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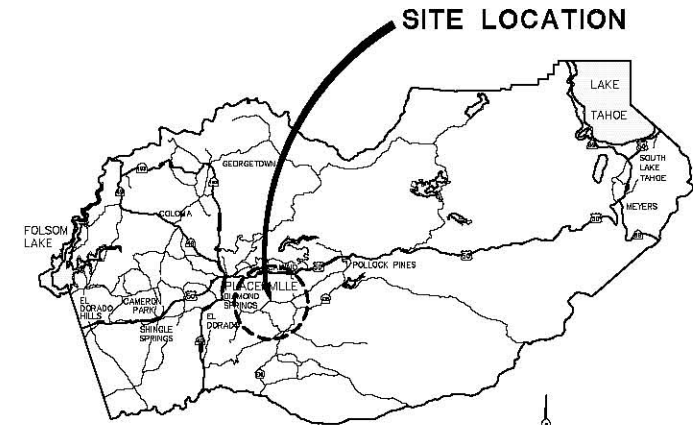
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**COUNTY OF EL DORADO, CA
DEPARTMENT OF TRANSPORTATION**

**PROJECT PLANS FOR THE CONSTRUCTION OF
CLEAR CREEK ROAD
P.M. 1.82 BRIDGE REPLACEMENT**

IN THE COUNTY OF EL DORADO, DISTRICT 2
1.82 MILES FROM THE CLEAR CREEK/SLY PARK ROAD INTERSECTION

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.



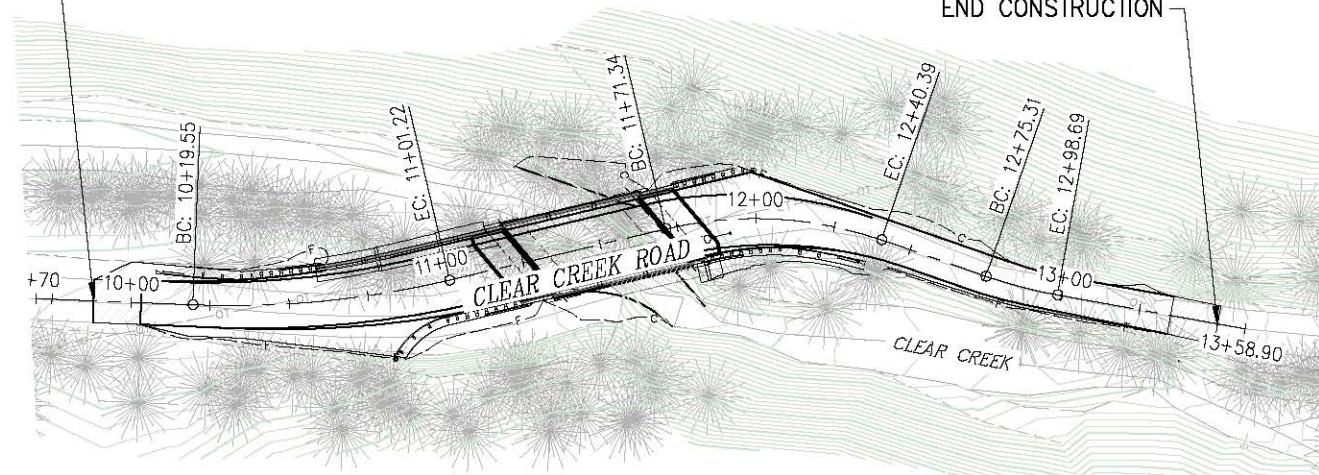
VICINITY MAP
COUNTY OF EL DORADO

STRUCTURE PLANS

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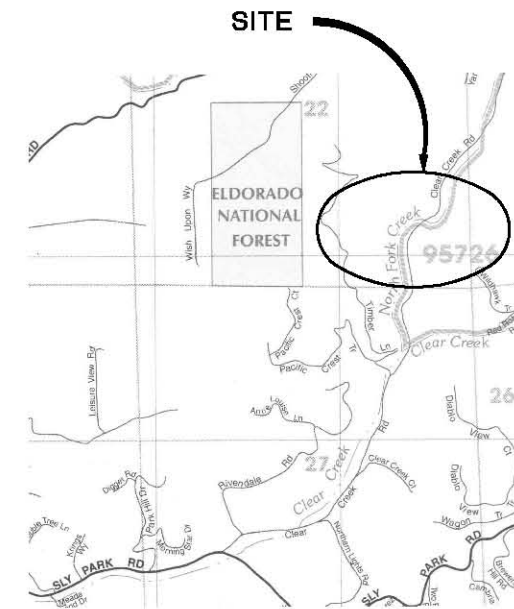
BEGIN CONSTRUCTION

END CONSTRUCTION



SITE PLAN

SCALE: 1"=30'



LOCATION MAP

NOT TO SCALE

FUNDING AGENCY

BOARD OF SUPERVISORS
I JOHN HIDAHL
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. C56822, DEPUTY DIRECTOR, ENGINEERING

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: [Signature]
CIVIL ENGINEER
STATE OF CALIFORNIA NO. _____
DATE _____

CONTRACT No. 4094 CIP NO. 77138

**CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT**

TITLE SHEET
SHEET 1 OF 33

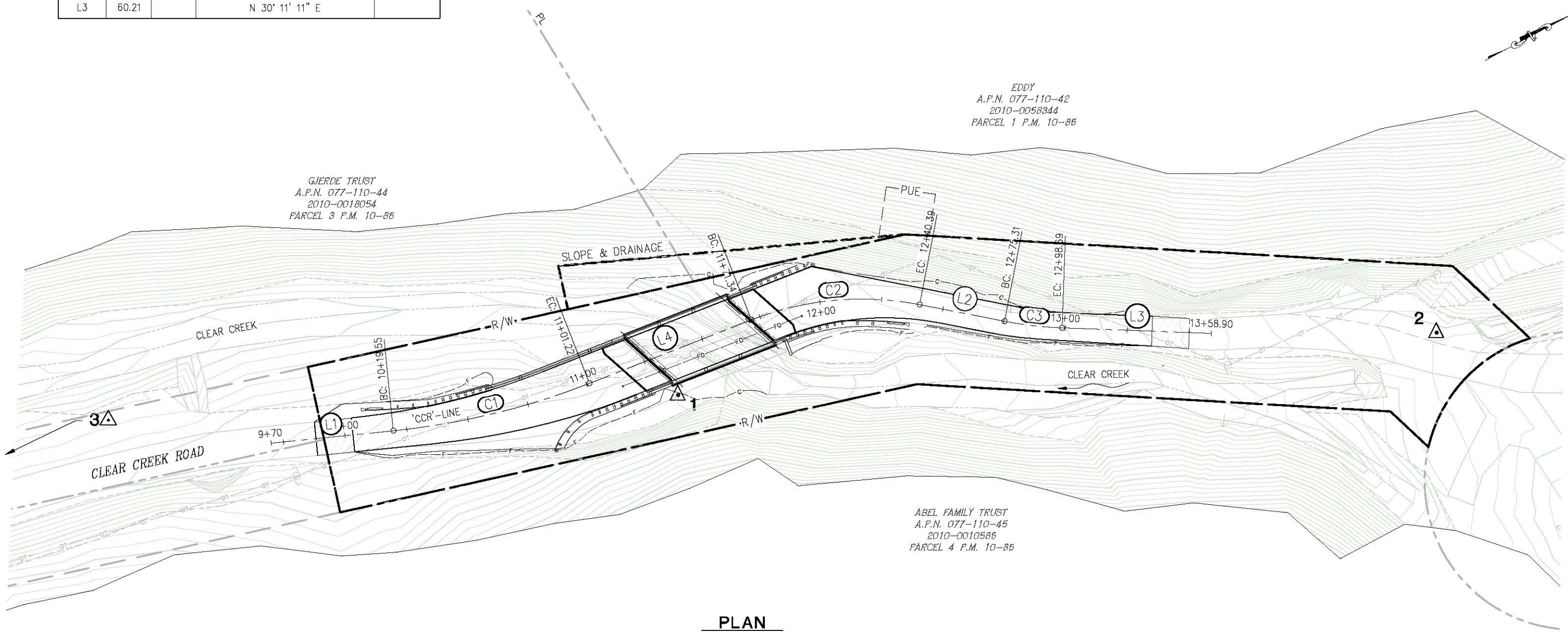
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 FOR REDUCED PLANS

CCR2				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	49.55		N 22° 18' 06" E	
C1	81.67	300.00	N 14° 30' 11" E - 81.42	15' 35" 51"
L4	70.12		N 6° 42' 16" E	
C2	69.05	122.00	N 22° 55' 09" E - 68.13	32' 25" 47"
L2	34.92		N 39° 08' 03" E	
C3	23.37	149.67	N 34° 39' 37" E - 23.35	8' 56" 52"
L3	60.21		N 30° 11' 11" E	

CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2021977.3633	6953306.9981	2724.03	CP MAG
2	2022259.1206	6953428.9046	2736.70	CP MAG
3	2021681.5100	6953198.0790	2718.98	CP
4	2021522.6980	6953172.3953	2713.14	AUX CP

 DENOTES CONTROL POINT LOCATION

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



PLAN
 SCALE: 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Joseph C. Neely
 PROFESSIONAL LAND SURVEYOR
 DATE: _____

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

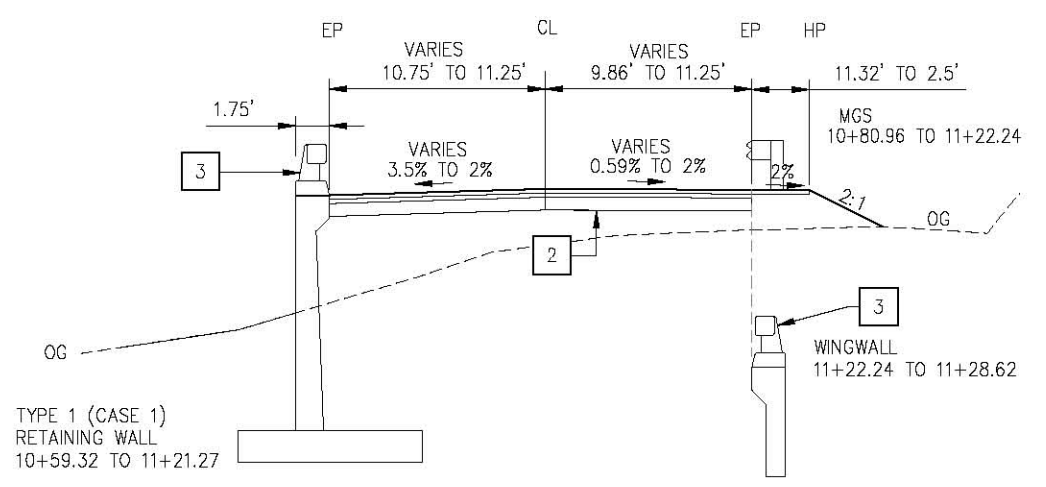


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

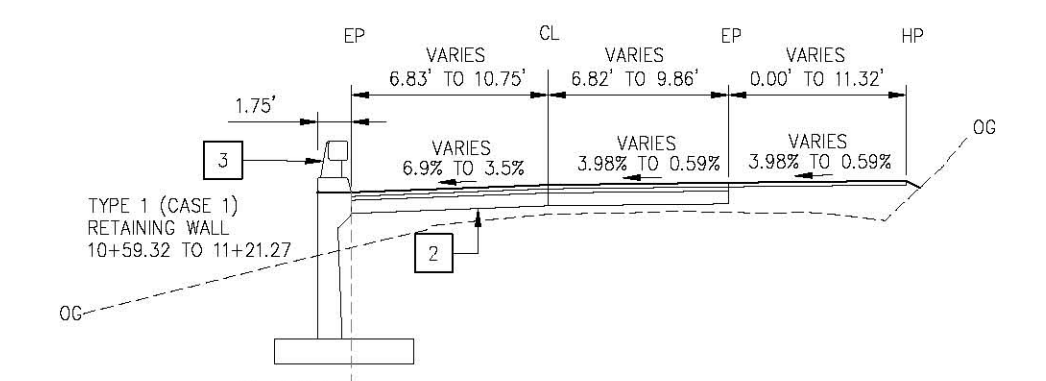
CLEAR CREEK ROAD P.M. 1.82
 BRIDGE REPLACEMENT

SHEET
CD-1
 2 OF 33
 W.O. No. 77138

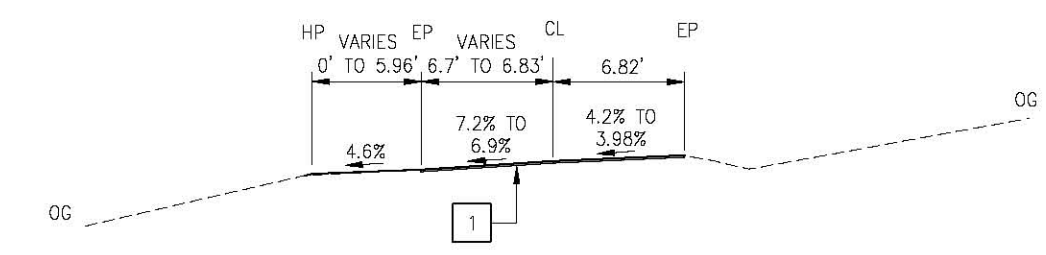
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 FOR REDUCED PLANS



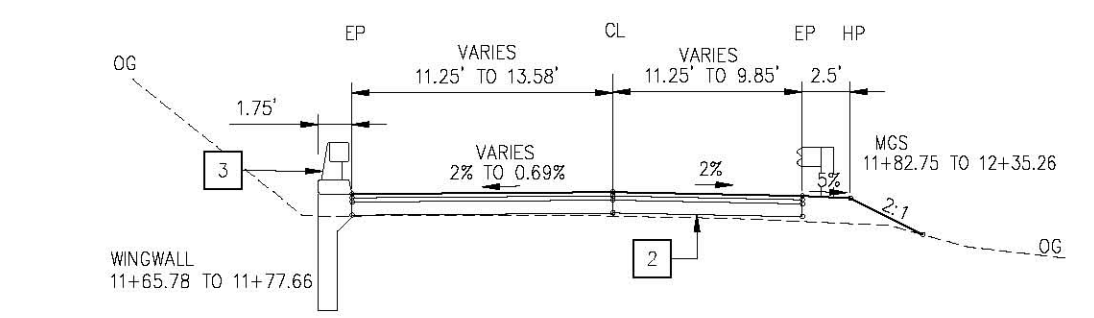
'CCR2' 10+83.49 TO 11+27.00
 SCALE: 1"=5' H,V



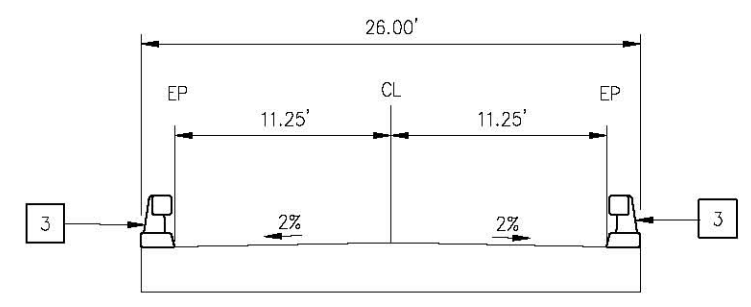
'CCR2' 10+03.2 TO 10+83.49
 SCALE: 1"=5' H,V



'CCR2' 9+88.2 TO 10+03.2
 GRIND AND CONFORM
 SCALE: 1"=5' H,V



'CCR2' 11+71.00 TO 11+94.00
 SCALE: 1"=5' H,V



'CCR2' 11+27.00 BB TO 11+71.00 EB
 SCALE: 1"=5' H,V

CONSTRUCTION NOTES:
 STATION/OFFSET PER 'CCR2' ALIGNMENT
 2:1 CUT/FILL UNLESS NOTED
 SEE SHEET C-1 FOR GRIND AND CONFORM DETAIL

- NOTES:**
- 1 — GRIND AND CONFORM, 0.15' MIN
 - 2 — 0.33' HMA (TYPE A), 0.67' AB (CLASS 2)
 - 3 — CONCRETE BARRIER, TYPE B0 MODIFIED PER B11-60

**TYPICAL SECTIONS
 SCALE : AS NOTED**

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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

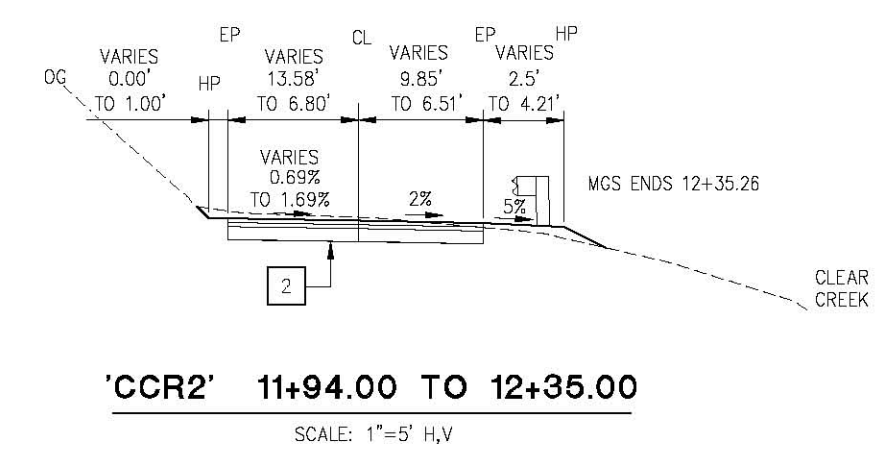
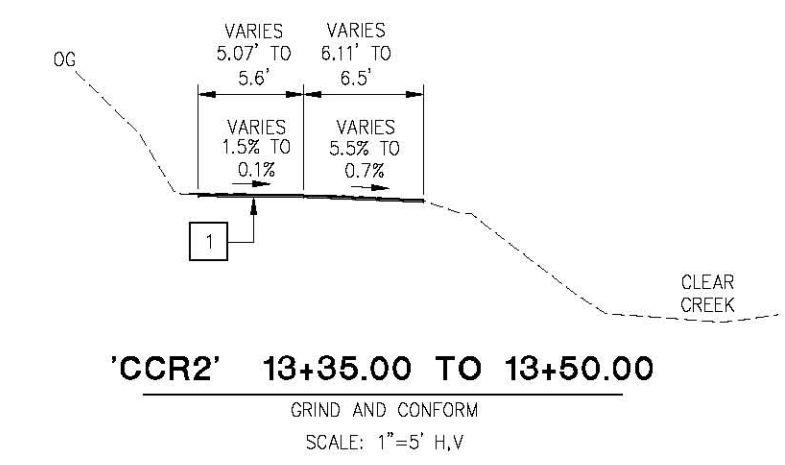
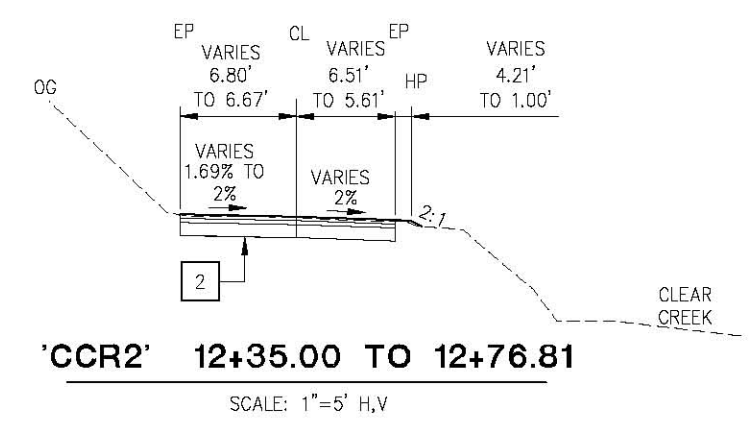
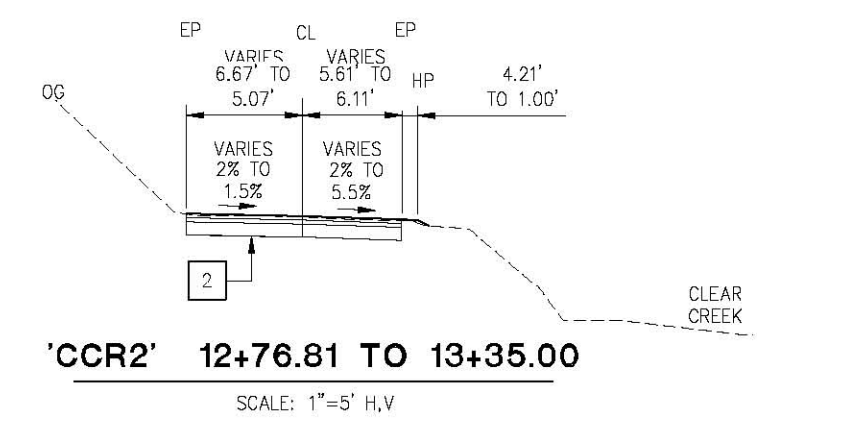


**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK ROAD
 P.M. 1.82 BRIDGE REPLACEMENT**

SHEET
X-1
 3 OF 33
 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\X-2.dwg Layout Tab: X-2 Feb 05, 2020 - 10:48am BRichards



CONSTRUCTION NOTES:
STATION/OFFSET PER 'CCR2' ALIGNMENT
2:1 CUT/FILL UNLESS NOTED
SEE SHEET C-1 FOR GRIND AND CONFORM DETAIL

NOTES:
1 — GRIND AND CONFORM, 0.15' MIN
2 — 0.33' HMA (TYPE A), 0.67' AB (CLASS 2)

**TYPICAL SECTIONS
SCALE : AS NOTED**

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
JONATHAN BALZER
No. C72291
License Expires 06-30-20
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: 081	



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

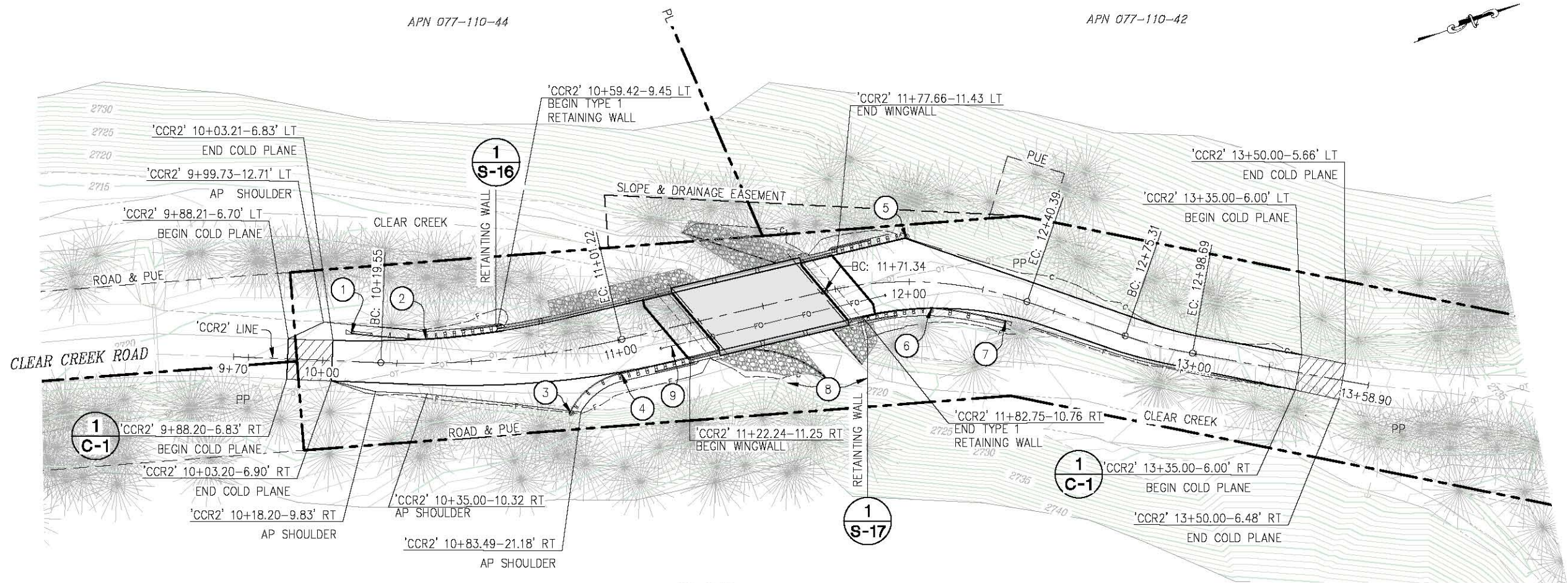
**CLEAR CREEK ROAD
P.M. 1.82 BRIDGE REPLACEMENT**

SHEET
X-2
4 OF 33
W.O. No. **77138**

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 FOR REDUCED PLANS

APN 077-110-44

APN 077-110-42



APN 077-110-45

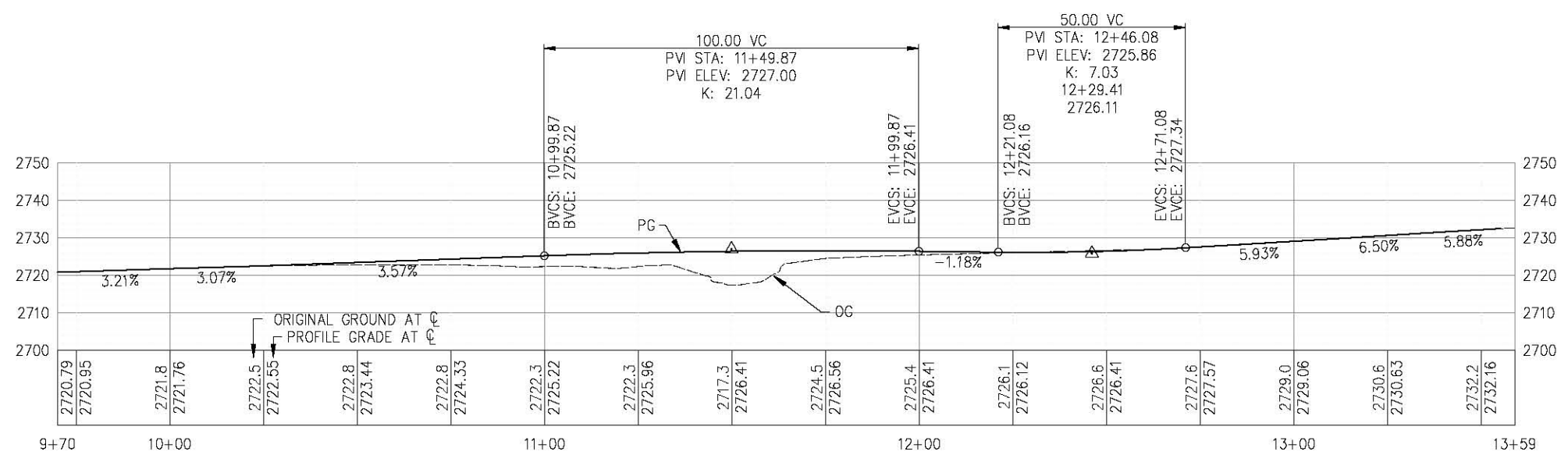
PLAN

SCALE: 1"=20'

LEGEND

- * ALL MGS TO BE INSTALLED USING THE NARROW ROADWAY INSTALLATION METHOD PER A77N3
- 1 — 'CCR2' 10+09.53-9.76' LT, BEGIN MGS IN-LINE TERMINAL SYSTEM, PER TL-2 RATED, 25' LONG.
 - 2 — 'CCR2' 10+34.89-8.25' LT, END MGS TERMINAL SYSTEM. BEGIN TRANSITION RAILING (WB-31) PER A77U4
 - 3 — 'CCR2' 10+80.36-20.86 LT, BEGIN MGS IN-LINE TERMINAL SYSTEM. BURIED POST END ANCHOR PER A77T2.
 - 4 — 'CCR2' 10+98.46-10.99 RT, BEGIN MGS TRANSITION RAILING (WB-31) PER A77U4 ONE ELEMENT SHOP CURVED TO 25' RADIUS
 - 5 — 'CCR2' 11+99.24-14.54 LT, END TRANSITION RAILING (WB-31). BURIED POST END ANCHOR PER A77T2.
 - 6 — 'CCR2' 12+08.30-8.41 RT, END MGS TRANSITION RAILING (WB-31) PER A77U4. BEGIN IN-LINE TERMINAL SYSTEM, PER A77Q1
 - 7 — 'CCR2' 12+35.50-8.25 RT, END IN-LINE TERMINAL SYSTEM.
 - 8 — CONTRACTOR MUST MAINTAIN EMERGENCY ACCESS THROUGH JOBSITE AT ALL TIMES OF ROAD CLOSURE.
 - 9 — 3" SCHEDULE 40 PVC CONDUIT FOR FUTURE USE. SEE U-SHEET.

COLD PLANE AREA
SEE DETAIL, SHEET C-1



PROFILE

SCALE: 1"=20' H,V

CONSTRUCTION NOTES:

1. STATION OFFSET CALLOUTS PER 'CCR2' 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.

LAYOUT-'CCR2' LINE (CLEAR CREEK ROAD)
SCALE : 1" = 20' H,V

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: 081

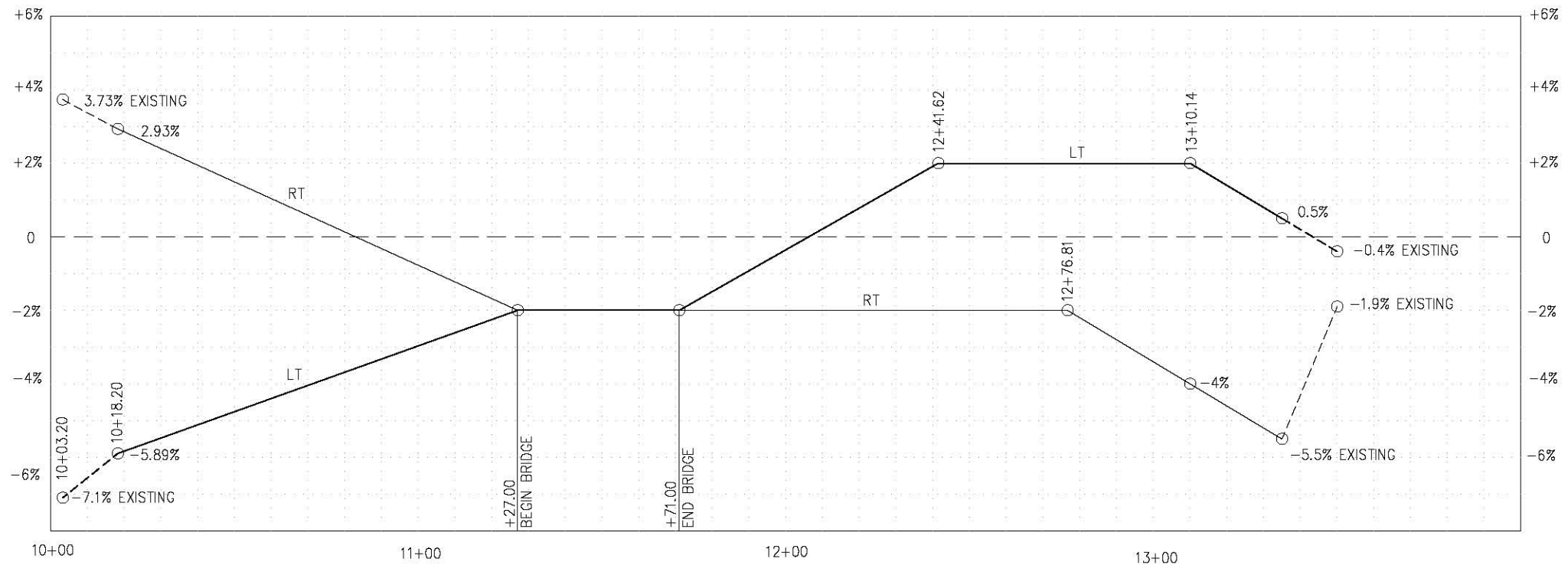


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
L-1
5 OF 33
W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS



'CCR2' SUPERELEVATION

SCALE: 1"=20'

'CCR2' SUPERELEVATION
SCALE : AS NOTED



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

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



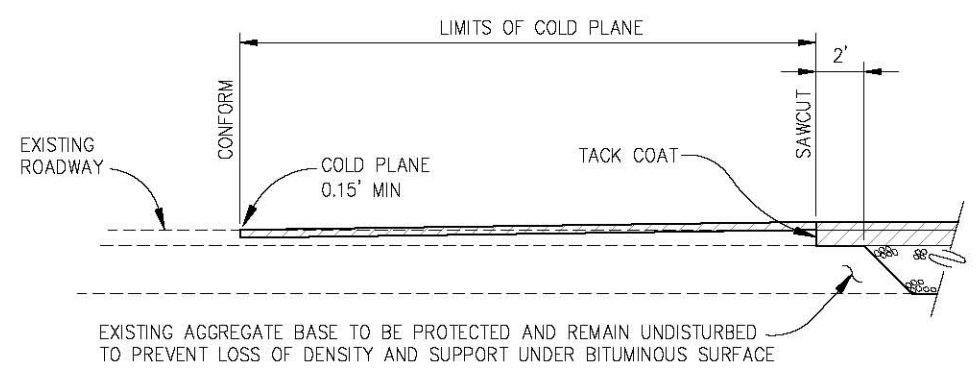
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
L-2
6 OF 33
W.O. No. 77138

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE: 1/8" = 1'-0" INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\C-1.dwg Layout Tab: C-1 Feb 05, 2020 - 10:56am BRichards



1
COLD PLANE CONFORM DETAIL
 SCALE: N.T.S.

FOR REDUCED PLANS
 0 1 2

CONSTRUCTION DETAILS
 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

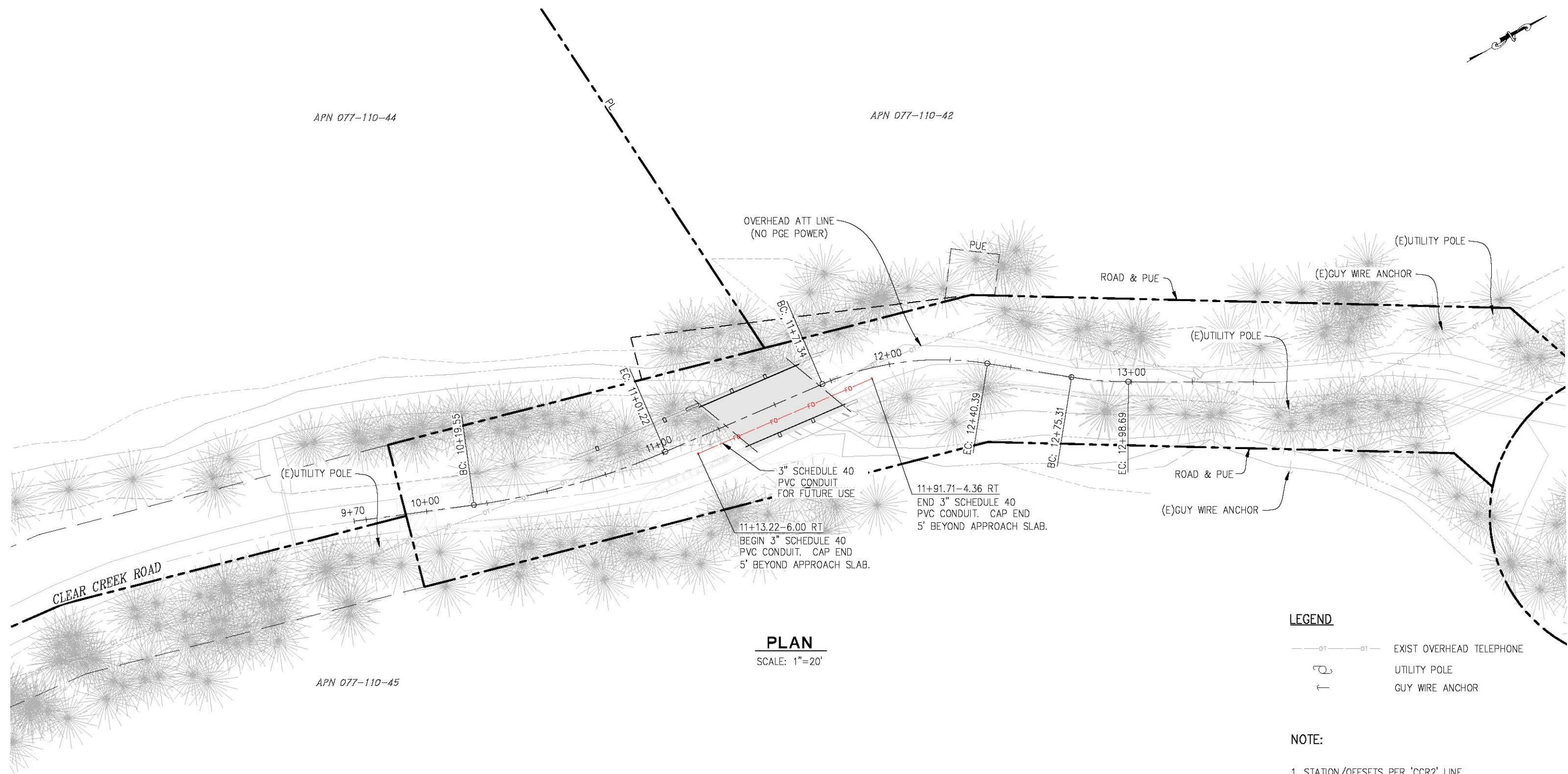


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
C-1
 7 OF 33
 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
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 Layout Tab: U-1
 Feb 05, 2020 - 10:57am BRichards



PLAN
SCALE: 1"=20'

LEGEND

- EXIST OVERHEAD TELEPHONE
- UTILITY POLE
- GUY WIRE ANCHOR

NOTE:

1. STATION/OFFSETS PER 'CCR2' LINE.
2. CONTRACTOR SHALL TAKE NECESSARY STEPS TO PROTECT OVERHEAD TELEPHONE LINE DURING CONSTRUCTION.
3. INSTALL 3" SCHEDULE 40 PVC THROUGH BRIDGE DURING CONSTRUCTION. USE RUBBER COMPRESSION COUPLINGS AT STRUCTURE JOINTS. SEE S-10 SHEET.

UTILITY PLAN
SCALE : AS NOTED

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

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

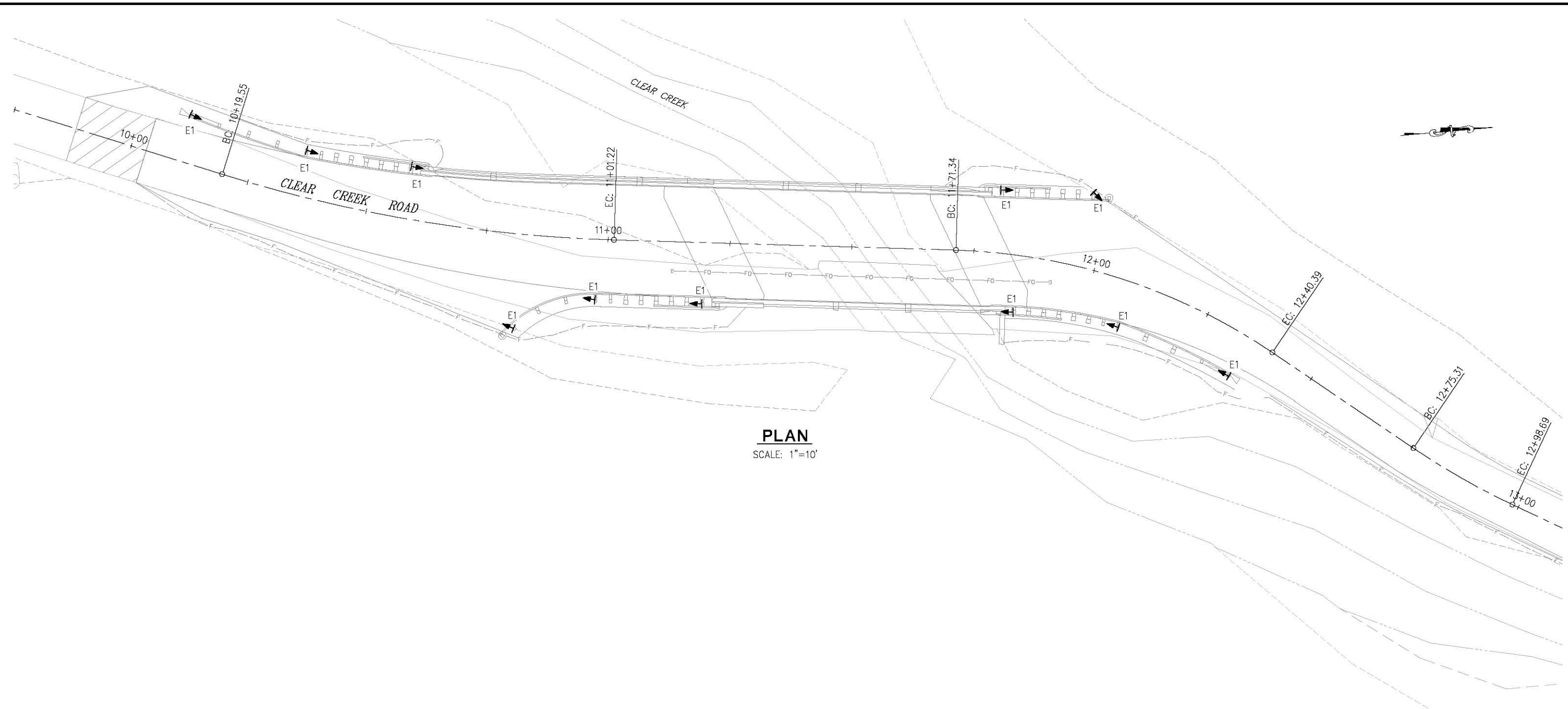


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
U-1
8 OF 33
W.C. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\SPD-1.dwg
 Layout Tab: SPD-1 Feb 05, 2020 - 10:58am BRichards



PLAN
SCALE: 1"=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. E1 DELINEATORS SHALL BE FASTENED TO MGS POSTS PER A77N4 (TOTAL-11)

LEGEND

- ▶ - PROPOSED MARKER/DELINEATOR
- E1 = DELINEATOR FASTENED TO MGS POSTS PER A77N4 (TOTAL-11)

MARKERS AND DELINEATION
SCALE : AS NOTED

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: JB	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 2/5/20
DATE:	ROAD NUMBER: 81	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

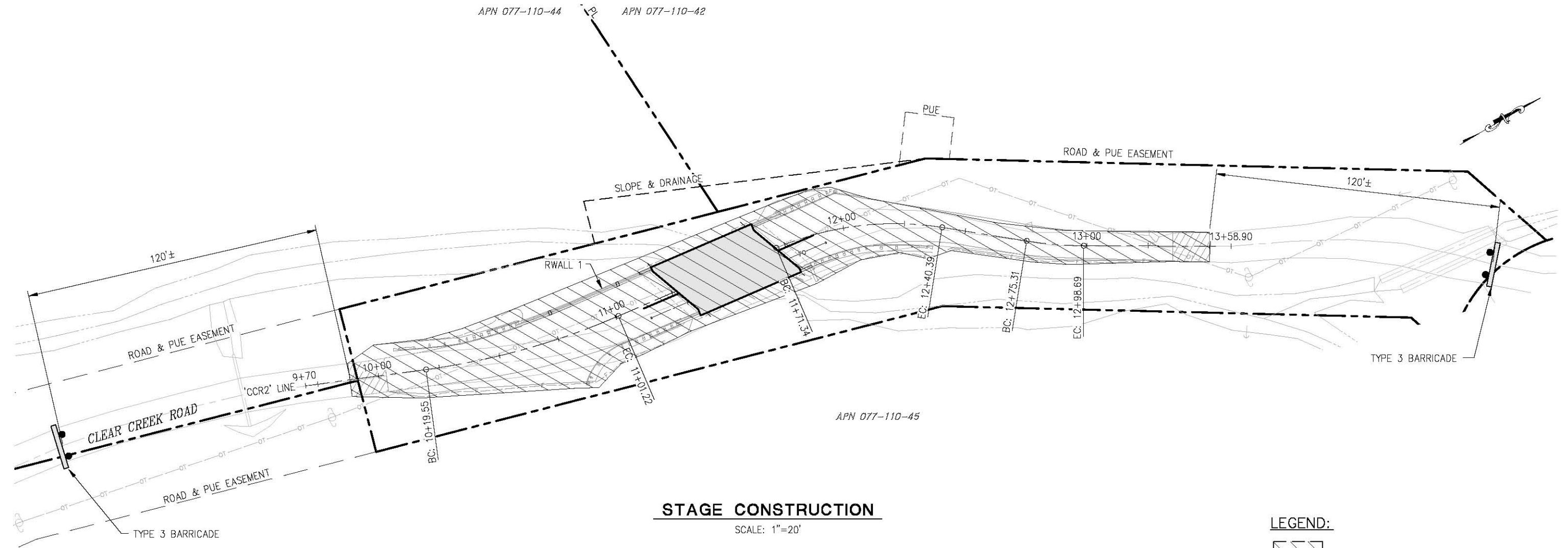
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET	9 OF 33
W.D. No.	77138

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 FOR REDUCED PLANS

GENERAL STAGE CONSTRUCTION NOTES:

1. CONTRACTOR MUST MAINTAIN EMERGENCY ACCESS THROUGH JOBSITE AT ALL TIMES OF ROAD CLOSURE.
2. ADDITIONAL INFORMATION ON ROAD CLOSURE AND DETOURS ON SHEET SC-2
3. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. SUBMIT TRAFFIC CONTROL OR ROAD CLOSURE & DETOUR 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.
5. SUBMIT WATER DIVERSION PLAN PER ENGINEERS APPROVED SHOP PLANS.



STAGE CONSTRUCTION

SCALE: 1"=20'

LEGEND:

- STAGE CONSTRUCTION
- BRIDGE
- TYPE 3 BARRICADE

STAGE CONSTRUCTION
 SCALE : AS NOTED



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

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



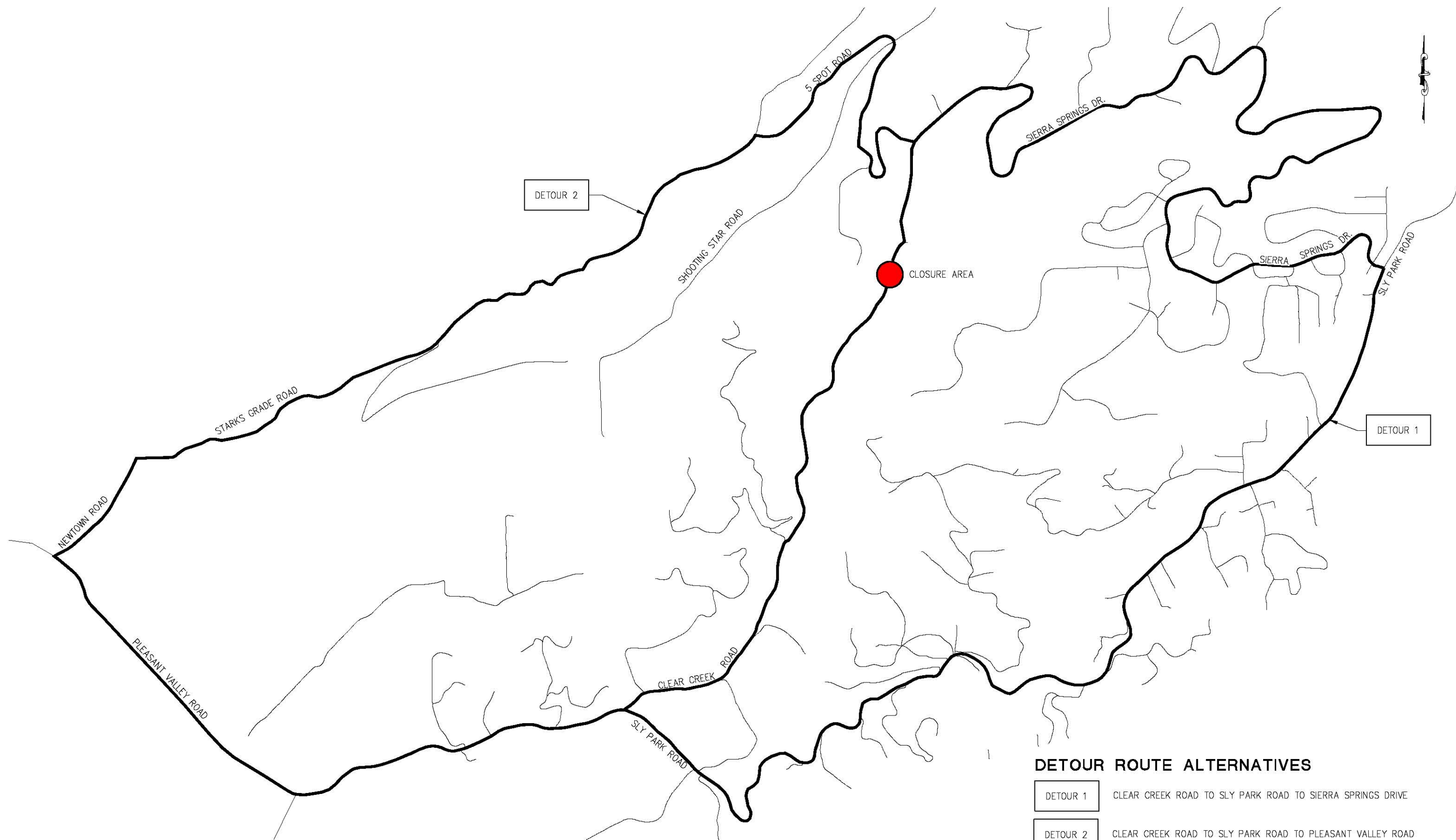
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
SC-1
 10 OF 33
 W.O. No. **77138**

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\SC-2.dwg Layout Tab: SC-2 Feb 05,2020 - 11:05am BRichards



DETOUR MAP
N.T.S.

DETOUR ROUTE ALTERNATIVES

- | |
|----------|
| DETOUR 1 |
|----------|

 CLEAR CREEK ROAD TO SLY PARK ROAD TO SIERRA SPRINGS DRIVE

- | |
|----------|
| DETOUR 2 |
|----------|

 CLEAR CREEK ROAD TO SLY PARK ROAD TO PLEASANT VALLEY ROAD TO NEWTOWN ROAD TO STARKS GRADE ROAD TO 5 SPOT ROAD TO SIERRA SPRINGS DRIVE

DETOUR MAP
STAGE CONSTRUCTION
 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. 1.82
BRIDGE REPLACEMENT

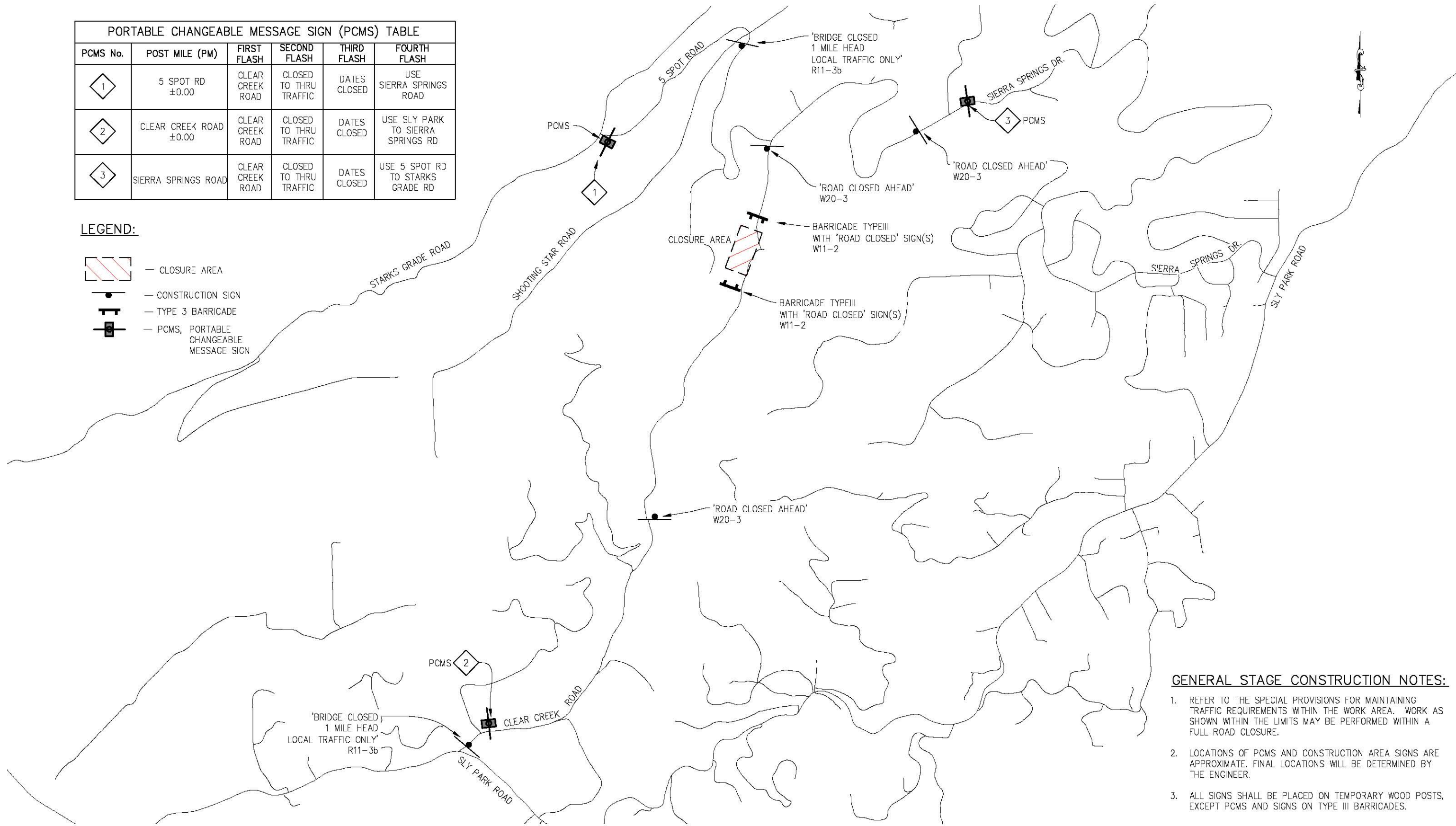
SHEET
SC-2
 11 OF 33
 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TABLE					
PCMS No.	POST MILE (PM)	FIRST FLASH	SECOND FLASH	THIRD FLASH	FOURTH FLASH
1	5 SPOT RD ±0.00	CLEAR CREEK ROAD	CLOSED TO THRU TRAFFIC	DATES CLOSED	USE SIERRA SPRINGS ROAD
2	CLEAR CREEK ROAD ±0.00	CLEAR CREEK ROAD	CLOSED TO THRU TRAFFIC	DATES CLOSED	USE SLY PARK TO SIERRA SPRINGS RD
3	SIERRA SPRINGS ROAD	CLEAR CREEK ROAD	CLOSED TO THRU TRAFFIC	DATES CLOSED	USE 5 SPOT RD TO STARKS GRADE RD

LEGEND:

-  CLOSURE AREA
-  CONSTRUCTION SIGN
-  TYPE 3 BARRICADE
-  PCMS, PORTABLE CHANGEABLE MESSAGE SIGN



PLAN
N.T.S.

GENERAL STAGE CONSTRUCTION NOTES:

1. REFER TO THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC REQUIREMENTS WITHIN THE WORK AREA. WORK AS SHOWN WITHIN THE LIMITS MAY BE PERFORMED WITHIN A FULL ROAD CLOSURE.
2. LOCATIONS OF PCMS AND CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. ALL SIGNS SHALL BE PLACED ON TEMPORARY WOOD POSTS, EXCEPT PCMS AND SIGNS ON TYPE III BARRICADES.

CONSTRUCTION SIGNS
SCALE : NONE



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

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



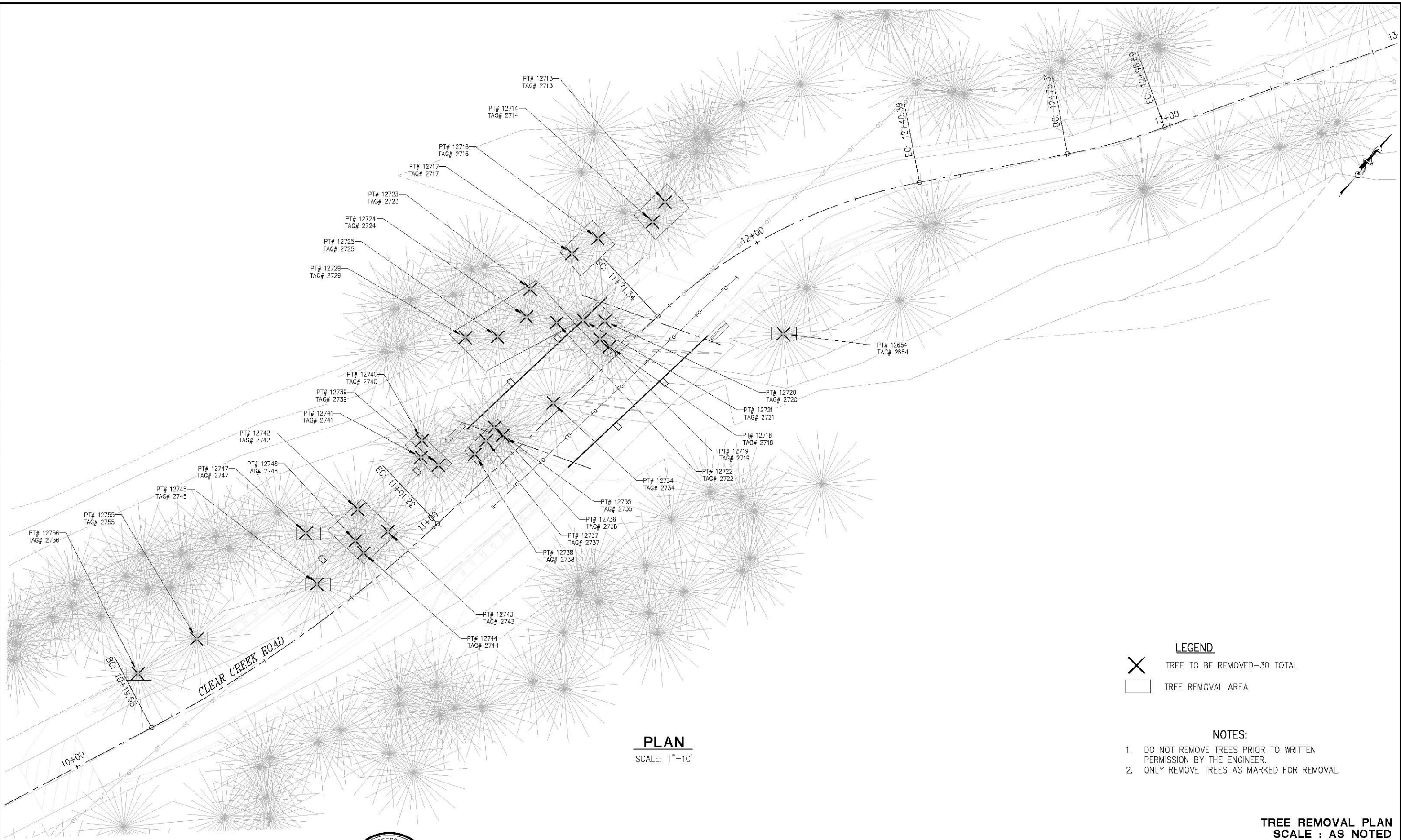
COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
SC-3
 12 OF 33
 W.O. No. 77138

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\TR-1.dwg Layout Tab: TR-1 Feb 05, 2020 - 11:08am BRichards



PLAN
SCALE: 1"=10'

- LEGEND**
- TREE TO BE REMOVED-30 TOTAL
 - 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: JB
DRAWN: RR
CHECKED: JB
DATE: 2/5/20
ROAD NUMBER: 81



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
TR-1
13 OF 33
W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\TR-2.dwg
 Layout Tab: TR-2 Feb 05, 2020 - 11:09am BRichards

TREE REMOVAL TABLE (TR-1)

POINT NUMBER	TAG NUMBER	'CCR' LINE STATION	OFFSET	DESCRIPTION & DIA.
12654	2654	11+93.70	21.25'	FIR-0.41ø
12713	2713	11+88.12	19.44'	FIR-0.35ø
12714	2714	11+83.71	17.45'	ORNAMENTAL-0.67ø
12716	2716	11+73.26	22.64'	FIR-0.41ø
12717	2717	11+66.81	24.18'	FIR-0.35ø
12718	2718	11+58.42	2.53'	ORNAMENTAL-1.21ø,0.64 FORKED
12719	2719	11+57.93	5.31'	FIR-0.45ø
12720	2720	11+61.61	7.60'	FIR-0.32ø
12721	2721	11+58.11	11.16'	FIR-0.35ø
12722	2722	11+53.25	15.00'	FIR-0.38ø
12723	2723	11+54.18	24.82'	FIR-0.32ø
12724	2724	11+49.07	20.76'	FIR-0.38ø
12725	2725	11+41.05	21.97'	ORNAMENTAL-0.83ø
12729	2729	11+35.51	26.96'	ORNAMENTAL-0.70ø
12734	2734	11+39.88	1.95'	ORNAMENTAL-0.99ø
12735	2735	11+26.34	4.57'	CEDAR-0.51ø
12736	2736	11+26.10	7.22'	CEDAR-0.35ø
12737	2737	11+22.58	6.31'	CEDAR-0.45ø
12738	2738	11+18.51	5.78'	CEDAR-0.35ø
12739	2739	11+10.69	9.73'	ORNAMENTAL-0.76ø,0.67ø,0.67ø CLUSTER (3)
12740	2740	11+11.81	16.54'	FIR-0.54ø
12741	2741	11+08.99	13.84'	ORNAMENTAL-0.89ø
12742	2742	10+89.46	14.86'	ORNAMENTAL-1.18ø
12743	2743	10+91.35	6.45'	ORNAMENTAL-0.51ø,0.73ø,0.70ø CLUSTER (3)
12744	2744	10+83.72	6.32'	ORNAMENTAL-0.57ø
12745	2745	10+70.47	7.45'	OAK-1.05ø,0.57ø FORKED
12746	2746	10+84.07	9.71'	CEDAR-0.54ø
12747	2747	10+70.47	18.36'	ORNAMENTAL-1.08ø
12755	2755	10+39.21	12.73'	ORNAMENTAL-0.95ø
12756	2756	10+22.73	12.58'	CEDAR-2.99ø

TREE REMOVAL PLAN
SCALE : NONE



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE:

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



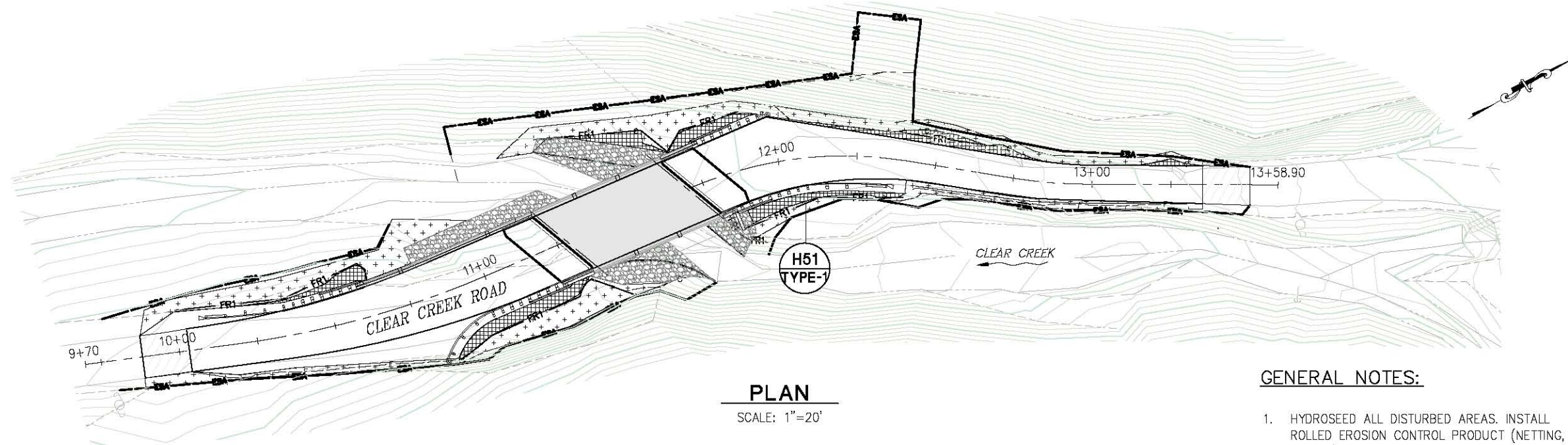
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
TR-2
 14 OF 33
 W.O. No. **77138**

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS



PLAN
SCALE: 1"=20'

GENERAL NOTES:

- 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.
- SEE SHEET S-12 FOR ROCK SLOPE PROTECTION.

LEGEND:

- HYDROSEED — 2,273± S.F.
- HYDROSEED & ROLLED EROSION CONTROL PRODUCT (NETTING, TYPE B) — 703± S.F.
- FIBER ROLLS, PER STD DETAIL H51 (TYPE 1 INSTALLATION) — 289± LF
- TEMPORARY HIGH VISIBILITY FENCING — 775± LF

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

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: J.B. RR
 DRAWN: RR
 CHECKED: J.B. 2/5/20
 DATE: 2/5/20
 ROAD NUMBER: 81

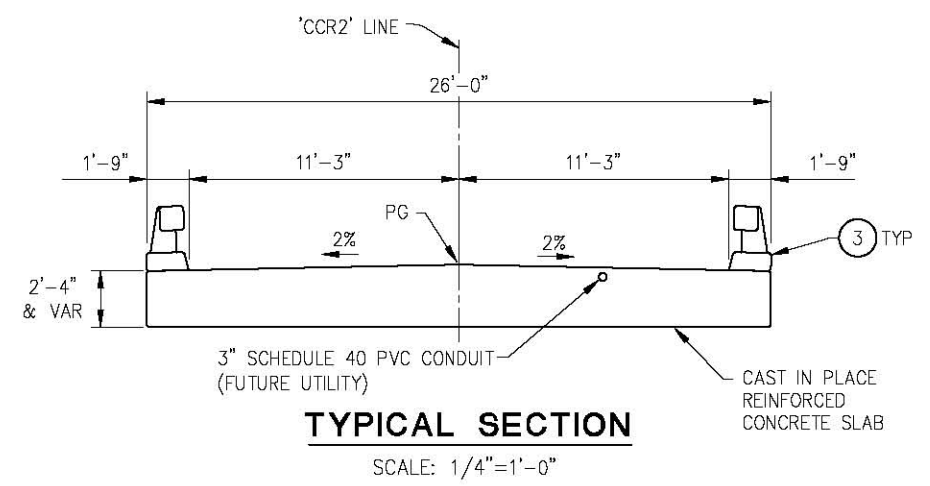
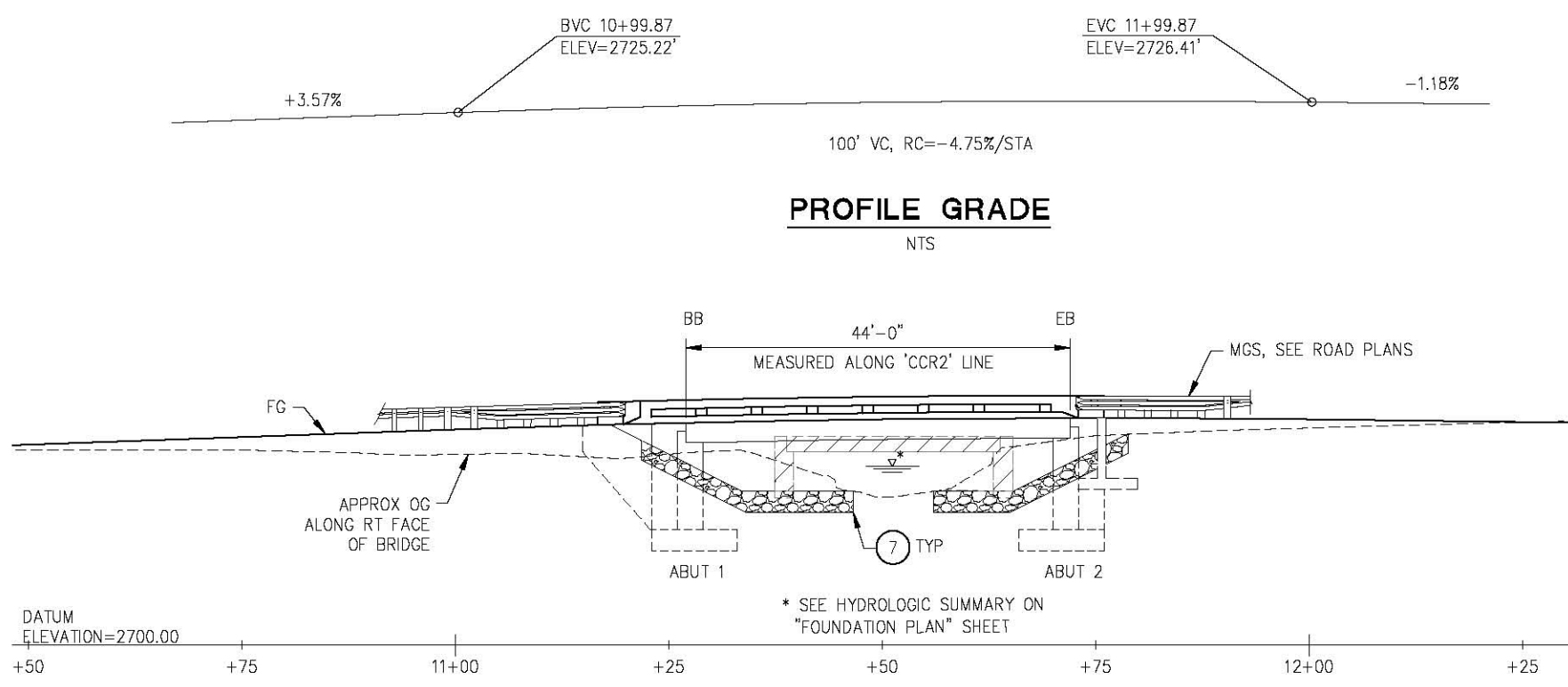


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

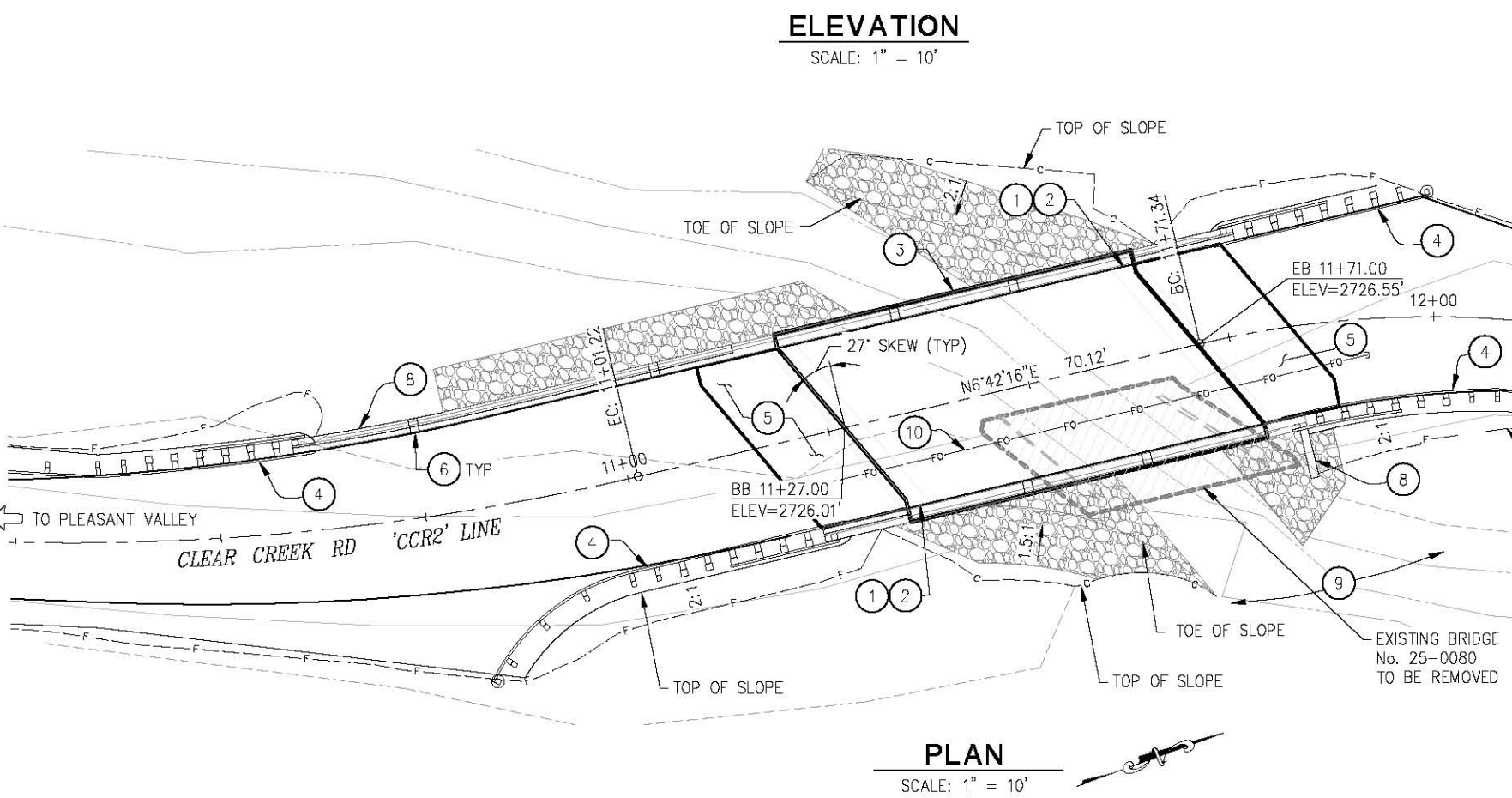
SHEET
EC-1
15 OF 33
W.C. No. **77138**

ORIGINAL SCALE: 1/8" = 10' IN INCHES
 FOR REDUCED PLANS
 Drawing Name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-1.dwg
 Layout Tab: S-1 Feb 05, 2020 - 11:12am BRichards



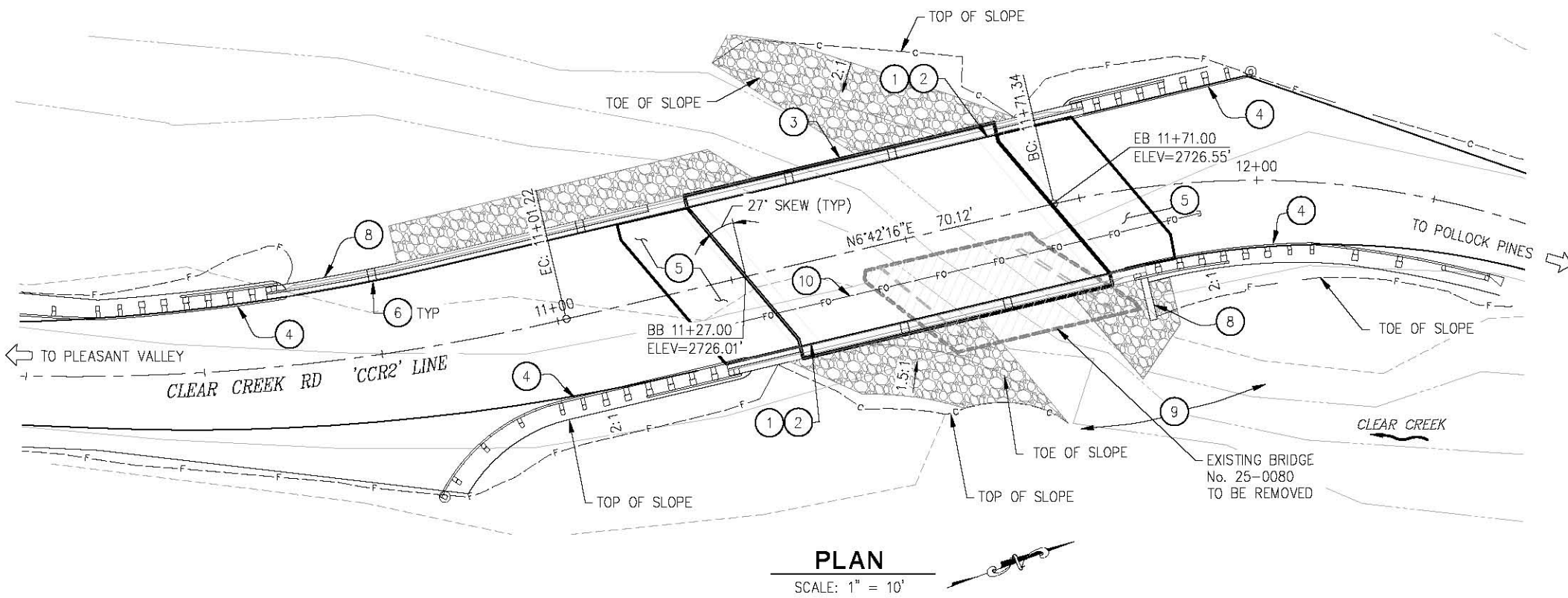
QUANTITIES:

BRIDGE REMOVAL	1 LS
STRUCTURE EXCAVATION (BRIDGE)	357 CY
STRUCTURE BACKFILL (BRIDGE)	182 CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	59 CY
STRUCTURAL CONCRETE, BRIDGE	85 CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	106 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	19 CY
JOINT SEAL (MR 1/2")	58 LF
BAR REINFORCING STEEL (BRIDGE)	27,900 LB
BAR REINFORCING STEEL, EPOXY COATED (BRIDGE)	6,100 LB
CONCRETE BARRIER (TYPE 80 MODIFIED)	178 LF



- GENERAL NOTES:**
- CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.
 - FOR 'CCR2' LINE ALIGNMENT DATA SEE "CD" AND "L" SHEETS.

- CONSTRUCTION NOTES:**
- PAINT "CLEAR CREEK BRIDGE" ON BOTTOM RAIL
 - PAINT "BR. NO. 25-0135" ON BOTTOM RAIL
 - CONCRETE BARRIER (MODIFIED TYPE 80)
 - MIDWEST GUARDRAIL SYSTEM, SEE "ROAD PLANS"
 - STRUCTURE APPROACH SLAB, TYPE EQ(10)
 - SCUPPER: 10+75, 11+06, 11+36, 11+50 LT 11+47, 11+61 RT SEE STD PLAN B7-8
 - RSP, SEE "ROCK SLOPE PROTECTION" SHEET
 - RETAINING WALL TYPE 1
 - MAINTAIN EMERGENCY ACCESS THROUGH JOBSITE AT ALL TIMES OF ROAD CLOSURE
 - 3" SCHEDULE 40 PVC CONDUIT. SEE U-SHEET.



LEGEND

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



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE:

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

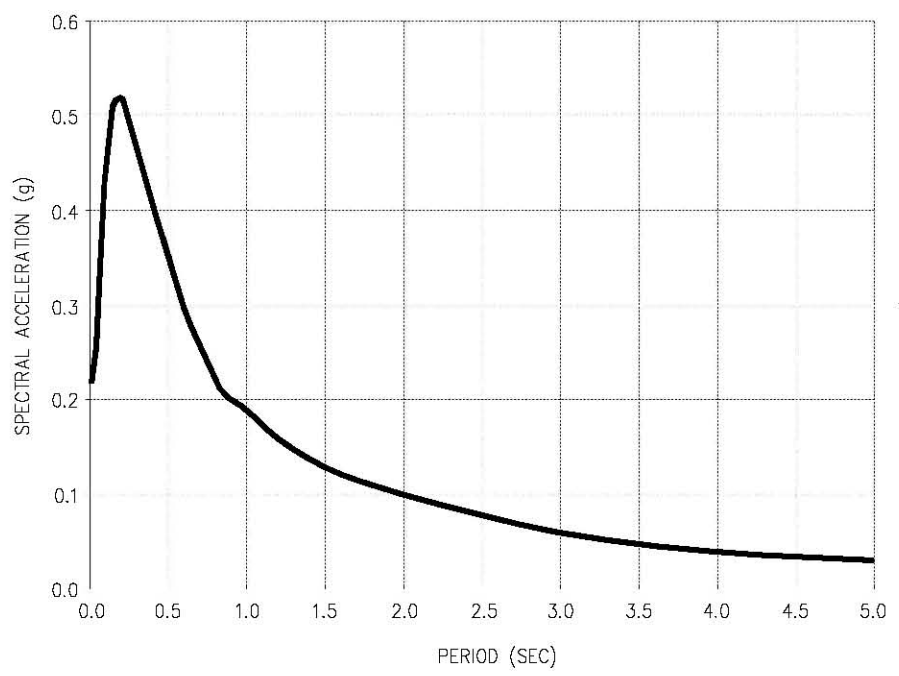


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

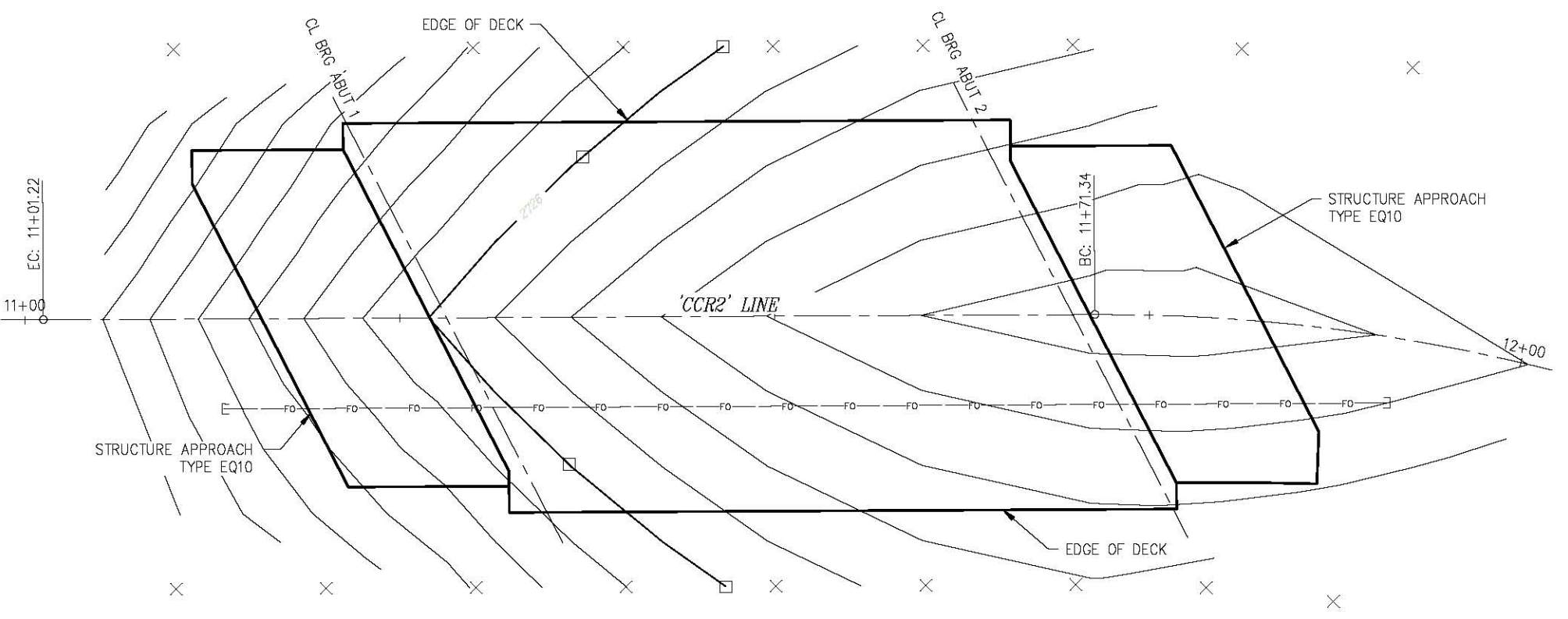
CLEAR CREEK ROAD P.M. 1.82
 BRIDGE REPLACEMENT

SHEET
S-1
 16 OF 33
 W.O. No. 77138

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-2.dwg Layout Tab: S-2 Feb 05, 2020 - 11:13am BRichards



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 = 424 M/S (APPROXIMATELY 1391 FT/S)
MAGNITUDE = 7.0
PEAK HORIZONTAL GROUND ACCELERATION = 0.22G

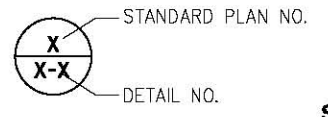
REINFORCED CONCRETE:
fy = 60 KSI
fc = 3.6 KSI, UNLESS OTHERWISE NOTED.
n = 8

CALTRANS STANDARD PLANS DATED 2015:

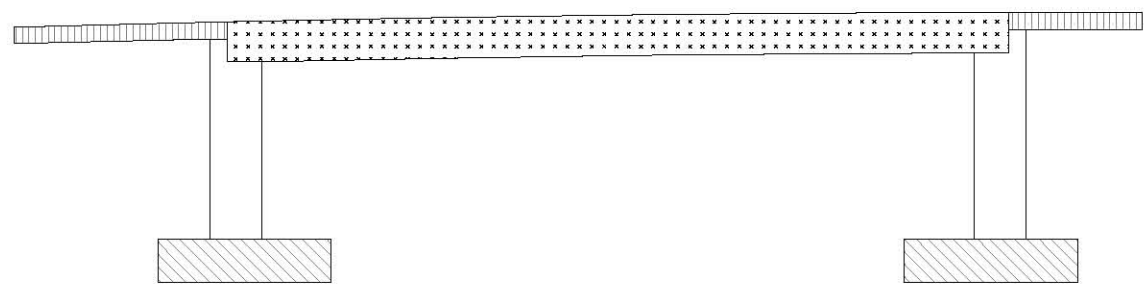
- A3A ABBREVIATIONS (SHEET 1 OF 3)
- A3B ABBREVIATIONS (SHEET 2 OF 3)
- A3C ABBREVIATIONS (SHEET 3 OF 3)
- A10A LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
- RSP A10B LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
- A10C LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
- A10D LEGEND - LINES AND SYMBOLS (SHEET 4 OF 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
- RSP B3-1A RETAINING WALL TYPE 1 (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 80

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**



- XXXX - STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) (fc=3.6 KSI @ 28 DAYS)
- - STRUCTURAL CONCRETE, BRIDGE (fc=3.6 KSI @ 28 DAYS)
- ▨ - STRUCTURAL CONCRETE, BRIDGE FOOTING (fc=3.6 KSI @ 28 DAYS)
- ▤ - STRUCTURAL CONCRETE, STRUCTURE APPROACH (fc=3.6 KSI @ 28 DAYS)

CONCRETE STRENGTH AND TYPE LIMITS
NTS

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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

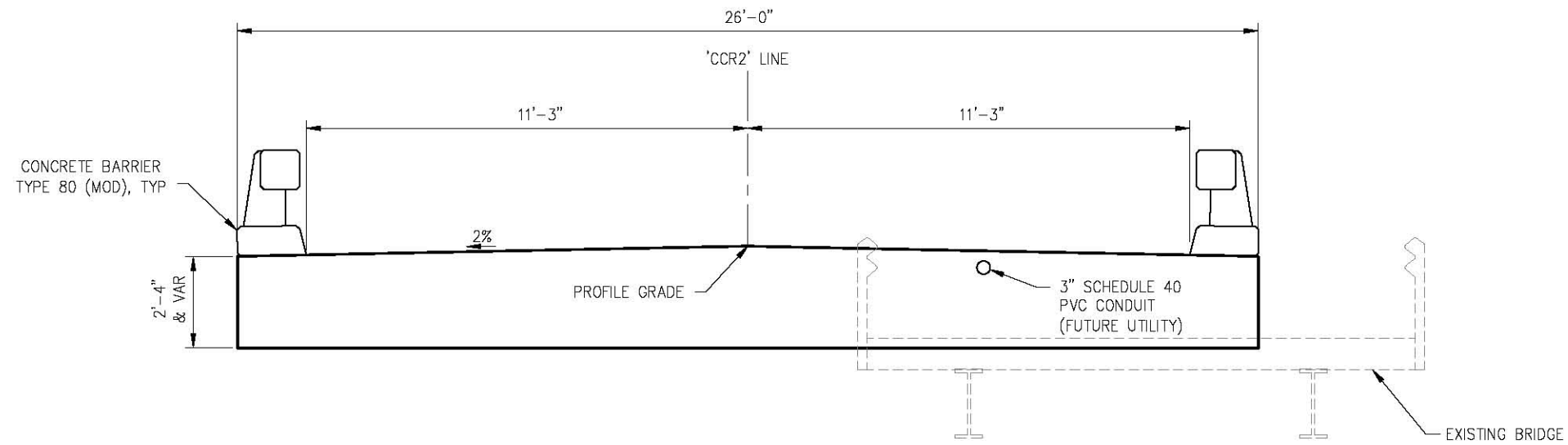


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**CLEAR CREEK BRIDGE P.M. 1.82
BRIDGE REPLACEMENT**

SHEET
S-2
17 OF 33
W.O. No. 77138

ORIGINAL SCALE: 1/8" = 1'-0" INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-3.dwg Layout Tab: S-3 Feb 05, 2020 - 11:15am BRichards



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

NOTES:

1. REMOVE EXISTING BRIDGE, AND ABUTMENTS.
2. CONTRACTOR MUST MAINTAIN EMERGENCY ACCESS THROUGH JOBSITE AT ALL TIMES OF ROAD CLOSURE.

STAGE CONSTRUCTION
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE:

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

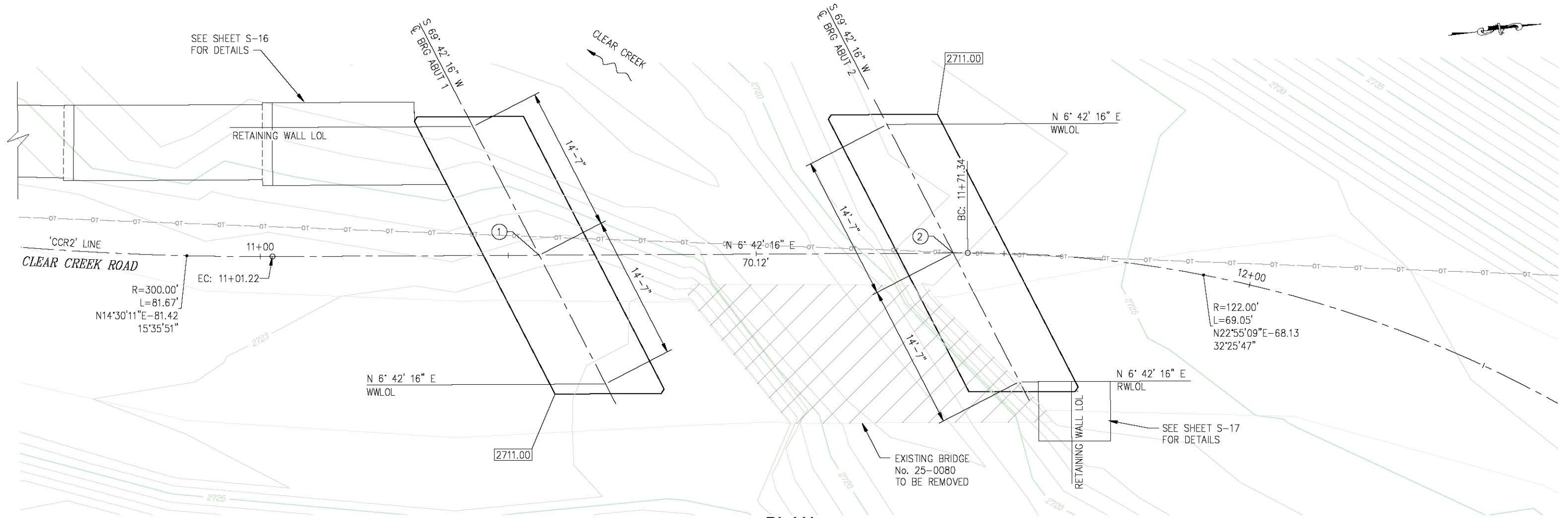


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
S-3
 18 OF 33
 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing Name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-4.dwg Layout Tab: S-4 Feb 05, 2020 - 11:17am BRichards
 FOR REDUCED PLANS



PLAN
 SCALE: 1" = 5'

①	☉ BRG ABUT 1 'CCR2' 11+28.12	N 2021974.767 E 6953289.168
②	☉ BRG ABUT 2 'CCR2' 11+69.88	N 2022016.237 E 6953294.043

HYDROLOGIC SUMMARY		
DRAINAGE AREA = 3.76 SQ. MI.		
	DESIGN FLOOD	BASE FLOOD
FREQUENCY (YEARS)	50	100
DISCHARGE (CFS)	827	1011
WATER SURFACE ELEVATION (FT)*	2721.42	2722.00

* 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	N/A	1.62
ABUT 2	N/A	3.23

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	40	N/A
ABUT 2	155	40	N/A

LEGEND

- BOTTOM OF FOOTING ELEVATION
- DIRECTION OF WATER FLOW
- INDICATES BRIDGE REMOVAL

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

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.

FOUNDATION PLAN
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE:

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

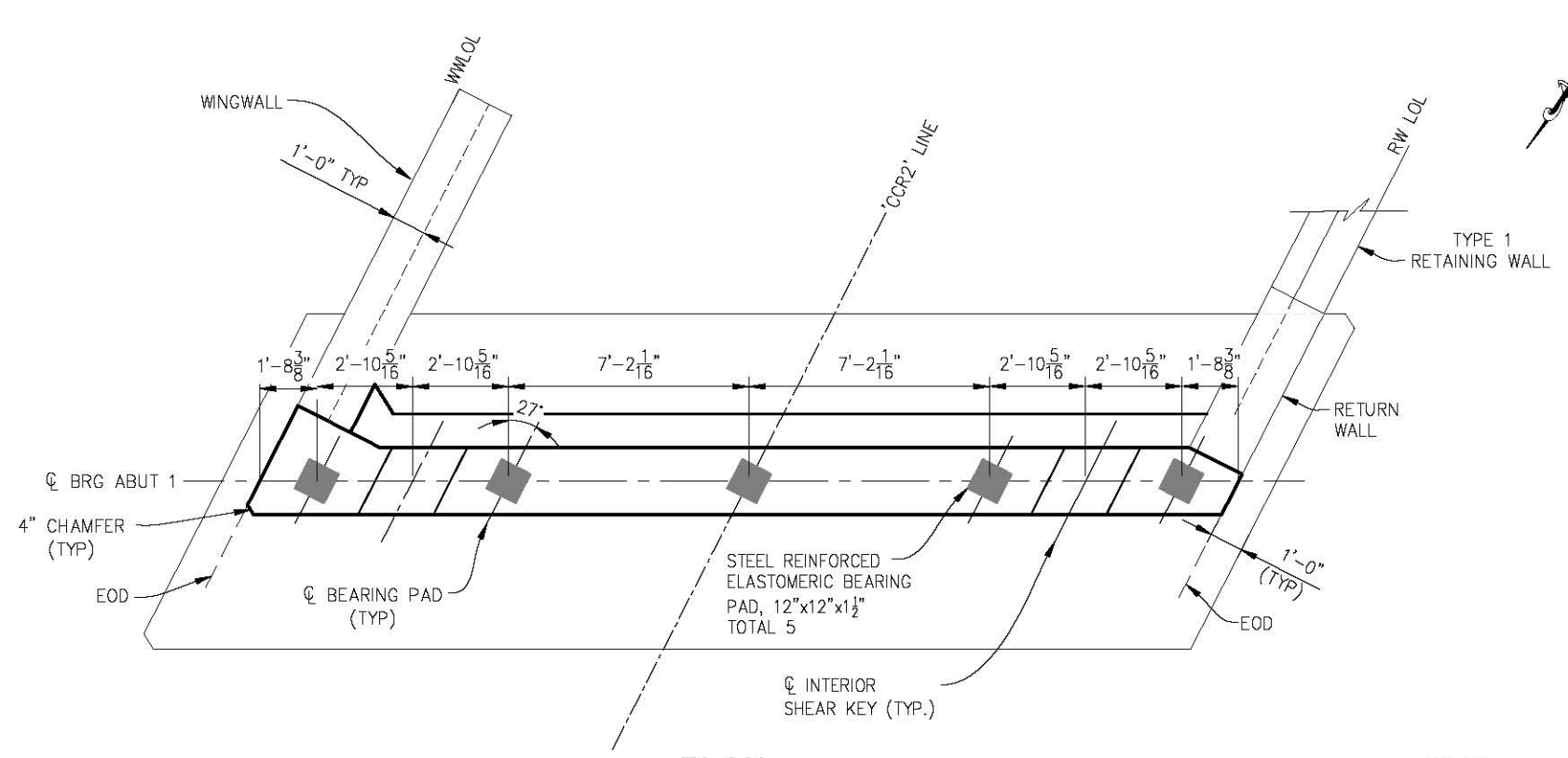


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

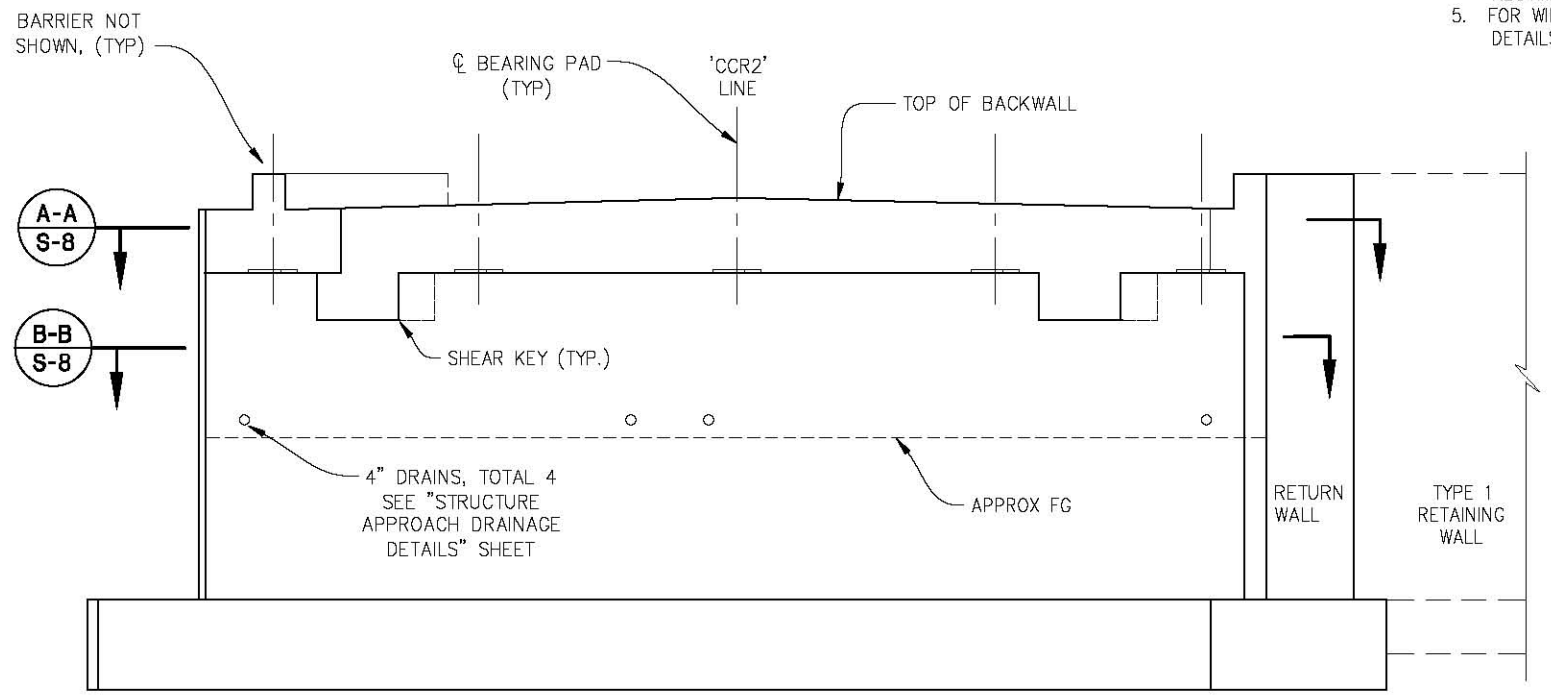
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
S-4
 19 OF 33
 W.O. No. 77138

ORIGINAL SCALE IS IN INCHES
 Drawing Name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-5.dwg Layout Tab: S-5 Feb 05, 2020 - 11:18am BRichards
 FOR REDUCED PLANS



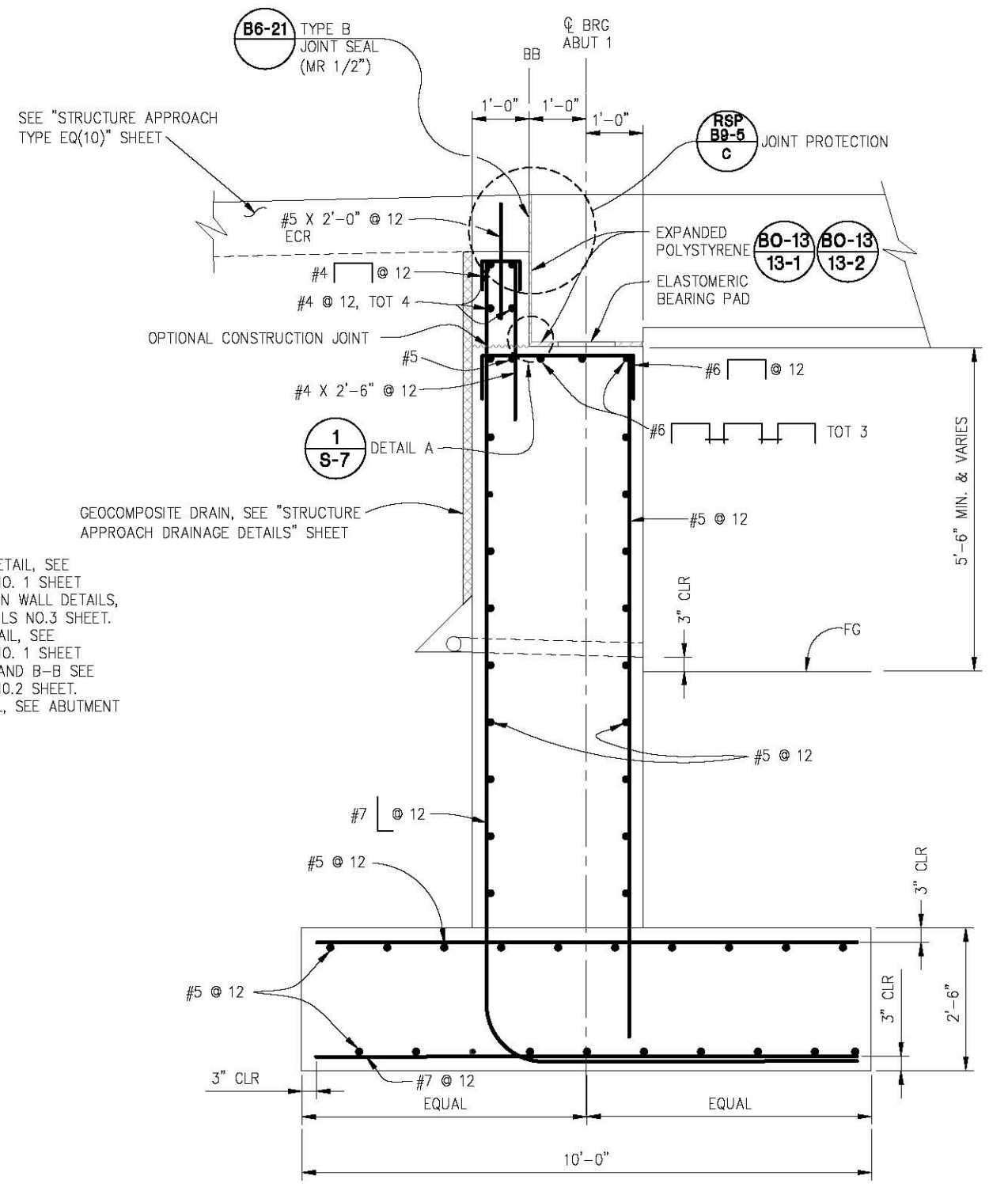
PLAN
3/8" = 1'-0"



ELEVATION
3/8" = 1'-0"

NOTES:

1. FOR BEARING PAD DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET
2. FOR EXTERIOR RETURN WALL DETAILS, SEE ABUTMENT DETAILS NO.3 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 WINGWALL DETAIL, SEE ABUTMENT DETAILS NO.1 SHEET.



TYPICAL SECTION
 ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR
 3/4" = 1'-0"

ABUTMENT NO.1 LAYOUT
SCALE : AS NOTED



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

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

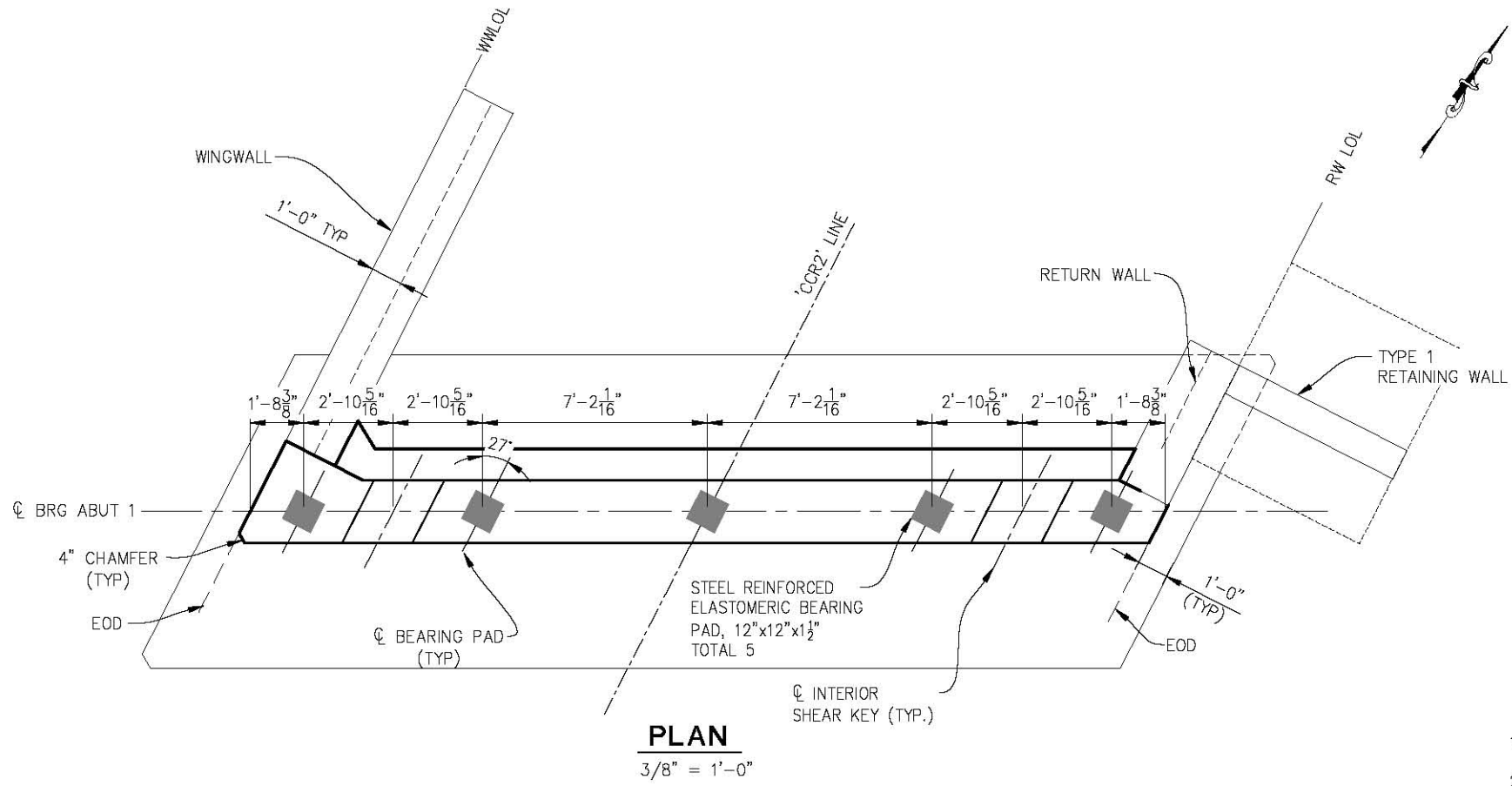


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

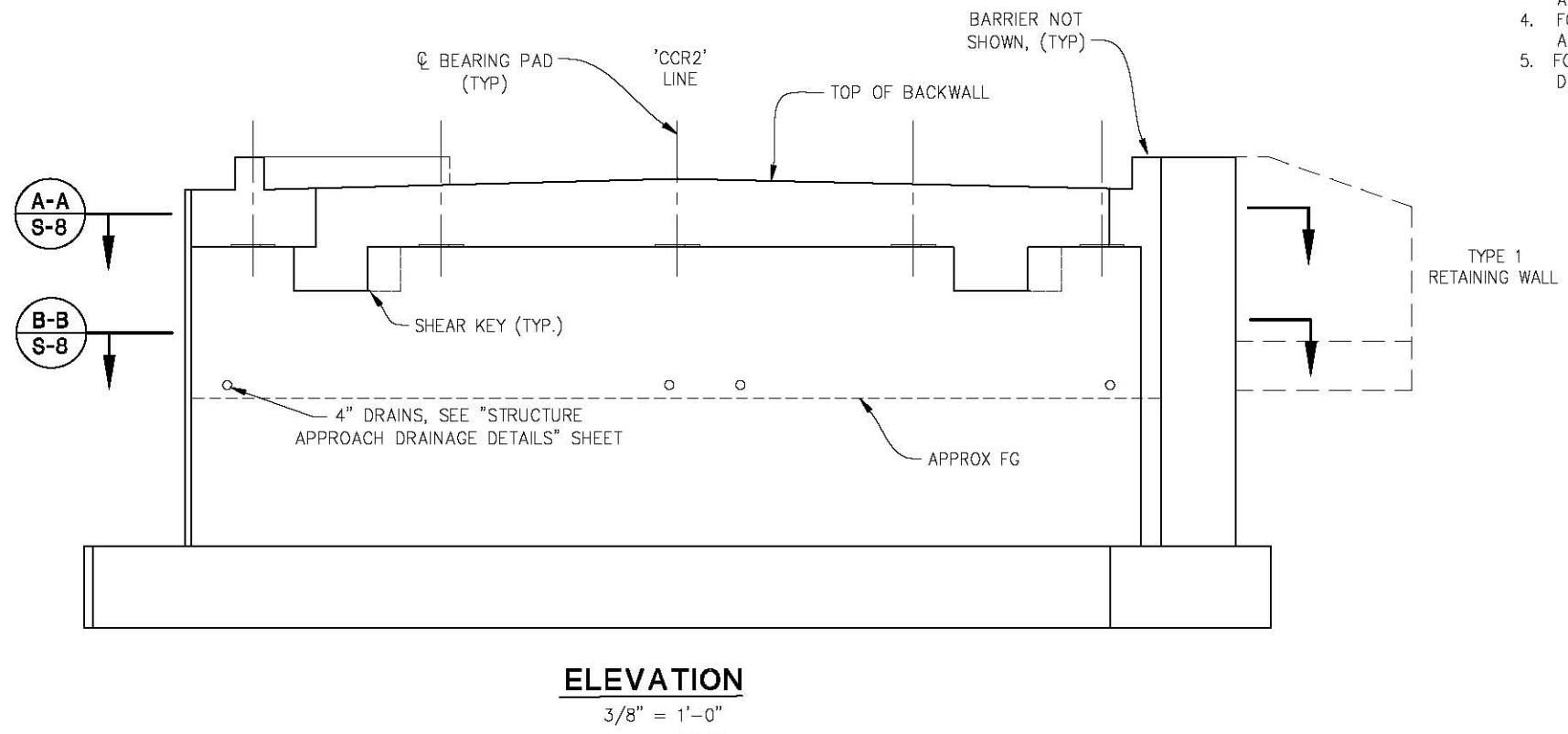
CLEAR CREEK ROAD P.M. 1.82
 BRIDGE REPLACEMENT

SHEET
S-5
 20 OF 33
 W.O. No. 77138

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-6.dwg
 Layout Tab: S-6 Feb 05, 2020 - 11:19am BRichards
 FOR REDUCED PLANS



- NOTES:**
1. FOR BEARING PAD DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET
 2. FOR EXTERIOR RETURN WALL DETAILS, SEE ABUTMENT DETAILS NO. 3 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 WINGWALL DETAIL, SEE ABUTMENT DETAILS NO. 1 SHEET.



ABUTMENT NO. 2 LAYOUT
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE:

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

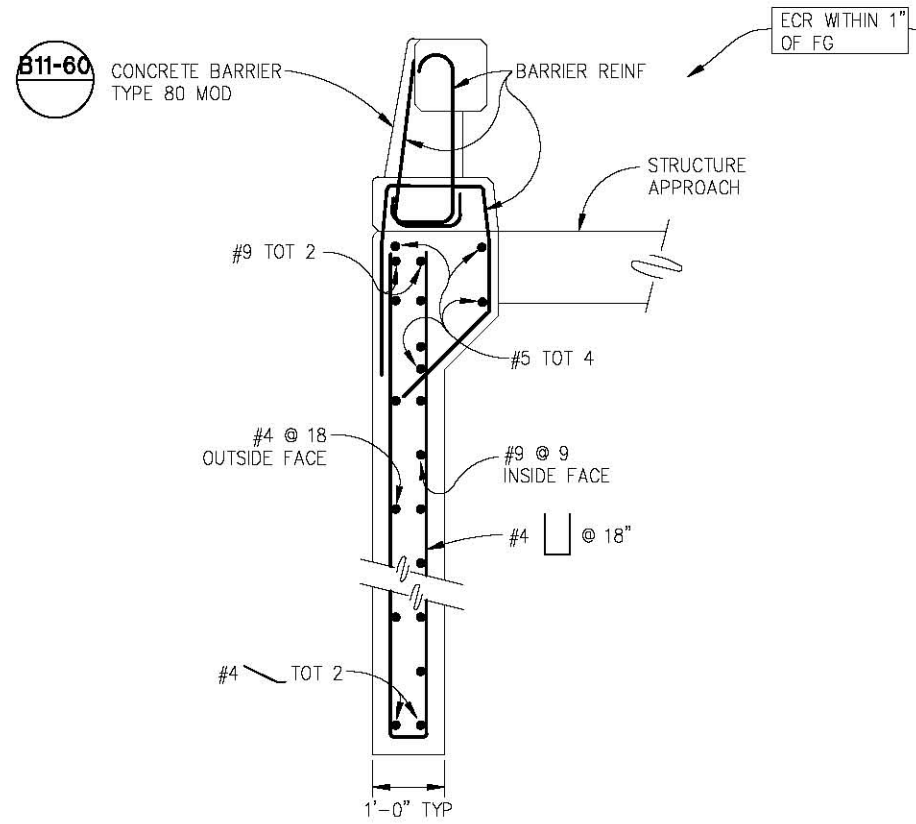


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

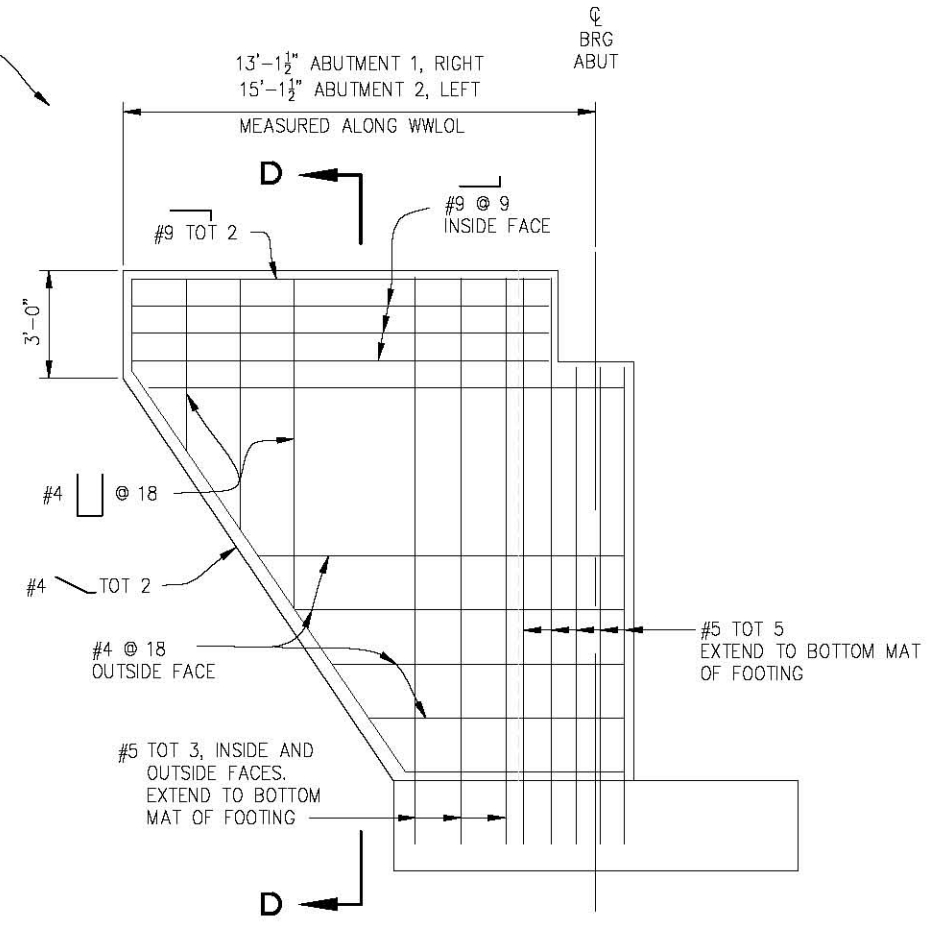
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET	S-6
21 OF 33	
W.O. No.	77138

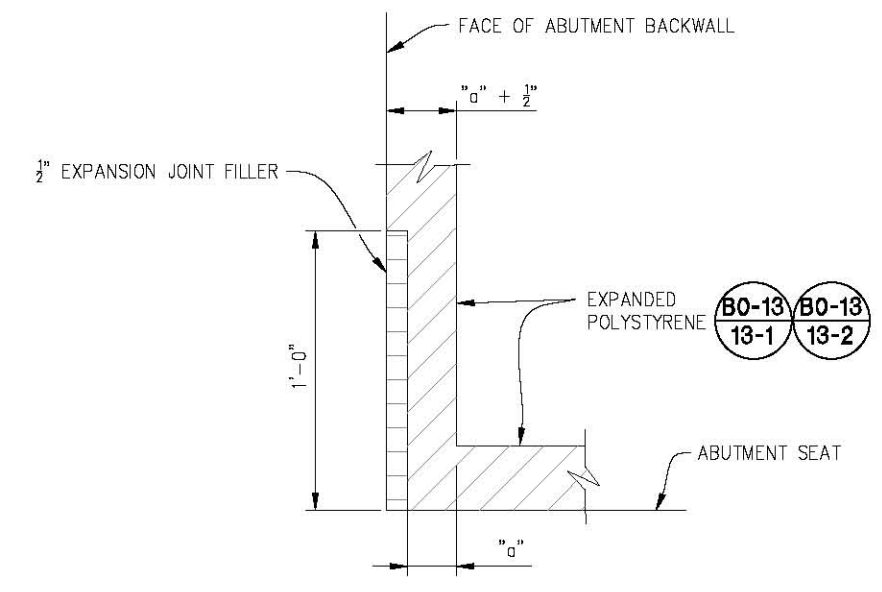
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 FOR REDUCED PLANS
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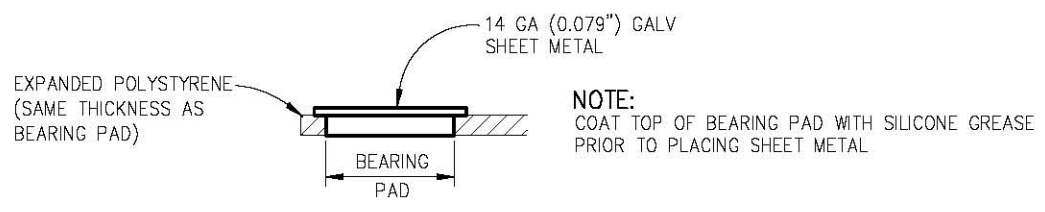
SECTION D-D
3/4"=1'-0"



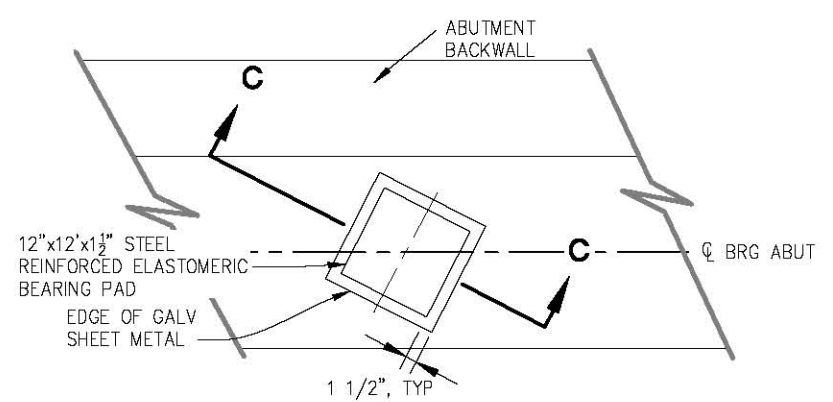
WINGWALL ELEVATION
ABUTMENT 1 RIGHT SHOWN, ABUTMENT 2 LEFT SIMILAR
3/8"=1'-0"



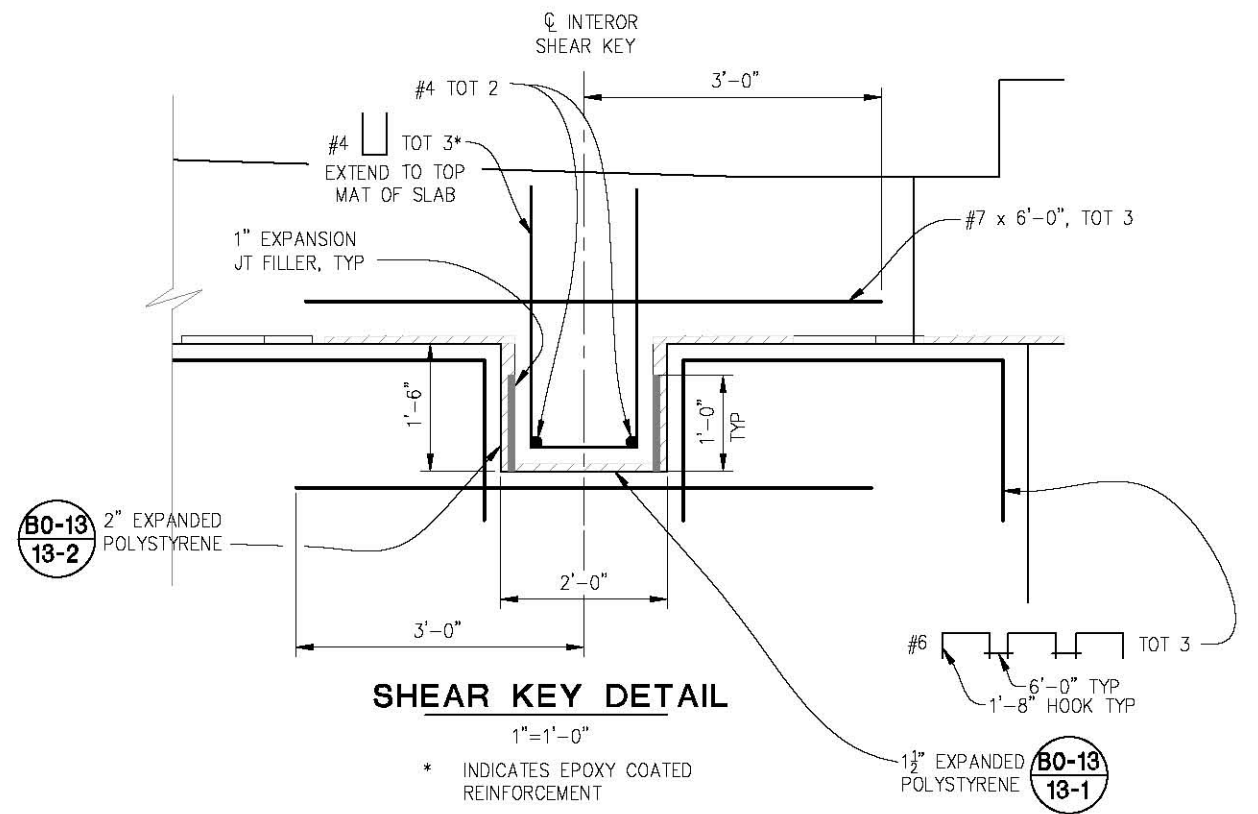
1 DETAIL A
NTS



SECTION C-C
N.T.S.



BEARING PAD DETAIL
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:
 [Signature]
 REGISTERED CIVIL ENGINEER

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

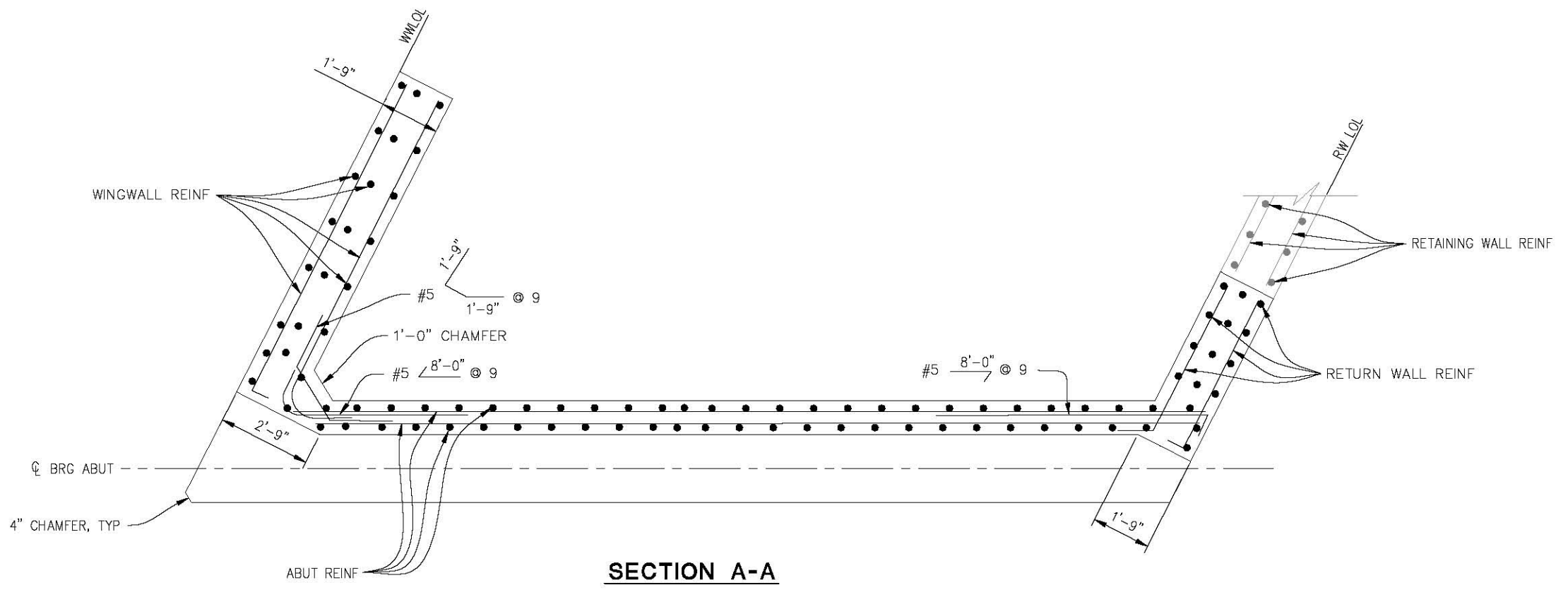


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
 BRIDGE REPLACEMENT

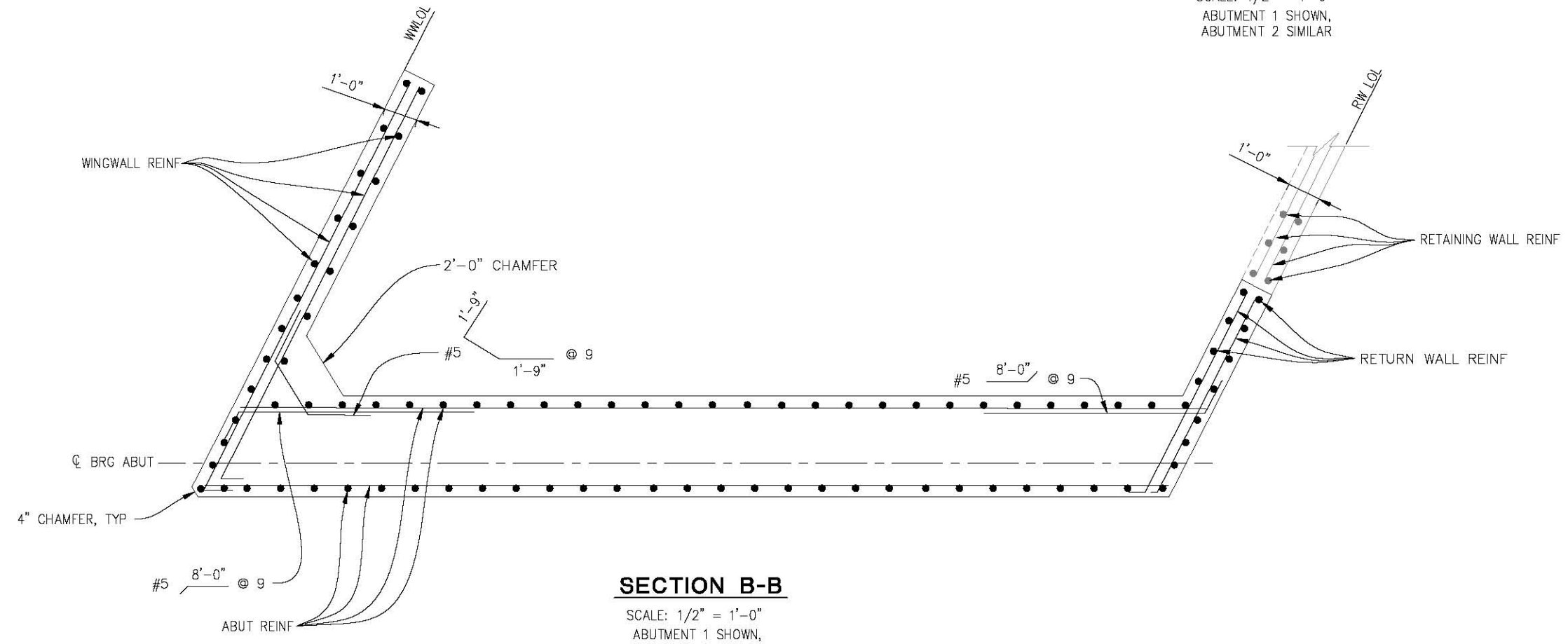
SHEET
S-7
 22 OF 33
 W.O. No. 77138

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-8.dwg Layout Tab: S-8 Feb 05, 2020 - 11:22am BRichards



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

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: _____

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

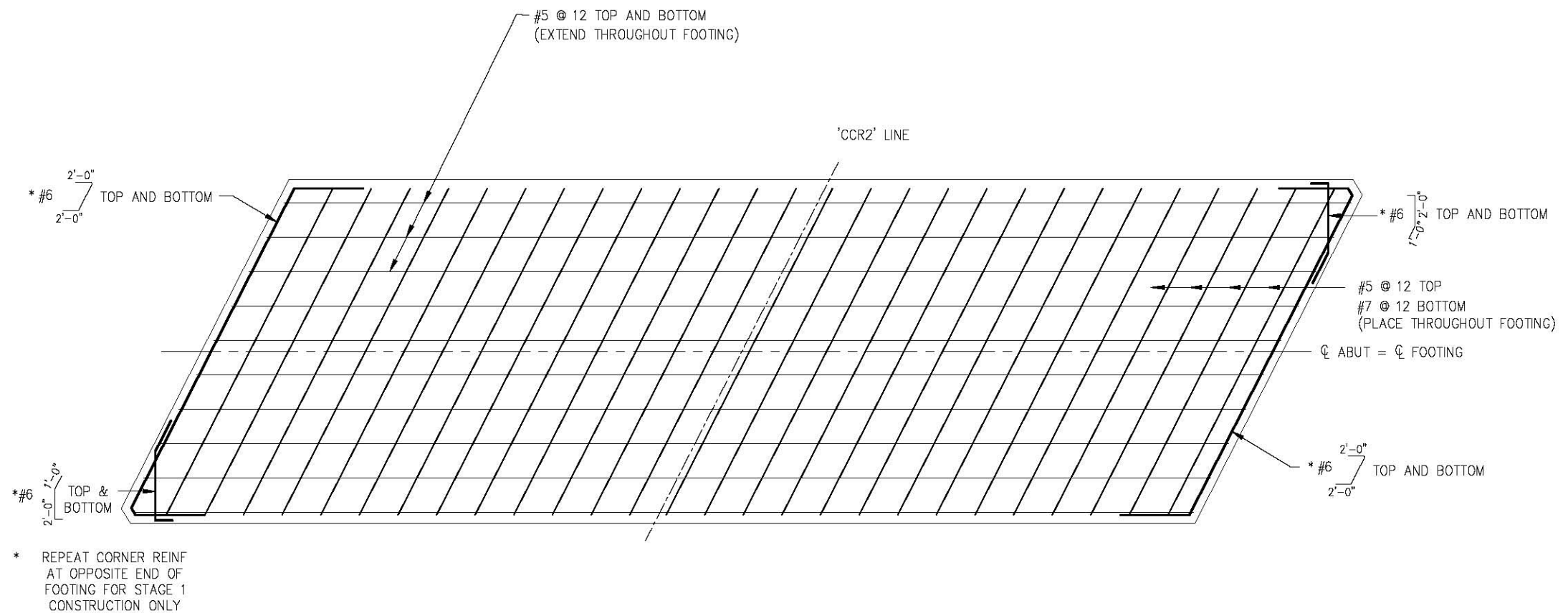


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
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 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-9.dwg Layout Tab: S-9 Feb 05, 2020 - 11:23am BRichards
 FOR REDUCED PLANS



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

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

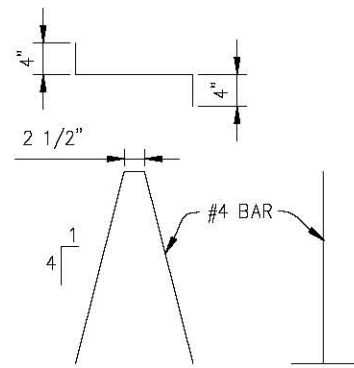


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

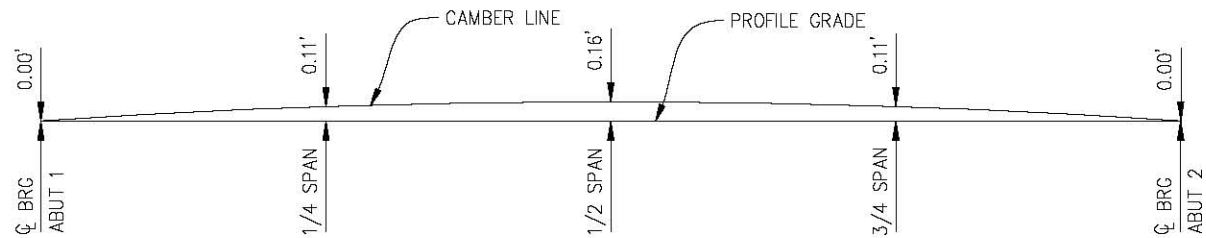
SHEET
S-9
 24 OF 33
 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-10.dwg Layout Tab: S-10 Feb 05, 2020 11:25am BRichards
 FOR REDUCED PLANS



BAR CHAIR DETAIL

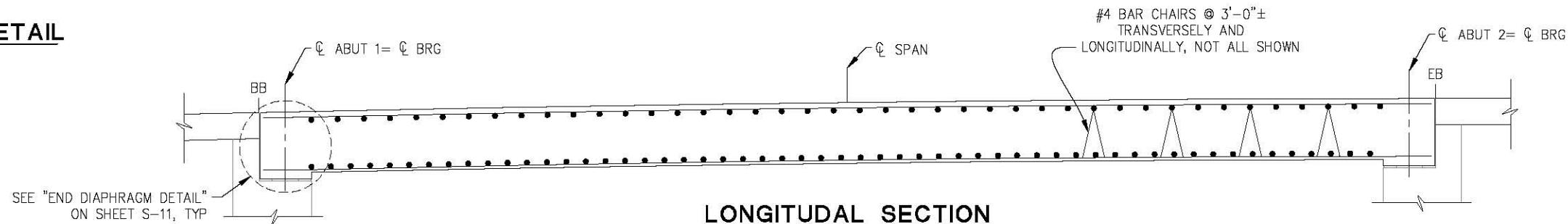
NTS



CAMBER DIAGRAM

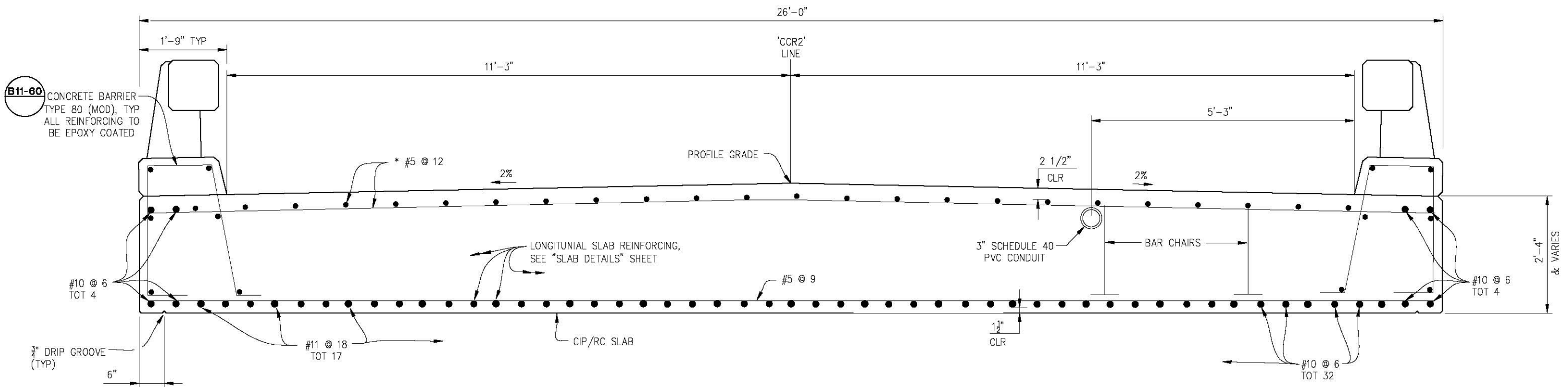
NTS

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



LONGITUDINAL SECTION

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



TYPICAL SECTION

SCALE: 1" = 1'-0"

NOTE:
* ALL TOP MAT REINFORCEMENT TO
BE EPOXY COATED

TYPICAL SECTION
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: _____

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

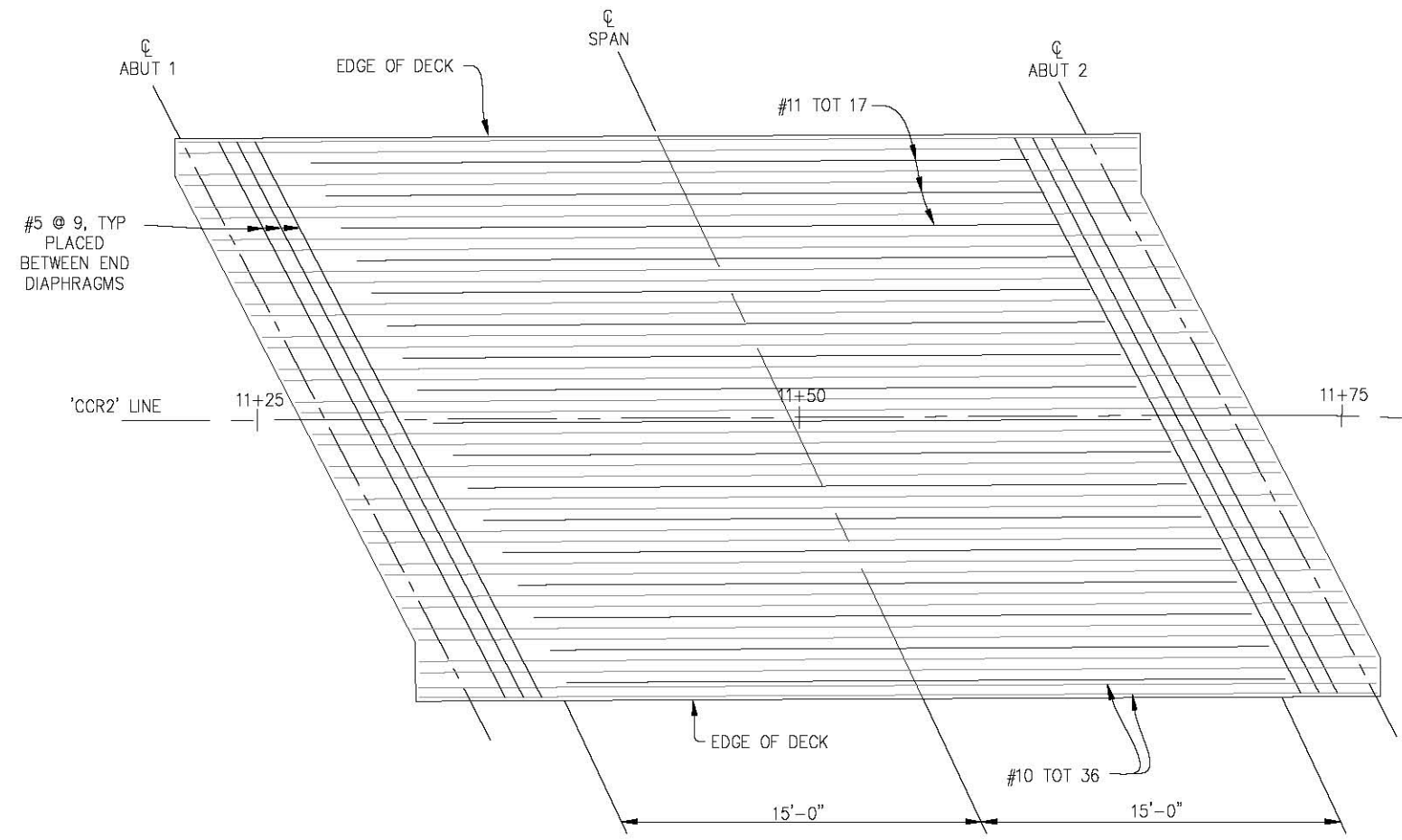


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

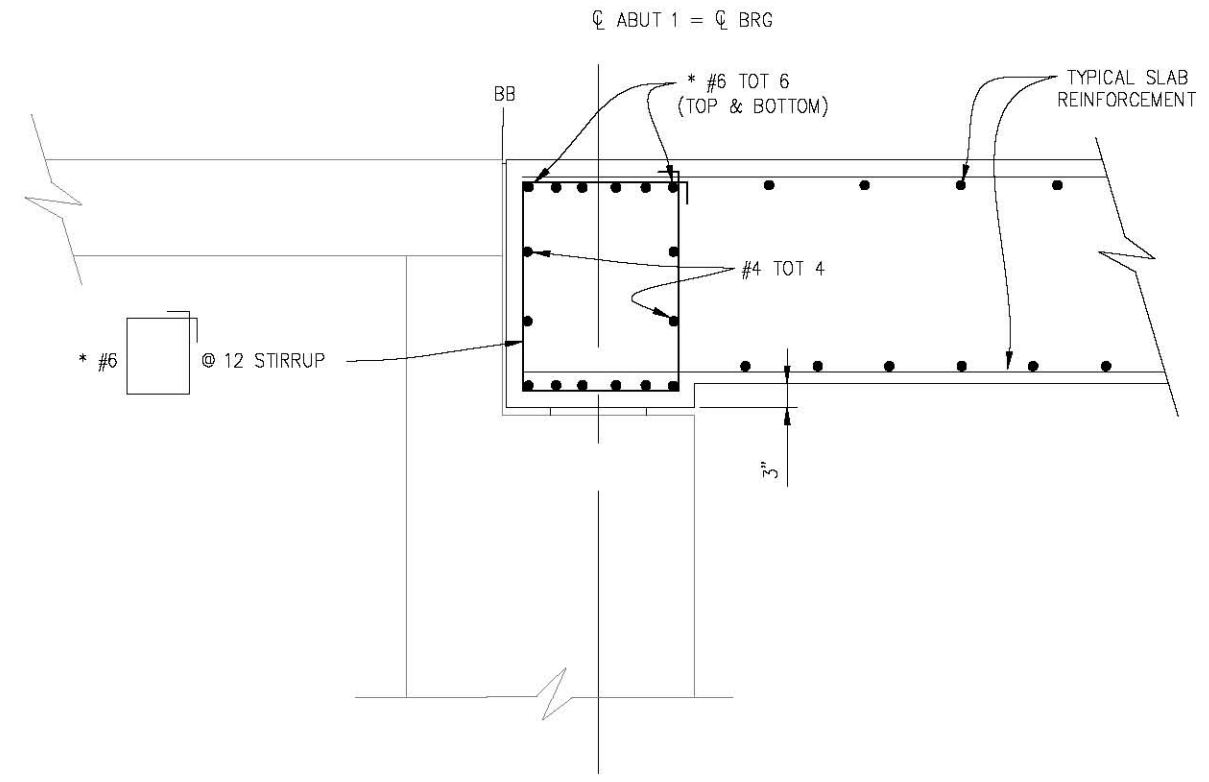
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
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W.O. No. 77138

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-11.dwg Layout Tab: S-11 Feb 05, 2020 11:26am BRichards



SLAB REINFORCEMENT PLAN (BOTTOM)
 1/4" = 1'-0"
 SEE "TYPICAL SECTIONS" SHEET FOR REINFORCEMENT IN TOP OF SLAB



END DIAPHRAGM DETAIL
 1" = 1'-0"
 ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR
 NOTE:
 * REINFORCEMENT TO BE EPOXY COATED

FOR REDUCED PLANS
 0 1 2

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
 BRIDGE REPLACEMENT

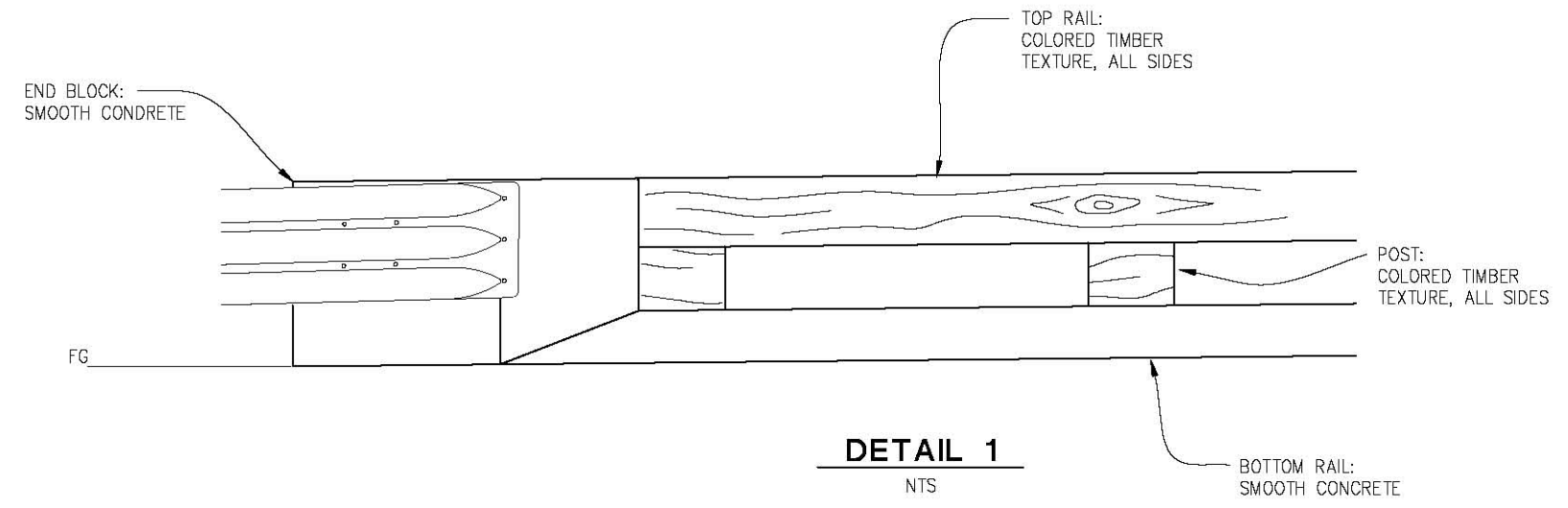
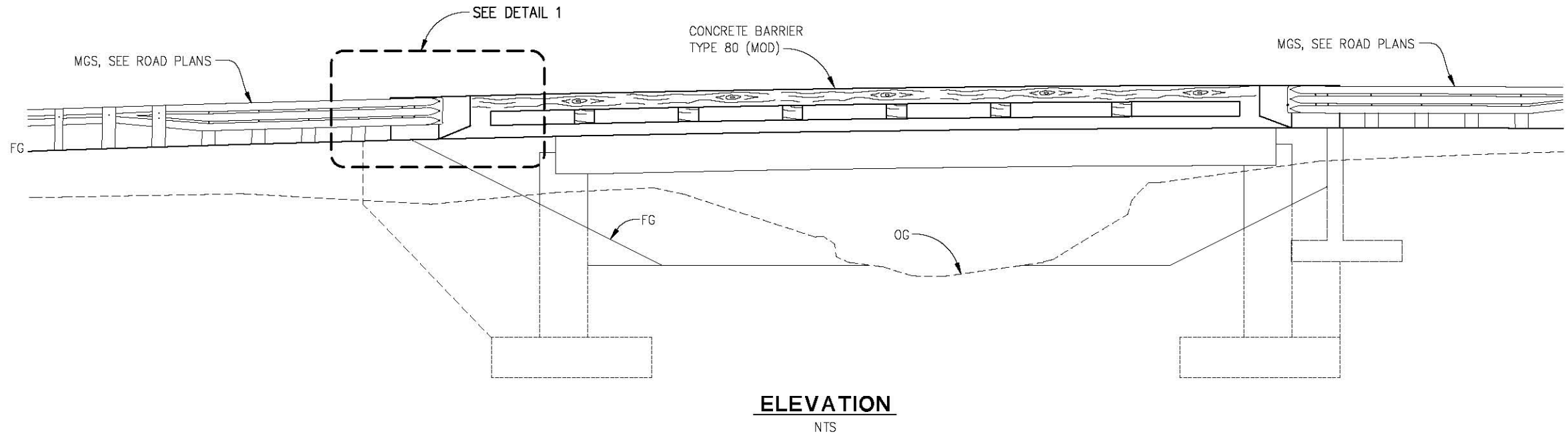
SLAB DETAILS
 SCALE : AS NOTED

SHEET
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 W.O. No. 77138

ORIGINAL SCALE: 1/8" = 1'-0" INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-12.dwg Layout Tab: S-12 Feb 05, 2020 - 11:27am BRichards

FOR REDUCED PLANS

2
1
0



ARCHITECTURAL TREATMENT
 SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE:

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

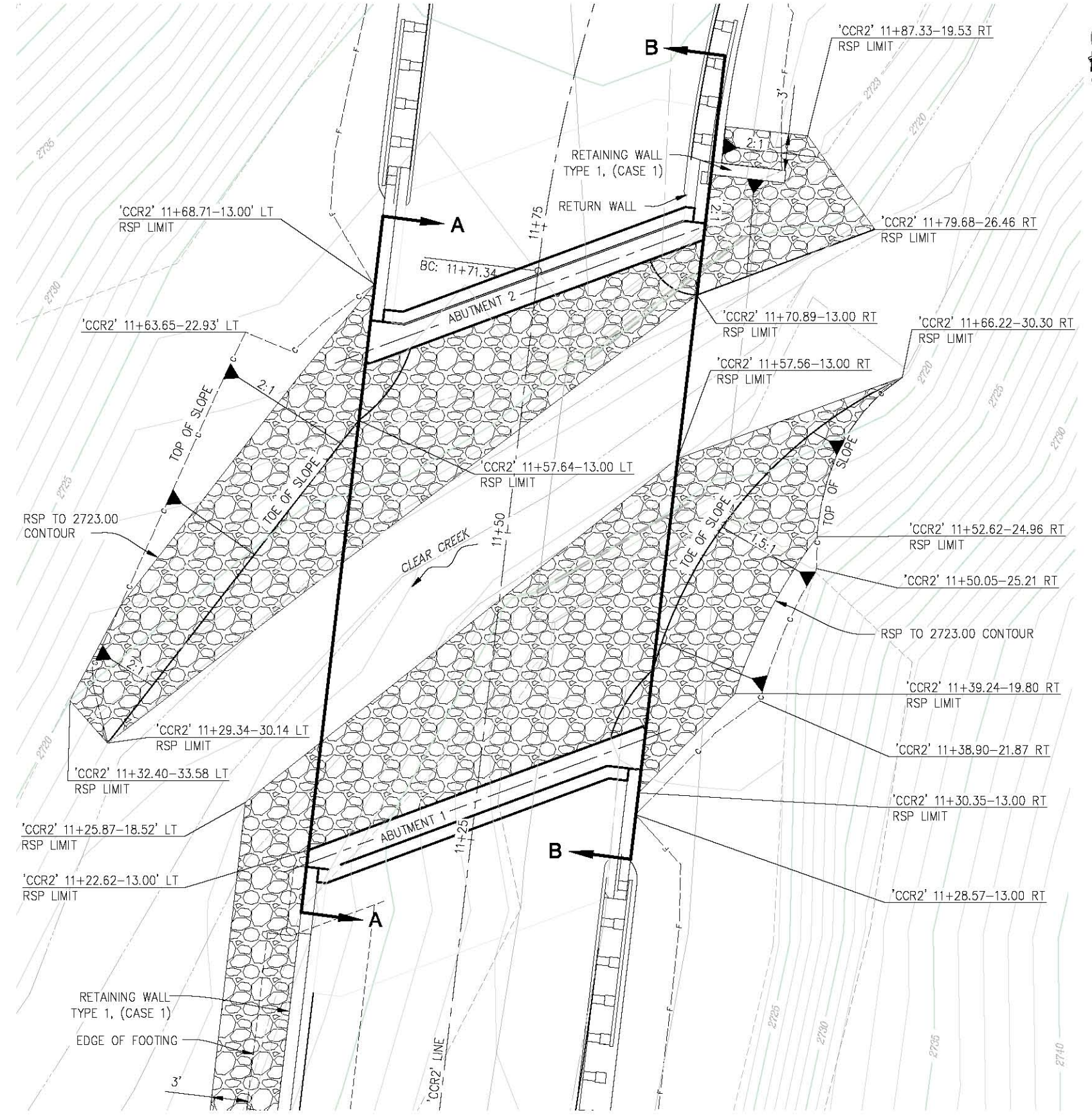


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

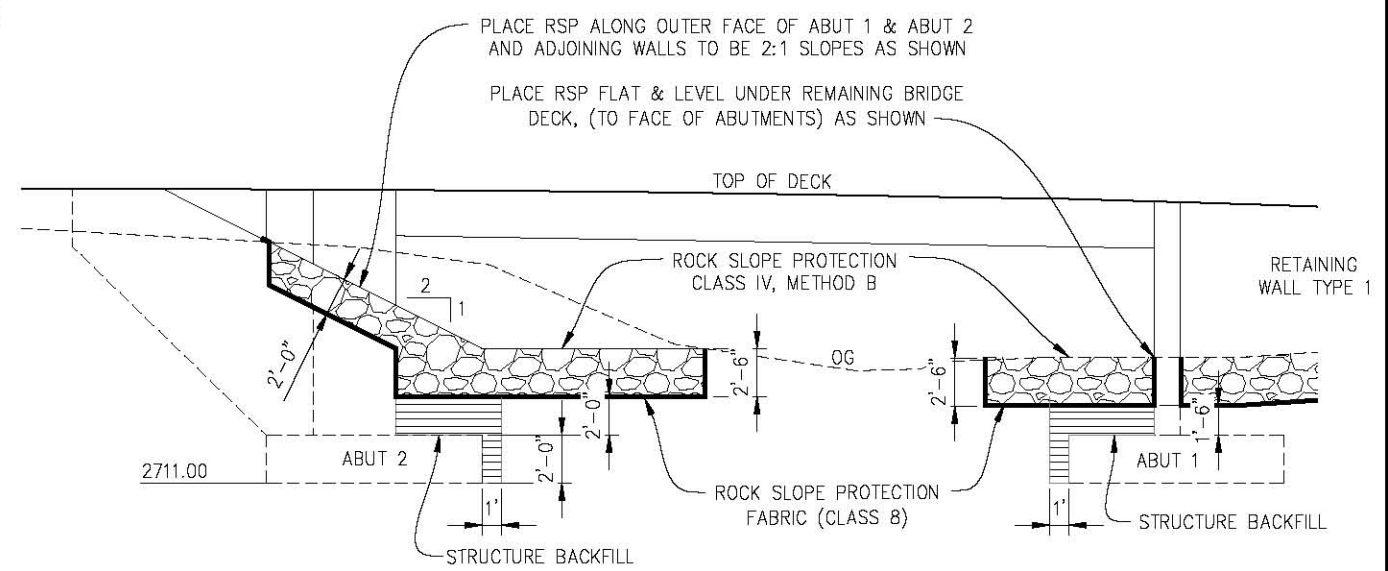
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
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 27 OF 33
 W.O. No. **77138**

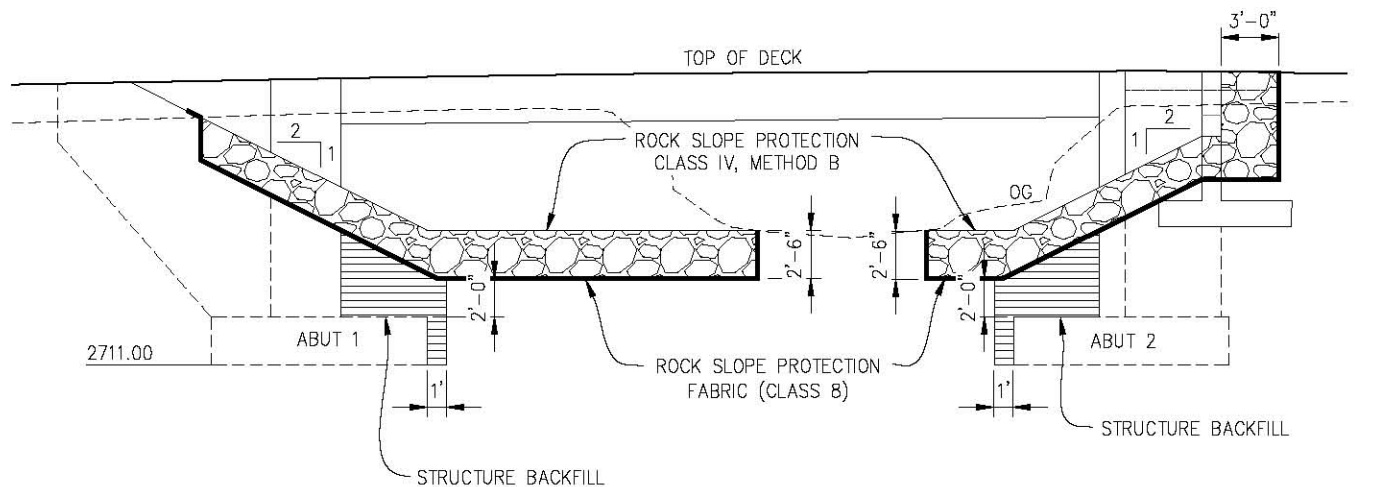
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 FOR REDUCED PLANS



PLAN
SCALE: 1"=5'



SECTION A-A
SCALE: 1"=5'



SECTION B-B
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: JD
 DATE: 2/5/20
 ROAD NUMBER: 81

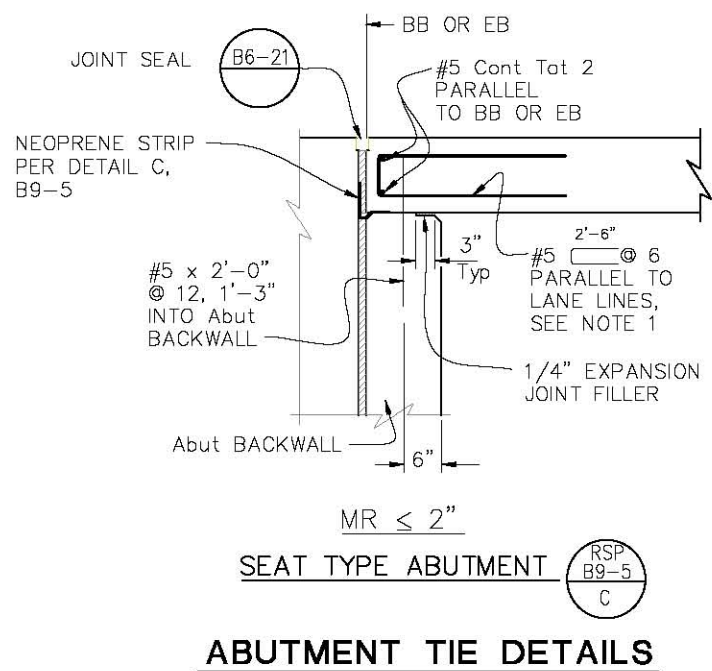
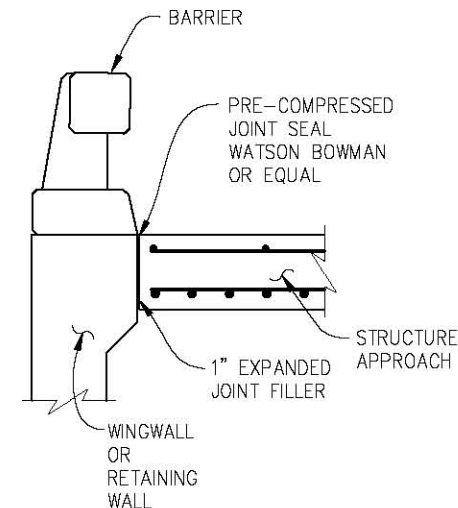
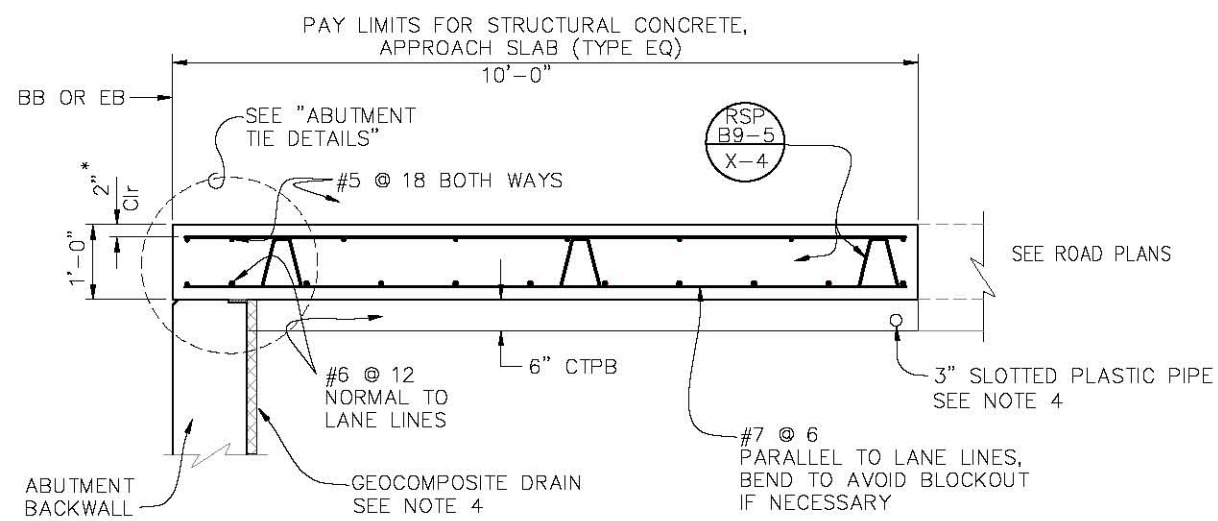
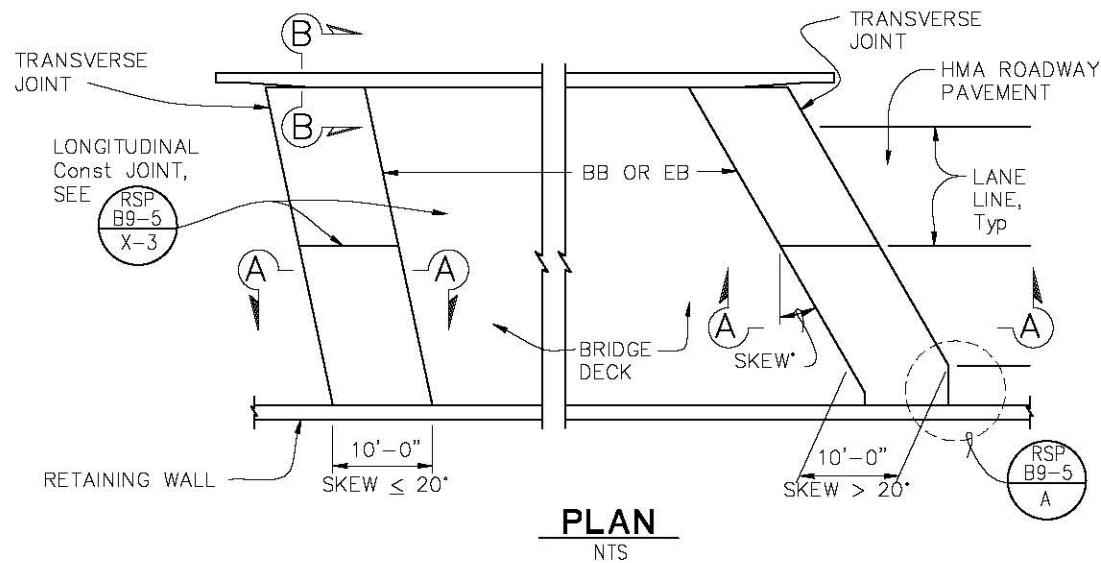


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
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W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-14.dwg
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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)
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: _____

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

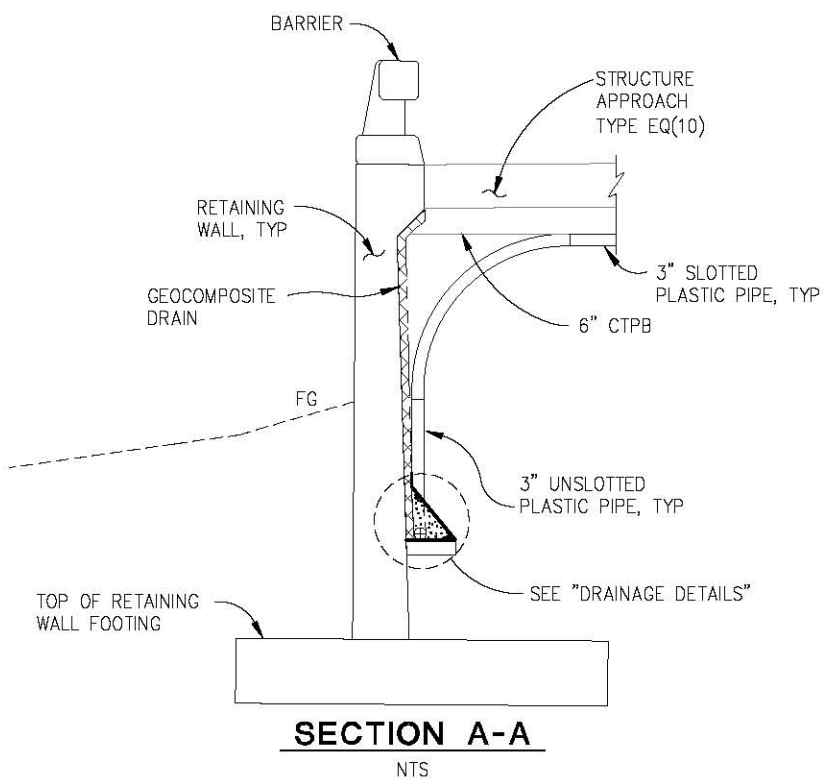
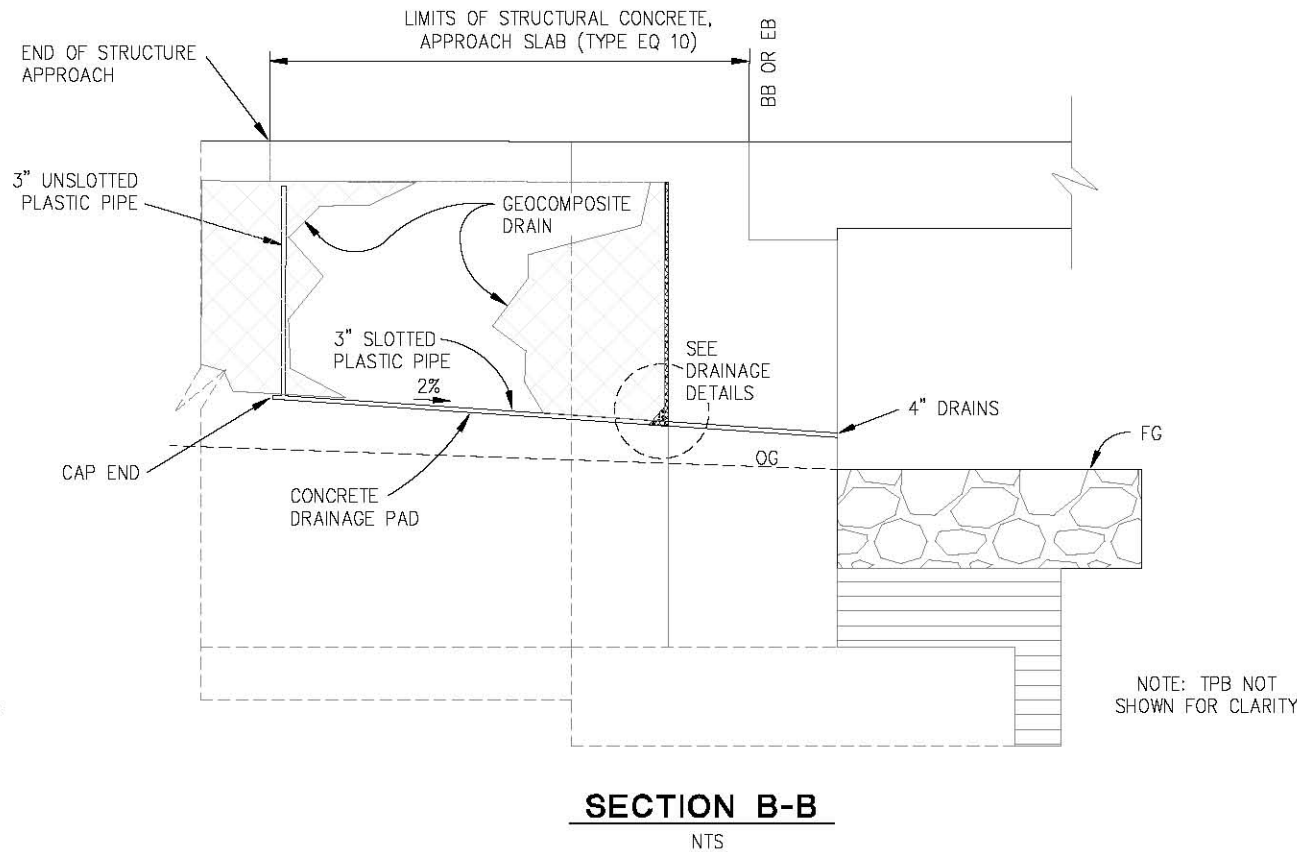
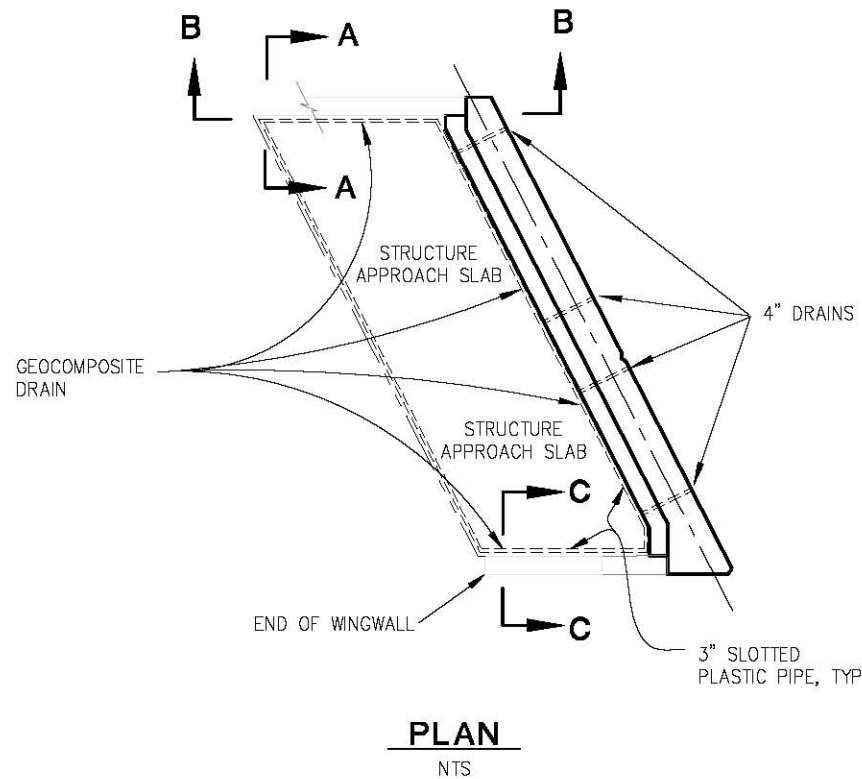
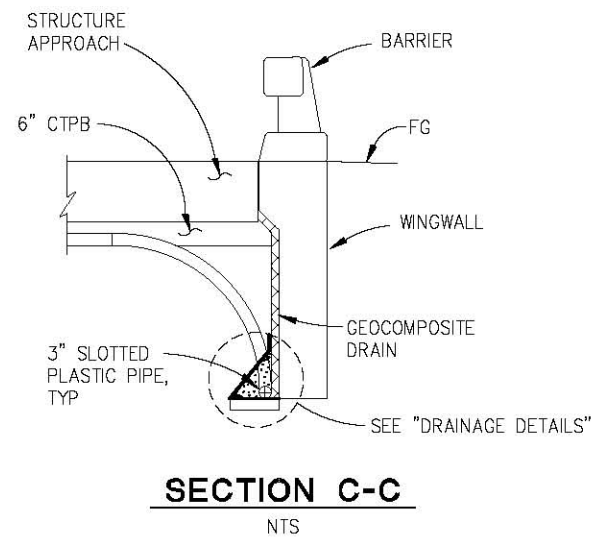


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

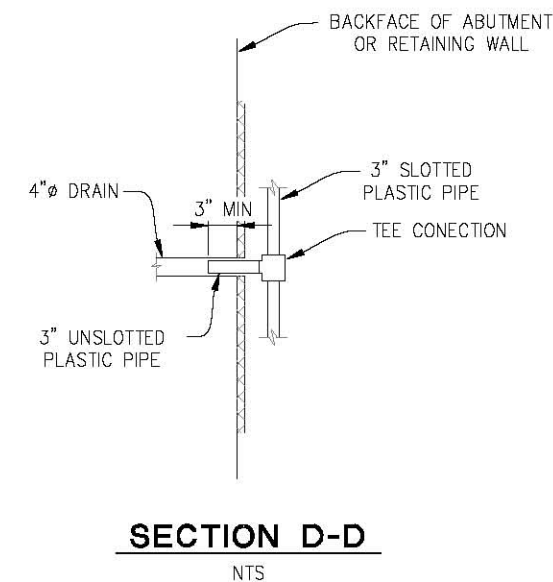
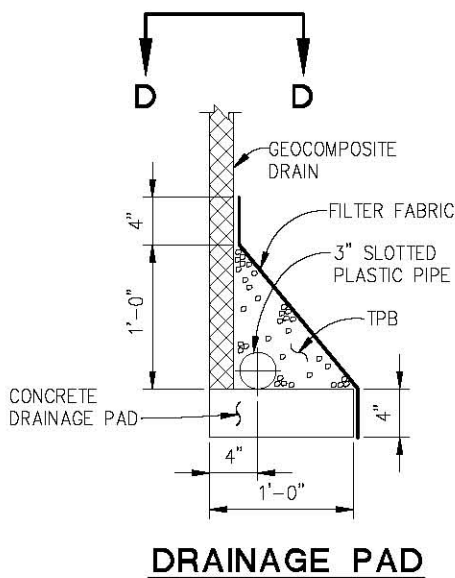
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
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 W.O. No. **77138**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-15.dwg
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 FOR REDUCED PLANS



- NOTE:
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 STRUCTURAL APPROACH TYPE EQ(10) SHEET.



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

STRUCTURE APPROACH DRAINAGE DETAILS
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE:

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

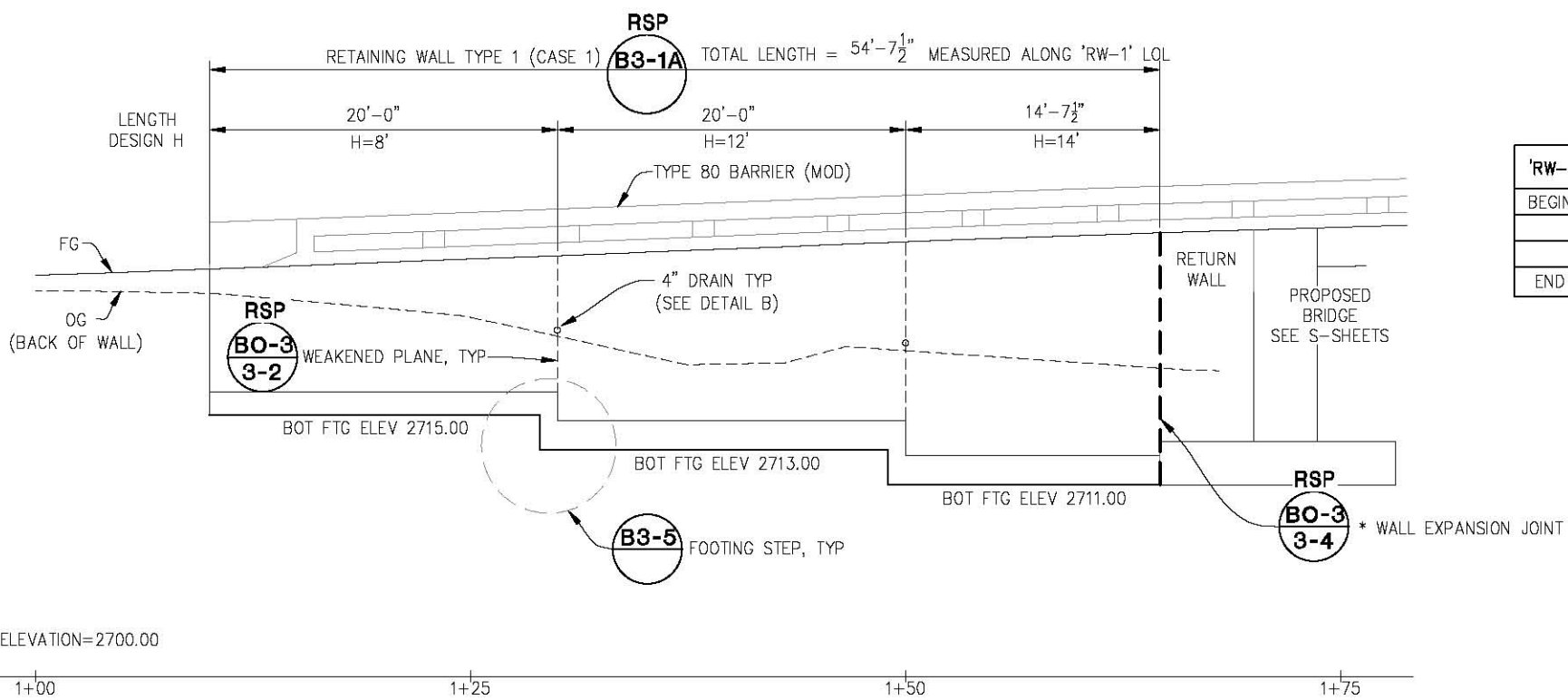


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

SHEET
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 W.O. No. 77138

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS



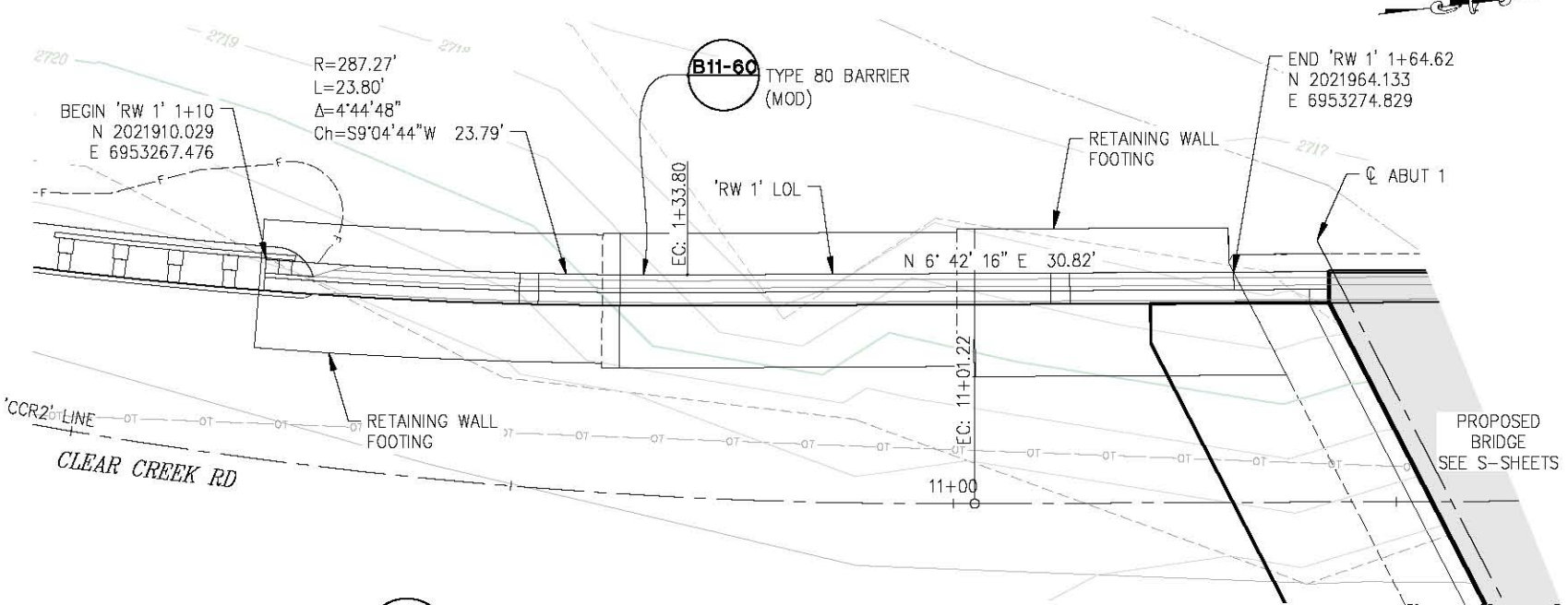
MIRRORED ELEVATION

SCALE: 1" = 5' H,V

* EXTEND WATERSTOP 6" INTO CONCRETE BARRIER

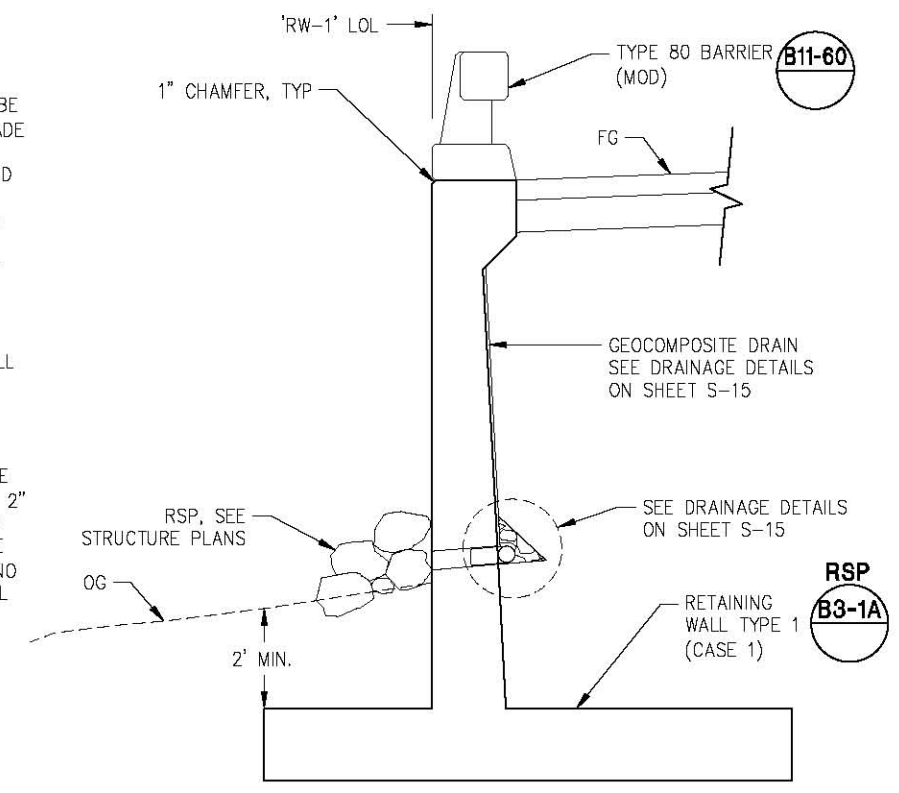
NOTES:

1. EXPOSED WALL DRAINS SHALL BE LOCATED 3" ABOVE FINISH GRADE
2. GEOCOMPOSITE DRAIN, CEMENT TREATED PERMEABLE BASE, AND 3" SLOTTED PLASTIC PIPE CONTINUOUS BEHIND RETAINING WALL. CAP ENDS PF PIPE. PROVIDE "TEE" CONNECTION AT EACH 4" DRAIN.
3. RETAINING WALL HAUNCH ALTERNATIVELY MAY BE ELIMINATED BY THICKENING WALL TO MATCH WIDTH OF BARRIER (1'-9"). NEGATIVE BATTER ALONG THE BACK OF FACE OF THE WALL IS NOT ALLOWED. CONCRETE COVER TO BACKFACE REINFORCEMENT SHALL REMAIN 2" ENTIRE HEIGHT OF WALL. THIS ALTERNATIVE SHALL BE AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



1 RETAINING WALL NO. 1 PLAN

SCALE: 1" = 5'



TYPICAL SECTION

SCALE: 1"=2'

RETAINING WALL LAYOUT NO. 1
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER

DESIGNED: JIB RR
 CHECKED: JD DATE: 2/5/20
 ROAD NUMBER: 81

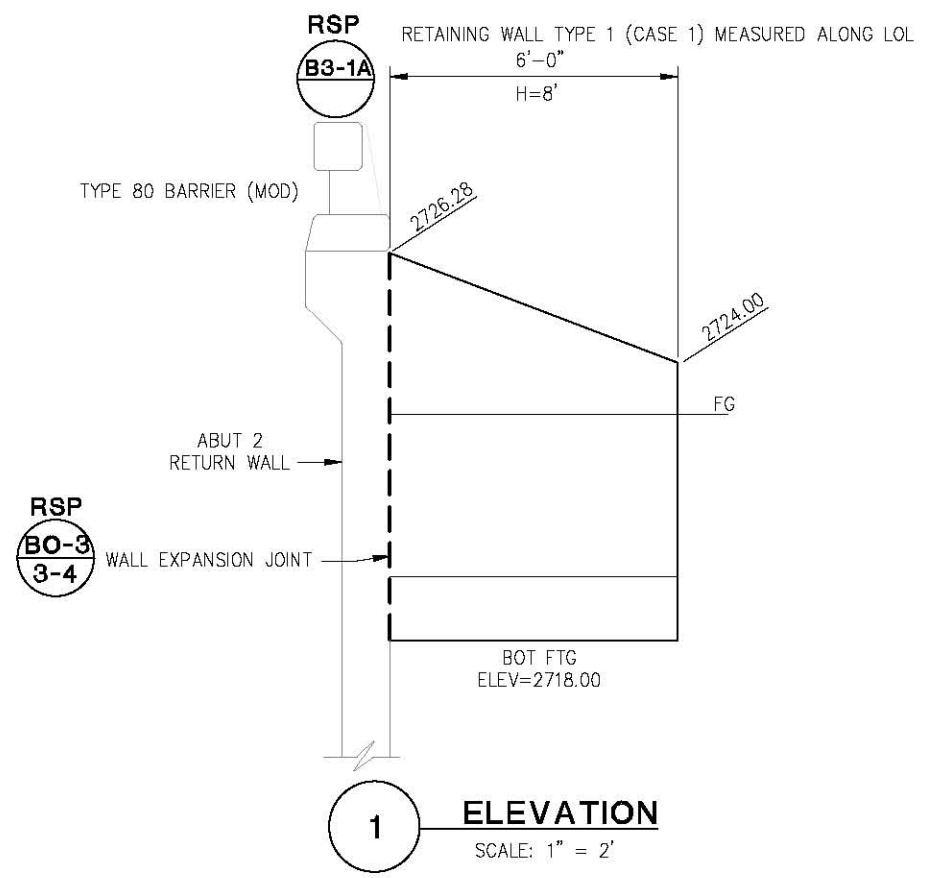


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

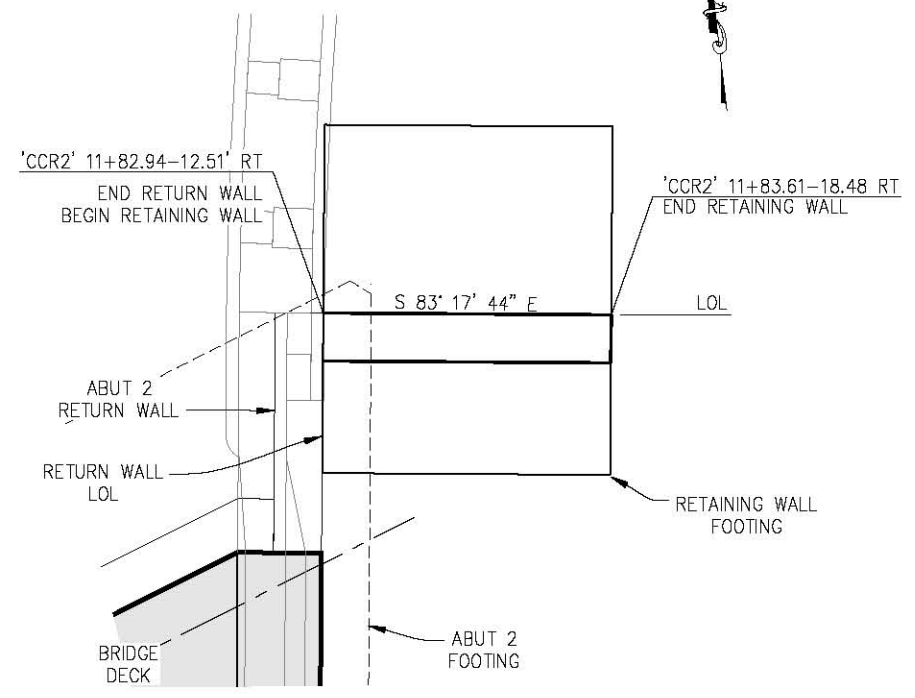
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

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 W.G. No. 77138

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77138 Clear Creek Rd. P.M. 1.82 Bridge Replacement\CADD Files\Sheets\S-17.dwg Layout Tab: S-17 Feb 05, 2020 11:35am BRichards
 FOR REDUCED PLANS



1 ELEVATION
SCALE: 1" = 2'



1 RETAINING WALL PLAN
SCALE: 1" = 5'

RETAINING WALL LAYOUT NO. 2
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF :
Michael S. Brown
 REGISTERED CIVIL ENGINEER
 DATE:

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



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

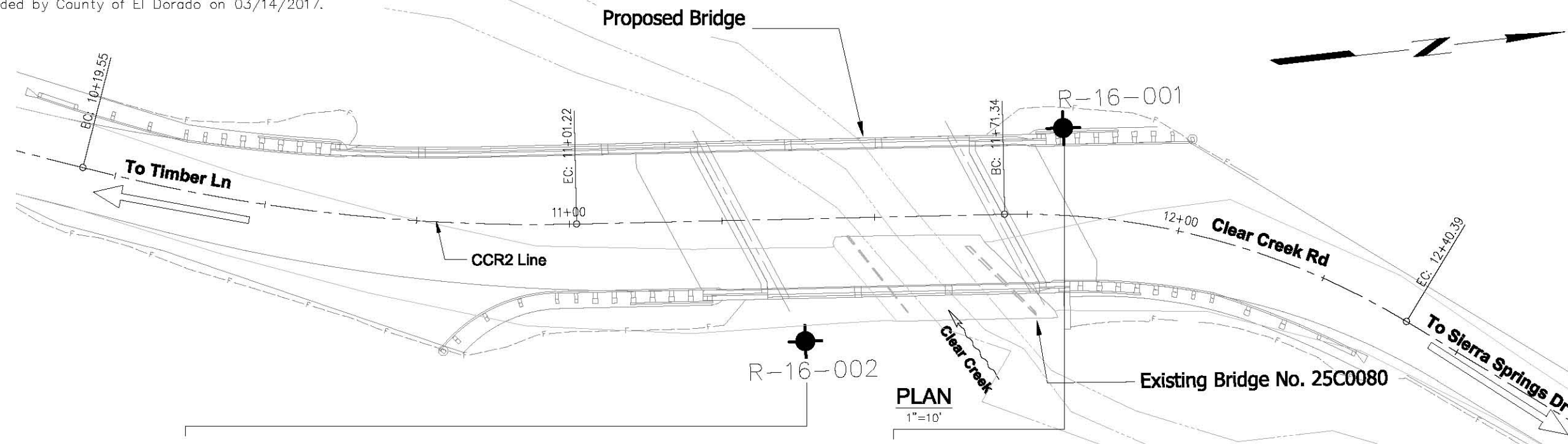
CLEAR CREEK ROAD P.M. 1.82
BRIDGE REPLACEMENT

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 W.D. No. 77138

REVISION	NUMBER	DATE	DESCRIPTION	BY

ELEVATION REFERENCE:
 Boring elevations estimated from topographic data provided by County of El Dorado on 03/14/2017.

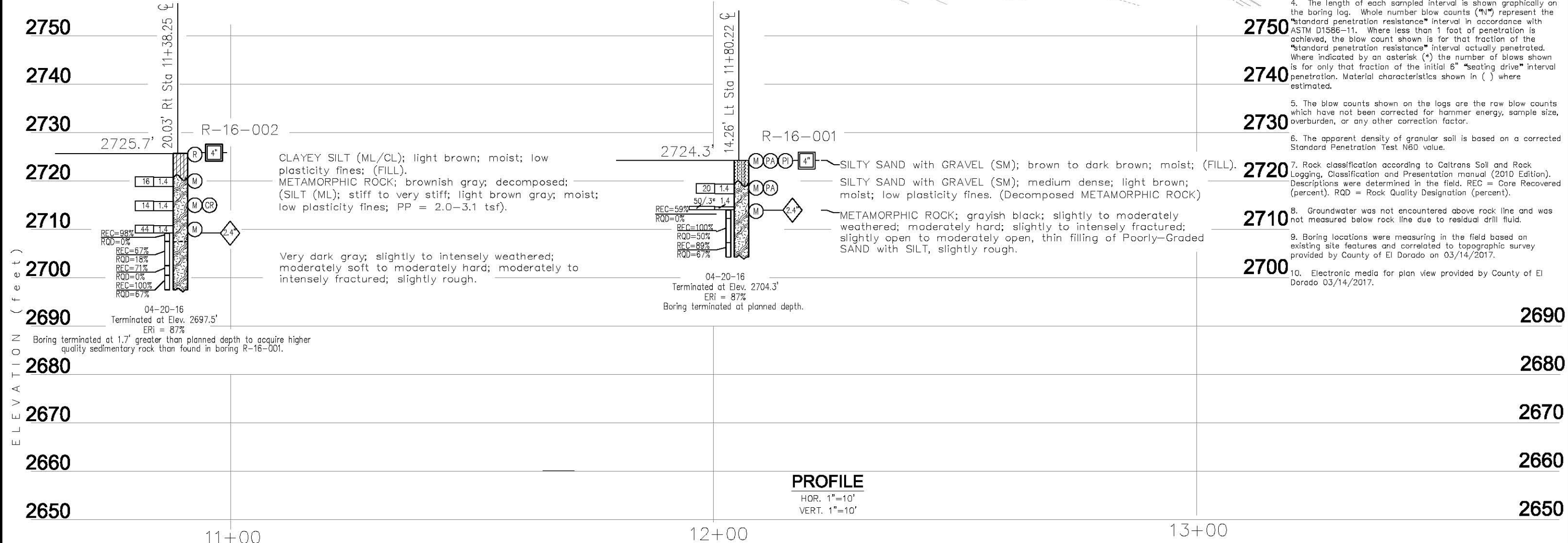
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	XX		33	33



CERTIFIED ENGINEERING GEOLOGIST DATE _____
 REGISTERED GEOLOGIST
 DAVID A. KITZMANN
 No. 2412
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

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 on 03/14/2017.
 - Electronic media for plan view provided by County of El Dorado 03/14/2017.



ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY	XX PROJECT ENGINEER	BRIDGE NO. XXX-XXXX	CLEAR CREEK ROAD AT CLEAR CREEK (PM 1.82)
FUNCTIONAL SUPERVISOR Name	DRAWN BY: D. Lukashov CHECKED BY: D. Kitzmann	FIELD INVESTIGATION BY: A. Kahn, G.I.T.	DATE: 4-20-16			POST MILE XX.XX	
OGS CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CJ XXXXXX EA XXXXXX	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
				0 1 2 3	FILE => \$REQUEST		SHEET 33 OF 33