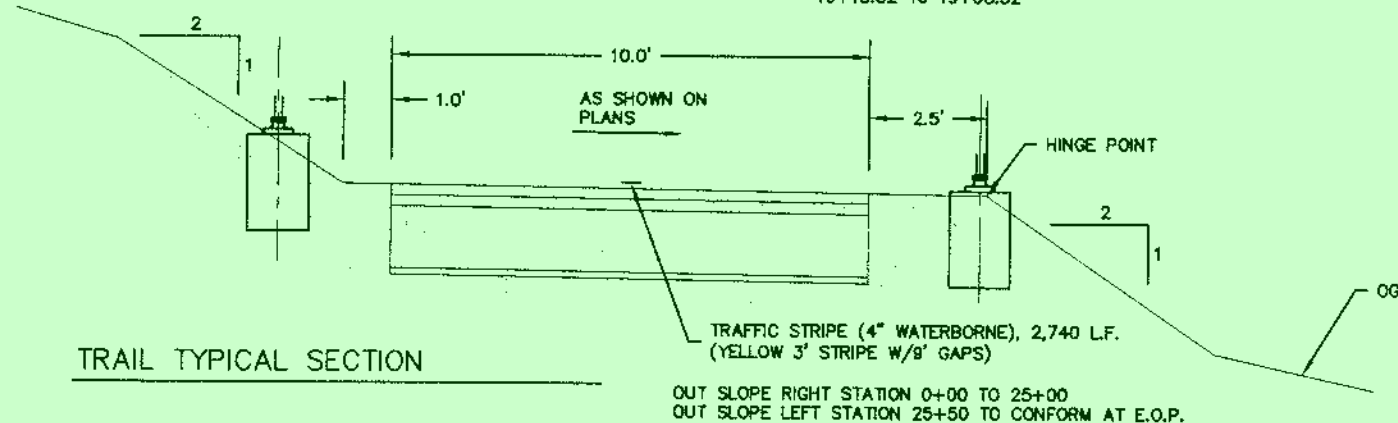
ORIGINAL SCALE:
AS SHOWN

DATE: 7/30/2020
SHEET OF

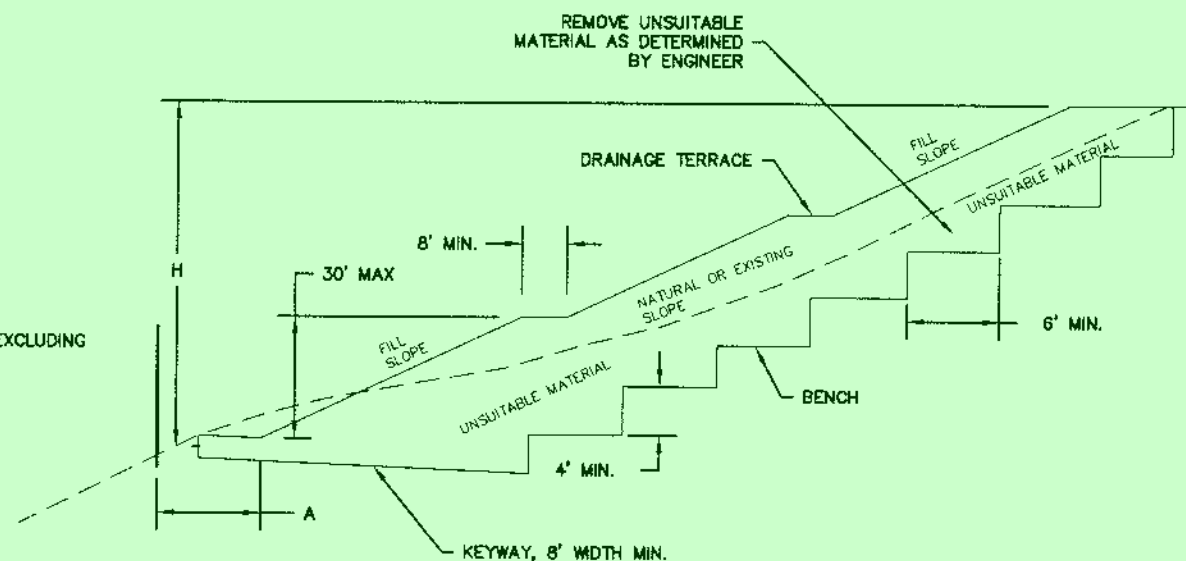


TRAIL STRUCTURAL SECTION

* 0.9' AB (CLASS 2) VEHICLE SECTION STATION 0+00 TO 14+21.51
 * 0.33' AB (CLASS 2) PEDESTRIAN SECTION STATION 15+03.51 TO 27+26.71, EXCLUDING 19+18.32 TO 19+68.32



TRAIL TYPICAL SECTION



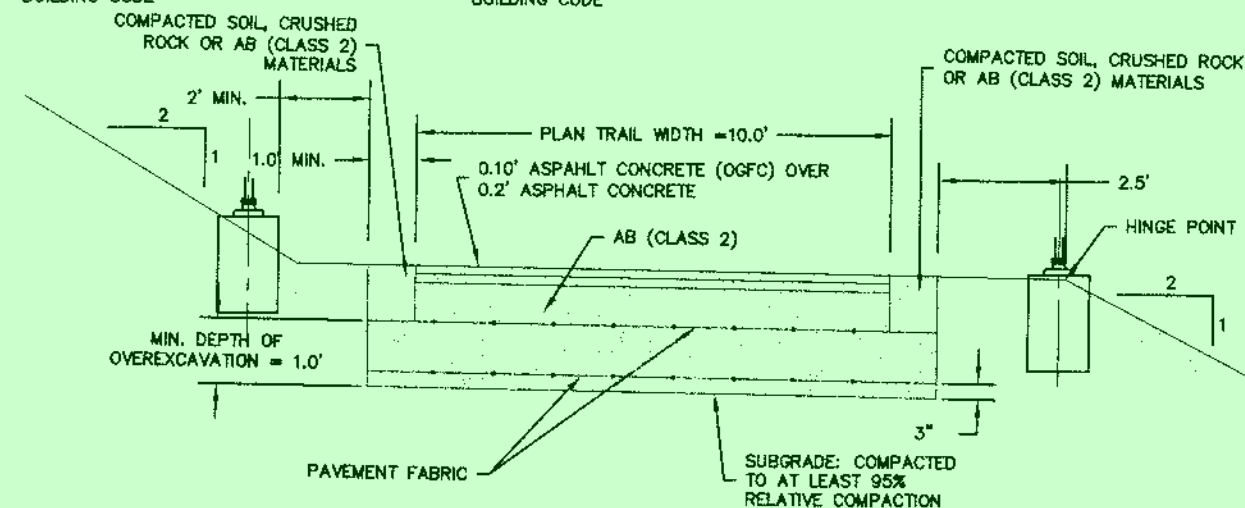
BENCHING DETAIL - RT OF STA 24+10 TO 24+80

DRAINAGE TERRACES	
H (FT)	WIDTH (MIN.)
0-80	6'
80-120	6' WITH ONE 12' WIDE AT MIDSLOPE
>120	DESIGNED BY PROJECT ENGINEER

PER APPENDIX J OF 2018 CALIFORNIA BUILDING CODE

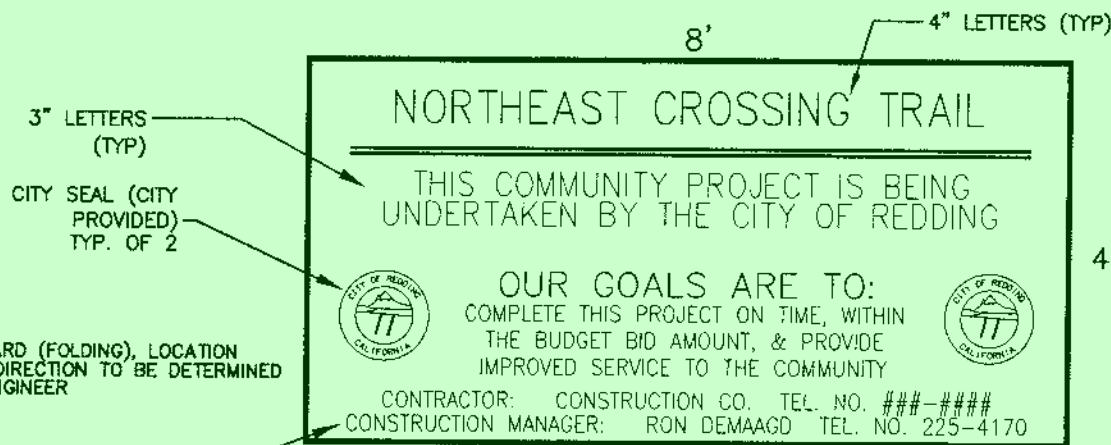
DIMENSION TABLE		
H	A	B
HEIGHT, IF <5' NO KEYWAY REQUIRED	H/5 2' MIN., 20' MAX.	H/5 2' MIN., 10' MAX.

PER APPENDIX J OF 2018 CALIFORNIA BUILDING CODE



TRAIL TYPICAL SECTION - STA 22+50 TO 24+50

REDUCED PLANS

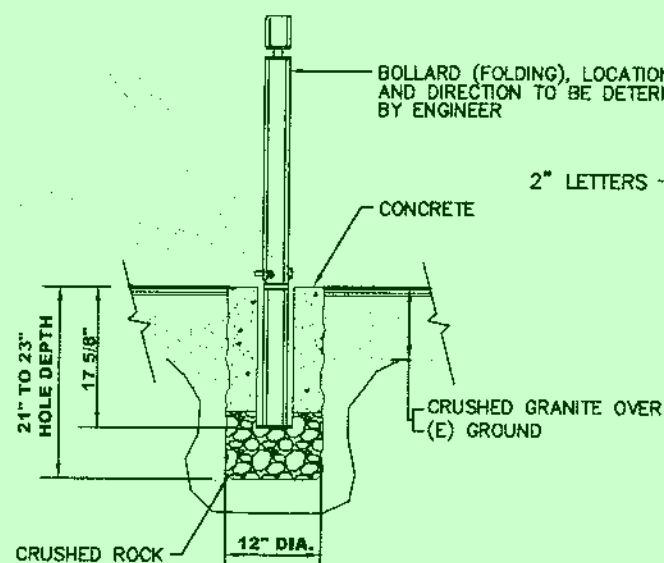


NOTE:

- 1) EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER
- 2) SIGN PANEL SHALL BE 3/4" EXTERIOR GRADE PLYWOOD OR CITY APPROVED EQUAL
- 3) SPACE BETWEEN LINES AS INDICATED
- 4) CUT VINYL BLACK LETTERING WITH A BLACK EDGE BORDER ON WHITE BACKGROUND
- 5) MOUNT SIGN ON 2-4"x6" WOOD POSTS

PROJECT FUNDING SIGN

EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER



BOLLARD (FOLDING) DETAIL
 NTS

1. MINIMUM OVEREXCAVATION DEPTH SHOULD BE 12 INCHES BELOW PROPOSED STRUCTURAL TRAIL SECTION.
2. MINIMUM HORIZONTAL EXTENT OF OVEREXCAVATION SHOULD BE 12 INCHES FROM EDGE OF PLANNED STABILIZED SAND/CRUSHED ROCK.
3. ALL AGGREGATE BASE MATERIALS SHOULD CONFORM TO CALTRANS SPECIFICATIONS, PER PAGE 100 OF THE CITY OF REDDING CONSTRUCTION STANDARDS (2015).
4. COMPACTION OF ALL AGGREGATE BASE MATERIALS SHOULD BE A MINIMUM OF 95 PERCENT RELATIVE COMPACTION IN ACCORDANCE WITH PAGE 601 OF THE CITY OF REDDING CONSTRUCTION STANDARDS (2015).
5. GEOTEXTILE MATERIALS SHOULD BE TENSAR BX-1100 OR TRIAX 246, OR APPROVED EQUAL.

ORIGINAL SCALE IN INCHES 1" = 10'

DESIGNED BY J. STOLL
 DRAWN BY D. ZATZ
 CITY OF REDDING RECORD DRAWING

DATE: 7/30/2020

CITY OF REDDING
 PUBLIC WORKS DEPARTMENT

NORTHEAST CROSSING TRAIL
 PROJECT - PHASE ONE

TYPICAL DETAILS

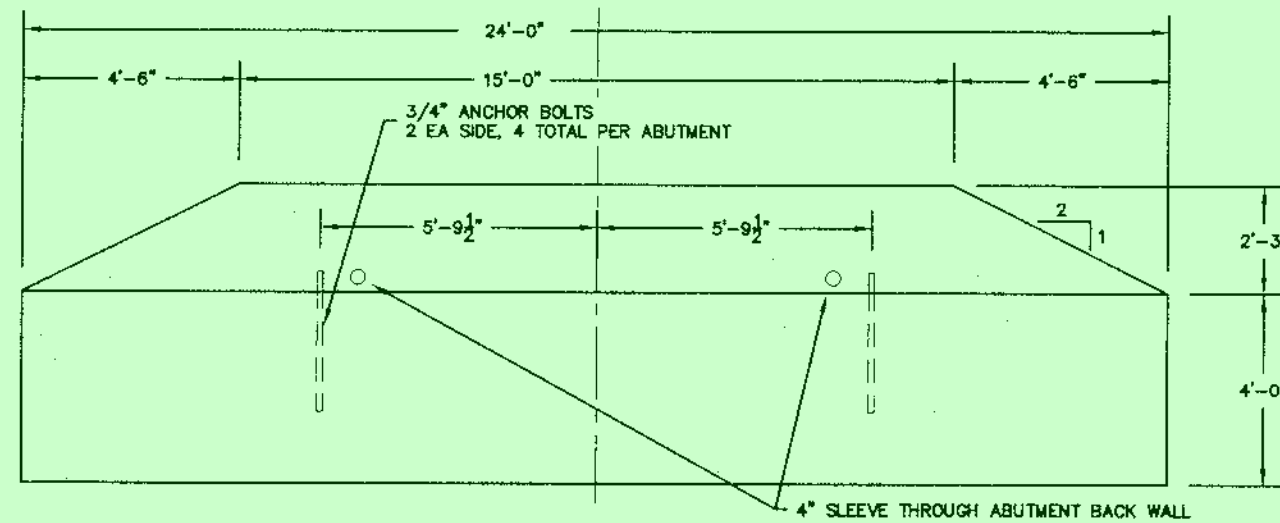
JOB NO. 5112
 BID NO. 5159

C8.0

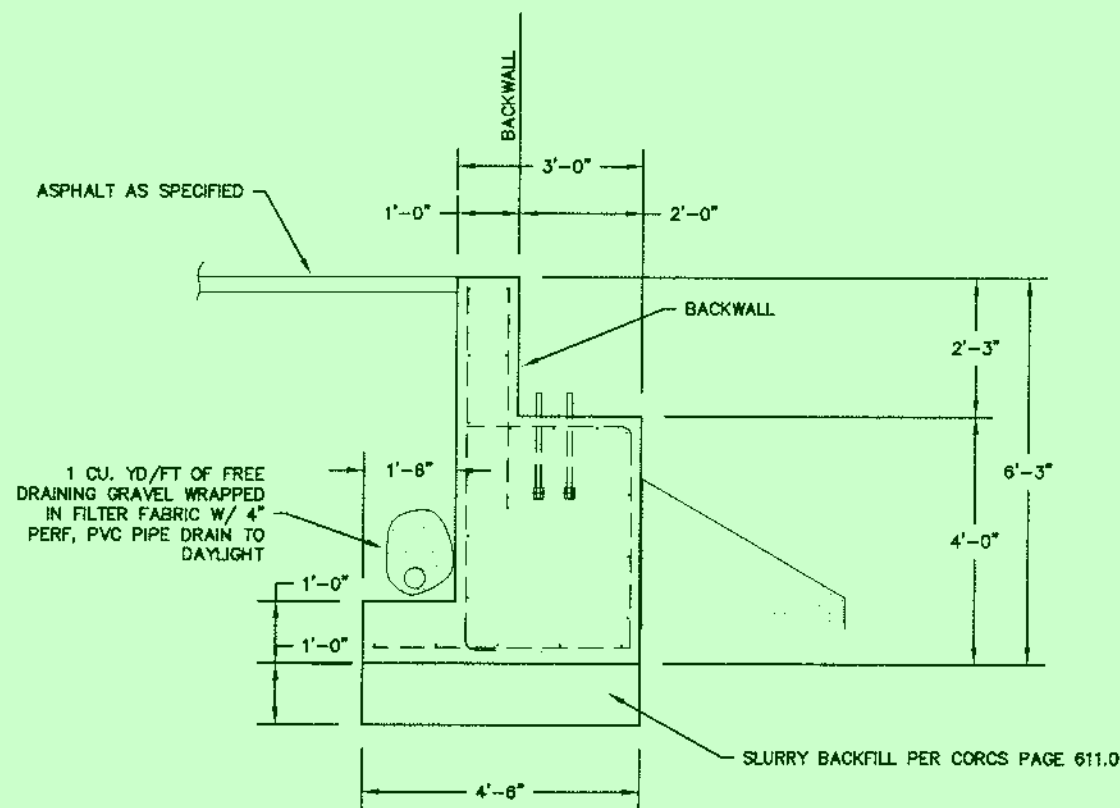
ORIGINAL SCALE: AS SHOWN

DATE: 7/30/2020

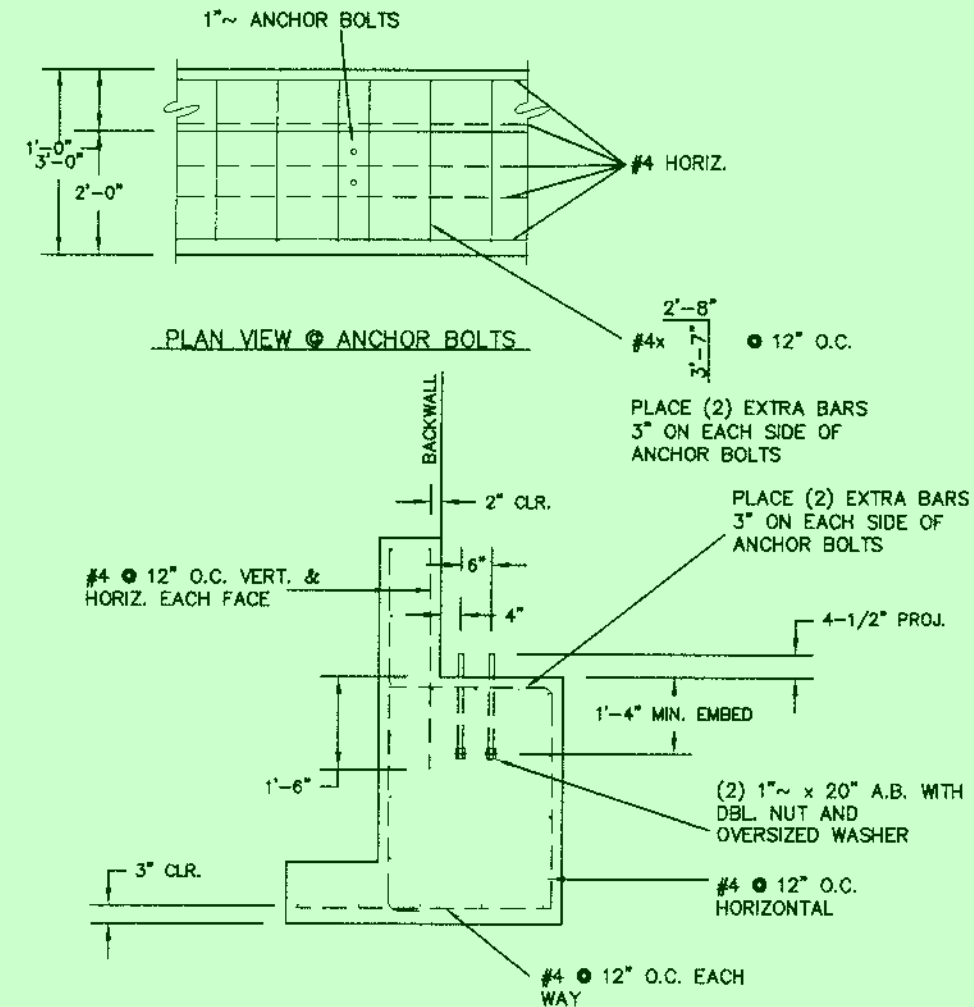
SHEET OF



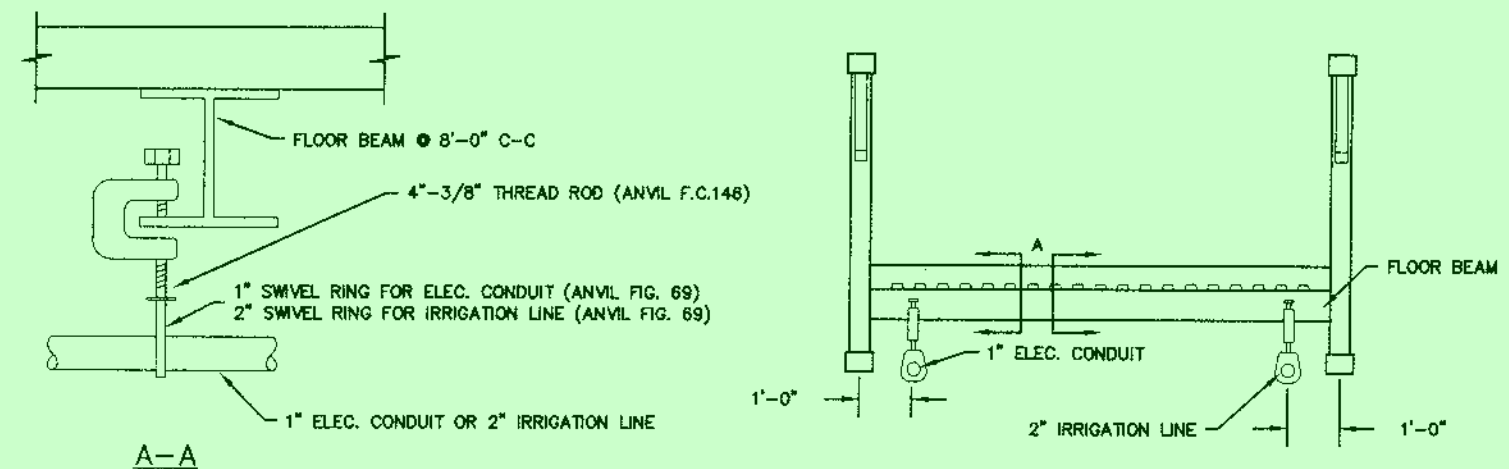
BRIDGE ABUTMENT - SECTION



BRIDGE ABUTMENT DETAIL



BRIDGE ABUTMENT REINFORCEMENT

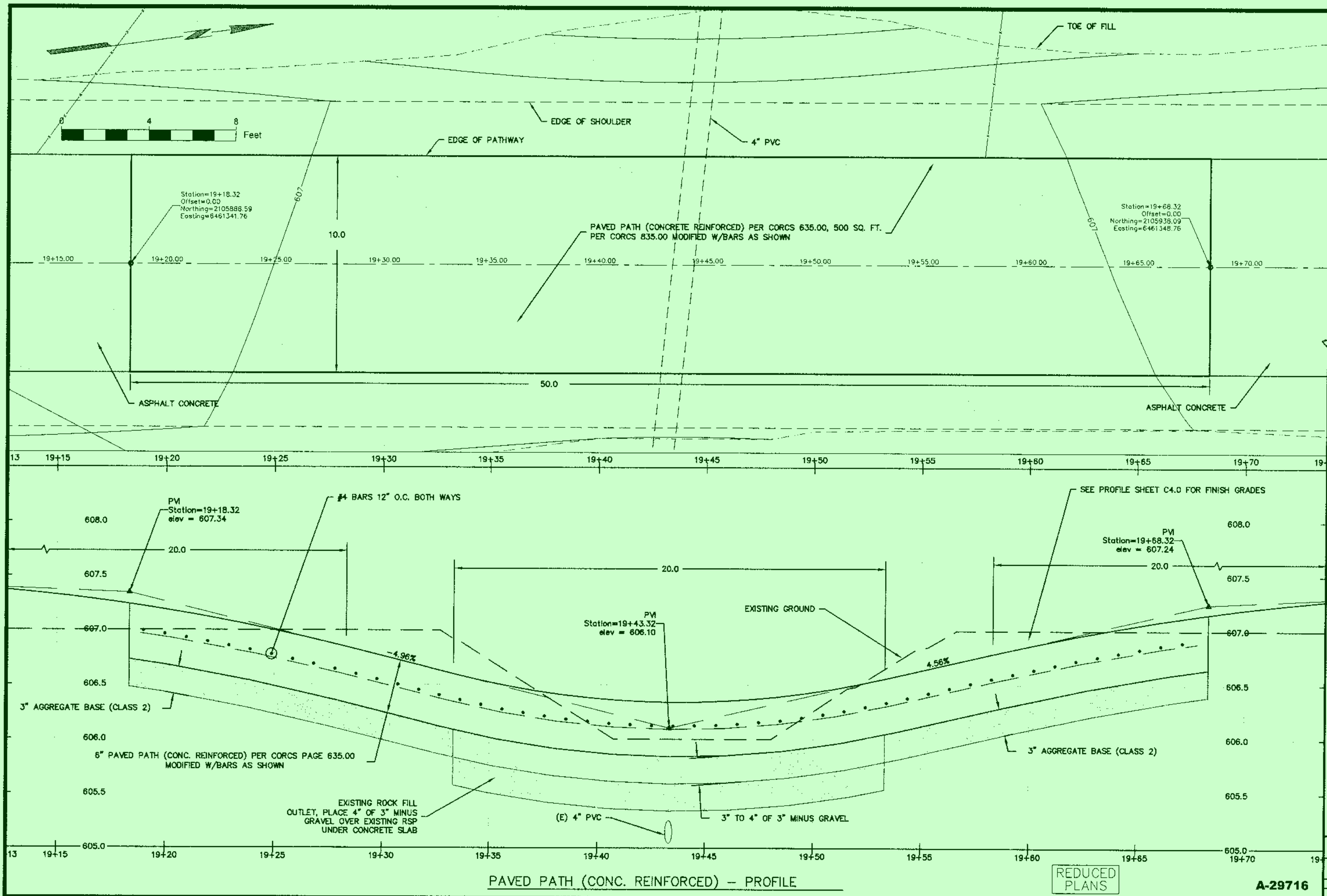


PEDESTRIAN BRIDGE UTILITY CONNECTION

REDUCED
PLANS

ORIGINAL SCALE IN INCHES 1" = 1'-0"	
DESIGNED BY J. STOLL	DRAWN BY D. ZAITZ
CITY OF REDDING RECORD DRAWING	
DATE: 7/30/2020	
PROJECT ENGINEER	
CITY OF REDDING PUBLIC WORKS DEPARTMENT	
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE	
JOB NO. 5112	ADJ. SCH. NO. 5159
TYPICAL DETAILS	
C8.1	
ORIGINAL SCALE: AS SHOWN	
DATE: 7/30/2020	
SHEET OF	

A-29715



PAVED PATH (CONC. REINFORCED) - PROFILE

REDUCED
PLANS

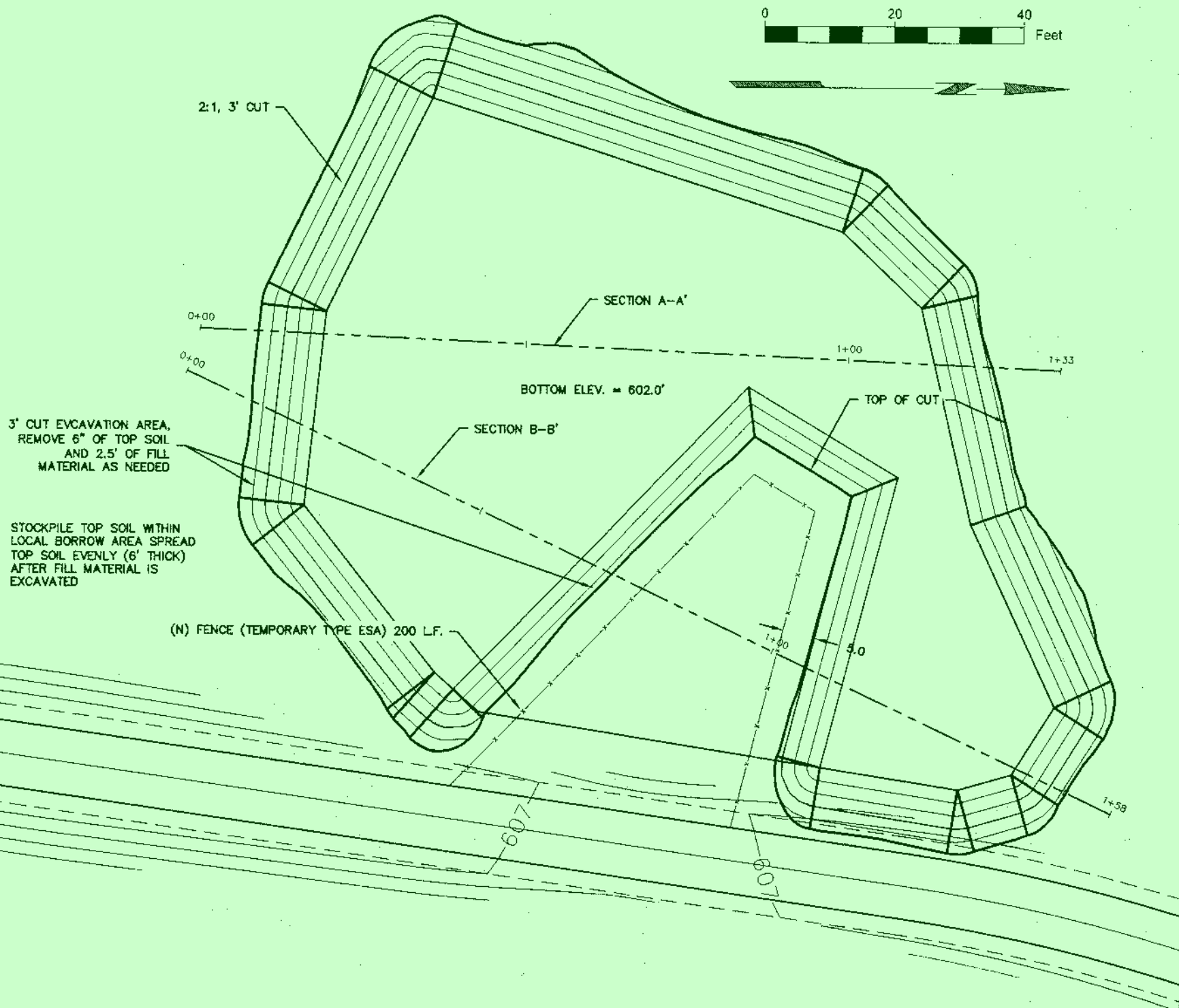
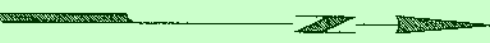
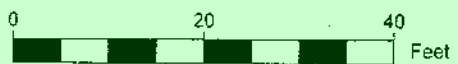
A-29716

ORIGINAL SCALE IN INCHES 1" = 20'	
DESIGNED BY J. STOLL	DRAWN BY D. ZAITZ
CITY OF REDDING RECORD DRAWING	
DATE	
CITY OF REDDING PUBLIC WORKS DEPARTMENT	
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE	
TYPICAL DETAILS	
C9.0	
ORIGINAL SCALE: AS SHOWN	
DATE: 7/30/2020	
SHEET OF	

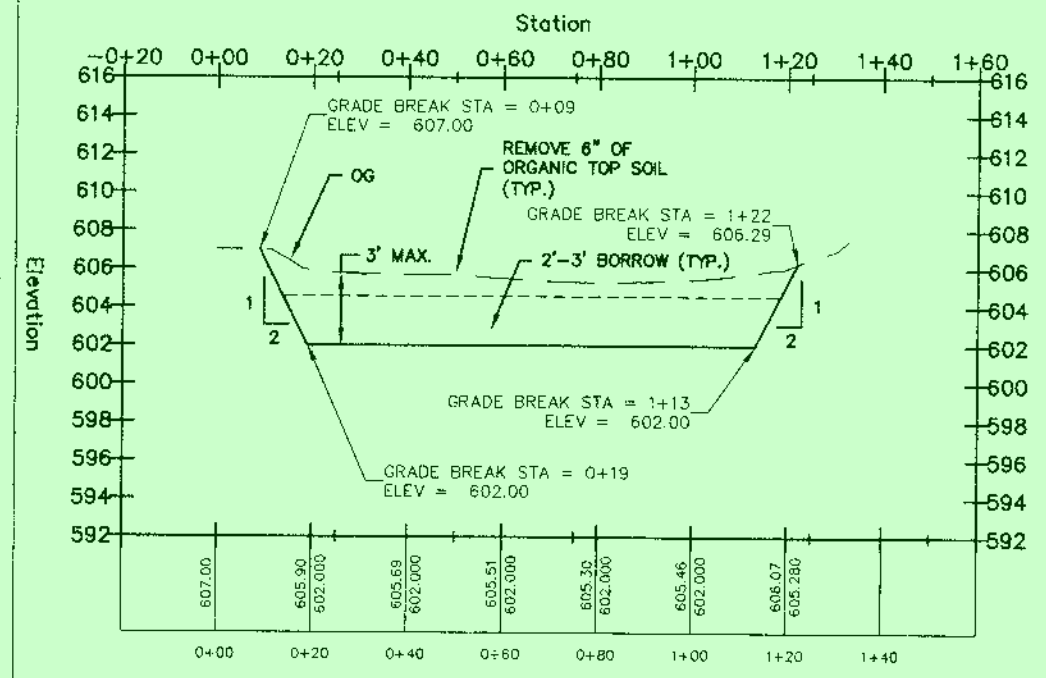
LOCAL BORROW AREA

Cut/Fill Summary

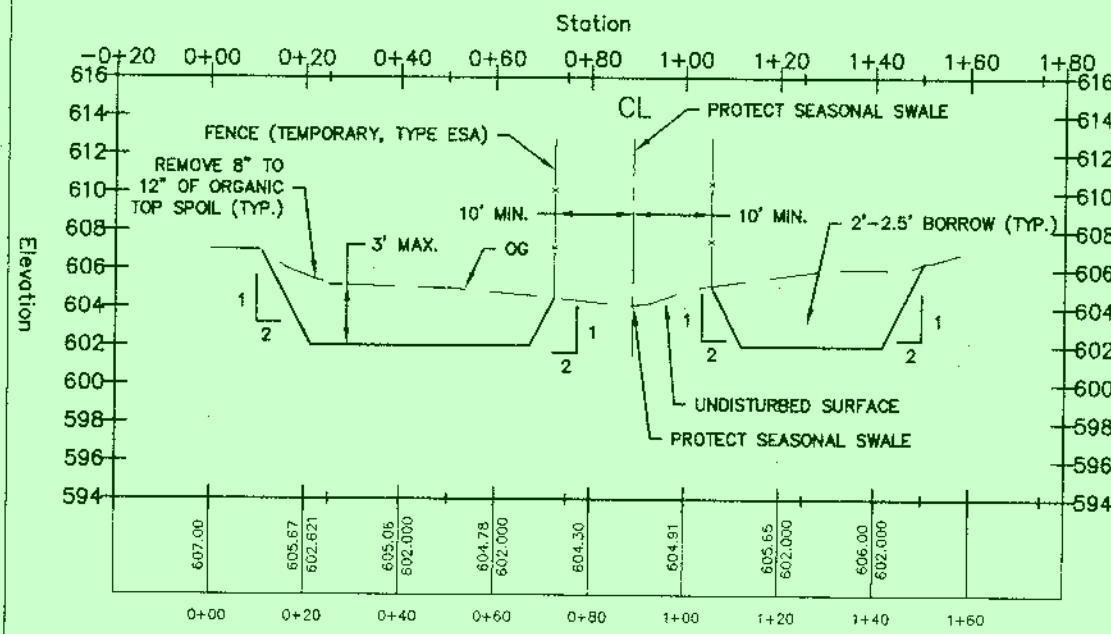
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
volume	1.000	1.000	12117 Sq. Ft.	1,074 Cu. Yd.	33 Cu. Yd.	1,041 Cu. Yd.<Cut>



Section A-A PROFILE



Section B-B PROFILE



REDUCED
PLANS

A-29717

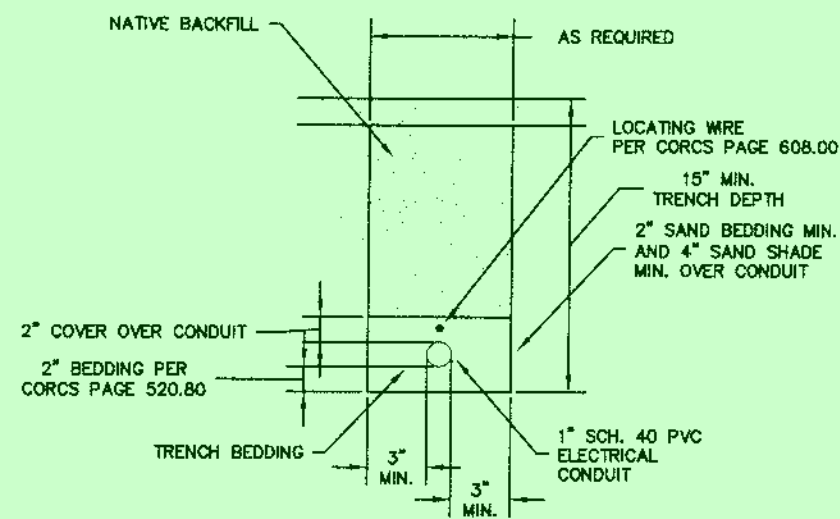
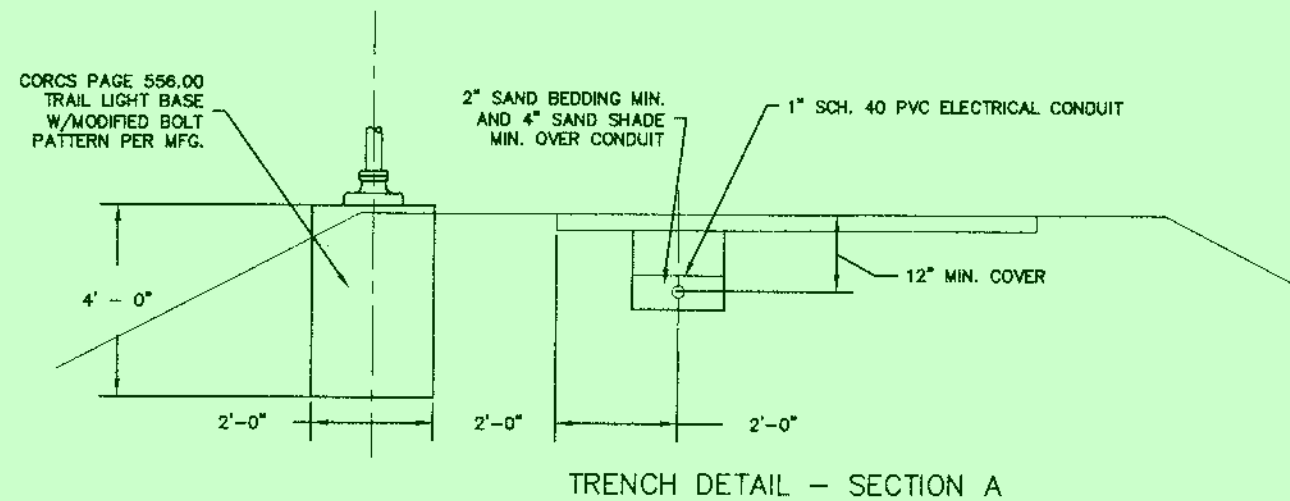
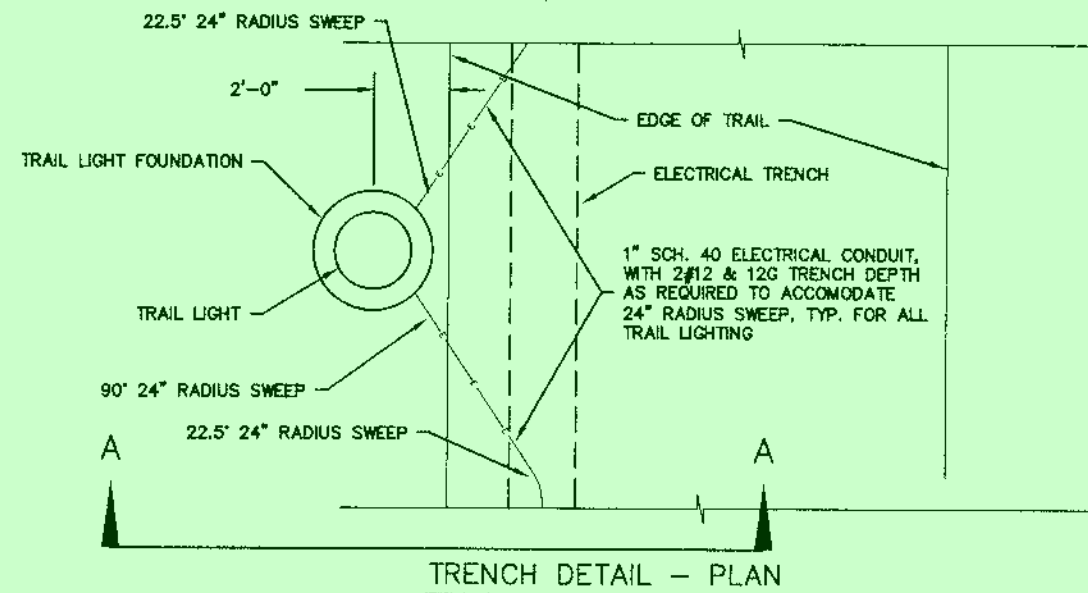
ORIGINAL SCALE IN INCHES
0 1 2

DESIGNED BY: J. STOLL
DRAWN BY: D. ZAITZ
DATE: 7/30/2020
PROJECT ENGINEER: [Signature]

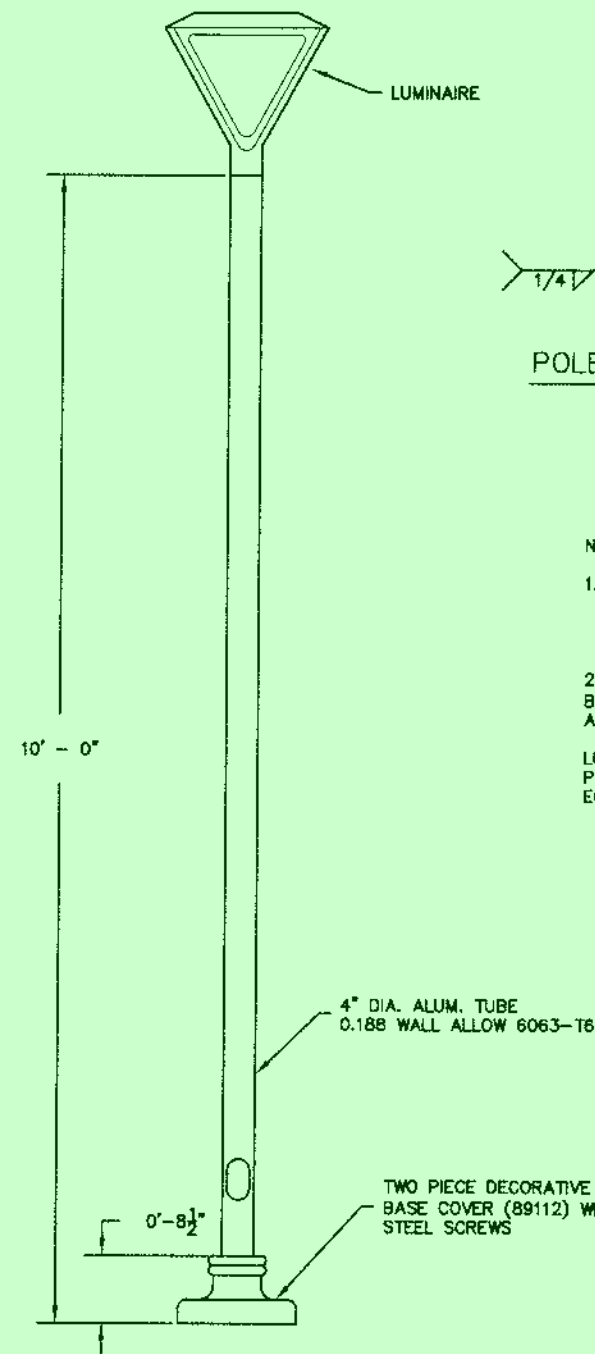
CITY OF REDDING
PUBLIC WORKS DEPARTMENT

NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE
JOB NO. 5112
BID SCH. NO. 5159
BORROW AREA GRADING

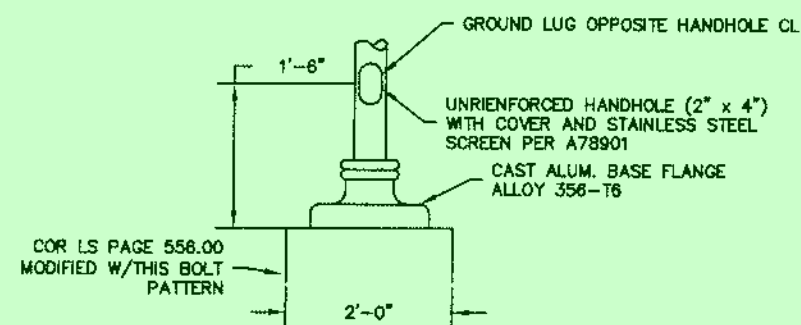
C9.1
ORIGINAL SCALE:
AS SHOWN
DATE: 7/30/2020
SHEET OF



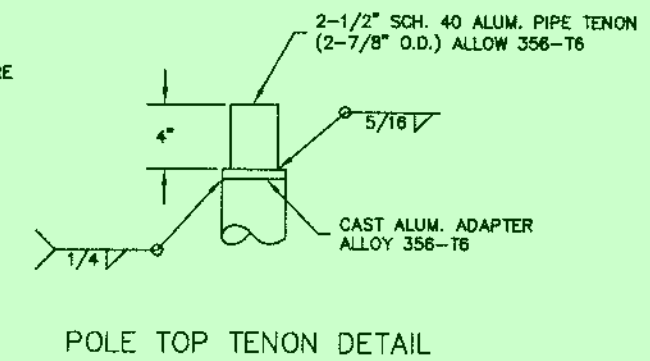
TRENCH DETAIL - TYP. SECTION



LIGHT POLE DETAIL

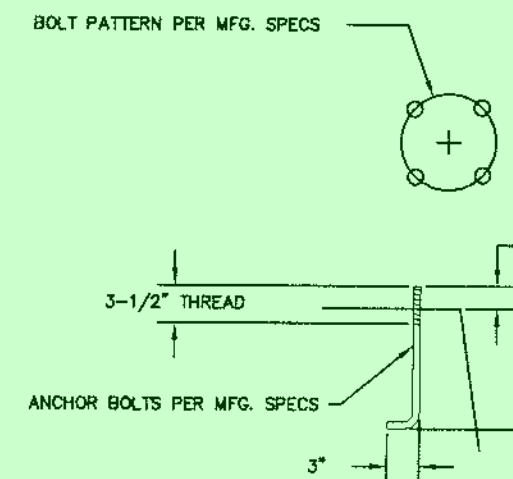


TRAIL LIGHT BASE DETAIL (STD. BASE AND LUMINAIRE)



NOTE:

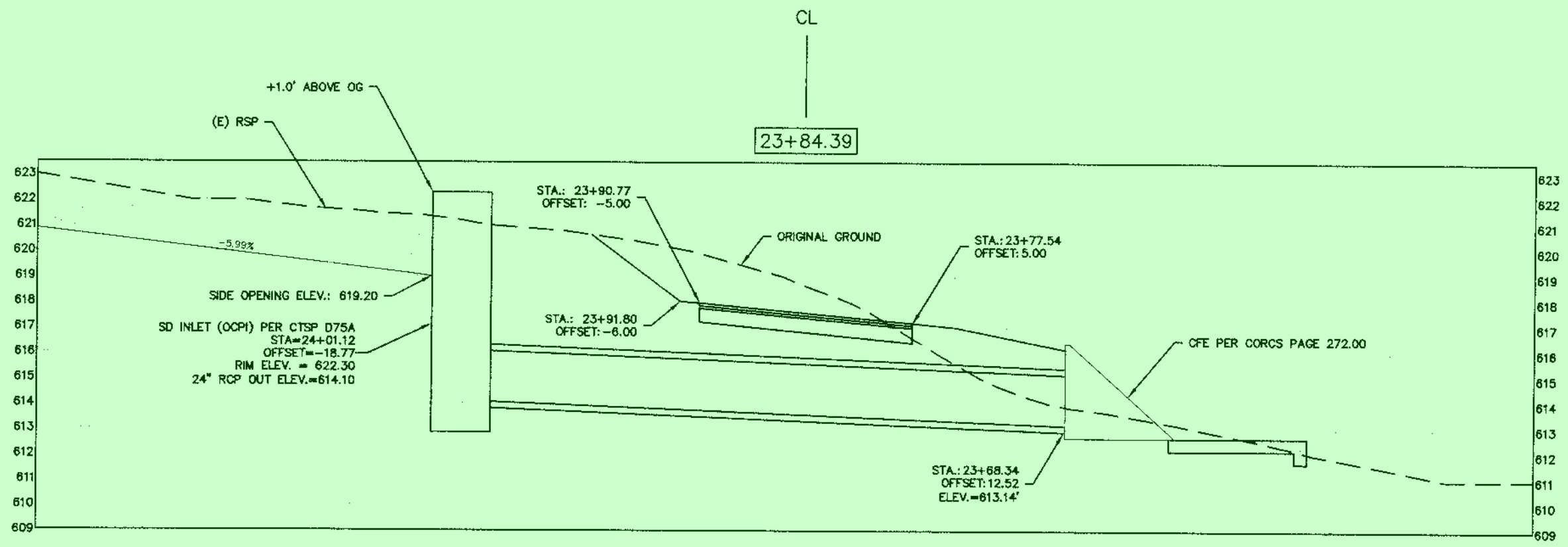
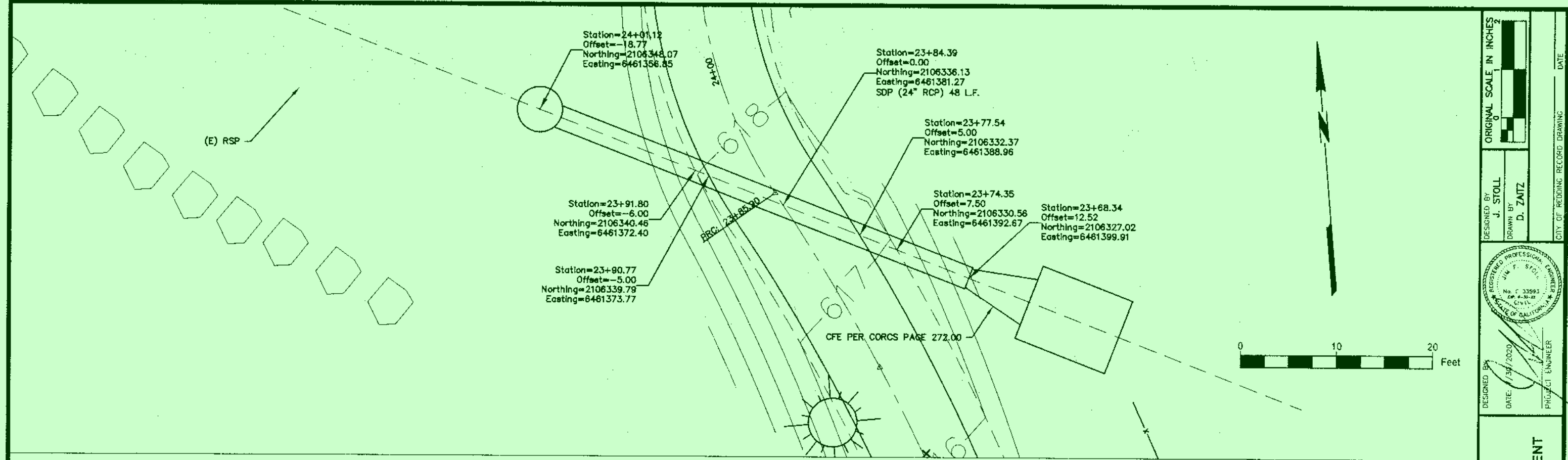
- POLE DESIGNED PER AASHTO 2013, 80 MPH WIND VELOCITY FOR THE FOLLOWING DESIGN CONDITIONS:
* MAXIMUM LUMINAIRE SIZE: 1.0 SQ. FT. EPA & 40 LBS.
 - POLE ASSEMBLY SHALL BE POWDER COATED TEXTURED BLACK (RAL 9005TX) PER HAPCO SPECIFICATION 73737-TOI OR APPROVED EQUAL.
- LUMINAIRE-GARDCO MODEL NUMBER
PPT-140L-650-WW-G2-T3-2-UNV-F2-BK OR APPROVED EQUAL.



REDUCED PLANS

ORIGINAL SCALE IN INCHES 1" = 10'-0"		DATE
DESIGNED BY J. STOLL	DRAWN BY D. ZAITZ	CITY OF REDDING RECORD DRAWING
CITY OF REDDING PUBLIC WORKS DEPARTMENT		
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE		
TYPICAL DETAILS		
C10.0 ORIGINAL SCALE: AS SHOWN DATE: 7/30/2020 SHEET OF		

A-29718

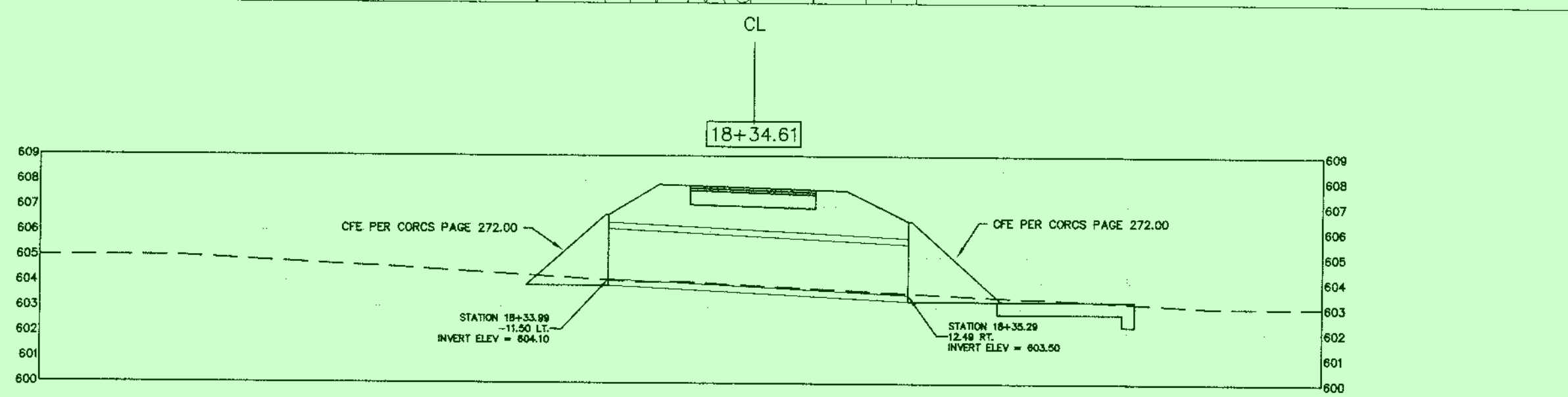
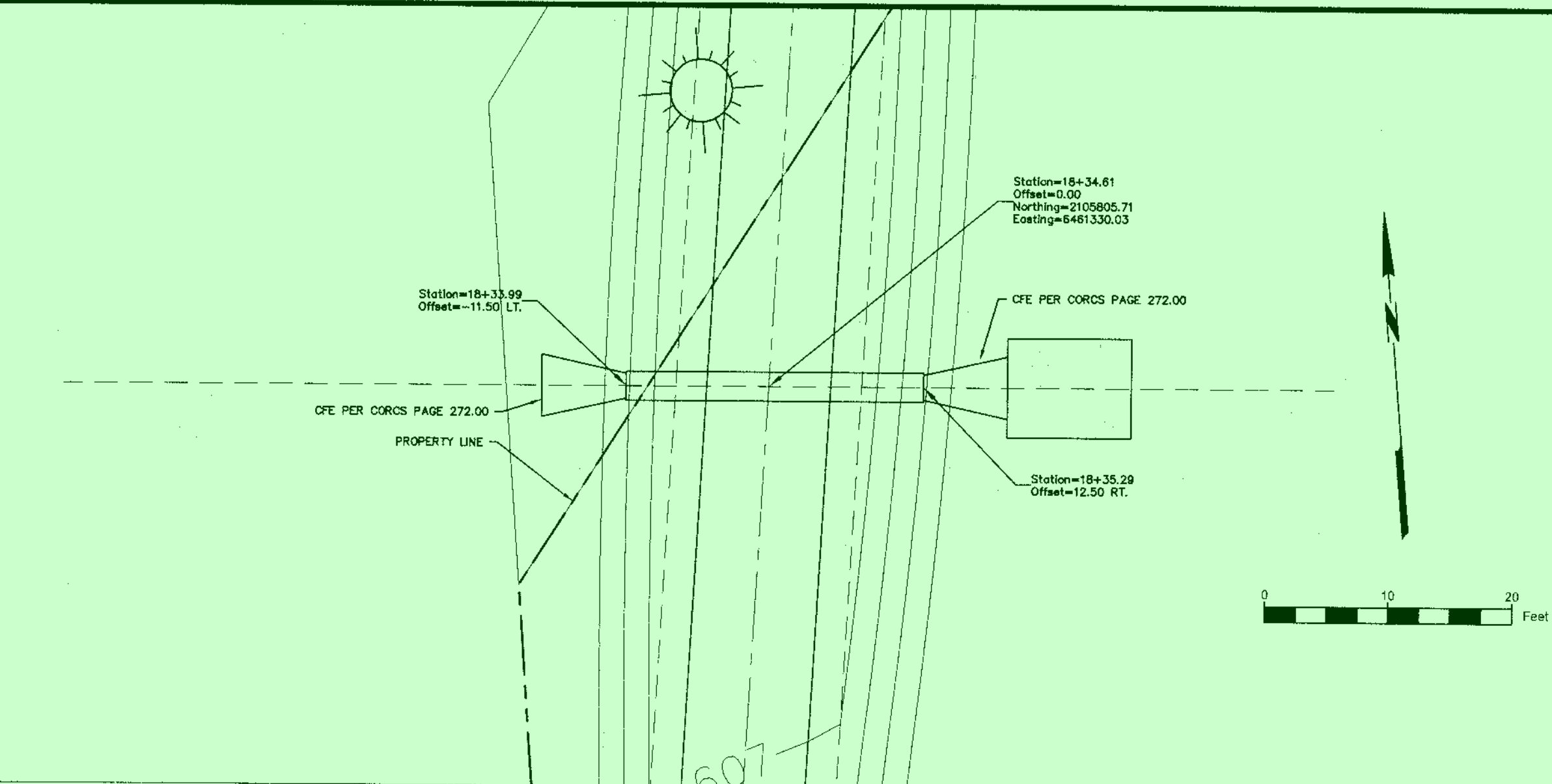


23+84.39 STORM DRAIN CROSSING

REDUCED PLANS

A-29719

ORIGINAL SCALE IN INCHES 		DESIGNED BY J. STOLL DRAWN BY D. ZAITZ	CITY OF REDDING RECORD DRAWING DATE
REGISTERED PROFESSIONAL ENGINEER JIM F. STOLL No. C 33593 Exp. 6-30-22 CIVIL STATE OF CALIFORNIA		DESIGNED BY J. STOLL DATE 7/30/2020 PROJECT ENGINEER	
CITY OF REDDING PUBLIC WORKS DEPARTMENT			
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE		BID SCH NO. 5159 JCR NO. 5112	
CULVERT PLAN AND PROFILE			
C11.0 ORIGINAL SCALE: AS SHOWN DATE: 7/30/2020 SHEET OF			

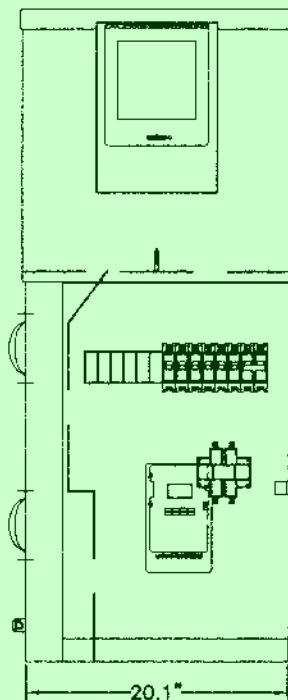


18+34.61 STORM DRAIN CROSSING

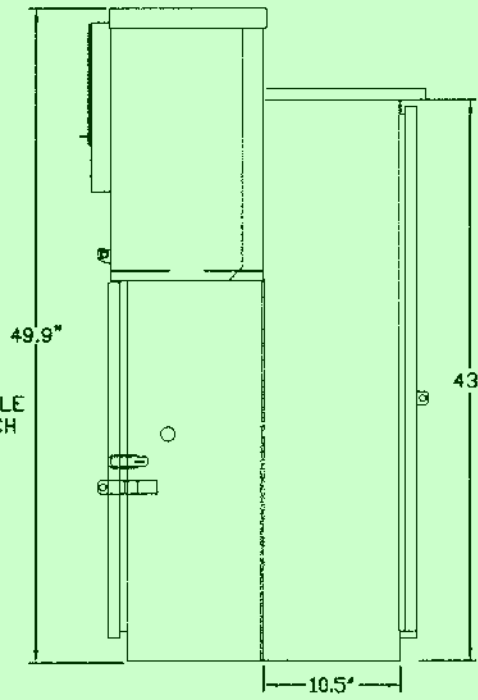
REDUCED PLANS

A-29720

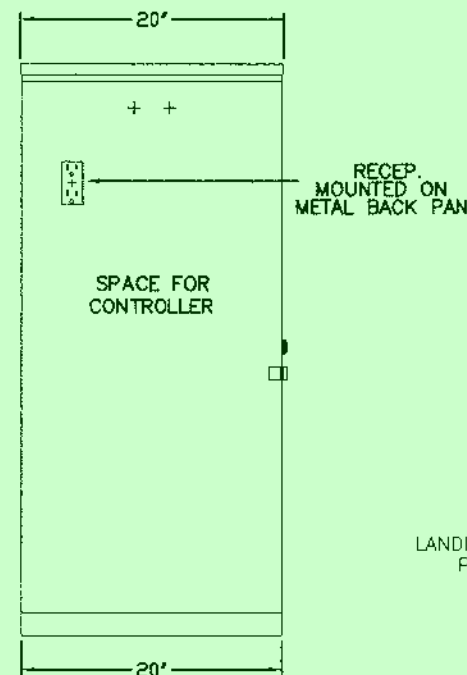
ORIGINAL SCALE IN INCHES 	
DESIGNED BY J. STOLL	DRAWN BY D. ZATZ
CITY OF REDDING RECORD DRAWING DATE: _____	
REGISTERED PROFESSIONAL ENGINEER No. C 33593 Exp. 1-1-22 CIVIL STATE OF CALIFORNIA	
DESIGNED BY J. STOLL DATE: 7/30/2020 PROJECT ENGINEER	
CITY OF REDDING PUBLIC WORKS DEPARTMENT	
NORTHEAST CROSSING TRAIL PROJECT - PHASE ONE JOB NO. 5112 BID SCA NO. 5159	
C12.0 ORIGINAL SCALE: AS SHOWN DATE: 7/30/2020 SHEET OF	



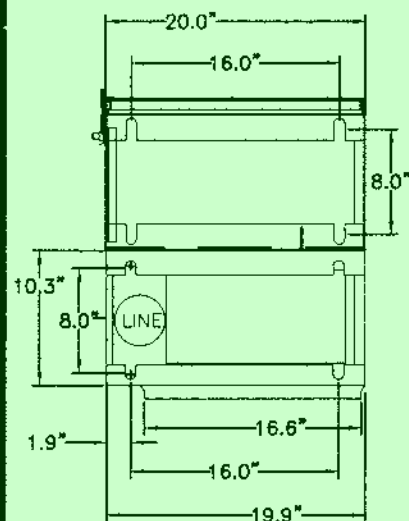
FRONT VIEW



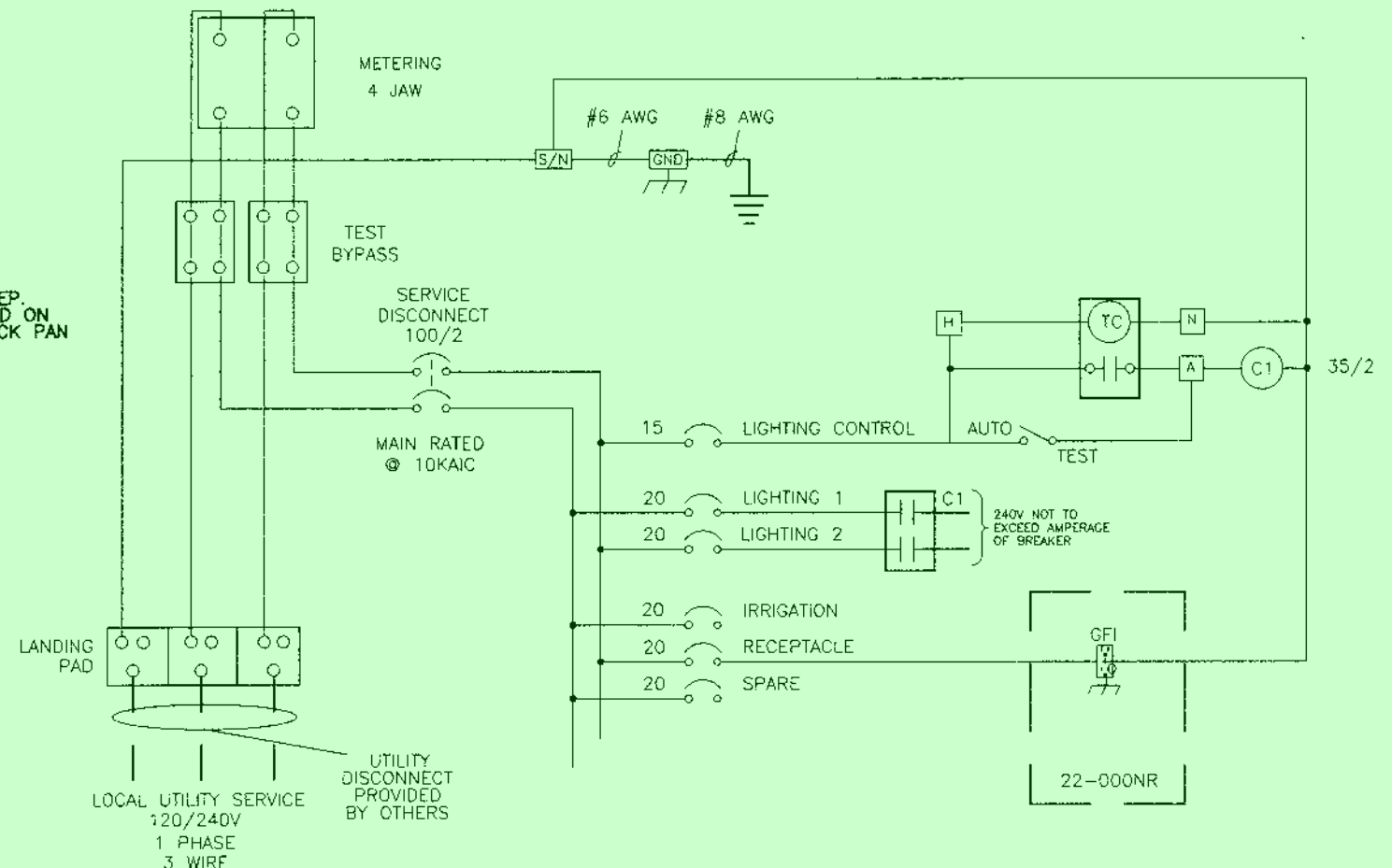
SIDE VIEW



BACK VIEW



BASE PLAN



NOTE: LOAD CURRENT FOR ALL BREAKERS NOT TO EXCEED 80% OF BREAKER AMPERAGE

SERVICE EQUIPMENT
WIRING DIAGRAM

ELECTRICAL SCHEDULE OF ITEMS

ELECTRICAL TRENCH WITH PVC CONDUIT, CONDUCTOR AND LOCATING WIRE	LF	3,000
RIGID STEEL CONDUIT ON PEDESTRIAN BRIDGE	LF	84
100 AMP. 120/240V. ELECTRICAL SERVICE PANEL, WITH CONTROLLERS	EA	1

ENCLOSURE CONSTRUCTION NOTES

1. EXTERIOR 12 GA. H.D. GALV. STEEL AND INTERIOR 14 GA. COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE TYPE 3R, RAIN TIGHT.
3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA AND UL 508A STANDARDS.
9. COLOR TO BE: ***RANCH GREEN***

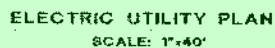
TESCO CONTROLS INC. 918 395-8800 SACRAMENTO, CA					
# T-					
# 27-000					
INDUSTRIAL CONTROL PANEL					
VOLTAGE	PHASE	WIRES	MAINS AMPERES	HZ	
120/240	1	3	100	60	
SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN:					
AMPERES		AT	VOLTAGE		
3,500		RMS SYM.	240 V		
METER SOCKET RATING 125 A. CONT.					
ENCLOSURE TYPE 3R					
SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT					

REDUCED
PLANS

A-29721

DESIGNED BY J. STOLL
DRAWN BY D. ZAITZ
CITY OF REDDING, RESUME DRAWING
DATE: 7/30/2020
PROJECT ENGINEER
CITY OF REDDING
PUBLIC WORKS DEPARTMENT
NORTHEAST CROSSING TRAIL
PROJECT - PHASE ONE
JOB NO. 5112
BID SCH NO. 5139
ELECTRICAL DETAILS
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ORIGINAL SCALE:
N.T.S.
DATE: 7/30/2020
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ORIGINAL SCALE IN INCHES
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C:\p\scoll_boulder_creek_trap\details_elec.zen D.B.Z. 7/30/2020

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE TWO (CAPM)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1

10% CONCEPTUAL PLANS

REGISTERED CIVIL ENGINEER

XX-XX-18

PLANS APPROVAL DATE

DATE

NAME

No. XXXXXX

Exp. XX-XX-18

CIVIL



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OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
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LEGEND

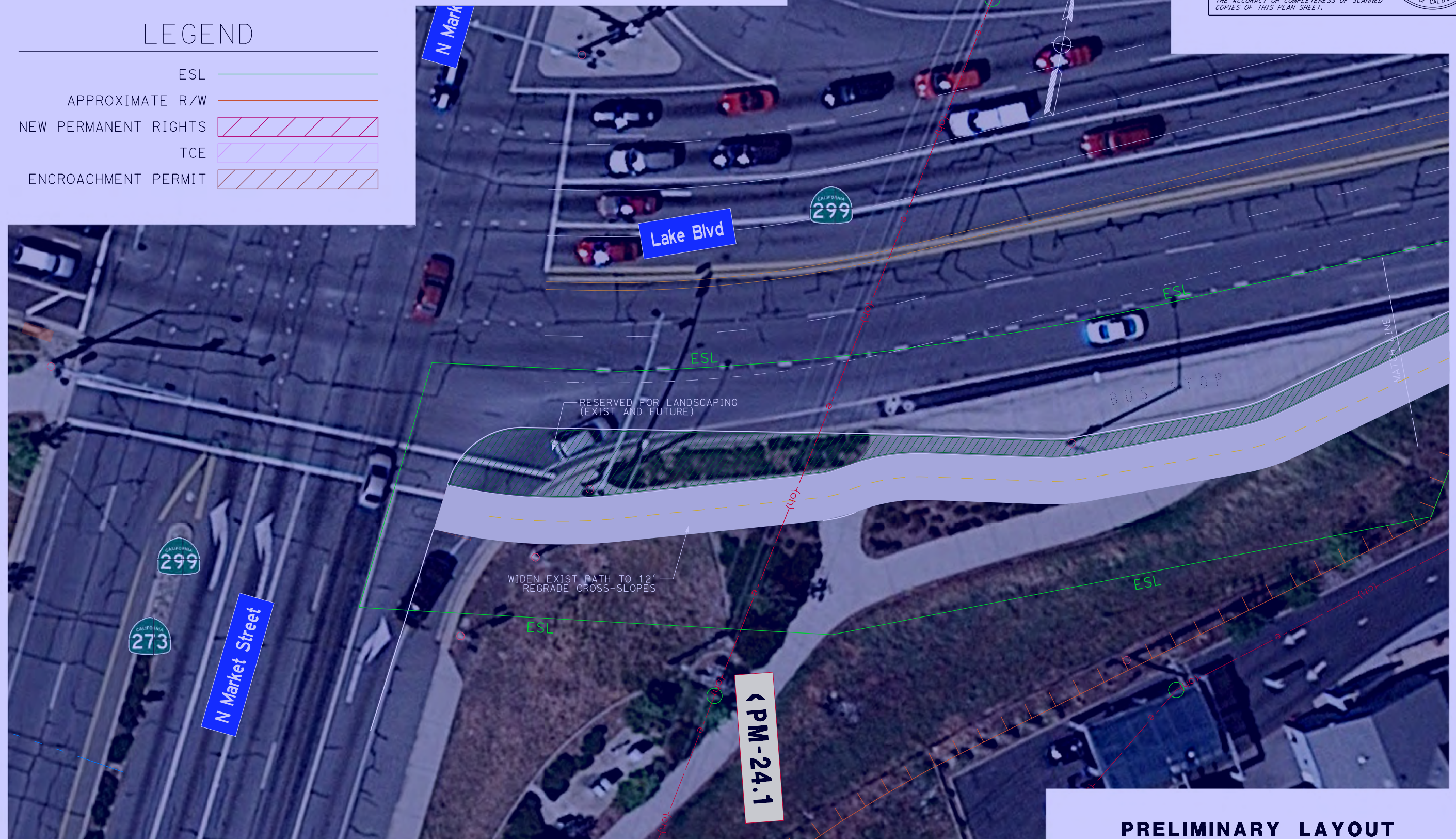
ESL

APPROXIMATE R/W

NEW PERMANENT RIGHTS

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ENCROACHMENT PERMIT



PRELIMINARY LAYOUT

NO SCALE **L-1**

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BORDER LAST REVISED 7/2/2010

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ADVANCE PLANNING

FUNCTIONAL SUPERVISOR

BRETT DITZLER

CALCULATED-
DESIGNED BY

CHECKED BY

TRINA BLANCHETTE

REVISED BY

DATE REVISED

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE TWO (CAPM)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1

10% CONCEPTUAL PLANS
REGISTERED CIVIL ENGINEER
XX-XX-18
DATE
XX-XX-18
PLANS APPROVAL DATE

NAME
XXXXXX
No.
XX-XX-18
Exp.
CIVIL
STATE OF CALIFORNIA

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PRELIMINARY LAYOUT
NO SCALE L-2

USERNAME => S145296
DGN FILE => 4H050S_L-2.dgn

RELATIVE BORDER SCALE
IS IN INCHES



UNIT 0144

PROJECT NUMBER & PHASE

02-1800-0080-K

LAST REVISION
00-00-00
DATE PLOTTED => 02-SEP-2020
TIME PLOTTED => 08:46

X



NOSSAAEE L-3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1

10% CONCEPTUAL PLANS

REGISTERED CIVIL ENGINEER

XX-XX-18

DATE

XX-XX-18

PLANS APPROVAL DATE

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OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.*



NO SCALE **L-4**

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BORDER LAST REVISED 7/2/2010

USERNAME => S145296
DGN FILE => 4H050S_L-5.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 0144

PROJECT NUMBER & PHASE

02-1800-0080-K

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1
10% CONCEPTUAL PLANS					XX-XX-18
REGISTERED CIVIL ENGINEER			DATE		
XX-XX-18					PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
REGISTERED PROFESSIONAL ENGINEER					
NAME					
No. XXXXXX					
Exp. XX-XX-18					
CIVIL					
STATE OF CALIFORNIA					

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE TWO (CAPM)



PRELIMINARY LAYOUT

NO SCALE

L-5

LAST REVISION
00-00-00
DATE PLOTTED => 02-SEP-2020
TIME PLOTTED => 08:53

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DATE PLOTTED => 02-SEP-2020	LAST REVISION 00-00-00
TIME PLOTTED => 09:03	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1
10% CONCEPTUAL PLANS			XX-XX-18		
REGISTERED CIVIL ENGINEER			DATE		
XX-XX-18					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



PRELIMINARY LAYOUT
NO SCALE **L-8**

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE TWO (CAPM)



PRELIMINARY LAYOUT
NO SCALE **L-11**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		FUNCTIONAL SUPERVISOR		CALCULATED-DESIGNED BY		TRINA BLANCHETTE		REVISED BY	
ADVANCE PLANNING		BRETT DITZLER		CHECKED BY				DATE REVISED	

NORTH REDDING ACTIVE TRANSPORTATION
TRUNK LINE - PHASE TWO (CAPM)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1

10% CONCEPTUAL PLANS

REGISTERED CIVIL ENGINEER

XX-XX-18

PLANS APPROVAL DATE

NAME

No. XXXXXX

Exp. XX-XX-18

CIVIL

STATE OF CALIFORNIA

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PRELIMINARY LAYOUT
NO SCALE L-14

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING

FUNCTIONAL SUPERVISOR
BRETT DITZLER

CALCULATED-DESIGNED BY
CHECKED BY

TRINA BLANCHETTE

REVISED BY
DATE REVISED

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE TWO (CAPM)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1

10% CONCEPTUAL PLANS
REGISTERED CIVIL ENGINEER
XX-XX-18
PLANS APPROVAL DATE

DATE
XX-XX-18
Exp. XX-XX-18
CIVIL
STATE OF CALIFORNIA

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PRELIMINARY LAYOUT
NO SCALE L-16

NORTH REDDING ACTIVE TRANSPORTATION TRUNK LINE - PHASE TWO (CAPM)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	SHA	299	VAR	1	1

10% CONCEPTUAL PLANS REGISTERED CIVIL ENGINEER XX-XX-18 PLANS APPROVAL DATE	
---	---

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OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.



PRELIMINARY LAYOUT
NO SCALE **L-17**

FUNCTIONAL SUPERVISOR

CALCULATED-

TRINA DI ANCHETTE

REVISED BY

[illegible][illegible]

—

MATCH LINE

NO SCALE **L-18**

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Detailed Engineer's Estimate and Total Project Costs- Cycle 5 v1.3

Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).

Project Information:

Agency:	Caltrans prepared in partnership with Shasta Regional Transportation Agency	Date:	9/11/2020
Project Description:	Construct new Class I shared-use path, widen shoulders and add sidewalk		
Project Location:	Lake Boulevard (SR 299) Corridor between Masonic Avenue and Old Oregon Trail		
Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate:	Brett Ditzler	License #:	74085

Engineer's Estimate and Cost Breakdown:

Engineer's Estimate (for Construction Items Only)						Cost Breakdown					
						ATP <u>Eligible</u> Costs/Items		ATP <u>Ineligible</u> Costs/Items		Corps/CCC to construct	
Item No.	Item	Quantity	Units	Unit Cost	Total Item Cost	%	\$	%	\$	%	\$
General Overhead-Related Construction Items											
1	Mobilization	1	LS	\$862,314.21	\$862,314	100%	\$862,314				
2	Traffic Control	1	LS	\$357,865.61	\$357,866	100%	\$357,866				
3	Stormwater Protection Plan	1	LS	\$405,581.03	\$405,581	100%	\$405,581				
4	Time-Related Overhead (LS)	1	LS	\$525,178.16	\$525,178	100%	\$525,178				
5	Construction Area Signs	1	LS	\$23,857.71	\$23,858	100%	\$23,858				
6	Permits	1	LS	\$2,385.77	\$2,386	100%	\$2,386				
7	Traffic Management Plan	1	LS	\$11,928.85	\$11,929	100%	\$11,929				
8	Progress Schedule (Critical Path Method)	1	LS	\$21,471.94	\$21,472	100%	\$21,472				
9	Lead Compliance Plan	1	LS	\$11,928.85	\$11,929	100%	\$11,929				
10	RE Office	1	LS	\$212,989.68	\$212,990	100%	\$212,990				
General Construction Items											
11	Roadway Excavation	7482.61	CY	\$71.57	\$535,554	100%	\$535,554				
12	Imported Borrow	5329.65	CY	\$42.94	\$228,876	100%	\$228,876				
13	Structure Excavation and Backfill (Walls)	544.54	CY	\$109.77	\$59,774	100%	\$59,774				
14	Clearing and Grubbing	1.00	LS	\$34,048.34	\$34,048	100%	\$34,048				
15	Develop Water Supply	1.00	LS	\$11,928.85	\$11,929	100%	\$11,929				
16	Duff	1.00	ACRE	\$16,700.40	\$16,700	100%	\$16,700				
17	Shoulder Backing	368.03	TON	\$67.99	\$25,024	100%	\$25,024				
18	Subgrade Enhancement Geotextile	1095.45	SQYD	\$5.07	\$5,554	100%	\$5,554				
19	Hot Mix Asphalt (Type A)	3250.01	TON	\$167.00	\$542,765	100%	\$542,765				
20	Class 2 Aggregate Base	2751.28	CY	\$113.32	\$311,786	100%	\$311,786				
21	Tack Coat	2.70	TON	\$1,491.11	\$4,020	100%	\$4,020				
22	Minor Concrete	1156.06	CY	\$999.17	\$1,155,098	100%	\$1,155,098				
23	Detectable Warning Surface	362.50	SQFT	\$49.50	\$17,945	100%	\$17,945				
24	Remove Concrete (LS)	1.00	LS	\$28,243.86	\$28,244	100%	\$28,244				
25	Retaining Walls	2.00	EA	\$241,442.85	\$482,886	100%	\$482,886				
26	Reconstruct Drainage Facility (LS)	1.00	LS	\$518,541.93	\$518,542	100%	\$518,542				
27	Treated Wood Waste	6472.84	LB	\$0.48	\$3,089	100%	\$3,089				
28	Remove Railing	1.00	LS	\$5,694.87	\$5,695	100%	\$5,695				
29	Fence	1410.43	LF	\$81.71	\$115,250	100%	\$115,250				
30	Concrete Barrier	1868.50	LF	\$182.65	\$341,284	100%	\$341,284				
31	Architectural Treatment	12167.18	SQFT	\$23.86	\$290,281	100%	\$290,281				
32	Pre/Post Construction Surveys	29.00	EA	\$596.44	\$17,297	100%	\$17,297				
33	Landscape and Irrigation	500.00	LF	\$124.90	\$62,448	100%	\$62,448				
34	Erosion Control	285000	SQFT	\$0.38	\$109,030	100%	\$109,030				
35	Maintain Existing Traffic Management Sys	1.00	LS	\$3,936.52	\$3,937	100%	\$3,937				
36	Flashing Beacon System	3.00	EA	\$59,644.27	\$178,933	100%	\$178,933				
37	Lighting System	1.00	LS	\$2,302,269	\$2,302,269	100%	\$2,302,269				
38	Signs	1.00	LS	\$131,026.53	\$131,027	100%	\$131,027				
39	Striping	1.00	LS	\$48,150.05	\$48,150	100%	\$48,150				
40	Pavement Marking	7762.00	SQFT	\$8.70	\$67,564	100%	\$67,564				
41	Portable Changeable Message Signs	6.00	EA	\$5,964.43	\$35,787	100%	\$35,787				
42	Temporary Pedestrian Access Route	1.00	LS	\$111,654.07	\$111,654	100%	\$111,654				
43	Payment Adjustments For Price Index Fluct	3250.00	TON	\$3.67	\$11,929	100%	\$11,929				
44	Value Analysis	1.00	EA	\$11,928.85	\$11,929	100%	\$11,929				
45	Maintain Traffic	150.00	DAY	\$159.05	\$23,858	100%	\$23,858				
46	Dispute Resolution Board	150.00	DAY	\$59.64	\$8,947	100%	\$8,947				
47	Partnering	150.00	DAY	\$159.05	\$23,858	100%	\$23,858				
48	Electrical Service Connection	1.00	EA	\$119,288.54	\$119,289	100%	\$119,289				
49	Revegetation	1.00	EA	\$11,928.85	\$11,929	100%	\$11,929				
50	New Bridge	1.00	EA	\$1,622,324	\$1,622,324	100%	\$1,622,324				
51								100%			
52								100%			
Subtotal of Construction Items:					\$12,072,000		\$12,072,000				
Construction Item Contingencies (% of Construction Items):					25.00%		\$3,018,000				
Total (Construction Items & Contingencies) cost:					\$15,090,000		\$15,090,000				
Project Delivery Costs:											

Detailed Engineer's Estimate and Total Project Costs- Cycle 5 v1.3

Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).

Project Information:

Agency: Caltrans prepared in partnership with Shasta Regional Transportation Agency Date: 9/11/2020
 Project Description: Construct new Class I shared-use path, widen shoulders and add sidewalk
 Project Location: Lake Boulevard (SR 299) Corridor between Masonic Avenue and Old Oregon Trail
 Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate: Brett Ditzler License #: 74085

Type of Project Cost	Cost \$	ATP Eligible Costs	Non-participating Costs
Preliminary Engineering (PE)			
Environmental Studies and Permits(PA&ED):	\$ 1,614,000	\$1,614,000	
Plans, Specifications and Estimates (PS&E):	\$ 2,158,000	\$2,158,000	"PE" costs / "CON" costs
Total PE:	\$ 3,772,000	\$3,772,000	25% 25% Max
Right of Way (RW)			
Right of Way Engineering:	\$ 309,000	\$309,000	
Acquisitions and Utilities:	\$ 1,247,000	\$1,247,000	
Total RW:	\$ 1,556,000	\$1,556,000	
Construction Engineering (CE)			"CE" costs / "CON" costs
Construction Engineering (CE):	\$ 2,264,000	\$2,264,000	15% 15% Max
(PE+RW+CE) Total Project Delivery:	\$7,592,000	\$7,592,000	
Total Construction Costs:	\$15,090,000	\$15,090,000	
Total Project Cost:		\$22,682,000	

Documentation of Ineligible (Non-Participating) Costs:

The Engineer's logic and/or calculations for splitting costs between ATP-Eligible and Non-participating costs must be documented in this section of the Estimate form.

Separate logic is required for each item which is partly ineligible for ATP funding or is required for the construction of an ineligible item/element of the project.

Item #:	Description of Engineer's Logic: (See examples shown in the Instructions)
All	All items are ATP-eligible



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