

COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

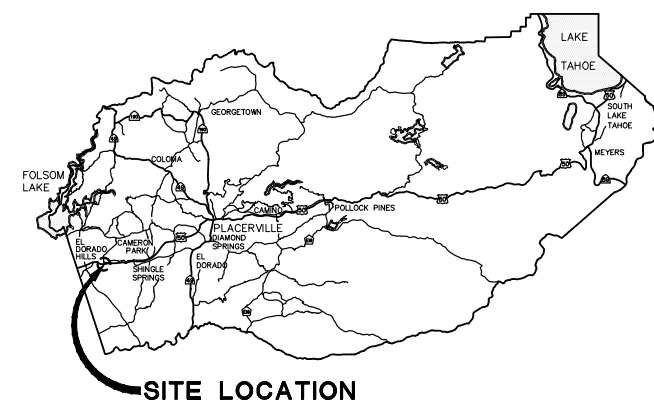
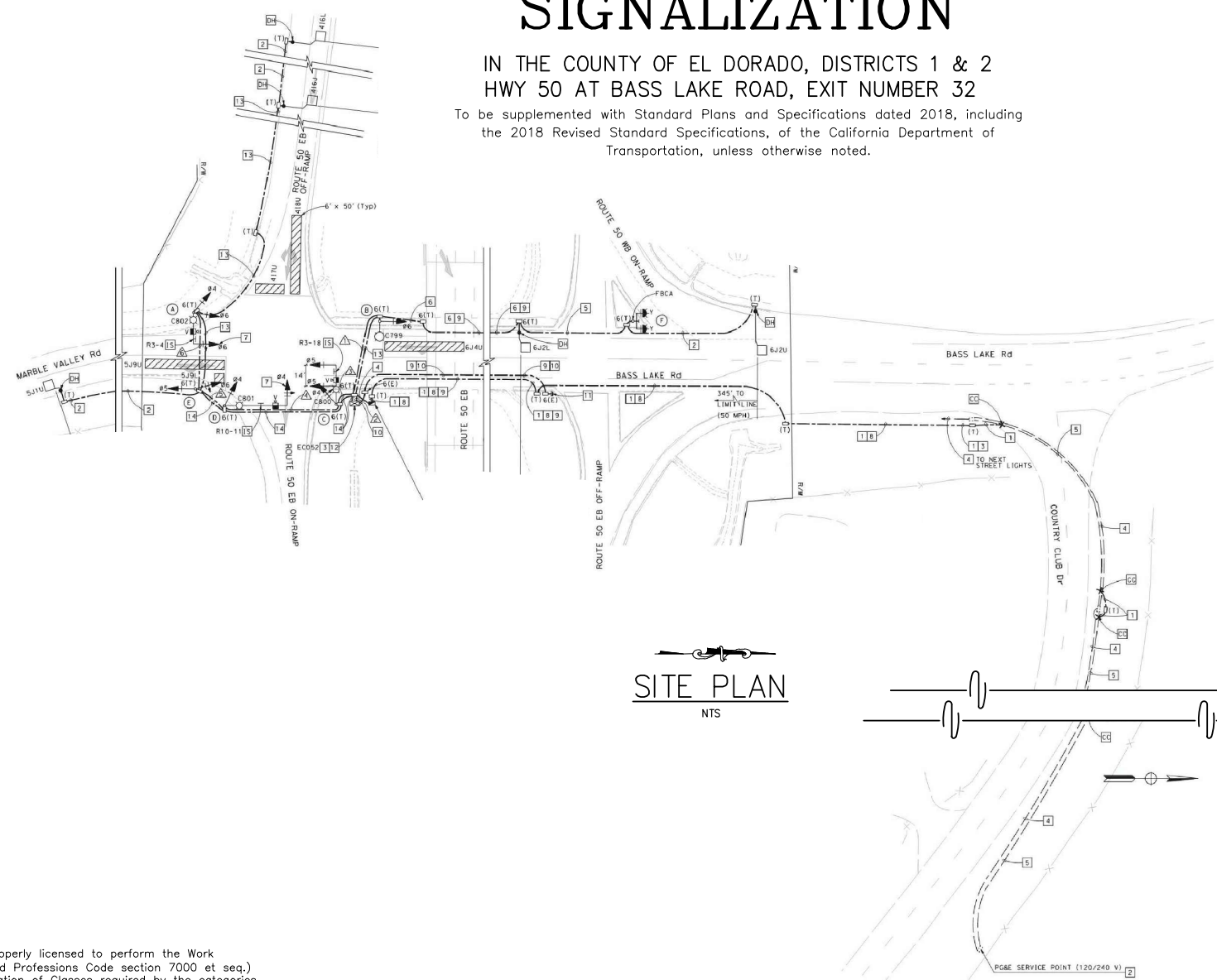
PROJECT PLANS FOR THE CONSTRUCTION OF U.S. HWY 50/BASS LAKE ROAD EASTBOUND OFF RAMP SIGNALIZATION

IN THE COUNTY OF EL DORADO, DISTRICTS 1 & 2
HWY 50 AT BASS LAKE ROAD, EXIT NUMBER 32

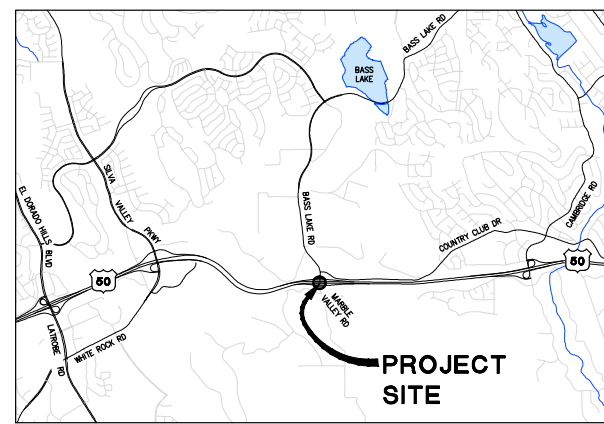
To be supplemented with Standard Plans and Specifications dated 2018, including
the 2018 Revised Standard Specifications, of the California Department of
Transportation, unless otherwise noted.

INDEX OF SHEETS

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5	E-4	SIGNAL AND LIGHTING SYSTEM
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10	EQ-1	ELECTRICAL SYSTEMS QUANTITIES
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SITE LOCATION
VICINITY MAP
COUNTY OF EL DORADO



LOCATION MAP
NOT TO SCALE

FUNDING AGENCY

BOARD OF SUPERVISORS

I	JOHN HIDAHL
II	GEORGE TURNBOO
III	WENDY THOMAS
IV	LORI PARLIN
V	SUE NOVASEL

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

DATE	
DATE	

JOHN HIDAHL, CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS
APPROVED BY:
RAFAEL MARTINEZ, DIRECTOR, DEPARTMENT OF TRANSPORTATION
JOHN WAILING, P.E. NO. 052428, DEPUTY DIRECTOR, ENGINEERING

CONTRACT NO. 4471 CIP NO. 73367

**U.S. HWY 50/BASS LAKE ROAD
EASTBOUND OFF RAMP
SIGNALIZATION**

TITLE SHEET

SHEET **1** OF **14**

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

REVISIONS

MARK	DATE	BY



SUBMITTED BY: *ZSO*
ZACHARY S. OATES
CIVIL ENGINEER
STATE OF CALIFORNIA NO. _____
DATE: 03/11/21

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\73367 Bass Lake EB Off Signals\Transmittals\Plan_Sheet.dwg Layout_Tab: Model Apr 14, 2020 - 11:33am SMcVey
 FOR REDUCED PLANS
 REVISION
 0 1 2

ELECTRICAL INDEX:

- E-1 ELECTRICAL SYSTEMS
- E-2 AND E-3 SIGNAL AND LIGHTING SYSTEM
- E-4 MODIFYING LIGHTING SYSTEMS
- ED-1 TO ED-2 ELECTRICAL SYSTEMS DETAILS
- EO-1 ELECTRICAL SYSTEMS QUANTITIES

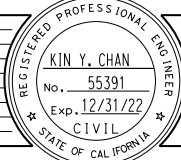

NOTES:

1. PRIOR TO ANY WORK ON PG&E SERVICE POINT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. ALL ELECTRICAL EQUIPMENT SHALL HAVE A MINIMUM 2 FEET LATERAL CLEARANCE FROM FACE OF CURB.
3. SEE SHEET ED-2 FOR TRAFFIC RATED PULL BOX DETAILS.

ABBREVIATIONS:

PG&E PACIFIC GAS & ELECTRIC

ELECTRICAL SYSTEMS

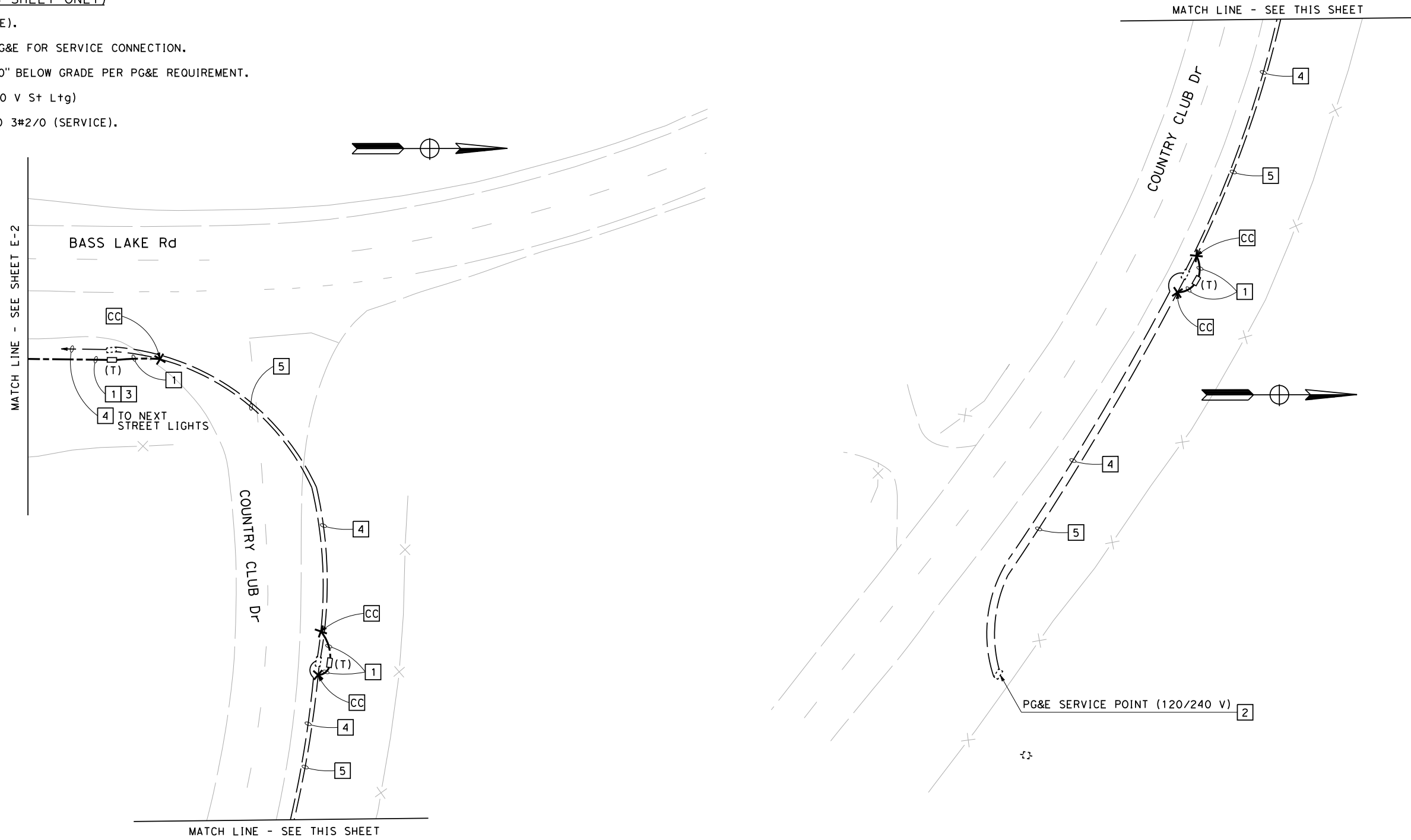
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NUMBER</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NUMBER	DATE	DESCRIPTION																 <p>PREPARED UNDER THE SUPERVISION OF:</p> <p style="text-align: center;"><i>Kin Y. Chan</i></p> <p>REGISTERED CIVIL ENGINEER DATE: 03-17-20</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: KYC</td> <td>DRAWN: CL</td> </tr> <tr> <td>CHECKED: DKY</td> <td>DATE: 03/17/21</td> </tr> <tr> <td colspan="2">ROAD NUMBER: 004</td> </tr> </table>	DESIGNED: KYC	DRAWN: CL	CHECKED: DKY	DATE: 03/17/21	ROAD NUMBER: 004		 <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p>	<p>BASS LAKE EASTBOUND OFF RAMP SIGNALS</p>	<p>SHEET E-1 2 OF 14 W.O. No. 73367</p>
NUMBER	DATE	DESCRIPTION																											
DESIGNED: KYC	DRAWN: CL																												
CHECKED: DKY	DATE: 03/17/21																												
ROAD NUMBER: 004																													

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND: (FOR THIS SHEET ONLY)

- 1 3"C, 3#2/0 (SERVICE).
- 2 COORDINATE WITH PG&E FOR SERVICE CONNECTION.
- 3 INSTALL CONDUIT 30" BELOW GRADE PER PG&E REQUIREMENT.
- 4 Exist 2"C, 2#8 (120 V St Ltg)
- 5 Exist 3"C, PT. ADD 3#2/0 (SERVICE).



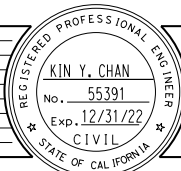
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 REVISION
 NUMBER DATE DESCRIPTION BY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING SYSTEM
SCALE: 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Kin Y. Chan
 REGISTERED CIVIL ENGINEER
 DATE: 03-17-20

DESIGNED: KYC
 DRAWN: CL
 CHECKED: DATE: 03/17/21
 ROAD NUMBER: 004



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

BASS LAKE EASTBOUND
 OFF RAMP SIGNALS

SHEET
 E-3
 4 OF 14
 W.O. No. 73367

CONDUCTOR SCHEDULE

CABLE TYPE	STD	PHASE	NUMBER OF CONDUCTORS						
			RUN NUMBER						
			1	2	3	4	5	6	
VEH-PED 12CSC	(A)	Ø4, Ø6		1	1	1	1	1	1
	(B)	Ø6	1	1					
	(C)	Ø4, Ø5		1	1				
	(D)	Ø4		1	1	1			
	(E)	Ø5, Ø6		1	1	1	1		
TOTAL CABLES 12/3 CONDUCTORS			1	5	4	3	2	1	
#8	LIGHTING (240 V)		2		2	2	2	2	
	FB (120 V)		2						
	TOTAL #8		4		2	2	2	2	
#6	SERVICE TO CONTROLLER (120 V)			2					
VIDEO DETECTION CAMERA CABLE				3	3	2	1	1	
CONDUIT SIZE (INCHES)			3	2-3"	2-3"	2-3"	3	3	
NEW/EXISTING CONDUIT (N/E)			N	N	N	N	N	N	
% FILL			10	22	19	14	18	11	




PROPOSED POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD			VEHICLE SIGNAL MOUNTING			LED LUMINAIRE	REMARKS	
	TYPE	SMA (ft)	LMA (ft)	Ø	MAST ARM	Ø			POLE
(A)	17A-2-100	20'	12'	6	MAS-4B	4 6	SV-2-TB	Rdwy 1	IS R3-4. INSTALL VIDEO DETECTION CAMERA ON SMA.
(B)	15TS		12'			6	SV-1-T	Rdwy 1	
(C)	19A-4-100	25'	15'	5 5	MAS MAS	4	SV-1-T	Rdwy 1	IS R3-18. INSTALL VIDEO DETECTION CAMERA ON SMA.
(D)	26A-4-100	40'	15'	4	MAS-4B	4	SV-1-T	Rdwy 1	IS R10-11. INSTALL VIDEO DETECTION CAMERA ON SMA.
(E)	1-B					5 6	TV-2-T		
(F)	TYPE 15 FBS (FIXED BASE)								

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FOR REDUCED PLANS
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SIGNAL AND LIGHTING SYSTEM NO SCALE

REVISION NUMBER DATE DESCRIPTION BY	 PREPARED UNDER THE SUPERVISION OF:  REGISTERED CIVIL ENGINEER DATE: 03-17-20	DESIGNED: KYC DRAWN: CL CHECKED: DATE: 03/17/21 DKY ROAD NUMBER: 004	 COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	BASS LAKE EASTBOUND OFF RAMP SIGNALS	SHEET E-4 5 OF 14 W.O. No. 73367
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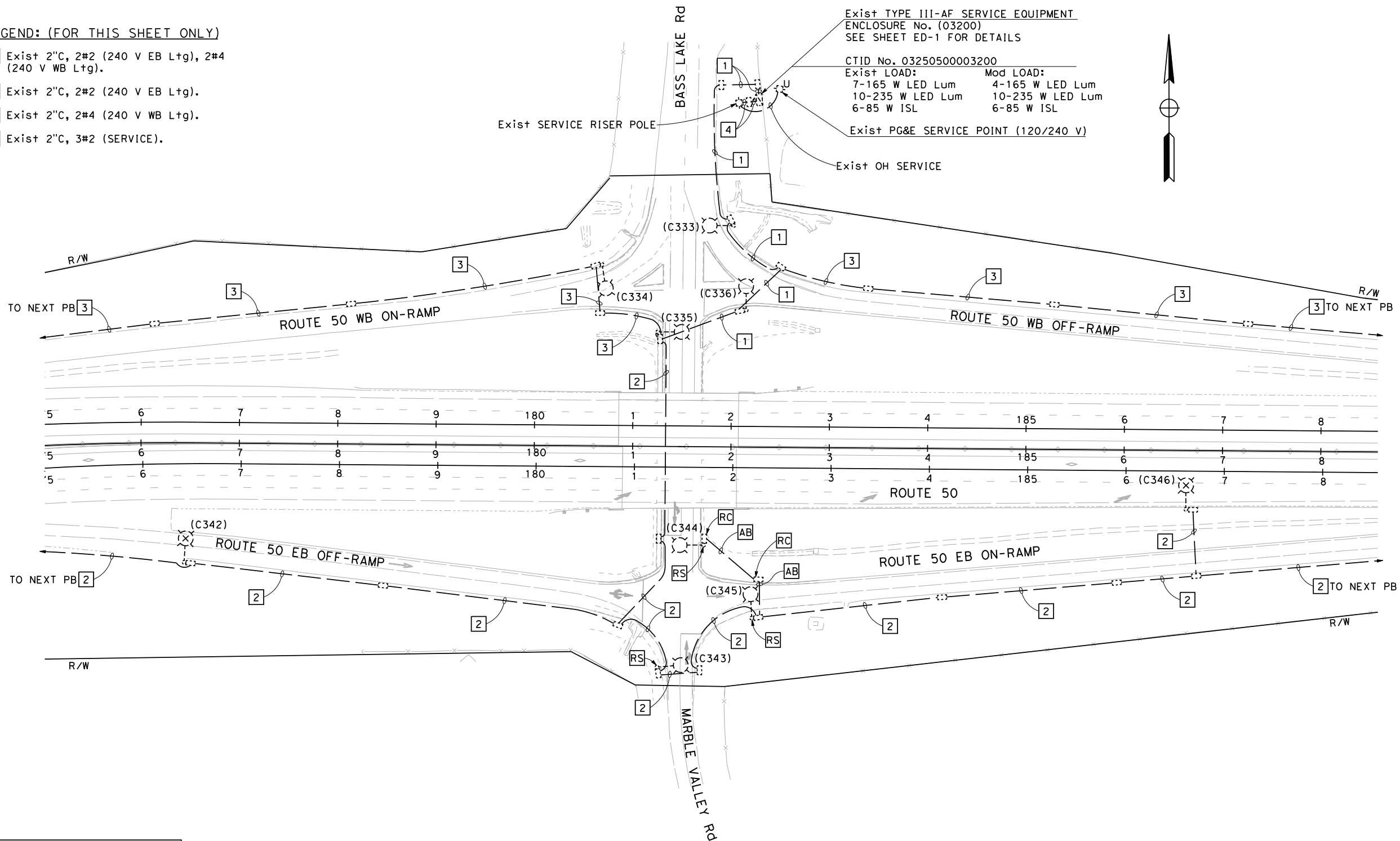
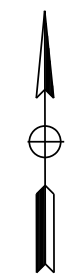
NOTE:

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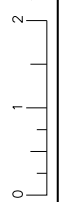
LEGEND: (FOR THIS SHEET ONLY)

- 1 Exist 2" C, 2#2 (240 V EB Ltg), 2#4 (240 V WB Ltg).
- 2 Exist 2" C, 2#2 (240 V EB Ltg).
- 3 Exist 2" C, 2#4 (240 V WB Ltg).
- 4 Exist 2" C, 3#2 (SERVICE).

Exist TYPE III-AF SERVICE EQUIPMENT
ENCLOSURE No. (03200)
SEE SHEET ED-1 FOR DETAILS
CTID No. 03250500003200
Exist LOAD: Mod LOAD:
7-165 W LED Lum 4-165 W LED Lum
10-235 W LED Lum 10-235 W LED Lum
6-85 W ISL 6-85 W ISL
Exist PG&E SERVICE POINT (120/240 V)



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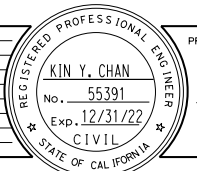


FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET E-1

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Kin Y. Chan
REGISTERED CIVIL ENGINEER
DATE: 03-17-20

DESIGNED: KYC
DRAWN: CL
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DKY
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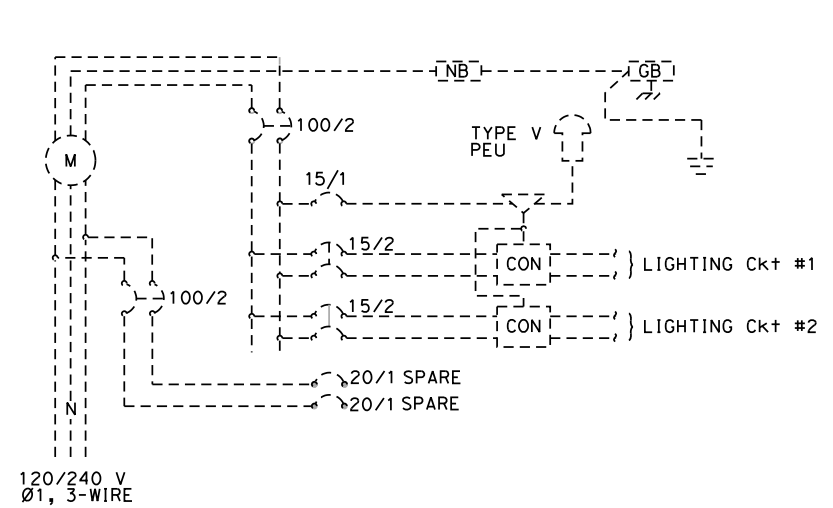


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

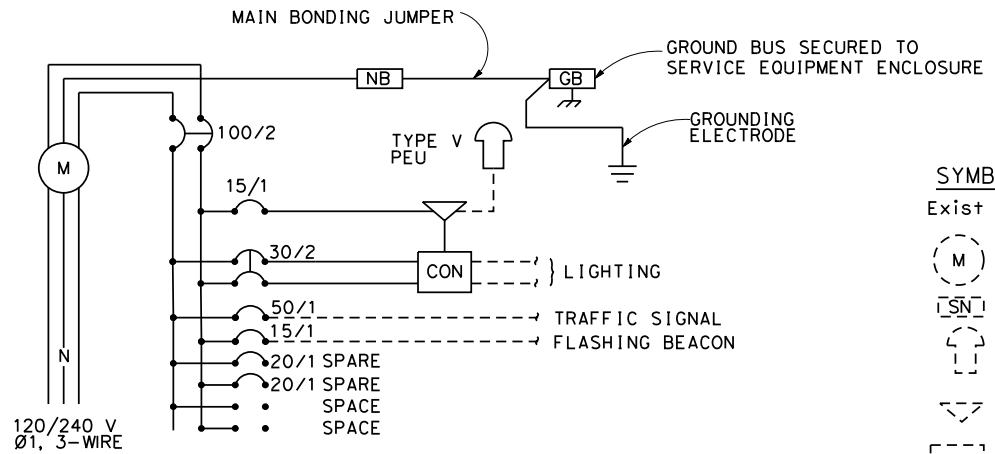
BASS LAKE EASTBOUND
OFF RAMP SIGNALS

SHEET
E-5
6 OF 14
W.O. No. 73367

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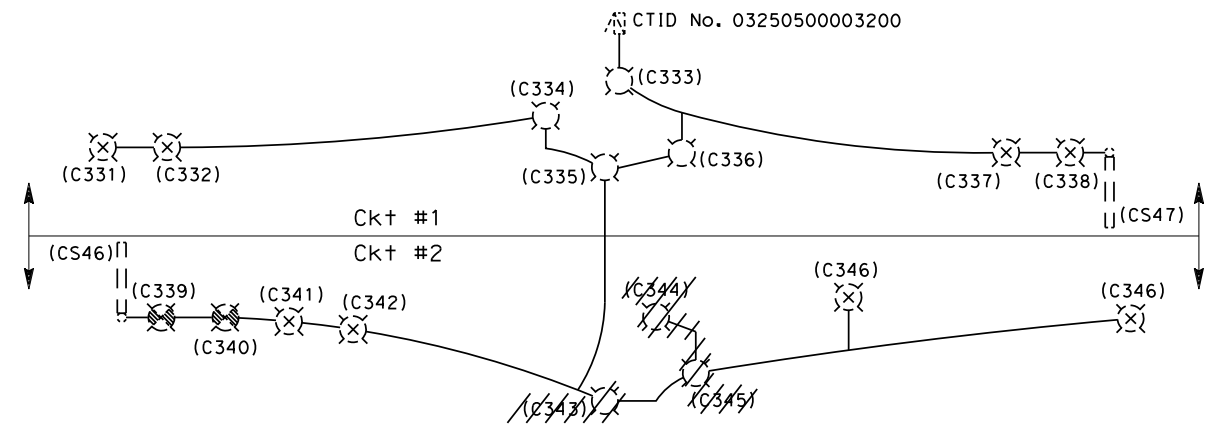


Exist SERVICE WIRING DIAGRAM
 CTID No. 03250500003200
 NO SCALE

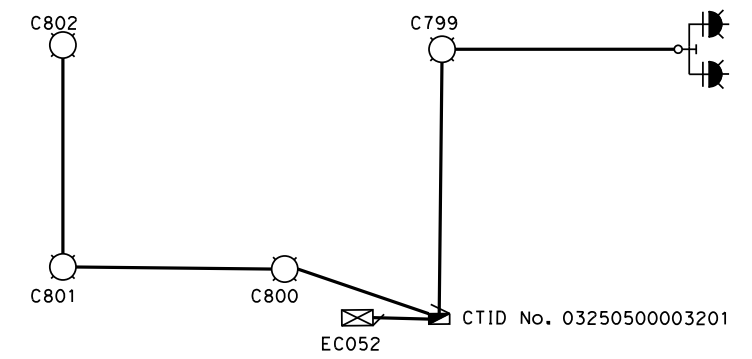


SERVICE WIRING DIAGRAM
 CTID No. 03250500003201
 NO SCALE
 SEE CALTRANS STANDARD
 PLAN ES-2C AND RSP ES-2D
 FOR OTHER DETAILS

- SYMBOL:**
- | | | |
|-------|-------|------------------------------------|
| Exist | NEW | |
| (M) | (M) | METER SOCKET |
| (SN) | (SN) | SOLID NEUTRAL BUS |
| (PEU) | (PEU) | PHOTOELECTRIC UNIT |
| (SW) | (SW) | 15 A, 1P, AUTO-TEST SWITCH |
| (CON) | (CON) | CONTACTOR |
| (TM) | (TM) | TERMINAL BLOCK FOR PHOTOCELL WIRES |



LIGHTING CIRCUIT DIAGRAM
 CTID No. 03250500003200
 NO SCALE

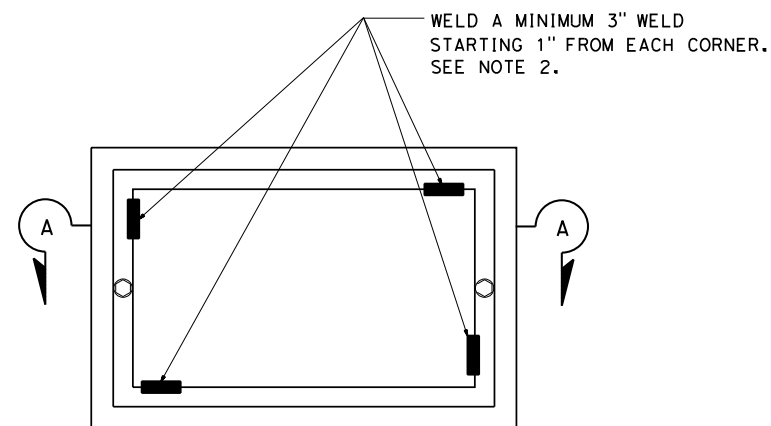


CIRCUIT DIAGRAM
 CTID No. 03250500003201
 NO SCALE

ELECTRICAL SYSTEMS DETAILS

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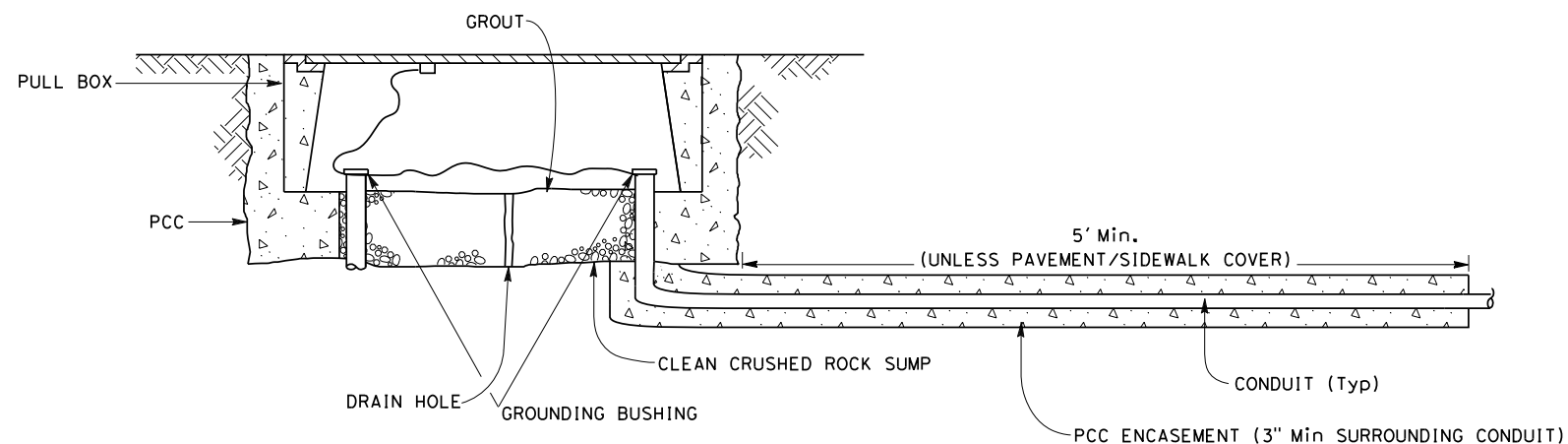
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 FOR REDUCED PLANS
 REVISION
 2
 1
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TOP VIEW

NOTES ON PULL BOXES:

1. FOR ADDITIONAL DETAILS, SEE REVISED STANDARD PLAN RSP ES-8B.
2. WELDING SHALL COMPLY WITH REQUIREMENTS IN STANDARD SPECIFICATION SECTION 75.
3. A PULL BOX FOR A POST OR A POLE STANDARD MUST BE LOCATED WITHIN 5 FEET OF THE STANDARD.

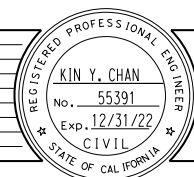


SECTION A-A

TRAFFIC PULL BOX

ELECTRICAL SYSTEMS DETAILS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Kin Y. Chan
 REGISTERED CIVIL ENGINEER
 DATE: 03-17-20

DESIGNED: KYC
 DRAWN: CL
 CHECKED: DKY
 DATE: 03/17/21
 ROAD NUMBER: 004



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

BASS LAKE EASTBOUND
 OFF RAMP SIGNALS

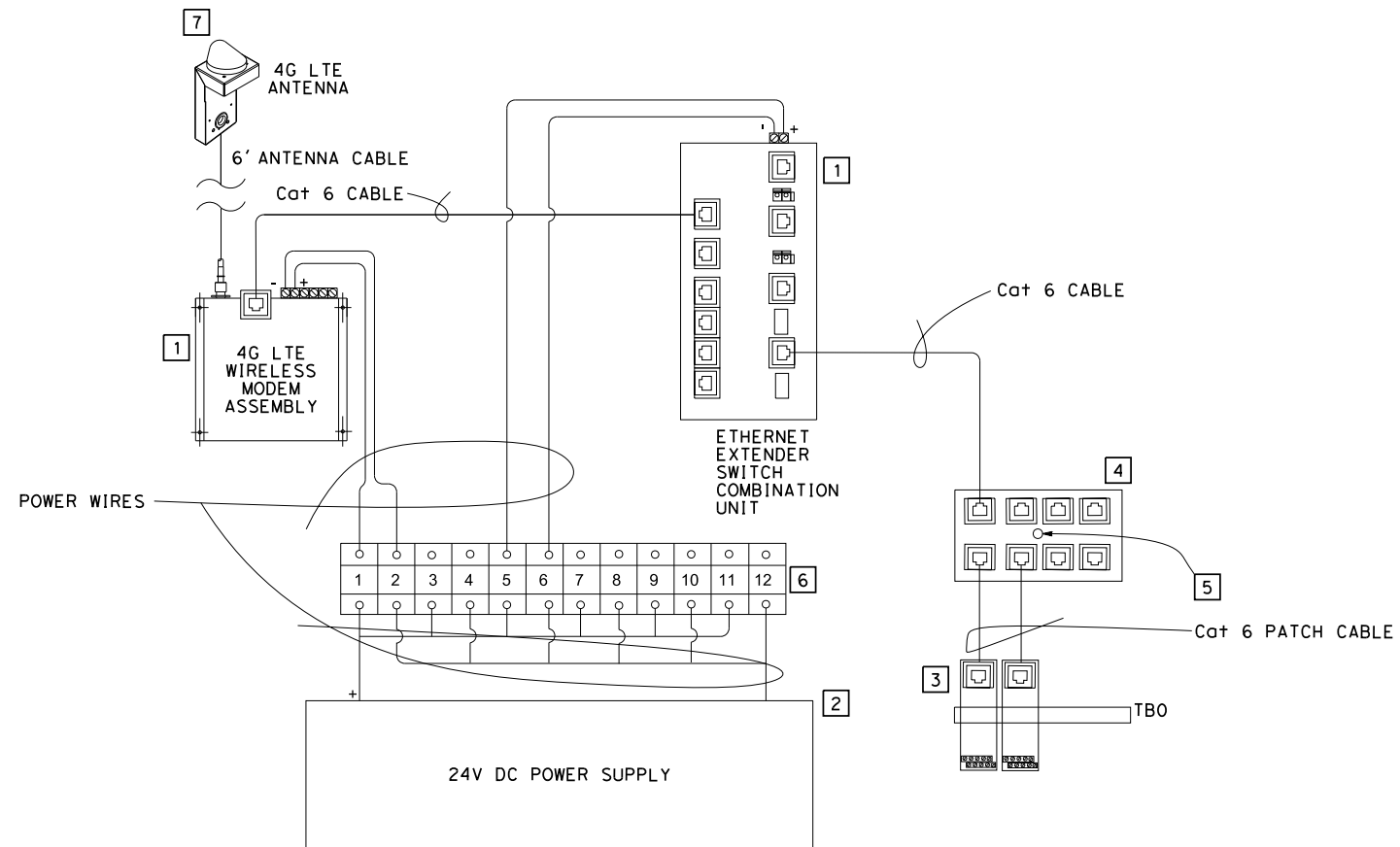
SHEET
 ED-2
 8 OF 14
 W.O. No. 73367

NOTE (THIS SHEET ONLY):

1. PROVIDE 6-5' LONG CAT 6 CABLES, AND 2-3' LONG RJ-11 TELEPHONE.
2. USE 2 PAIR, 22 AWG, STRANDED AND TINNED COPPER WIRES WITH PVC JACKET TYPE INSULATION AS SPECIFIED IN THE SPECIAL PROVISIONS FOR COMPONENT POWER WIRING.
3. TERMINATE TELEPHONE CABLE PER ENGINEER'S INSTRUCTION IN THE FIELD.

LEGEND: (FOR THIS SHEET ONLY)

1. INSTALL 4G (LTE) WIRELESS MODEM ASSEMBLY AND ETHERNET EXTENDER SWITCH COMBINATION UNIT ON DIN RAIL AS SHOWN IN DETAILS A.
2. INSTALL 24 VDC POWER SUPPLY ON DIN RAIL.
3. REMOVE EXISTING TERMINAL BLOCK TBO AND INSTALL TWO 8P8C (EIA568B, RJ-45) AND TWO 6P2C (RJ-11) MODULAR CONNECTORS ON DIN RAIL.
4. INSTALL DATA SURGE SUPPRESSOR AS SHOWN. THE CONTRACTOR HAS THE OPTION TO INSTALL TWO TWO-LINE SURGE PROTECTORS, ONE FOR RJ-45 AND ONE FOR RJ-11.
5. CONNECT SOLID #10 GROUND WIRE TO EQUIPMENT GROUND.
6. INSTALL DC TERMINAL BLOCK ON DIN RAIL.
7. INSTALL 4G (LTE) ANTENNA AND RUN ANTENNA CABLE PER MANUFACTURER RECOMMENDATION.

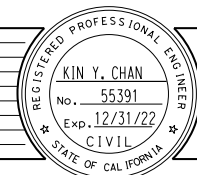


EQUIPMENT INTERCONNECTION (TYPICAL)
DETAIL A

ELECTRICAL SYSTEMS DETAILS

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REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 REGISTERED CIVIL ENGINEER
 DATE: 03-17-20

DESIGNED: KYC
 DRAWN: CL
 CHECKED: DKY
 DATE: 03/17/21
 ROAD NUMBER: 004

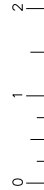


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

BASS LAKE EASTBOUND
 OFF RAMP SIGNALS

SHEET
 ED-3
 9 OF 14
 W.O. No. 73367

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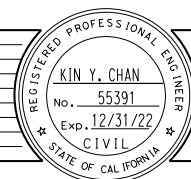
PAVEMENT DELINEATION QUANTITIES

SHEET No.	(N)					REMOVE PAVEMENT MARKING	REMOVE TRAFFIC STRIPE		
	THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING			LIMIT LINES			ARROWS	WORDS
	27B	4" SOLID WHITE	LF	SQFT					
PD-1	10	83	149	63	126	118			
TOTAL:	10		295		126	118			

(N) - NOT A SEPARATE BID ITEM

PAVEMENT DELINEATION QUANTITIES

NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 03-17-20

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 DRAWN: CL
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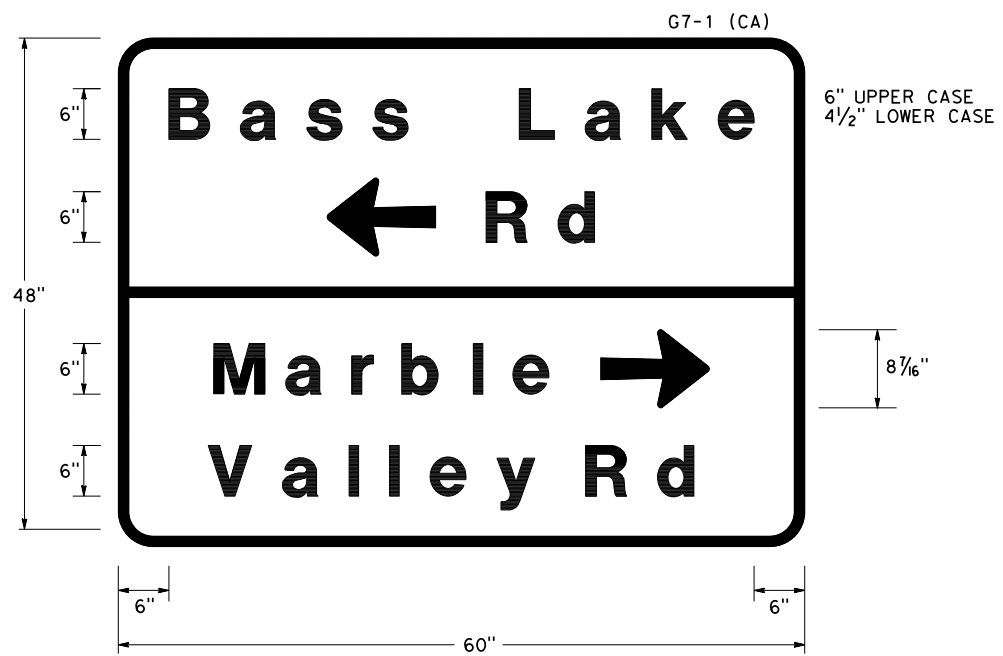


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

BASS LAKE EASTBOUND
 OFF RAMP SIGNALS

SHEET
 PDQ-1
 12 OF 14
 W.O. No. 73367

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SIGN DETAILS

REVISION NUMBER DATE DESCRIPTION BY			PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE: 03-17-20	DESIGNED: KYC DRAWN: CL CHECKED: DATE: 03/17/21 ROAD NUMBER: 004	COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	BASS LAKE EASTBOUND OFF RAMP SIGNALS	SHEET SD-1 13 OF 14 W.O. No. 73367

NOTES: (FOR THIS SHEET ONLY)

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
2. POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTHS TO BE DETERMINED BY THE ENGINEER.
3. SIGN PANEL TO BE MOUNTED ON SIGNAL MAST ARM. SEE ELECTRICAL PLANS FOR DETAILS.

ROADWAY SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN CODE	SIGN PANEL SIZE (INCHES)	(N)						REMARKS		
				INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	METAL (ROADSIDE SIGN)	REMOVE ROADSIDE SIGN					
				EA	EA	EA	STEEL POST	STRAP AND SADDLE BRACKET METHOD	PANEL			
PD-1	1-1	W3-1							1			
		W3-3	30 x 30		1							
	1-2	R1-1									1	
		R10-11		24 x 30	1							
		R6-1(B-B)									2	
	1-3	R3-4		24 x 24								SEE NOTE 3
	1-4	G7-1(CA)(MARBLE VALLEY RD)						1				
	1-5	G7-1(CA)		60 x 48		1						SEE NOTE 4 ON SHEET PD-1
	1-6	R3-18		24 x 24								SEE NOTE 3
	1-7	W12-2							1			
	1-8	R3-1		24 x 24			1					
	1-9	W3-3		30 x 30		1						
1-10	W12-2(15'-3")		30 x 30			1						
1-11	R10-11		24 x 30								SEE NOTE 3	
1-12	R6-1(B-B)		36 x 12			1						
TOTAL:					1	3	3	1	2	3		

(N) - NOT A SEPARATE BID ITEM

ROADWAY SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN CODE	SIGN PANEL SIZE (INCHES)	SINGLE FACED	SIZE FACING MATERIAL				SIGN PANEL SUBSTRATE MATERIAL (SOFT)				REMARKS	
					BACKGROUND		LEGEND		PROTECTIVE FILM	ROADSIDE				
					SHEETING COLOR	REFLECTIVE ASTM TYPE	SHEETING COLOR	REFLECTIVE ASTM TYPE	PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN (UNFRAMED)	FURNISH SINGLE SHEET ALUMINUM SIGN (FRAMED)			
										0.063"	0.080"	0.063"		0.080"
PD-1	1-1	W3-3	30 x 30	X	YELLOW	XI	RED/BLACK/GREEN	XI/PLAIN/XI	X			6.25		
	1-2	R10-11	24 x 30	X	WHITE	XI	RED/BLACK	XI/PLAIN	X			5.00		
	1-3	R3-4	24 x 24	X	WHITE	XI	RED/BLACK	XI/PLAIN	X			4.00		
	1-5	G7-1(CA)	60 x 48	X	GREEN	XI	WHITE	XI	X	20.0				SEE SHEET SD-1 FOR SIGN DETAIL
	1-6	R3-18	24 x 24	X	WHITE	XI	RED/BLACK	XI/PLAIN	X			4.00		
	1-8	R3-1	24 x 24	X	WHITE	XI	RED/BLACK	XI/PLAIN	X			4.00		
	1-9	W3-3	30 x 30	X	YELLOW	XI	RED/BLACK/GREEN	XI/PLAIN/XI	X			6.25		
	1-10	W12-2(15'-3")	30 x 30	X	YELLOW	XI	BLACK	PLAIN	X			6.25		
	1-11	R10-11	24 x 30	X	WHITE	XI	RED/BLACK	XI/PLAIN	X			5.00		
	1-12	R6-1(B-B)	36 x 12	X	WHITE	XI	BLACK	PLAIN	X			3.00		
	TOTAL:										20.0	43.75		

(N) - NOT A SEPARATE BID ITEM

SIGN QUANTITIES

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil_3D\Projects\73367_Bass Lake EB Off Signals\Transmittals\Plan_Sheet.dwg Layout_Tab: Model Apr 14, 2020 - 11:33am SMCVey
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



PREPARED UNDER THE SUPERVISION OF:
 KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 REGISTERED CIVIL ENGINEER
 DATE: 03-17-20

DESIGNED: KYC
 DRAWN: CL
 CHECKED: DKY
 DATE: 03/17/21
 ROAD NUMBER: 004



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

BASS LAKE EASTBOUND
 OFF RAMP SIGNALS

SHEET
 SQ-1
 14 OF 14
 W.O. No. 73367