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**STRUCTURE PLANS**

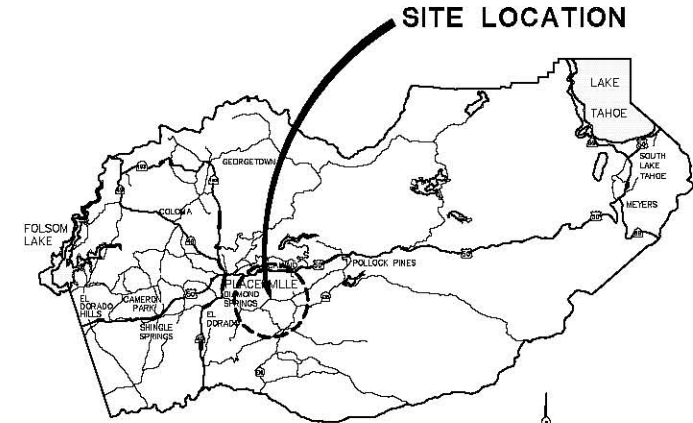
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# COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

## PROJECT PLANS FOR THE CONSTRUCTION OF CLEAR CREEK ROAD P.M. 0.25 BRIDGE REPLACEMENT

IN THE COUNTY OF EL DORADO, DISTRICT 2  
LOCATED OFF SLY PARK ROAD, A QUARTER MILE FROM THE  
INTERSECTION OF SLY PARK ROAD AND CLEAR CREEK ROAD

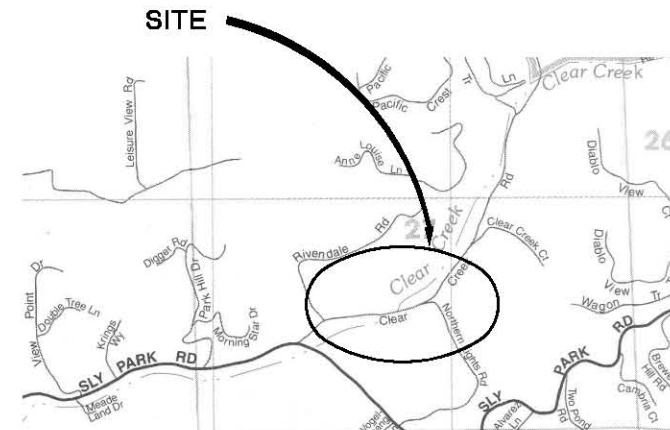
To be supplemented with Standard Plans and Specifications dated 2015, including  
the amendments to the 2015 Standard Specifications, of the California  
Department of Transportation, unless otherwise noted.



**VICINITY MAP**  
COUNTY OF EL DORADO



**SITE PLAN**  
SCALE: 1"=40'



**LOCATION MAP**  
NOT TO SCALE

**FUNDING AGENCY**

**BOARD OF SUPERVISORS**  
I JOHN HIDAH  
II SHIVA FRENTZEN  
III BRIAN VEERKAMP  
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:  
BRIAN VEERKAMP, CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS  
APPROVED BY:  
RAFAEL MARTINEZ, DIRECTOR, DEPARTMENT OF TRANSPORTATION  
MATTHEW D. SHELZER, P.E. NO. C56832, DEPUTY DIRECTOR, ENGINEERING

CONTRACT No. 4094 CIP NO. 77139  
**CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT**  
**TITLE SHEET**  
SHEET 1 OF 39

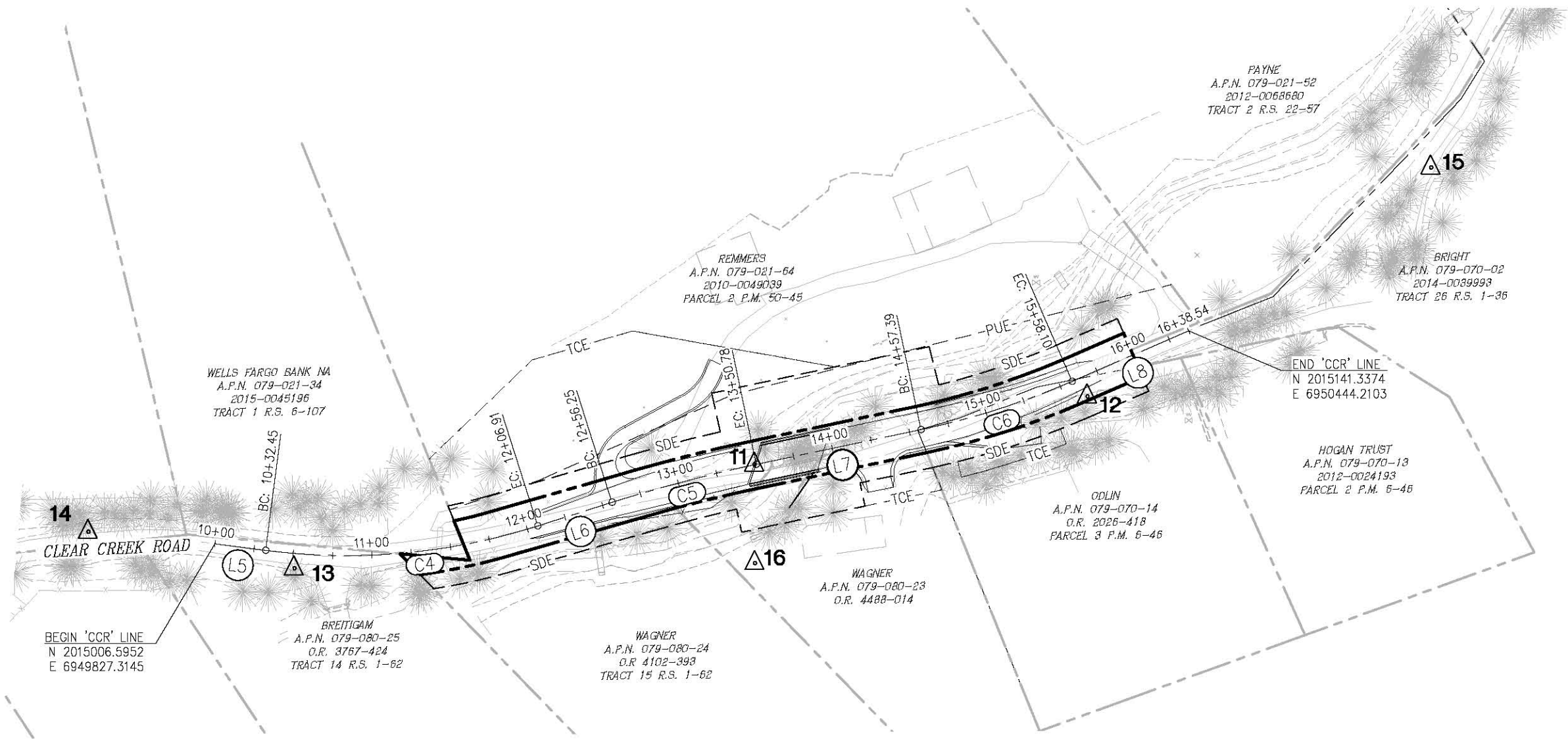
CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type 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.

MARK	DATE	BY



SUBMITTED BY: [Signature]  
CIVIL ENGINEER  
STATE OF CALIFORNIA NO. \_\_\_\_\_  
DATE \_\_\_\_\_

ORIGINAL SCALE IS IN INCHES  
 Drawing Name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\CD-1.dwg Layout Tab: CD-1 Feb 05 2020 - 12:59pm BRichards  
 FOR REDUCED PLANS



# DENOTES CONTROL POINT LOCATION

CCR-LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L5	32.45		S 82° 36' 51" E	
C4	174.46	400.00	N 84° 53' 27" E - 173.08	24° 59' 23"
L6	49.34		N 72° 23' 46" E	
C5	94.53	950.00	N 75° 14' 48" E - 94.49	5° 42' 04"
L7	106.62		N 78° 05' 50" E	
C6	100.71	500.00	N 72° 19' 37" E - 100.54	11° 32' 26"
L8	80.44		N 66° 33' 24" E	

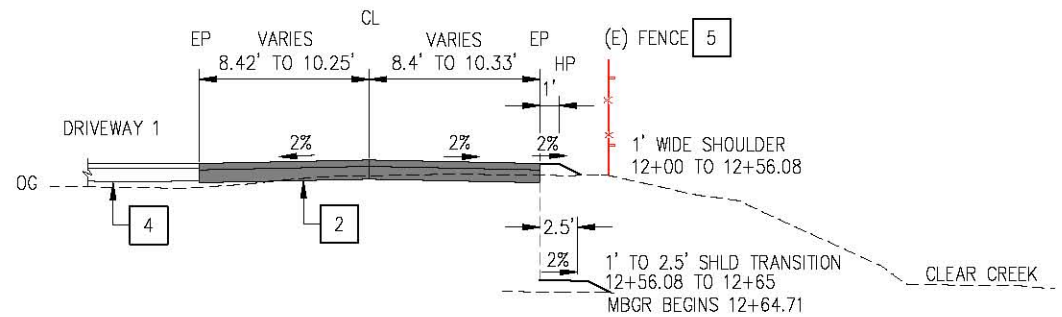
CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	2015056.7580	6950169.2370	2526.16	CP SPIKE
12	2015099.8360	6950380.1220	2528.16	CP SPIKE
13	2014991.0230	6949877.6670	2523.58	CP SPIKE
14	2015014.0950	6949747.1400	2523.87	CP SPIKE
15	2015244.6980	6950597.7870	2535.66	CP 60d
16	2014994.2890	6950169.5010	2528.60	AUX CP 60d

NOTE:  
 BEARINGS, DISTANCES, STATIONING AND COORDINATES SHOWN ARE BASED ON THE CALIFORNIA STATE COORDINATE SYSTEM, NAD 83 ZONE 2, EPOCH 1991.35 AND PER RECORD OF SURVEY BOOK \_\_\_, PAGE \_\_\_.  
 DISTANCES SHOWN ARE GRID DISTANCES. DIVIDE DISTANCES SHOWN BY 0.999823 TO OBTAIN GROUND DISTANCES.  
 ELEVATIONS SHOWN REFERENCE NGVD 29

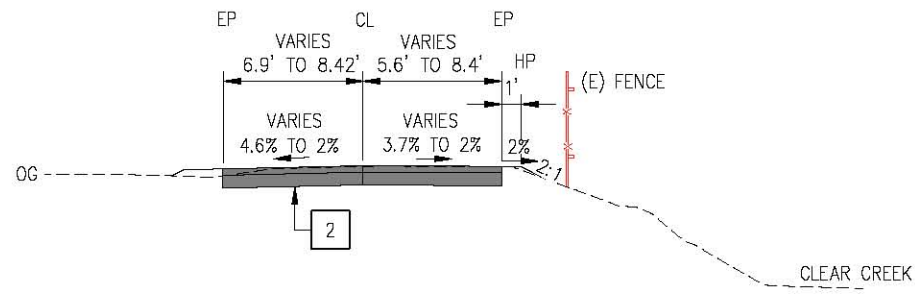
**SURVEY CONTROL DIAGRAM**  
 SCALE : 1" = 40'

REVISION NUMBER    DATE    DESCRIPTION    BY		PREPARED UNDER THE SUPERVISION OF:  PROFESSIONAL LAND SURVEYOR	DESIGNED: JCN    DRAWN: RR CHECKED: JCN    DATE: 2/5/20 ROAD NUMBER: 081		<b>COUNTY OF EL DORADO</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CLEAR CREEK ROAD P.M. 0.25</b> <b>BRIDGE REPLACEMENT</b>	SHEET <b>CD-1</b> 2 OF 39 W.O. No. <b>77139</b>
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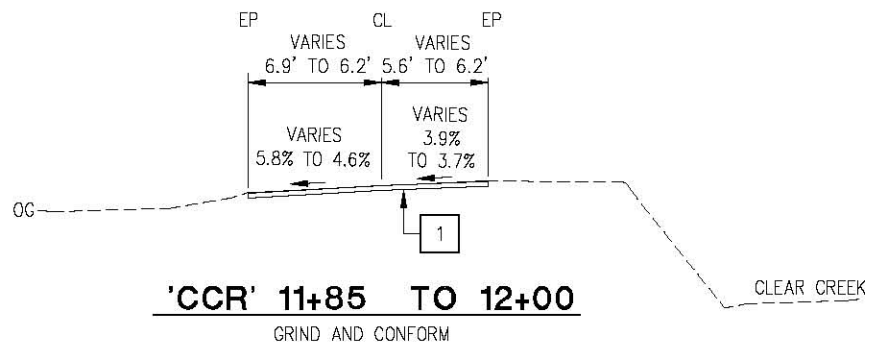
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 FOR REDUCED PLANS



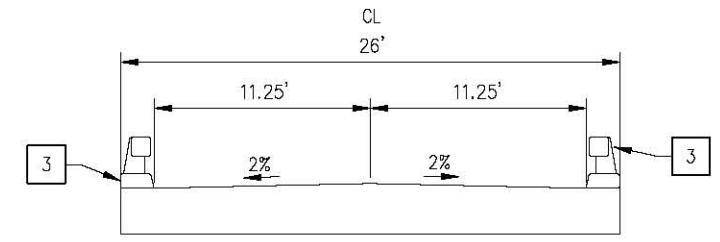
**'CCR' 12+41.26 TO 12+75.78**



**'CCR' 12+00 TO 12+41.26**



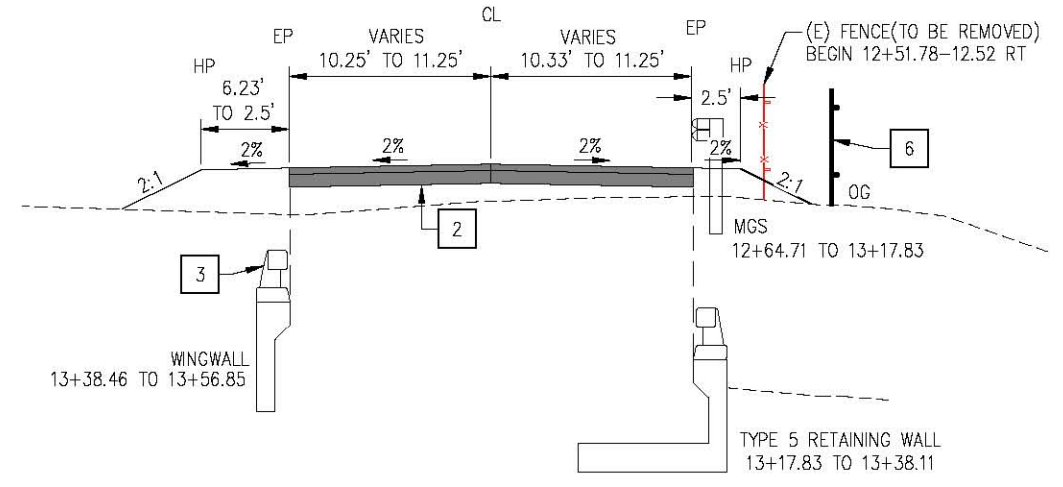
**'CCR' 11+85 TO 12+00**  
GRIND AND CONFORM



**'CCR' 13+50.50 BB TO 13+94.50 EB**

**CONSTRUCTION NOTES:**

- 1 - GRIND AND CONFORM, 0.15' MIN.
- 2 - 0.33' HMA, 0.67' AB
- 3 - CONCRETE BARRIER, TYPE 80 MODIFIED PER B11-60
- 4 - 0.25' HMA, 0.50' AB
- 5 - (E) FENCE AND ENTRY GATE TO REMAIN STA 11+85 TO 12+51.78
- 6 - PROPOSED FENCE ALIGNMENT SEE SHEET L-1



**'CCR' 12+75.78 TO 13+50.50 BB**

**NOTES:**

STATION/OFFSET DATA PER 'CCR' ALIGNMENT  
2:1 CUT/FILL UNLESS NOTED

**TYPICAL SECTIONS  
SCALE : 1"=5'**



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: JB  
 DRAWN: RR  
 CHECKED: JB  
 DATE: 2/5/20  
 ROAD NUMBER: 81

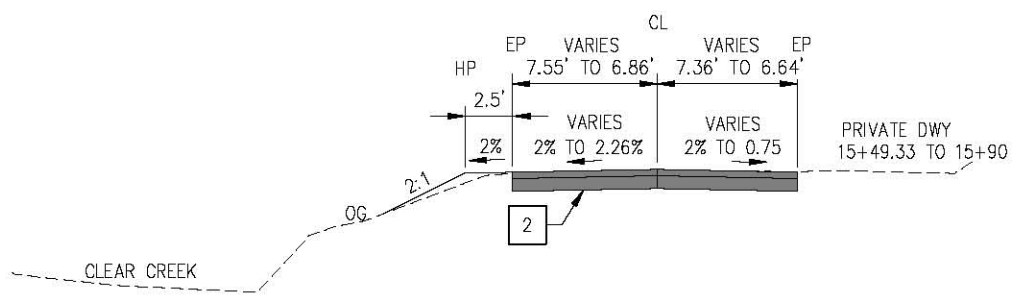


**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

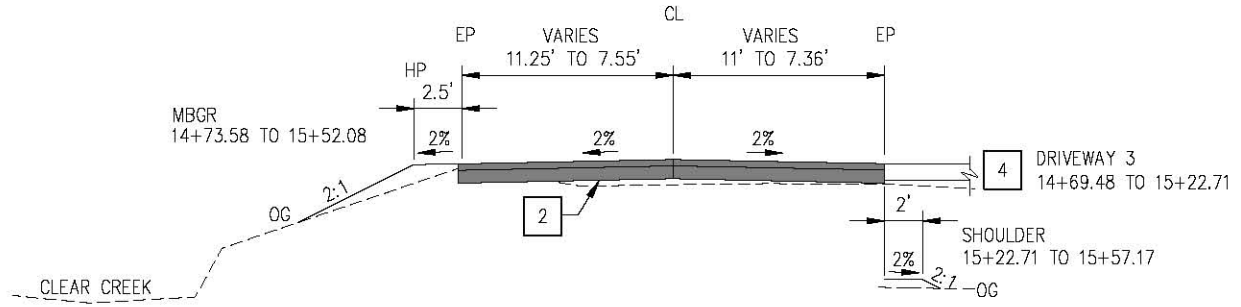
**CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT**

SHEET  
**X-1**  
3 OF 39  
W.O. No. **77139**

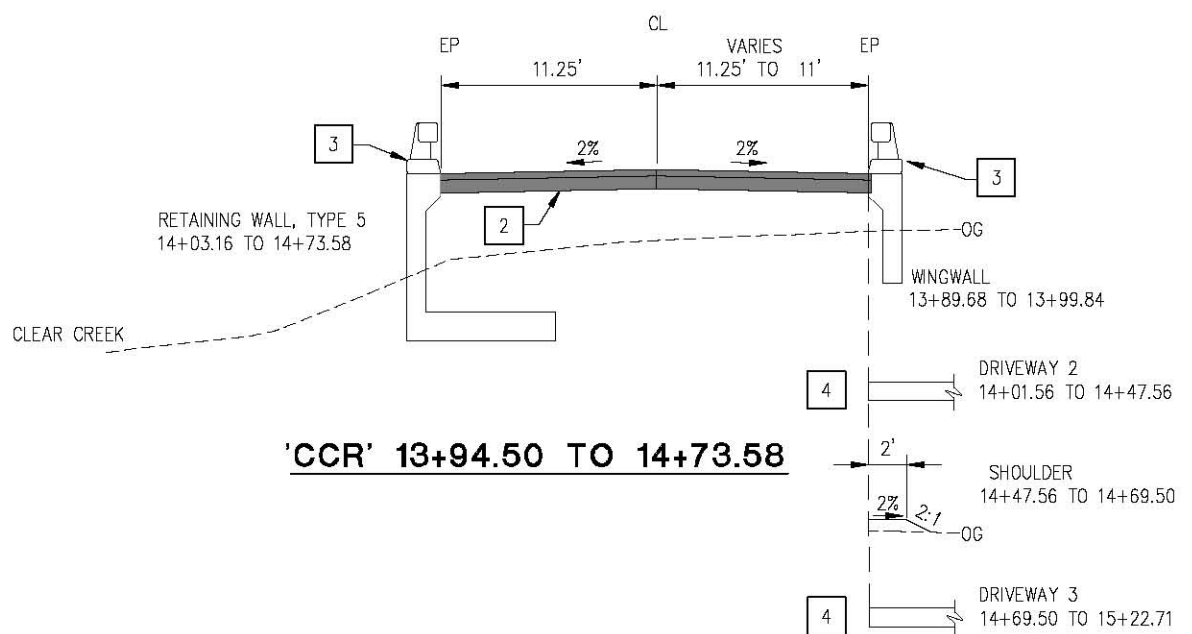
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 FOR REDUCED PLANS



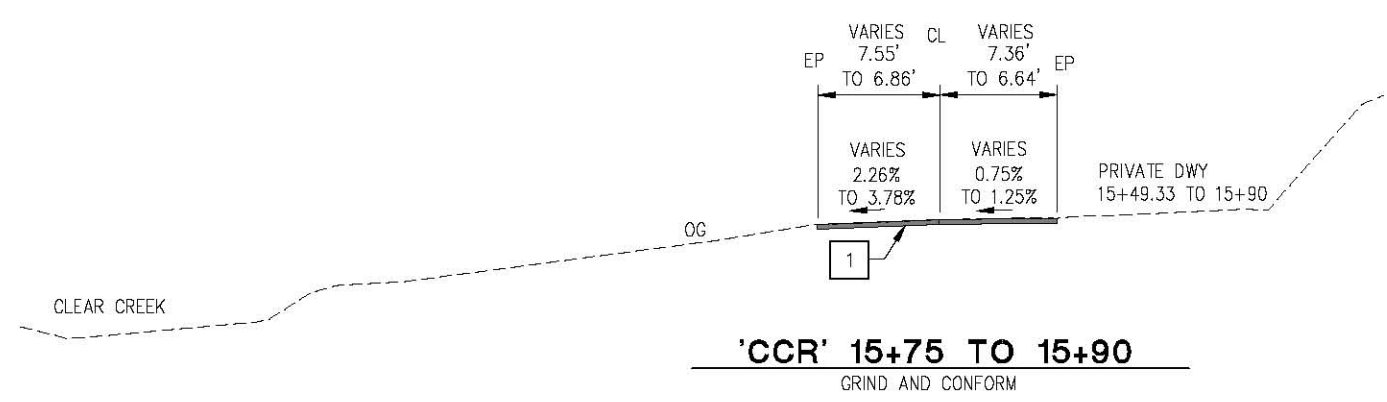
**'CCR' 15+60 TO 15+75**



**'CCR' 14+73.58 TO 15+60**



**'CCR' 13+94.50 TO 14+73.58**



**'CCR' 15+75 TO 15+90**  
GRIND AND CONFORM

**CONSTRUCTION NOTES:**

- 1 - GRIND AND CONFORM, 0.15' MIN.
- 2 - 0.33' HMA, 0.67' AB
- 3 - CONCRETE BARRIER, TYPE 80 MODIFIED PER B11-60
- 4 - 0.25' HMA, 0.50' AB

**NOTES:**

STATION/OFFSET DATA PER 'CCR' ALIGNMENT  
2:1 CUT/FILL UNLESS NOTED

TYPICAL SECTIONS  
SCALE : 1"=5'



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER

DESIGNED: JB  
DRAWN: RR  
CHECKED: JB  
DATE: 2/5/20  
ROAD NUMBER: 81

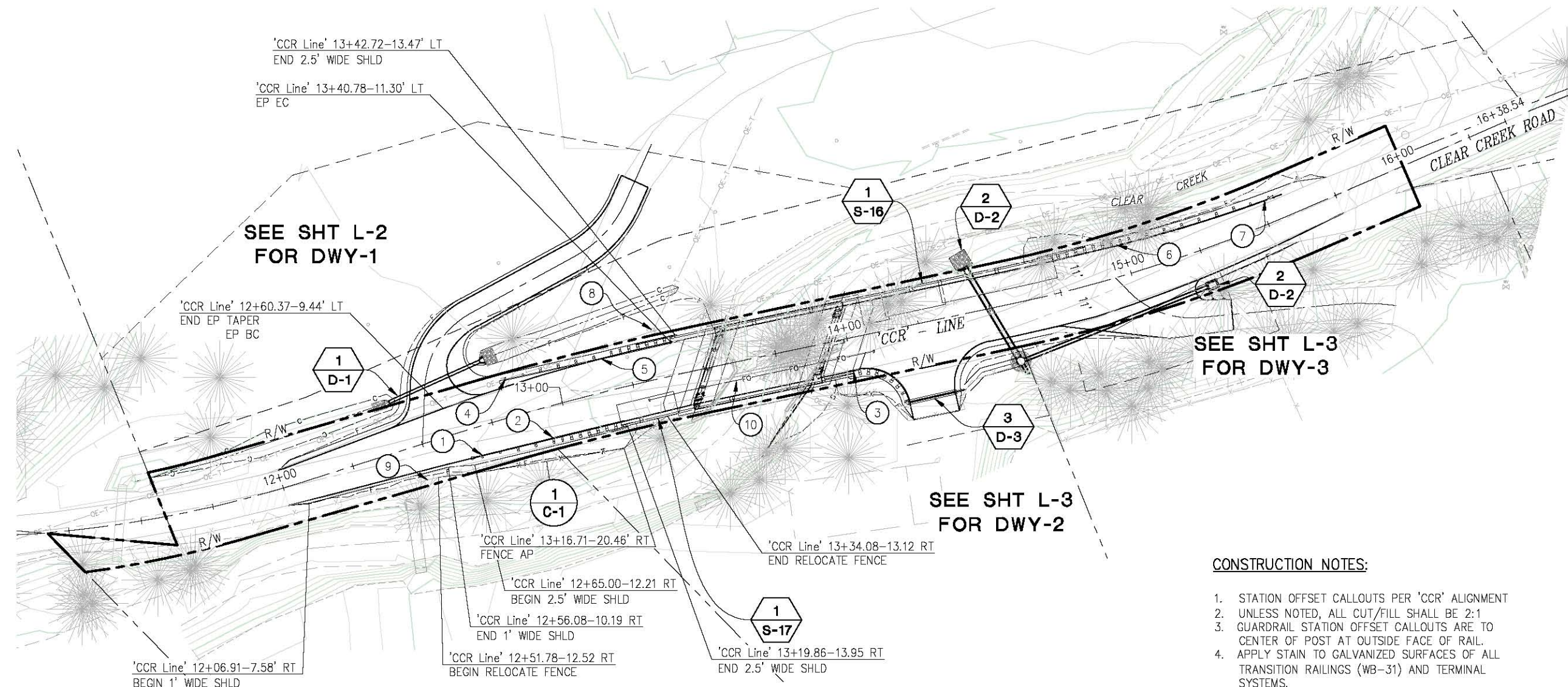


COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT

SHEET  
**X-2**  
4 OF 39  
W.O. No. 77139

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



**LEGEND**

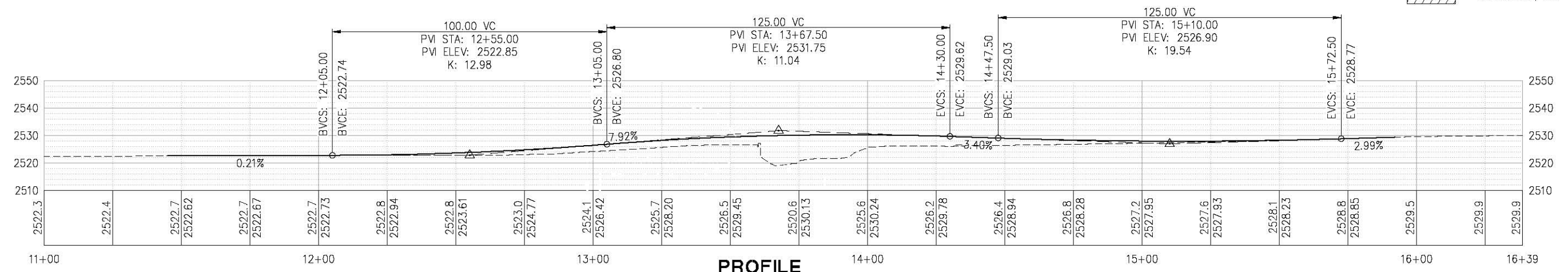
- \* ALL MGS TO BE INSTALLED USING THE NARROW ROADWAY INSTALLATION METHOD PER A77N3
- ① — 'CCR' 12+68.44-9.69' RT, BEGIN MGS IN-LINE TERMINAL SYSTEM, PER TL-2 RATED, 25' LONG.
- ② — 'CCR' 12+93.69-10.76' RT, END MGS TERMINAL SYSTEM. BEGIN TRANSITION RAILING (WB-31) PER A77U4
- ③ — 'CCR' 13+99.84-11.25 RT, END TYPE 80 BARRIER, BEGIN MGS TRANSITION RAILING (WB-31) PER A77U4. 'CCR' 14+02.02, BC, ONE ELEMENT SHOP CURVED TO 15' RADIUS
- ④ — 'CCR' 12+79.72-12.96 LT, BEGIN MGS IN-LINE TERMINAL SYSTEM.
- ⑤ — 'CCR' 13+16.71-11.25 LT, END MGS TERMINAL SYSTEM. BEGIN TRANSITION RAILING (WB-31) PER A77U4.
- ⑥ — 'CCR' 14+97.98-10.65 LT, END MGS TRANSITION RAILING (WB-31) PER A77U4. BEGIN IN-LINE TERMINAL SYSTEM, PER A77Q1
- ⑦ — 'CCR' 15+52.09-8.17 LT, END IN-LINE TERMINAL SYSTEM.
- ⑧ — UTILITY POLE TO BE RELOCATED TO 'CCR' 13+40.02-21.90 LT, SEE U-SHEET.
- ⑨ — PRESERVE & PROTECT EXISTING ENTRY GATE/DOORWAY & ADJACENT FENCING.
- ⑩ — 3" SCHEDULE 40 PVC CONDUIT FOR FUTURE USE. CAP 5' BEYOND APPROACH SLAB.

**CONSTRUCTION NOTES:**

1. STATION OFFSET CALLOUTS PER 'CCR' ALIGNMENT
2. UNLESS NOTED, ALL CUT/FILL SHALL BE 2:1
3. GUARDRAIL STATION OFFSET CALLOUTS ARE TO CENTER OF POST AT OUTSIDE FACE OF RAIL.
4. APPLY STAIN TO GALVANIZED SURFACES OF ALL TRANSITION RAILINGS (WB-31) AND TERMINAL SYSTEMS.
5. GUARDRAIL SYSTEMS MUST ALSO INCLUDE VEGETATION CONTROL (MP), PER A77N6, A77N7 AS APPLICABLE.

**PLAN**  
SCALE: 1"=20'

COLD PLANE AREA  
SEE DETAIL, SHT C-1



**PROFILE**

**LAYOUT-'CCR' LINE (CLEAR CREEK ROAD)**  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER

DESIGNED: JB	DRAWN: RR
CHECKED: JB	DATE: 2/5/20
ROAD NUMBER: 81	

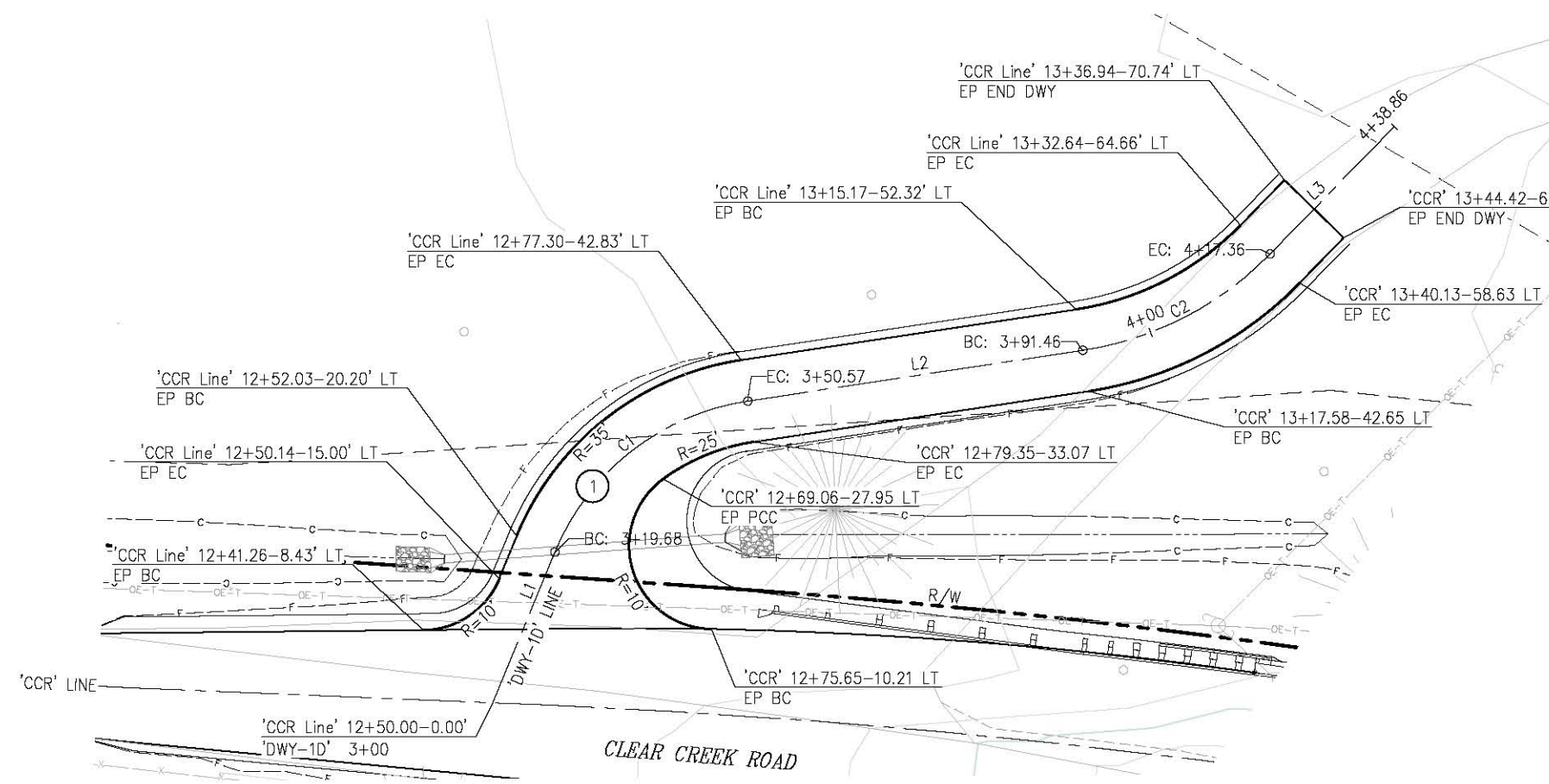


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET	L-1
OF	39
W.D. No.	77139

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



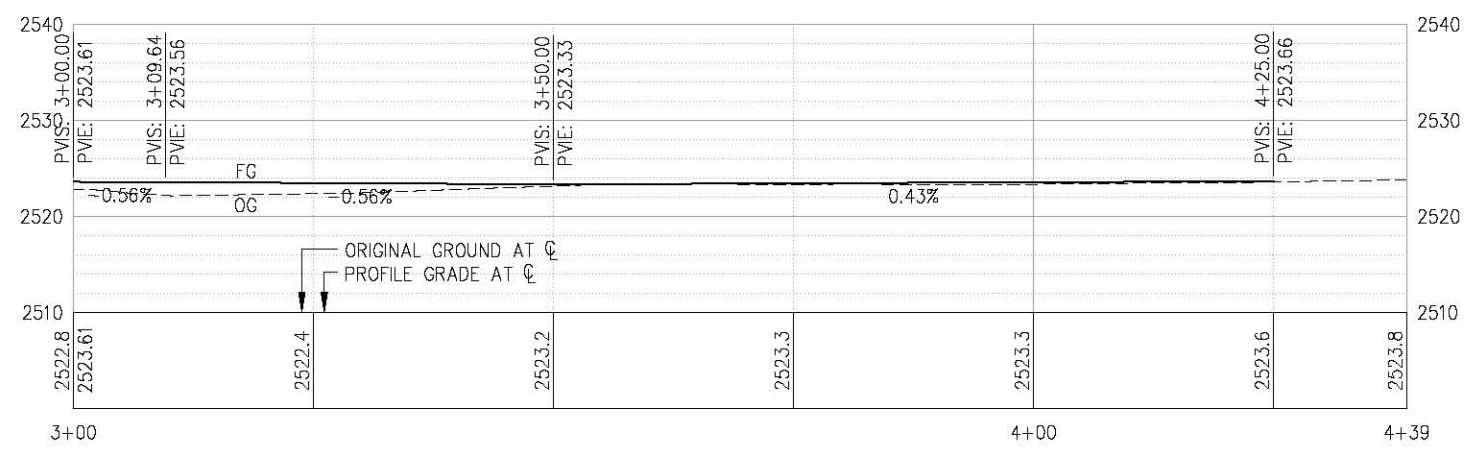
**PLAN**  
SCALE: 1"=10'

DWY 1D				
CENTERLINE DATA PER 'DWY-1D' ALIGNMENT				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	19.68		N 2' 23' 46" E	
C1	30.89	30.00	N 31' 53' 41" E - 29.54	58' 59" 50"
L2	40.89		N 61' 23' 36" E	
C2	25.90	40.00	N 42' 50' 38" E - 25.45	37' 05" 56"
L3	21.50		N 24' 17' 40" E	

**CONSTRUCTION NOTES:**

STATION OFFSETS PER 'CCR' LINE (CLEAR CREEK ROAD)  
 UNLESS NOTED, ALL CUT/FILL SHALL BE 2:1  
 SEE SHEET D-1 FOR DRAINAGE SYSTEM DETAILS

① 0.25' HMA (TYPE A) OVER 0.67' AB (CLASS 2)



**PROFILE**  
SCALE: 1"=10' H,V

LAYOUT - DRIVEWAY 1  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER  
 JONATHAN BALZER  
 No. C72291  
 License Expires 08-30-20  
 CIVIL  
 STATE OF CALIFORNIA  
 PREPARED UNDER THE SUPERVISION OF :  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE:

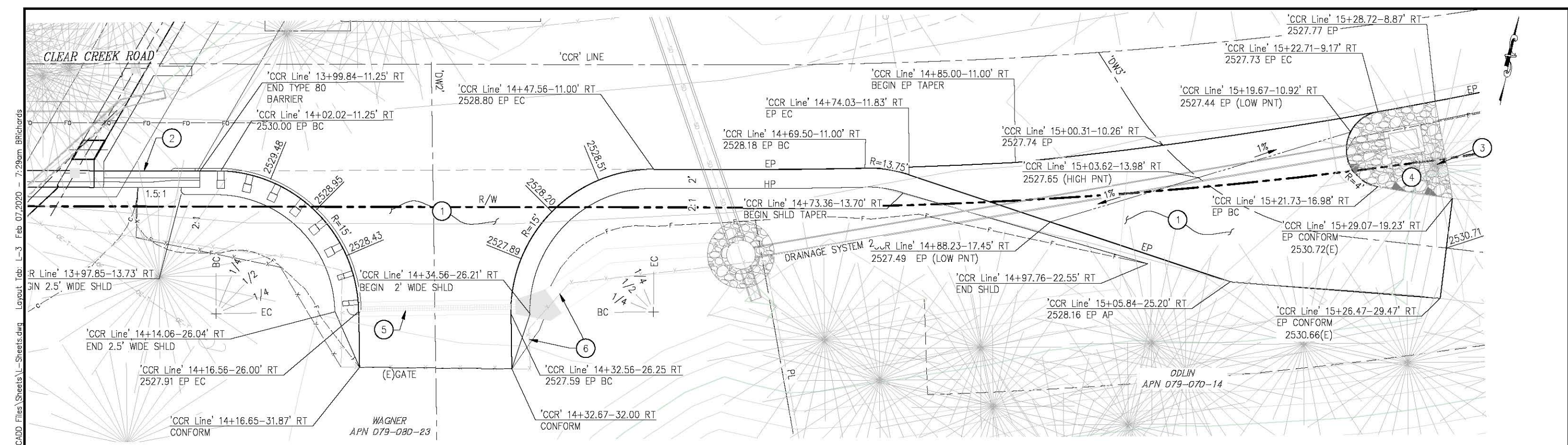
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CHECKED: JB	DATE: 2/5/20
ROAD NUMBER: 81	



COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT

SHEET	L-2
6 OF 39	
W.O. No.	77139



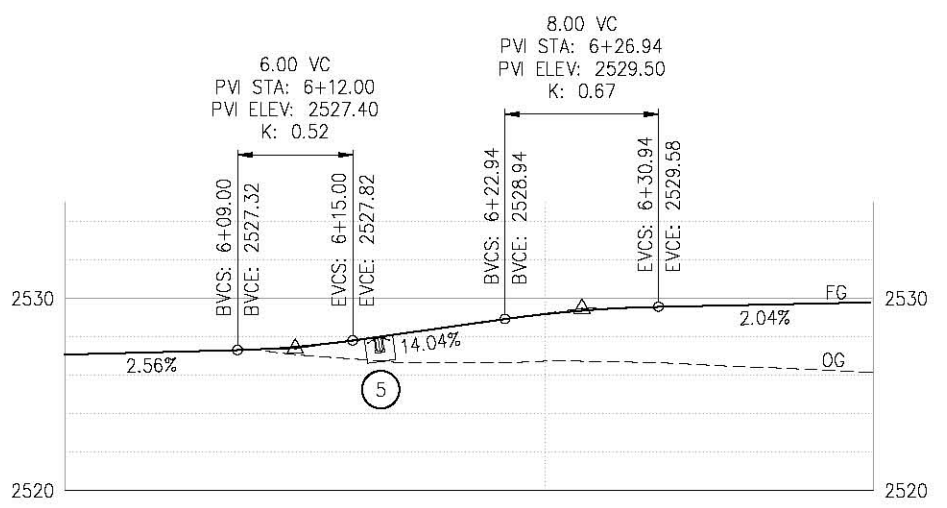
**PLAN DWY-2**  
SCALE: 1"=5'

**PLAN DWY-3**  
SCALE: 1"=5'

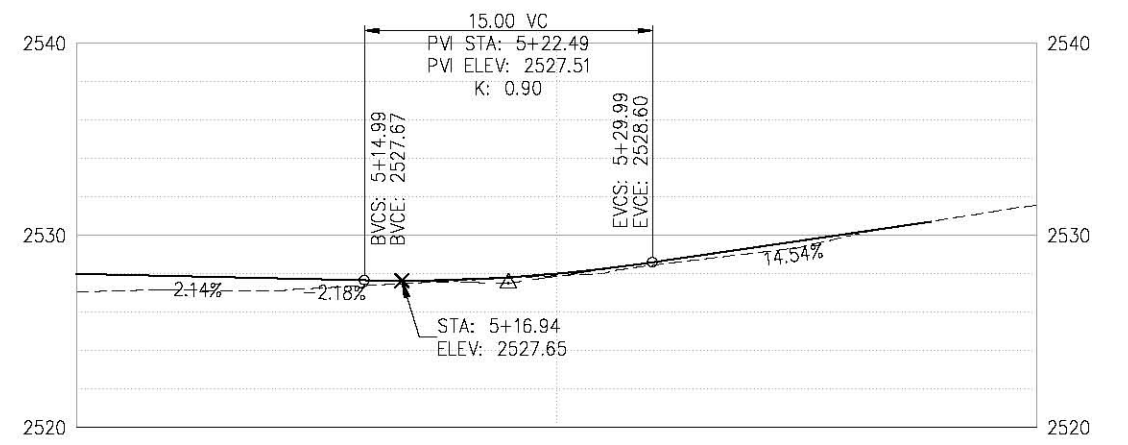
**CONSTRUCTION NOTES:**

STATION OFFSETS PER 'CCR' LINE (CLEAR CREEK ROAD)  
UNLESS NOTED, ALL CUT/FILL SHALL BE 2:1

- ① 0.25' HOT MIX ASPHALT (TYPE A) OVER 0.50' AB (CLASS 2)
- ② CONCRETE BARRIER, TYPE 80
- ③ REMOVE TREE AND ROOT BALL
- ④ CONCRETED RSP, SEE DRAINAGE PLANS
- ⑤ GRATED LINE DRAIN, SEE DRAINAGE PLANS
- ⑥ REMOVE LATTICE PANELS. REINSTALL AT THE COMPLETION OF DRAINAGE IMPROVEMENTS



**PROFILE DWY-2**  
SCALE: 1"=5' H,V  
(STATIONS IN PROFILE PER 'DWY-2' ALIGN)



**PROFILE DWY-3**  
SCALE: 1"=5' H,V  
(STATIONS PER 'DWY-3' ALIGN)

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil SD\Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\L-Sheets.dwg  
Layout Tab: L-3 Feb 07, 2020 7:29am BRichards

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: \_\_\_\_\_

DESIGNED: JIB RRR  
DRAWN: RRR  
CHECKED: JIB DATE: 2/5/20  
ROAD NUMBER: 81



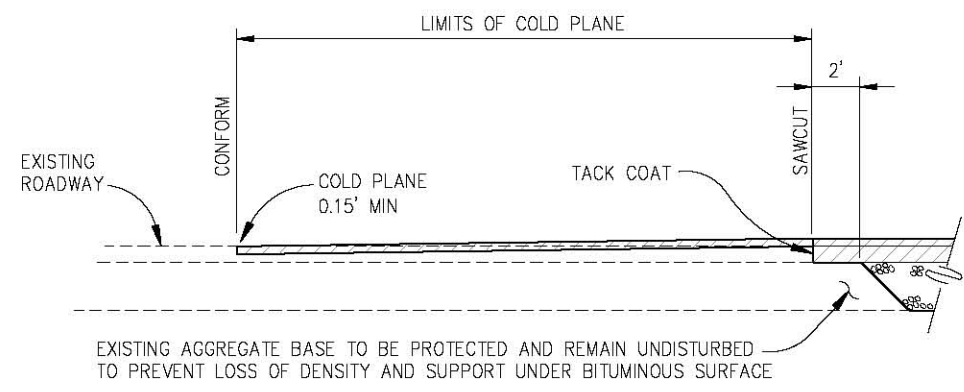
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

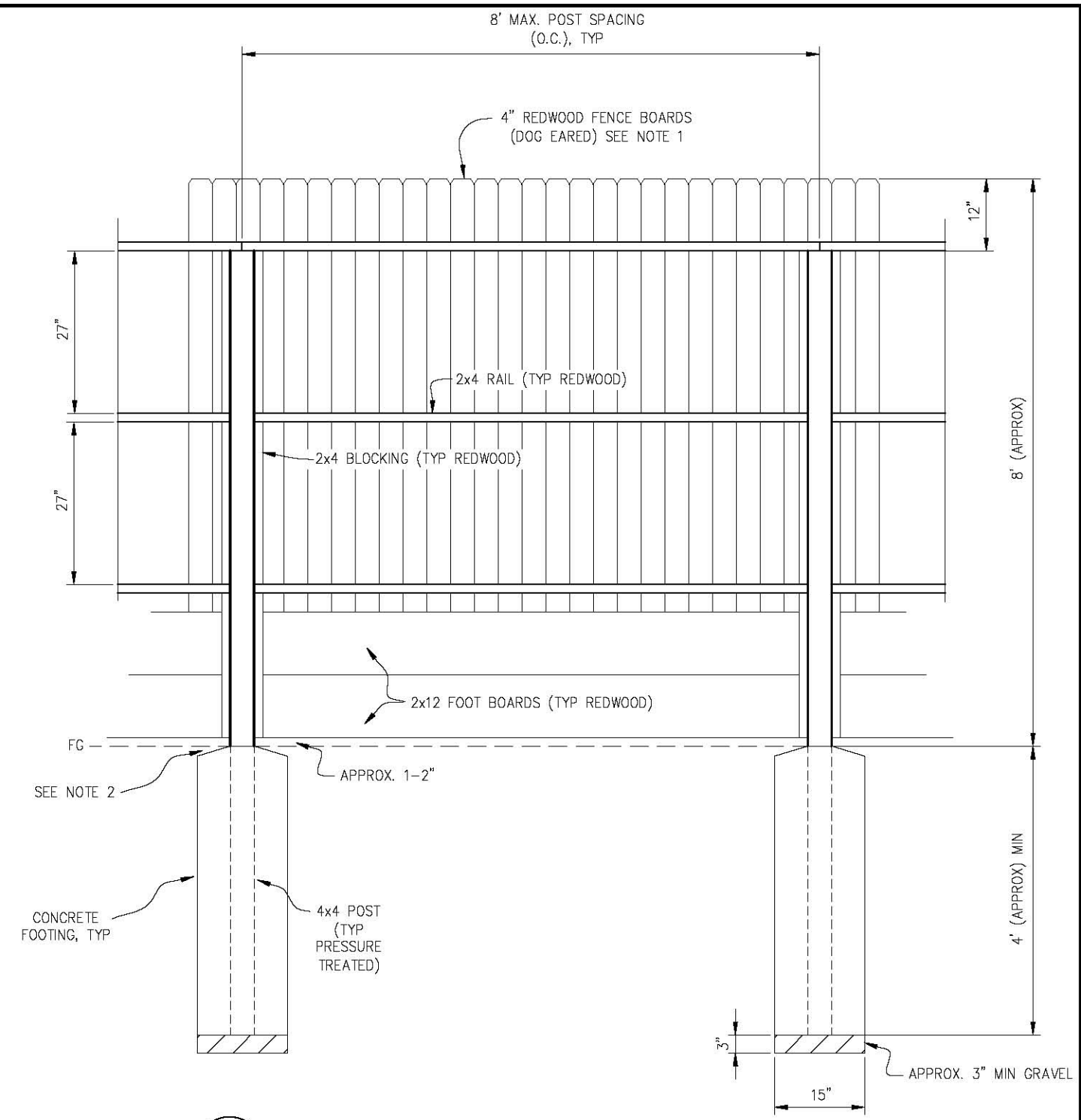
**LAYOUT**  
**DRIVEWAYS 2 & 3**  
**SCALE : AS NOTED**

SHEET  
**L-3**  
7 OF 39  
W.G. No. **77139**

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 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\C-1.dwg Layout Tab: C-1 Feb 05, 2020 - 1:21pm BRichards



**COLD PLANE CONFORM DETAIL**  
 SCALE: N.T.S.



**1 REDWOOD FENCE TYPICAL DETAIL**  
 PROFILE VIEW FROM WAGNER PROPERTY  
 NTS

- NOTES:**
- EXISTING FENCE BOARDS MAY BE SALVAGED AND REUSED (PARTIALLY OR FULLY) PENDING CONDITION
  - ENSURE PROPER DRAINAGE AROUND FENCE POSTS (I.E. DIRECT WATER AWAY FROM FENCE POSTS AND PROTECT FROM SCOUR) ADD RSP APRON AROUND POST COLLARS AND ALONG SLOPE ENBANKMENT AS NEEDED AND AS DIRECTED BY ENGINEER
  - ALL REDWOOD FENCE BOARDS MUST BE STAINED DARK "OXFORD" BROWN AND MATCH EXISTING.
  - USE ONLY COROSION RESISTANT NAILS AND FASTENERS (I.E. GALVANIZED)

**CONSTRUCTION DETAILS**  
 SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER  
 JONATHAN BALZER  
 No. C72291  
 License Expires 08-30-20  
 CIVIL  
 STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: JB	DRAWN: RR
CHECKED: JB	DATE: 2/5/20
ROAD NUMBER: 081	



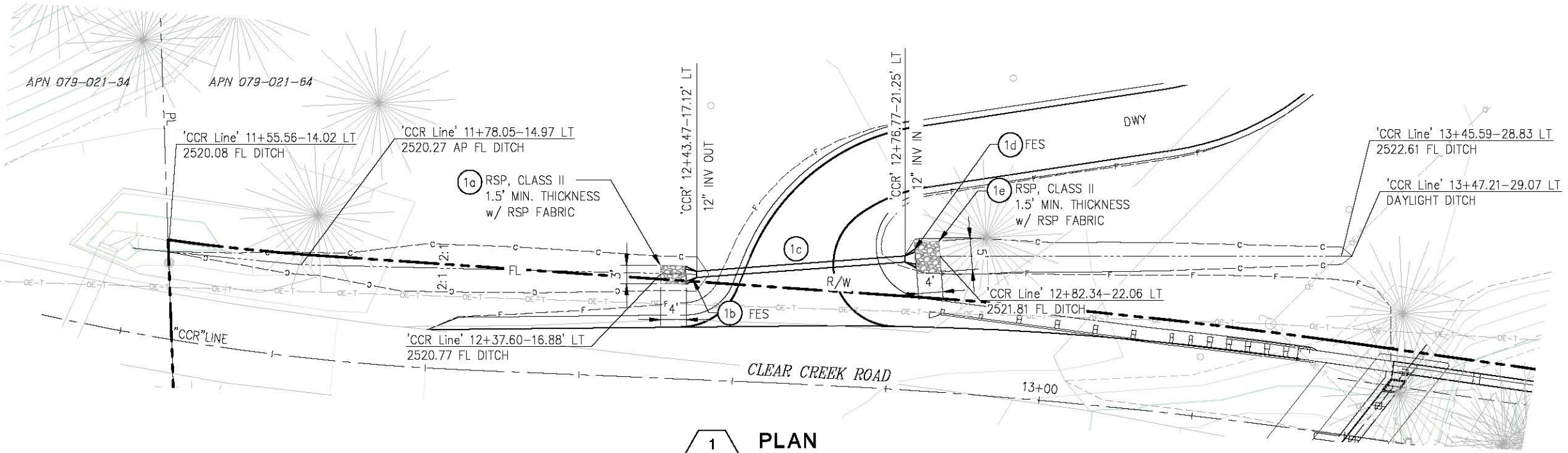
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET	C-1
8 OF 39	
W.O. No.	77139





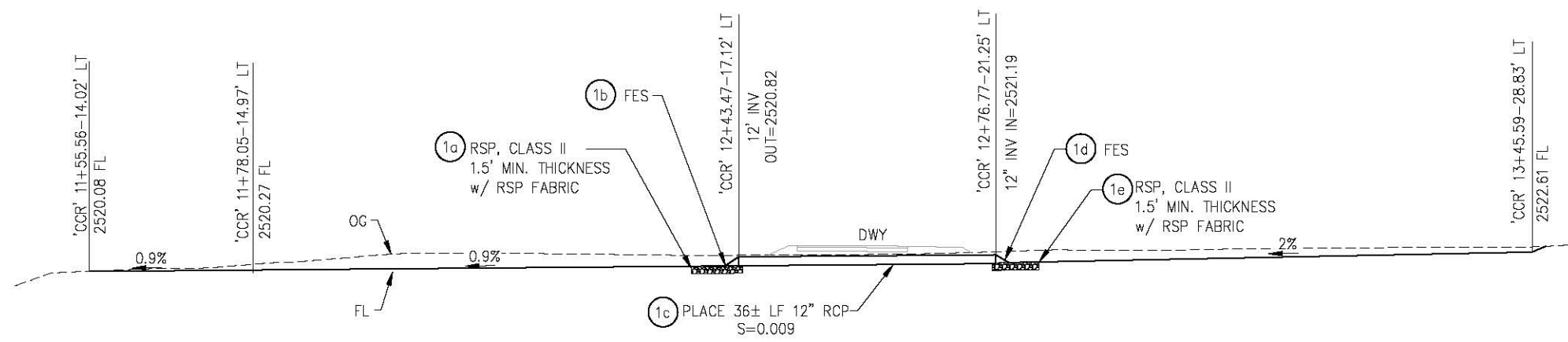
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 FOR REDUCED PLANS



**1 PLAN**  
SCALE: 1"=10'

**CONSTRUCTION NOTES:**  
 STATION OFFSET CALLOUTS PER CCR ALIGNMENT  
 UNLESS NOTED, 2:1 CUT/FILL


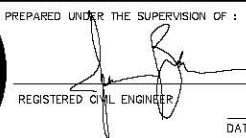
-  DRAINAGE SYSTEM
-  DRAINAGE ITEM



**1 PROFILE**  
SCALE: 1"=10' H,V

**DRAINAGE SYSTEM 1**  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY


 PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: JB	DRAWN: RR
CHECKED: JB	DATE: 2/5/20
ROAD NUMBER: 81	

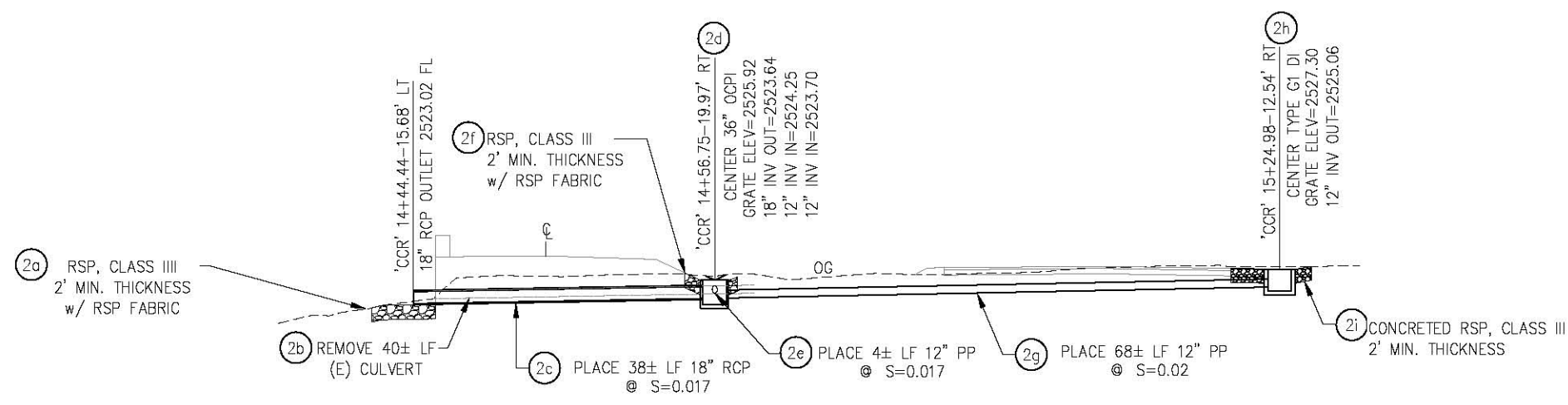
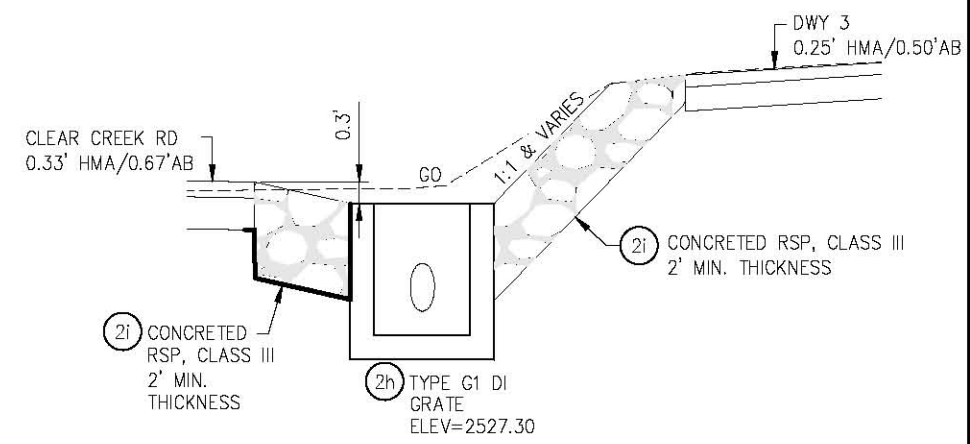
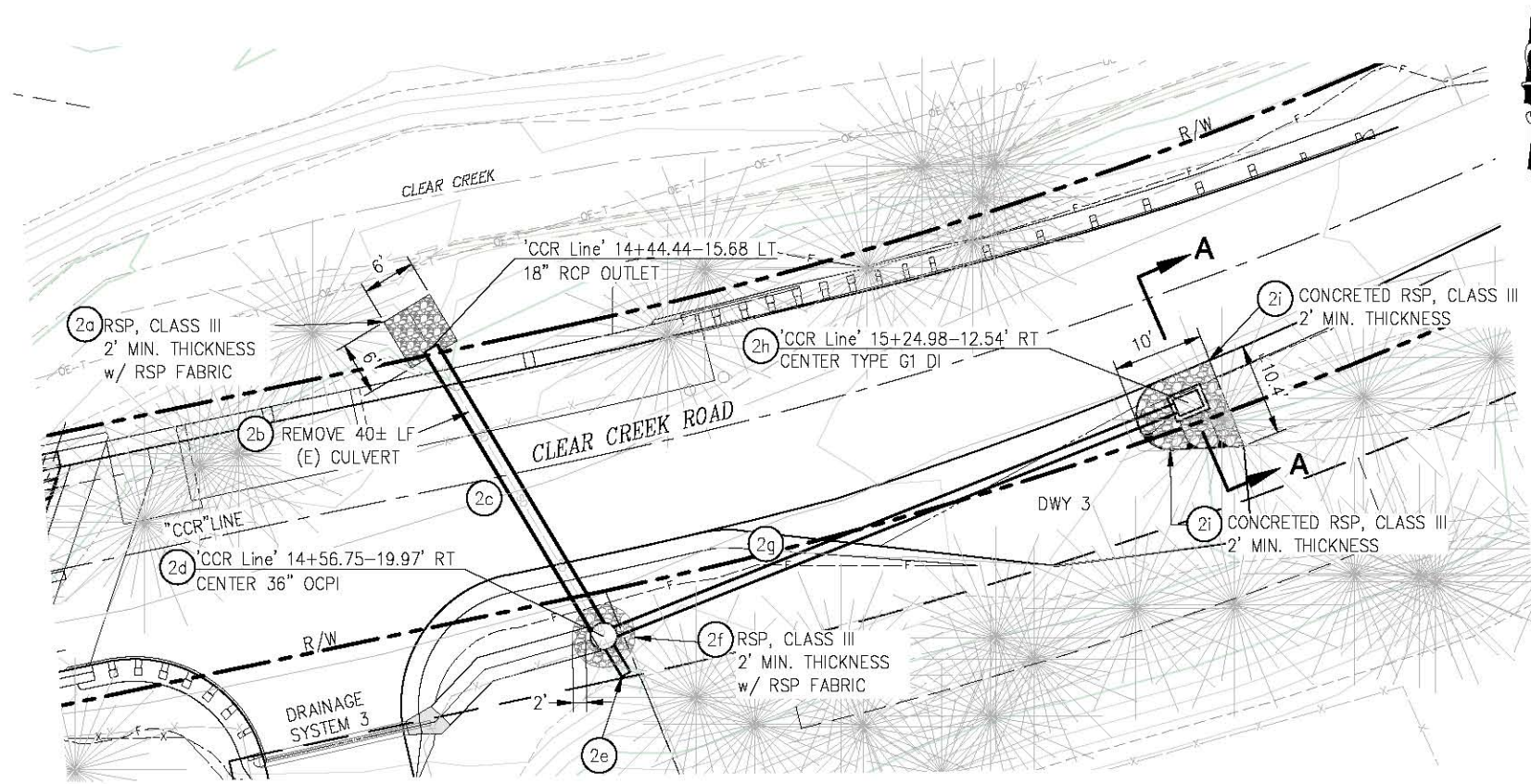


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET	D-1
9 OF 39	
W.O. No.	77139

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\0-Sheets.dwg Layout Tab: D-2, Feb 07, 2020 - 7:56am BRichards  
 FOR REDUCED PLANS



**CONSTRUCTION NOTES:**  
 STATION OFFSET CALLOUTS PER CCR ALIGNMENT

- DRAINAGE SYSTEM
- DRAINAGE ITEM

**DRAINAGE SYSTEM 2**  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF :  
 [Signature]  
 REGISTERED CIVIL ENGINEER

DESIGNED: JB  
 DRAWN: RR  
 CHECKED: JB  
 DATE: 2/5/20  
 ROAD NUMBER: 81

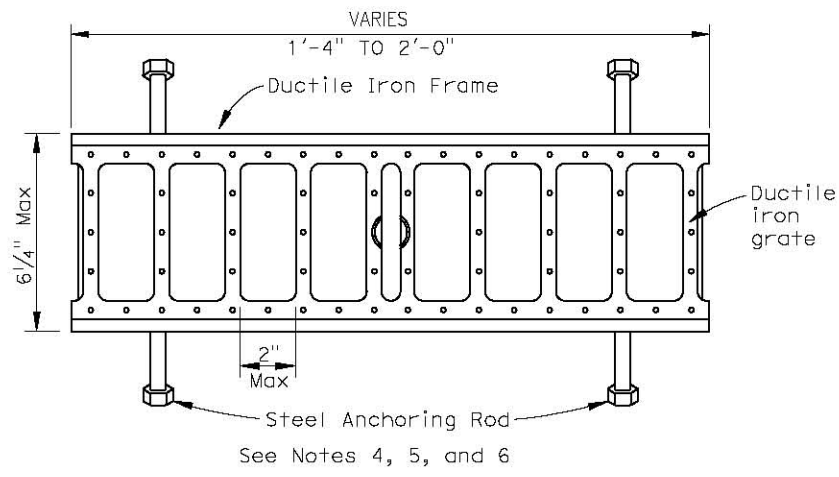


COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT

SHEET  
**D-2**  
 10 OF 39  
 W.O. No. 77139

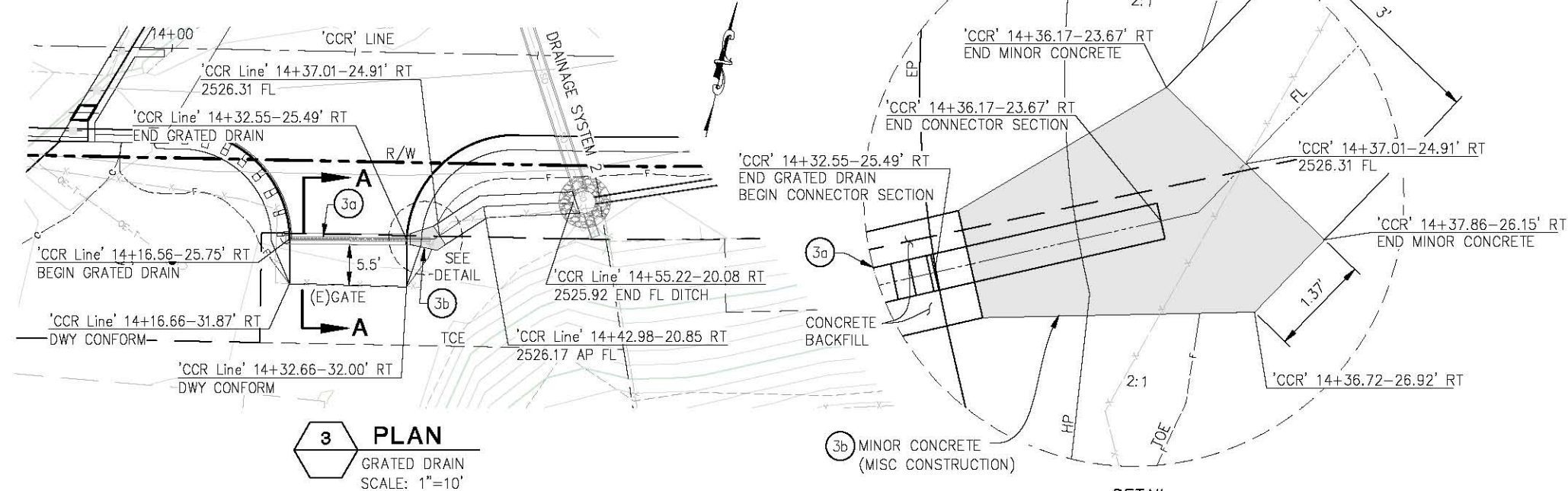
ORIGINAL SCALE: 1/8" = 1'-0" IN INCHES  
 FOR REDUCED PLANS  
 DRAWING NAME: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\0-Sheets.dwg  
 Layout Tab: D-3 Feb 07, 2020 8:01am BRichards



**CONSTRUCTION NOTES:**  
 STATION OFFSETS PER 'CCR' LINE  
 SEE GRATED LINE DRAIN PER D98C  
 FOR ADDITIONAL DETAILS.

- NOTES:**
1. Precast polymer concrete drain sections are available in non-sloped uniform depth sections 4 7/16" to 12" or in 0.6 percent pre-sloped sections with graduated depths from 4 7/16" to 12".
  2. Nominal dimensions shown. Allowable tolerance  $\pm 2\%$ .
  3. Within designated pedestrian paths of travel, the maximum grate opening in the direction of pedestrian traffic shall be 1/2".
  4. Grate patterns may vary from detail shown. Submit grate pattern to engineer for review and approval.
  5. Steel anchoring rods not used when frame is integral with polymer concrete grated line drain section.
  6. 3/16" maximum gap between adjacent gratings.

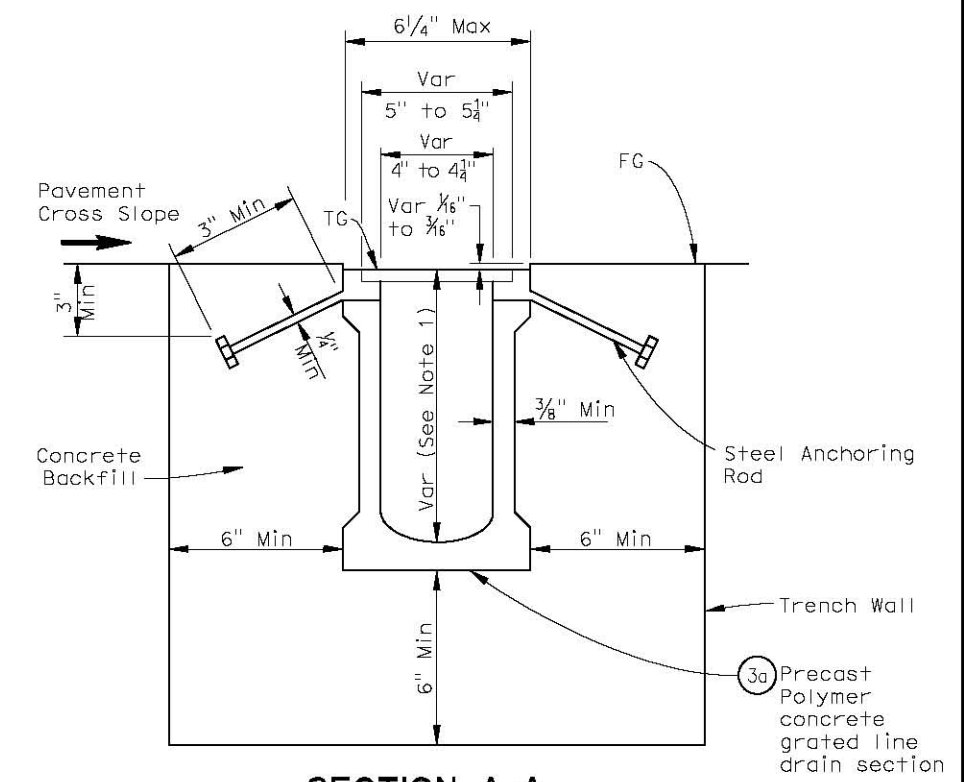
**GRATED LINE DRAIN FRAME AND GRATE DETAIL**



**3 PLAN**  
 GRATED DRAIN  
 SCALE: 1"=10'

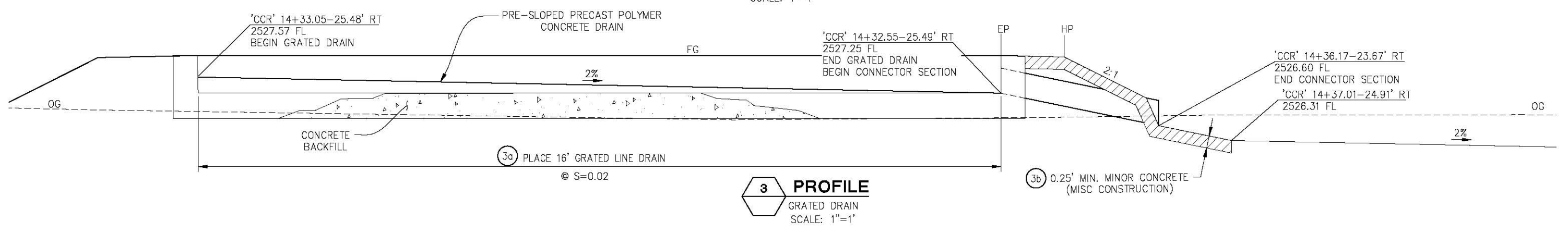
**3b** MINOR CONCRETE  
 (MISC CONSTRUCTION)

**DETAIL**  
 SCALE: 1"=1'



**SECTION A-A**

(Precast graded line drain with non-integral frame)  
 See Note 6



**3 PROFILE**  
 GRATED DRAIN  
 SCALE: 1"=1'

**3b** 0.25' MIN. MINOR CONCRETE  
 (MISC CONSTRUCTION)

**DRAINAGE SYSTEM 3**  
 SCALE: AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER  
 JONATHAN BALZER  
 No. C72291  
 License Expires 08-30-20  
 CIVIL  
 STATE OF CALIFORNIA  
 PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: JB	DRAWN: RR
CHECKED: JB	DATE: 2/5/20
ROAD NUMBER: 81	



**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET	D-3
11 OF 39	
W.O. No.	77139

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\0-Sheets.dwg Layout Tab: D-4 Feb 05, 2020 1:25pm BRichards

FOR REDUCED PLANS  
 0 1 2

PLAN SHEET NO.	SYSTEM NO.	DRAINAGE UNIT	12" PP	12" RCP	18" RCP	12" METAL FES	GRATED LINE DRAIN	MINOR CONCRETE (MISC CONSTRUCTION)	TYPE G1 INLET	36" DIA TYPE OCPI INLET	RSP (60 LB, CLASS II, METHOD B)	RSP (150 LB, CLASS III, METHOD B)	CONCRETED RSP, CLASS III	RSP FABRIC (CLASS 8)	REMOVE (E) 12" SD PIPE	CALTRANS STANDARD PLAN OR DETAIL REFERENCES	SLOPE	STATION	DRAINAGE UNIT	SYSTEM NO.	PLAN SHEET NO.	
D-1	1	a	LF	LF	LF	EA	LF	CY	EA	EA	1			5								
		b				1											D94A		12+43.47-17.12' LT			
		c		36														S=0.02			1	D-1
		d				1											D94A		12+43.47-17.12' LT			
		e										2		7								
D-2	2	a										3	10									
		b												40								
		c			38													S=0.017	14+44.44-15.68' LT			
		d									1						D75B		14+56.75-19.97' RT			
		e	4															S=0.017				
D-3	3	f		68								3	8				S=0.02					
		g																				
		h							1					7			D73		15+24.98-12.54' RT			
		i					19												14+16.05-25.76' RT			
		a						1														
TOTAL		72	36	38	2	19	1	1	1	3	6	7	30	40					TOTAL			

NOTES:  
STA/OFFSETS PER 'CCR' LINE

DRAINAGE QUANTITIES  
SCALE : NONE



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: JB  
 DRAWN: RR  
 CHECKED: JB  
 DATE: 2/5/20  
 ROAD NUMBER: 81

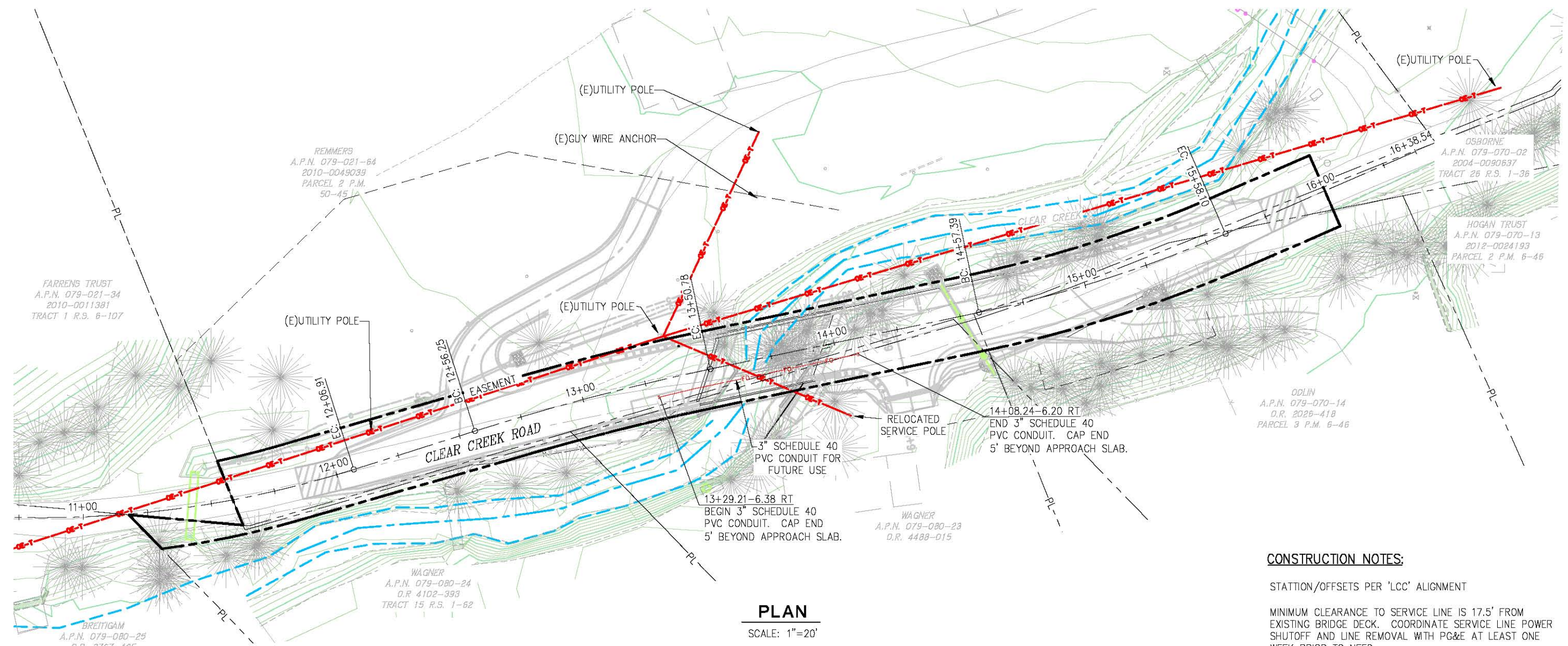


COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT

SHEET  
D-4  
12 OF 39  
W.O. No. 77139

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\U-1.dwg Layout Tab: U-1 Feb 05, 2020 - 1:26pm Bricard  
 FOR REDUCED PLANS



**PLAN**  
 SCALE: 1"=20'

**CONSTRUCTION NOTES:**

- STATION/OFFSETS PER 'LCC' ALIGNMENT
- MINIMUM CLEARANCE TO SERVICE LINE IS 17.5' FROM EXISTING BRIDGE DECK. COORDINATE SERVICE LINE POWER SHUTOFF AND LINE REMOVAL WITH PG&E AT LEAST ONE WEEK PRIOR TO NEED.
- INSTALL 3" SCHEDULE 40 PVC CONDUIT THROUGH BRIDGE DURING STAGE 2 CONSTRUCTION. USE RUBBER COMPRESSION COUPLINGS AT STRUCTURE JOINTS. SEE S-10 SHEET.

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED:	DRAWN:
JB	RR
CHECKED:	DATE:
JB	2/5/20
ROAD NUMBER:	
081	

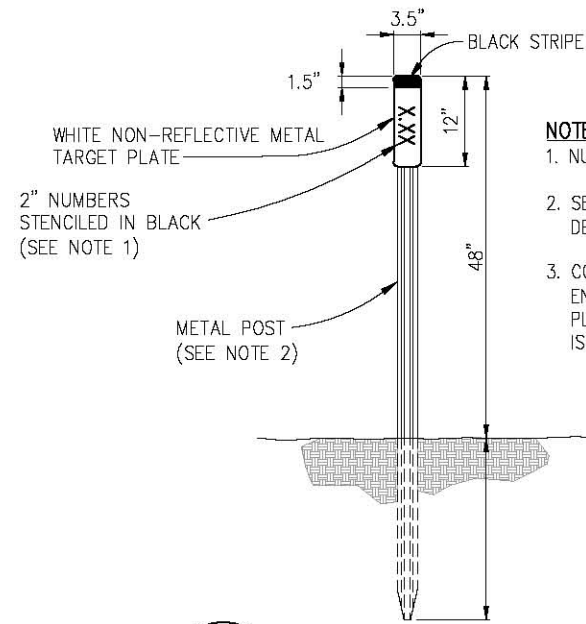


**COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD  
 P.M. 0.25 BRIDGE REPLACEMENT**

UTILITY PLAN  
 SCALE : AS NOTED  
 SHEET  
**U-1**  
 13 OF 39  
 W.O. No. **77139**

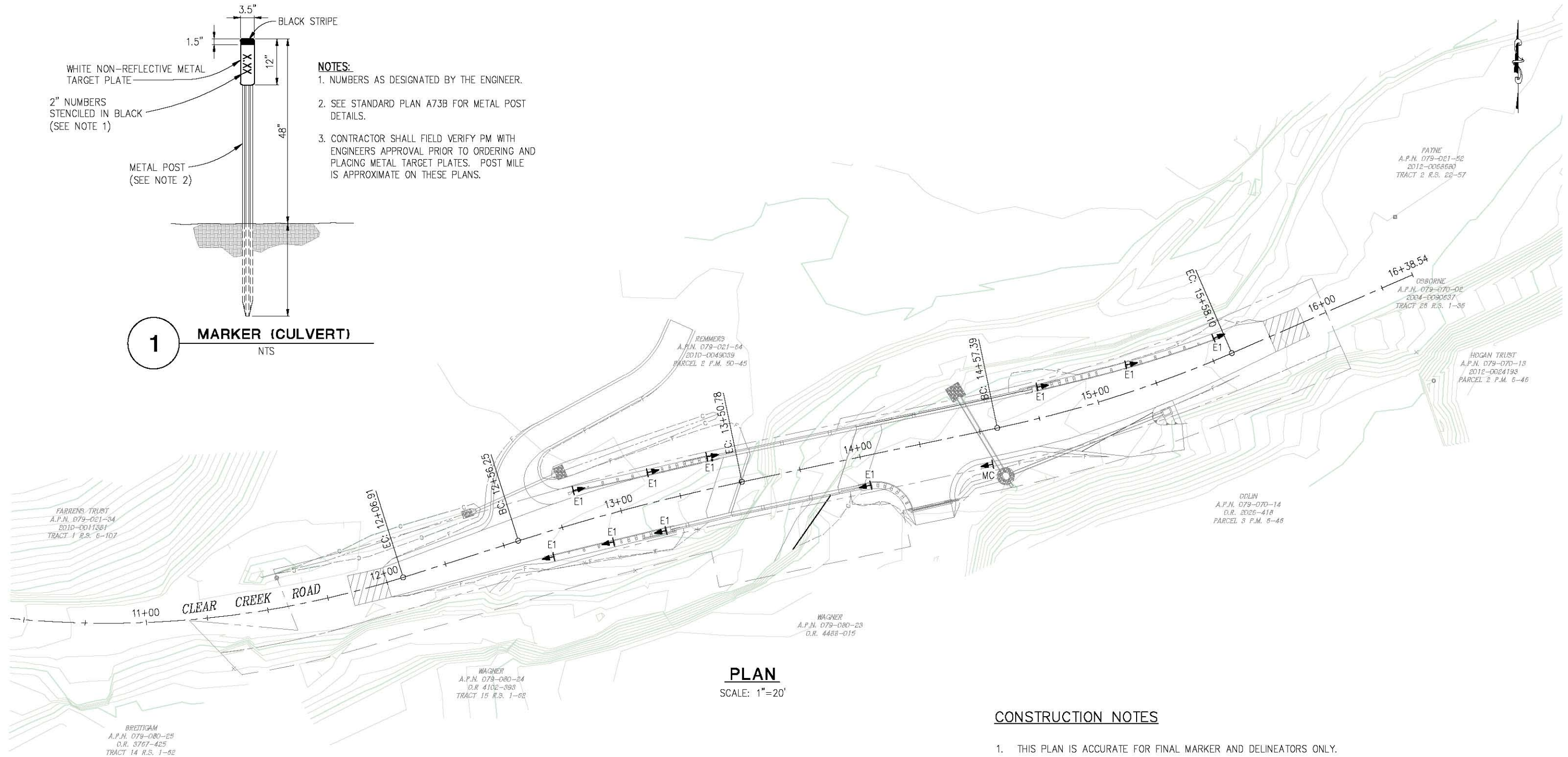
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 FOR REDUCED PLANS



**NOTES:**

1. NUMBERS AS DESIGNATED BY THE ENGINEER.
2. SEE STANDARD PLAN A73B FOR METAL POST DETAILS.
3. CONTRACTOR SHALL FIELD VERIFY PM WITH ENGINEERS APPROVAL PRIOR TO ORDERING AND PLACING METAL TARGET PLATES. POST MILE IS APPROXIMATE ON THESE PLANS.

**1** MARKER (CULVERT)  
NTS



**PLAN**  
SCALE: 1"=20'

**LEGEND**

- ▶ - PROPOSED MARKER/DELINEATOR
- MC = MARKER CULVERT, SEE DETAIL 1 THIS SHEET.
- E1 = DELINEATOR FASTENED TO MGS POSTS PER A77N4 (TOTAL-10)

**CONSTRUCTION NOTES**

1. THIS PLAN IS ACCURATE FOR FINAL MARKER AND DELINEATORS ONLY.
2. ALL EXISTING MARKERS/DELINEATORS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND SALVAGED UNLESS OTHERWISE NOTED.
3. ALL CULVERT MARKERS SHALL BE PLACED PER "MARKER (CULVERT)" DETAIL 1.
4. E1 DELINEATORS SHALL BE FASTENED TO MGS POSTS PER A77N4 (TOTAL-10)

THIS PLAN ACCURATE FOR MARKER AND DELINEATOR WORK ONLY

**MARKER AND DELINEATORS AS NOTED**



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: RR  
 DRAWN: RR  
 CHECKED: JB  
 DATE: 2/5/20  
 ROAD NUMBER: 81



**COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT**

SHEET  
**SPD-1**  
 14 OF 39  
 W.G. No. **77139**

REVISION	NUMBER	DATE	DESCRIPTION	BY

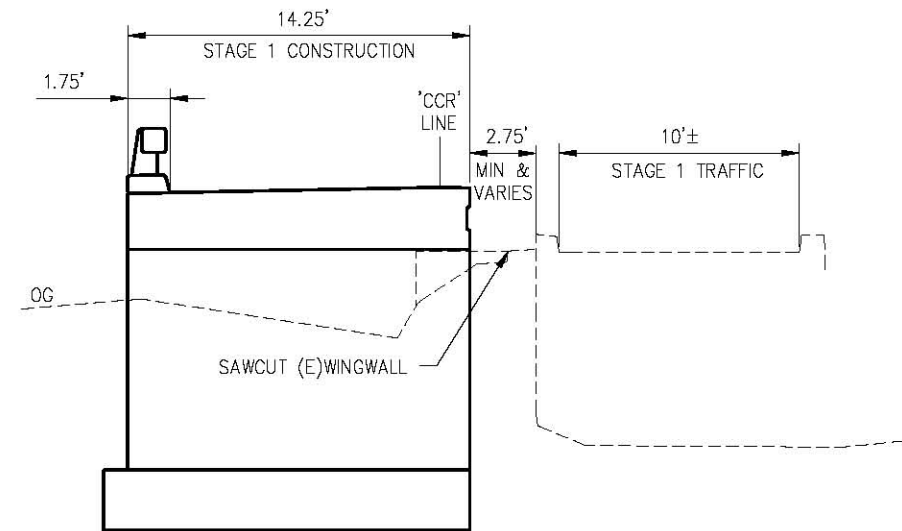
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 Layout Tab: SC-1 Feb 05, 2020 1:29pm BricHardis  
 FOR REDUCED PLANS  
 2  
 1  
 0

**GENERAL STAGE CONSTRUCTION NOTES:**

1. REFER TO THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC REQUIREMENTS WITHIN THE WORK AREA.
2. REMOVE ALL EXISTING STRIPING, MARKINGS, AND SIGNAGE THAT CONFLICT WITH THE TEMPORARY STRIPING TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY STRIPING.
3. ALL TEMPORARY STRIPING AND MARKINGS ARE TO BE PAINT UNLESS NOTED OTHERWISE.
4. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
5. SUBMIT TRAFFIC CONTROL PLANS TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS WHENEVER CONTRACTOR'S OPERATIONS REQUIRE MODIFICATIONS TO THE TRAFFIC CONTROL PLANS.
6. SUBMIT WATER DIVERSION PLAN PER ENGINEERS APPROVED SHOP PLANS.

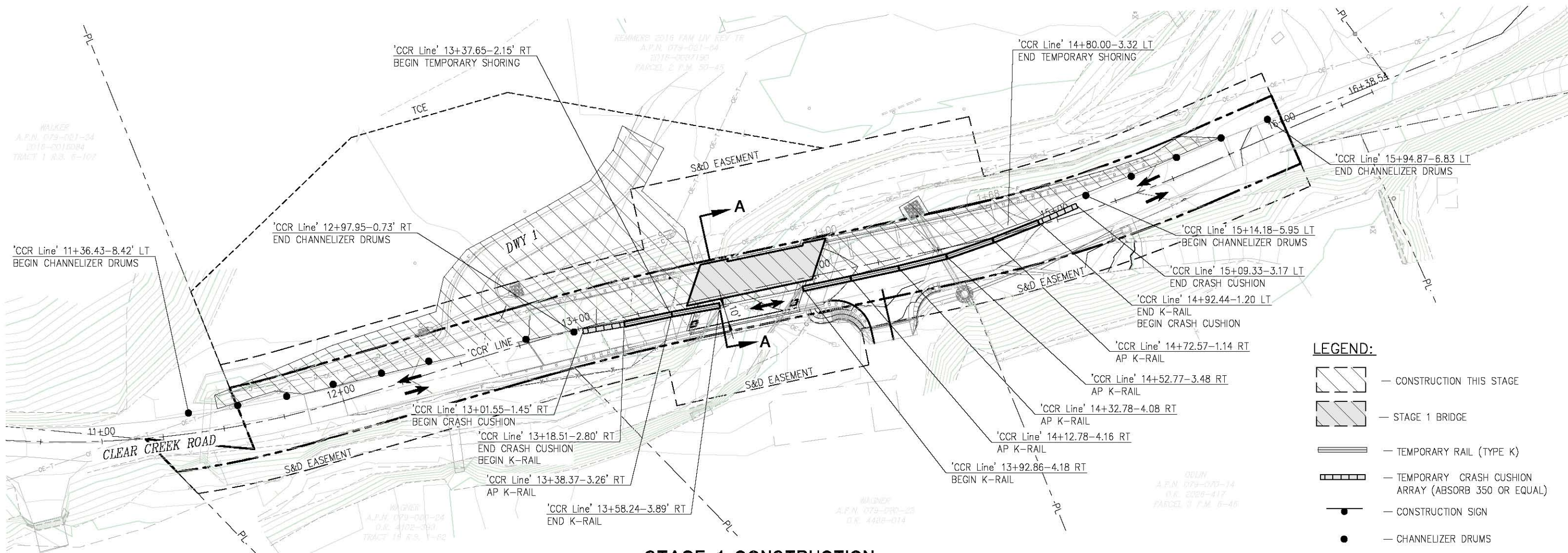
**STAGE 1 CONSTRUCTION NOTES:**

1. COMPLETE STAGE 1 BRIDGE CONSTRUCTION AND CONSTRUCT BRIDGE ROADWAY APPROACH MINUS FINAL HMA LIFT.
2. PLACE K-RAIL AS SHOWN.
3. APPROXIMATE LIMITS OF TEMPORARY SHORING, 'CCR' 13+37 TO 'CCR' 14+80. (CONSTRUCTION OF ABUTMENT FOOTINGS AND RETAINING WALL 1)
4. STAGE 1 CONSTRUCTION TO INCLUDE STAGE 1 BRIDGE, RETAINING WALL 1, RELOCATION OF DRIVEWAY 1, DRAINAGE SYSTEM 2, DRAINAGE DITCHES, ALL EMBANKMENT FILL FOR GUARDRAIL INSTALLATION AND RSP.
5. TEMPORARY TRAFFIC CONTROL MAY BE NECESSARY TO CONSTRUCT BRIDGE ABUTMENT FOOTINGS, RETAINING WALL 1 AND DRAINAGE SYSTEM 2.
6. PLACE PORTABLE CHANNELIZER DRUMS BEYOND THE LIMITS OF KRAIL ALONG EP ADJACENT TO WORK AREAS.



**SECTION A-A**

SCALE: 1"=4'



**STAGE 1 CONSTRUCTION**

SCALE: 1"=20'

**LEGEND:**

- CONSTRUCTION THIS STAGE
- STAGE 1 BRIDGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC

**STAGE 1 CONSTRUCTION**  
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: JIB RRR  
 DRAWN: JIB RRR  
 CHECKED: JIB RRR  
 DATE: 2/5/20  
 ROAD NUMBER: 081



**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**SC-1**  
15 OF 39  
W.G. No. **77139**

REVISION	NUMBER	DATE	DESCRIPTION	BY

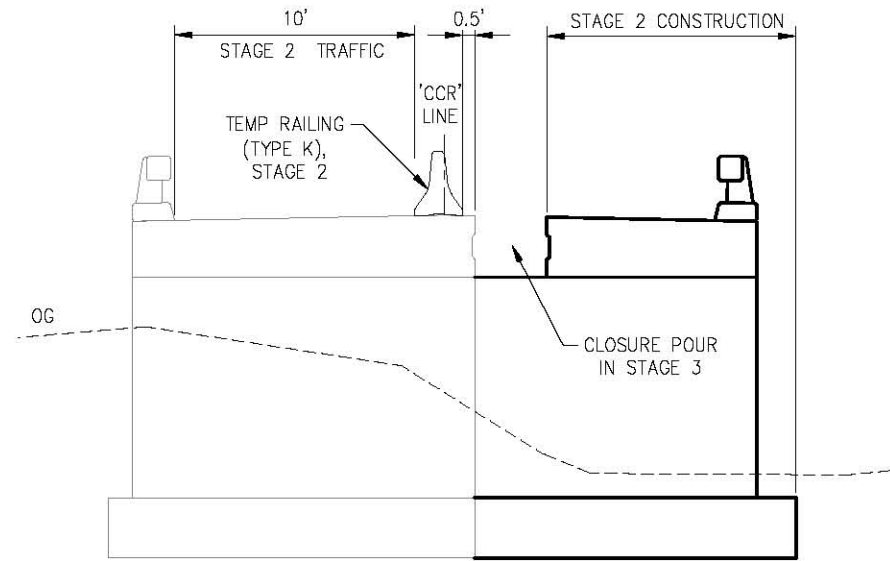
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 Layout Tab: SC-2 Feb 05, 2020 1:30pm BRichards  
 FOR REDUCED PLANS  
 2  
 1  
 0

**GENERAL STAGE CONSTRUCTION NOTES:**

1. SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

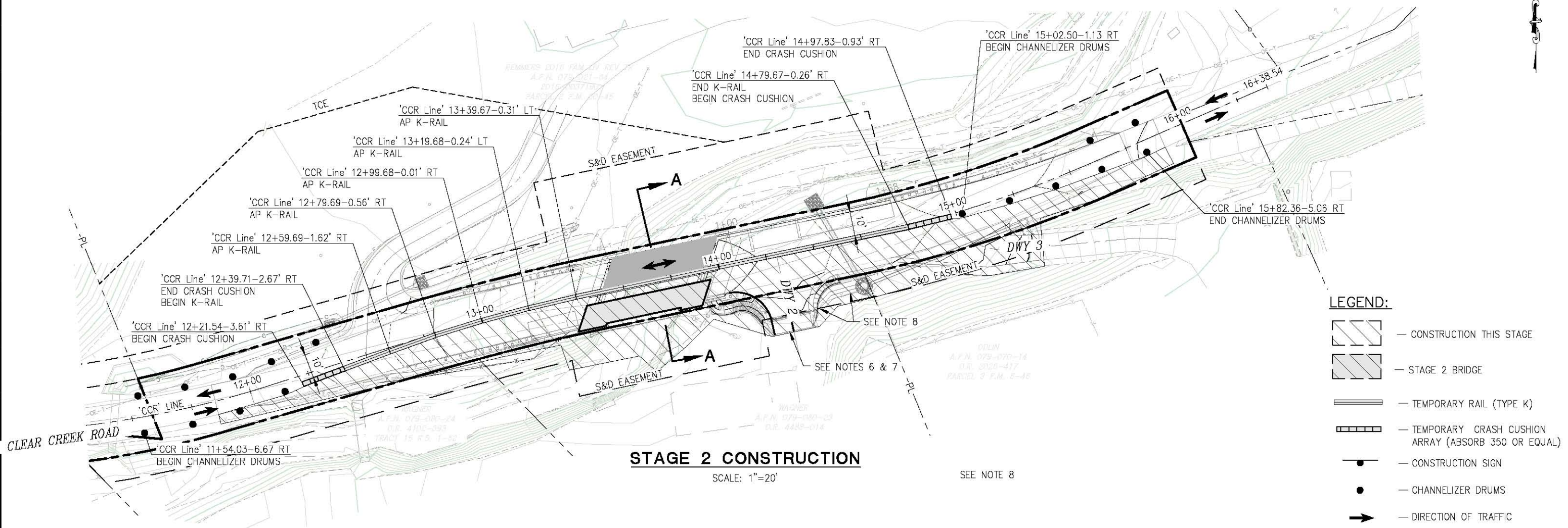
**STAGE 2 CONSTRUCTION NOTES:**

1. COMPLETE STAGE 2 BRIDGE CONSTRUCTION AND CONSTRUCT BRIDGE APPROACH ROADWAY MINUS FINAL HMA LIFT.
2. PLACE K-RAIL AS SHOWN.
3. STAGE 2 CONSTRUCTION TO INCLUDE REMOVAL OF EXISTING BRIDGE, CONSTRUCTION OF STAGE 2 BRIDGE, RETAINING WALL 2, DWY 2, DWY 3, AND ALL EMBANKMENT FILL FOR GUARDRAIL INSTALLATION AND RSP.
4. TEMPORARY TRAFFIC CONTROL MAY BE NECESSARY TO CONSTRUCT BRIDGE ABUTMENT FOOTINGS.
5. PLACE PORTABLE CHANNELIZER DRUMS BEYOND THE LIMITS OF K-RAIL ALONG EP ADJACENT TO WORK AREAS.
6. DRIVEWAY ACCESS MUST BE COORDINATED AND MAINTAINED DURING CONSTRUCTION.
7. ACCESS TO MAILBOXES MUST BE COORDINATED AND MAINTAINED DURING CONSTRUCTION.
8. EXISTING DRIVEWAY GATE & ADJACENT FENCE MUST BE PRESERVED AND PROTECTED. IF REMOVAL IS REQUIRED DURING CONSTRUCTION, IT MUST BE RE-ESTABLISHED TO MATCH EXISTING.



**SECTION A-A**

SCALE: 1"=4'



**STAGE 2 CONSTRUCTION**

SCALE: 1"=20'

SEE NOTE 8

**LEGEND:**

- CONSTRUCTION THIS STAGE
- STAGE 2 BRIDGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC

**STAGE 2 CONSTRUCTION**  
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER

DESIGNED: JOB RR  
 DRAWN: RR  
 CHECKED: DATE: 2/5/20  
 JOB: 2/5/20  
 ROAD NUMBER: 081



**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**SC-2**  
16 OF 39  
W.G. No. 77139



**GENERAL STAGE CONSTRUCTION NOTES:**

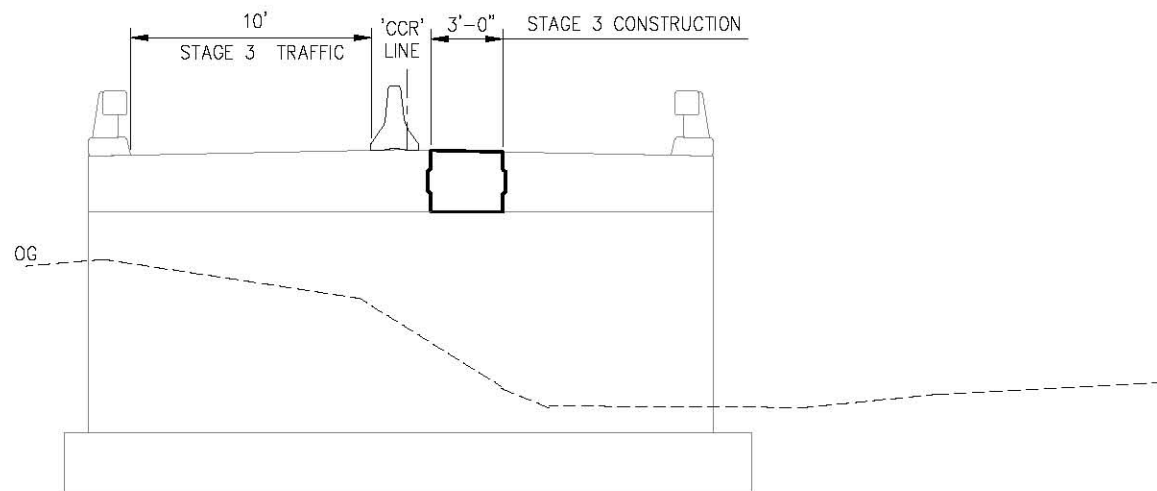
1. SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

**STAGE 3 CONSTRUCTION NOTES:**

1. TRAFFIC MOVEMENT TO REMAIN THE SAME AS STAGE 2.
2. STAGE 3 CONSTRUCTION TO INCLUDE BRIDGE CLOSURE POUR.
3. TEMPORARY TRAFFIC CONTROL MAY BE NECESSARY DURING CLOSURE POUR.

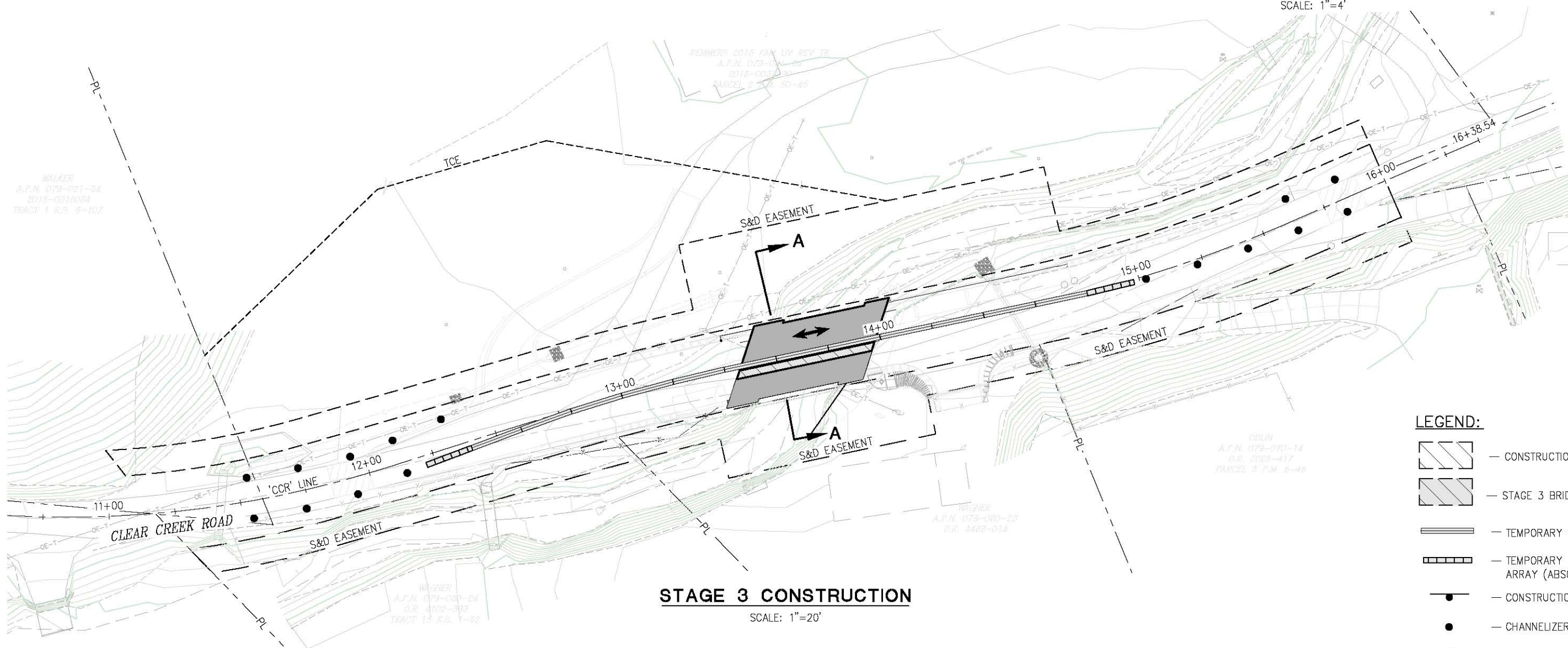
UPON COMPLETION OF THE ABOVE LISTED ITEMS AND AT THE DIRECTION OF THE ENGINEER, THE FOLLOWING ITEMS WILL BE COMPLETED:

1. REMOVAL OF K-RAIL AND CHANNELIZER DRUMS
2. COLD PLANING AT CONFORM AREAS.
3. FINAL HMA (TYPE A) LIFT.



**SECTION A-A**

SCALE: 1"=4'



**STAGE 3 CONSTRUCTION**

SCALE: 1"=20'

**LEGEND:**

- CONSTRUCTION THIS STAGE
- STAGE 3 BRIDGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC

**STAGE 3 CONSTRUCTION**  
SCALE : AS NOTED

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil SD Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\SC-3.dwg Layout Tab: SC-3 Feb 07,2020 8:10am BRichards

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: \_\_\_\_\_

DESIGNED: JIB  
DRAWN: RRR  
CHECKED: JIB  
DATE: 2/5/20  
ROAD NUMBER: 081

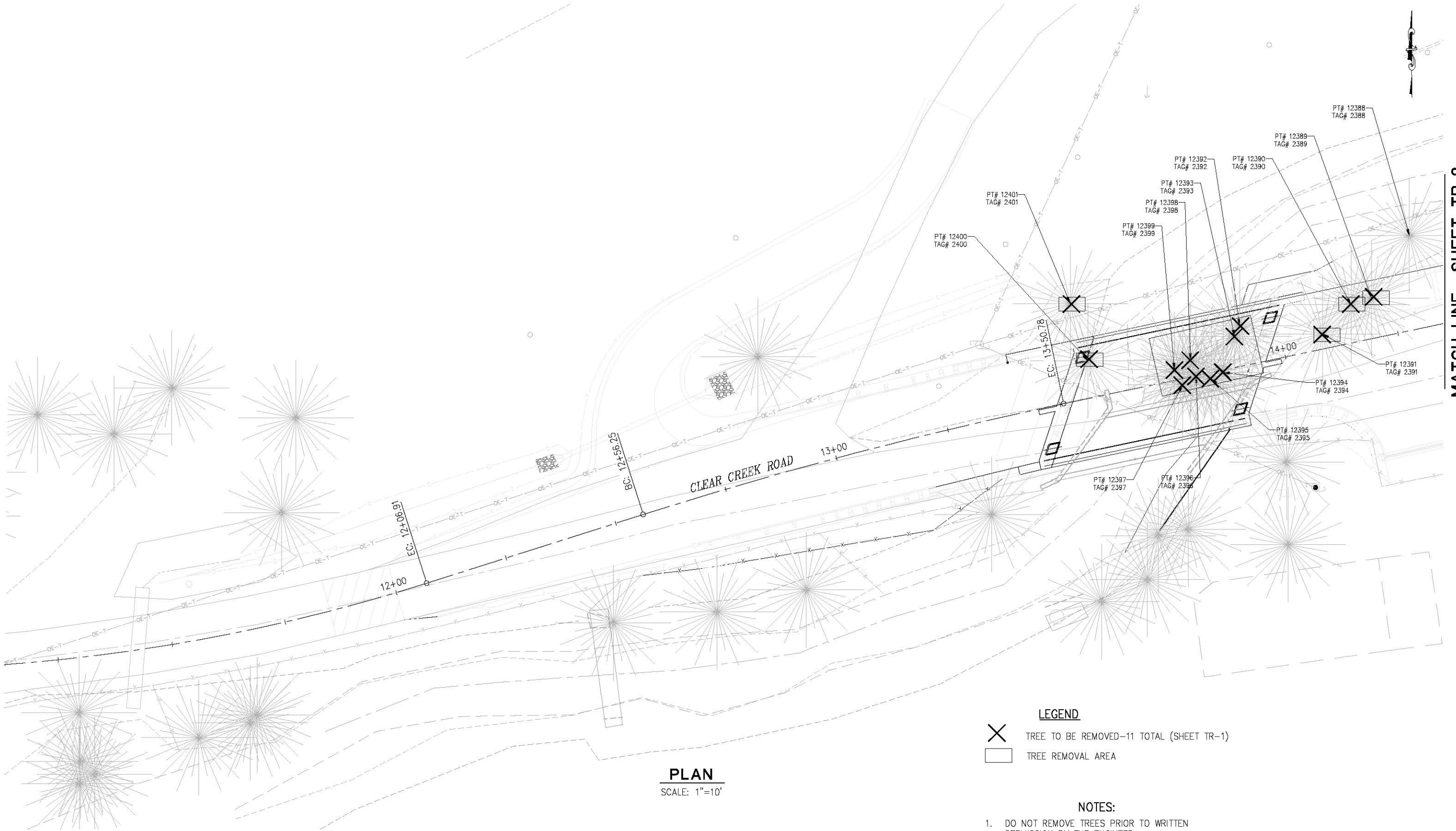


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**SC-3**  
17 OF 39  
W.C. No. 77139

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\TR-1.dwg Layout Tab: TR-1 Feb 07, 2020 - 8:34am Bricardis  
 FOR REDUCED PLANS  
 2  
 1  
 0



MATCH LINE SHEET TR-2

**PLAN**  
SCALE: 1"=10'

- LEGEND**
- TREE TO BE REMOVED-11 TOTAL (SHEET TR-1)
  - TREE REMOVAL AREA

- NOTES:**
1. DO NOT REMOVE TREES PRIOR TO WRITTEN PERMISSION BY THE ENGINEER.
  2. ONLY REMOVE TREES AS MARKED FOR REMOVAL.

**TREE REMOVAL PLAN**  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: JIB RRR  
 DRAWN: RRR  
 CHECKED: JIB DATE: 2/5/20  
 ROAD NUMBER: 81

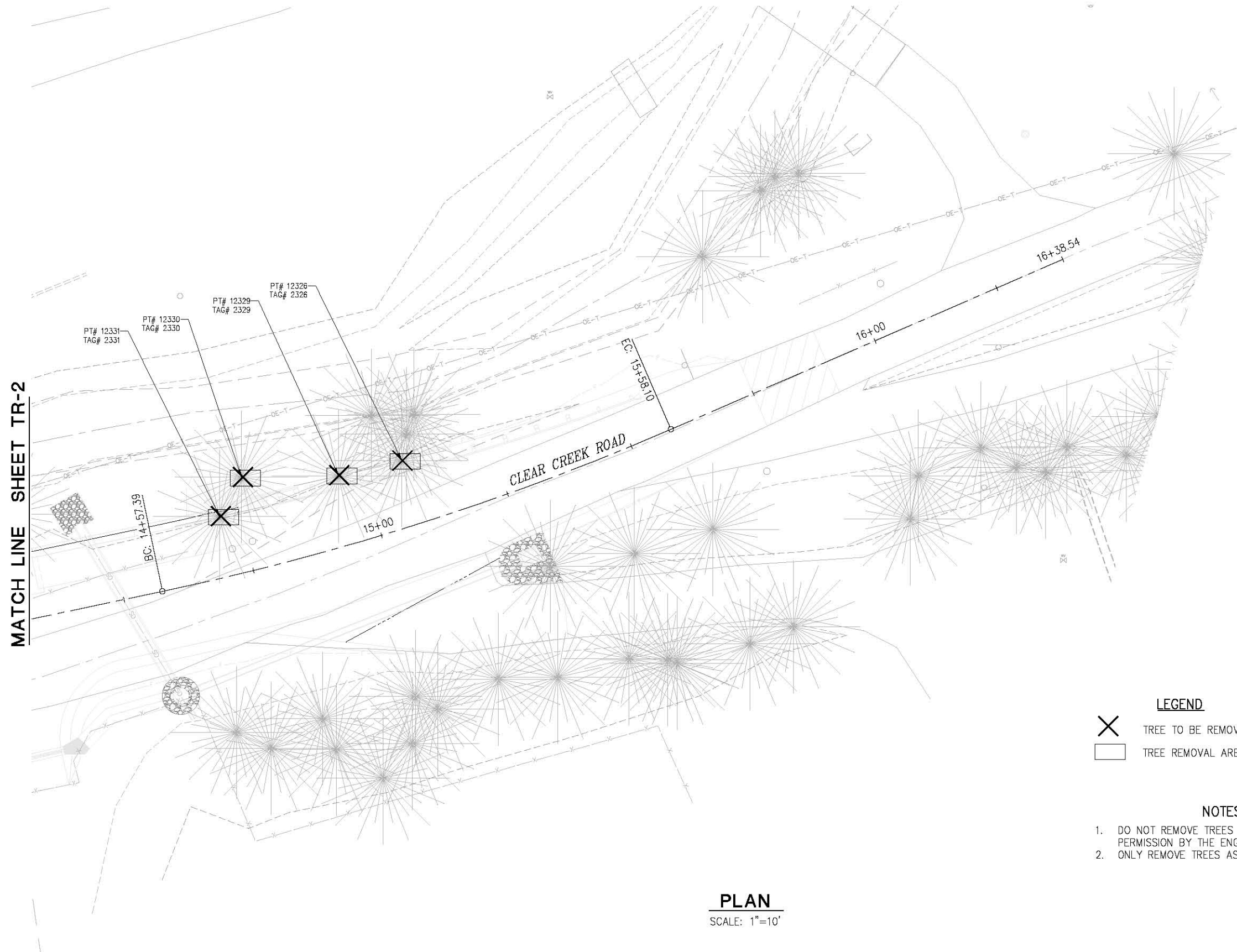


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**TR-1**  
18 OF 39  
W.D. No. **77139**

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D\Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\TR-1.dwg Layout Tab: TR-2 Feb 07, 2020 10:16am BRichards  
 FOR REDUCED PLANS



MATCH LINE SHEET TR-2

- LEGEND**
- TREE TO BE REMOVED—5 TOTAL (SHEET TR-2)
  - TREE REMOVAL AREA

- NOTES:**
1. DO NOT REMOVE TREES PRIOR TO WRITTEN PERMISSION BY THE ENGINEER.
  2. ONLY REMOVE TREES AS MARKED FOR REMOVAL.

**PLAN**  
SCALE: 1"=10'

**TREE REMOVAL SCALE : AS NOTED**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: JIB RR  
 CHECKED: JIB DATE: 2/7/20  
 ROAD NUMBER: 81



**COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT**

SHEET  
**TR-2**  
 19 OF 39  
 W.D. No. **77139**

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\TR-1.dwg  
 Layout Tab: TR-3  
 Feb 07, 2020 - 10:18am  
 BRichards

FOR REDUCED PLANS  
 0 1 2

**TREE REMOVAL TABLE (TR-1)**

POINT NUMBER	TAG NUMBER	'CCR' LINE STATION	OFFSET	DESCRIPTION & DIA.
12388	2388	14+31.80	20.24' LT	FIR-1.15ø
12389	2389	14+20.94	8.61' LT	CEDAR-0.6ø,1.59ø,0.45ø CLUSTER (3)
12390	2390	14+16.30	8.14' LT	CEDAR-1.34ø
12391	2391	14+08.93	3.23' LT	CEDAR-1.69ø
12392	2392	13+91.72	8.66' LT	ORNAMENTAL-0.41ø,0.41ø (FORKED)
12393	2393	13+90.12	6.63' LT	ORNAMENTAL-0.32ø,0.32ø,0.32ø CLUSTER (3)
12394	2394	13+86.05	0.48' RT	ORNAMENTAL-0.76ø
12395	2395	13+83.25	1.28' RT	ORNAMENTAL-0.99ø
12396	2396	13+80.16	0.11' RT	ORNAMENTAL-0.38ø
12397	2397	13+76.90	1.32' RT	ORNAMENTAL-0.76ø
12398	2398	13+79.66	3.60' LT	ORNAMENTAL-0.41ø
12399	2399	13+75.84	2.28' LT	ORNAMENTAL-0.51ø
12400	2400	13+57.85	8.06' LT	CEDAR-1.72ø
12401	2401	13+56.64	20.95' LT	CEDAR-2.32ø

**TREE REMOVAL TABLE (TR-2)**

POINT NUMBER	TAG NUMBER	'CCR' LINE STATION	OFFSET	DESCRIPTION & DIA.
12326	2326	15+07.88	12.37' LT	CEDAR-0.57ø
12329	2329	14+95.33	13.06' LT	CEDAR-1.91ø
12330	2330	14+77.09	17.64' LT	CEDAR-1.08ø
12331	2331	14+71.14	11.40' LT	PINE-3.63ø

**TREE REMOVAL PLAN  
SCALE : AS NOTED**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: J.B. RR  
 CHECKED: J.B. 2/7/20  
 ROAD NUMBER: 81





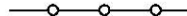

**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

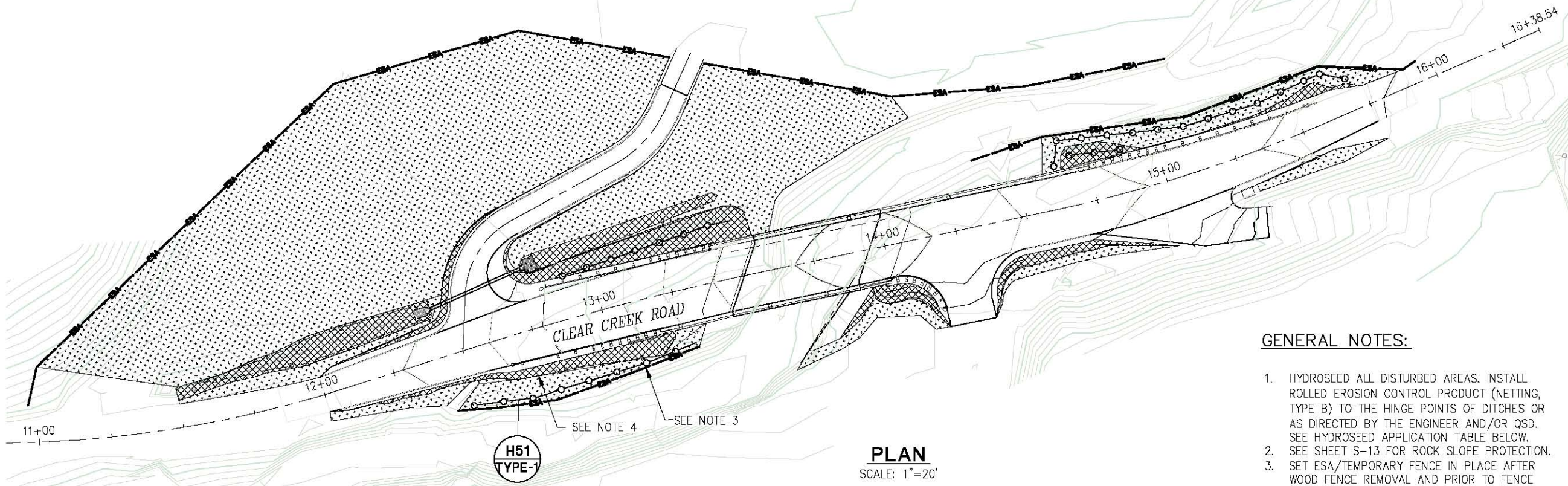
**CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT**

SHEET  
**TR-3**  
 20 OF 39  
 W.G. No. **77139**

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS

**LEGEND:**

-  — HYDROSEED — 17,937 S.F.
-  — HYDROSEED & ROLLED EROSION CONTROL PRODUCT (NETTING, TYPE B) — 2,566 S.F.
-  — FIBER ROLLS, PER H51 (TYPE 1 INSTALLATION) — 277± LF
-  — TEMPORARY HIGH VISIBILITY FENCE — 594± LF



**PLAN**  
SCALE: 1"=20'

**GENERAL NOTES:**

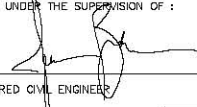
1. HYDROSEED ALL DISTURBED AREAS. INSTALL ROLLED EROSION CONTROL PRODUCT (NETTING, TYPE B) TO THE HINGE POINTS OF DITCHES OR AS DIRECTED BY THE ENGINEER AND/OR QSD. SEE HYDROSEED APPLICATION TABLE BELOW.
2. SEE SHEET S-13 FOR ROCK SLOPE PROTECTION.
3. SET ESA/TEMPORARY FENCE IN PLACE AFTER WOOD FENCE REMOVAL AND PRIOR TO FENCE REPLACEMENT.
4. ADD RSP ALONG EMBANKMENT SLOPE (AND FENCE POSTS) AS NEEDED AND AS DIRECTED BY THE ENGINEER.

FIBER ROLLS				
SEQUENCE	ITEM DESCRIPTION	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
INSTALL PRIOR TO HYDROSEEDING	FIBER ROLLS	FIBER ROLL	8" TO 10" DIA.	TYPE 1 FIBER ROLL INSTALLATION

HYDROSEED APPLICATION TABLE			
SEQUENCE	ITEM	MATERIAL DESCRIPTION	APPLICATION RATE
STEP 1	HYDROSEED	SEED	42 LB/ACRE
		FIBER	500 LB/ACRE
		ORGANIC FERTILIZER	500 LB/ACRE
STEP 2	STRAW	STRAW	4,000 LB/ACRE
STEP 3	HYDROMULCH	FIBER	500 LB/ACRE
		ORGANIC FERTILIZER	500 LB/ACRE
		TACKIFIER	120 LB/ACRE

**EROSION CONTROL**  
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: JB RR  
 DRAWN: RR  
 CHECKED: JB DATE: 2/5/20  
 ROAD NUMBER: 81

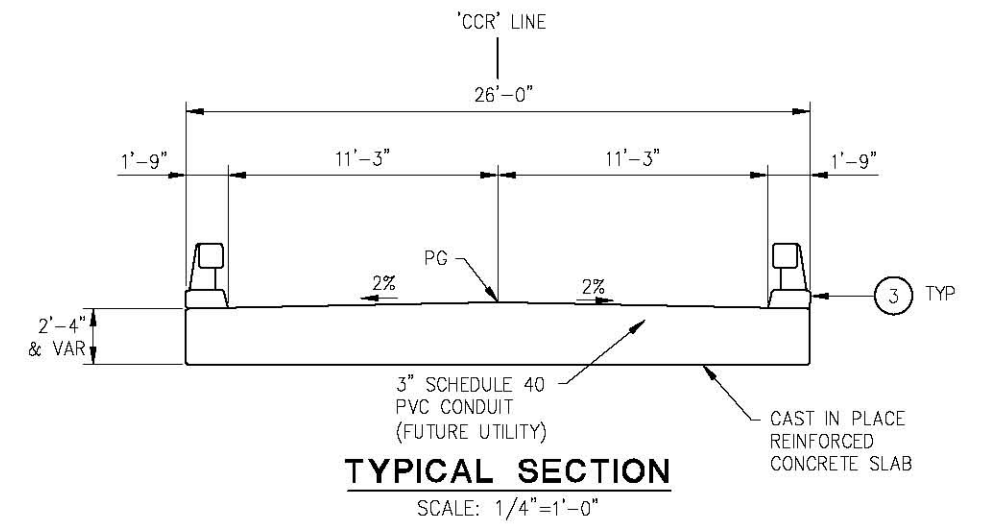
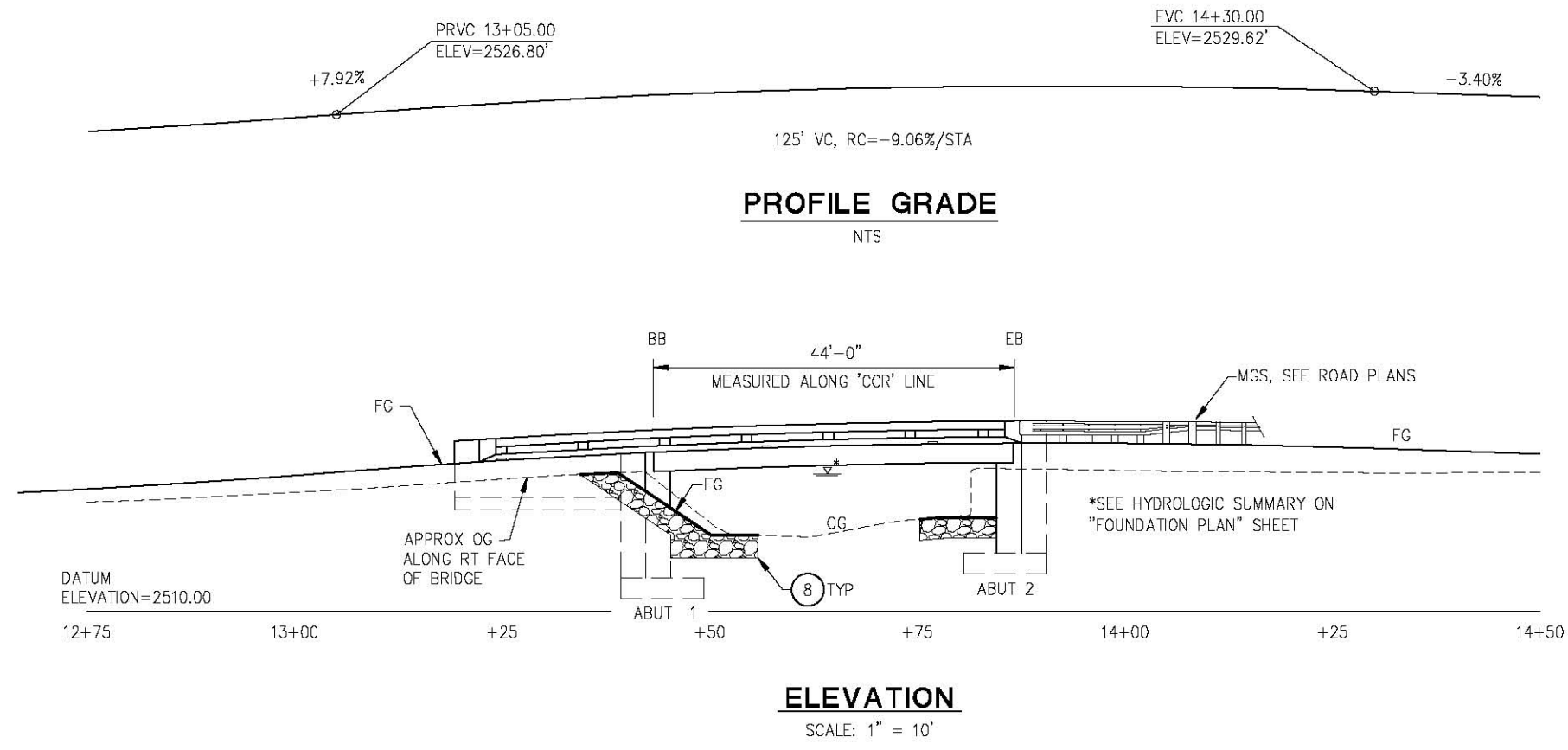


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**EC-1**  
21 OF 39  
W.G. No. **77139**

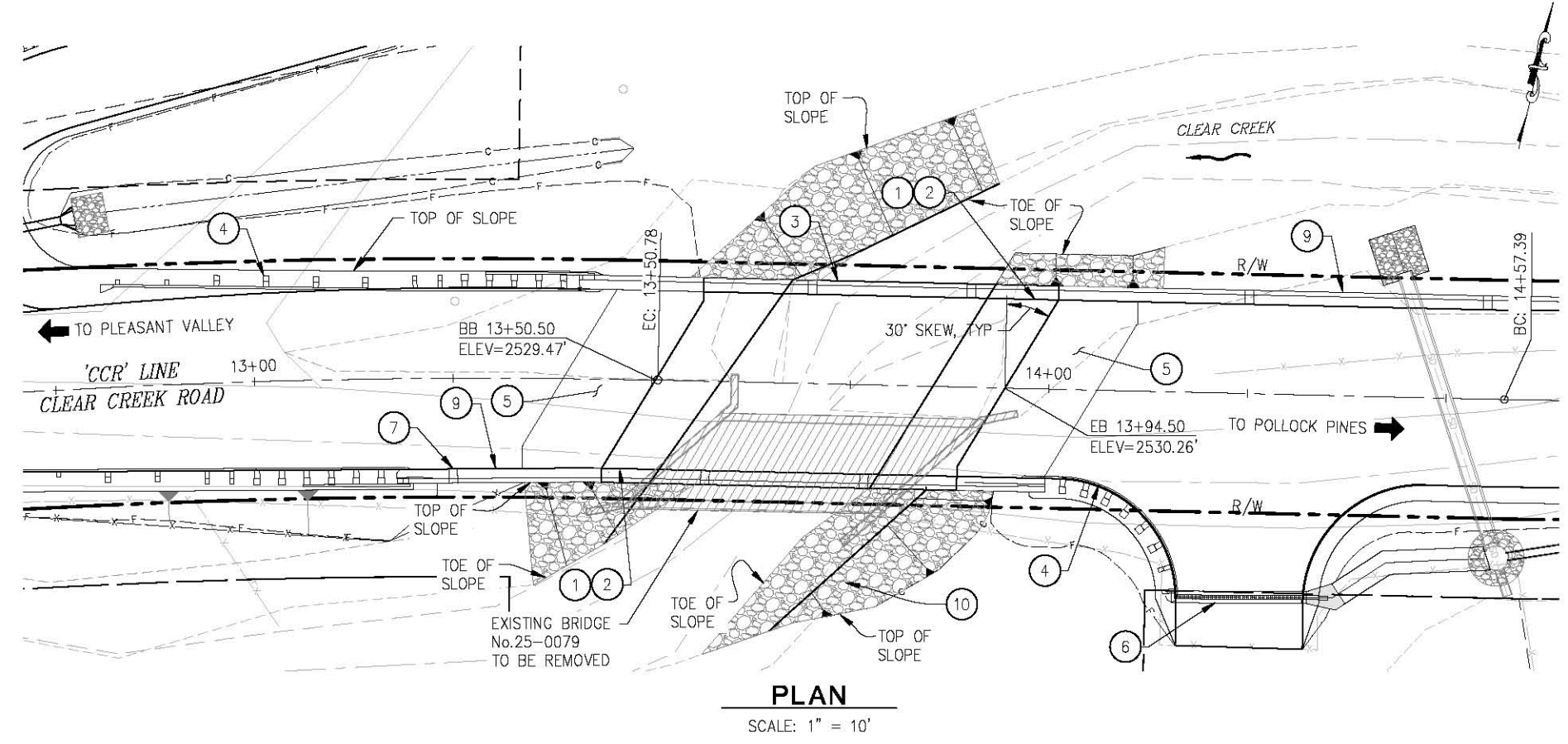
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Drawing name: C:\Civil 3D\Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD\Files\Sheets\S-1.dwg Layout Tab: S-1 Feb 07, 2020 - 8:47am Bricolards



**QUANTITIES:**

BRIDGE REMOVAL	1 LS
STRUCTURE EXCAVATION (BRIDGE)	365 CY
STRUCTURE BACKFILL (BRIDGE)	230 CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	60 CY
STRUCTURAL CONCRETE, BRIDGE	99 CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	106 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	19 CY
JOINT SEAL (MR 1/2")	59 LF
BAR REINFORCING STEEL (BRIDGE)	31,200 LB
BAR REINFORCING STEEL, EPOXY COATED (BRIDGE)	6,300 LB
CONCRETE BARRIER (TYPE 80 MODIFIED)	212.5 LF

- GENERAL NOTES:**
- CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.
  - FOR 'CCR' LINE ALIGNMENT DATA SEE "CD" AND "L" SHEETS.



**LEGEND**

- INDICATES BRIDGE REMOVAL
- INDICATES NEW STRUCTURE
- INDICATES EXISTING STRUCTURE
- DIRECTION OF TRAVEL
- DIRECTION OF WATER FLOW

**CONSTRUCTION NOTES:**

- PAINT "CLEAR CREEK BRIDGE" ON BOTTOM RAIL
- PAINT "BR. NO. 25-0134" ON BOTTOM RAIL
- CONCRETE BARRIER (MODIFIED TYPE 80)
- MIDWEST GUARDRAIL SYSTEM, SEE ROAD PLANS
- STRUCTURE APPROACH SLAB, TYPE EQ(10)
- GRATED LINE DRAIN, SEE ROAD PLANS
- SCUPPER: 13+25, 13+57, 13+77 RT  
13+70, 13+90, 14+25, 14+55 LT
- RSP, SEE 'ROCK SLOPE PROTECTION' SHEET
- RETAINING WALL TYPE 5
- PRESERVE & PROTECT EXISTING METAL STAIRS IN PLACE OR REMOVE, PROTECT AND RESET AFTER SLOPE CONSTRUCTION

**B7-8**

**GENERAL PLAN**  
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Michael S. Fromm*  
REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
DRAWN: RR  
CHECKED: KL  
DATE: 2/6/20  
ROAD NUMBER: 81

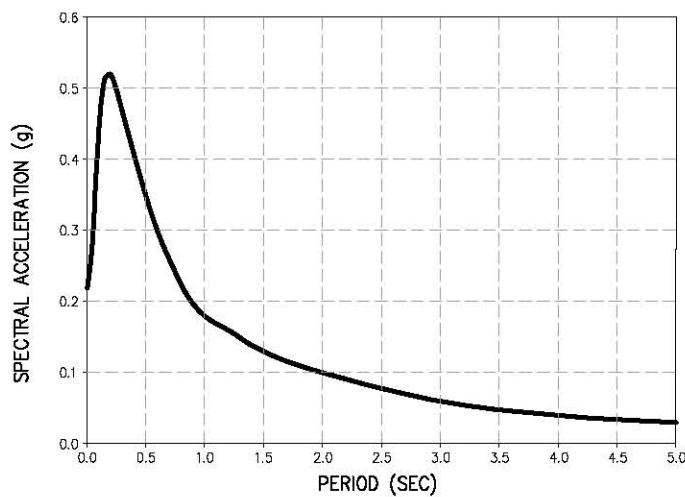


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

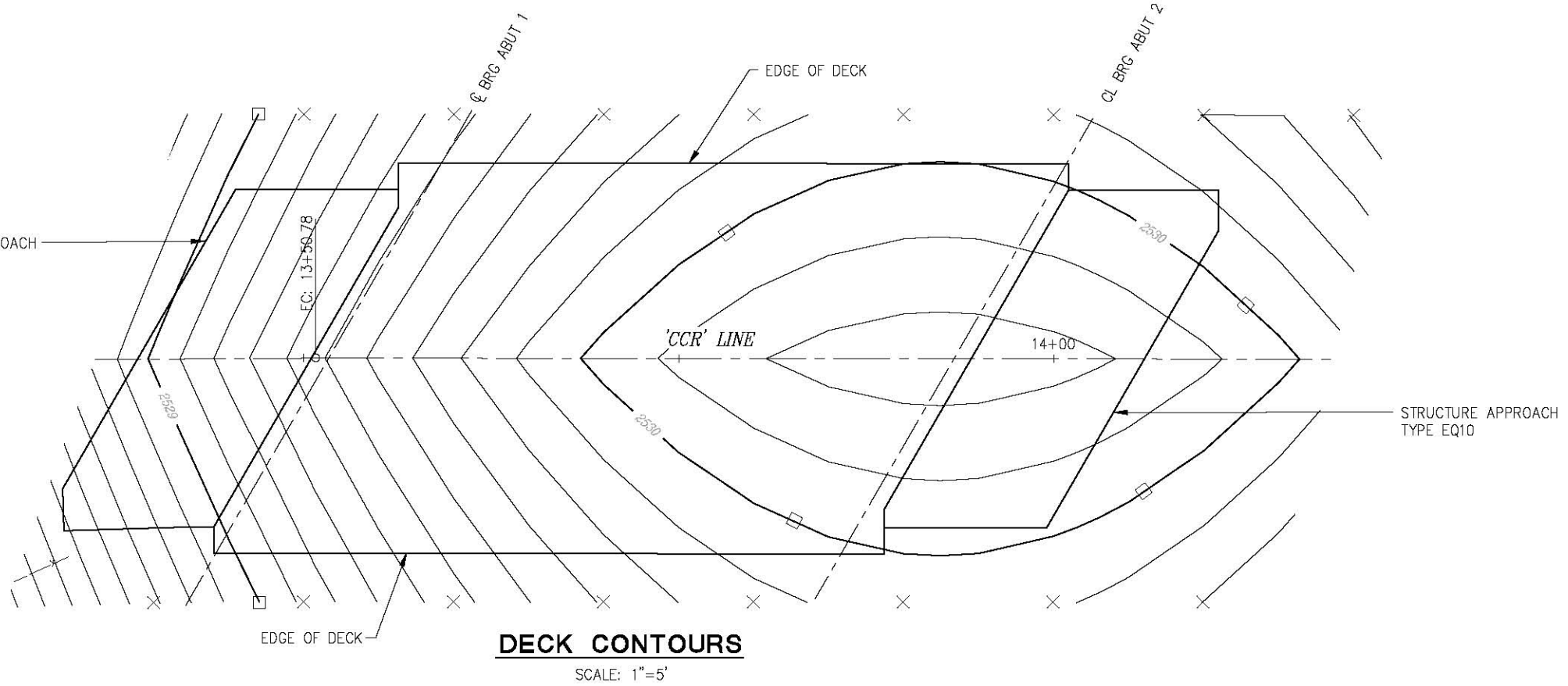
**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-1**  
22 OF 39  
W.O. No. **77139**

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS



**ACCELERATION RESPONSE SPECTRA CURVE**  
 NTS



**DECK CONTOURS**  
 SCALE: 1"=5'

- NOTES:**
1. CONTOUR INTERVAL IS 0.1 FEET.
  2. X - INDICATES 10' INTERVALS MEASURED ALONG 'CCR' LINE.
  3. □ - INDICATES WHOLE-FOOT CONTOURS.
  4. CONTOURS DO NOT INCLUDE CAMBER OR ALLOWANCE FOR FALSEWORK SETTLEMENT.

**GENERAL NOTES:  
 LOAD AND RESISTANCE FACTOR DESIGN**

**DESIGN:**  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION AND THE CALTRANS AMENDMENTS, PREFACE DATED JANUARY 2014.

**SEISMIC DESIGN:**  
 CALTRANS SEISMIC DESIGN CRITERIA (SDC), VERSION 1.7, APRIL 2013

**DEAD LOAD:**  
 INCLUDES 35 PSF FOR FUTURE WEARING SURFACE, AND 100 PLF FOR FUTURE UTILITIES.

**LIVE LOAD:**  
 HL93 W/ "LOW BOY" AND PERMIT DESIGN VEHICLE.

**SEISMIC LOADING:**  
 SDC ARS CURVE FOR SOIL PROFILE TYPE C  
 VS30 = 430M/S (APPROXIMATELY 1411 FT/S)  
 MAGNITUDE = 7.0  
 PEAK HORIZONTAL GROUND ACCELERATION = 0.22G

**REINFORCED CONCRETE:**  
 fy = 60 KSI  
 f'c = 3.6 KSI, UNLESS OTHERWISE NOTED.  
 n = 8

**CALTRANS STANDARD PLANS DATED 2015:**

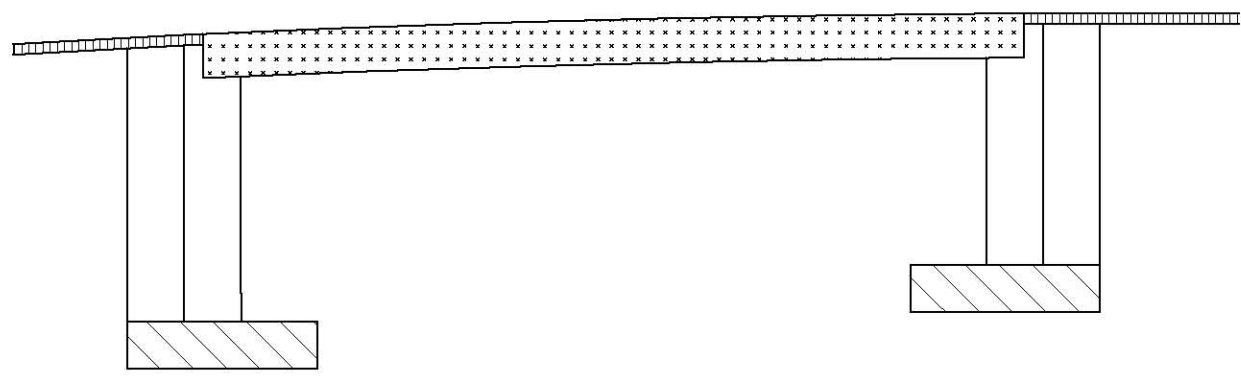
- A3A ABBREVIATIONS (SHEET 1 OF 3)
- A3B ABBREVIATIONS (SHEET 2 OF 3)
- A3C ABBREVIATIONS (SHEET 3 OF 3)
- A10A LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
- RSP A10B LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
- A10C LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
- A10D LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
- A10E LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
- T3B TEMPORARY RAILING (TYPE K)
- B0-1 BRIDGE DETAILS
- RSP B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B3-4A RETAINING WALL TYPE 5 (CASE 1)
- B3-5 RETAINING WALL DETAILS No.1
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING 2")
- B7-8 DECK DRAINAGE DETAILS
- RSP B9-5 STRUCTURE APPROACH SLAB DETAILS
- B11-60 CONCRETE BARRIER TYPE B0

**INDEX TO PLANS:**

- S-1 GENERAL PLAN
- S-2 DECK CONTOURS/INDEX TO PLANS
- S-3 STAGE CONSTRUCTION
- S-4 FOUNDATION PLAN
- S-5 ABUTMENT NO.1 LAYOUT
- S-6 ABUTMENT NO.2 LAYOUT
- S-7 ABUTMENT DETAILS NO.1
- S-8 ABUTMENT DETAILS NO.2
- S-9 ABUTMENT DETAILS NO.3
- S-10 TYPICAL SECTION
- S-11 SLAB DETAILS
- S-12 ARCHITECTURAL TREATMENT
- S-13 ROCK SLOPE PROTECTION
- S-14 STRUCTURE APPROACH TYPE EQ(10)
- S-15 STRUCTURE APPROACH DRAINAGE DETAILS
- S-16 RETAINING WALL No.1 LAYOUT
- S-17 RETAINING WALL No.2 LAYOUT
- S-18 LOG OF TEST BORINGS



**DECK CONTOURS  
 SCALE : AS NOTED**



- - STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) (f'c=3.6 KSI @ 28 DAYS)
- - STRUCTURAL CONCRETE, BRIDGE (f'c=3.6 KSI @ 28 DAYS)
- ▨ - STRUCTURAL CONCRETE, BRIDGE FOOTING (f'c=3.6 KSI @ 28 DAYS)
- ▨ - STRUCTURAL CONCRETE, (POLYMER FIBER) STRUCTURE APPROACH (f'c=3.6 KSI @ 28 DAYS)

**CONCRETE STRENGTH AND TYPE LIMITS**  
 NTS



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081

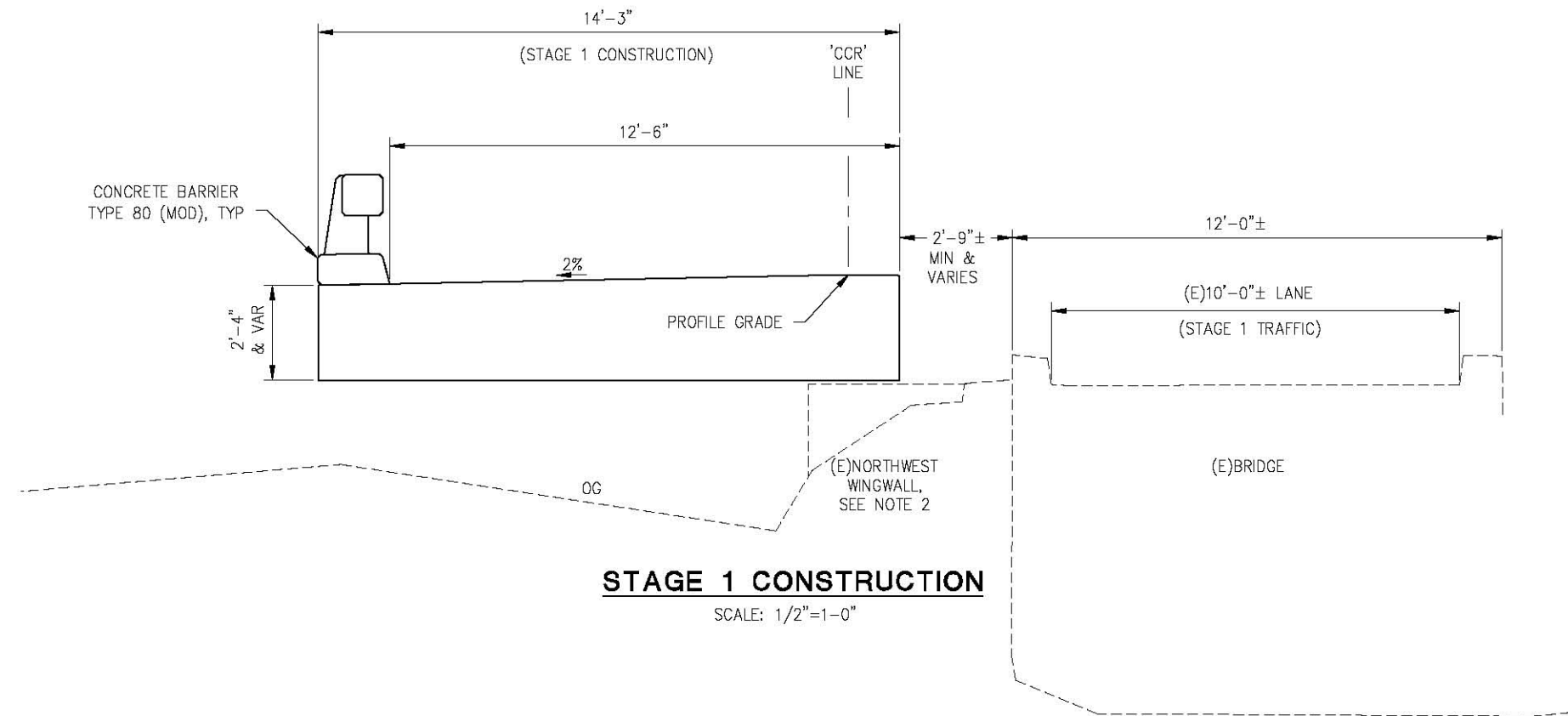


**COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT**

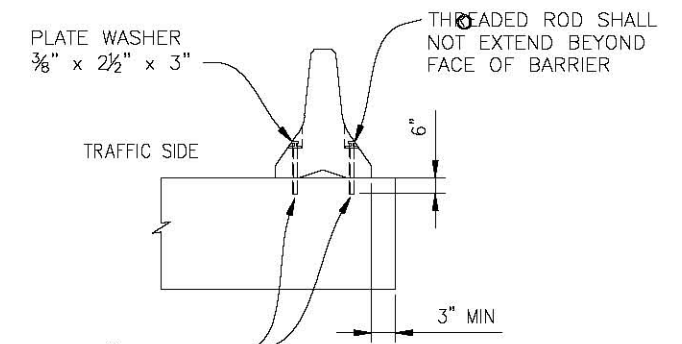
SHEET  
**S-2**  
 23 OF 39  
 W.O. No. 77139

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 FOR REDUCED PLANS



**STAGE 1 CONSTRUCTION**

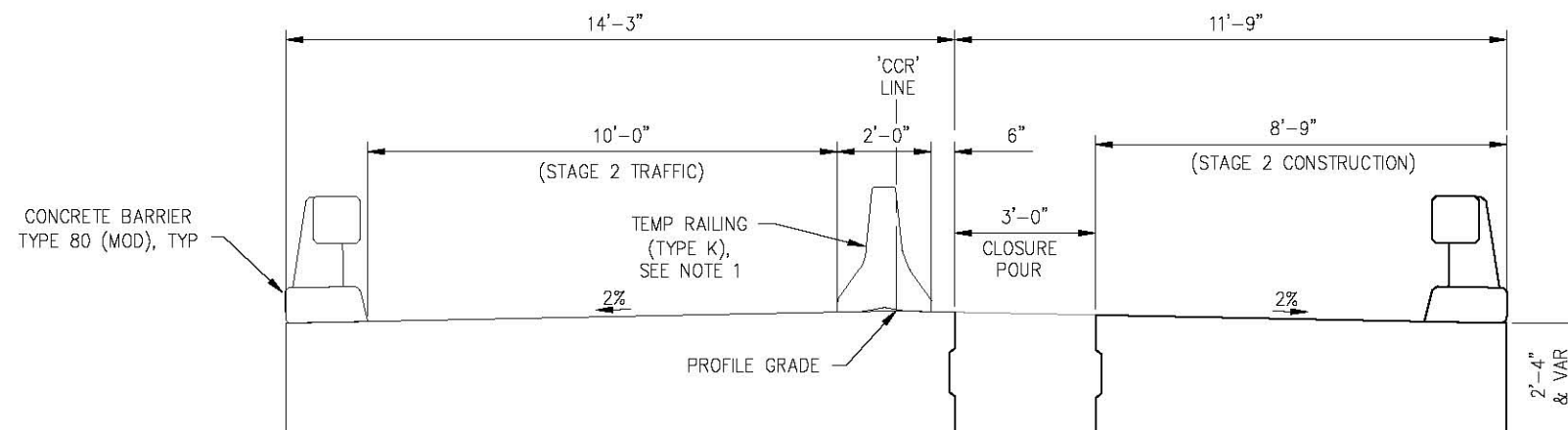
SCALE: 1/2"=1'-0"



DRILL AND BOND 1"Ø ROD THREADED FULL LENGTH, WITH NUT, INTO HOLE 0'-6" DEEP (Tot 4 PER PANEL). DRILL AND BOND REQUIRED ONLY ON BRIDGE DECK.

**TEMPORARY K-RAIL ANCHOR DETAIL**

ADDITIONAL DETAILS, SEE T3B



**STAGE 2 CONSTRUCTION**

SCALE: 1/2"=1'-0"  
 EXISTING BRIDGE TO BE REMOVED DURING STAGE 2 CONSTRUCTION

**NOTES:**

- K-RAIL ANCHOR, SEE DETAIL THIS SHEET
- TEMPORARY SHORING MAY BE REQUIRED FOR EXCAVATION ALONG EXISTING ABUTMENTS AND WINGWALLS. THE EXISTING NORTHWEST WINGWALL WILL REQUIRE SAW CUT.

**STAGE CONSTRUCTION SCALE : AS NOTED**



PREPARED UNDER THE SUPERVISION OF :  
 [Signature]  
 REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081



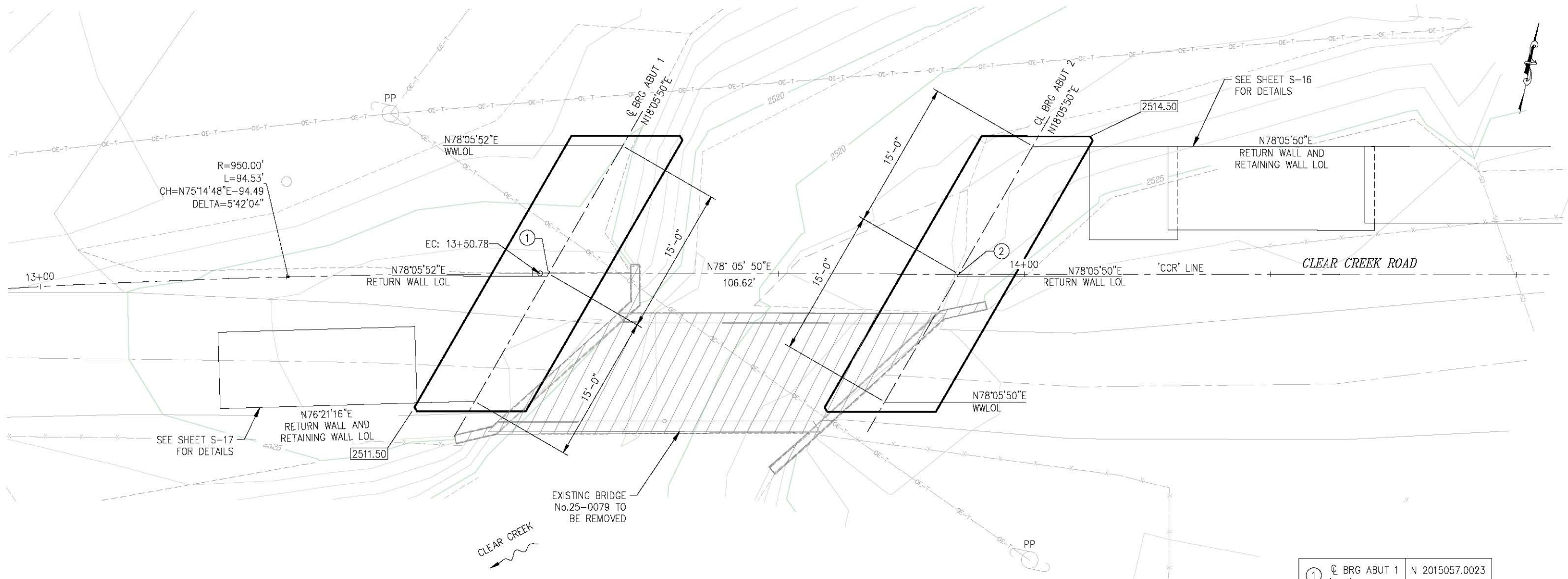
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-3**  
 24 OF 39  
 W.O. No. 77139



ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\S-4.dwg Layout Tab: S-4 Feb 07, 2020 - 9:03am BRichards



**PLAN**  
SCALE: 1"=5'

①	CL BRG ABUT 1 'CCR' 13+51.65	N 2015057.0023 E 6950171.1457
②	CL BRG ABUT 2 'CCR' 13+93.34	N 2015065.6011 E 6950211.9399

**LEGEND**

- BOTTOM OF FOOTING ELEVATION
- DIRECTION OF WATER FLOW
- EXISTING BRIDGE TO BE REMOVED

**NOTE:**  
BOTTOM OF FOOTING MUST EXTEND A MIN OF 2 FT INTO ROCK. REMOVE LOOSE SOILS OR ROCKS AT BOTTOM OF EXCAVATION SO THAT CONCRETE IS PLACED AGAINST UNDISTURBED MATERIAL.

HYDROLOGIC SUMMARY		
DRAINAGE AREA = 6.34 SQ. MI.		
	DESIGN FLOOD	BASE FLOOD
FREQUENCY (YEARS)	50	100
DISCHARGE (CFS)	1382	1698
WATER SURFACE ELEVATION (FT)*	2525.24	2525.78

\* FLOOD PLAIN DATA IS BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND IS SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED, INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATION.

SCOUR DATA TABLE		
SUPPORT NO.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (FT)	SHORT TERM (LOCAL) SCOUR DEPTH (FT)
ABUT 1	2517.7	8.87
ABUT 2	2517.7	6.16

SPREAD FOOTING DATA TABLE			
SUPPORT LOCATION	SERVICE PERMISSIBLE NET CONTACT STRESS (SETTLEMENT) (ksf)	STRENGTH/CONSTRUCTION FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = .45$ (ksf)	EXTREME EVENT FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = 1.00$ (ksf)
ABUT 1	155	60	N/A
ABUT 2	155	60	N/A

- NOTES:**
- CONTROLLING LOAD COMBINATION IS THE ONE RESULTING IN THE HIGHEST RATIO OF  $q_{g,u}/q_R$   $q_{g,u}/q_R$   $q_{g,u}/q_R$   $q_{g,u}/q_R$  FOR FOUNDATIONS ON SOIL, OR FOR FOUNDATIONS ON ROCK.
  - CONTROLLING LOAD COMBINATION FOR SERVICE LIMIT STATE IS THE ONE RESULTING IN THE HIGHEST RATIO OF FOR FOUNDATIONS ON SOIL, OR FOR FOUNDATIONS ON ROCK.
  - CONTROLLING LOAD COMBINATION FOR STRENGTH, CONSTRUCTION, AND EXTREME EVENT IS THE ONE RESULTING IN THE HIGHEST RATIO OF FOR FOUNDATIONS ON SOIL, OR FOR FOUNDATIONS ON ROCK.

**FOUNDATION PLAN**  
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Michael S. Fromm*  
REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
DRAWN: RR  
CHECKED: KL  
DATE: 2/6/20  
ROAD NUMBER: 081



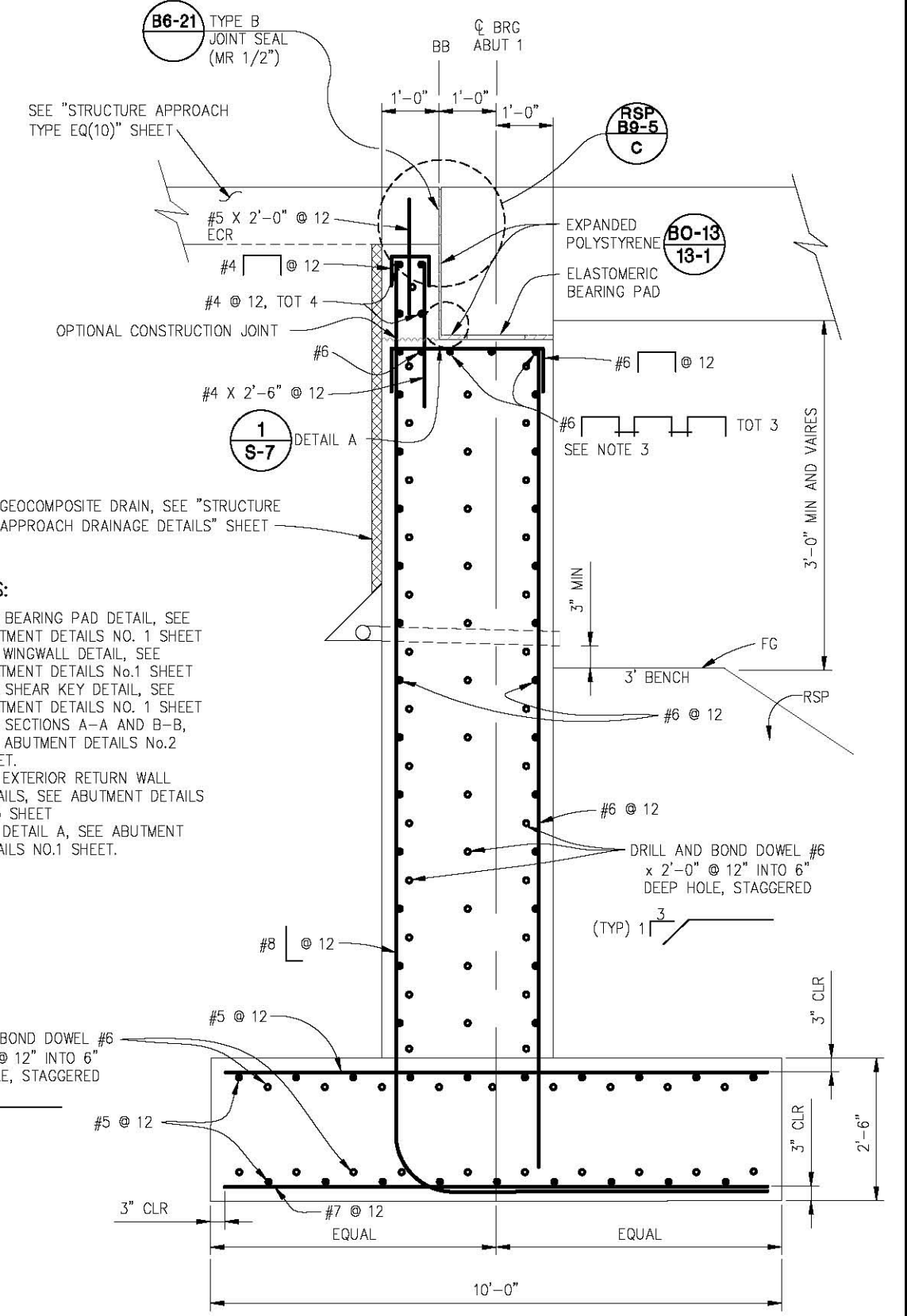
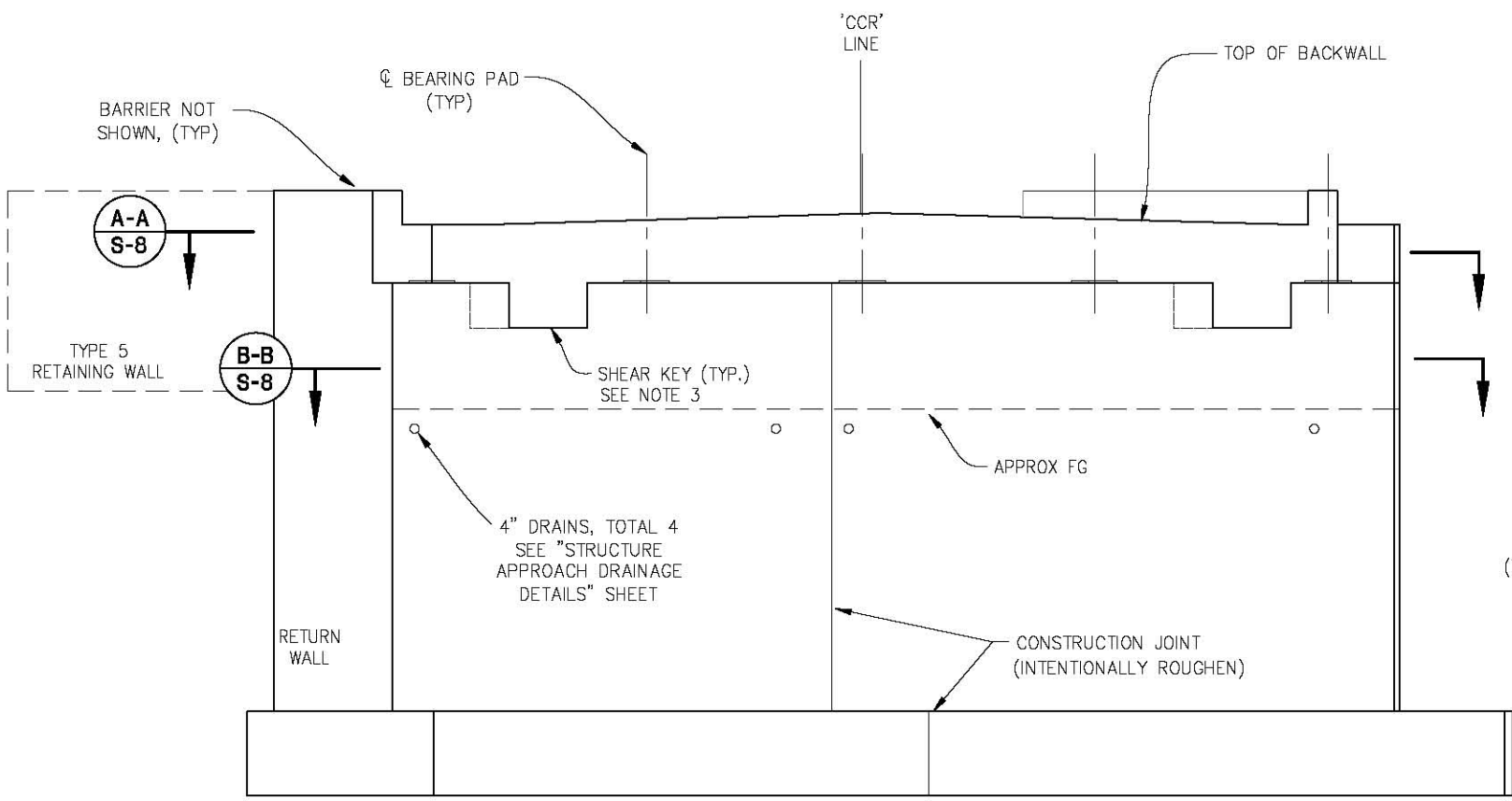
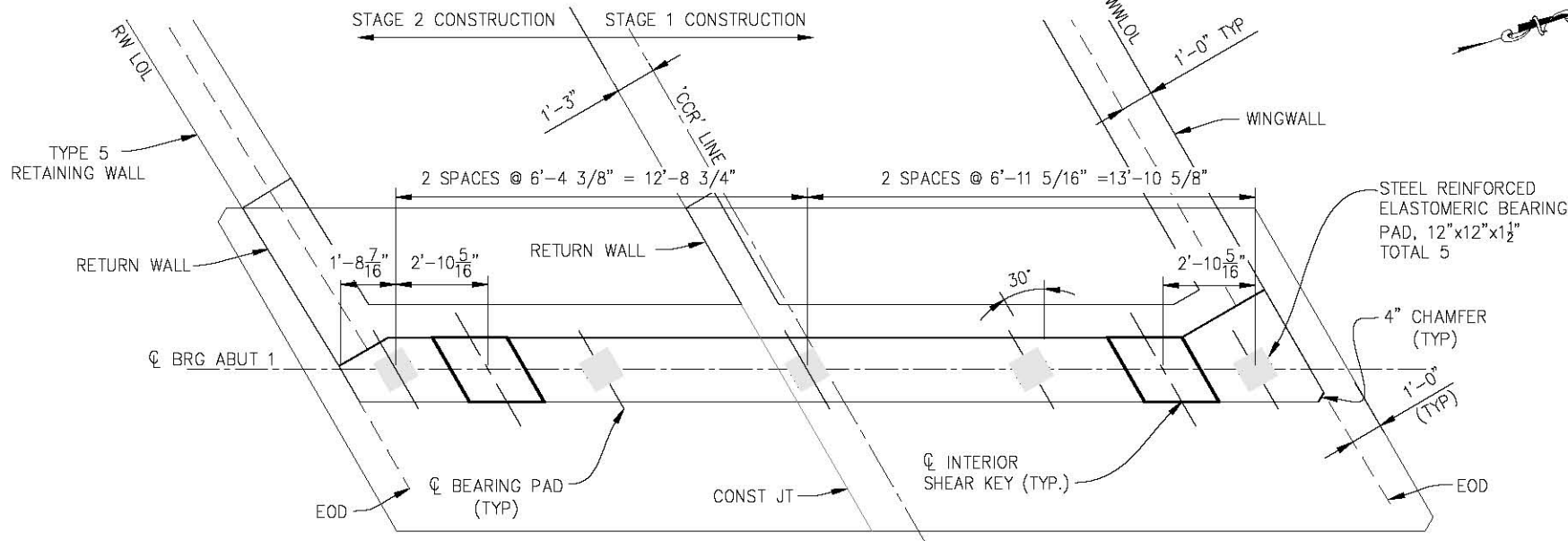
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-4**  
25 OF 39  
W.O. No. 77139

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\S-5.dwg Layout Tab: S-5 Feb 06, 2020 - 9:07am BRichards  
 FOR REDUCED PLANS



- NOTES:**
1. FOR BEARING PAD DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET
  2. FOR WINGWALL DETAIL, SEE ABUTMENT DETAILS NO.1 SHEET
  3. FOR SHEAR KEY DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET
  4. FOR SECTIONS A-A AND B-B, SEE ABUTMENT DETAILS No.2 SHEET.
  5. FOR EXTERIOR RETURN WALL DETAILS, SEE ABUTMENT DETAILS No.3 SHEET
  6. FOR DETAIL A, SEE ABUTMENT DETAILS NO.1 SHEET.



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081



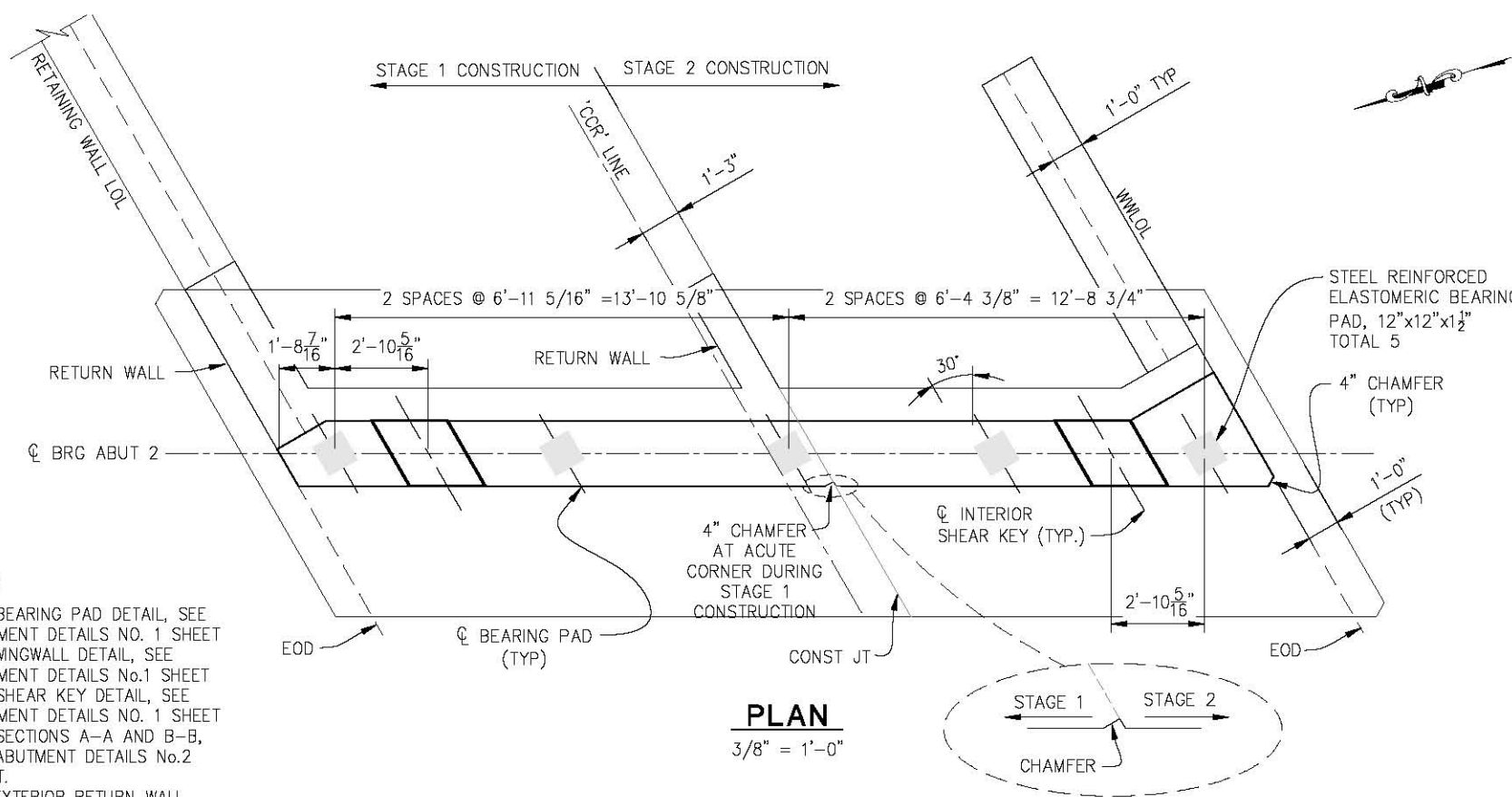
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

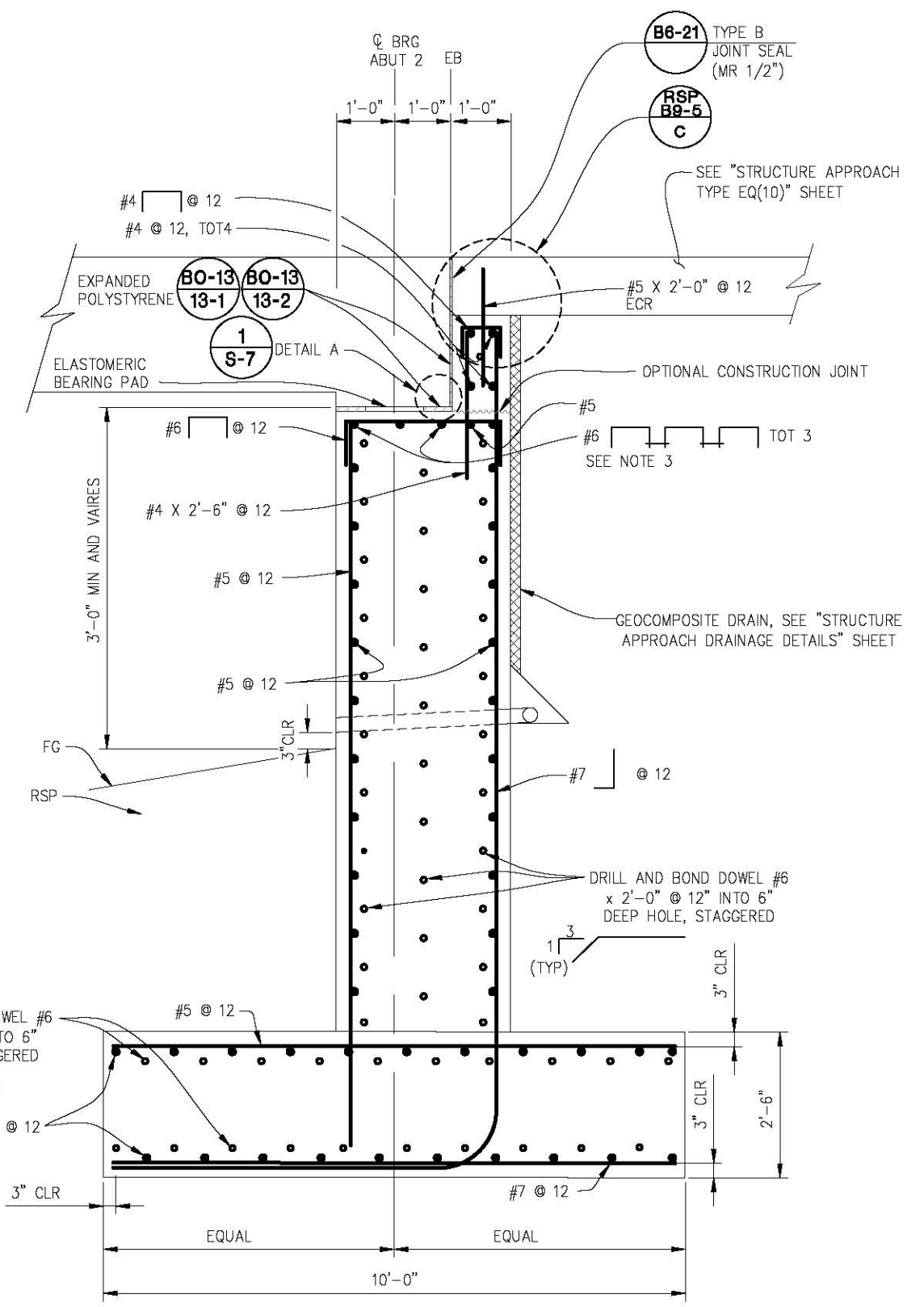
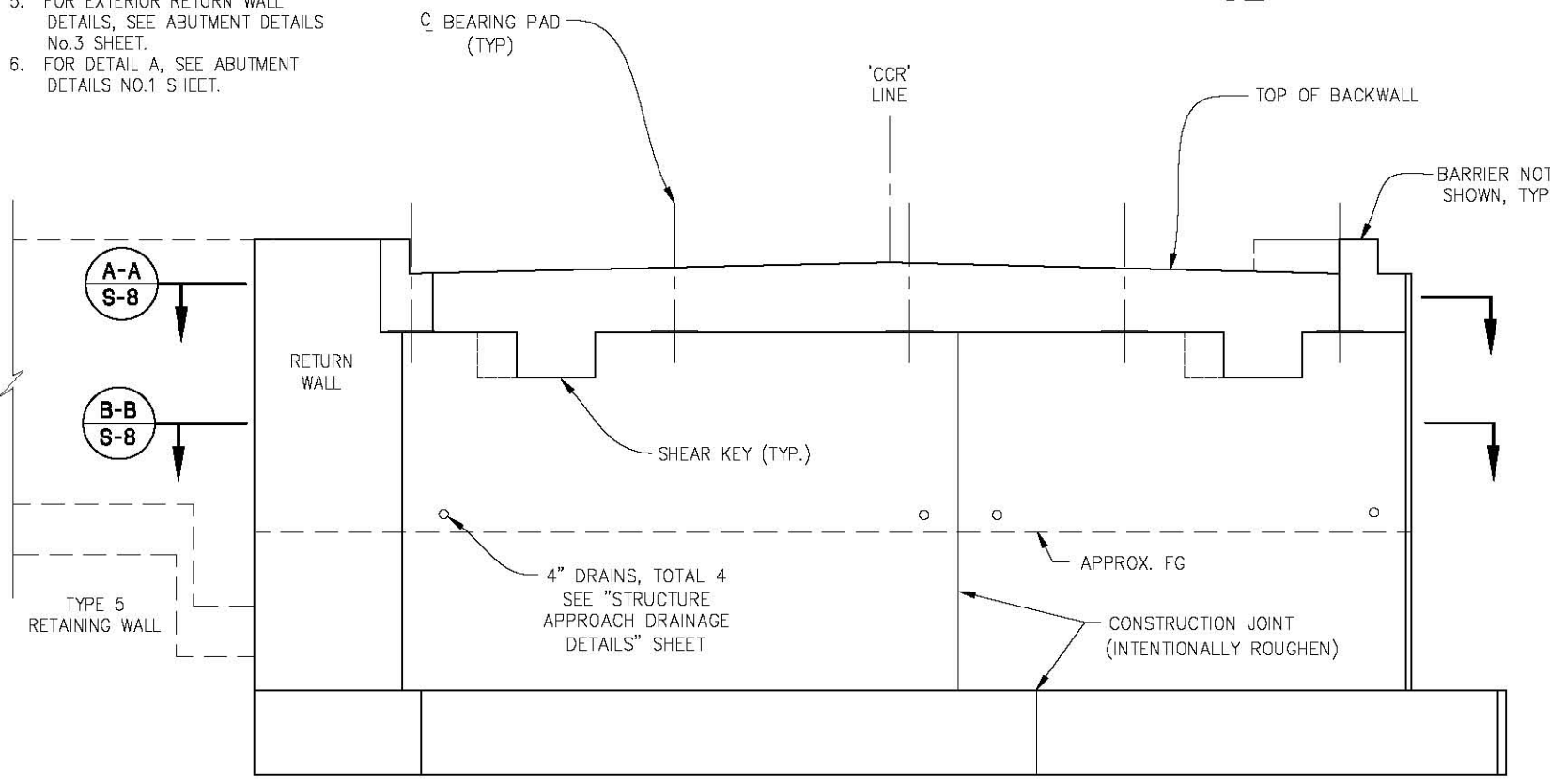
**ABUTMENT NO.1 LAYOUT**  
**SCALE : AS NOTED**

SHEET  
**S-5**  
 26 OF 39  
 W.O. No. 77139

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 FOR REDUCED PLANS



- NOTES:**
1. FOR BEARING PAD DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET
  2. FOR WINGWALL DETAIL, SEE ABUTMENT DETAILS NO.1 SHEET
  3. FOR SHEAR KEY DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET
  4. FOR SECTIONS A-A AND B-B, SEE ABUTMENT DETAILS No.2 SHEET.
  5. FOR EXTERIOR RETURN WALL DETAILS, SEE ABUTMENT DETAILS No.3 SHEET.
  6. FOR DETAIL A, SEE ABUTMENT DETAILS NO.1 SHEET.



**ABUTMENT NO. 2 LAYOUT**  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF :  
 [Signature]  
 REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081

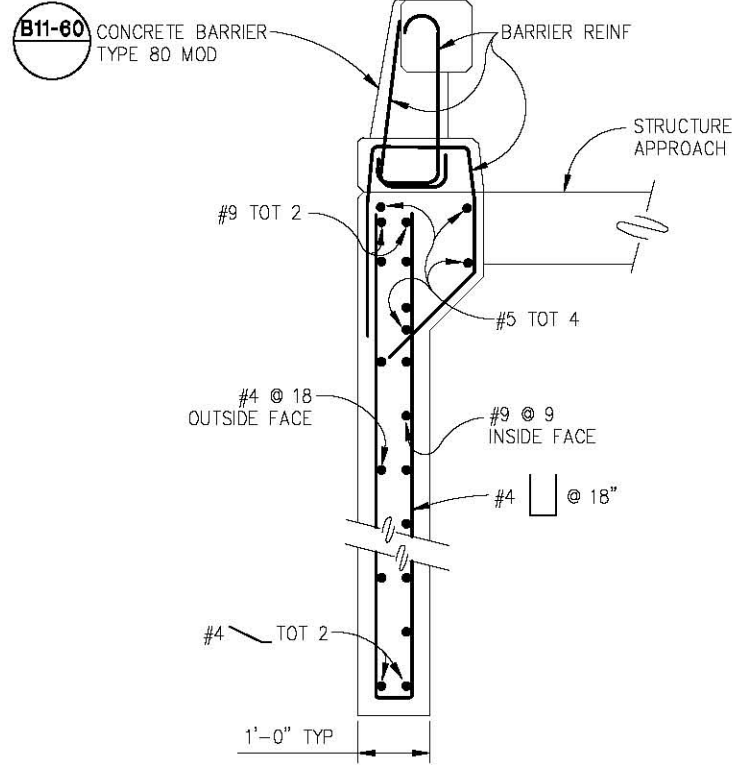


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

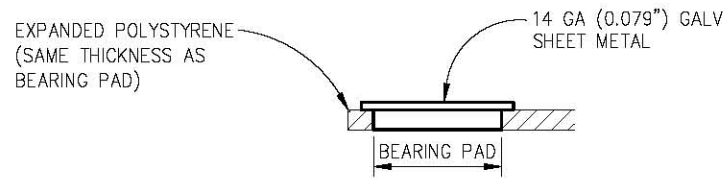
**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-6**  
 27 OF 39  
 W.O. No. 77139

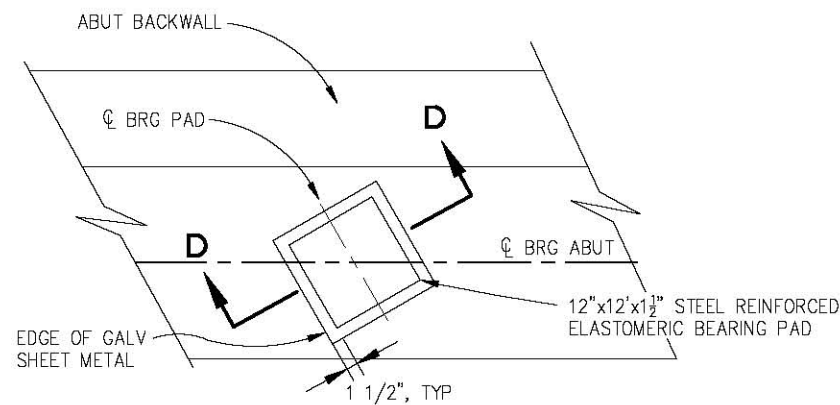
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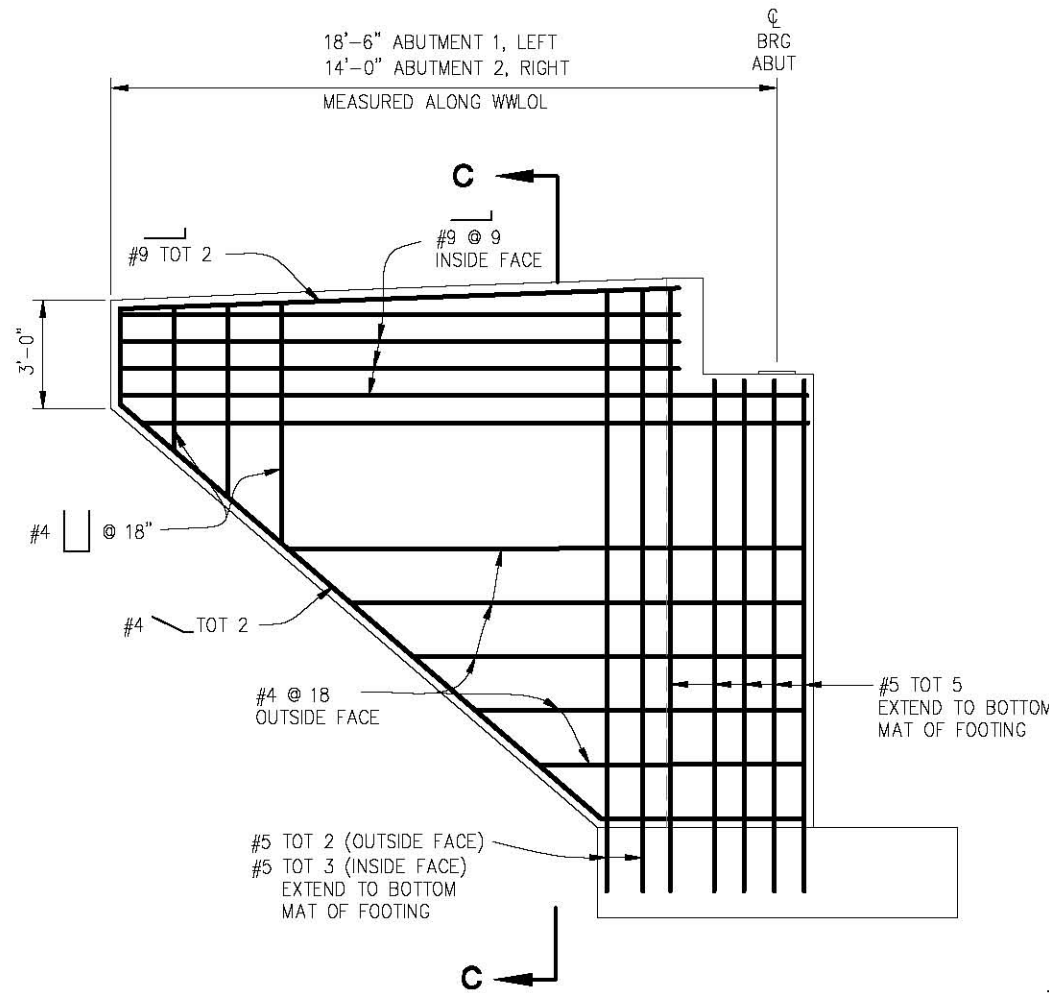
**SECTION C-C**  
 3/4"=1'-0"



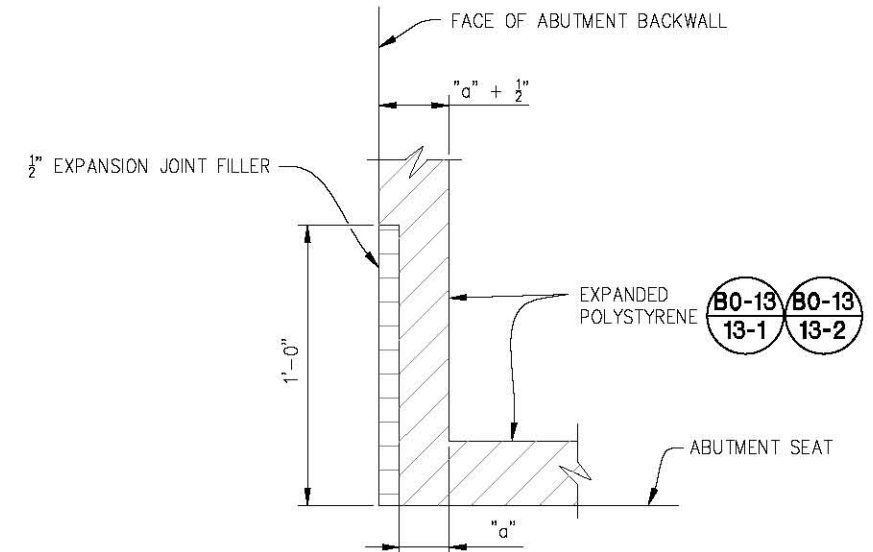
**SECTION D-D**  
 N.T.S.



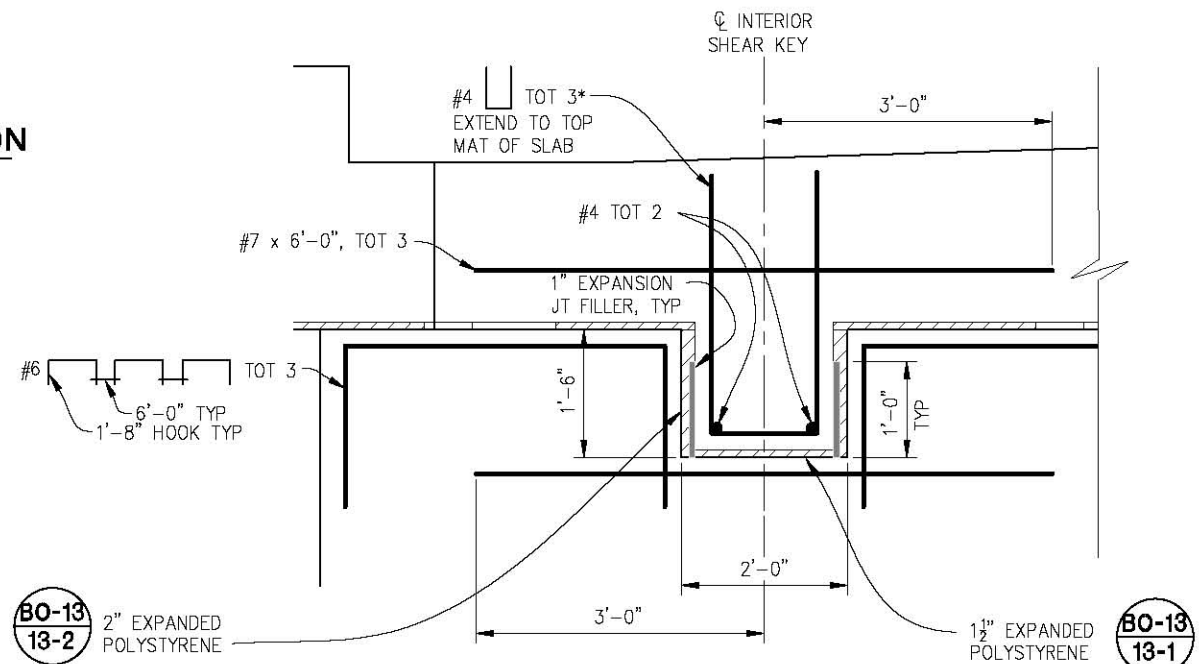
**BEARING PAD DETAIL**  
 1"=1'-0"



**MIRRORED WINGWALL ELEVATION**  
 ABUTMENT 1 LEFT SHOWN, ABUTMENT 2, RIGHT SIMILAR  
 3/8"=1'-0"



**1 DETAIL A**  
 N.T.S.



**SHEAR KEY DETAIL**  
 1"=1'-0"

\* INDICATES EPOXY COATED REINFORCEMENT  
**ABUTMENT DETAILS NO.1**  
 SCALE: AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 1/17/20  
 ROAD NUMBER: 081

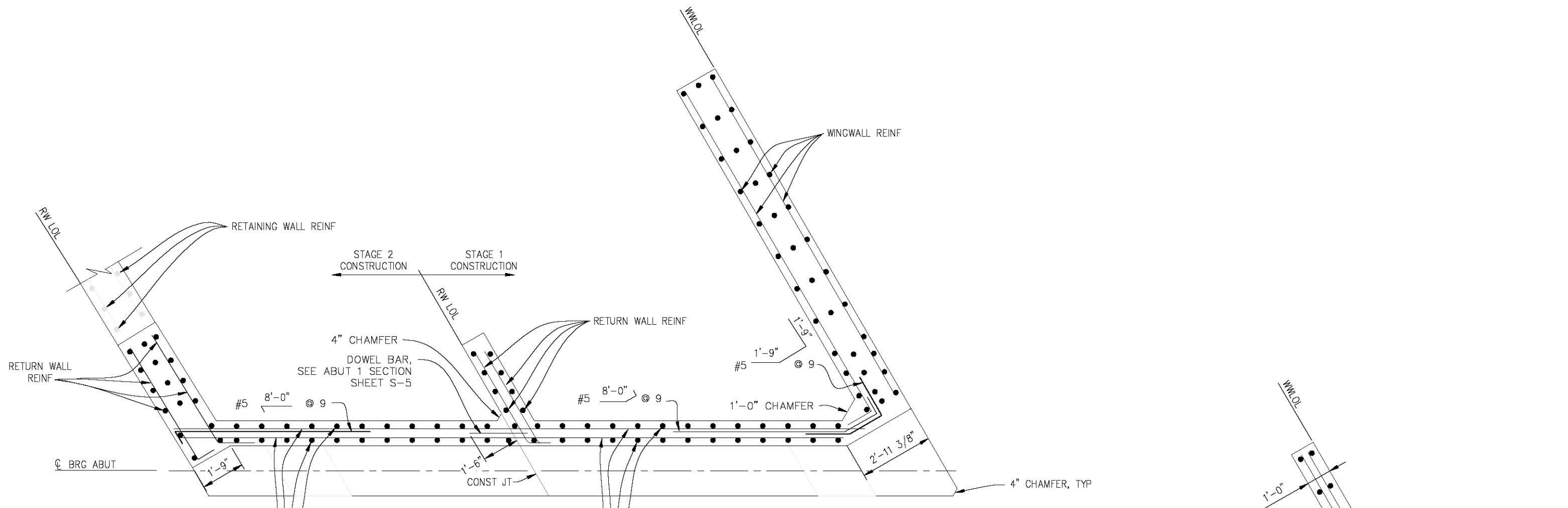


**COUNTY OF EL DORADO**  
 DEPARTMENT OF TRANSPORTATION

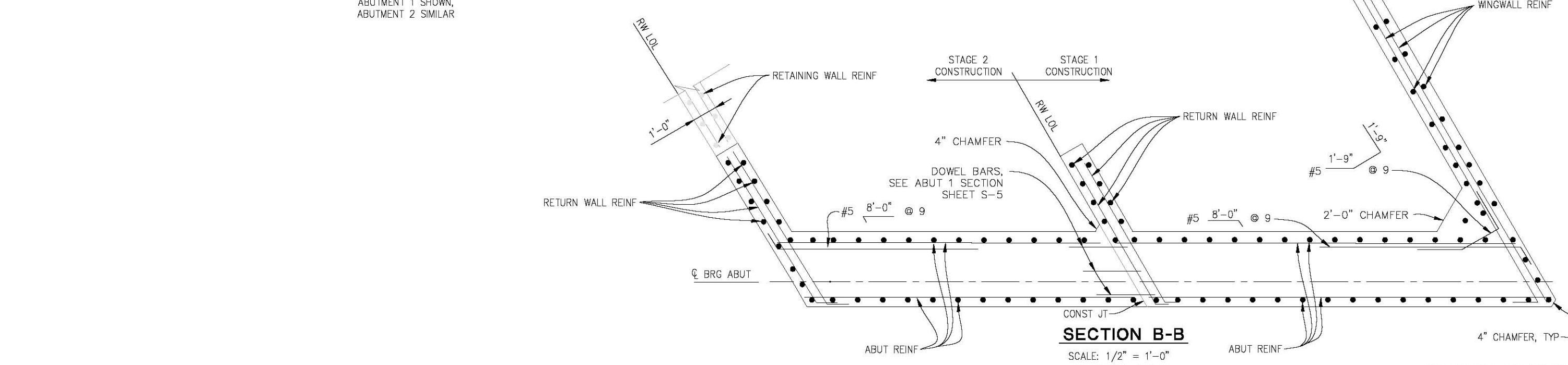
**CLEAR CREEK ROAD P.M. 0.25**  
 BRIDGE REPLACEMENT

SHEET  
**S-7**  
 28 OF 39  
 W.O. No. 77139

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\S-8.dwg Layout Tab: S-8 Feb 06, 2020 - 9:41am BRichards  
 FOR REDUCED PLANS



**SECTION A-A**  
 SCALE: 1/2" = 1'-0"  
 ABUTMENT 1 SHOWN,  
 ABUTMENT 2 SIMILAR



**SECTION B-B**  
 SCALE: 1/2" = 1'-0"  
 ABUTMENT 1 SHOWN,  
 ABUTMENT 2 SIMILAR

**ABUTMENT DETAILS NO.2**  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*(Signature)*  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 81

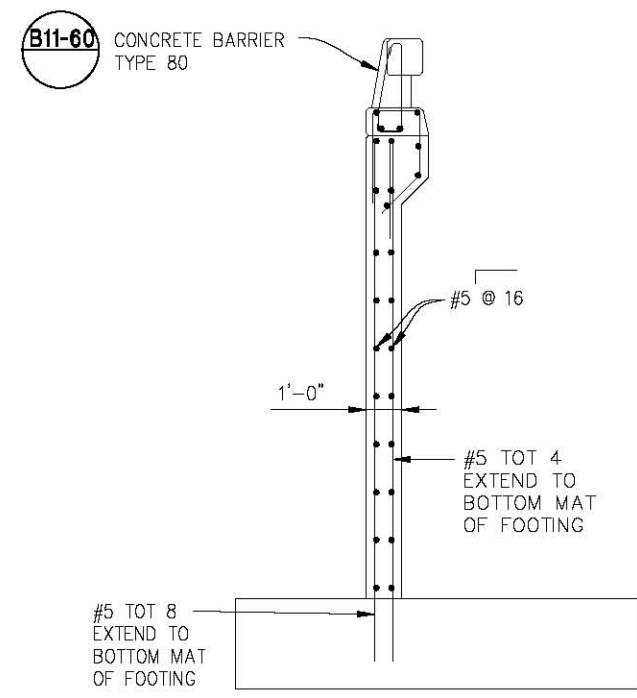


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

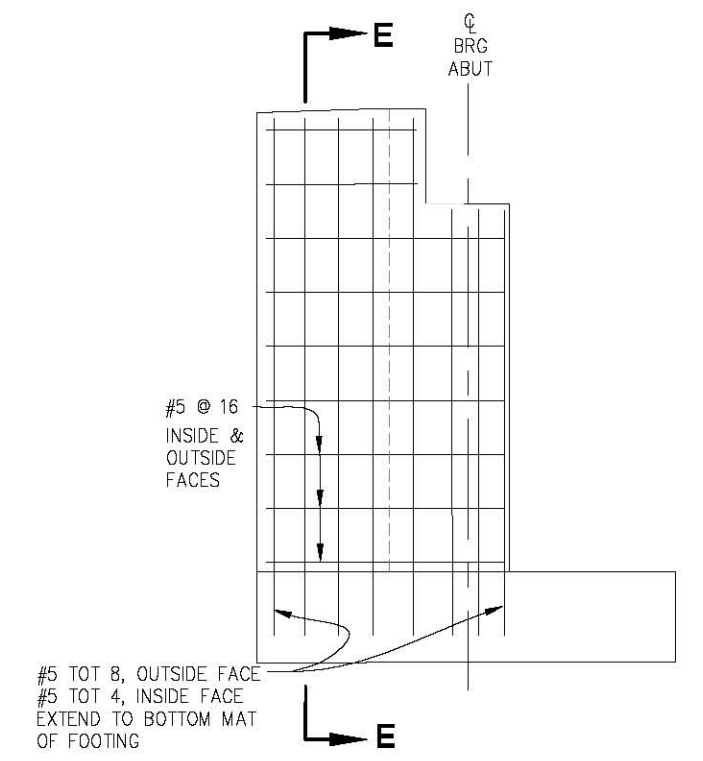
**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-8**  
 29 OF 39  
 W.O. No. 77139

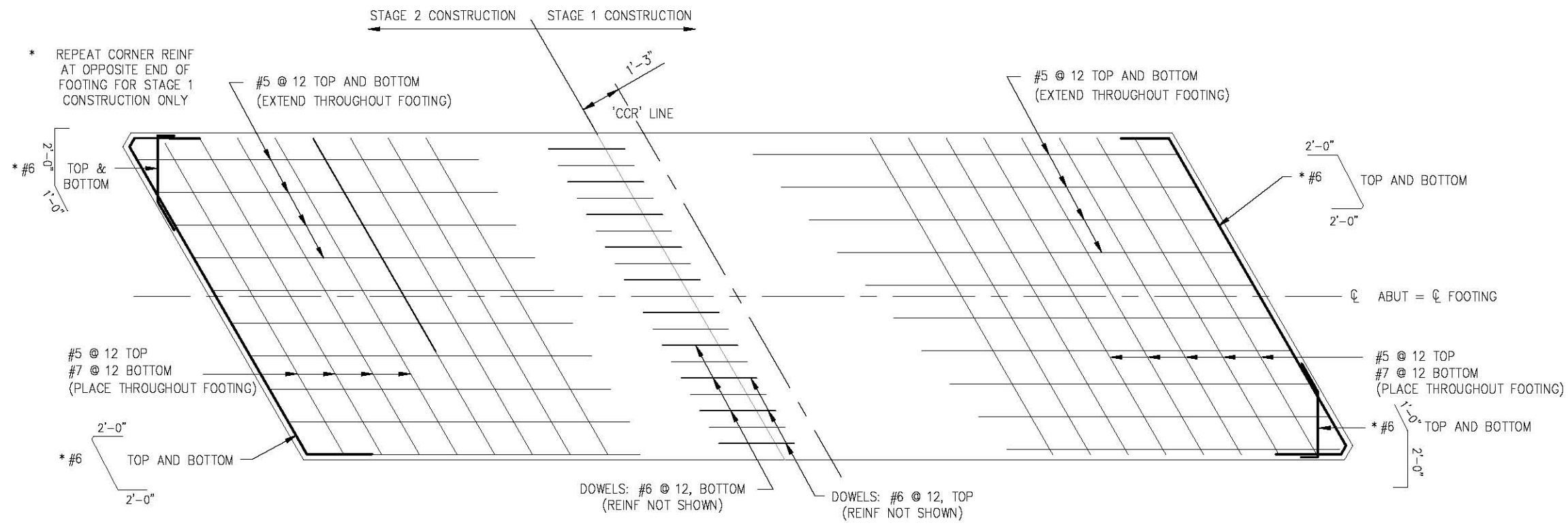
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 FOR REDUCED PLANS



**SECTION E-E**  
 SCALE: 3/8" = 1'-0"



**RETURN WALL REINFORCEMENT DETAIL**  
 ABUTMENT 1 RIGHT SHOWN, ABUTMENT 2 SIMILAR  
 SCALE: 3/8" = 1'-0"



**FOOTING REINFORCEMENT PLAN**  
 ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR  
 SCALE: 1/2" = 1'-0"

**ABUTMENT DETAILS NO.3**  
 SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 81

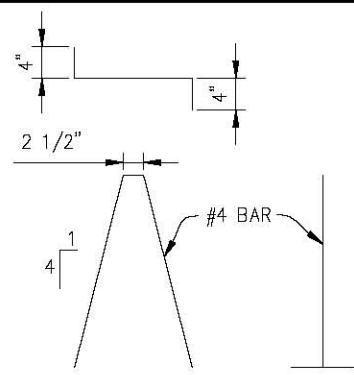


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

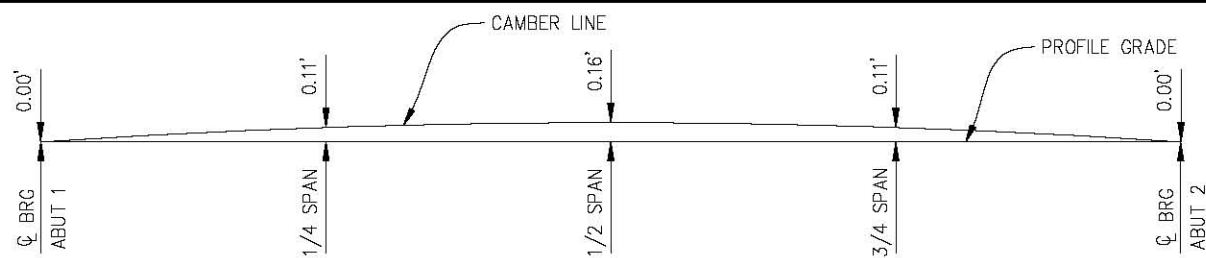
SHEET  
**S-9**  
 30 OF 39  
 W.O. No. **77139**

ORIGINAL SCALE: 1/8" = 1'-0" INCHES  
 Drawing Name: C:\Civil 3D Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\S-10.dwg Layout Tab: S-10 Feb 06, 2020 - 9:58am BRichards



**BAR CHAIR DETAIL**

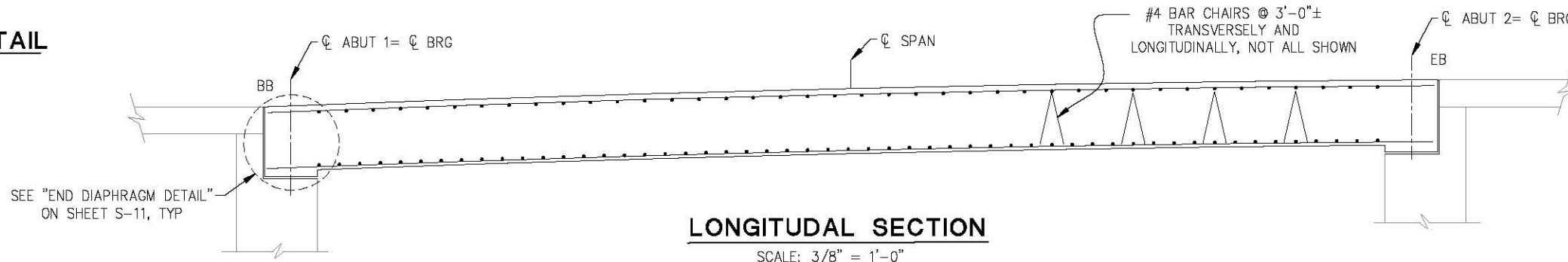
NTS



**CAMBER DIAGRAM**

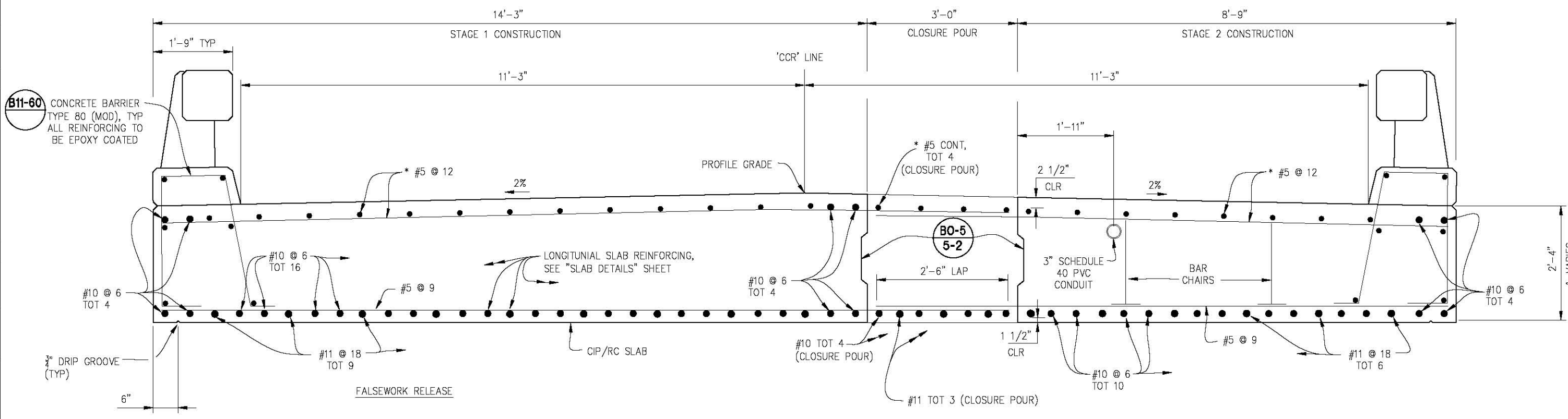
NTS

NOTE:  
 DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK  
 SETTLEMENT OR FALSEWORK DEFLECTION



**LONGITUDINAL SECTION**

SCALE: 3/8" = 1'-0"



**TYPICAL SECTION**

SCALE: 1" = 1'-0"

**ALTERNATIVE 1:**  
 FALSEWORK SHALL BE RELEASED AS SOON AS PERMITTED BY THE SPECIFICATIONS. CLOSURE POUR SHALL NOT BE PLACED SOONER THAN 60 DAYS AFTER THE FALSEWORK HAS BEEN RELEASED.

**ALTERNATIVE 2:**  
 FALSEWORK SHALL NOT BE RELEASED LESS THAN 28 DAYS AFTER THE LAST CONCRETE HAS BEEN PLACED. CLOSURE POUR SHALL NOT BE PLACED SOONER THAN 14 DAYS AFTER THE FALSEWORK HAS BEEN RELEASED.

WHEN FALSEWORK RELEASE ALTERNATIVE 2 IS USED, CAMBER VALUES ARE 0.75 TIMES THOSE SHOWN.

NOTE:  
 \* ALL TOP MAT REINFORCEMENT TO BE EPOXY COATED

**TYPICAL SECTION**  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081

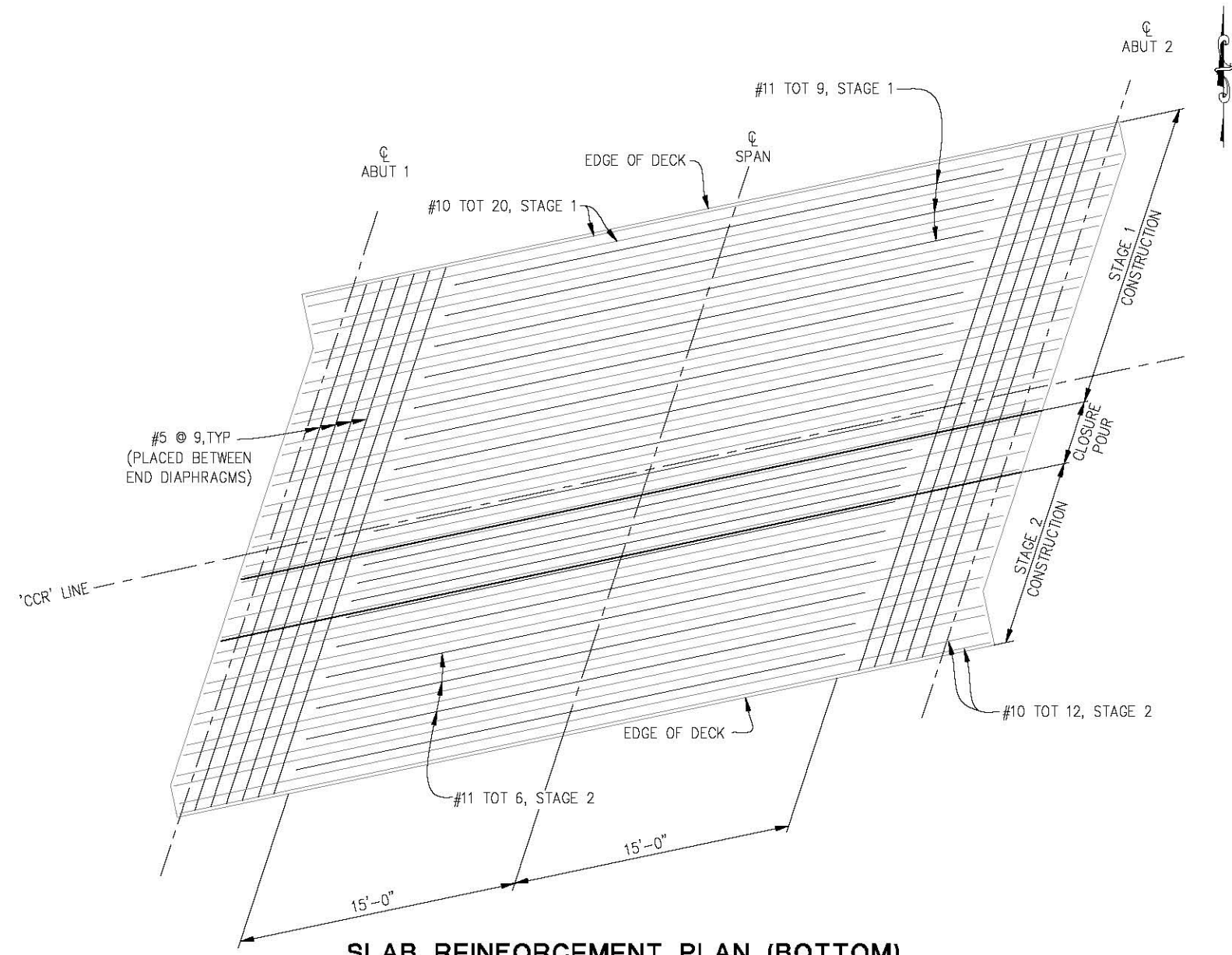


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-10**  
 31 OF 39  
 W.O. No. **77139**

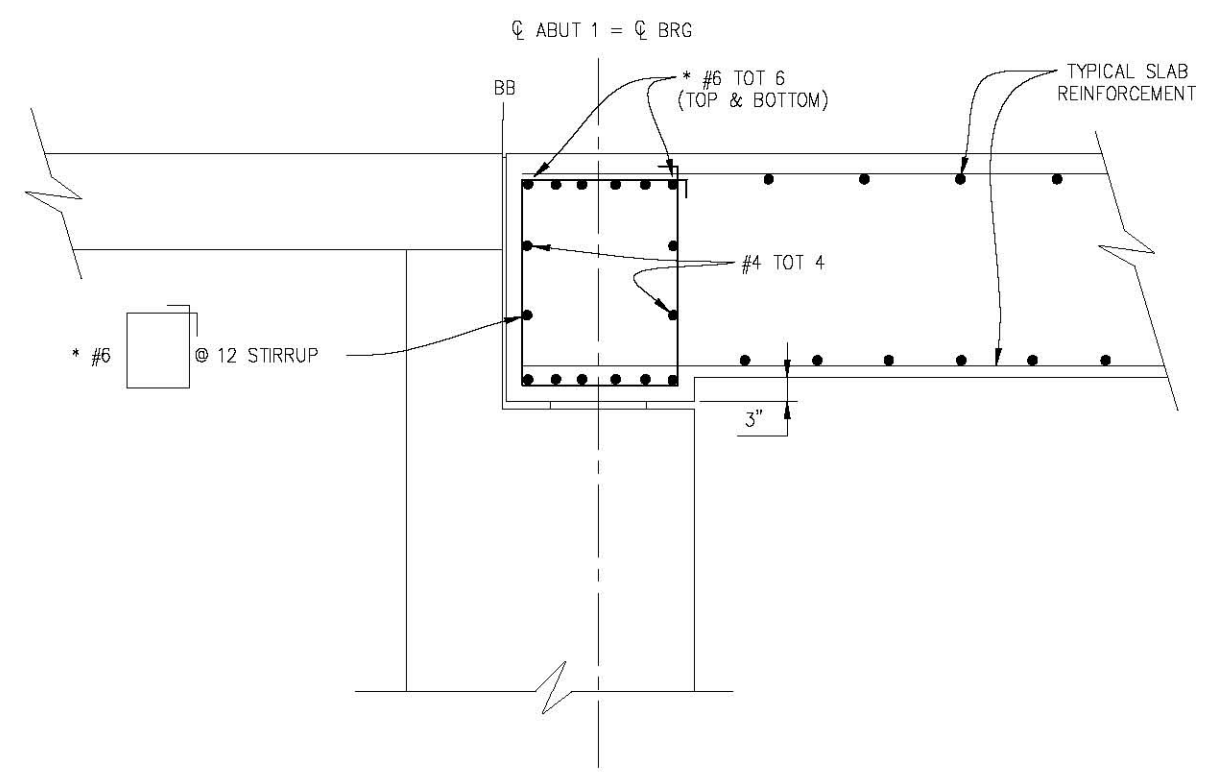
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 FOR REDUCED PLANS



**SLAB REINFORCEMENT PLAN (BOTTOM)**

1/4"=1'-0"

SEE "TYPICAL SECTION" SHEET FOR REINFORCEMENT IN TOP OF SLAB



**END DIAPHRAGM DETAIL**

1"=1'-0"

ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR  
 \* - INDICATES EPOXY COATED REINFORCEMENT

2  
 1  
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Michael S. Prohm*  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081



COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

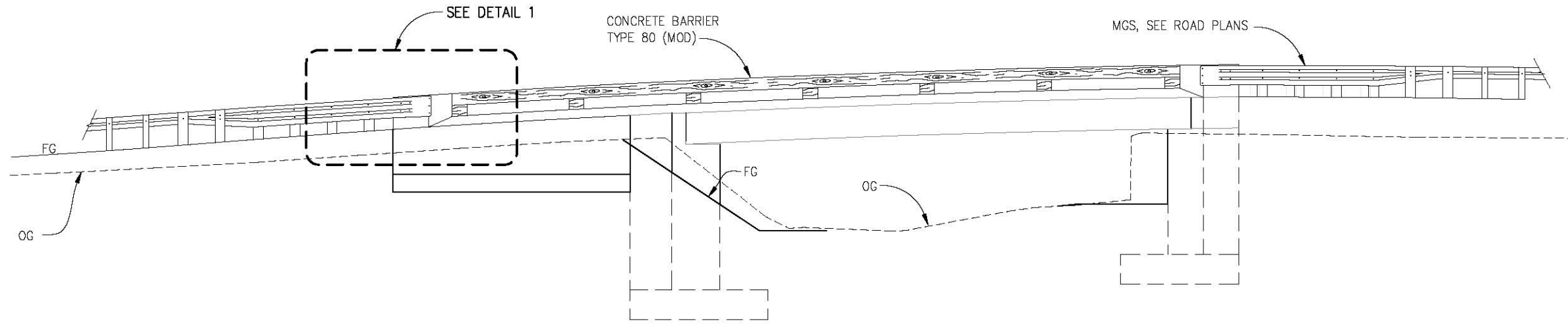
CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT

SLAB DETAILS  
 SCALE: AS NOTED

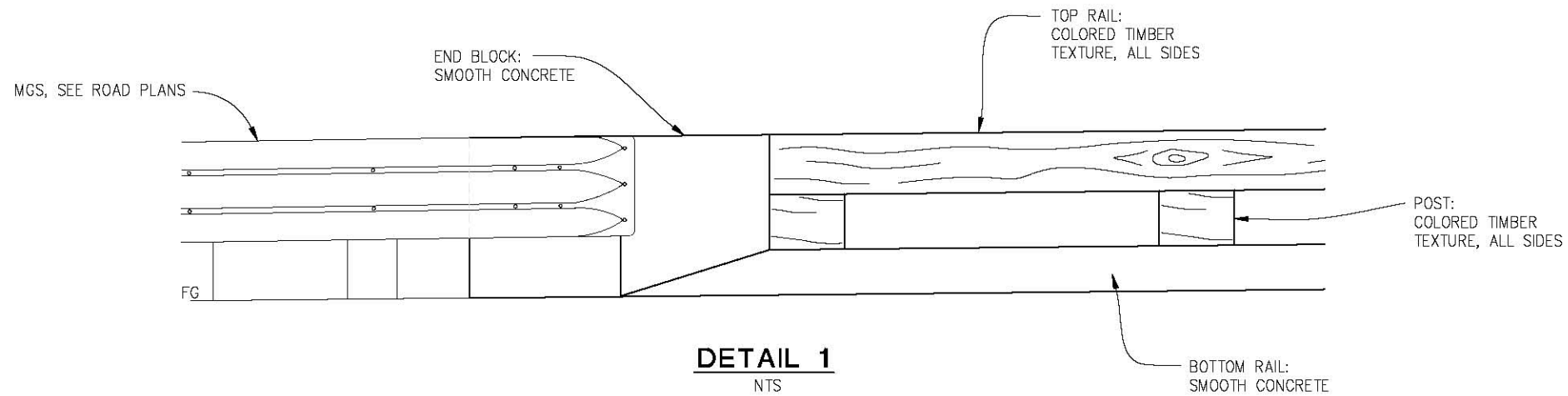
SHEET  
**S-11**  
 32 OF 39  
 W.O. No. **77139**



ORIGINAL SCALE IS IN INCHES  
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 Layout Tab: S-12 Feb 06, 2020 - 10:04am BRichards  
 FOR REDUCED PLANS  
 2  
 1  
 0



**ELEVATION**  
NTS



**DETAIL 1**  
NTS

ARCHITECTURAL TREATMENT  
SCALE: AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
 CHECKED: KL  
 ROAD NUMBER: 81  
 DRAWN: RR  
 DATE: 2/6/20

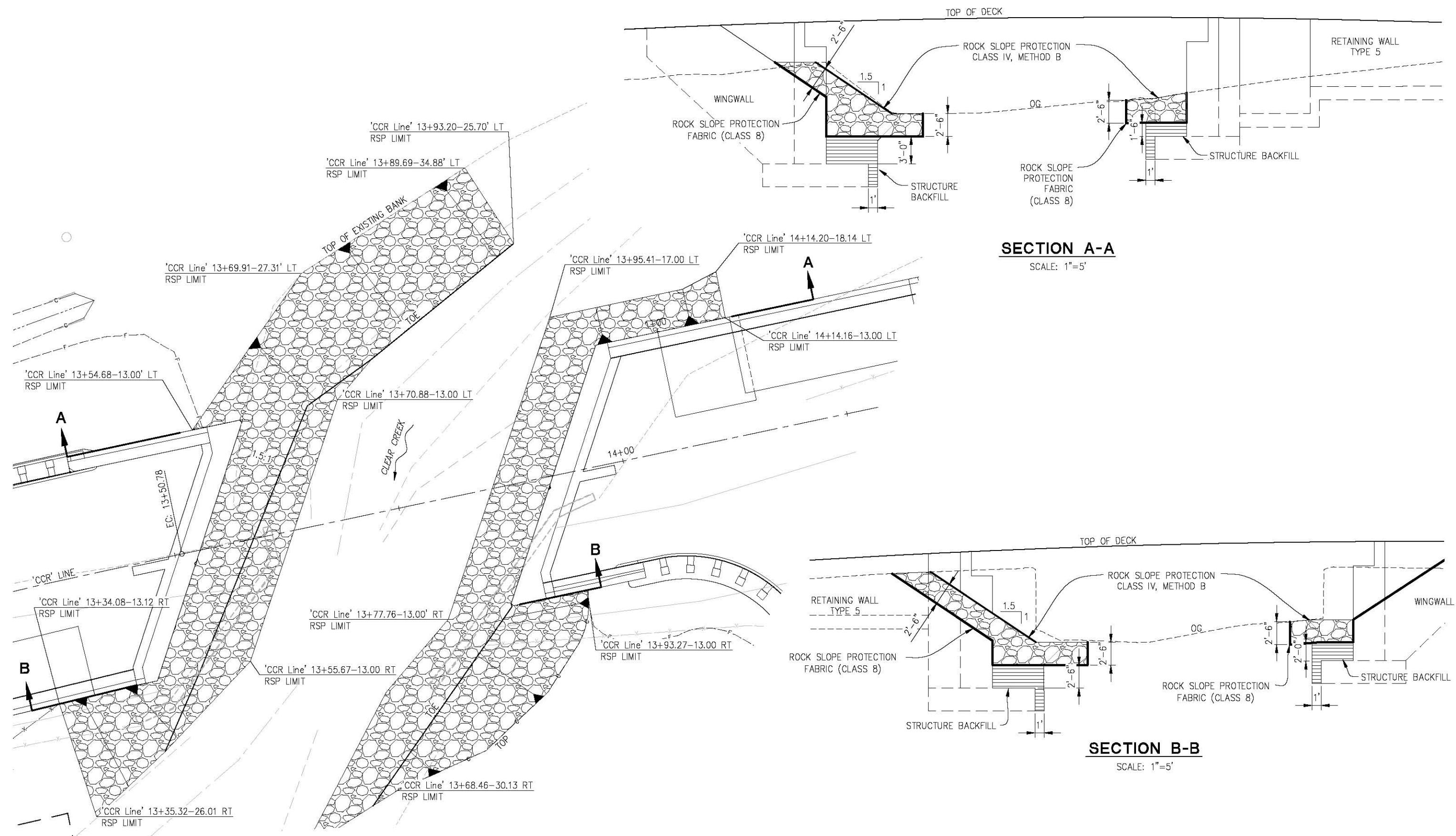


COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT

SHEET  
**S-12**  
 33 OF 39  
 W.C. No. 77139

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D\Projects\77139 Clear Creek Rd. P.M. 0.25 Bridge Replacement\CADD Files\Sheets\S-13.dwg Layout Tab: S-13 Feb 06, 2020 10:16am BRichards  
 FOR REDUCED PLANS



**SECTION A-A**  
SCALE: 1"=5'

**SECTION B-B**  
SCALE: 1"=5'

**PLAN**  
SCALE: 1"=5'

**ROCK SLOPE PROTECTION**  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: \_\_\_\_\_

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 81

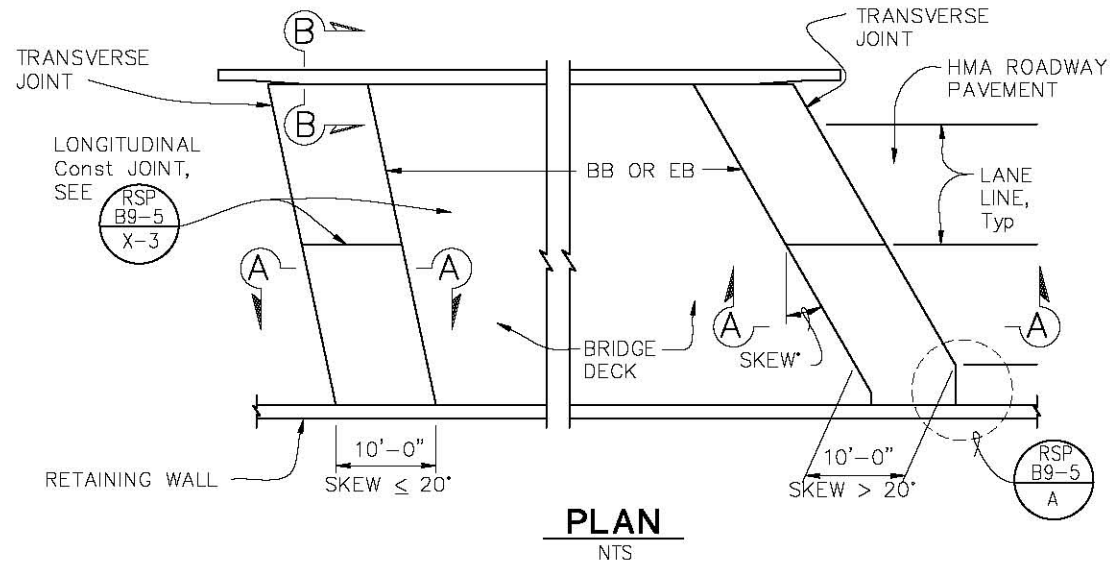


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

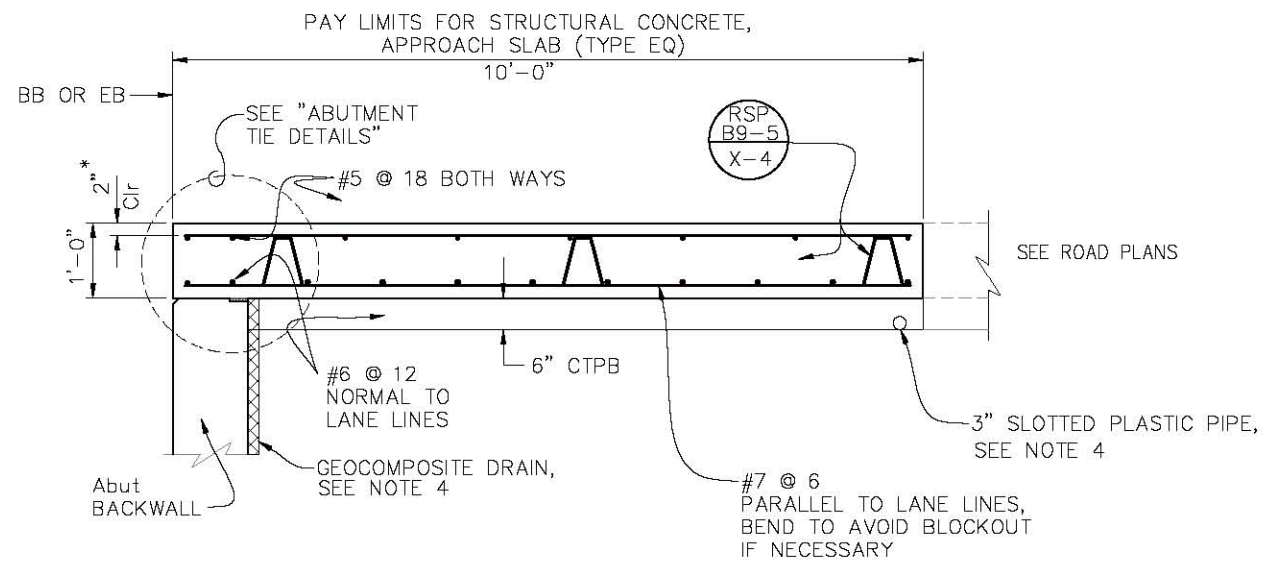
**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

SHEET  
**S-13**  
 34 OF 39  
 W.G. No. **77139**

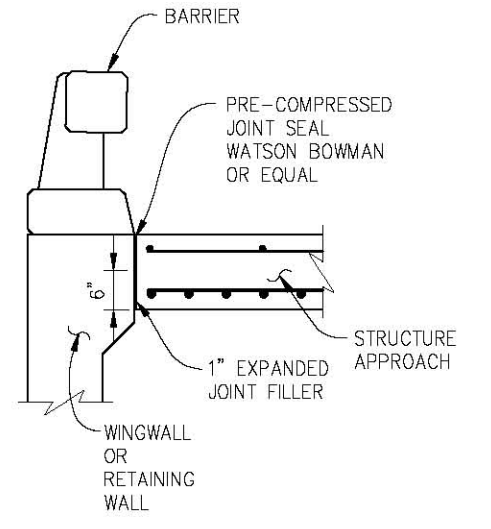
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 FOR REDUCED PLANS



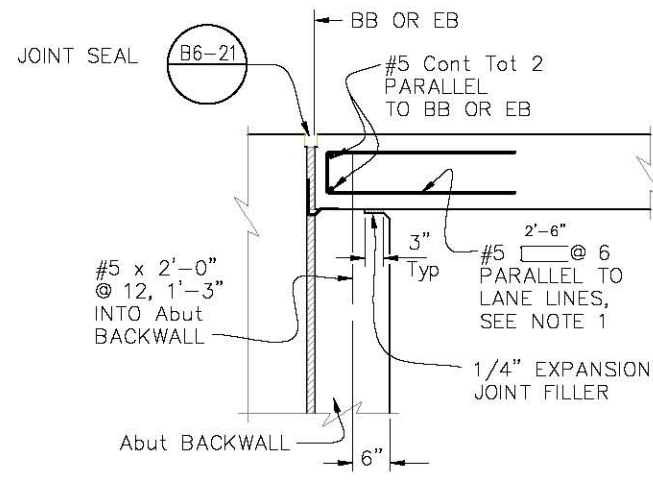
**PLAN**  
NTS



**SECTION A-A**  
3/4"=1'-0"



**SECTION B-B**  
3/4"=1'-0"



MR ≤ 2"  
SEAT TYPE ABUTMENT  
**ABUTMENT TIE DETAILS**

**LEGEND:**

\* ALL APPROACH SLAB REINFORCEMENT SHALL BE EPOXY COATED AND MINIMUM TOP MAT COVER 2 1/2" IN FREEZE-THAW AREA.

**NOTES:**

1. FOR MR ≤ 2", ADJUST REINFORCEMENT TO CLEAR SAWCUT FOR SEALED JOINT.
2. AT THE CONTRACTOR'S OPTIONS, APPROACH SLAB TRANSVERSE REINFORCEMENT MAY BE PLACED PARALLEL TO BB OR EB. SPACING OF TRANSVERSE REINFORCEMENT IS MEASURED ALONG ROADWAY.
3. FOR DETAILS NOT SHOWN, REFER TO REVISED STANDARD PLAN RSP B9-5.
4. FOR STRUCTURE APPROACH DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.

**STRUCTURE APPROACH TYPE EQ(10)  
AS NOTED**



PREPARED UNDER THE SUPERVISION OF:  
*Michael S. Irons*  
REGISTERED CIVIL ENGINEER

DESIGNED: MSF  
DRAWN: RR  
CHECKED: KL  
DATE: 2/6/20  
ROAD NUMBER: 81

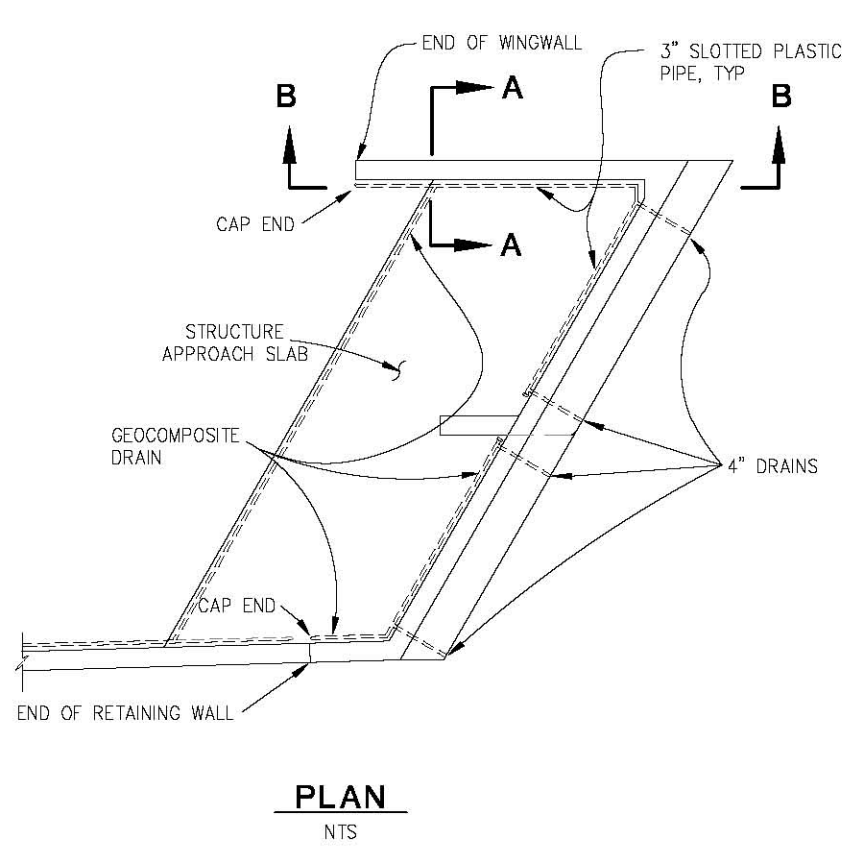


**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

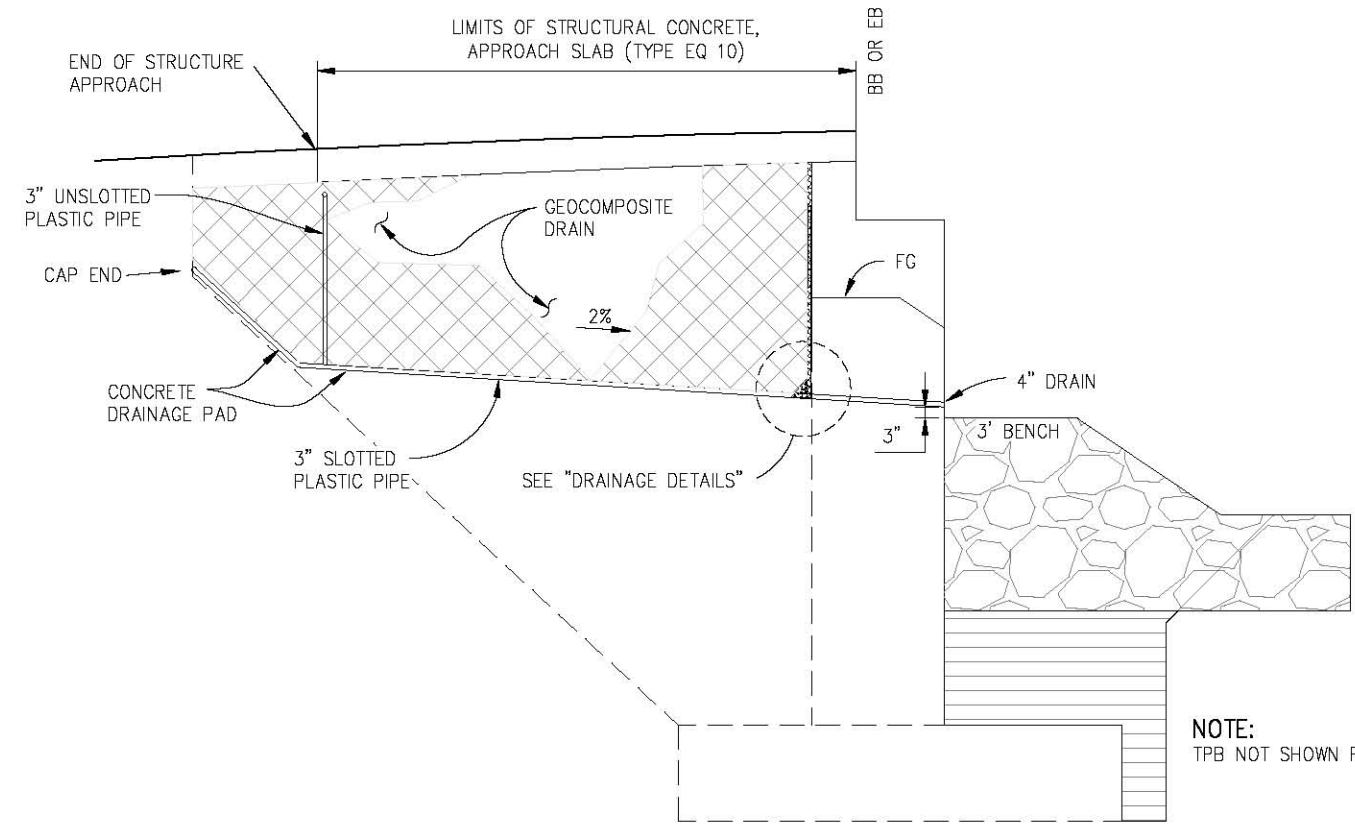
**CLEAR CREEK ROAD P.M. 0.25  
BRIDGE REPLACEMENT**

SHEET  
**S-14**  
35 OF 39  
W.G. No. **77139**

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 FOR REDUCED PLANS  
 2  
 1  
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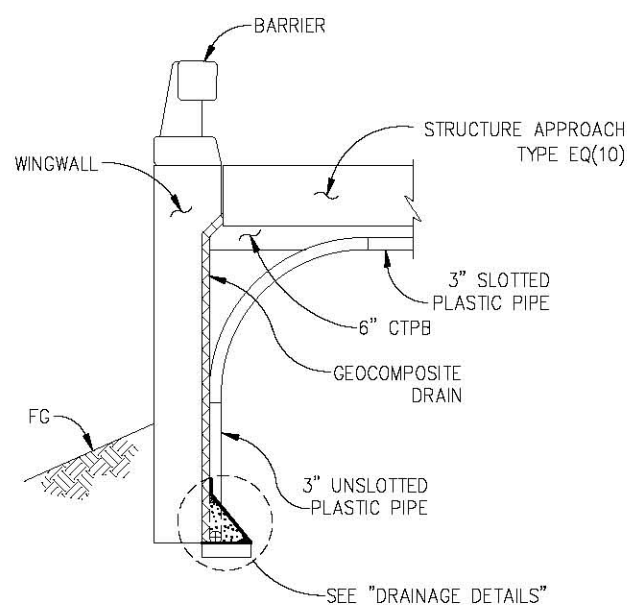
**PLAN**  
NTS



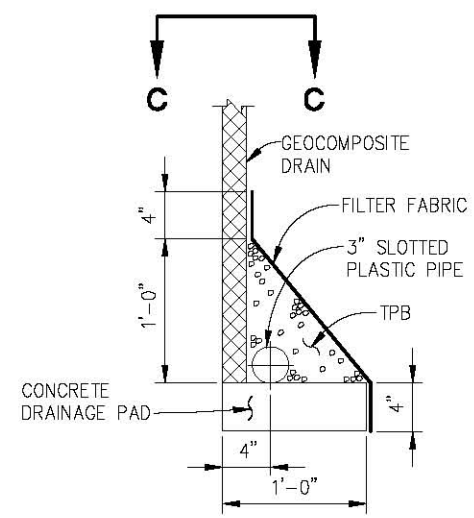
**SECTION B-B**  
NTS

NOTE:  
TPB NOT SHOWN FOR CLARITY

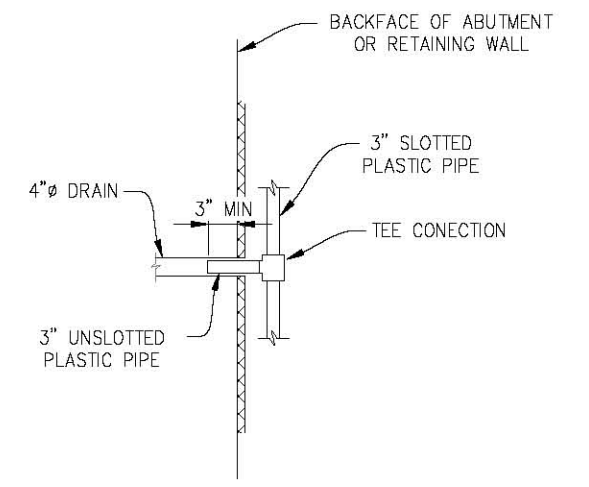
- NOTES:**
1. ALL BENDS IN PLASTIC PIPE MUST HAVE 3'-0" MIN RADIUS. PLASTIC PIPE USED FOR BENDS IS NOT REQUIRED TO BE SLOTTED.
  2. GEOCOMPOSITE DRAIN, CEMENT TREATED PERMEABLE BASE AND 3" PLASTIC PIPES CONTINUOUS BEHIND ABUTMENTS.
  3. CONNECT LOW END OF PLASTIC PIPE TO MAIN OUTLET PIPE AS APPLICABLE.
  4. FOR APPROACH SLAB (TYPE EQ(10) DETAILS, SEE STRUCTURE APPROACH TYPE EQ(10) SHEET.



**SECTION A-A**  
NTS



**DRAINAGE PAD**  
**DRAINAGE DETAILS**  
1 1/2" = 1'-0"



**SECTION C-C**  
NTS

**STRUCTURE APPROACH DRAINAGE DETAILS**  
SCALE: AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: MSF  
 DRAWN: RR  
 CHECKED: KL  
 DATE: 2/6/20  
 ROAD NUMBER: 081

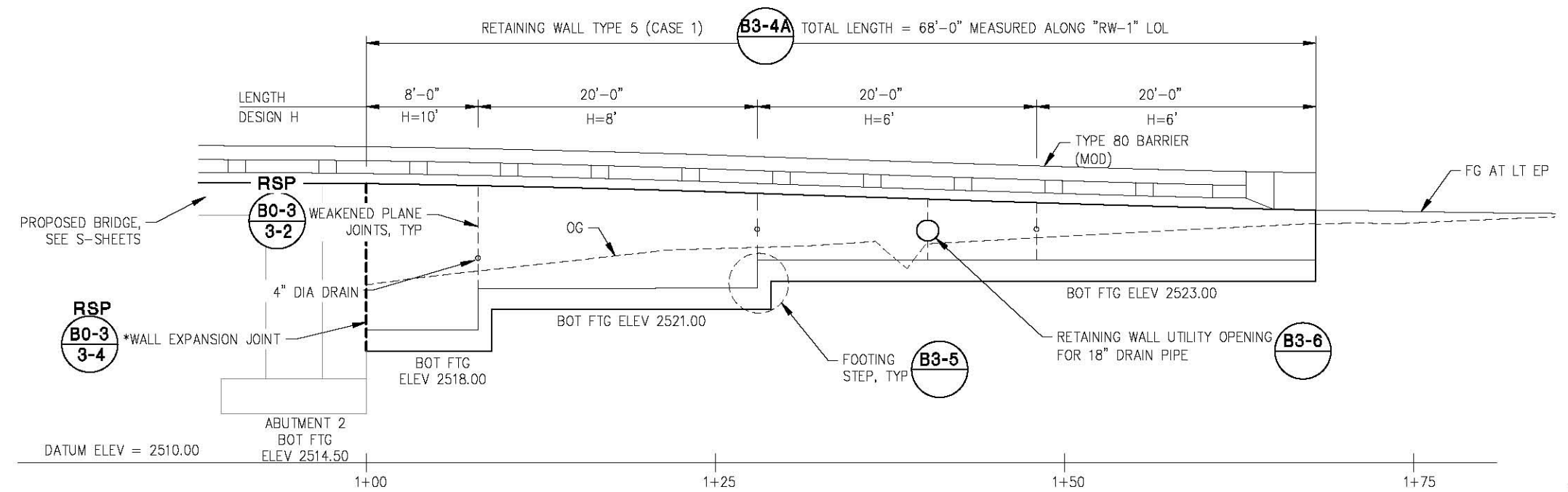


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD P.M. 0.25**  
**BRIDGE REPLACEMENT**

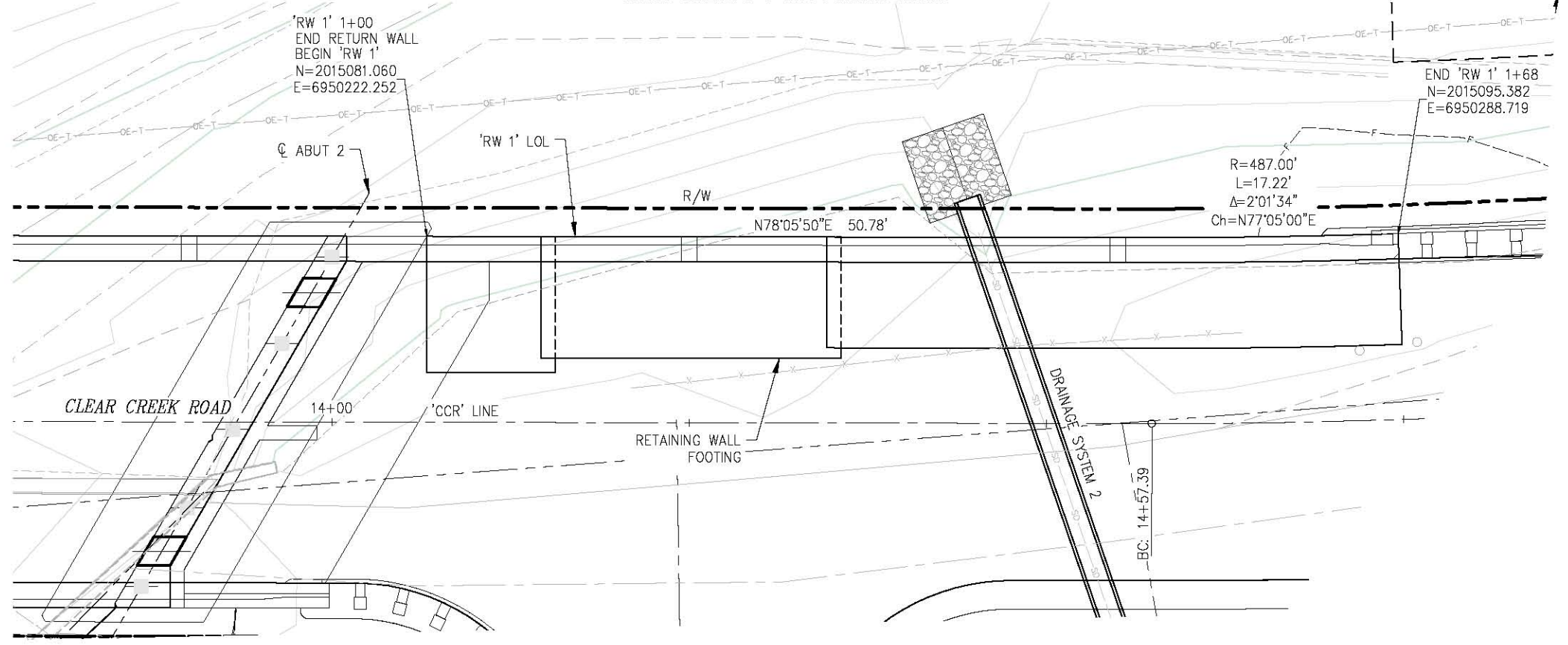
SHEET  
**S-15**  
36 OF 39  
W.G. No. **77139**

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS

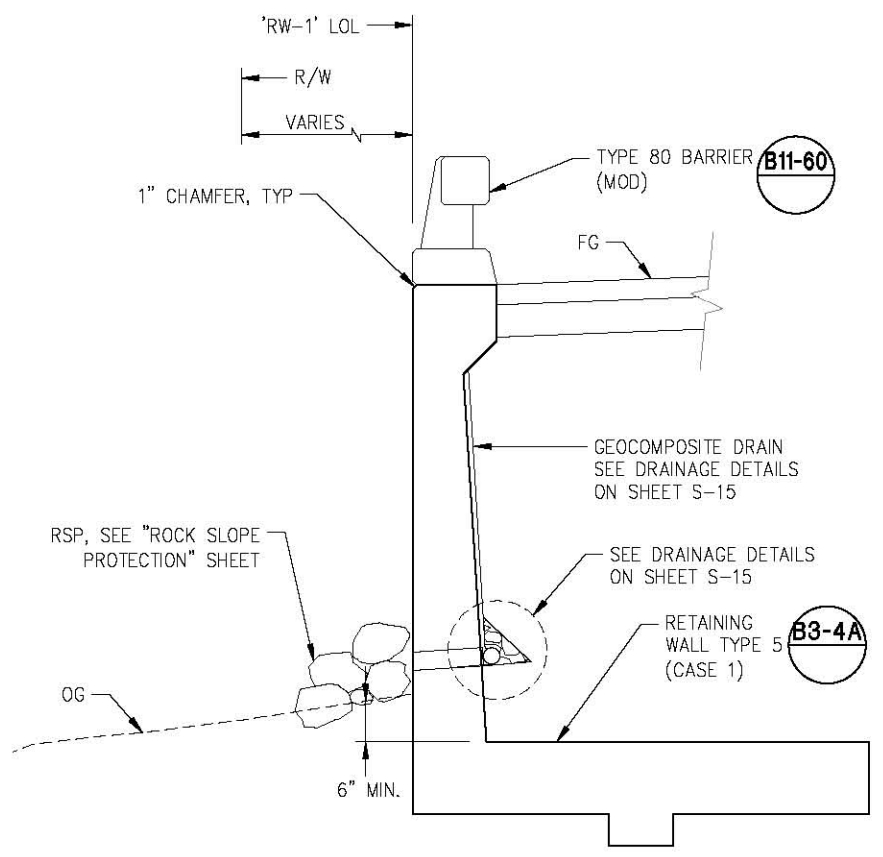


**MIRRORED ELEVATION**  
 SCALE: 1" = 5' H,V  
 \* EXTEND WATERSTOP 6" INTO CONCRETE BARRIER

STATION		ELEVATION
'RW-1'	'CCR'	TOP OF WALL
1+00	14+06.62	2529.95
1+08	14+14.62	2529.82
1+28	14+34.62	2528.52
1+50	14+56.62	2529.24
1+68	14+75.08	2528.06



**PLAN**  
 SCALE: 1" = 5'



**TYPICAL SECTION**  
 SCALE: 1/2" = 1'-0"

LAYOUT  
 RETAINING WALL No.1  
 SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER

DESIGNED: JIB RR  
 DRAWN: RR  
 CHECKED: JIB DATE: 2/6/20  
 ROAD NUMBER: 81

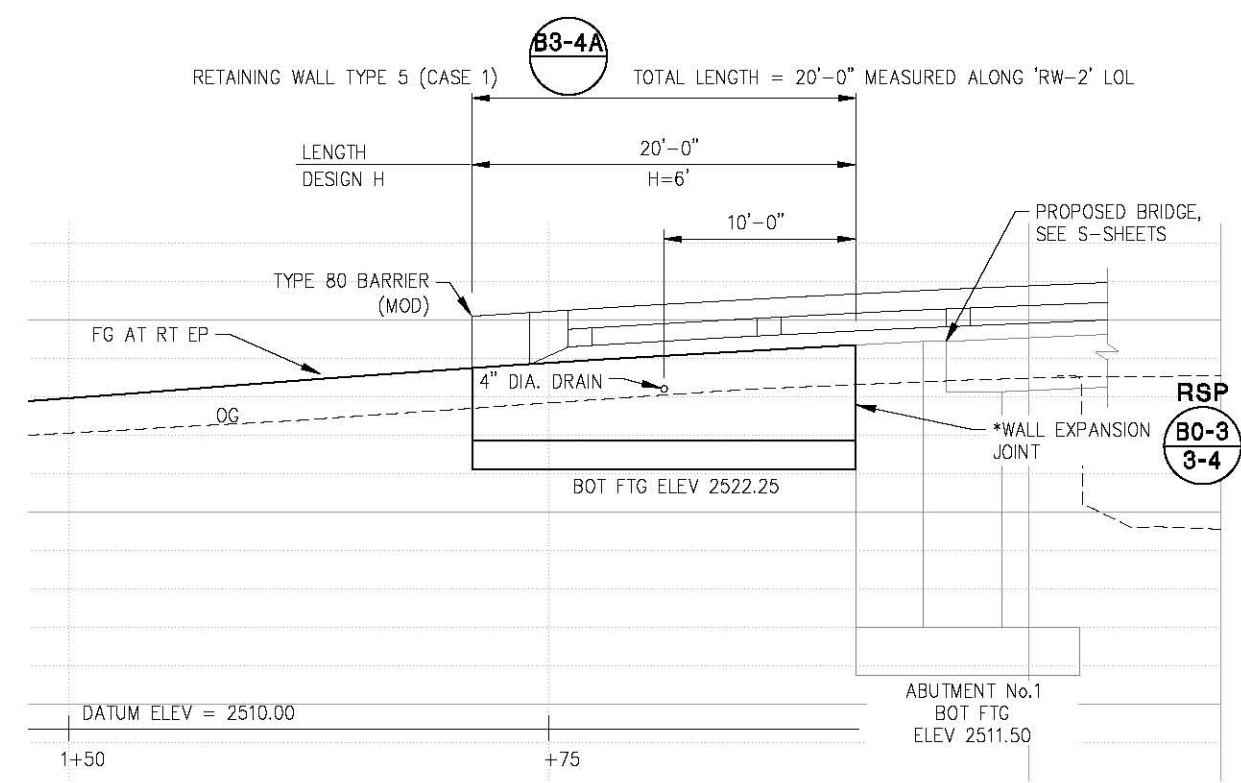


COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT

SHEET  
**S-16**  
 37 OF 39  
 W.D. No. 77139

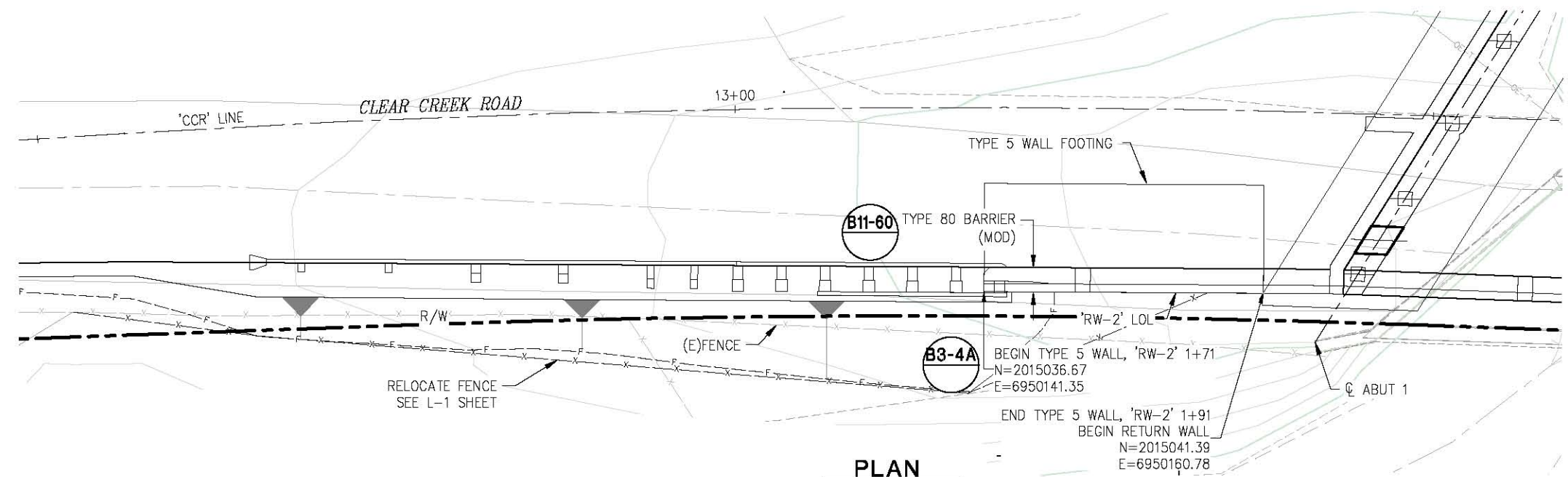
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 FOR REDUCED PLANS  
 2  
 1  
 0



**ELEVATION**

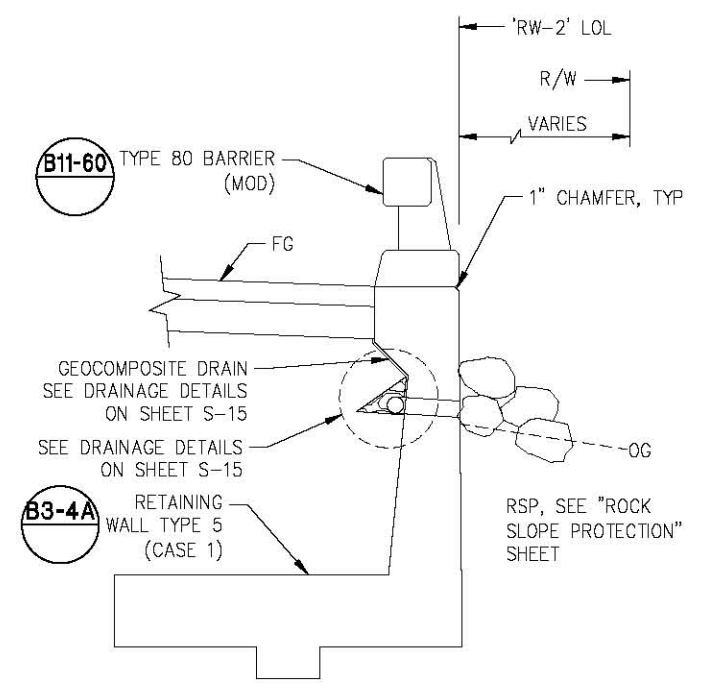
SCALE: 1"=5' H,V  
 \* EXTEND WATERSTOP 6" INTO CONCRETE BARRIER

STATION		ELEVATION
'RW-2'	'CCR'	TOP OF WALL
1+71	13+17.83	2527.51
1+75	13+21.89	2527.78
1+85	13+32.03	2528.38
1+91	13+38.12	2528.71



**PLAN**

SCALE: 1"=5'



**TYPICAL SECTION**

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



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE:

DESIGNED: JIB RR  
 DRAWN: RR  
 CHECKED: JIB DATE: 2/6/20  
 ROAD NUMBER: 81



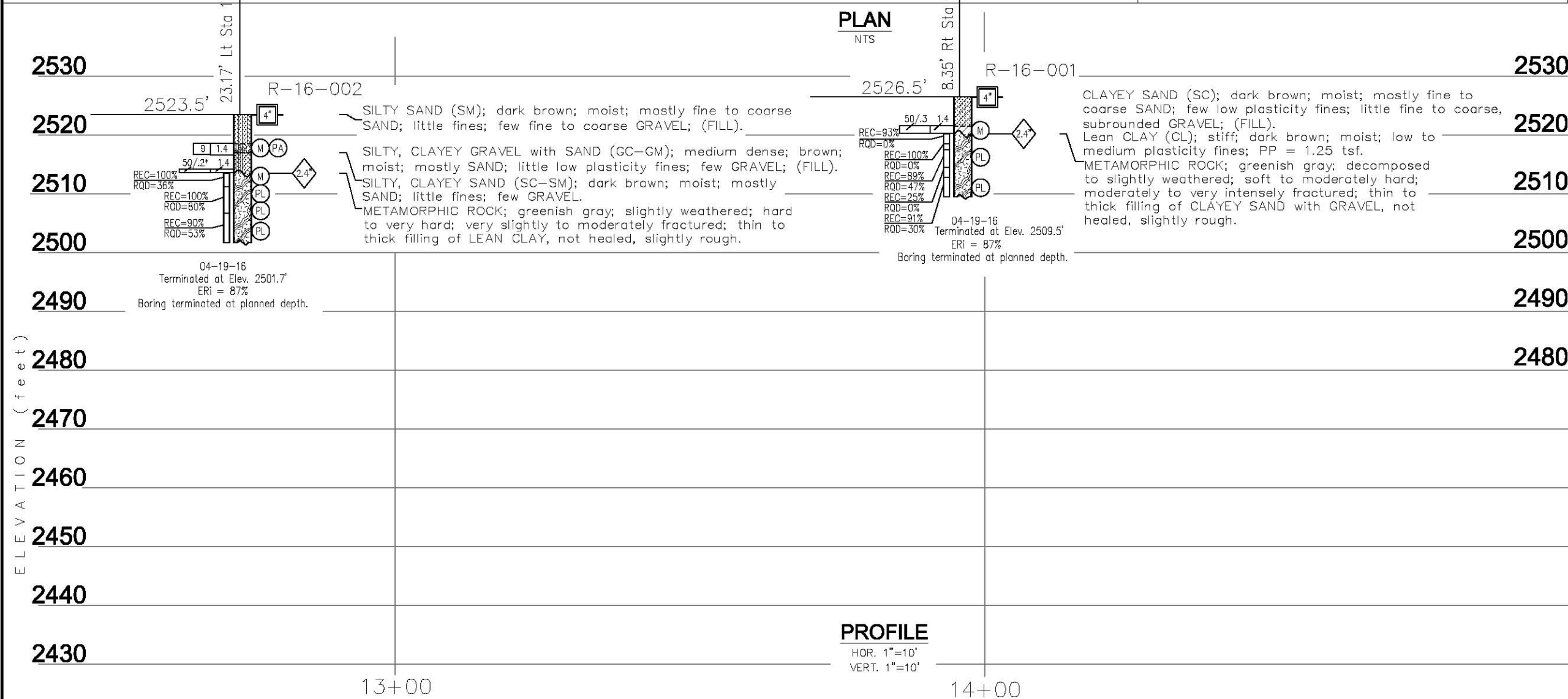
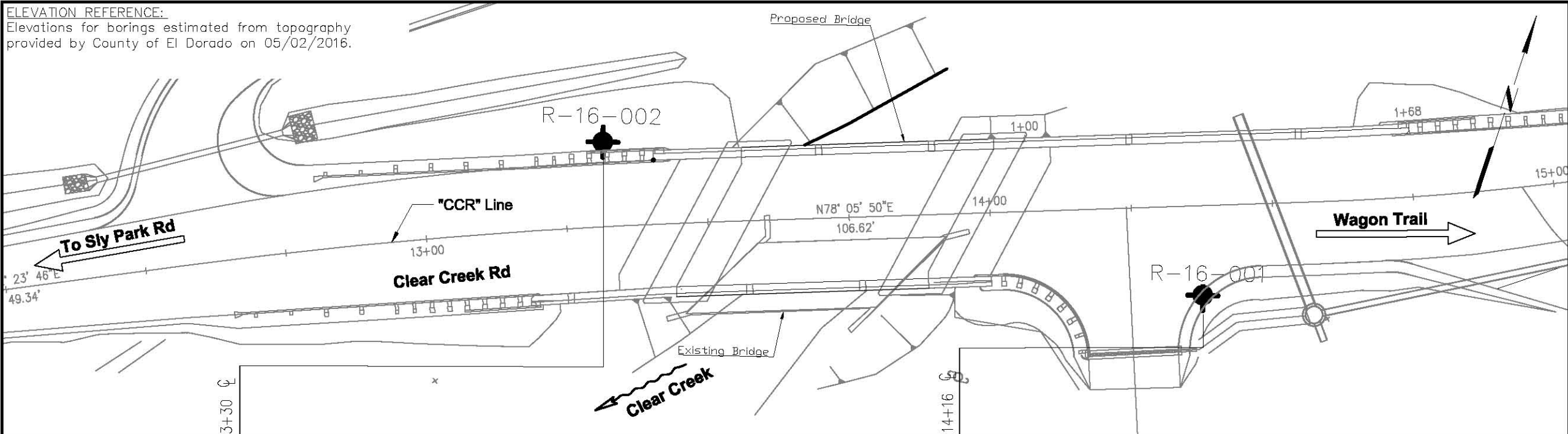
COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 0.25  
 BRIDGE REPLACEMENT

LAYOUT  
 RETAINING WALL No.2  
 SCALE: AS SHOWN

SHEET  
**S-17**  
 38 OF 39  
 W.G. No. 77139

ELEVATION REFERENCE:  
Elevations for borings estimated from topography  
provided by County of El Dorado on 05/02/2016.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	XX		39	39

CERTIFIED ENGINEERING GEOLOGIST DATE \_\_\_\_\_  
 REGISTERED GEOLOGIST  
 DAVID A. KITZMANN  
 No. 2412  
 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.

WRECO  
 8331 SIERRA COLLEGE BLVD.  
 ROSEVILLE, CALIFORNIA 95661 WRECO JOB NO: P15054  
 County of El Dorado  
 Community Development Agency Transportation Division  
 2850 Fairlane Court  
 Placerville, CA 95667

- Notes:
- Field classification of soils was in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).
  - 1.4" samples were taken using a 1.375" split barrel sampler per Standard Penetration Test (SPT) performed in accordance with ASTM D 1586-11.
  - 1.4" samples were taken with an automated hammer system consisting of a hammer weight of 140 lbs. free falling a distance of 30". Autohammer energy ratio (ETR) measurements indicate an ETR=87%. The last 12" of an 18" drive were recovered as the blow count number required to drive the sampler.
  - The length of each sampled interval is shown graphically on the boring log. Whole number blow counts (N) represent the "standard penetration resistance" interval in accordance with ASTM D1586-11. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated. Where indicated by an asterisk (\*) the number of blows shown is for only that fraction of the initial 6" "seating drive" interval penetration. Material characteristics shown in ( ) where estimated.
  - The blow counts shown on the logs are the raw blow counts which have not been corrected for hammer energy, sample size, overburden, or any other correction factor.
  - The apparent density of granular soil is based on a corrected Standard Penetration Test N60 value.
  - Rock classification according to Caltrans Soil and Rock Logging, Classification and Presentation manual (2010 Edition). Descriptions were determined in the field. REC = Core Recovered (percent). RQD = Rock Quality Designation (percent).
  - Groundwater was not encountered above rock line and was not measured below rock line due to residual drill fluid.
  - Boring locations were measuring in the field based on existing site features and correlated to topographic survey provided by County of El Dorado.
  - Electronic media for plan view provided by County of El Dorado.

ELEVATION (feet)

DATE PLOTTED => \$TIME USERNAME => \$USER

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY	XX PROJECT ENGINEER	BRIDGE NO. XXXX-XXXX	CLEAR CREEK ROAD BRIDGE AT CLEAR CREEK (PM 0.25)
FUNCTIONAL SUPERVISOR Name	DRAWN BY: D. Lukashov CHECKED BY: D. Kitzmann	FIELD INVESTIGATION BY: A. Kahn	DATE: 04-19-16			POST MILE XX.XX	
08 CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU XXXXXX EA XXXXXX	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
						SHEET 39	OF 39