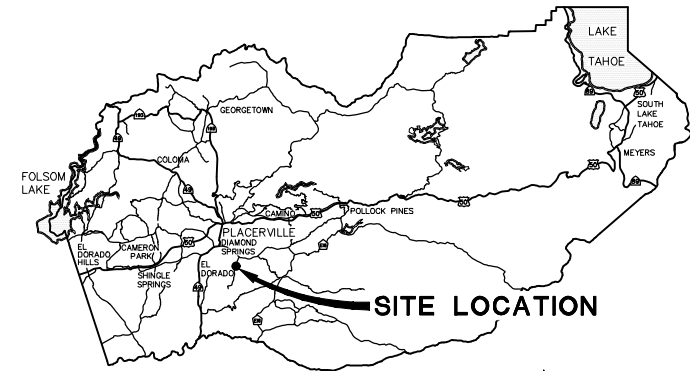


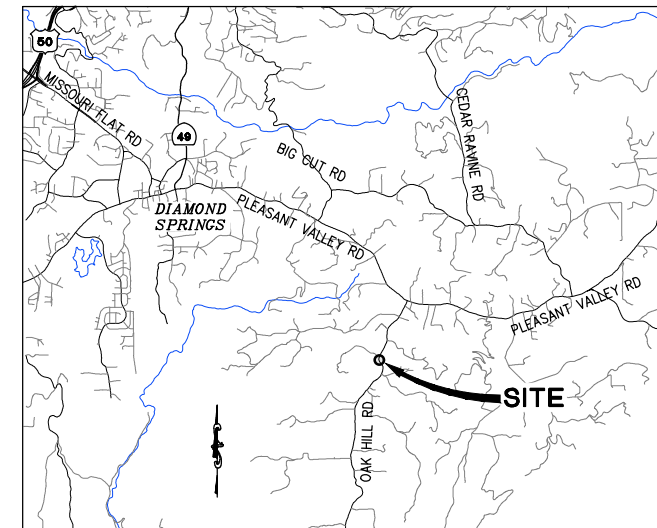
COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR THE CONSTRUCTION OF OAK HILL RD AT SQUAW HOLLOW CREEK BRIDGE

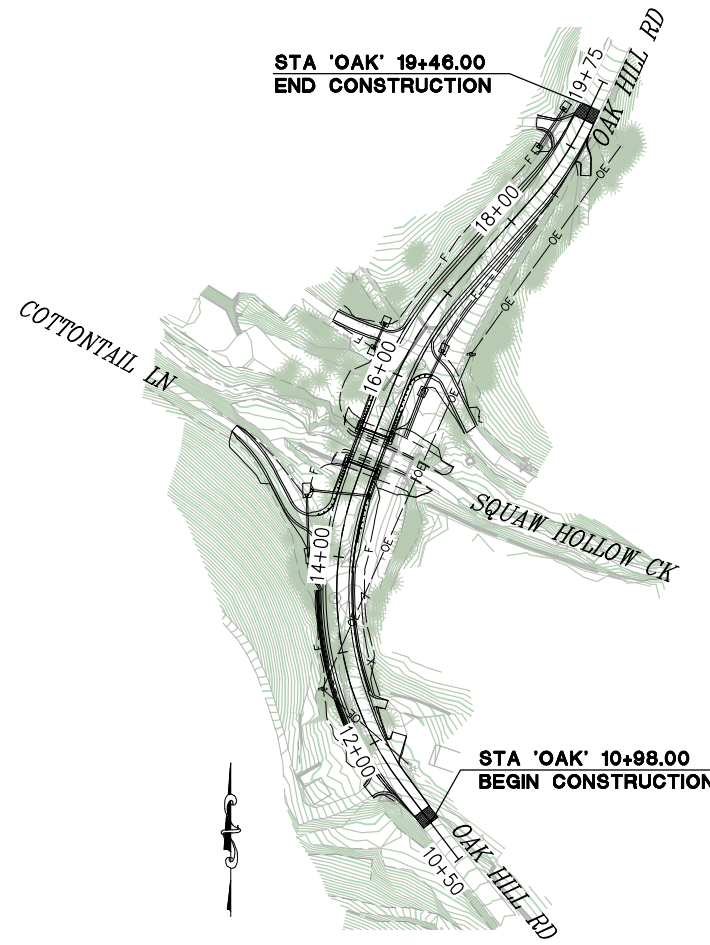
IN THE COUNTY OF EL DORADO, DISTRICT 3
ON OAK HILL ROAD, APPROXIMATELY 0.63 MILES SOUTH OF THE PLEASANT VALLEY ROAD INTERSECTION
To be supplemented with Standard Plans and Specifications dated 2015, including
the 2015 Revised Standard Specifications, of the California Department of
Transportation, unless otherwise noted.



VICINITY MAP
COUNTY OF EL DORADO



LOCATION MAP
NOT TO SCALE



SITE PLAN
SCALE: 1"=100'

SHEET	PLAN SHEET	TITLE
1		TITLE SHEET
2-3	CD-1 THRU CD-2	SURVEY AND CONTROL DIAGRAM
4	X-1	TYPICAL SECTIONS
5-13	L-1 THRU L-9	LAYOUT
14	SE-1	SUPERELEVATION DIAGRAM
15	C-1	CONSTRUCTION DETAILS
16	C-2	CONSTRUCTION DETAILS-GUARDRAIL AND FENCING PLAN
17	G-1	CONTOUR GRADING PLAN
18	G-2	ROCK SLOPE PROTECTION
19-22	D-1 THRU D-4	DRAINAGE PLANS
23	DM-1	DEMOLITION PLAN
24-27	SC-1 THRU SC-4	STAGE CONSTRUCTION PLANS
28-29	SPD-1 THRU SPD-2	SIGNING AND PAVEMENT DELINEATION
30	EC-1	EROSION CONTROL PLAN
31-32	TR-1 THRU TR-2	TREE REMOVAL PLAN

STRUCTURAL PLANS		
33	S-1	GENERAL PLAN
34	S-2	GENERAL NOTES
35	S-3	FOUNDATION PLAN
36	S-4	ABUTMENT LAYOUT
37-39	S-5 THRU S-7	ABUTMENT DETAILS
40	S-8	SLAB REINFORCEMENT DETAILS
41	S-9	LOG OF TEST BORINGS-BRIDGE
42	RW-1	RETAINING WALL GENERAL PLAN
43-44	RW-2 THRU RW-3	RETAINING WALL DETAILS
45	RW-4	LOG OF TEST BORINGS-RETAINING WALL

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



BOARD OF SUPERVISORS

I	JOHN HIDAHL
II	GEORGE TURNBOO
III	WENDY THOMAS
IV	LORI PARLIN
V	BROOKE LAINE

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

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

ADOPTED AND APPROVED BY:

DATE	
DATE	
DATE	

WENDY THOMAS
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS

APPROVED BY:

RAFAEL MARTINEZ, DIRECTOR
DEPARTMENT OF TRANSPORTATION

JOHN KAHLING P.E. NO. C52426
DEPUTY DIRECTOR, ENGINEERING

PW NO. XX-XXXX PROJECT NO. 77134

**OAK HILL RD AT
SQUAW HOLLOW
CREEK BRIDGE**

TITLE SHEET

SHEET **1** OF **45**

FUNDING AGENCY

SUBMITTED BY: _____ DATE _____
CIVIL ENGINEER
STATE OF CALIFORNIA NO. _____

Drawing name: Z:\Civil\3D Projects\77134 Oak Hill Rd. at Squaw Hollow Creek Bridge\CADD Files\Sheets\Title.dwg Layout Tab: Title Feb 03,2023 - 6:02am smevey

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 FOR REDUCED PLANS
 REVISION

DWY-1162				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	7.54		N 66° 17' 40" E	
C1	15.40	80.00	N 60° 46' 44" E - 15.38	11° 01' 53"
L2	37.05		N 55° 15' 48" E	

DWY-1426				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L3	21.46		S 56° 17' 59" E	
C2	74.80	150.00	S 42° 00' 51" E - 74.03	28° 34' 15"
L4	39.59		S 27° 43' 44" E	
C3	35.97	40.00	S 53° 29' 21" E - 34.77	51° 31' 15"
L5	28.18		S 79° 14' 58" E	

CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
35	2008302.92	6910933.16	2071.33	CP Spike
36	2008059.05	6910972.47	2089.89	CP Spike
41	2008448.86	6910989.15	2071.29	AUX CP 60D
42	2008465.16	6910765.32	2068.56	AUX CP 60D
43	2008367.97	6911083.30	2065.02	AUX CP 60D
44	2008738.99	6911179.26	2101.86	AUX CP MAG
45	2008742.96	6911144.13	2100.45	AUX CP 60D
46	2008139.61	6910973.53	2083.88	AUX CP
47	2007951.66	6911035.01	2105.33	CP 60D
48	2008523.45	6910827.20	2063.28	CP 60D

NOTE:
 HORIZONTAL DATUM:
 BEARINGS SHOWN ARE BASED ON GRID NORTH, CALIFORNIA COORDINATE SYSTEM 1983, ZONE II.
 DISTANCES SHOWN ARE GRID DISTANCES, DIVIDE BY .999844 TO OBTAIN GROUND DISTANCES.
 VERTICAL DATUM:
 ELEVATIONS SHOWN HEREON ARE BASED ON NGVD 1929 DATUM.

SURVEY AND CONTROL DIAGRAM
 SCALE : 1" = 30'

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 PROFESSIONAL LAND SURVEYOR
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: JN
 DATE: 02/03/23
 ROAD NUMBER: 031

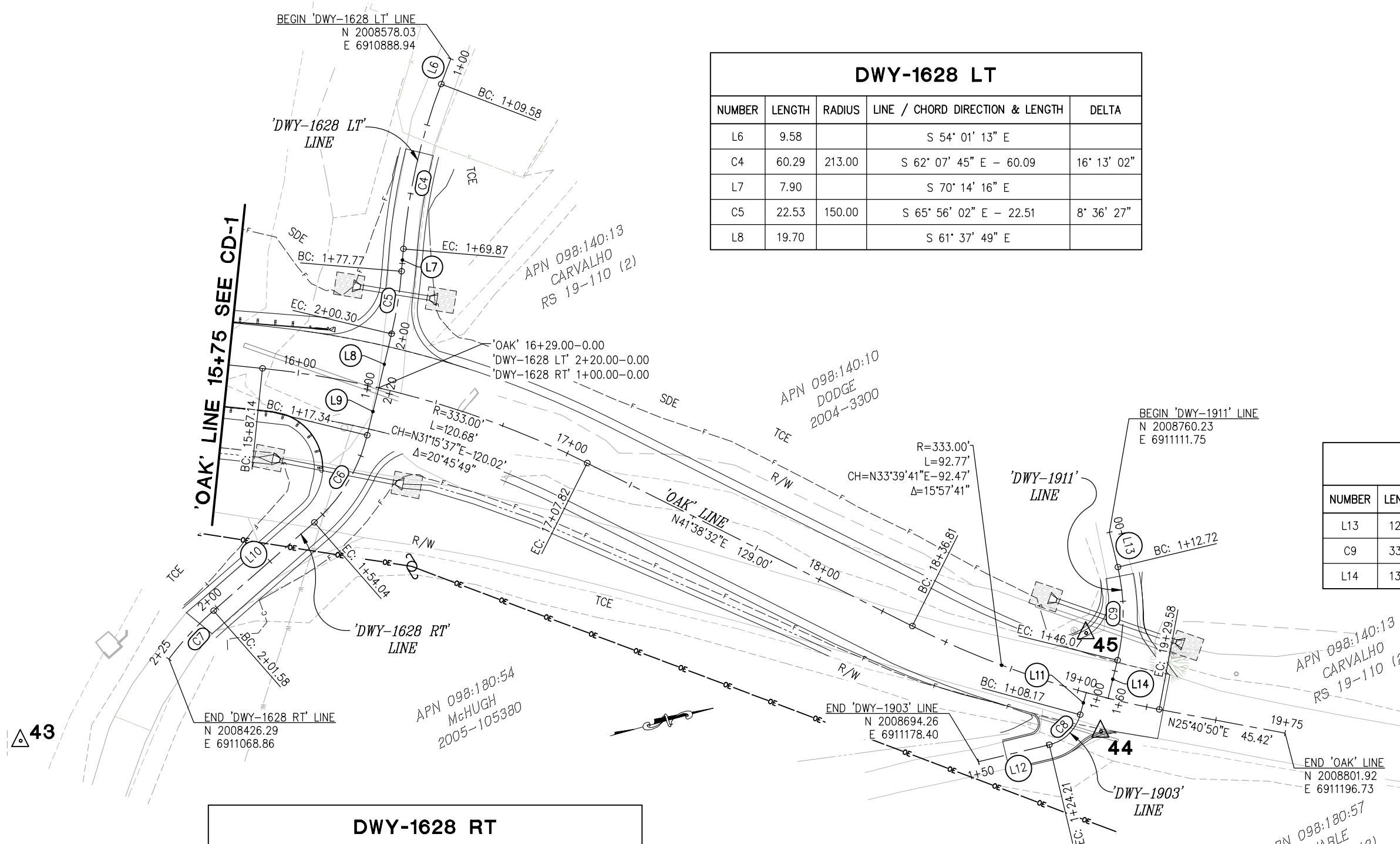


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
 CREEK BRIDGE

SHEET
CD-1
 2 OF 45
 W.O. No. 77134

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



DWY-1628 LT				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L6	9.58		S 54° 01' 13" E	
C4	60.29	213.00	S 62° 07' 45" E - 60.09	16° 13' 02"
L7	7.90		S 70° 14' 16" E	
C5	22.53	150.00	S 65° 56' 02" E - 22.51	8° 36' 27"
L8	19.70		S 61° 37' 49" E	

DWY-1911				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L13	12.72		S 88° 25' 21" E	
C9	33.35	70.00	S 74° 46' 21" E - 33.04	27° 18' 01"
L14	13.93		S 61° 07' 21" E	

DWY-1628 RT				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L9	17.34		S 61° 17' 14" E	
C6	36.70	60.00	S 43° 45' 52" E - 36.13	35° 02' 44"
L10	47.54		S 26° 14' 30" E	
C7	23.42	110.00	S 32° 20' 25" E - 23.37	12° 11' 50"

DWY-1903				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L11	8.17		S 59° 44' 46" E	
C8	16.04	15.00	S 29° 06' 45" E - 15.29	61° 16' 01"
L12	25.79		S 1° 31' 15" W	


SURVEY AND CONTROL DIAGRAM
SCALE : 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 PROFESSIONAL LAND SURVEYOR
 DATE: _____

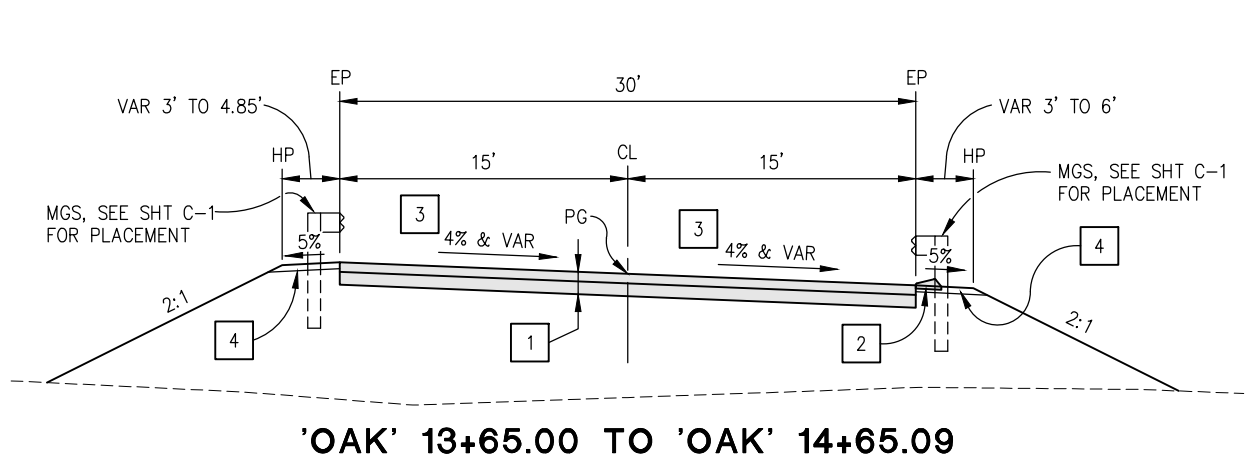
DESIGNED: ZO
 DRAWN: SGM
 CHECKED: JN
 DATE: 02/03/23
 ROAD NUMBER: 031


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

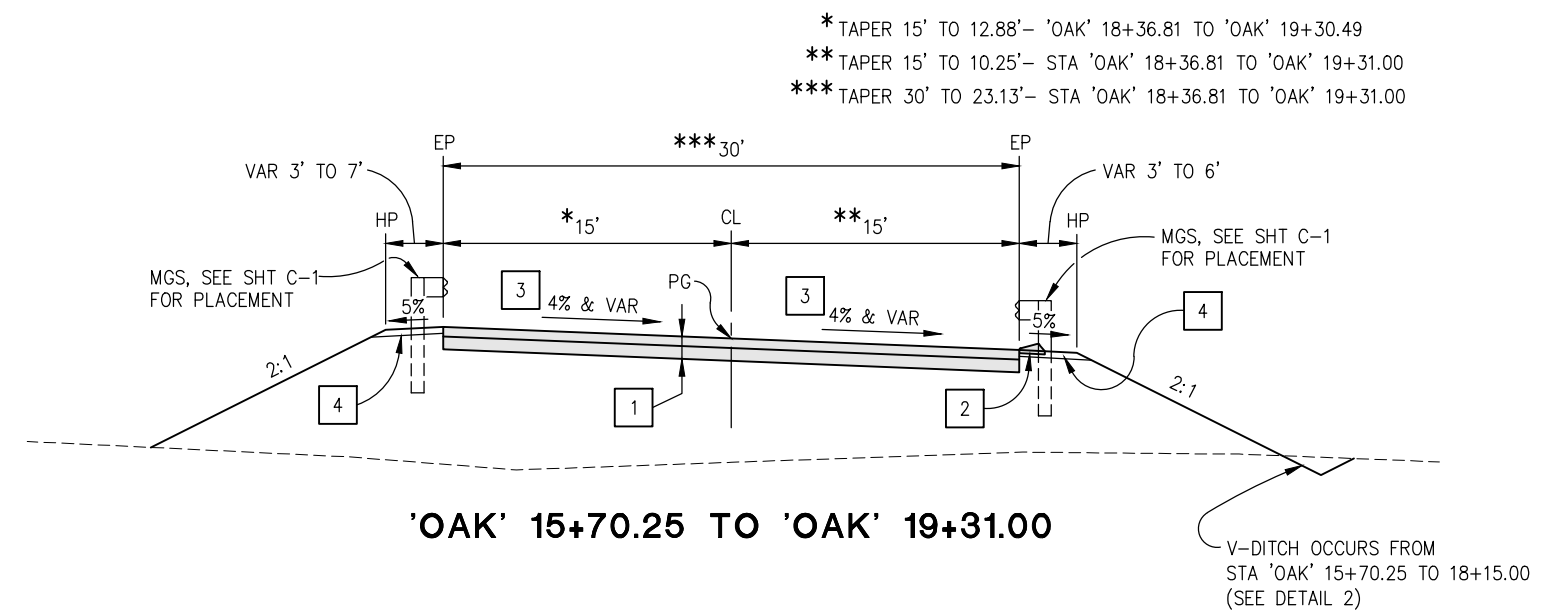
OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET
CD-2
 3 OF 45
 W.O. No. **77134**

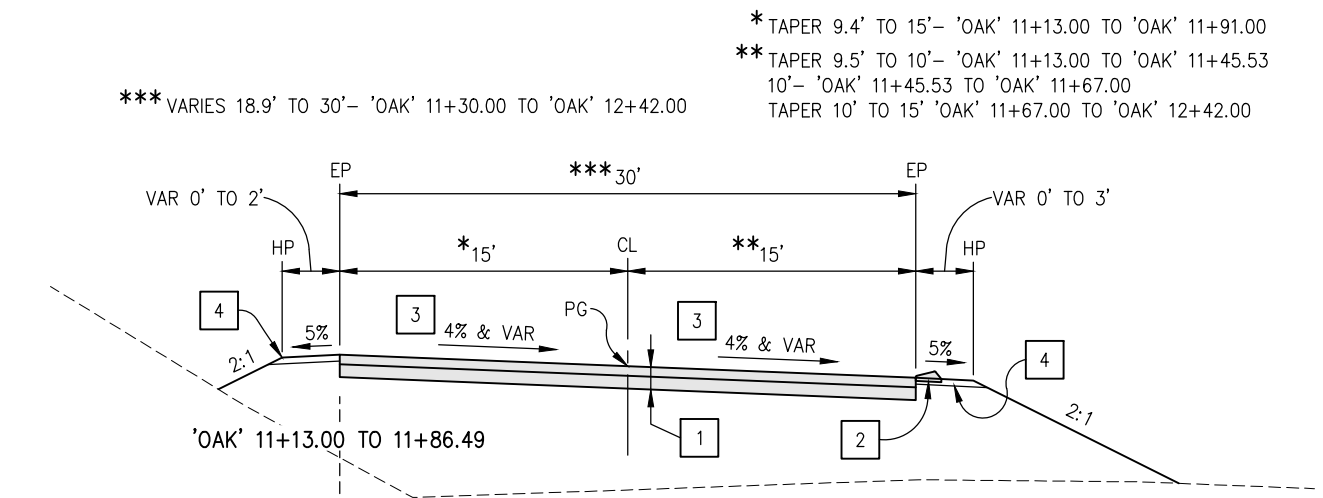
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 FOR REDUCED PLANS



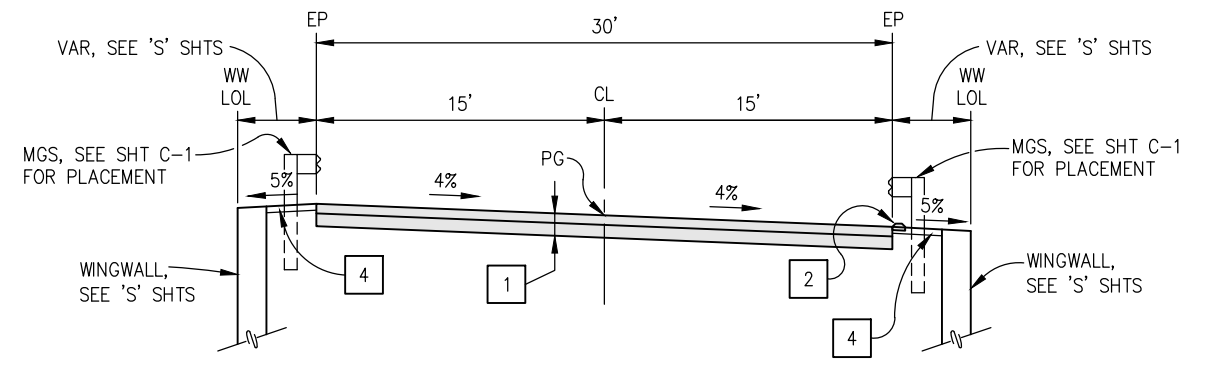
'OAK' 13+65.00 TO 'OAK' 14+65.09



'OAK' 15+70.25 TO 'OAK' 19+31.00

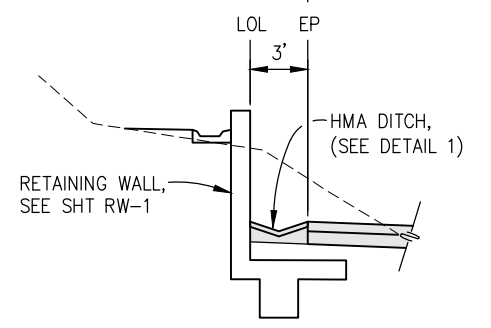


'OAK' 11+13.00 TO 'OAK' 13+65.00



'OAK' 14+65.09 TO 'OAK' 15+70.25

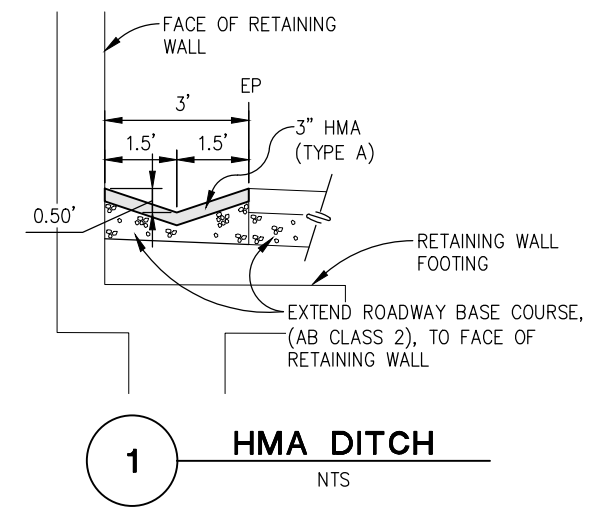
(SEE 'S' SHOTS FOR BRIDGE DECK AND WINGWALLS THROUGH THIS REGION)



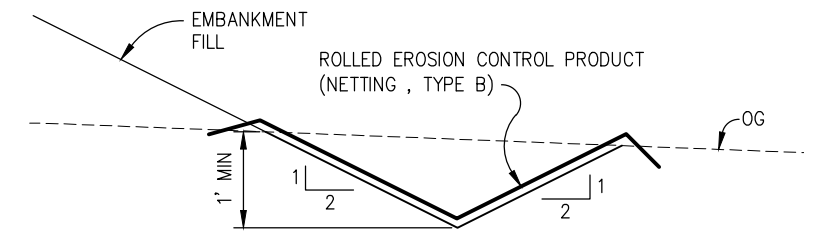
'OAK' 11+86.49 TO 13+65.00

CONSTRUCTION NOTES:

- 1 — 6" HMA (TYPE A)
8" AB (CLASS 2)
- 2 — HMA DIKE, TYPE AND LIMITS VARY, SEE 'L' SHEETS
- 3 — CROSS SLOPE VARIES, SEE SHT SE-1 FOR SUPER ELEVATION DIAGRAM
- 4 — 4" SHOULDER BACKING, LIMITS VARY, SEE SHT 'L' SHOTS



1 HMA DITCH
NTS



2 V-DITCH
NTS

**TYPICAL SECTIONS
SCALE : NONE**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: ####	

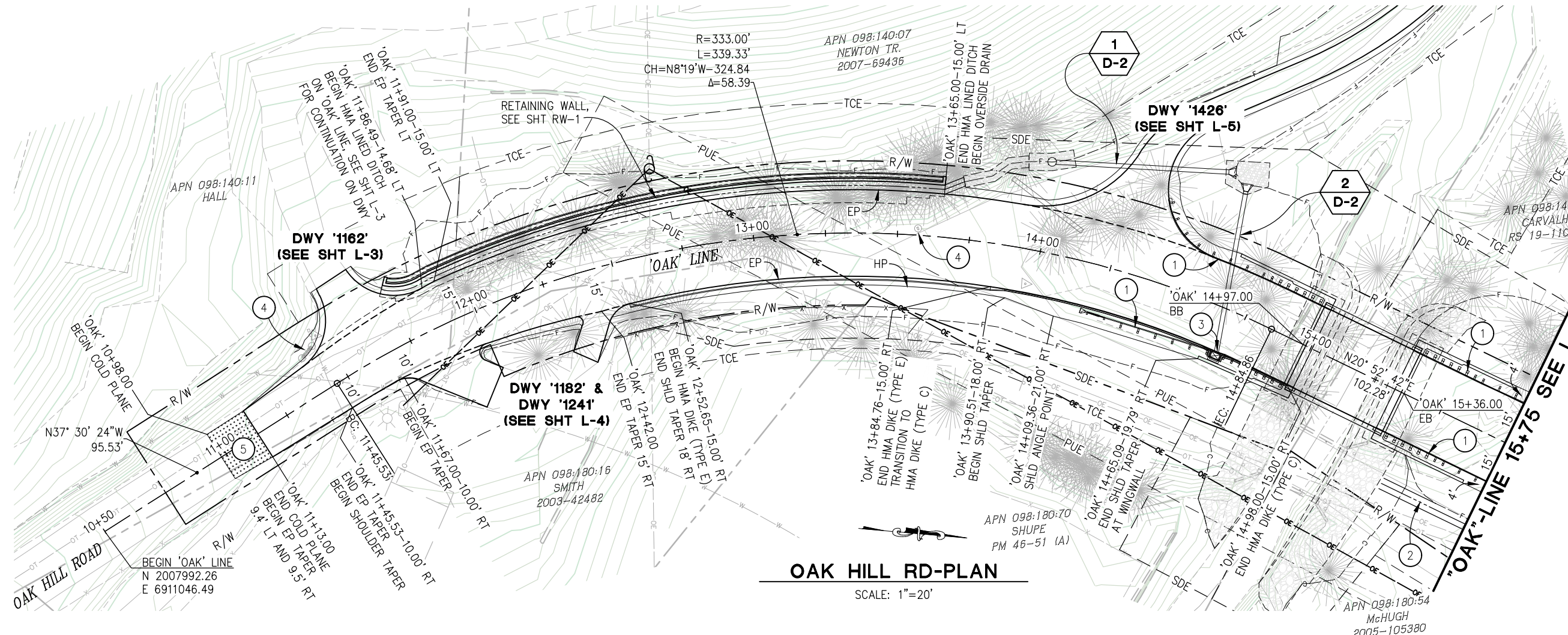


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE**

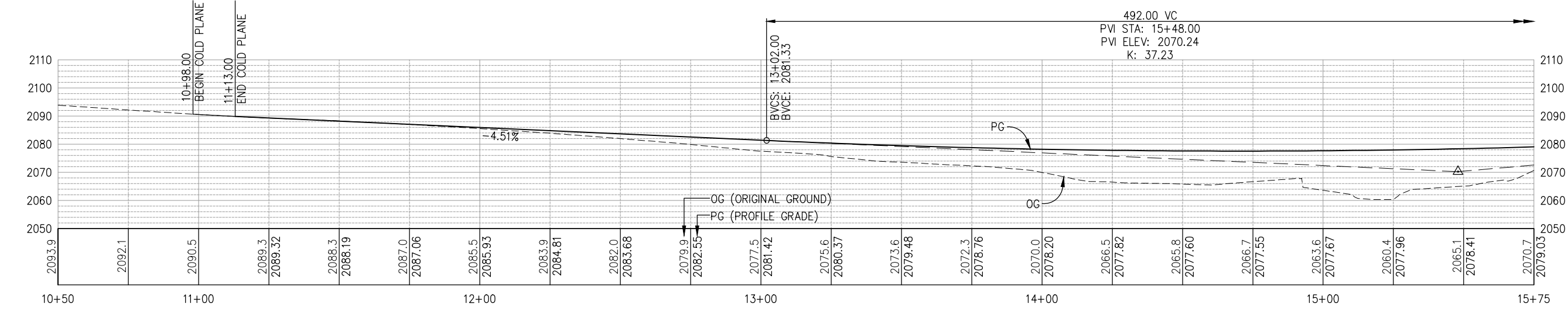
SHEET	X-1
4 OF 45	
W.O. No.	77134

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 FOR REDUCED PLANS
 REVISION



- CONSTRUCTION NOTES:**
- ① — GUARDRAIL, SEE TO SHT C-2
 - ② — TOE OF SLOPE DITCH, REFER TO TYPICAL SECTIONS ON SHT X-1
 - ③ — PROVIDE OPENING IN HMA DIKE AND FORM AROUND DI, SEE DETAIL ON SHT C-1
 - ④ — TEMPORARILY RELOCATE MAILBOXES TO FACILITATE CONSTRUCTION. MAILBOXES MUST BE ACCESSIBLE FOR DELIVERY AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RE-INSTALLED AFTER CONSTRUCTION IS COMPLETED
 - ⑤ — COLD PLANE (CONFORM GRIND), SEE DETAIL SHT C-1

- GENERAL NOTES:**
1. SEE SHT SE-1 FOR SUPERELEVATION DIAGRAM
- LEGEND:**
- ESA —
 - TEMPORARY HIGH VISIBILITY FENCE



OAK HILL RD-PROFILE
SCALE: 1"=20' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

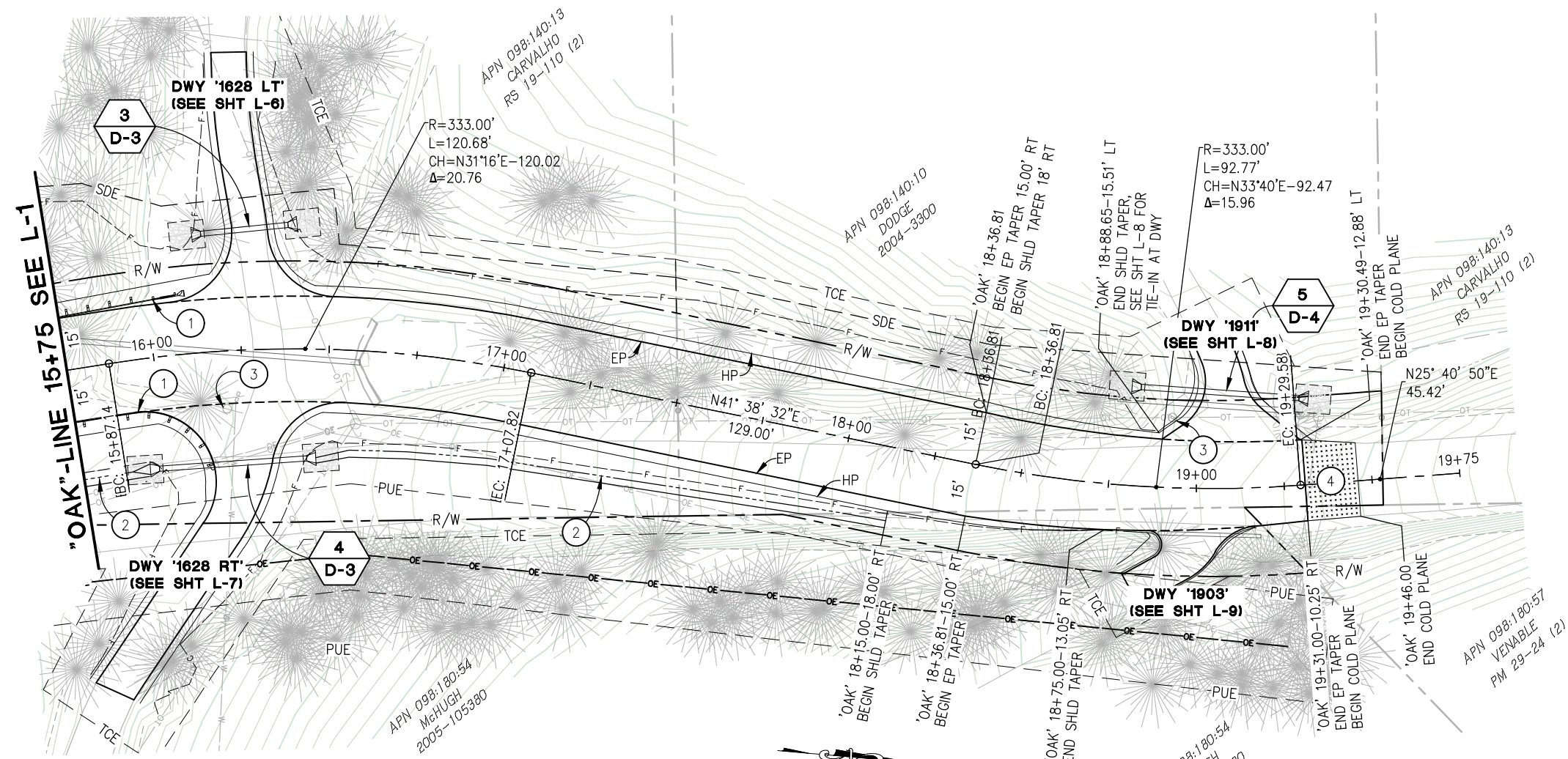


LAYOUT
SCALE : AS SHOWN

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

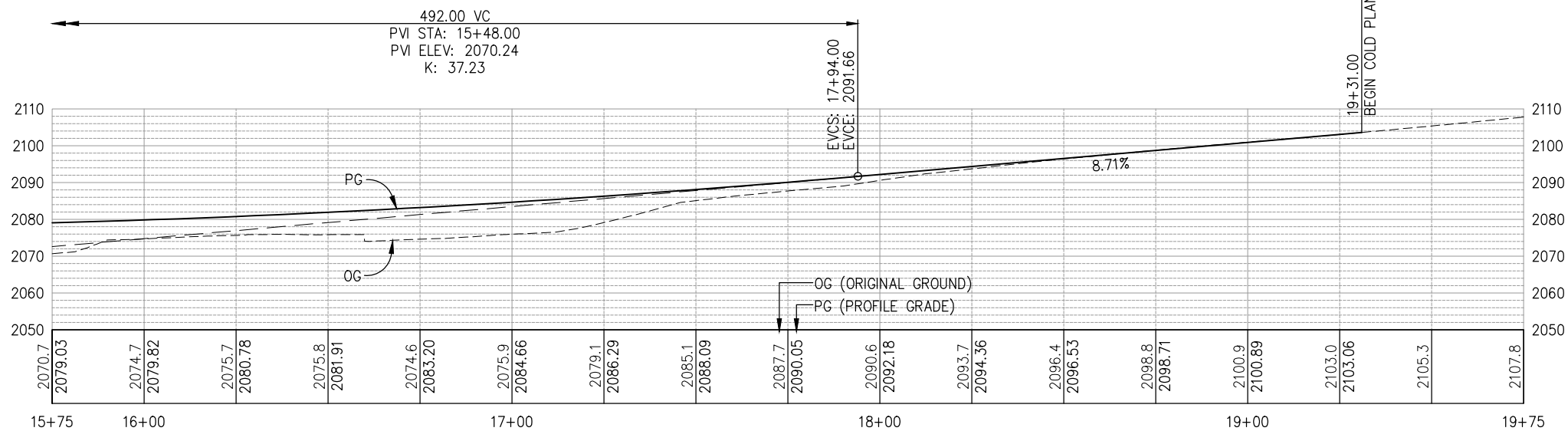
SHEET
L-1
 5 OF 45
 W.O. No. **77134**

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 FOR REDUCED PLANS
 REVISION



OAK HILL RD-PLAN

SCALE: 1"=20'



OAK HILL RD-PROFILE

SCALE: 1"=20' H,V

CONSTRUCTION NOTES:

- 1 — GUARDRAIL, SEE TO SHT C-2
- 2 — TOE OF SLOPE DITCH, REFER TO TYPICAL SECTIONS ON SHT X-1
- 3 — TEMPORARILY RELOCATE MAILBOXES TO FACILITATE CONSTRUCTION. MAILBOXES MUST BE ACCESSIBLE FOR DELIVERY AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RE-INSTALLED AFTER CONSTRUCTION IS COMPLETED
- 4 — COLD PLANE (CONFORM GRIND), SEE DETAIL SHT C-1

GENERAL NOTES:

1. SEE SHT SE-1 FOR SUPERELEVATION DIAGRAM

LAYOUT
 SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031



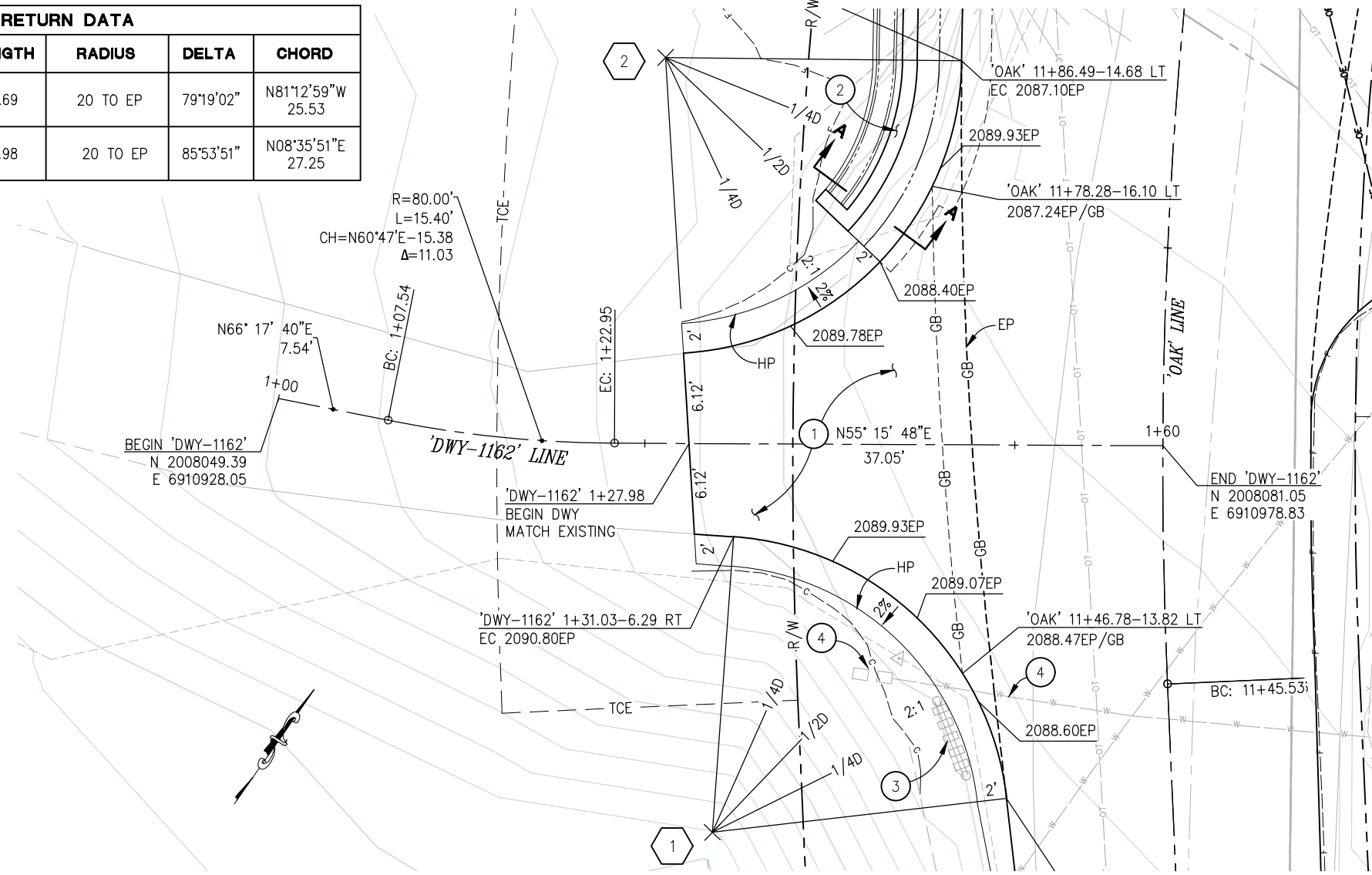
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET
L-2
 6 OF 45
 W.O. No. **77134**

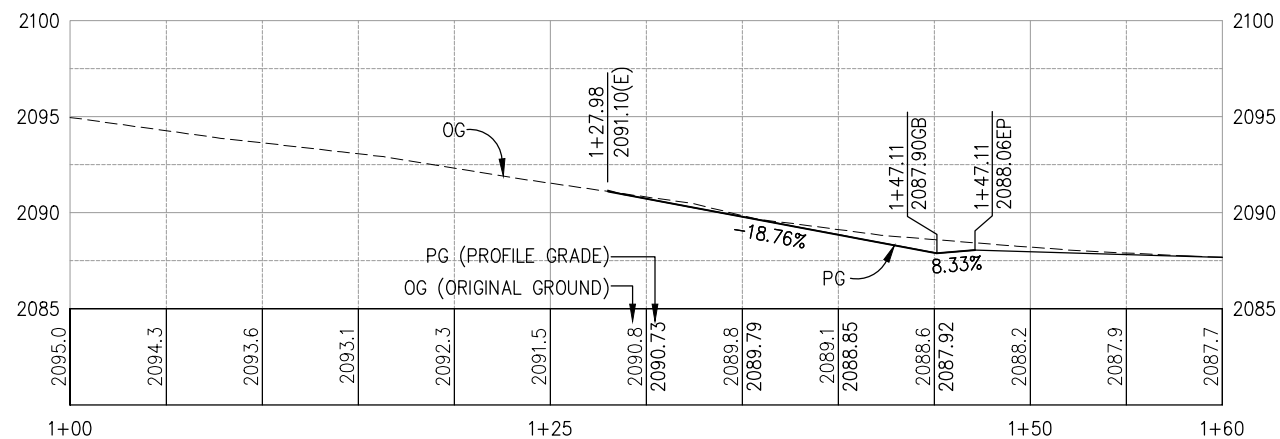
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 FOR REDUCED PLANS
 REVISION

DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 11+36.87-31.16 LT 'DWY-1162' 1+29.69-26.24 Rt	27.69	20 TO EP	79°19'02"	N81°12'59"W 25.53
2	'OAK' 11+85.26-34.64 LT 'DWY-1162' 1+26.29-26.07 LT	29.98	20 TO EP	85°53'51"	N08°35'51"E 27.25



DRIVEWAY '1162'-PLAN

SCALE: 1"=5'

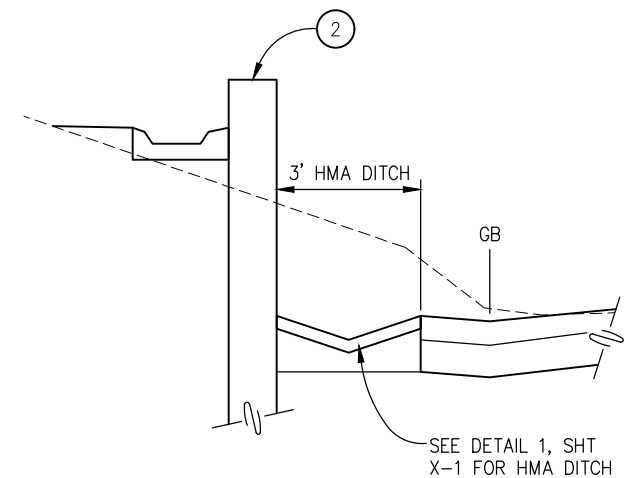


DRIVEWAY '1162'-PROFILE

SCALE: 1"=5' H,V

CONSTRUCTION NOTES:

- ① — 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)
- ② — RETAINING WALL, SEE SHT RW-1
- ③ — REMOVE MAILBOXES TO FACILITATE CONSTRUCTION AND REPLACE IN SAME LOCATION. MAILBOXES MUST BE ACCESSIBLE FOR DELIVERY AT ALL TIMES DURING CONSTRUCTION
- ④ — WATER SERVICE — ADJUST AS NECESSARY TO FACILITATE CONSTRUCTION AND RESET WATER SERVICE BOXES IN SAME GENERAL LOCATION



SECTION A-A

NTS

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031



**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

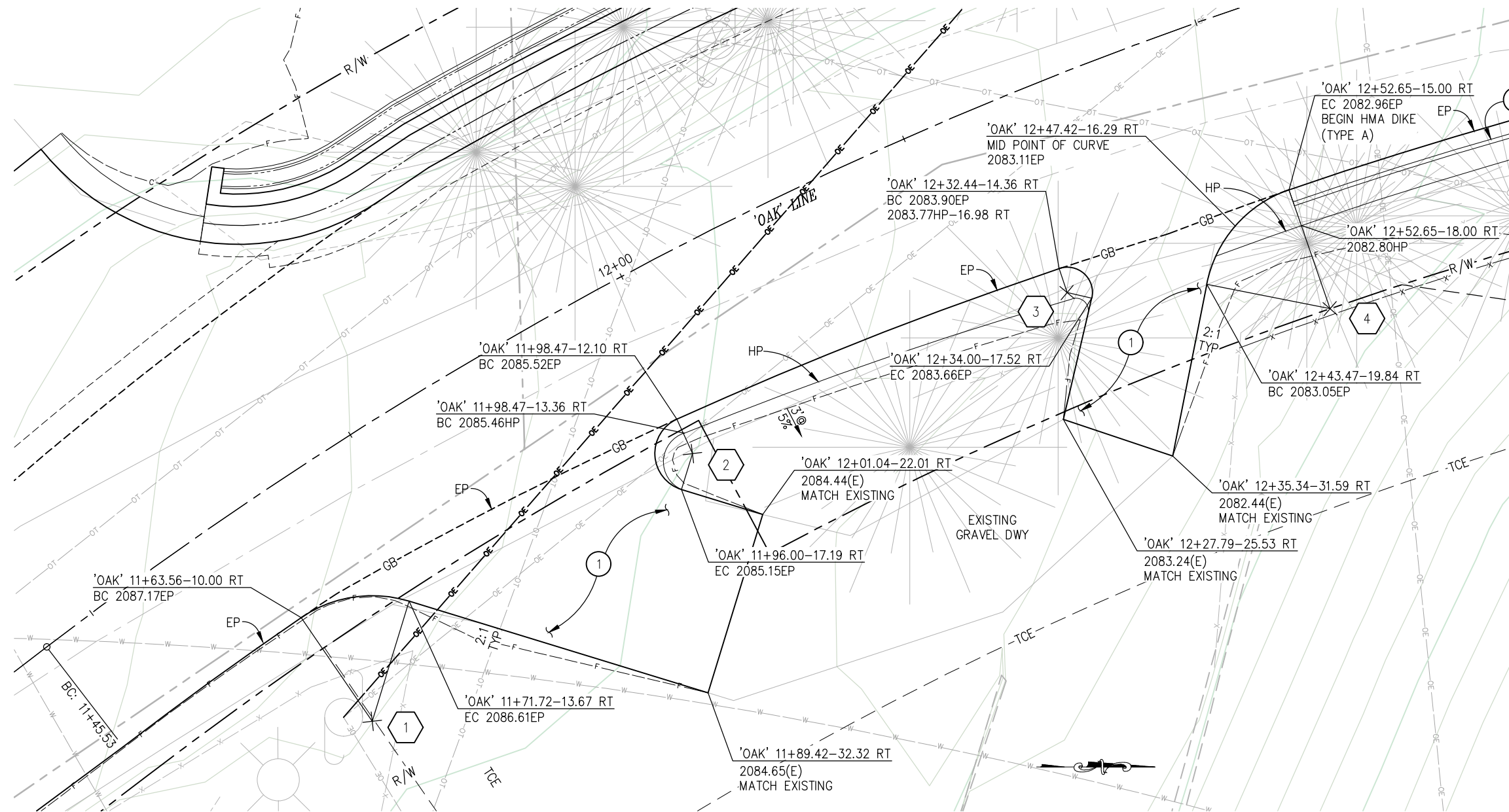
**OAK HILL RD AT SQUAW HOLLOW
 CREEK BRIDGE**

**LAYOUT
 SCALE : AS SHOWN**

SHEET
L-3
 7 OF 45
 W.O. No. **77134**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION

REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 11+63.56-20.00 RT	8.98	10 TO EP	51°27'10"	S08°40'42"E 8.68
2	'OAK' 11+98.26-15.09 RT	7.25	3 TO EP	138°30'34"	N86°18'10"E 5.61
3	'OAK' 12+32.29-16.36 RT	4.25	2 TO EP	121°42'10"	S42°16'57"W 3.49
4	'OAK' 12+52.65-25.00 RT	10.42	10 TO EP	59°42'31"	S48°55'46"E 9.96



CONSTRUCTION NOTES:

- ① — 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)
- ② — HMA DIKE (TYPE E), SEE SHT L-1

DRIVEWAYS AT 11+82 RT & 12+41 RT

SCALE: 1"=5'

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: ZO
DRAWN: SGM

CHECKED: CG
DATE: 02/03/23

ROAD NUMBER: 031



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

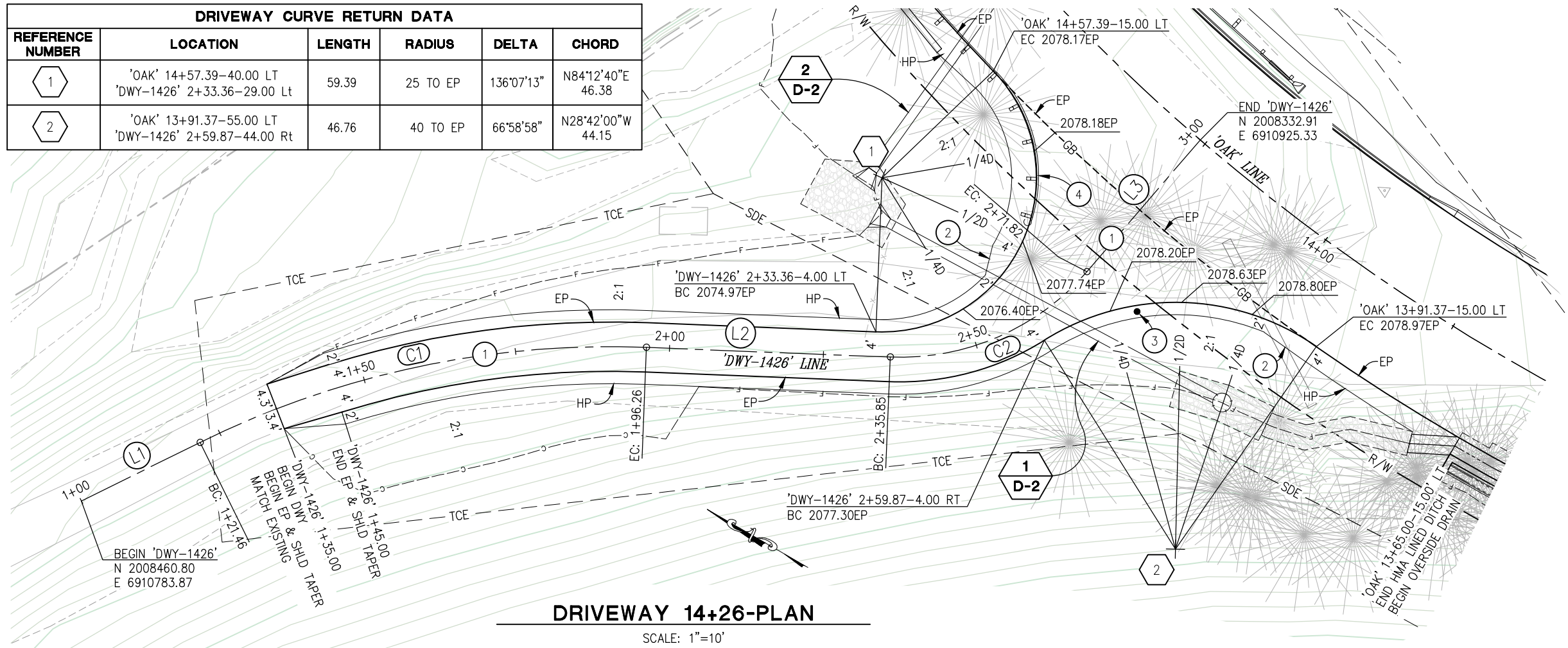
**OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE**

**LAYOUT
SCALE : AS SHOWN**

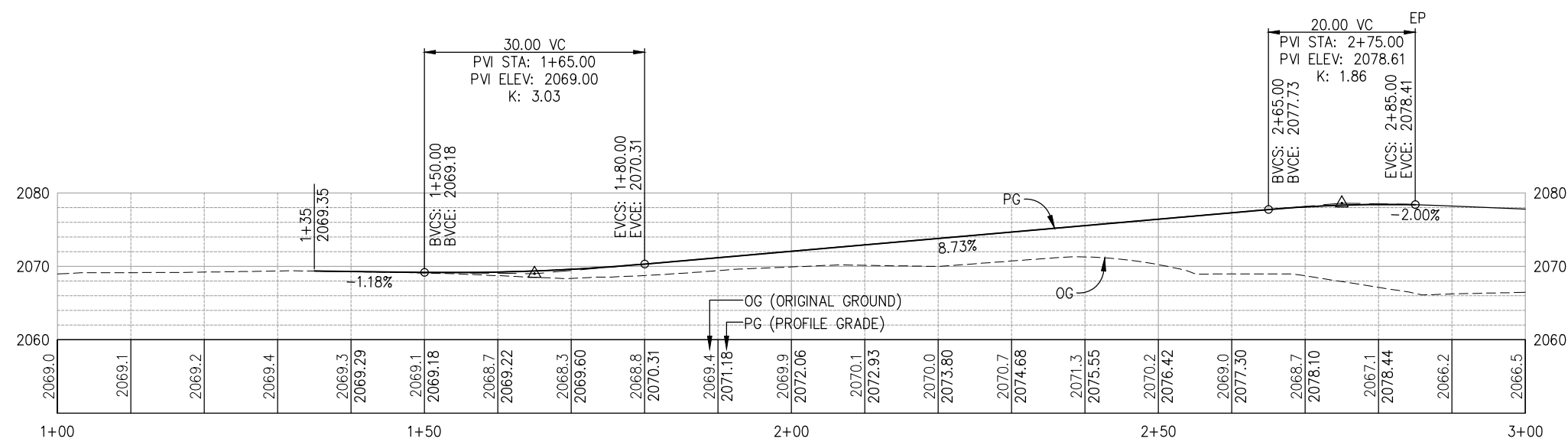
SHEET
L-4
8 OF 45
W.O. No. **77134**

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 FOR REDUCED PLANS
 REVISION

DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 14+57.39-40.00 LT 'DWY-1426' 2+33.36-29.00 Lt	59.39	25 TO EP	136°07'13"	N84°12'40"E 46.38
2	'OAK' 13+91.37-55.00 LT 'DWY-1426' 2+59.87-44.00 Rt	46.76	40 TO EP	66°58'58"	N28°42'00"W 44.15



- CONSTRUCTION NOTES:**
- 1 — 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)
 - 2 — TAPER SHOULDER WIDTH FROM 2' TO 4'
 - 3 — RE-INSTALL MAILBOX FOLLOWING COMPLETION OF CONSTRUCTION
 - 4 — MGS, SEE SHT C-2



'DWY-1426'				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	21.46		S 56° 17' 59" E	
C1	74.80	150.00	S 42° 00' 51" E - 74.03	28° 34' 15"
L2	39.59		S 27° 43' 44" E	
C2	35.97	40.00	S 53° 29' 21" E - 34.77	51° 31' 15"
L3	28.18		S 79° 14' 58" E	

DRIVEWAY 14+26-PROFILE
SCALE: 1"=10' H,V

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031

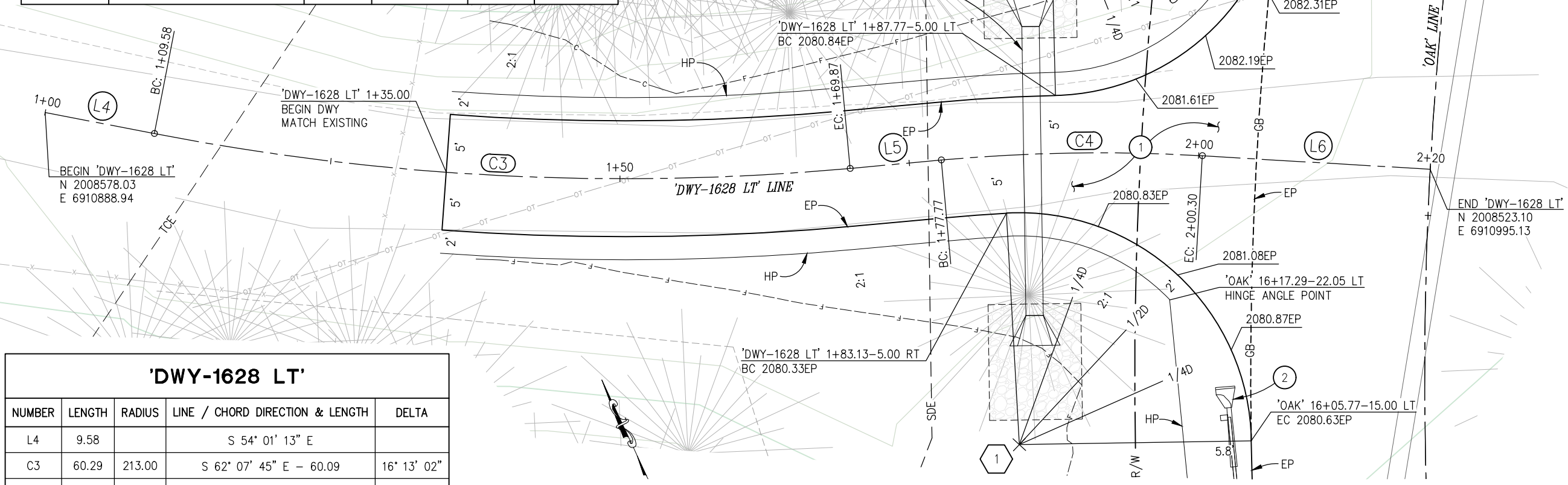


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

LAYOUT
SCALE : AS SHOWN
OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE
 SHEET
L-5
 9 OF 45
 W.O. No. **77134**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION

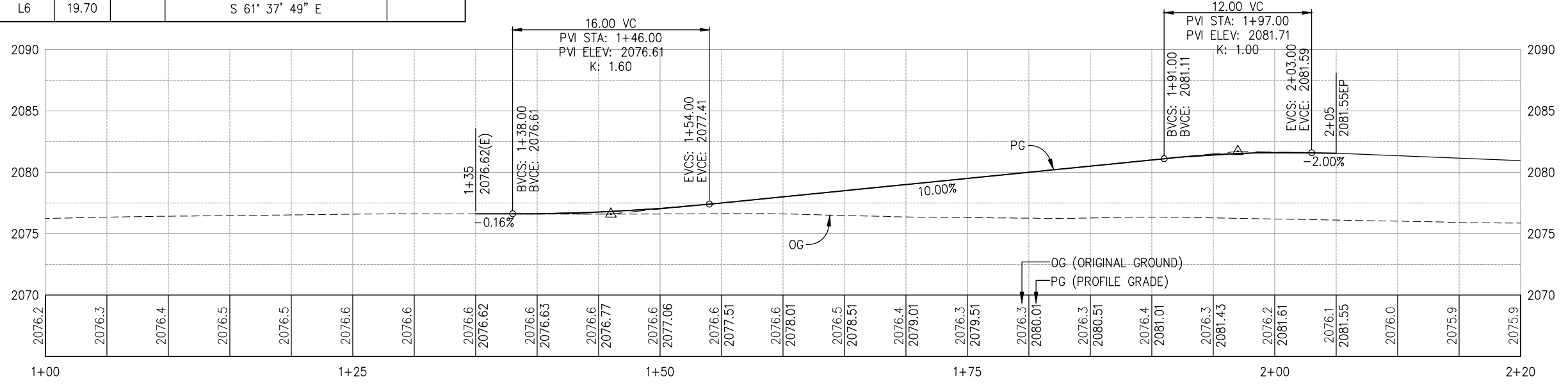
DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 16+51.24-35.00 LT 'DWY-1628 LT' 1+87.77-25.00 Lt	28.51	20 TO EP	81°40'26"	N72°44'41"E 26.16
2	'OAK' 16+05.77-35.00 LT 'DWY-1628 LT' 1+83.13-25.00 Rt	32.21	20 TO EP	92°16'29"	N22°03'10"W 28.84



- CONSTRUCTION NOTES:**
- ① — 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)
 - ② — MGS, TERMINAL SYSTEM, SEE SHT C-2

'DWY-1628 LT'				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L4	9.58		S 54° 01' 13" E	
C3	60.29	213.00	S 62° 07' 45" E - 60.09	16° 13' 02"
L5	7.90		S 70° 14' 16" E	
C4	22.53	150.00	S 65° 56' 02" E - 22.51	8° 36' 27"
L6	19.70		S 61° 37' 49" E	

DRIVEWAY 16+28 LT-PLAN
SCALE: 1"=5'



DRIVEWAY 16+28 LT-PROFILE
SCALE: 1"=5' H,V

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: ZO
 CHECKED: CG
 ROAD NUMBER: 031

DRAWN: SGM
 DATE: 02/03/23



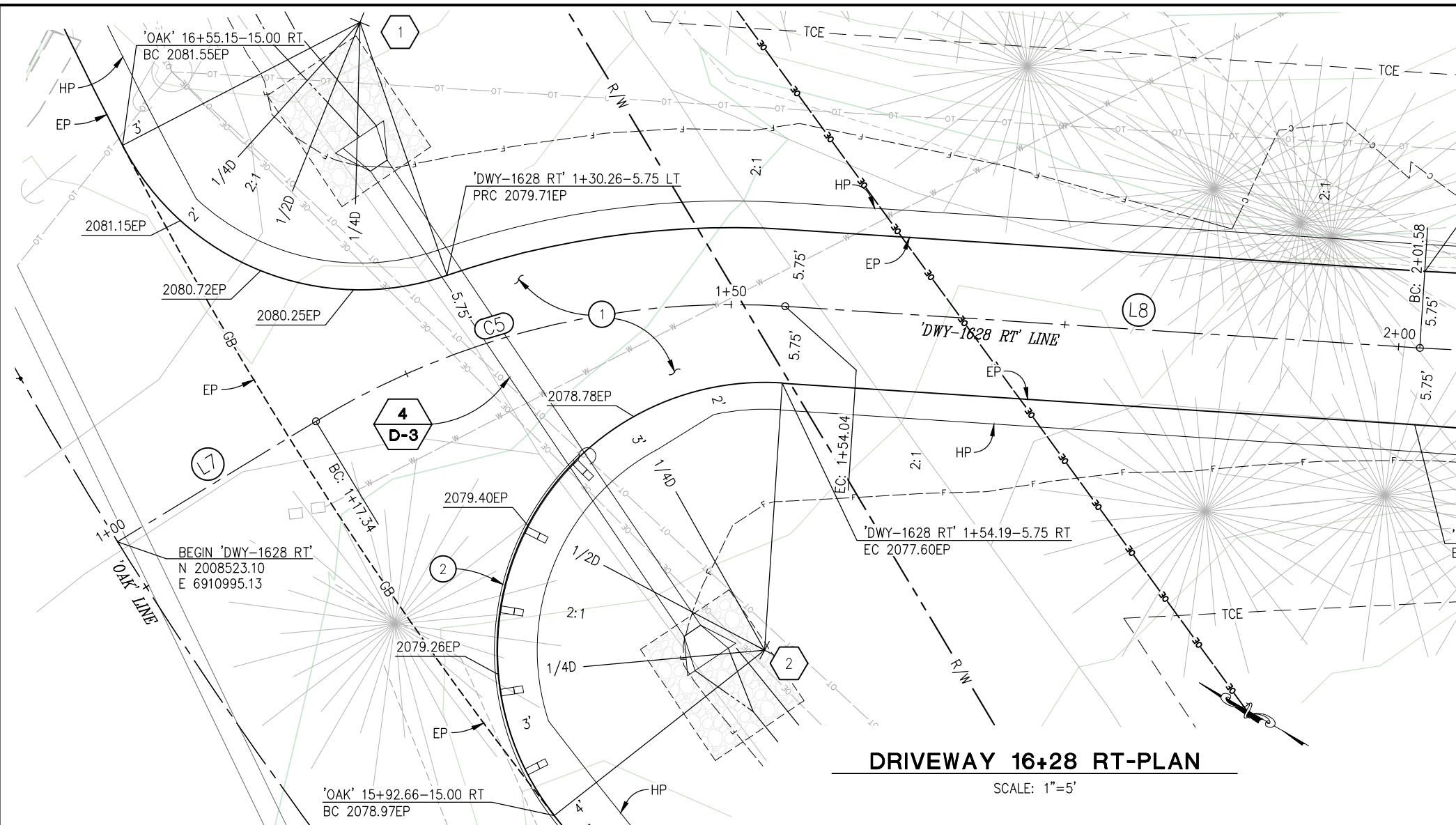
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

LAYOUT
SCALE : AS SHOWN

SHEET
L-6
 10 OF 45
 W.O. No. **77134**

ORIGINAL SCALE IS IN INCHES
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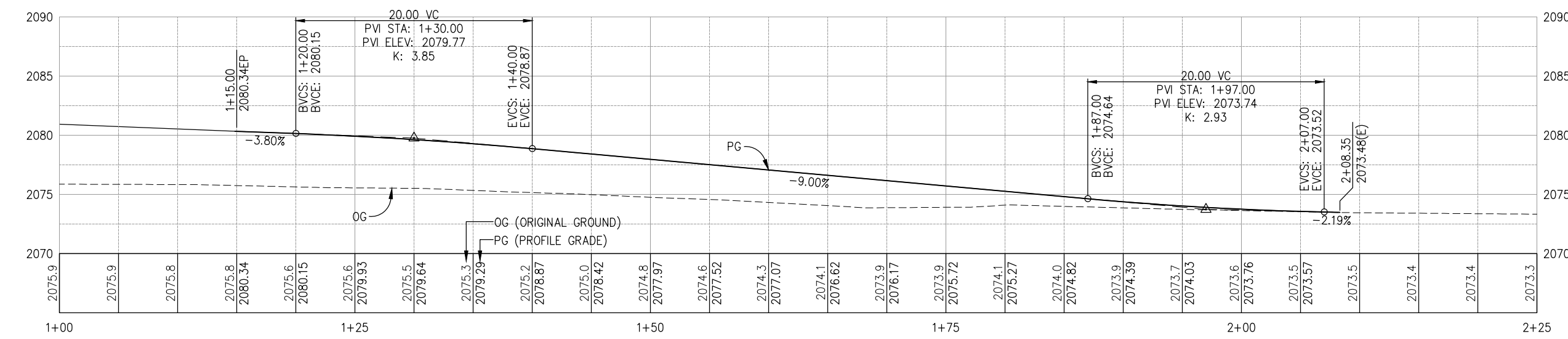


DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 16+55.15-35.00 RT 'DWY-1628 RT' 1+30.26-25.75 Lt	28.46	20 TO EP	81°31'56"	N08°11'10"W 26.12
2	'OAK' 15+92.66-35.00 LT 'DWY-1628 RT' 1+54.19-25.75 Rt	46.05	20 TO EP	131°55'46"	N87°47'37"E 36.53

- CONSTRUCTION NOTES:**
- ① — 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)
 - ② — MGS, SEE SHT C-2

'DWY-1628 RT'				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L7	17.34		S 61° 17' 14" E	
C5	36.70	60.00	S 43° 45' 52" E — 36.13	35° 02' 44"
L8	47.54		S 26° 14' 30" E	
C6	23.42	110.00	S 32° 20' 25" E — 23.37	12° 11' 50"

DRIVEWAY 16+28 RT-PLAN
SCALE: 1"=5'



DRIVEWAY 16+28 RT-PROFILE
SCALE: 1"=5' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: _____

DESIGNED: ZO
DRAWN: SGM
CHECKED: CG
DATE: 02/03/23
ROAD NUMBER: 031

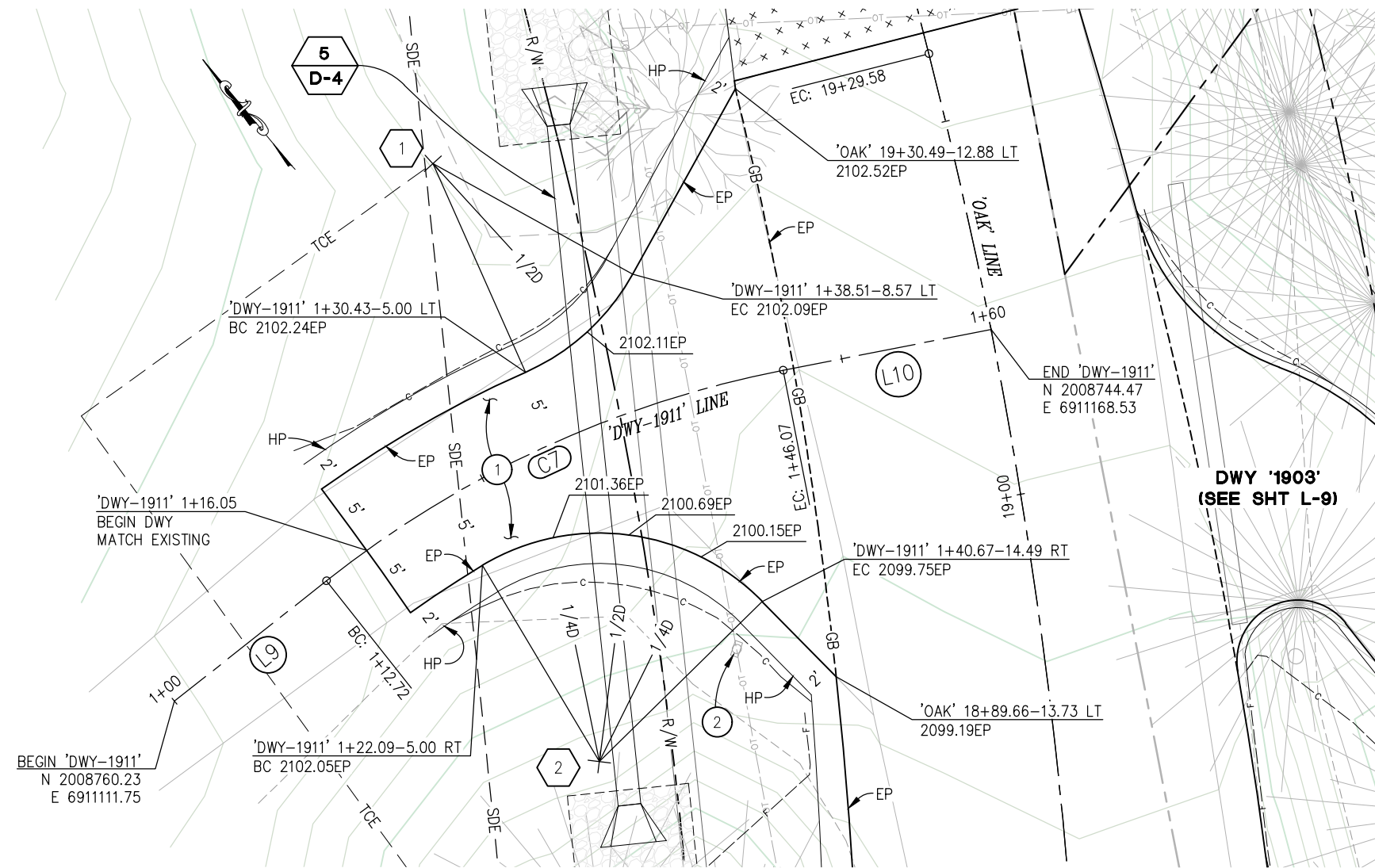


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE**

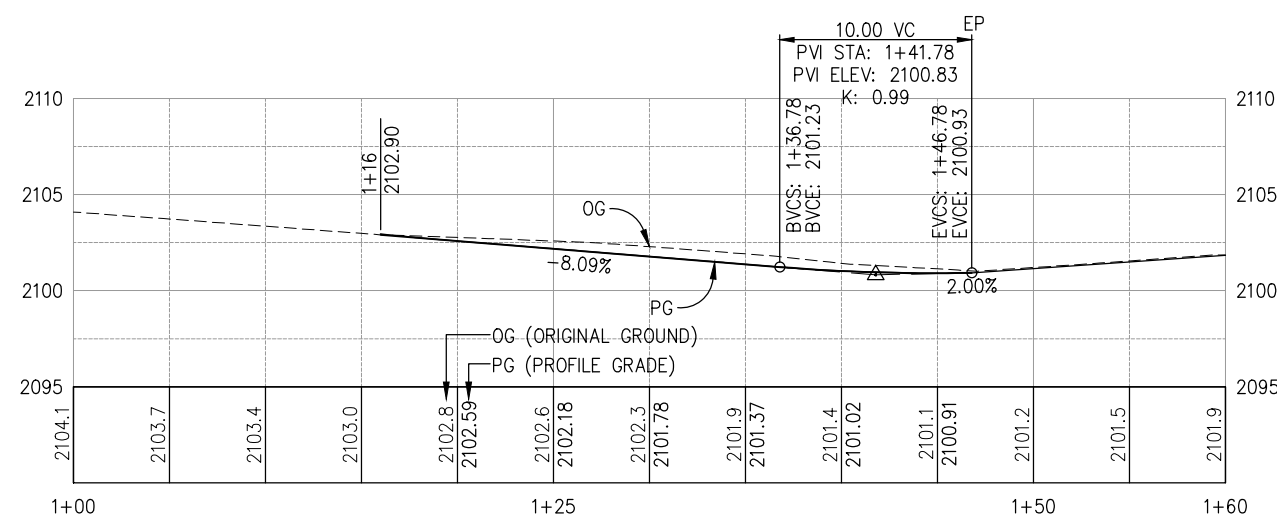
SHEET
L-7
11 OF 45
W.O. No. **77134**

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 FOR REDUCED PLANS
 REVISION



DRIVEWAY 19+11-PLAN

SCALE: 1"=5'



DRIVEWAY 19+11-PROFILE

SCALE: 1"=5' H,V

DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 19+30.63-33.35 LT 'DWY-1911' 1+30.43-20.00 Lt	9.72	15 TO EP	37°08'00"	N87°30'17"E 9.55
2	'OAK' 18+85.81-29.86 LT 'DWY-1911' 1+22.09-20.00 Rt	19.96	15 TO EP	76°14'06"	N42°38'21"W 18.52

'DWY-1911'				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L9	12.72		S 88° 25' 21" E	
C7	33.35	70.00	S 74° 46' 21" E - 33.04	27° 18' 01"
L10	13.93		S 61° 07' 21" E	

CONSTRUCTION NOTES:

- ① - 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)
- ② - TEMPORARILY RELOCATE MAILBOX TO FACILITATE CONSTRUCTION. REINSTALL FOLLOWING COMPLETION OF CONSTRUCTION

LAYOUT SCALE : AS SHOWN

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031

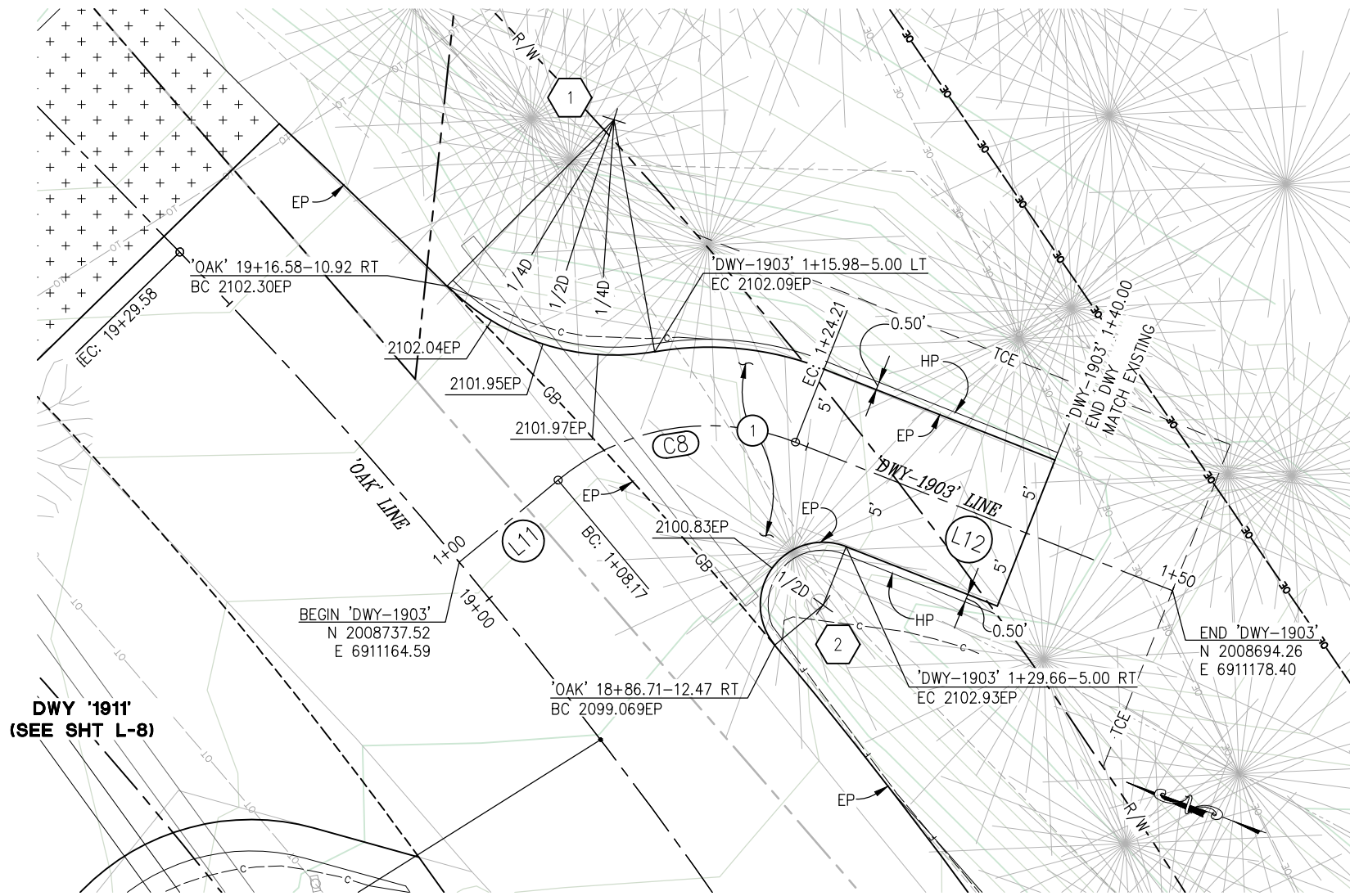


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
 CREEK BRIDGE

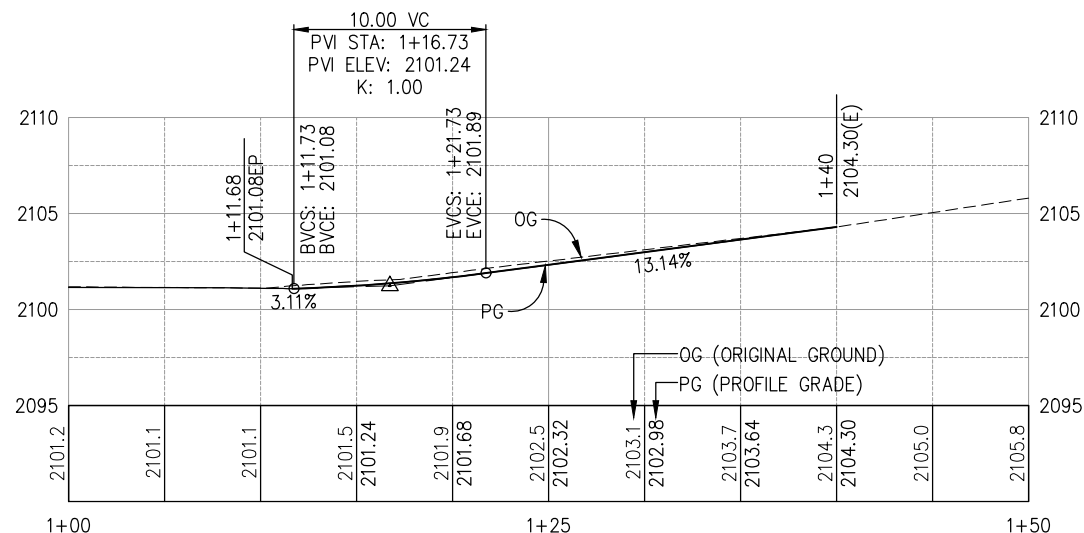
SHEET
L-8
 12 OF 45
 W.O. No. **77134**

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DRIVEWAY 19+03-PLAN

SCALE: 1"=5'



DRIVEWAY 19+03-PROFILE

SCALE: 1"=5' H,V

DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'OAK' 19+17.26-25.90 RT 'DWY-1903' 1+15.98-20.00 Lt	14.41	15 TO EP	55°02'18"	N08°11'10"W 26.12
2	'OAK' 18+86.90-16.46 RT 'DWY-1903' 1+29.66-9.00 Rt	10.56	4 TO EP	151°15'59"	N74°06'44"W 7.75

'DWY-1903'				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L11	8.17		S 59° 44' 46" E	
C8	16.04	15.00	S 29° 06' 45" E - 15.29	61° 16' 01"
L12	25.79		S 1° 31' 15" W	

CONSTRUCTION NOTES:

- ① — 2 1/2" HMA (TYPE A) OVER 4" AB (CLASS 2)

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: ZO
DRAWN: SGM

CHECKED: CG
DATE: 02/03/23

ROAD NUMBER: 031



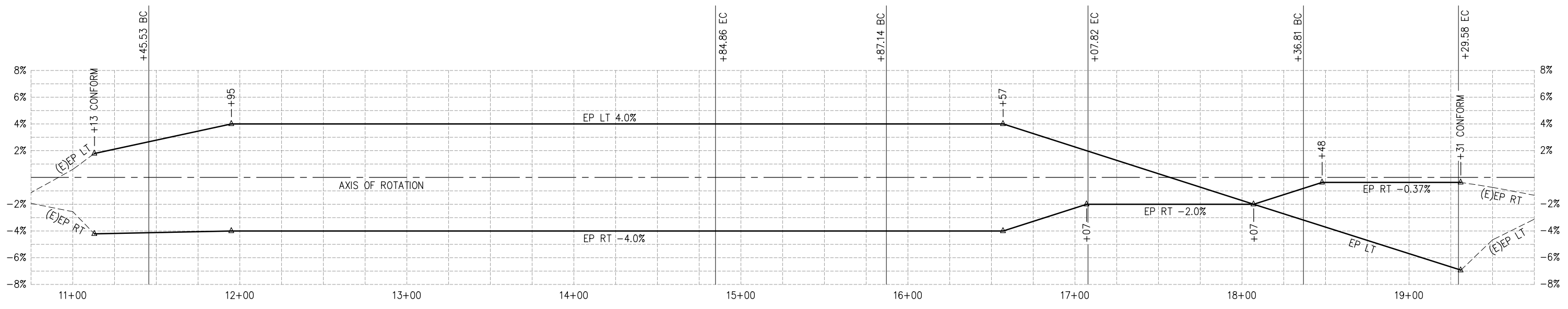
**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE**

LAYOUT
SCALE : AS SHOWN

SHEET
L-9
13 OF 45
W.O. No. **77134**

ORIGINAL SCALE IS IN INCHES
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SUPERELEVATION DIAGRAM
NTS

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	



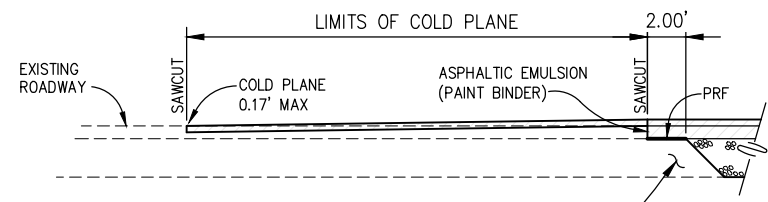
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SUPERELEVATION DIAGRAM
SCALE : AS SHOWN

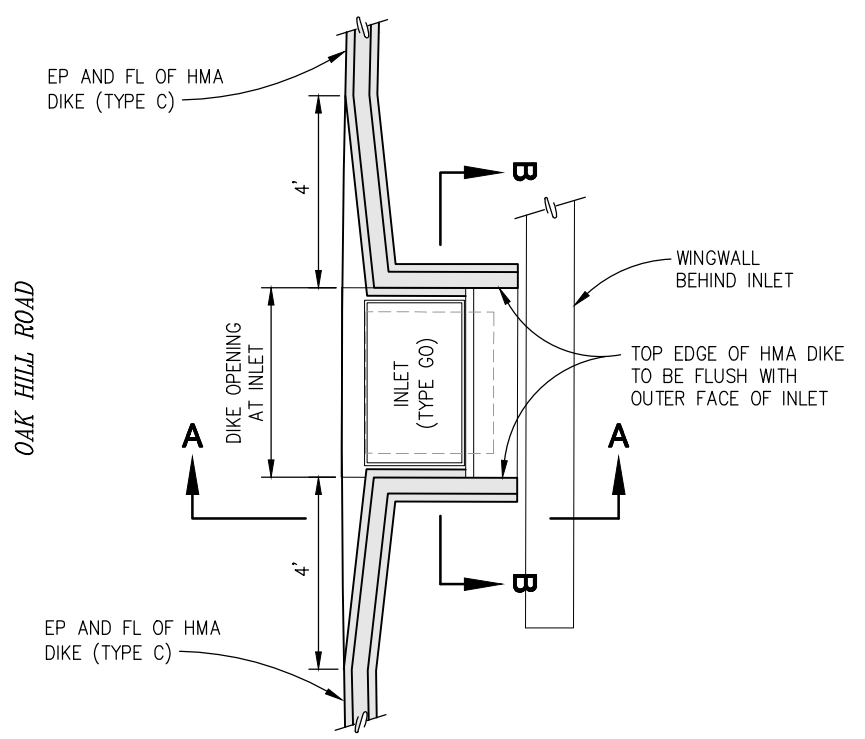
SHEET	SE-1
14 OF 45	
W.O. No.	77134

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 FOR REDUCED PLANS
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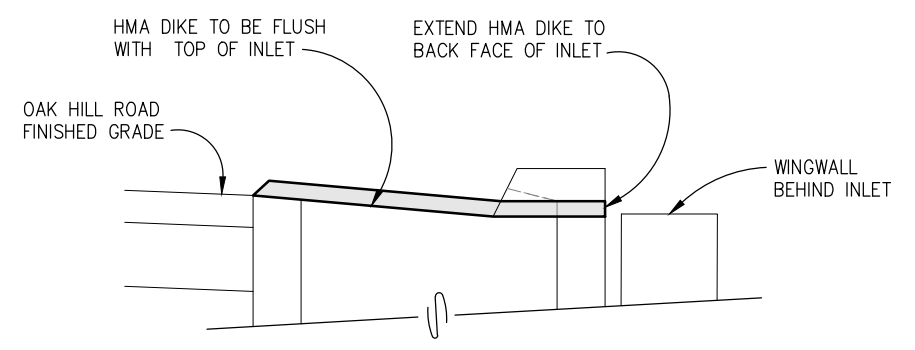


EXISTING AGGREGATE BASE TO BE PROTECTED AND REMAIN UNDISTURBED TO PREVENT LOSS OF DENSITY AND SUPPORT UNDER BITUMINOUS SURFACE

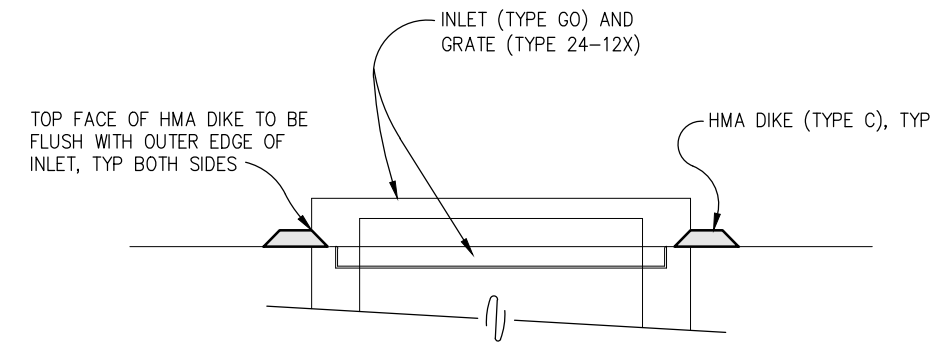
1 COLD PLANE DETAIL
NTS



2 HMA DIKE OPENING-PLAN
NTS



SECTION A-A
NTS



SECTION B-B
NTS

CONSTRUCTION DETAILS
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	

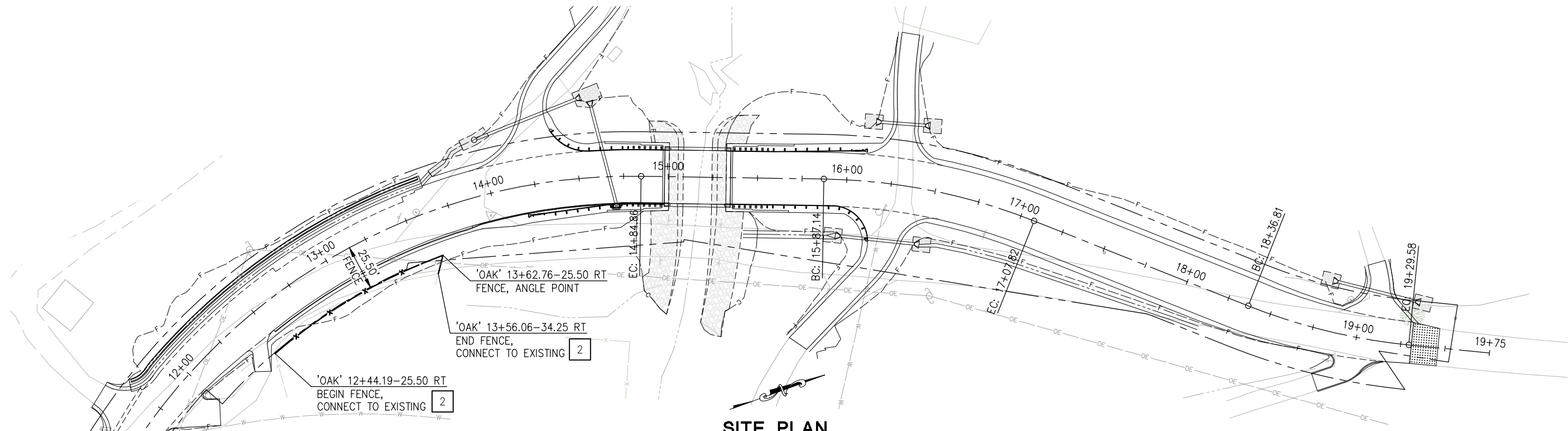


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

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W.O. No.	77134

ORIGINAL SCALE IS IN INCHES
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SITE PLAN
SCALE: 1"=30'

GUARDRAIL (MGS) GENERAL NOTES:

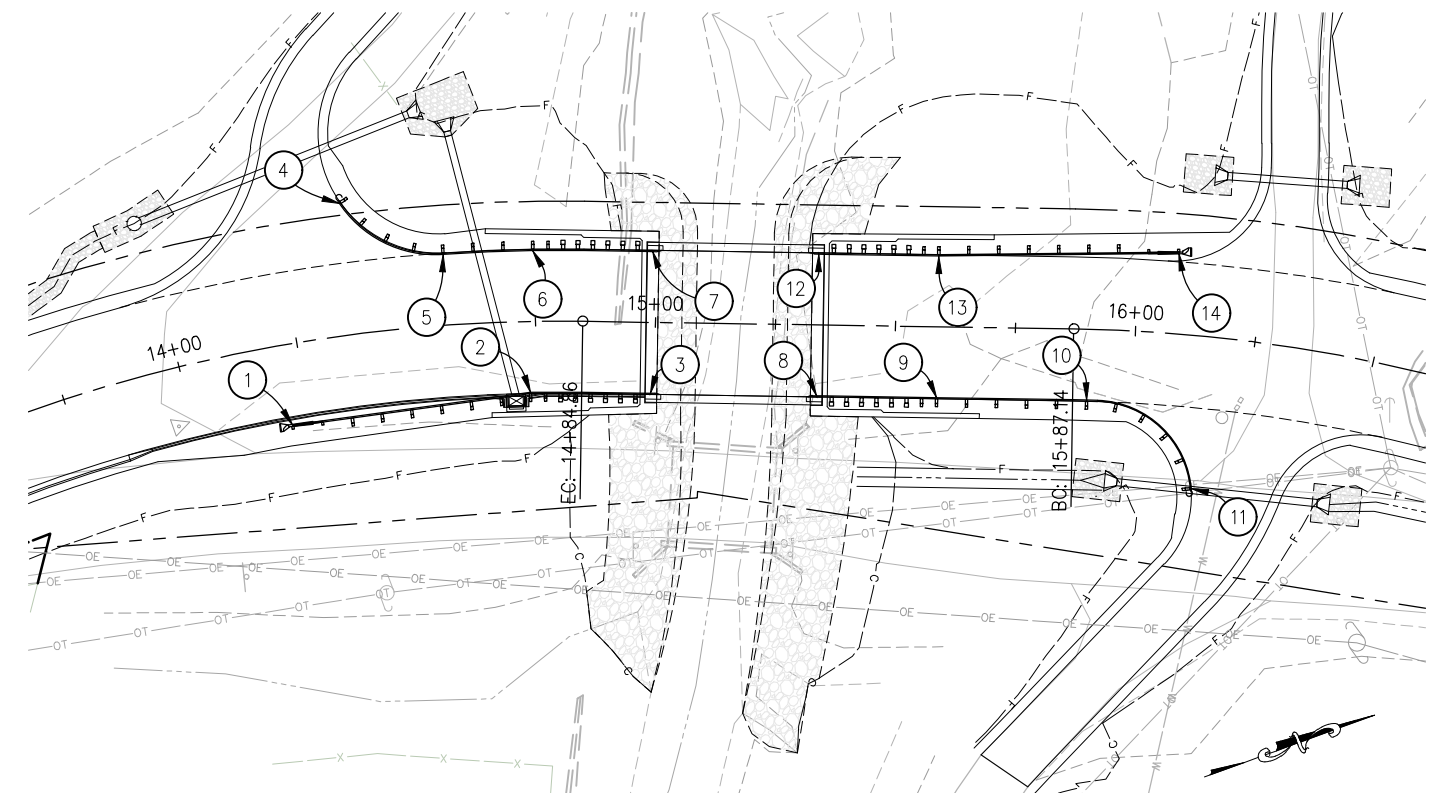
- STATIONS AND OFFSETS ARE TO CENTER OF POST AT OUTSIDE FACE OF RAIL ELEMENT
- APPLY STAIN TO GALVANIZED SURFACES OF ALL MGS (WOOD POST), TRANSITION RAILING (TYPE WB-31), AND TERMINAL SYSTEMS

GUARDRAIL (MGS) CONSTRUCTION NOTES:

- | | |
|---|--|
| ① — 'OAK' 14+21.18-16.75 RT
BEGIN FLARED TERMINAL SYSTEM | ⑧ — 'OAK' 15+33.79-14.75 RT
BEGIN TRANSITION RAILING |
| ② — 'OAK' 14+73.69-14.75 RT
END FLARED TERMINAL SYSTEM
BEGIN TRANSITION RAILING | ⑨ — 'OAK' 15+58.79-14.75 RT
END TRANSITION RAILING
BEGIN MGS |
| ③ — 'OAK' 14+99.21-14.75 RT
END TRANSITION RAILING | ⑩ — 'OAK' 15+90.18-14.75 RT
BEGIN CURVE (2 ELEMENTS,
SHOP BENT TO 20.25' RADIUS) |
| ④ — 'OAK' 14+37.49-27.47 LT
BEGIN MGS (2 ELEMENTS, SHOP BENT
TO 24' RADIUS) | ⑪ — 'OAK' 16+14.81-31.85 RT
END 20.25' RADIUS
END MGS |
| ⑤ — 'OAK' 14+56.77-14.75 LT
END 24' RADIUS, BEGIN STANDARD MGS | ⑫ — 'OAK' 15+33.79-14.75 LT
BEGIN TRANSITION RAILING |
| ⑥ — 'OAK' 14+74.68-14.75 LT
END MGS
BEGIN TRANSITION RAILING, TYPE WB-31 | ⑬ — 'OAK' 15+58.79-14.75 LT
END TRANSITION RAILING
BEGIN TERMINAL SYSTEM |
| ⑦ — 'B' 14+99.21-14.75 LT
END TRANSITION RAILING | ⑭ — 'OAK' 16+07.76-16.75 LT
END TERMINAL SYSTEM |

FENCE CONSTRUCTION NOTES:

- | |
|---|
| ① — FENCE: 6' HIGH WM WITH 4" X 4" PRESSURE TREATED POSTS, 8' MAX SPACING. (MATCH EXISTING) |
| ② — FENCE: TYPE WM, METAL POST, PER A86 |



GUARDRAIL PLACEMENT DETAIL
SCALE: 1"=20'

CONSTRUCTION DETAILS-GUARDRAIL AND FENCING PLAN
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	

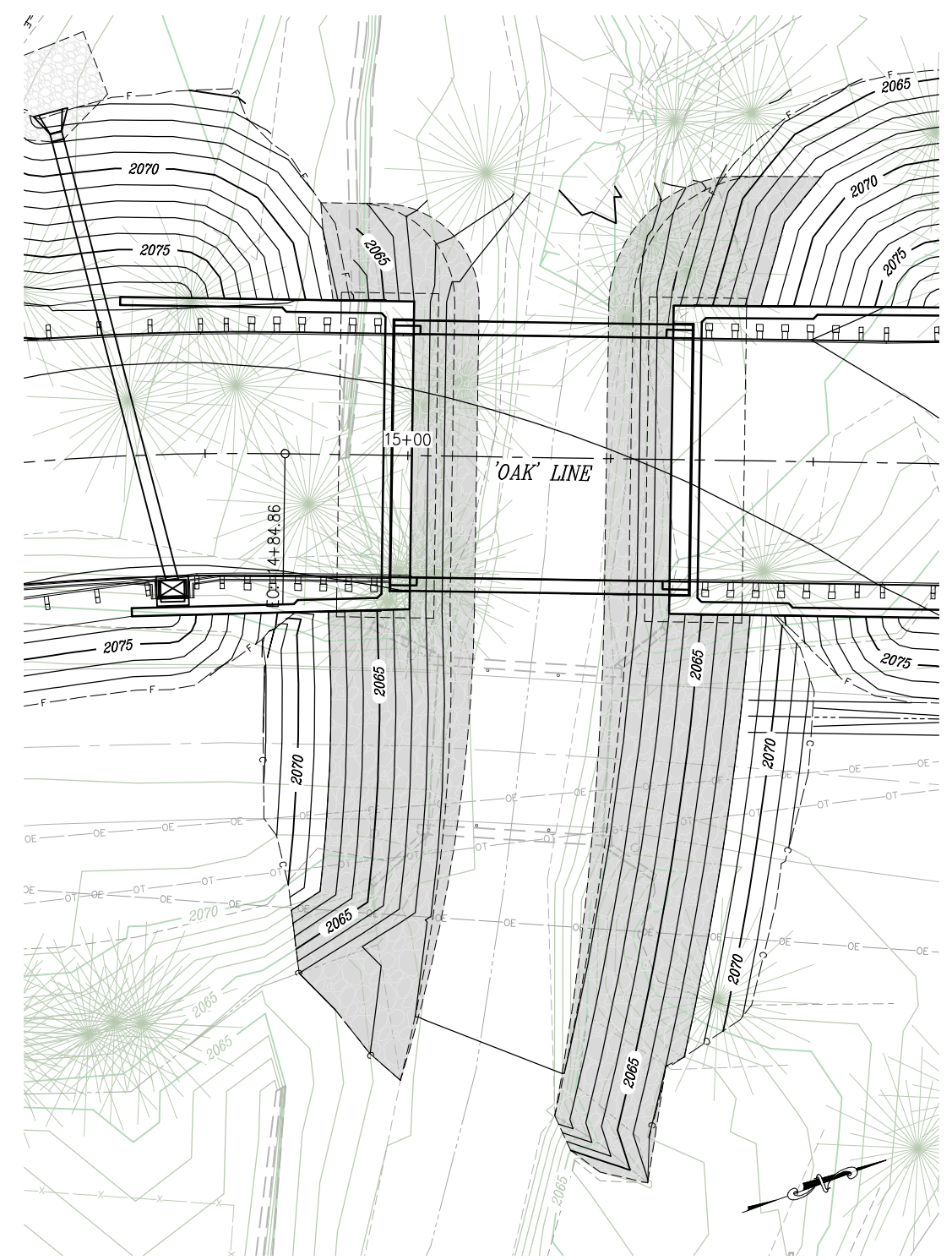
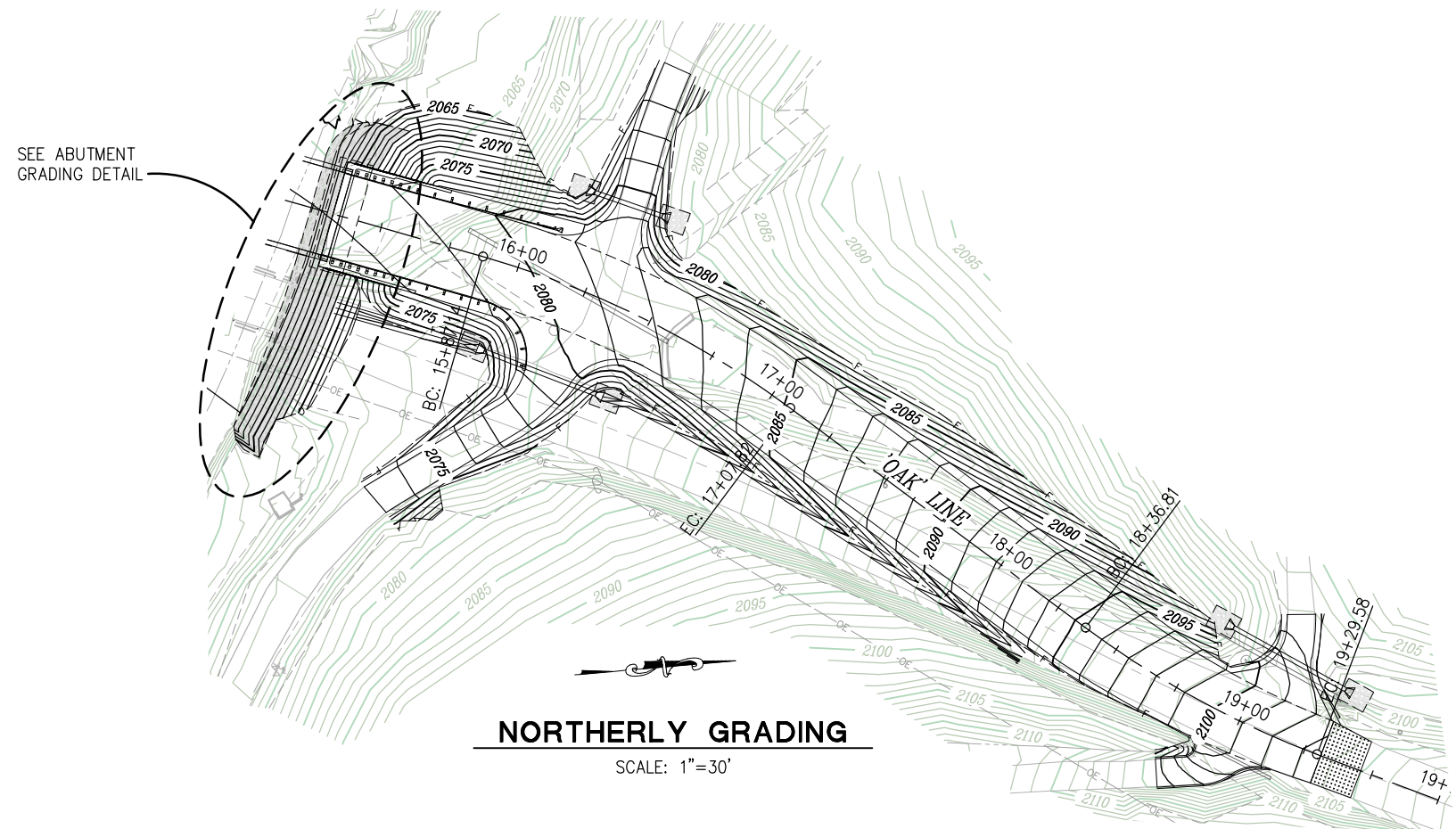
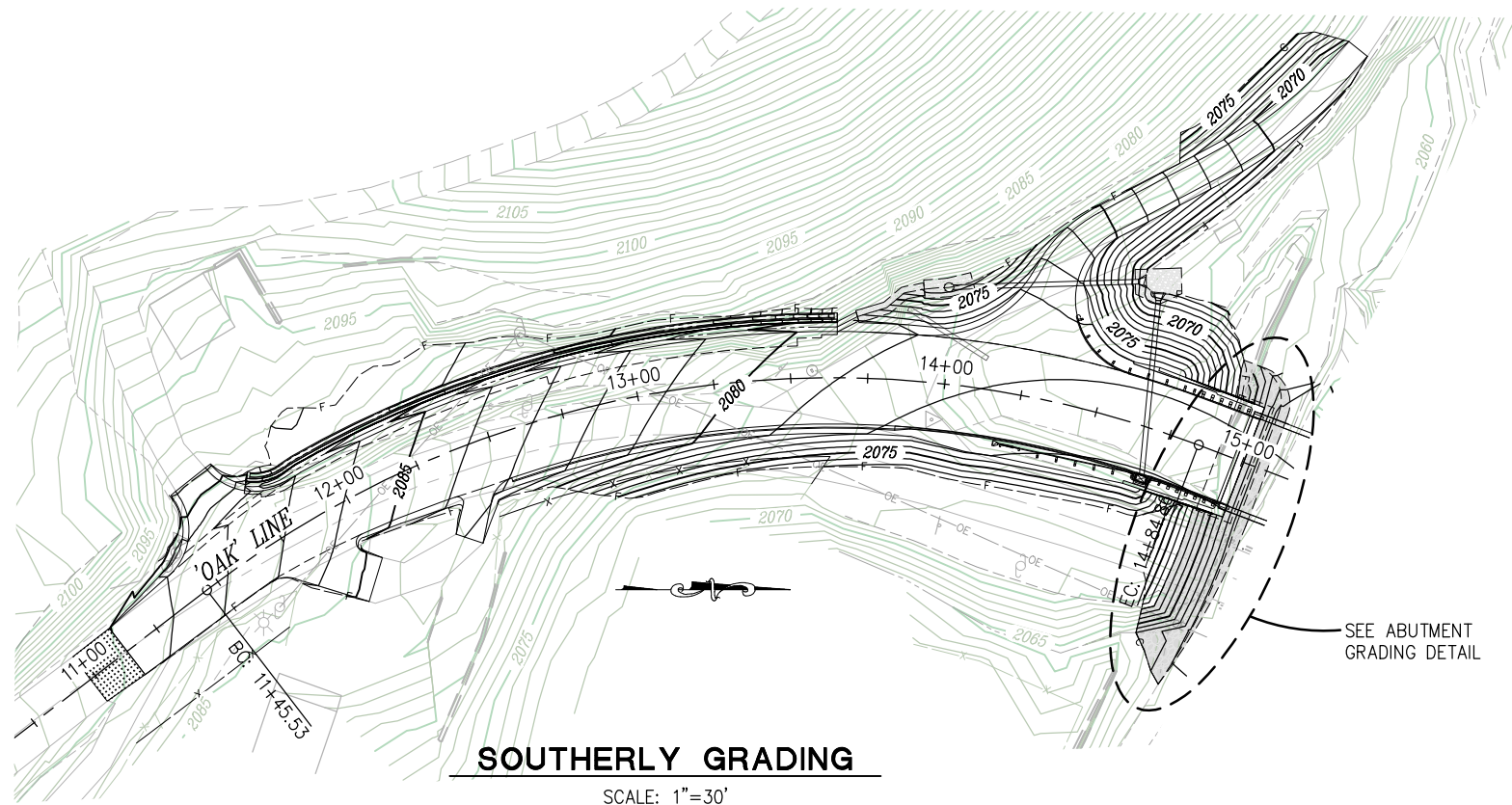


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET	C-2
16 OF 45	
W.O. No.	77134

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 REVISION



NOTE:
CONTOURS SHOWN THROUGH CREEK BED ARE AT
TOP OF ROCK SLOPE PROTECTION (RSP)

CONTOUR GRADING PLAN
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	

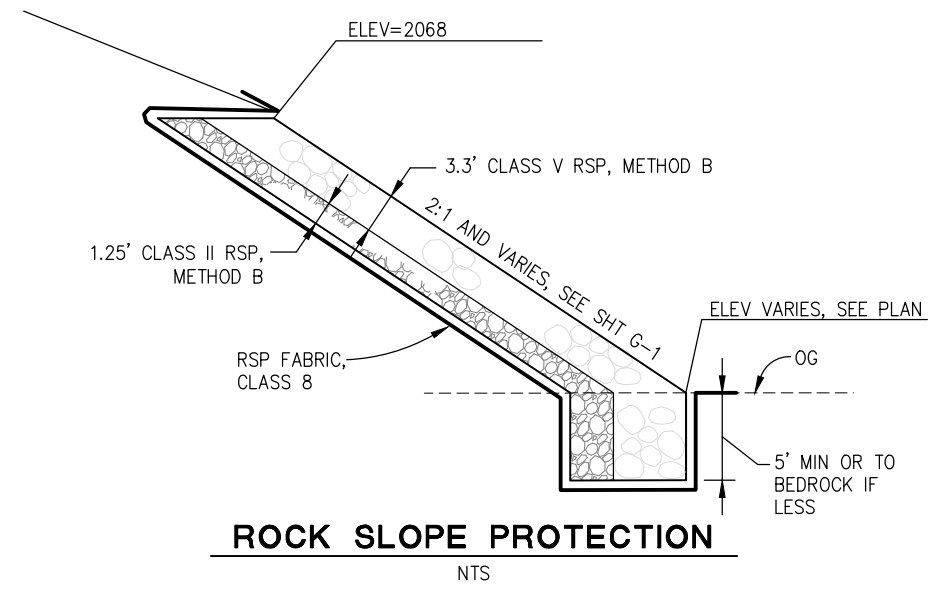
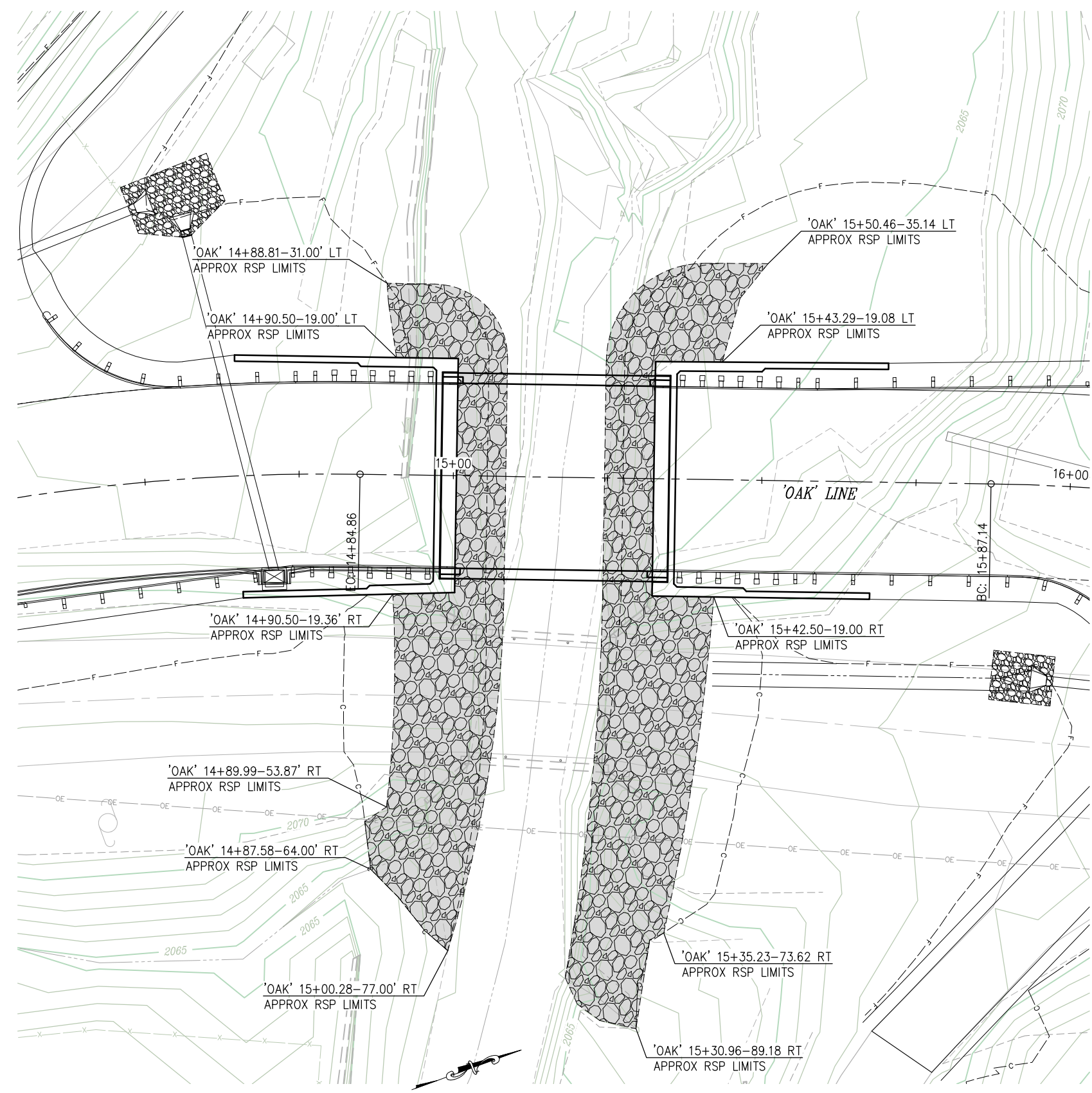


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET
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17 OF 45
W.O. No. **77134**

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ROCK SLOPE PROTECTION
SCALE : 1" = 10'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: ZO
 CHECKED: CG
 ROAD NUMBER: 031

DRAWN: SGM
 DATE: 02/03/23

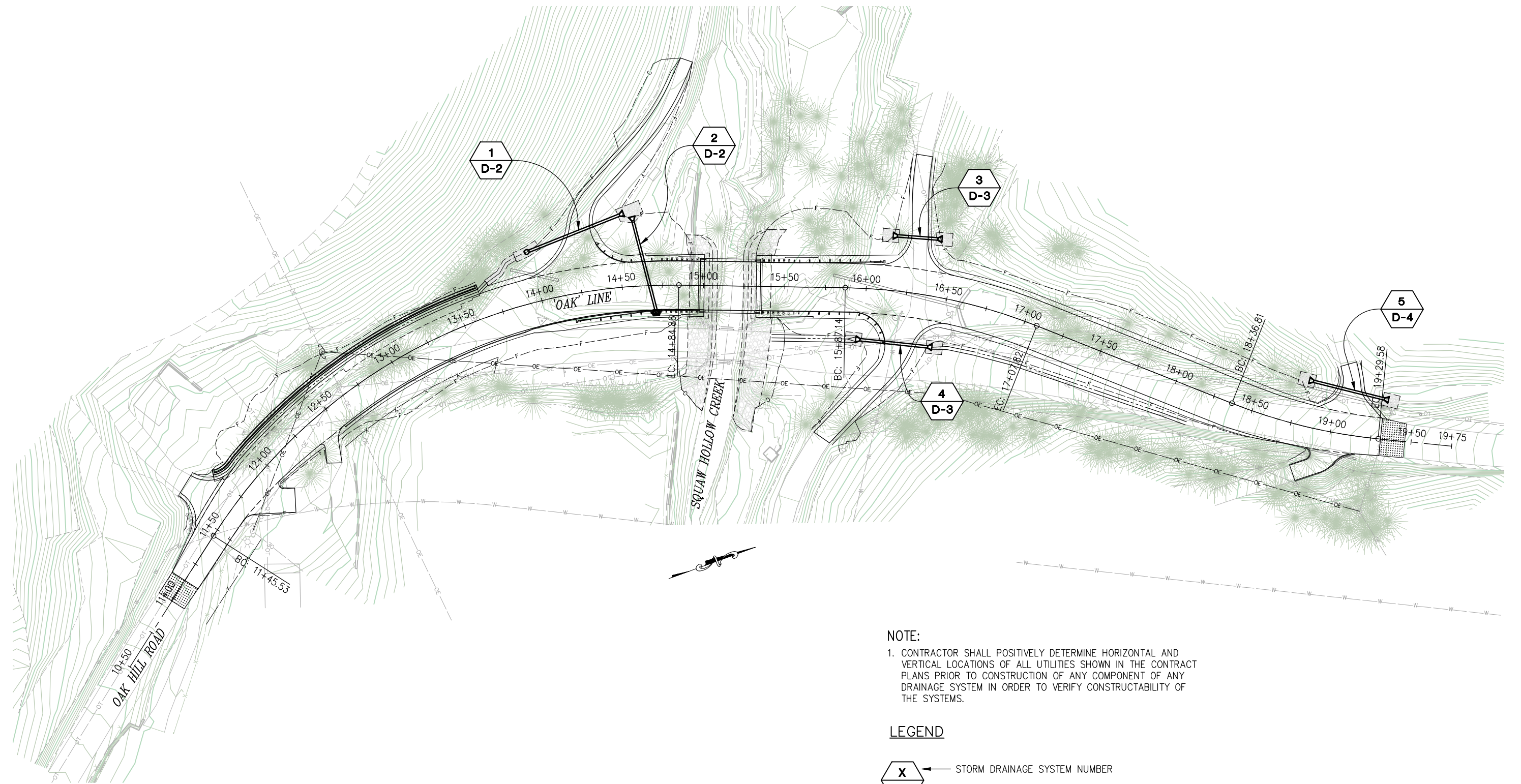


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

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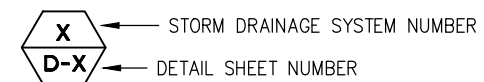
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 FOR REDUCED PLANS
 REVISION



NOTE:

1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.

LEGEND



THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

**DRAINAGE SITE PLAN
SCALE: 1"=30'**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE: _____	ROAD NUMBER: 031	

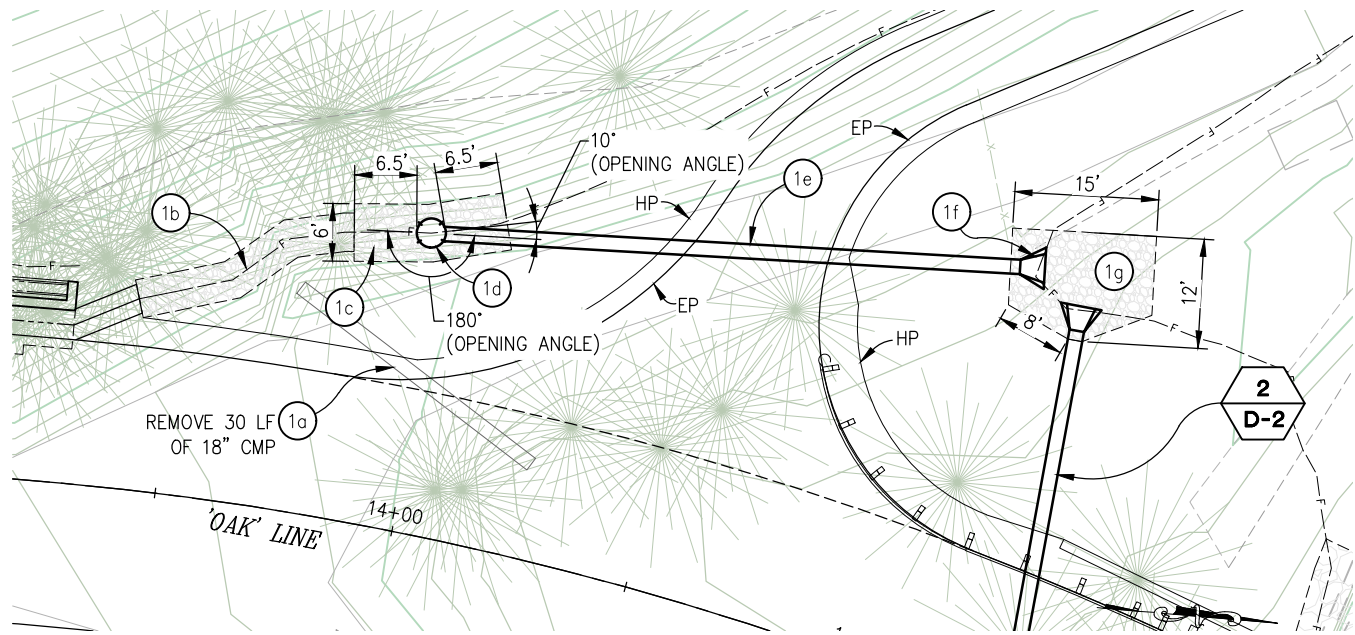


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

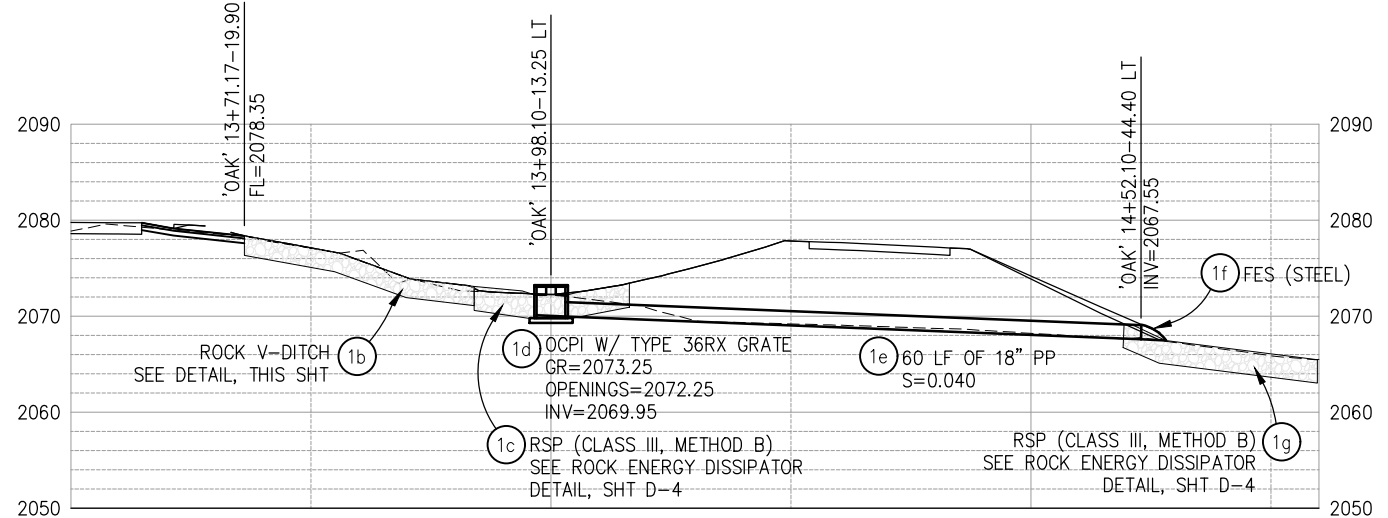
**OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE**

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D-1
19 OF 45
W.O. No. **77134**

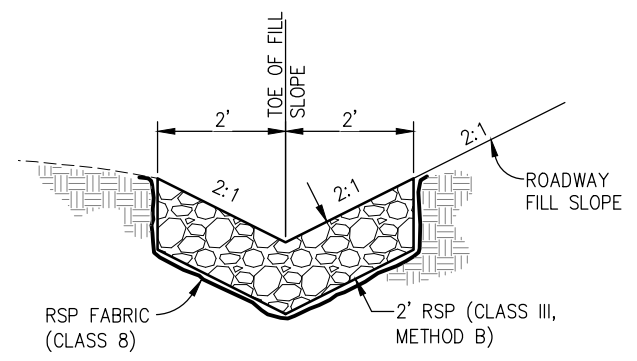
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 FOR REDUCED PLANS
 REVISION
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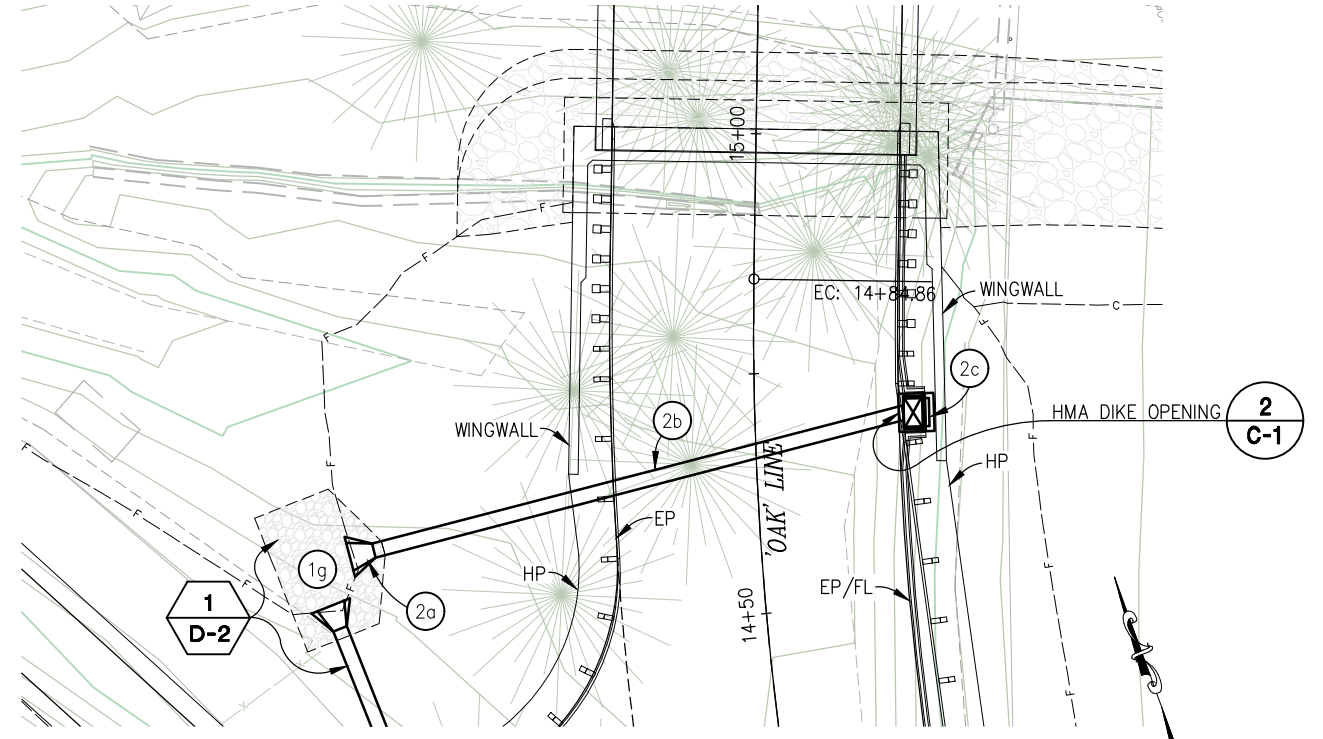
SD SYSTEM 1 - PLAN
SCALE: 1"=10'



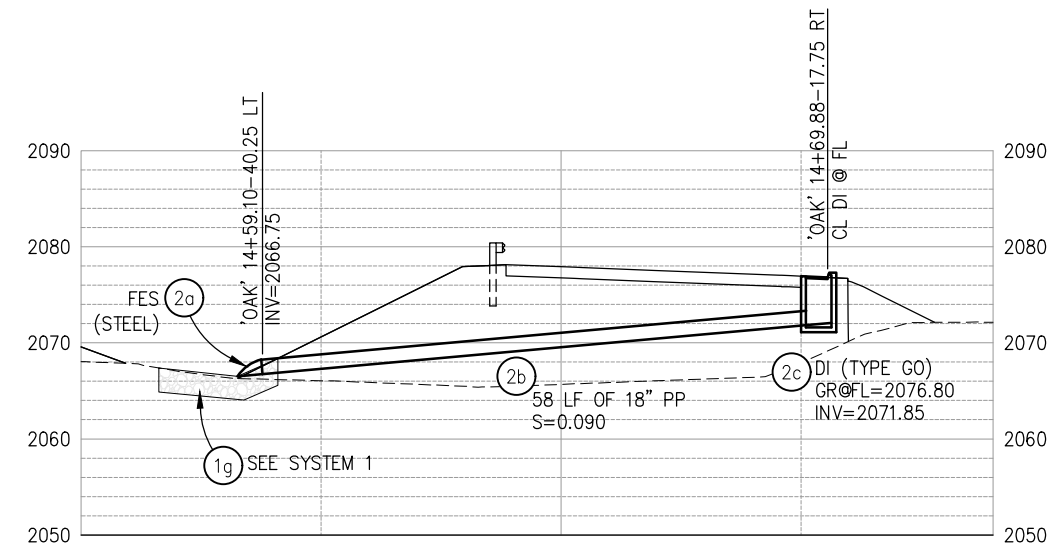
SD SYSTEM 1 - PROFILE
SCALE: 1"=10' H,V



ROCK V-DITCH
NTS



SD SYSTEM 2 - PLAN
SCALE: 1"=10'



SD SYSTEM 2 - PROFILE
SCALE: 1"=10' H,V

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE
SCALE : AS SHOWN

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	

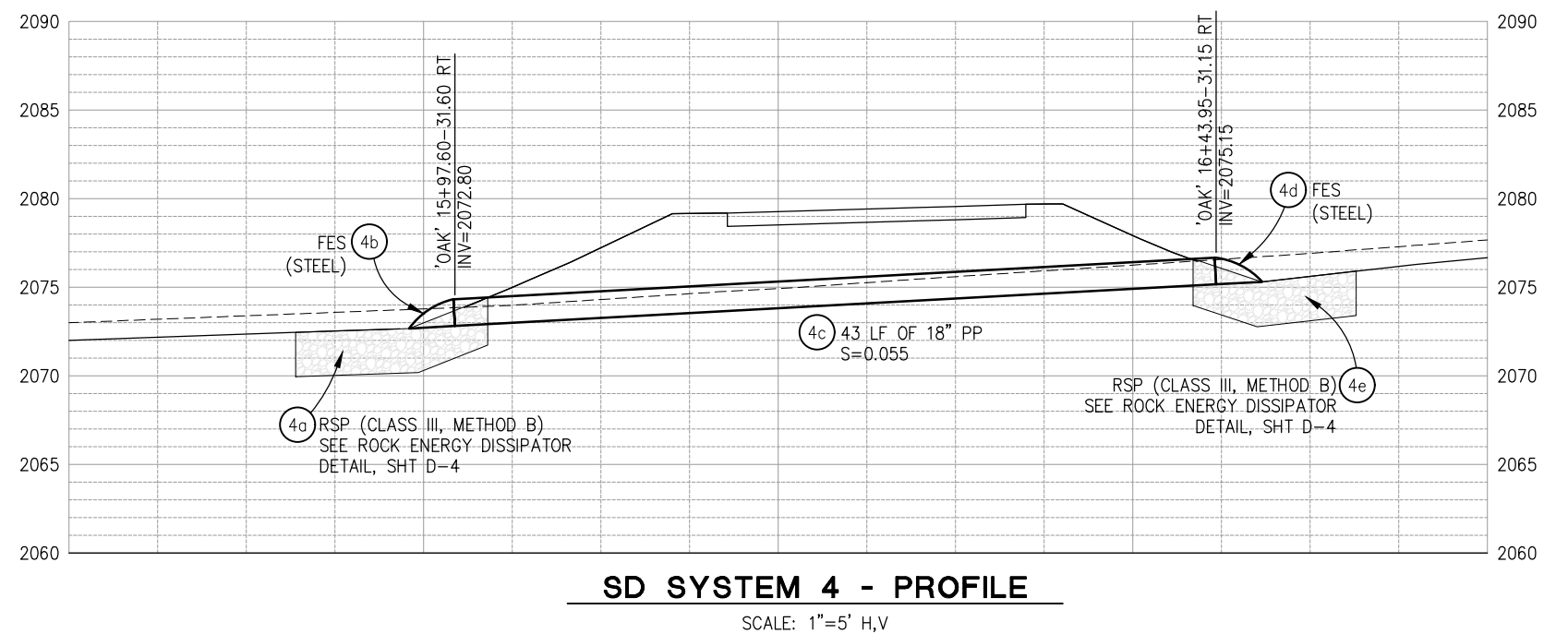
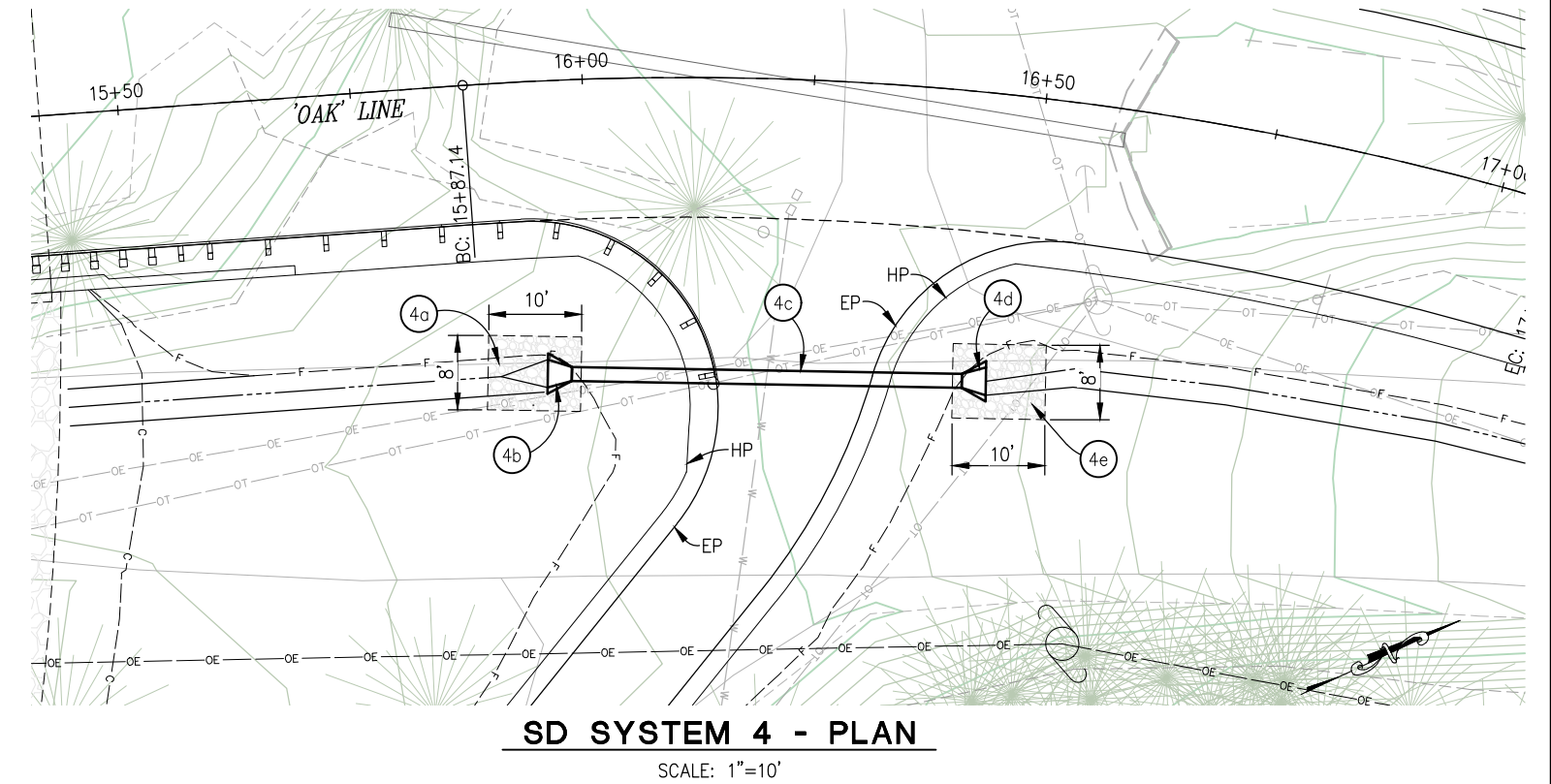
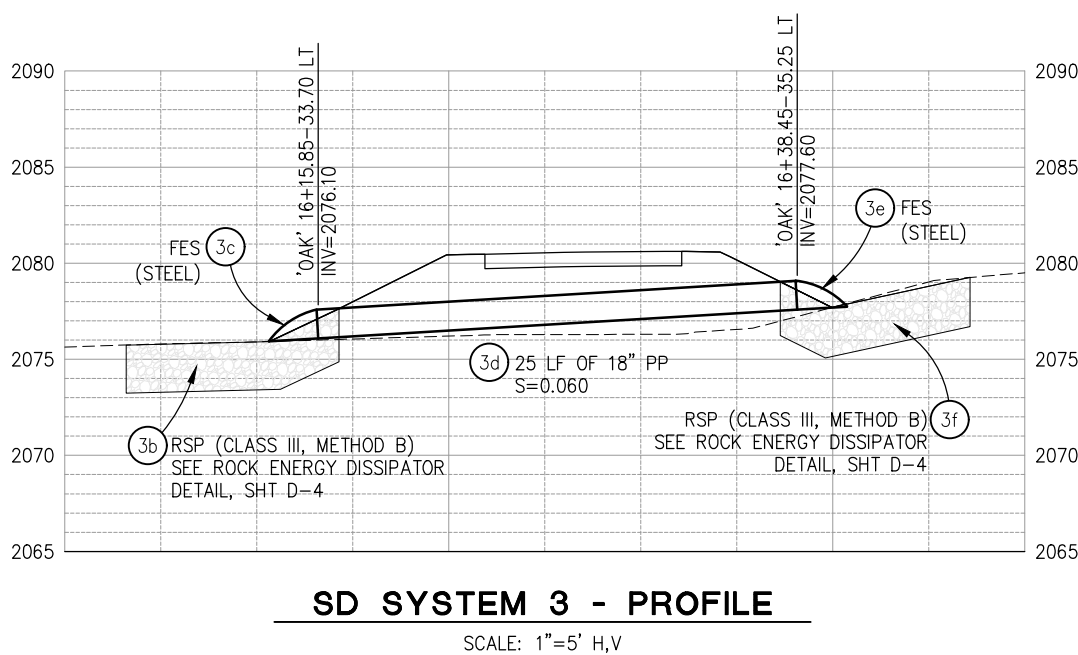
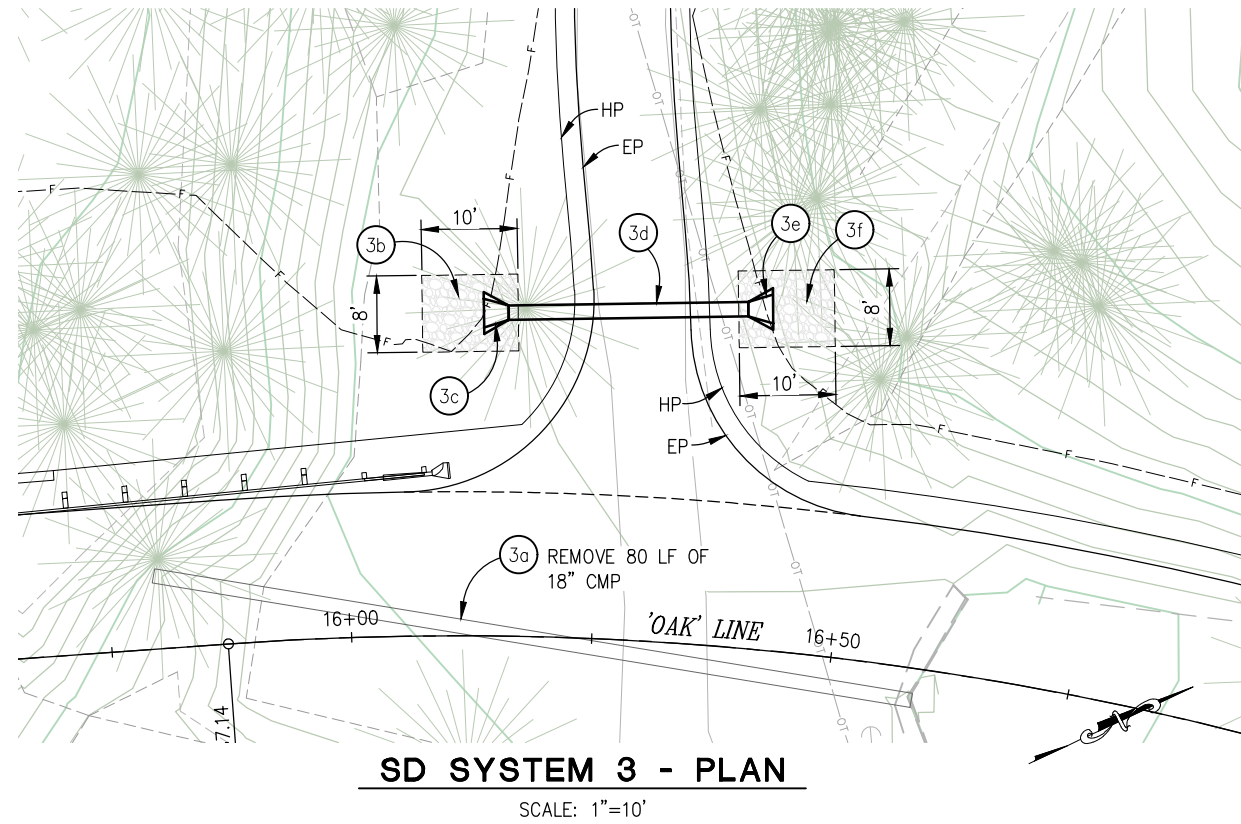


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET	D-2
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W.O. No.	77134

ORIGINAL SCALE IS IN INCHES
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 NUMBER DATE DESCRIPTION BY



THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE
SCALE : AS SHOWN

DESIGNED: ZO	DRAWN: SGM
CHECKED: CG	DATE: 02/03/23
ROAD NUMBER: 031	

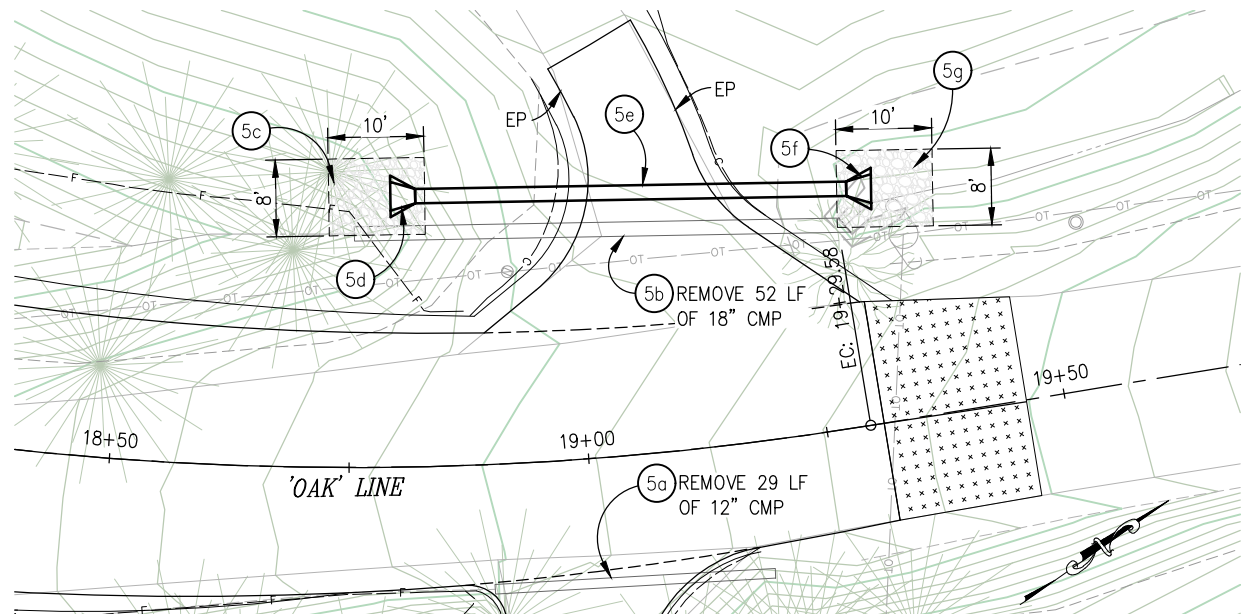


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

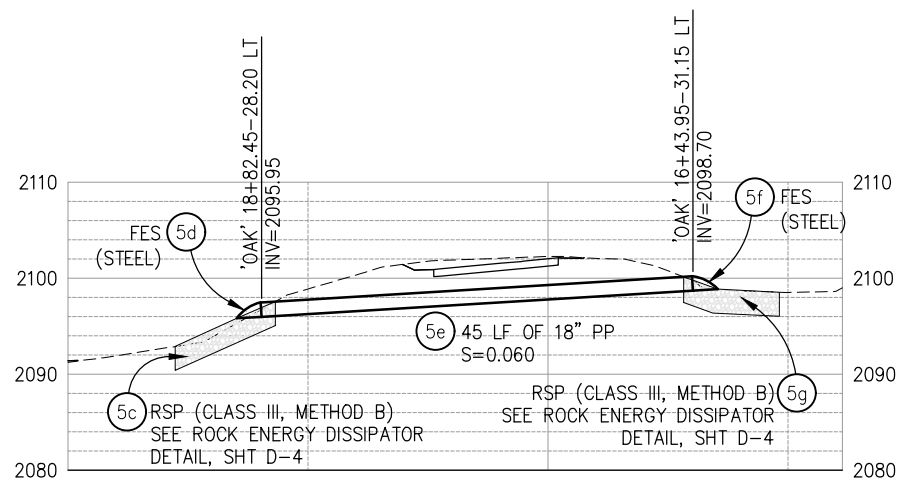
SHEET D-3
21 OF 45
W.O. No. 77134

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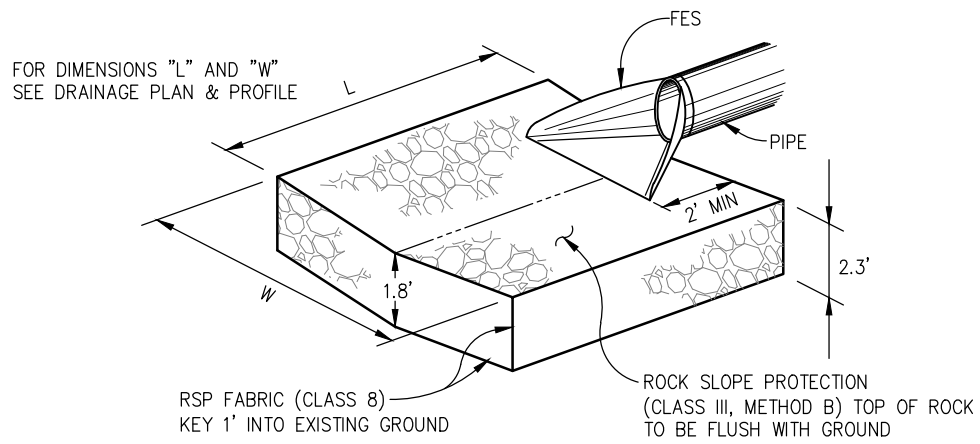
SD SYSTEM 5 - PLAN

SCALE: 1"=10'



SD SYSTEM 5 - PROFILE

SCALE: 1"=10' H,V



ROCK ENERGY DISSIPATOR

NTS

DRAINAGE PLAN SHEET NO.	DRAINAGE SYSTEM NO.	DRAINAGE UNIT	DI (TYPE OCFI)	DI (TYPE GO)	H INLET DEPTH [N]	18" PLASTIC PIPE	FLARED END SECTION (FES) (STEEL)	RSP	RSP FABRIC	REMOVE 12" CMP	REMOVE 18" CMP	DESCRIPTION	STATION	DRAINAGE UNIT	DRAINAGE SYSTEM NO.	DRAINAGE PLAN SHEET NO.						
D-2	1	a	EA	EA	FT	FT	EA	CY	SY	FT	FT	ROCK V-DITCH	'OAK' 13+98.10-13.25 LT	a	1	D-2						
																	b	7	25	PER ROCK ENERGY DISSIPATOR DETAIL	b	
																	c	8	25	PER ROCK ENERGY DISSIPATOR DETAIL	c	
																	d	1		TYPE 36RX GRATED COVER	d	
																	e		60	S=0.040	e	
																	f		1		f	
																	g		11	30	PER ROCK ENERGY DISSIPATOR DETAIL	g
D-2	2	a				1						PER ROCK ENERGY DISSIPATOR DETAIL	'OAK' 14+59.10-40.25 LT	a	2	D-2						
																	b		58	S=0.090	b	
																	c		1		c	
D-3	3	a									80	PER ROCK ENERGY DISSIPATOR DETAIL	'OAK' 16+15.85-33.70 LT	a	3	D-3						
																	b	7	21		b	
																	c		1		c	
																	d		25	S=0.060	d	
																	e		1		e	
																	f		7	21	PER ROCK ENERGY DISSIPATOR DETAIL	f
D-3	4	a										PER ROCK ENERGY DISSIPATOR DETAIL	'OAK' 15+97.60-31.60 RT	a	4	D-3						
																	b		1	S=0.055	b	
																	c		43		c	
																	d		1		d	
																	e		7	21	PER ROCK ENERGY DISSIPATOR DETAIL	e
D-4	5	a									29	PER ROCK ENERGY DISSIPATOR DETAIL	'OAK' 18+82.45-28.20 LT	a	5	D-4						
																	b				b	
																	c		7	21	PER ROCK ENERGY DISSIPATOR DETAIL	c
																	d		1		d	
																	e		45	S=0.060	e	
																	f		1		f	
																	g		7	21	PER ROCK ENERGY DISSIPATOR DETAIL	g
TOTAL			1	1		231	8	68	206	29	162											

NOTES:

- [N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: ZO
DRAWN: SGM
CHECKED: CG
DATE: 02/03/23
ROAD NUMBER: 031

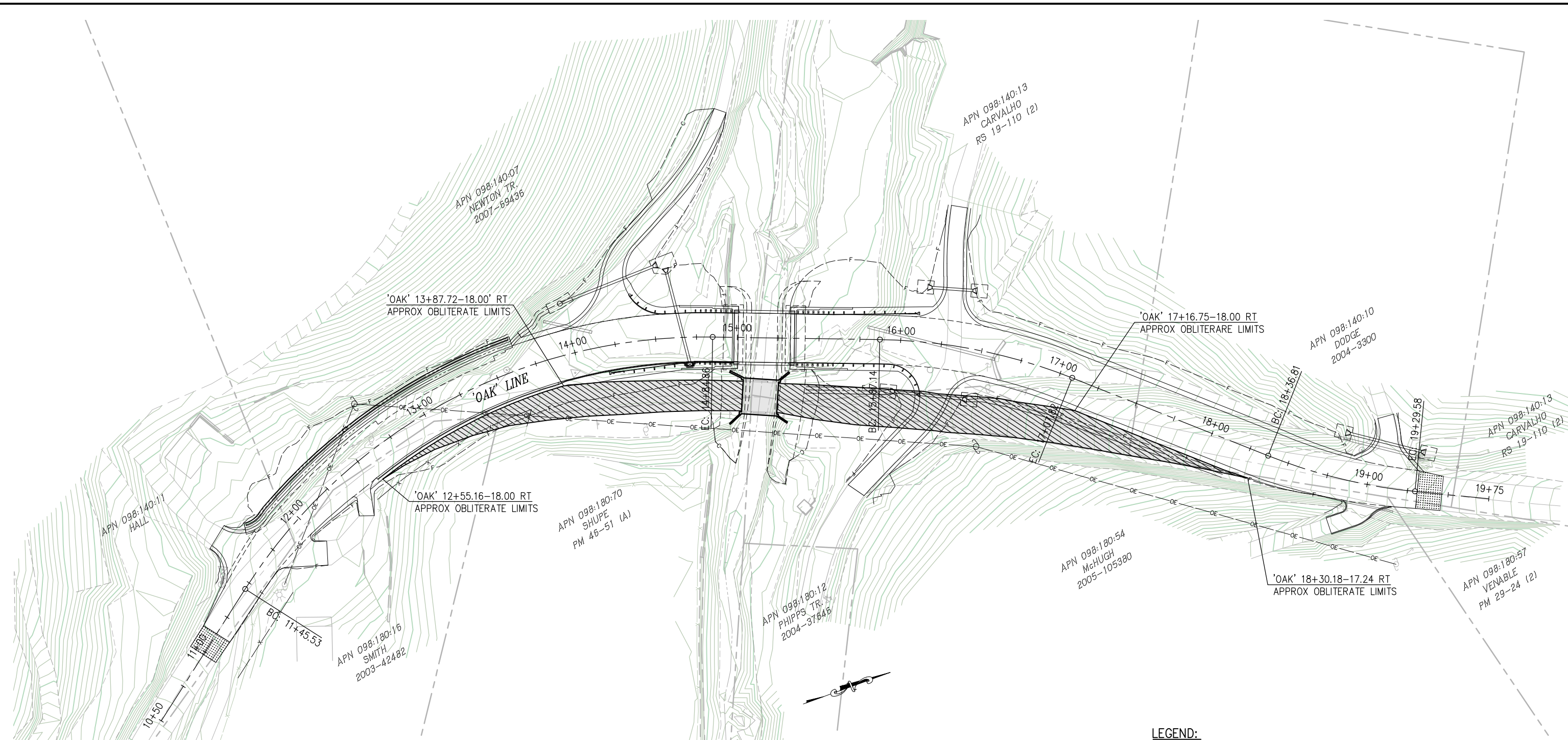


COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW CREEK BRIDGE

SHEET **D-4**
22 OF 45
W.O. No. **77134**

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LEGEND:

- OBLITERATE ROADWAY
- REMOVE BRIDGE

FOR REDUCED PLANS
 2
 1
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: ZO CHECKED: CG ROAD NUMBER: 031	DRAWN: SGM DATE: 02/03/23
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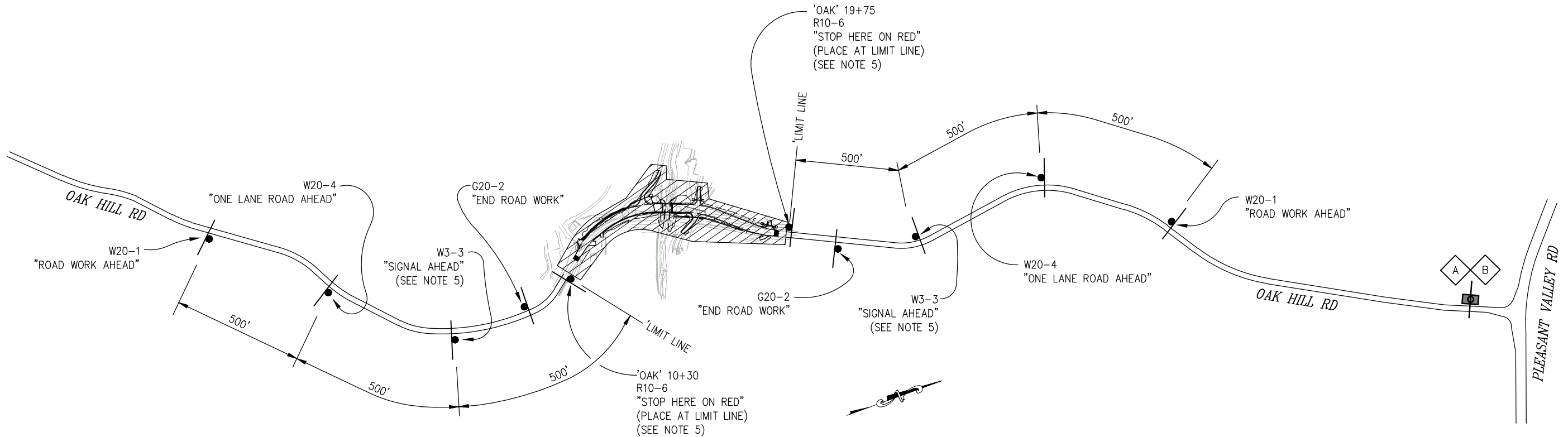
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET
DM-1
 23 OF 45
 W.O. No. **77134**

DEMOLITION PLAN
SCALE : 1" = 30'

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0
 REVISION
 NUMBER DATE DESCRIPTION BY



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TABLE		
MESSAGE	FIRST FLASH	SECOND FLASH
A	ROAD WORK AHEAD	PREPARE TO STOP
B	SIGNAL AHEAD	PREPARE TO STOP

GENERAL STAGE CONSTRUCTION NOTES:

- REFER TO THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC REQUIREMENTS WITHIN THE WORK AREA.
- REMOVE ALL EXISTING STRIPING, MARKINGS, AND SIGNAGE THAT CONFLICT WITH THE TEMPORARY STRIPING, MARKINGS AND SIGNAGE TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY STRIPING.
- ALL TEMPORARY STRIPING AND MARKINGS ARE TO BE PAINT UNLESS NOTED OTHERWISE.
- LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- SIGNS REQUIRED FOR THE PORTABLE TEMPORARY SIGNAL MUST BE COVERED OR REMOVED WHEN THE SIGNAL IS NOT OPERATING.
- 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.

LEGEND:

- CONSTRUCTION AREA
- CONSTRUCTION SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- STANDARD PCMS MESSAGE (SEE PCMS TABLE)
- PCMS MESSAGE DURING OPERATION OF TEMPORARY SIGNAL (SEE PCMS TABLE)

STAGE CONSTRUCTION SCALE : 1"=200'

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031

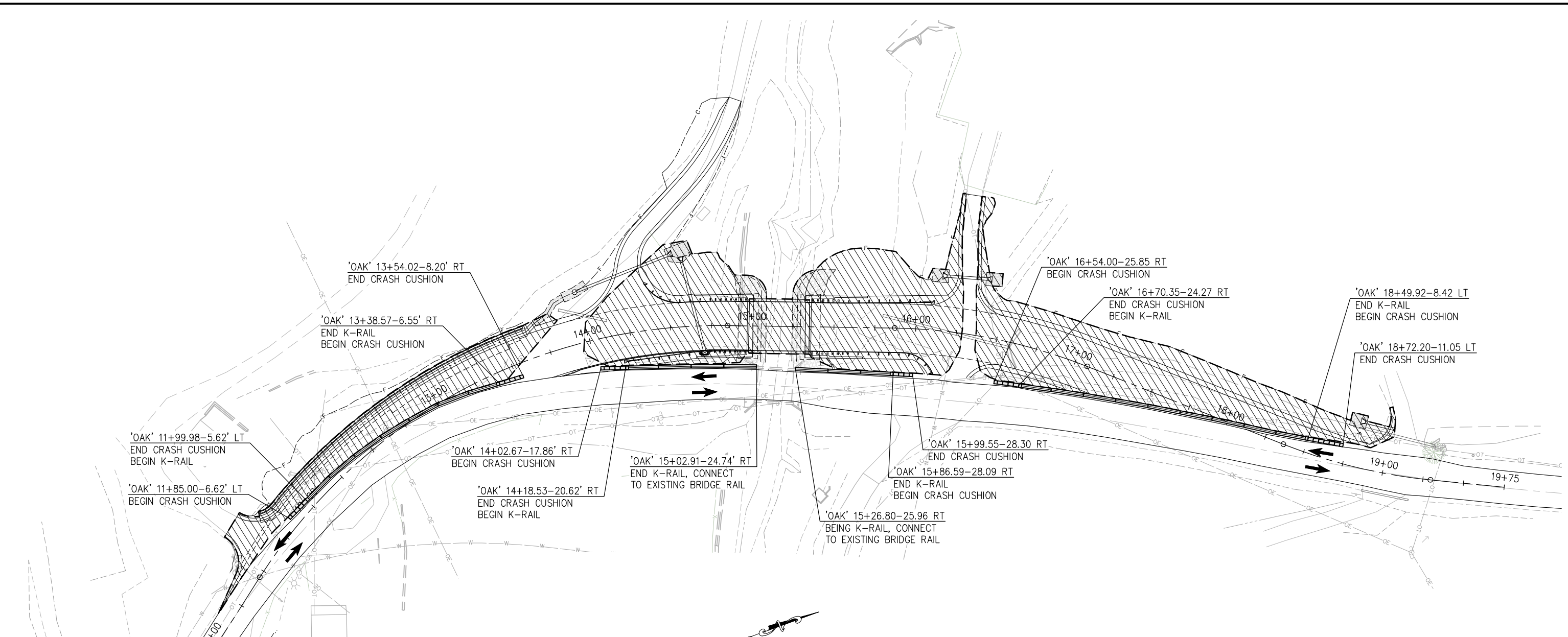


COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW CREEK BRIDGE

SHEET
SC-1
 24 OF 45
 W.O. No. **77134**

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 REVISION



STAGE 1 CONSTRUCTION PLAN

SCALE: 1"=30'

STAGE 1 CONSTRUCTION NOTES:

- MAINTAIN TRAFFIC ON EXISTING ROADWAY
- CONSTRUCT NEW BRIDGE AND ROADWAY ALIGNMENT WEST OF THE EXISTING ROADWAY
- CONSTRUCT DRIVEWAY '11+62' AS SHOWN ON SHT L-3
- MAINTAIN ACCESS TO ALL OTHER EXISTING DRIVEWAYS
- INSTALL STORM DRAIN SYSTEM #2 AS SHOWN ON SHT D-2
- CONSTRUCT RETAINING WALL #1 AS SHOWN ON SHT RW-1
- FINAL 0.2' HMA LIFT ON ROADWAY WILL BE COMPLETED AT THE END OF STAGE 3

LEGEND:

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

**STAGE CONSTRUCTION
SCALE : AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	

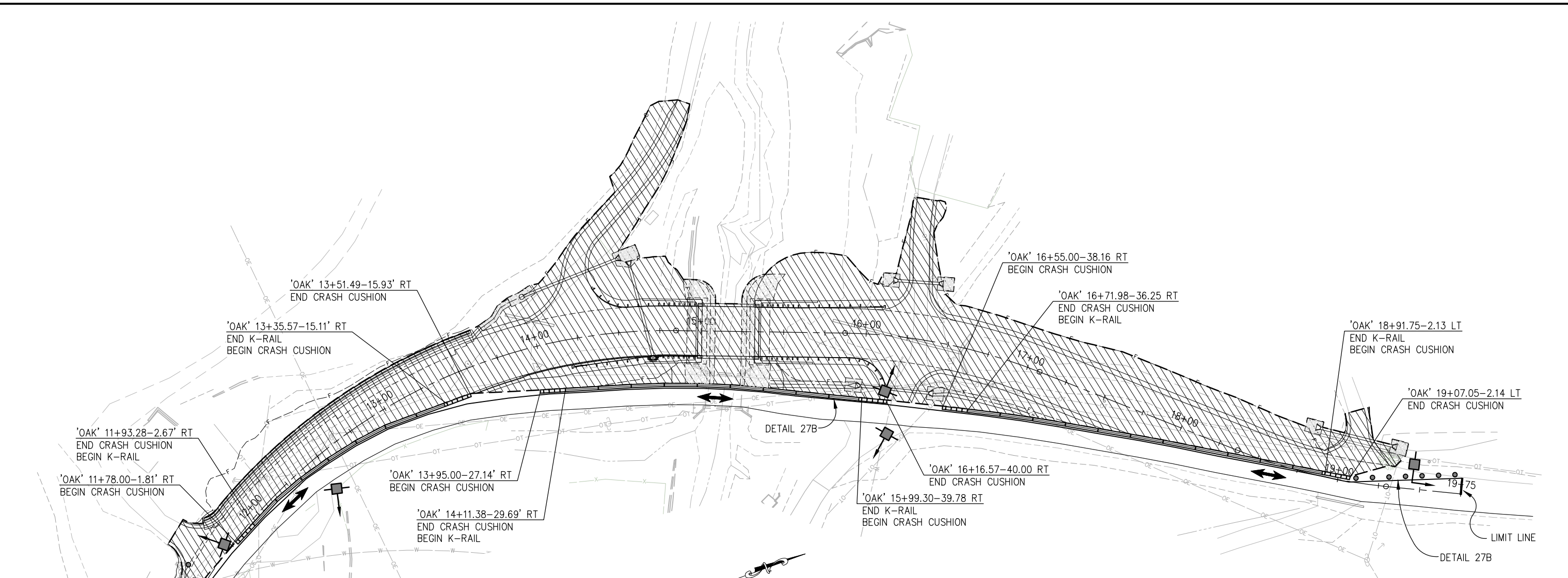


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE**

SHEET	SC-2
25 OF 45	
W.O. No.	77134

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 FOR REDUCED PLANS
 REVISION



STAGE 2 CONSTRUCTION PLAN

SCALE: 1"=30'

STAGE 2 CONSTRUCTION NOTES:


- MAINTAIN AT LEAST ONE TEN (10) FOOT WIDE TRAFFIC LANE AT ALL TIMES
- CONSTRUCT REMAINDER OF NEW ROADWAY ALIGNMENT
- CONSTRUCT DRIVEWAYS '14+26', '16+28 LT' AND '19+11' AS SHOWN ON SHT L-5, L-6, AND L-8
- INSTALL STORM DRAIN SYSTEMS #1, #3, AND #5 AS SHOWN ON SHTS D-2, D-3, AND D-4
- FINAL 0.2' HMA LIFT ON ROADWAY WILL BE COMPLETED AT THE END OF STAGE 3

LEGEND:

- CONSTRUCTION THIS STAGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC
- PORTABLE TEMPORARY SIGNAL
- PORTABLE TEMPORARY SIGNAL DRIVEWAY ASSISTANCE DEVICE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	



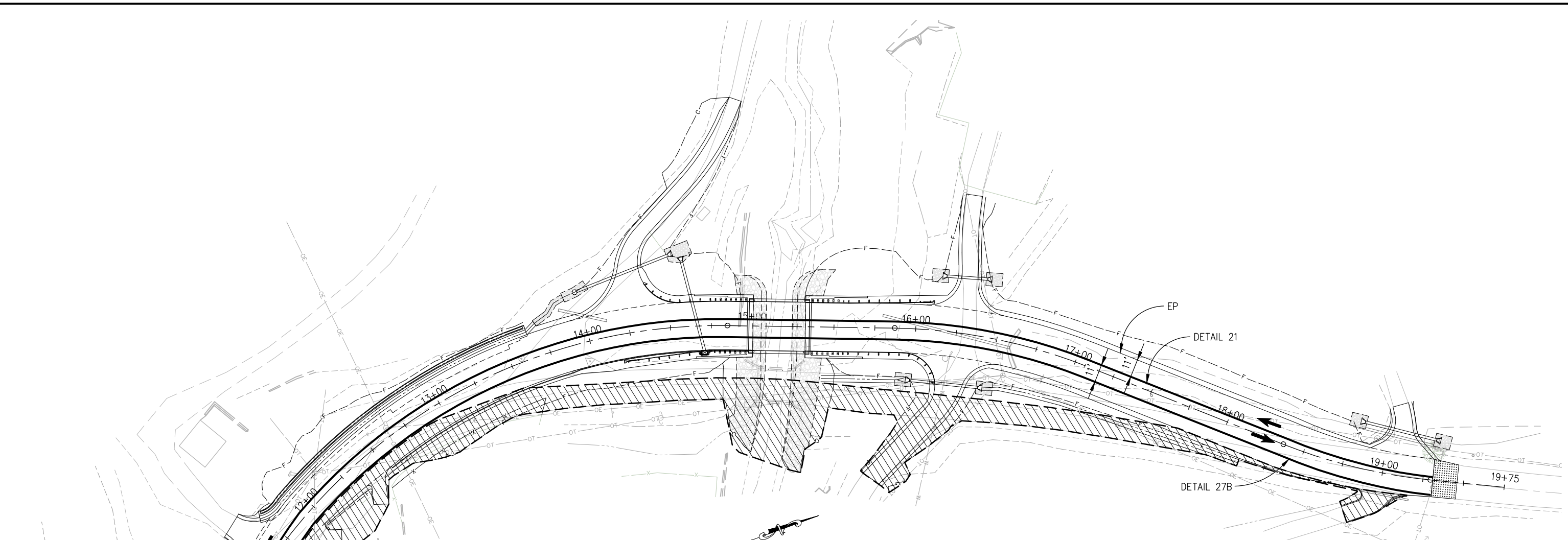
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
SCALE : AS SHOWN

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET	SC-3
26 OF 45	
W.O. No.	77134

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STAGE 3 CONSTRUCTION PLAN

SCALE: 1"=30'

STAGE 3 CONSTRUCTION NOTES:

- MAINTAIN TRAFFIC ON NEW ROADWAY
- DEMOLISH EXISTING ROADWAY ALIGNMENT AND BRIDGE
- CONSTRUCT DRIVEWAYS '11+82', 12+41, '16+28-RT' AND '19+03' AS SHOWN ON SHTS L-4, L-7, AND L-9
- INSTALL STORM DRAIN SYSTEM #4 AS SHOWN ON SHT D-3
- INSTALL REMAINDER OF ROCK SLOPE PROTECTION EAST OF BRIDGE
- PLACE FINAL 0.2' HMA ON ROADWAY AND COMPLETE STRIPING

LEGEND:

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

STAGE CONSTRUCTION
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: DA	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	

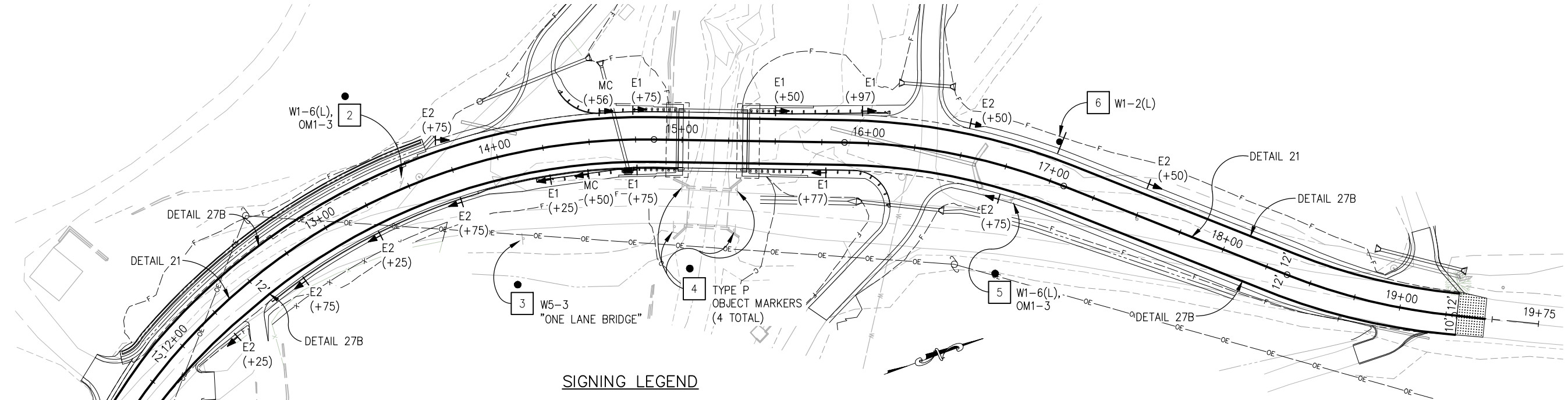


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET	SC-4
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W.O. No.	77134

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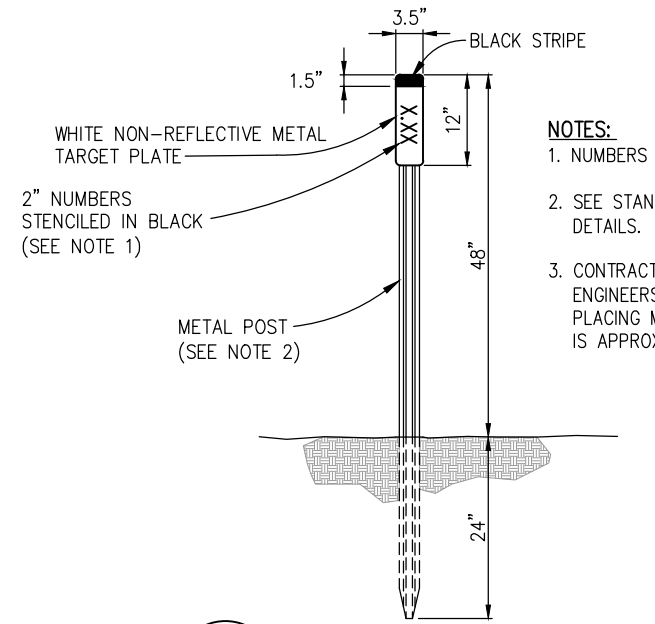


SIGNING LEGEND

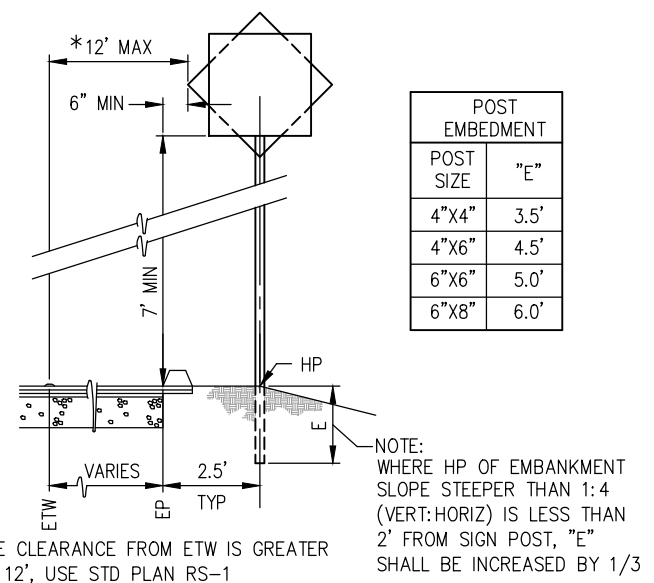
- X — SIGN NUMBER
 - INSTALL SIGN
 - REMOVE AND SALVAGE ROADSIDE SIGN
 - * — RELOCATE ROADSIDE SIGN
 - PROPOSED MARKER/DELINEATOR
- MC = MARKER CULVERT (SEE DETAIL 1)
 E1 = DELINEATOR FASTENED TO MGS POSTS PER A77N4 (TOTAL 6)
 E2 = CLASS 2 DELINEATOR, TYPE E PER A73C

CONSTRUCTION NOTES

1. SIGNING AND PAVEMENT DELINEATION PLANS ARE ACCURATE FOR SIGNING AND PAVEMENT DELINEATION ONLY. SEE "SC" SHEETS FOR CONSTRUCTION AREA SIGNS.
2. LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
3. VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO SIGN POST INSTALLATION.
4. ALL CONSTRUCTION AND PERMANENT SIGNS WILL HAVE 4" X 4" PRESSURE TREATED DOUGLAS FIR WOOD POSTS. POST SIZES SHOWN ARE DRESSED DRY MINIMUM SIZE.
5. POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY THE ENGINEER.
6. SIGNS SHALL BE LOCATED PER "SIGN LOCATION DETAIL", THIS SHEET.
7. ALL PERMANENT SIGNS SHALL BE 12 GAUGE (0.078") ALUMINUM PANELS.
8. ALL EXISTING MARKERS/DELINEATORS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND SALVAGED UNLESS OTHERWISE NOTED.
9. ALL CULVERT MARKERS SHALL BE PLACED PER "MARKER (CULVERT)" DETAIL, THIS SHEET.
10. ANY RELOCATED SIGNS DAMAGED BY THE RELOCATION PROCESS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. DAMAGED SIGNS ARE TO BE SALVAGED AND RETURNED TO EL DORADO COUNTY.
11. PAVEMENT DELINEATION LAYOUT MUST BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF THERMOPLASTIC.
12. ALL THERMOPLASTIC STRIPING SHALL BE 4" WIDE.



1 MARKER (CULVERT)
NTS



2 SIGN LOCATION DETAIL
NTS
SEE ALSO STD PLAN RS-2

POST EMBEDMENT	
POST SIZE	"E"
4"X4"	3.5'
4"X6"	4.5'
6"X6"	5.0'
6"X8"	6.0'

THIS SHEET ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: ZO
 CHECKED: CG
 ROAD NUMBER: 031
 DRAWN: SGM
 DATE: 02/03/23



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

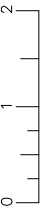
OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SIGNING AND PAVEMENT DELINEATION
SCALE : 1" = 40'

REVISION	NUMBER	DATE	DESCRIPTION	BY

SHEET
SPD-1
 28 OF 45
 W.O. No. **77134**

ORIGINAL SCALE IS IN INCHES
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SIGN QUANTITIES									
SIGN NO.	SIGN	CALIFORNIA MUTCD CODE	PANEL SIZE (INCHES)	WOOD POST SIZE & LENGTH	ROADSIDE SIGNS			EXISTING LOCATION	PROPOSED LOCATION (APPROXIMATELY)
					ONE POST EA	RELOCATE EA	SALVAGE EA		
					4" X 4"				
1	ADVANCED WARNING 'CURVE AHEAD'	W1-2(R)	36 X 36	15	1				'OAK' 11+00 LT
2	ADVANCED WARNING 'CURVE AHEAD'	W1-6 AND OM1-3						1	'OAK' 13+47 LT
3	ADVANCED WARNING 'ONE LANE BRIDGE'	W5-3						1	'OAK' 14+04 RT
4	TYPE 'P' MARKER							4	EXISTING BRIDGE
5	ADVANCED WARNING 'CURVE AHEAD'	W1-6 AND OM1-3						1	'OAK' 16+83 RT
6	ADVANCED WARNING 'CURVE AHEAD'	W1-2(L)	36 X 36	15	1				'OAK' 17+00 LT
TOTAL					2			7	

THERMOPLASTIC TRAFFIC STRIPE-SPRAYABLE (ENHANCED WET NIGHT VISIBILITY)				
DETAIL NO./STANDARD PLAN	FROM	TO	WHITE FT	YELLOW FT
DETAIL 21/A20A	'OAK' 10+98	'OAK' 19+46		848
DETAIL 27B/A20B	'OAK' 11+13 LT	'OAK' 19+31 LT	752	
	'OAK' 11+13 RT	'OAK' 19+31 RT	631	
SUBTOTAL			1,383	848
TOTAL			2,231	

MARKER (CULVERT)					
NUMERAL ON TARGET ON PLATE	FACING TRAFFIC		FACING TRAFFIC		LOCATION
	EA		EA		
	E	W	S	N	
0.64			1		'OAK' 14+50 RT
0.64				1	'OAK' 14+56 LT
SUBTOTAL			1	1	
TOTAL			2		

DELINEATORS		
LOCATION	TYPE E CLASS 1	TYPE E CLASS 2
'OAK' 11+25 RT		1
'OAK' 11+68 RT		1
'OAK' 12+25 RT		1
'OAK' 13+25 RT		1
'OAK' 13+75 LT & RT		1
'OAK' 14+25 RT		2
'OAK' 14+75 LT & RT	1	
'OAK' 15+50 LT	2	
'OAK' 15+77 RT	1	
'OAK' 15+97 RT	1	
'OAK' 16+50 LT	1	
'OAK' 16+75 RT		1
'OAK' 17+50 LT		1
TOTAL		6

SIGNING AND PAVEMENT DELINEATION
SCALE : NONE

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 CHECKED: CG
 ROAD NUMBER: 031

DRAWN: SGM
 DATE: 02/03/23

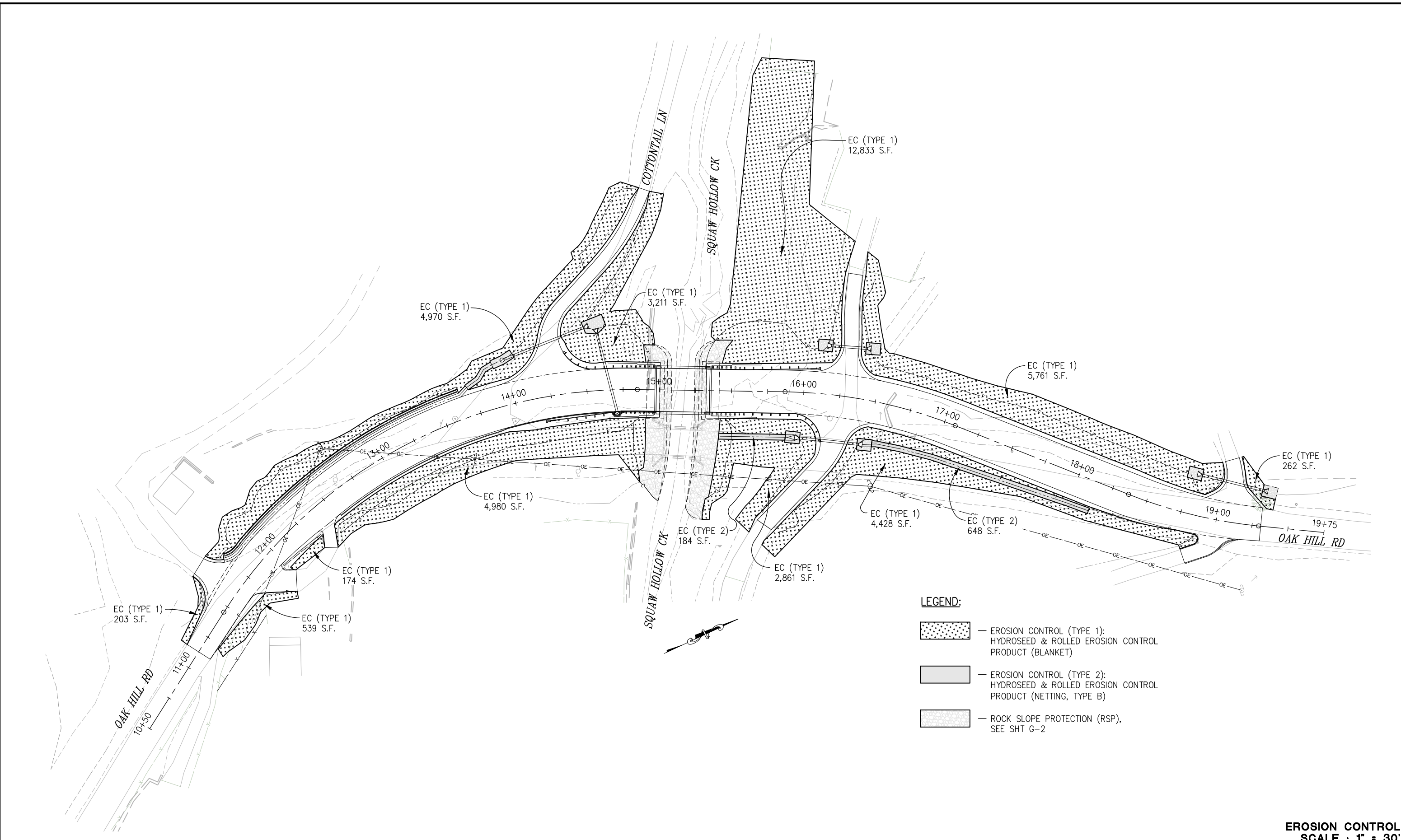


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE


SHEET
SPD-2
29 OF 45
W.O. No. 77134

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 FOR REDUCED PLANS
 REVISION



REVISION	NUMBER	DATE	DESCRIPTION	BY

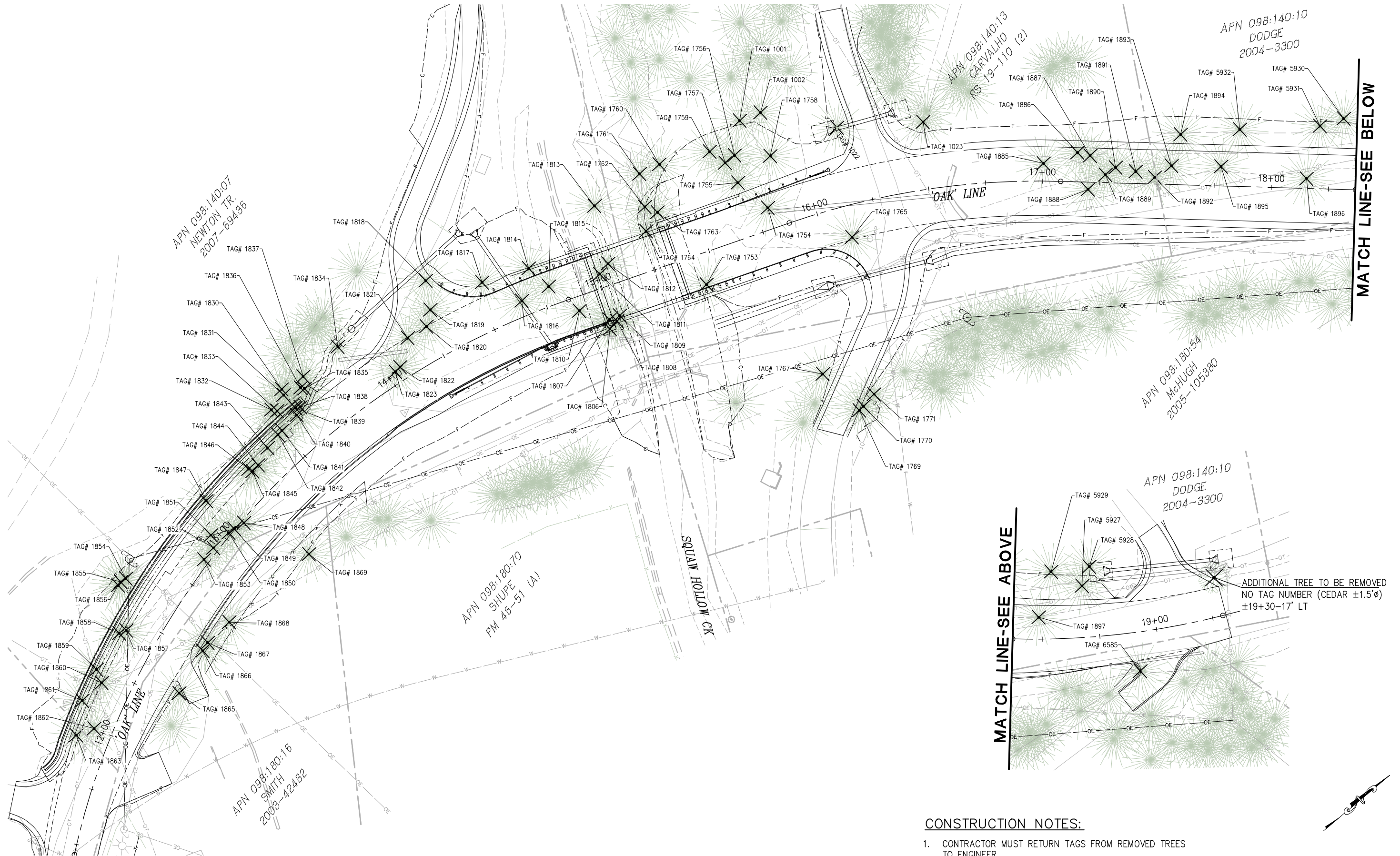
PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE:	ROAD NUMBER: 031	


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
CREEK BRIDGE

SHEET	EC-1
30 OF 45	
W.O. No.	77134

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



MATCH LINE-SEE BELOW

MATCH LINE-SEE ABOVE

ADDITIONAL TREE TO BE REMOVED
 NO TAG NUMBER (CEDAR ±1.5'φ)
 ±19+30-17' LT

CONSTRUCTION NOTES:

1. CONTRACTOR MUST RETURN TAGS FROM REMOVED TREES TO ENGINEER

TREE REMOVAL SCALE : 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 02/03/23
DATE: _____	ROAD NUMBER: 031	



**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**OAK HILL RD AT SQUAW HOLLOW
 CREEK BRIDGE**

SHEET	TR-1
31 OF 45	
W.O. No.	77134

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY

TREE REMOVAL TABLE			
TAG NUMBER	'OAK' LINE STATION	OFFSET	DESCRIPTION & DIA.
1001	15+81.30	49.43' LT	PINE-1.27ø
1002	15+90.51	49.81' LT	PINE-1.59ø
1022	16+17.47	34.20' LT	OAK FORKED-2.61ø & 2.16ø
1023	16+51.61	29.37' LT	FIR-2.42ø
1753	15+44.10	13.53' RT	OAK-2.71ø
1754	15+80.44	9.37' LT	PINE-3.60ø
1755	15+71.72	24.07' LT	CEDAR-1.11ø
1756	15+74.24	35.82' LT	CEDAR-1.27ø
1757	15+69.28	34.08' LT	OAK-0.95ø
1758	15+88.73	30.43' LT	PINE-1.66ø
1759	15+64.46	40.93' LT	OAK CLUSTER-0.41ø TO 1.08ø
1760	15+41.81	42.87' LT	ALDER FORKED-0.54ø & 0.54ø
1761	15+32.29	41.79' LT	ALDER FORKED-0.89ø & 0.57ø
1762	15+29.75	27.36' LT	ALDER-0.60ø
1763	15+34.17	23.35' LT	OAK-2.26ø
1764	15+26.80	17.20' LT	ALDER-1.31ø
1765	16+12.13	13.94' RT	PINE-2.64ø
1767	15+79.33	67.15' RT	PINE-1.53ø
1769	15+89.99	87.40' RT	PINE-0.60ø
1770	15+93.09	86.24' RT	PINE-0.83ø
1771	16+01.11	82.63' RT	CEDAR-1.78ø
1806	14+97.88	17.98' RT	ALDER-1.53ø
1807	14+98.98	14.13' RT	ALDER-1.08ø
1808	15+01.90	15.85' RT	ALDER-1.05ø
1809	15+03.84	13.91' RT	ALDER-0.86ø
1810	14+87.84	6.17' RT	PINE-4.77ø
1811	15+01.50	6.08' LT	ALDER-0.67ø
1812	15+06.41	9.20' LT	ALDER-1.85ø
1813	15+09.11	34.99' LT	ALDER-1.78ø
1814	14+73.60	18.81' LT	OAK-2.16ø
1815	14+78.85	8.38' LT	OAK-0.95ø
1816	14+65.82	6.76' LT	LOCUST-0.48ø
1817	14+53.61	21.08' LT	LOCUST-0.51ø
1818	14+33.46	32.61' LT	ALDER-1.81ø
1819	14+29.47	20.48' LT	ALDER-1.56ø
1820	14+24.74	14.95' LT	LOCUST-0.51ø
1821	14+15.54	14.66' LT	LOCUST-1.21ø

TREE REMOVAL TABLE			
TAG NUMBER	'OAK' LINE STATION	OFFSET	DESCRIPTION & DIA.
1822	14+06.25	5.70' LT	CEDAR-0.57ø
1823	14+03.48	5.04' LT	CEDAR-2.42ø
1830	13+61.20	28.75' LT	CEDAR-3.02ø
1831	13+60.25	26.28' LT	OAK-0.70ø
1832	13+52.53	24.93' LT	CEDAR-4.90ø
1833	13+53.99	22.92' LT	OAK-0.45ø
1834	13+89.55	28.28' LT	LOCUST-1.21ø
1835	13+68.47	22.52' LT	LOCUST-0.80ø
1836	13+67.47	23.92' LT	LOCUST-0.73ø
1837	13+71.14	27.03' LT	LOCUST-0.86ø
1838	13+62.27	17.52' LT	LOCUST-0.73ø
1839	13+60.48	18.63' LT	LOCUST-0.83ø
1840	13+59.02	15.83' LT	LOCUST-0.76ø
1841	13+50.06	15.11' LT	CEDAR-0.64ø
1842	13+47.68	14.91' LT	OAK-0.99ø
1843	13+40.69	13.83' LT	CEDAR-1.08ø
1844	13+32.78	11.41' LT	OAK-1.40ø
1845	13+29.25	11.21' LT	CEDAR-0.54ø
1846	13+28.79	13.19' LT	CEDAR-0.54ø
1847	13+07.01	17.60' LT	CEDAR-1.27ø
1848	13+10.34	1.18' RT	CEDAR-1.85ø
1849	13+05.64	0.34' LT	CEDAR FORKED-1.62ø & 1.34ø
1850	13+02.76	1.12' LT	CEDAR-1.46ø
1851	12+97.11	6.48' LT	CEDAR-1.62ø
1852	12+93.44	2.19' LT	CEDAR FORKED-1.43ø & 1.27ø
1853	12+86.97	2.35' LT	CEDAR-2.04ø
1854	12+61.75	25.77' LT	CEDAR-1.50ø
1855	12+59.46	26.86' LT	CEDAR-1.34ø
1856	12+57.73	26.99' LT	CEDAR-0.70ø
1857	12+43.46	14.00' LT	LOCUST-0.60ø
1858	12+40.97	15.98' LT	LOCUST-1.53ø
1859	12+23.19	17.52' LT	OAK-1.56ø
1860	12+19.14	13.02' LT	OAK-0.83ø
1861	12+09.02	17.55' LT	OAK-0.86ø
1862	12+00.11	8.06' LT	LOCUST-1.75ø
1863	11+94.69	14.22' LT	OAK-1.59ø
1865	12+30.12	19.42' RT	CEDAR-1.69ø

TREE REMOVAL TABLE			
TAG NUMBER	'OAK' LINE STATION	OFFSET	DESCRIPTION & DIA.
1866	12+52.60	19.47' RT	CEDAR-2.61ø
1867	12+57.04	19.50' RT	CEDAR-1.34ø
1868	12+70.53	22.50' RT	CEDAR-2.01ø
1869	13+19.50	31.53' RT	ALDER-1.31ø
1885	17+00.29	7.72' LT	PINE-1.72ø
1886	17+14.85	12.82' LT	PINE-2.80ø
1887	17+20.45	11.61' LT	PINE-1.15ø
1888	17+19.91	3.16' RT	OAK-0.76ø
1889	17+27.37	3.45' LT	OAK-0.51ø
1890	17+31.69	6.71' LT	PINE-2.26ø
1891	17+40.59	5.25' LT	PINE-2.83ø
1892	17+48.97	2.97' LT	OAK-1.75ø
1893	17+56.12	8.19' LT	PINE-2.42ø
1894	17+59.72	22.02' LT	PINE-0.89ø
1895	17+77.80	8.52' LT	OAK-0.95ø
1896	18+15.32	4.28' LT	OAK-2.26ø
1897	18+48.31	9.58' LT	CEDAR-3.44ø
5927	18+68.72	22.61' LT	PINE-1.97ø
5928	18+72.83	30.79' LT	OAK-1.75ø & 1.88ø
5929	18+54.35	29.43' LT	OAK-0.99ø
5030	18+30.83	30.99' LT	OAK-0.38ø, 0.45ø, & 0.67ø
5031	18+20.58	27.44' LT	FIR-0.48ø
5932	17+85.53	24.93' LT	OAK-1.43ø
6585	18+90.53	16.99' LT	FIR-1.56ø
NO TAG	±19+30	±17' LT	CEDAR-±1.5ø

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: DA
 DRAWN: SGM
 CHECKED: CG
 DATE: 02/03/23
 ROAD NUMBER: 031



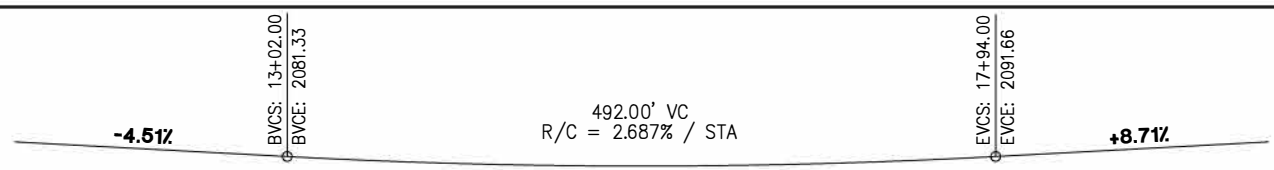
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

OAK HILL RD AT SQUAW HOLLOW
 CREEK BRIDGE

TREE REMOVAL SCALE : NONE

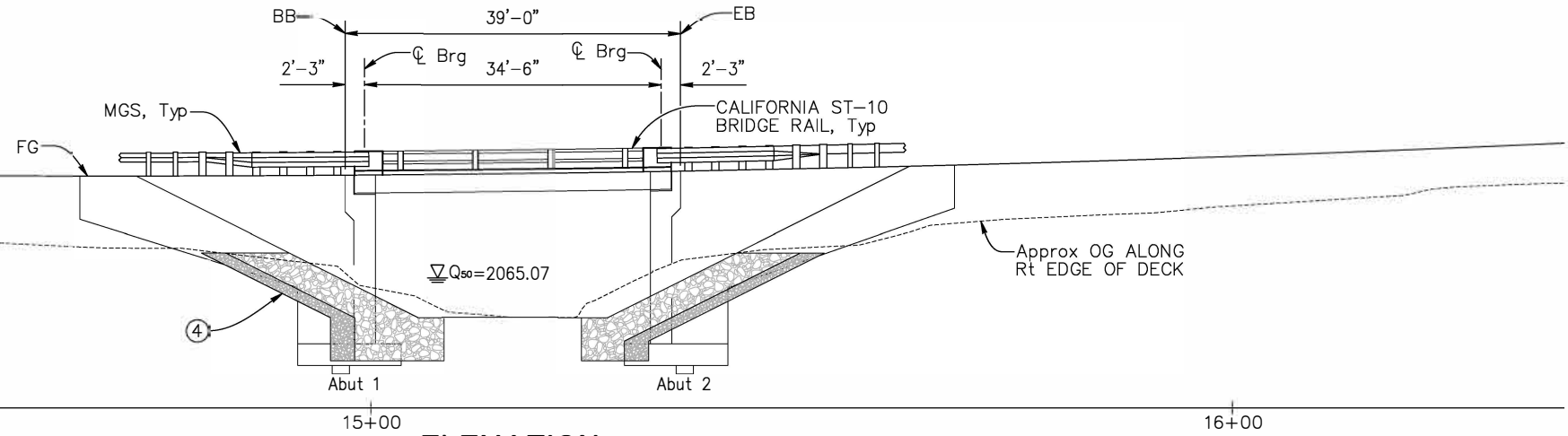
SHEET
 TR-2
 32 OF 45
 W.O. No. 77134

TIME PLOTTED -> \$TIME
 DATE PLOTTED -> \$DATE
 USERNAME -> \$USER
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



PROFILE GRADE

NO SCALE

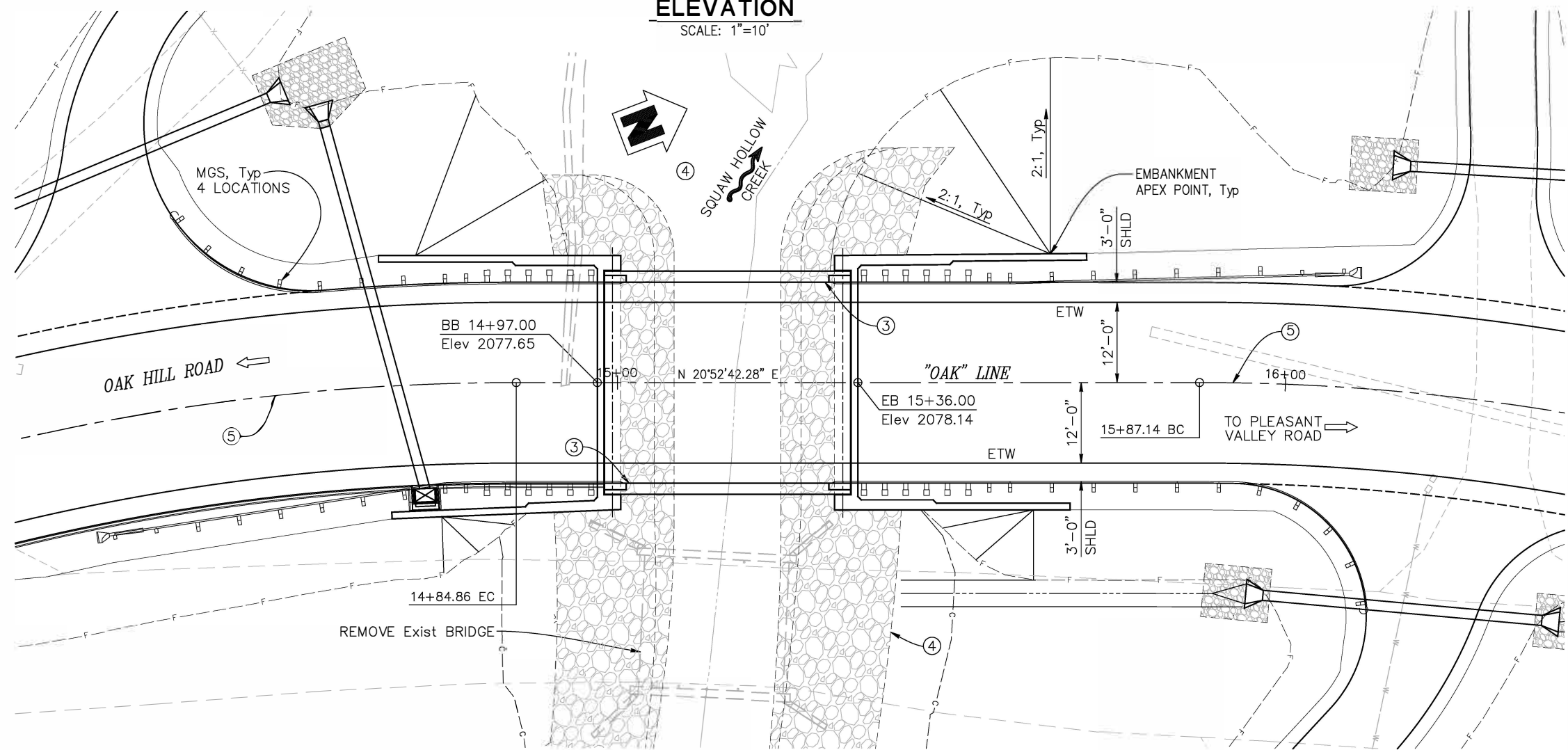


ELEVATION

SCALE: 1"=10'

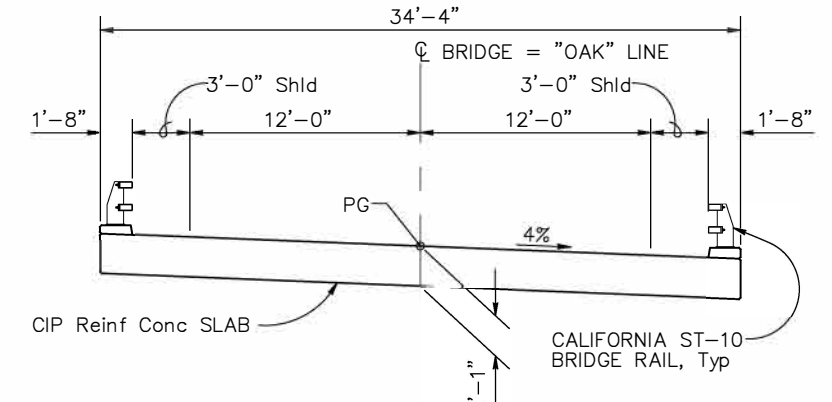
LEGEND:
 ——— DENOTES EXISTING STRUCTURE
 ——— DENOTES PROPOSED STRUCTURE

- NOTES:**
- For General Notes, Deck Contours, Caltrans Standard Plan List, Concrete Strength and Type Limits, Estimated Quantities see "GENERAL NOTES" sheet.
 - For temporary traffic control see "Road Plans".
 - Paint "Oak Hill Road Bridge" and "Br No. 25C0137".
 - ROCK SLOPE PROTECTION (LIGHT, METHOD B). For limits, see "ROCK SLOPE PROTECTION" sheet in "ROAD PLANS".
 - See "ROAD PLANS" for curve data.



PLAN

SCALE: 1"=10'



TYPICAL SECTION

SCALE: 1"=5'

INDEX TO PLANS

SHEET No.	TITLE
S-1	GENERAL PLAN
S-2	GENERAL NOTES
S-3	FOUNDATION PLAN
S-4	ABUTMENT LAYOUT
S-5	ABUTMENT DETAILS NO. 1
S-6	ABUTMENT DETAILS NO. 2
S-7	ABUTMENT DETAILS NO. 3
S-8	SLAB REINFORCEMENT DETAILS
S-9	LOG OF TEST BORINGS 1 OF 2
RW-1	RETAINING WALL NO. 1 GENERAL PLAN
RW-2	RETAINING WALL DETAILS NO. 1
RW-3	RETAINING WALL DETAILS NO. 2
RW-4	LOG OF TEST BORINGS 2 OF 2

GENERAL PLAN
SCALE: AS SHOWN



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER

DESIGNED: MAI
 DRAWN: REU
 CHECKED: KG
 DATE:
 ROAD NUMBER: 031

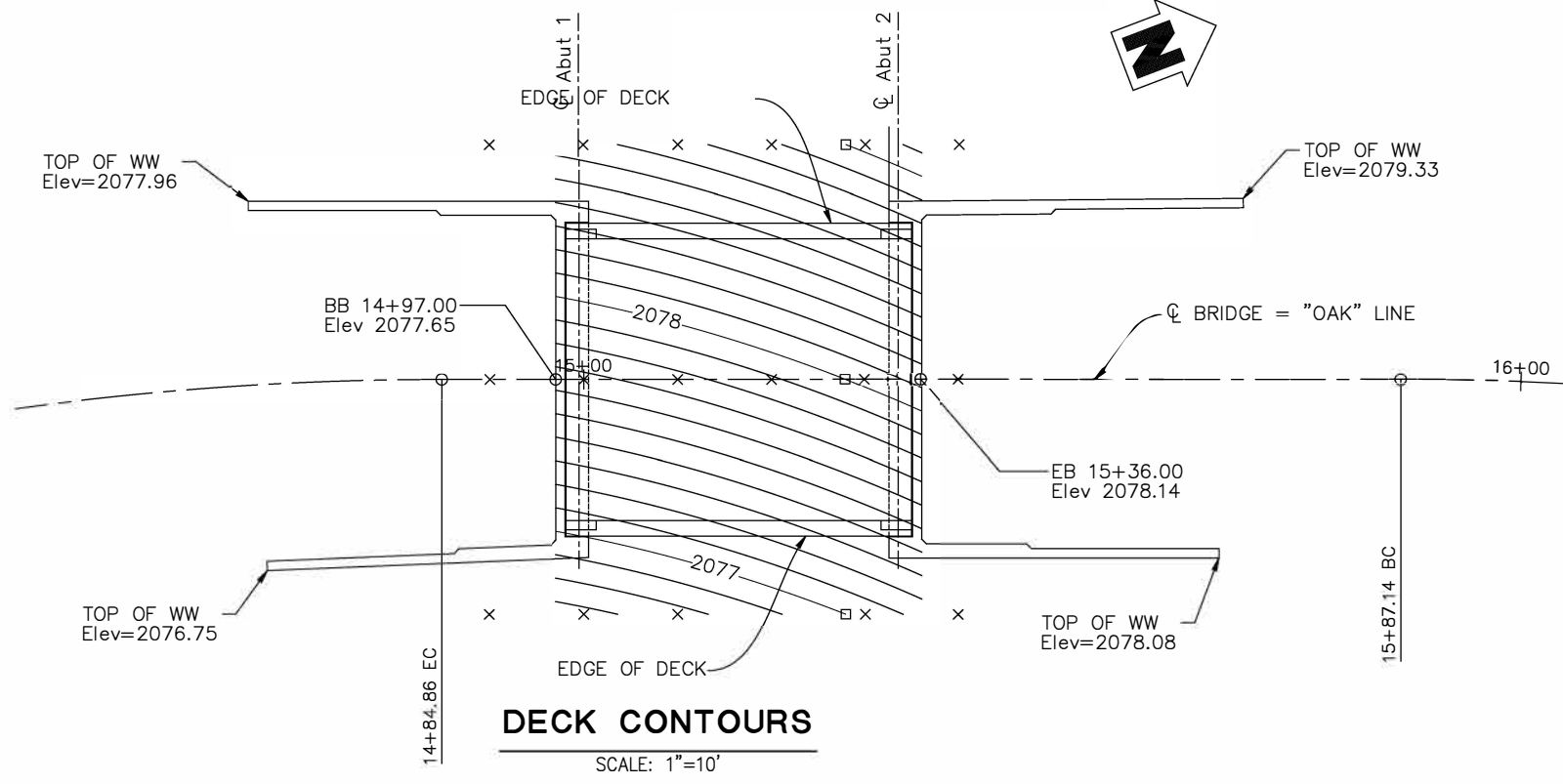


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT

S-1
 33 OF 45
 W.O. No. 77134

TIME PLOTTED -> \$TIME
 DATE PLOTTED -> \$DATE
 USERNAME -> \$USER
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS

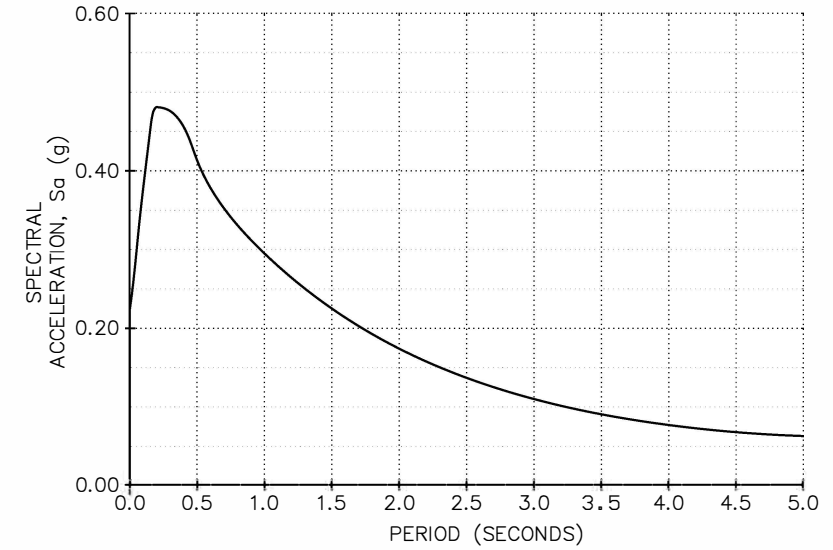


DECK CONTOURS
SCALE: 1"=10'

- NOTES:
1. Contours indicate top of deck elevation.
 2. □ indicates even 1.00 foot contours.
 3. X indicates 10' intervals measured along CL Bridge.
 4. Contour interval = 0.10'
 5. Contours do not include allowances for camber or falsework settlement.

**GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN**

- DESIGN : AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments, preface dated January 2014.
- SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7 dated April 2013.
- DEAD LOAD: Includes 35 psf for future wearing surface.
- LIVE LOADING: LRFD HL93 and Permit Design with "Low Boy" and Permit Design Vehicle.
- SEISMIC LOADING: Soil Profile: Type "D", VS30=220ms
Moment Magnitude: 7.0
Peak Ground Acceleration = 0.223 g
- REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi (Superstructure)
 $f'_c = 3.6$ ksi (Substructure)
 $n=8$
- STRUCTURAL STEEL: $f_y = 50$ ksi (ASTM A588)(BRIDGE RAILING)



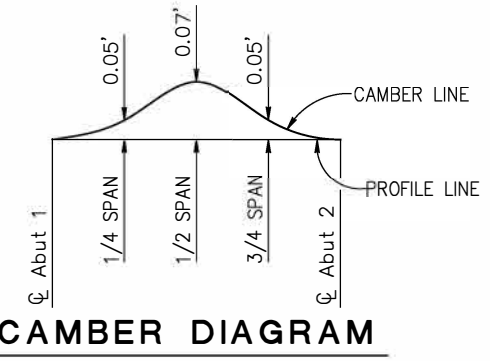
ACCELERATION RESPONSE SPECTRUM CURVE

CALTRANS STANDARD PLANS, 2015 EDITION

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
B0-1	BRIDGE DETAILS
RSP B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B11-68	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 1 OF 3)
B11-69	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 2 OF 3)
B11-70	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 3 OF 3)

APPROXIMATE QUANTITIES

ITEM DESCRIPTION	QUANTITY	UNIT
BRIDGE REMOVAL	1	LS
STRUCTURE EXCAVATION (TYPE D)	377	CY
STRUCTURAL EXCAVATION (BRIDGE)	65	CY
STRUCTURE BACKFILL (BRIDGE)	480	CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	95	CY
STRUCTURAL CONCRETE, BRIDGE	230	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	95	CY
BAR REINFORCING STEEL (BRIDGE)	57,000	LB
CALIFORNIA ST-10 BRIDGE RAIL	74	LF



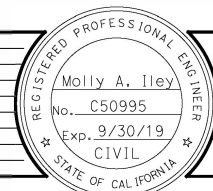
CAMBER DIAGRAM



- CONCRETE STRENGTH AND TYPE LIMITS**
- STRUCTURAL CONCRETE, BRIDGE
 - ▨ STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)
 - ▣ STRUCTURAL CONCRETE, BRIDGE FOOTING

CONCRETE STRENGTH AND TYPE LIMITS

GENERAL NOTES
SCALE: AS SHOWN



PREPARED UNDER THE SUPERVISION OF :
Molly A. Iley
No. C50995
Exp. 9/30/19
CIVIL
REGISTERED CIVIL ENGINEER

DESIGNED: MAI
DRAWN: REU
CHECKED: KG
DATE:
ROAD NUMBER: 031



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

**OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT**

S-2
34 OF 45
W.O. No. 77134

BENCH MARK

SEE "SURVEY AND CONTROL DIAGRAM" SHEET IN "ROAD PLANS"

HYDROLOGIC SUMMARY

DRAINAGE AREA 5.44 SQ MI

	DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD	RECORD FLOOD
FREQUENCY, YEARS	50	100	X	X
DISCHARGE CUBIC ft./sec.	1068	1285	X	X
WATER SURFACE ELEVATION AT BRIDGE	2066.00	2066.49	X	X

NOTE:
Flood Plain Data is based upon information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted by the Designer and interested or affected parties should make their own investigation.

CURVE DATA

No. @	R	Δ	T	L
1	333.00	58°23'06.18"	186.05	339.33
2	333.00	20°45'49.30"	61.01	120.68

SCOUR DATA TABLE

SUPPORT No.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (ft) ₁	SHORT TERM (LOCAL) SCOUR DEPTH (ft) ₂
ABUTMENT 1	1.22	17.6
ABUTMENT 2	1.22	17.5

1. Long term aggradation and degradation at this location is negligible.
2. Local Scour depth shown is based on the upper layer of soil only. The analysis neglects the resistance of the underlying dense soils and rock layers and does not include the effect of the planned rip-rap protection.

LEGEND

- DENOTES EXISTING STRUCTURE
- DENOTES PROPOSED STRUCTURE
- 2055.00 DENOTES BOTTOM OF FOOTING ELEVATION
- DENOTES ROCK SLOPE PROTECTION. FOR LIMITS SEE "ROCK SLOPE PROTECTION" SHEET IN "ROAD PLANS".

NOTES

1. Utility relocation not shown. Utilities in conflict will be relocated for bridge construction. See "Road Plans" for utility work.

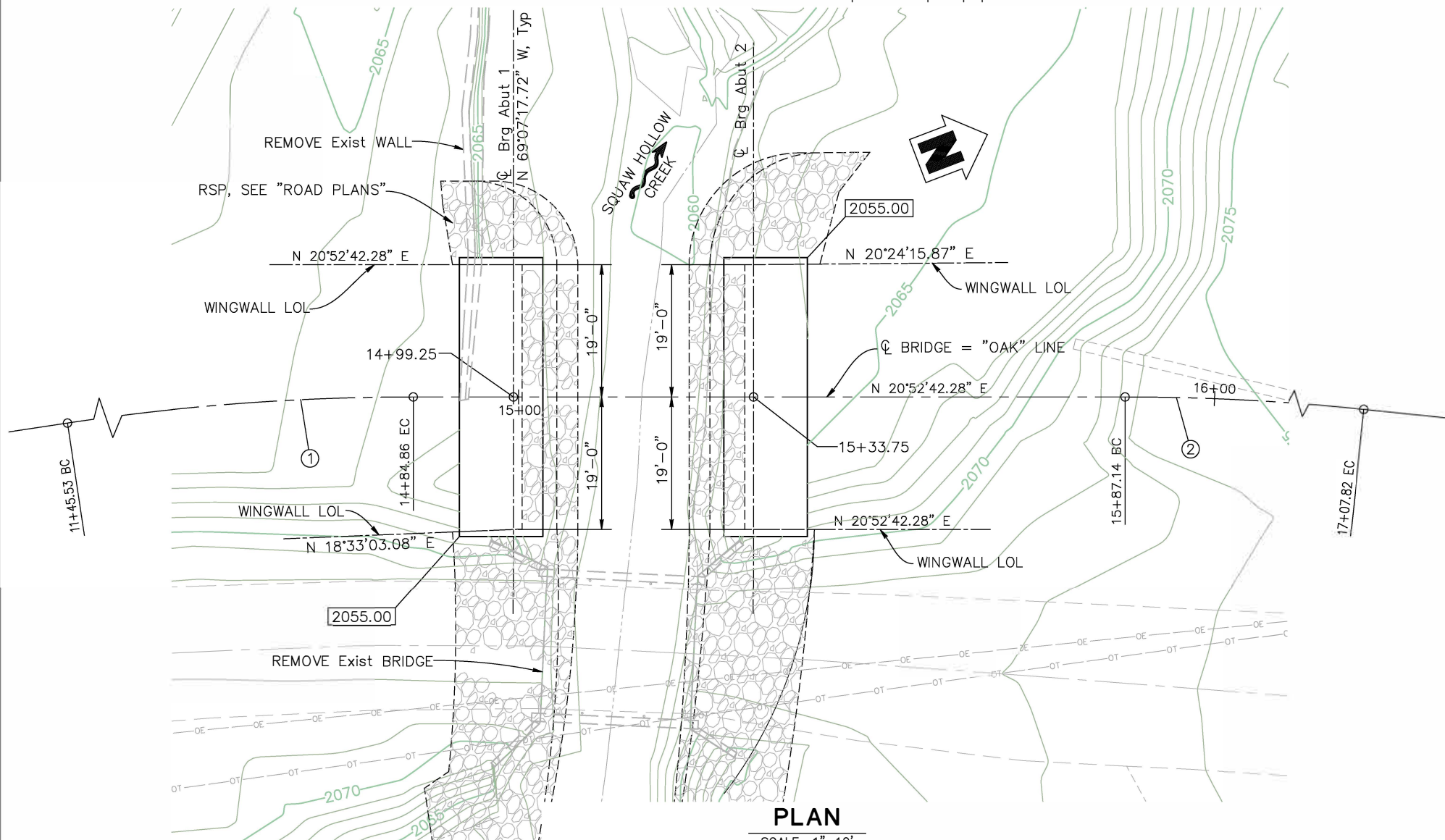
SPREAD FOOTING DATA TABLE

SUPPORT LOCATION	SERVICE ² PERMISSIBLE CONTACT STRESS (SETTLEMENT) (ksf)	STRENGTH/CONSTRUCTION ³ FACTORED GROSS NOMINAL BEARING RESISTANCE φ _s =0.45 (ksf)	EXTREME EVENT ³ FACTORED GROSS NOMINAL BEARING RESISTANCE φ _s = 1.00 (ksf)
Abut 1	7.4	4.8	N/A
Abut 2	7.4	4.8	N/A

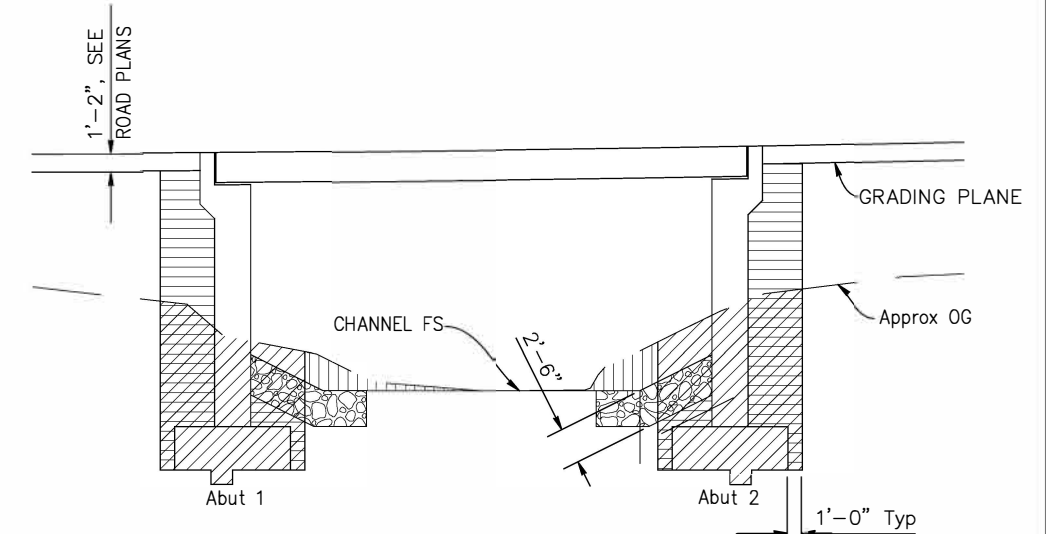
1. Controlling load combination is the one resulting in the highest ratio of $q_{g,u}/q_R$ for foundations on soil, or $q_{g,max}/q_R$ for foundation on rock.
2. Controlling load combination for Service Limit State is the one resulting in the highest ratio of $q_{n,u}/q_{pn}$ for foundations on soil, or $q_{g,max}/q_R$ for foundations on rock.
3. Controlling load combination for Strength, Construction, and Extreme Event is the one resulting in the highest ratio of $q_{g,u}/q_R$ for foundation on soil, or $q_{g,max}/q_R$ for foundations on rock.

NOTES:

1. See "LOG OF TEST BORINGS" sheet and GEOTECHNICAL Engineering Report regarding expected soil conditions.



PLAN
SCALE: 1"=10'



- CREEK EXCAVATION (SEE "ROAD PLANS")
- STRUCTURE EXCAVATION (BRIDGE) TYPE D
- STRUCTURE BACKFILL (BRIDGE)

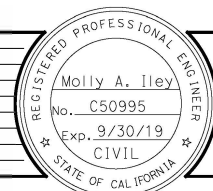
EARTHWORK PAY LIMITS

NO SCALE

NOTE: For limits at Wingwalls, see Caltrans Std Plan A62C.

FOUNDATION PLAN
SCALE: AS SHOWN

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES USERNAME -> \$USER DATE PLOTTED -> \$DATE TIME PLOTTED -> \$TIME



PREPARED UNDER THE SUPERVISION OF:
Molly A. Iley
No. C50995
Exp. 9/30/19
CIVIL
REGISTERED CIVIL ENGINEER

DESIGNED: MAI
DRAWN: REU
CHECKED: KG
DATE:
ROAD NUMBER: 031

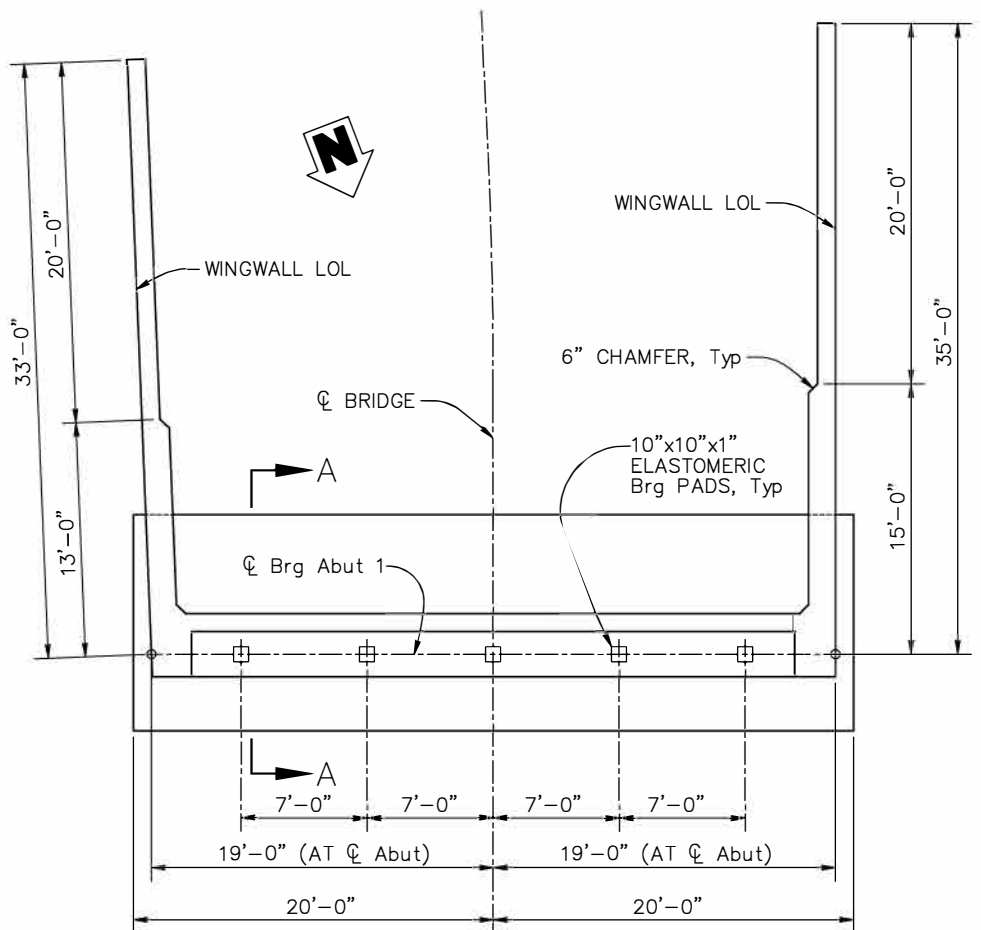


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

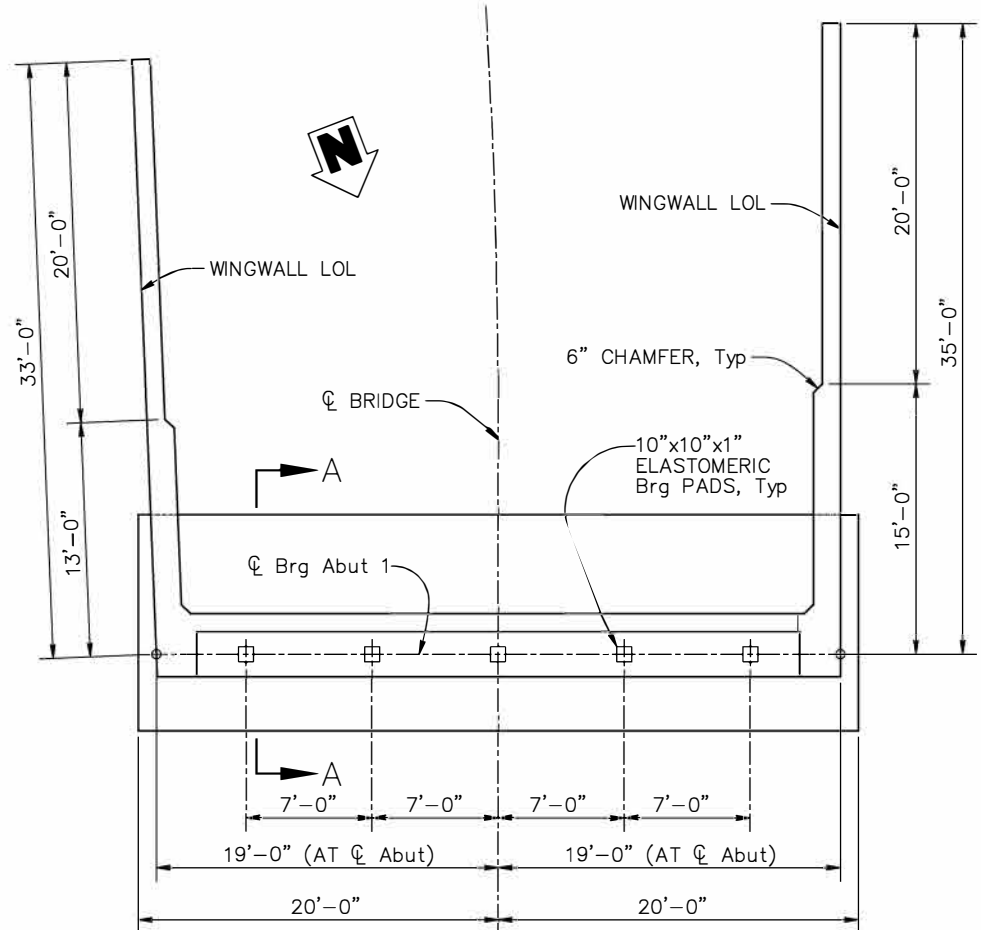
OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT

S-3
35 OF 45
W.O. No. 77134

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 ORIGINAL SCALE IS IN INCHES
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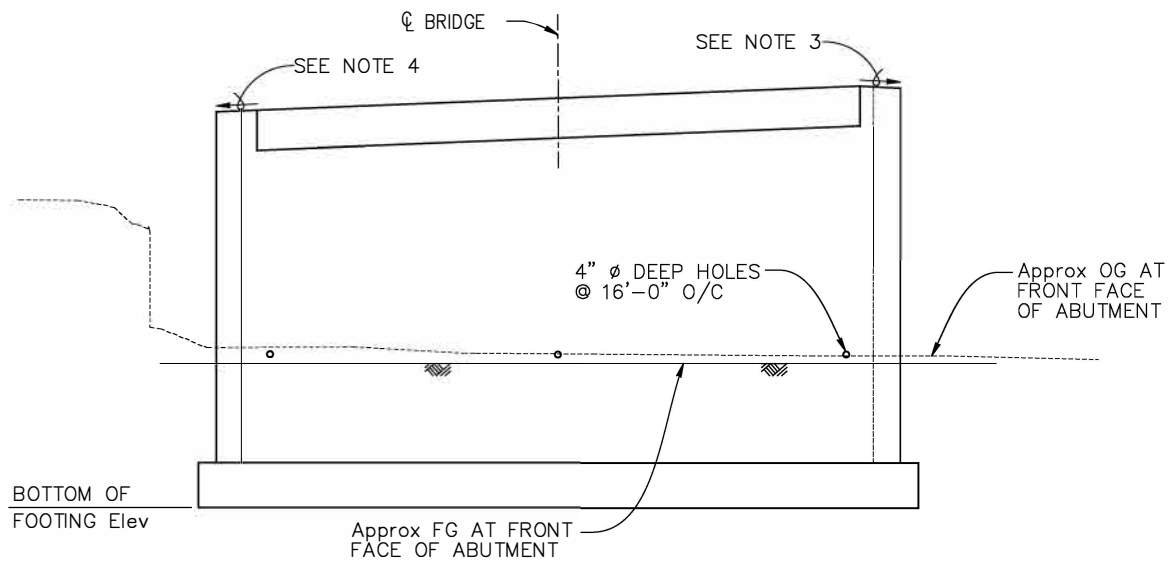


ABUTMENT 1 PLAN
 SCALE: 3/16" = 1'-0"
 BO-1 RSP BO-3

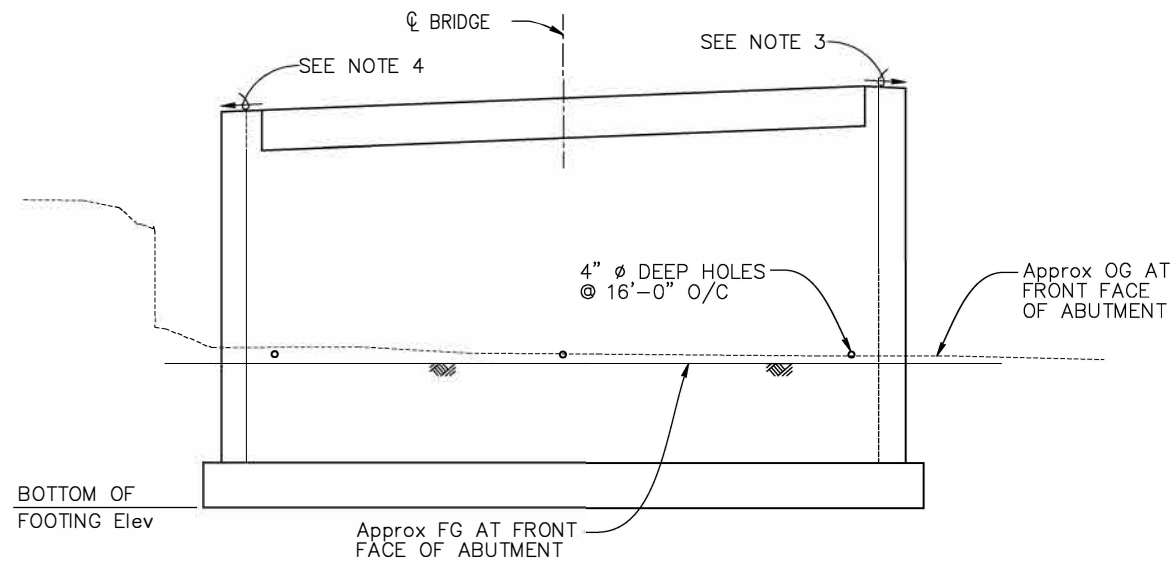


ABUTMENT 1 PLAN
 SCALE: 3/16" = 1'-0"
 BO-1 RSP BO-3

- NOTES:**
1. For "SECTION A-A", and "CORNER DETAILS" not shown, see "ABUTMENT DETAILS No. 1" sheet.
 2. For wingwall details not shown, see "ABUTMENT DETAILS No. 2" sheet.
 3. Form top of shear key at a 5% slope to match the slope of the graded gravel shoulders on the roadway approaches.
 4. Form top of shear key at a 4% slope to match bridge deck.



ABUTMENT 1 ELEVATION
 SCALE: 3/16" = 1'-0"
 BO-1 RSP BO-3



ABUTMENT 1 ELEVATION
 SCALE: 3/16" = 1'-0"
 BO-1 RSP BO-3

ABUTMENT LAYOUT
 SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER

DESIGNED: MAI
 DRAWN: REU
 CHECKED: KG
 DATE:
 ROAD NUMBER: 031

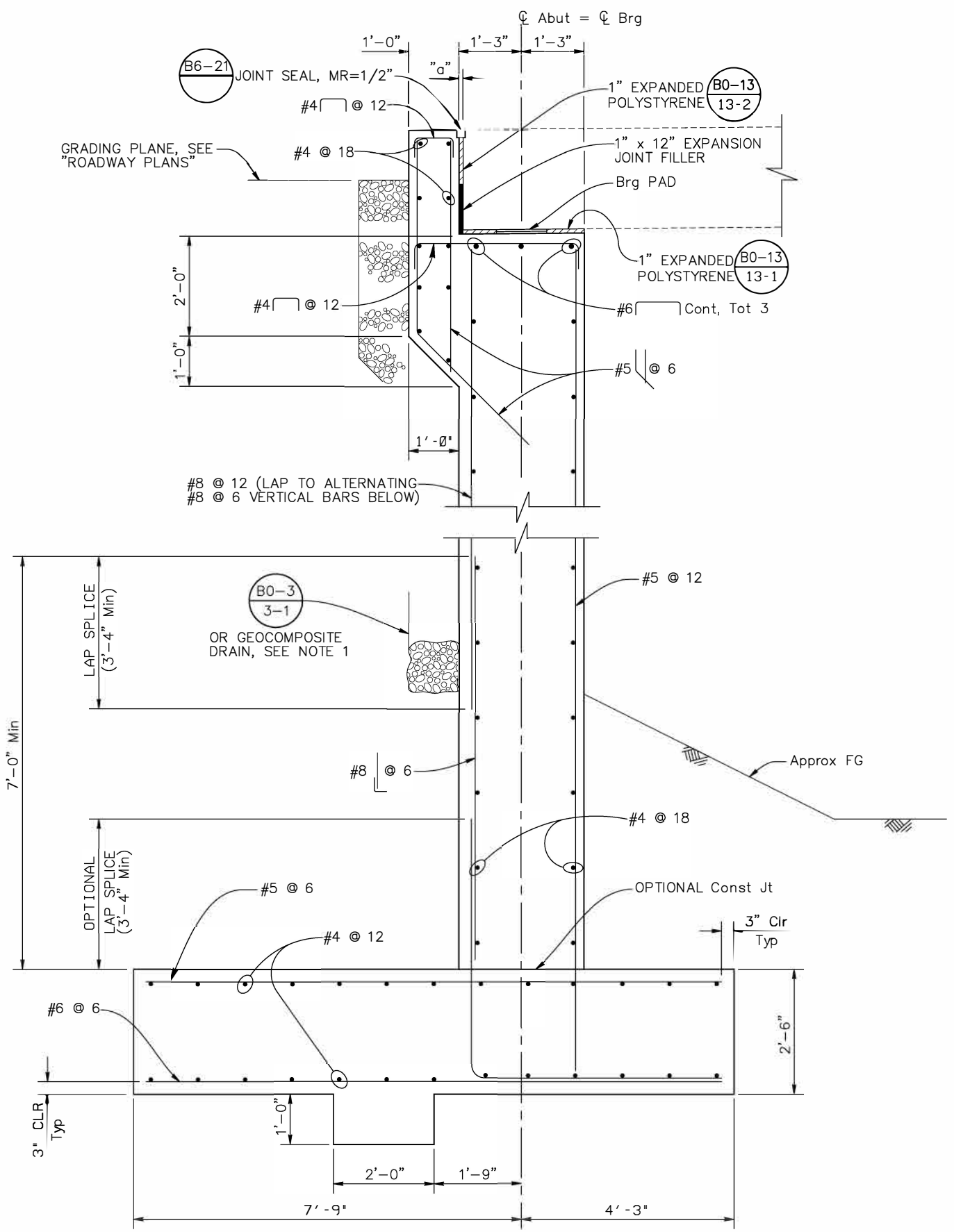


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

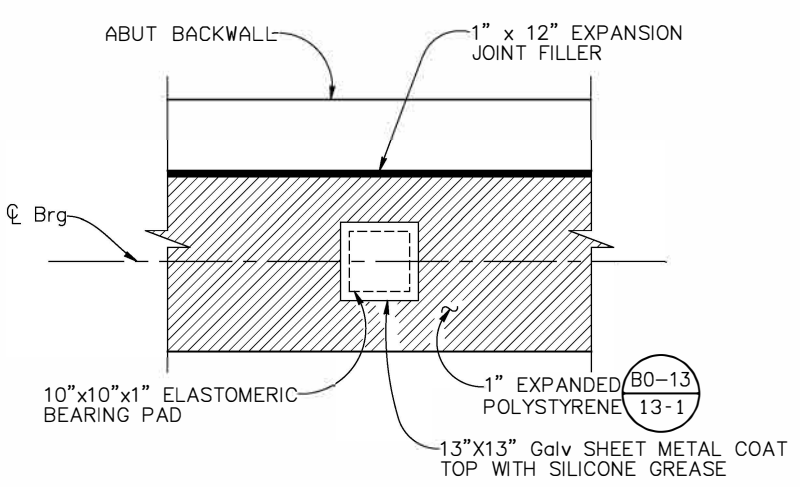
**OAK HILL ROAD AT SQUAW HOLLOW CREEK
 BRIDGE REPLACEMENT**

S-4
 36 OF 45
 W.O. No. 77134

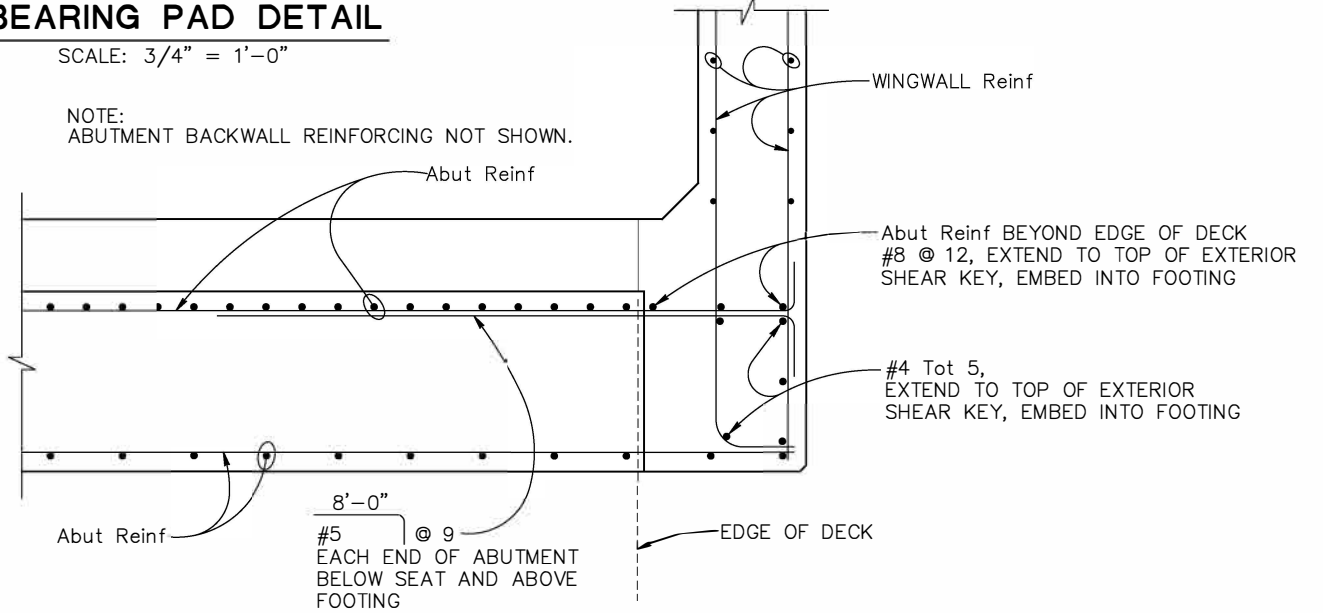
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 FOR REDUCED PLANS
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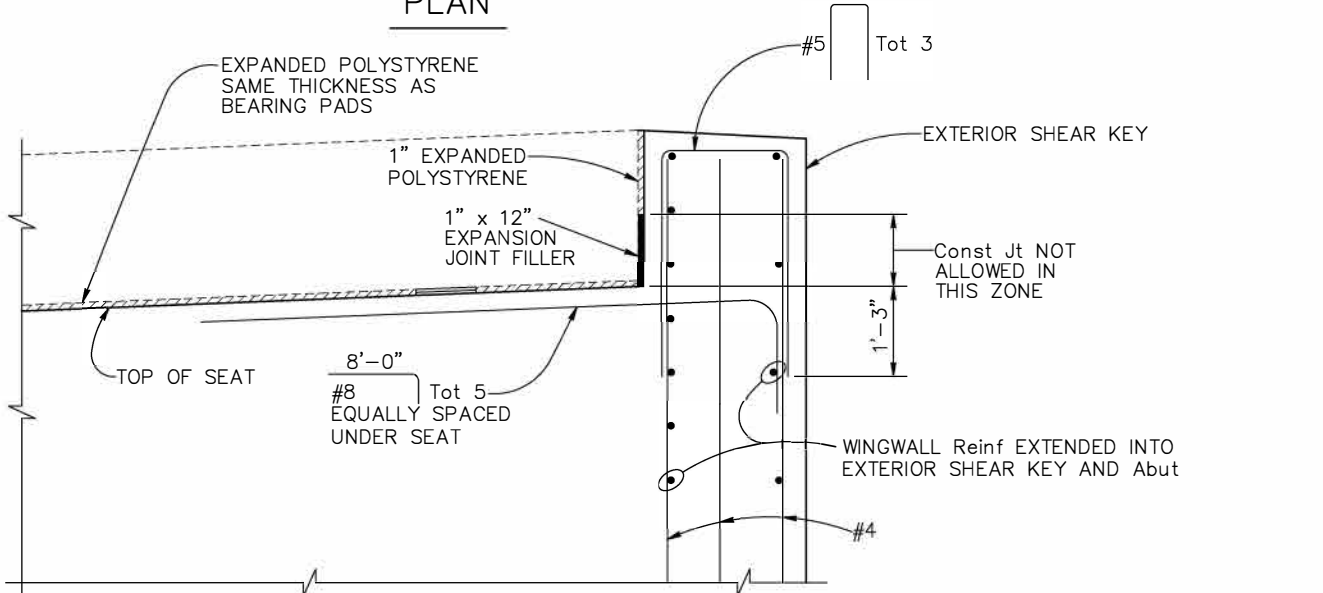
SECTION A-A
SCALE: 3/4" = 1'-0"



BEARING PAD DETAIL
SCALE: 3/4" = 1'-0"



PLAN



ELEVATION

CORNER DETAILS
SCALE: 3/4" = 1'-0"

NOTES:
 1. Contractor may use Pervious Backfill or Geocomposite Drain. For Weep Hole and Geocomposite Drain Detail, see "ABUTMENT DETAILS NO. 3" sheet.

ABUTMENT DETAILS NO. 1
SCALE: AS SHOWN



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER

DESIGNED: MAI
 DRAWN: REU
 CHECKED: KG
 DATE:
 ROAD NUMBER: 031

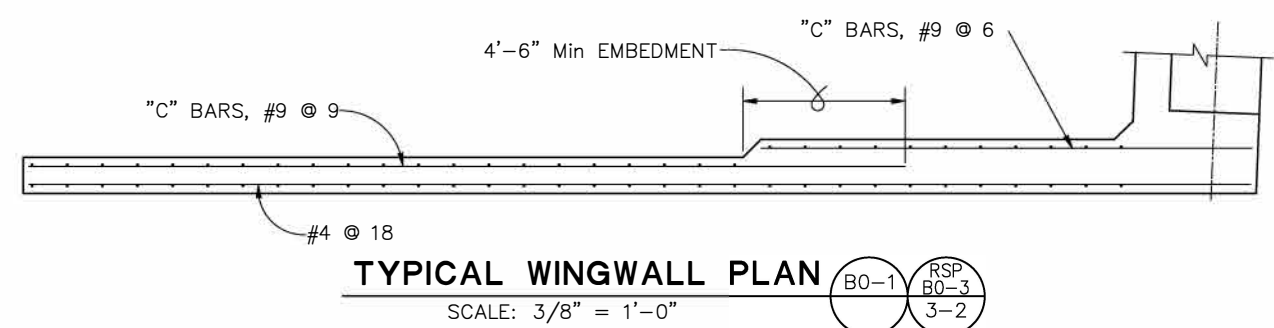


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

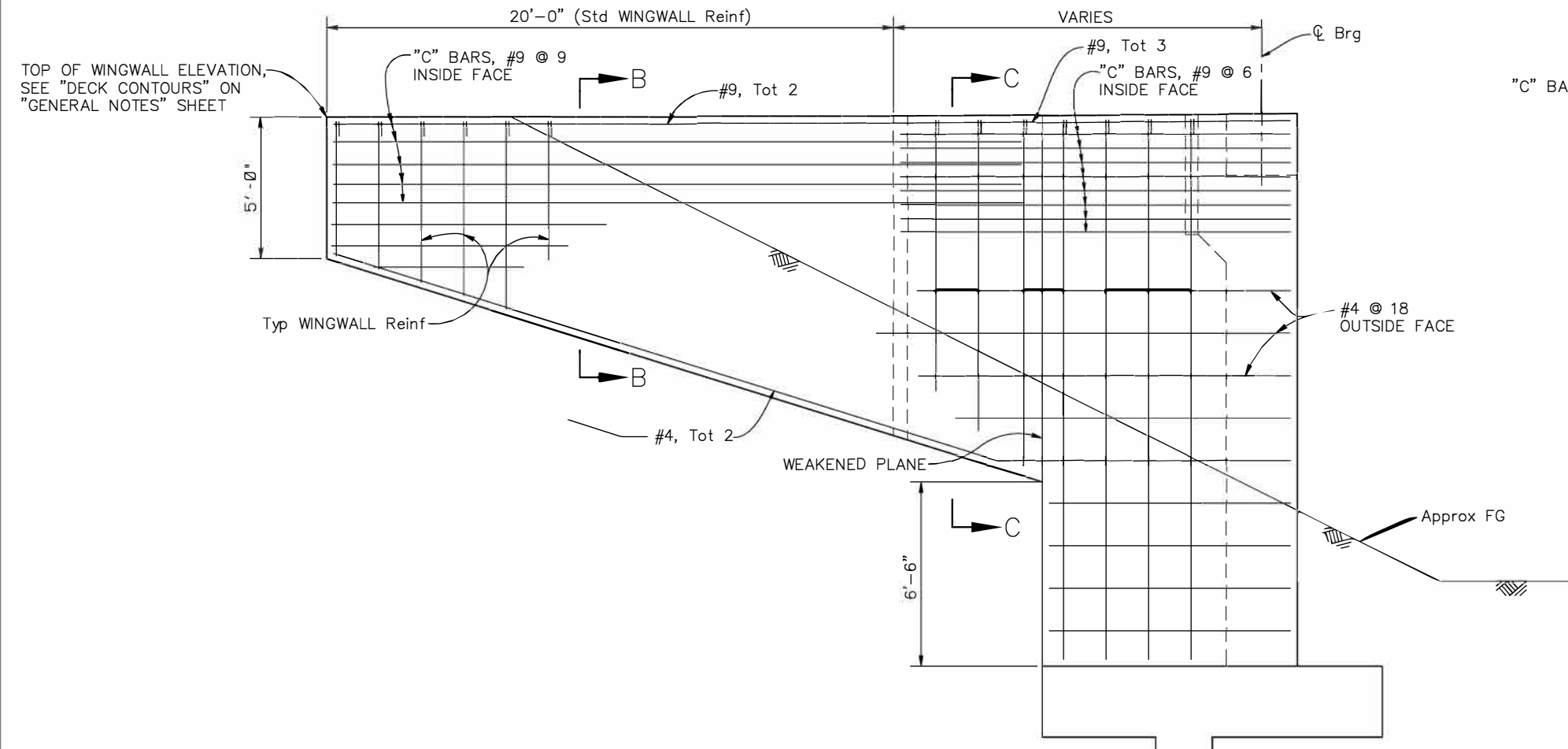
OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT

S-5
 37 OF 45
 W.O. No. 77134

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 DATE PLOTTED -> \$DATE
 USERNAME -> \$USER
 ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS

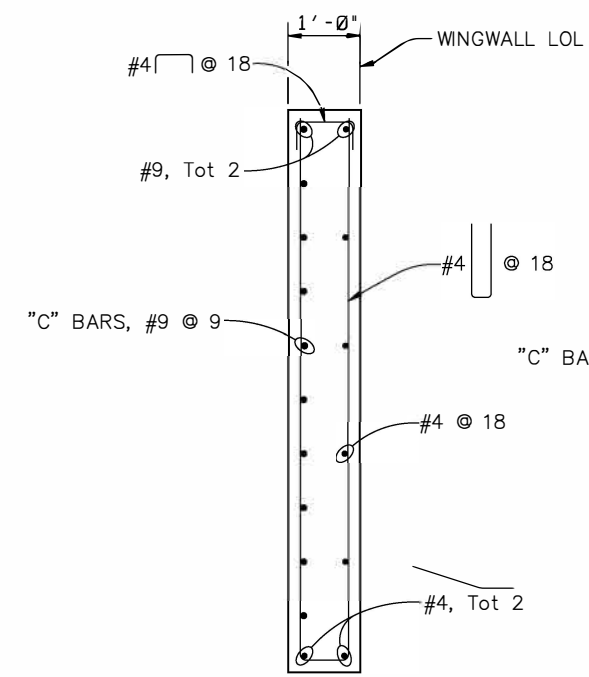


TYPICAL WINGWALL PLAN
 SCALE: 3/8" = 1'-0"
 B0-1 RSP B0-3 3-2

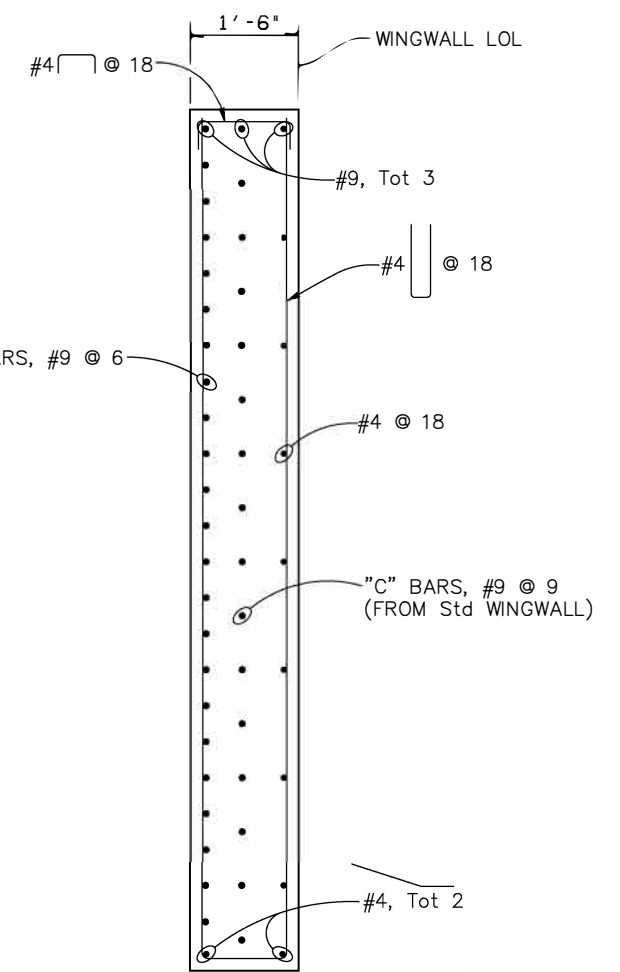


TYPICAL WINGWALL ELEVATION
 SCALE: 3/8" = 1'-0"
 B0-1 RSP B0-3 3-2

NOTES:
 1. For wingwall details not shown see B0-1



SECTION B-B
 SCALE: 3/4" = 1'-0"



SECTION C-C
 SCALE: 3/4" = 1'-0"

ABUTMENT DETAILS NO. 2
 SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: MAI
 DRAWN: REU
 CHECKED: KG
 DATE: _____
 ROAD NUMBER: 031

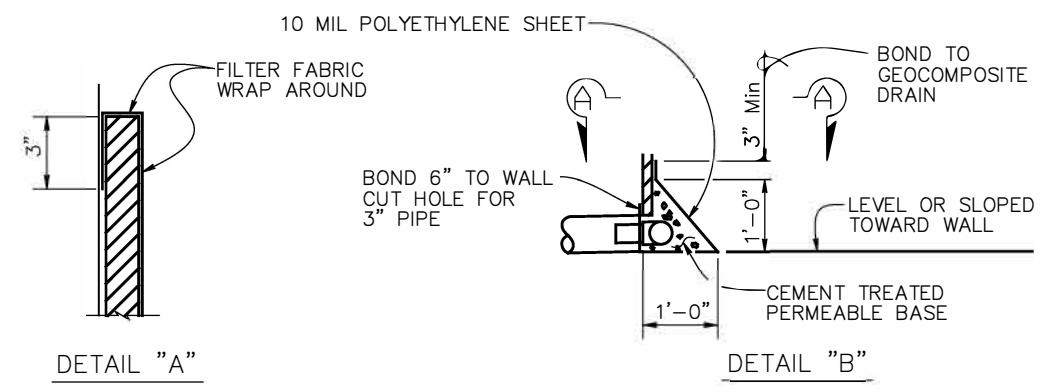
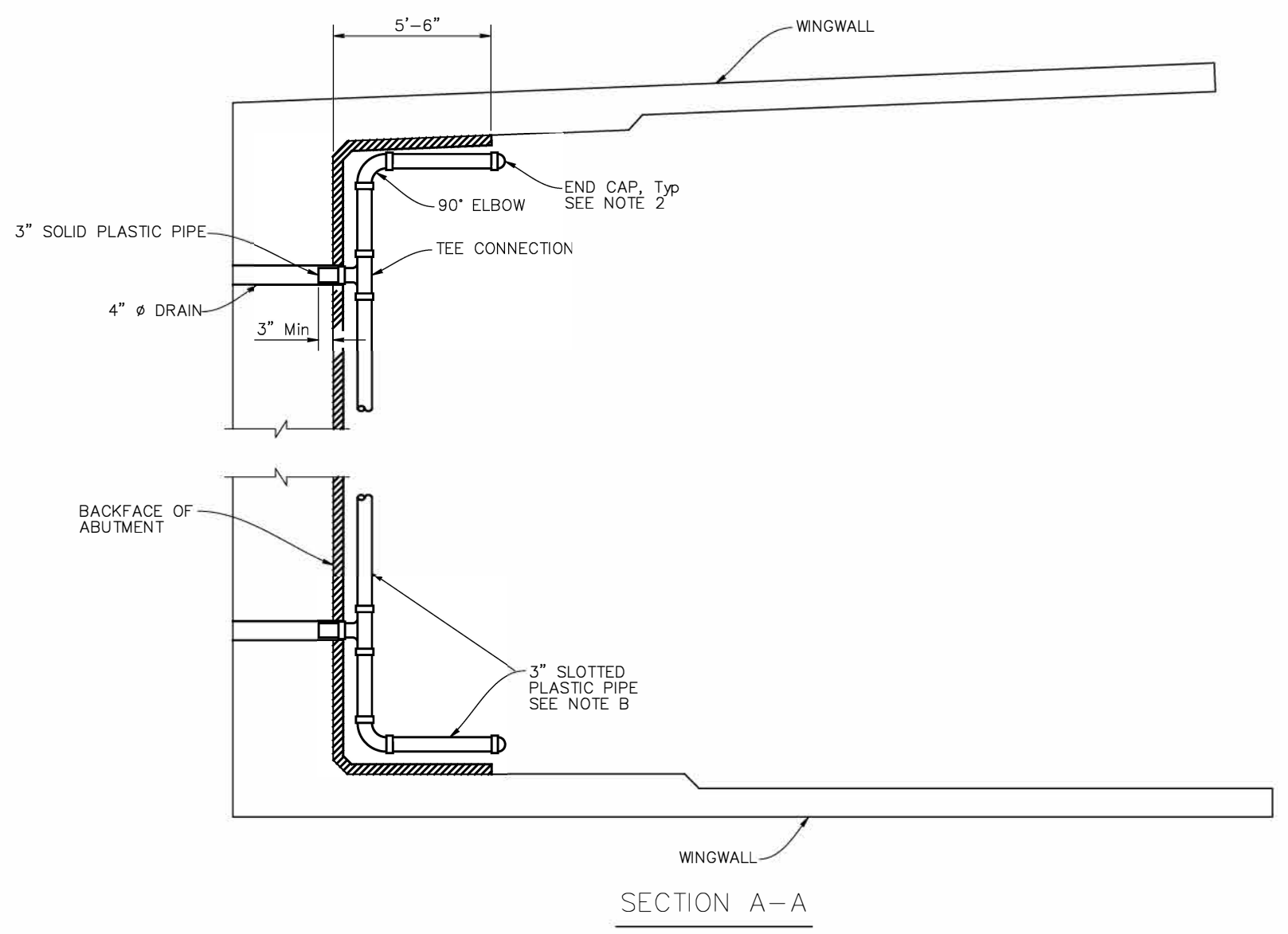
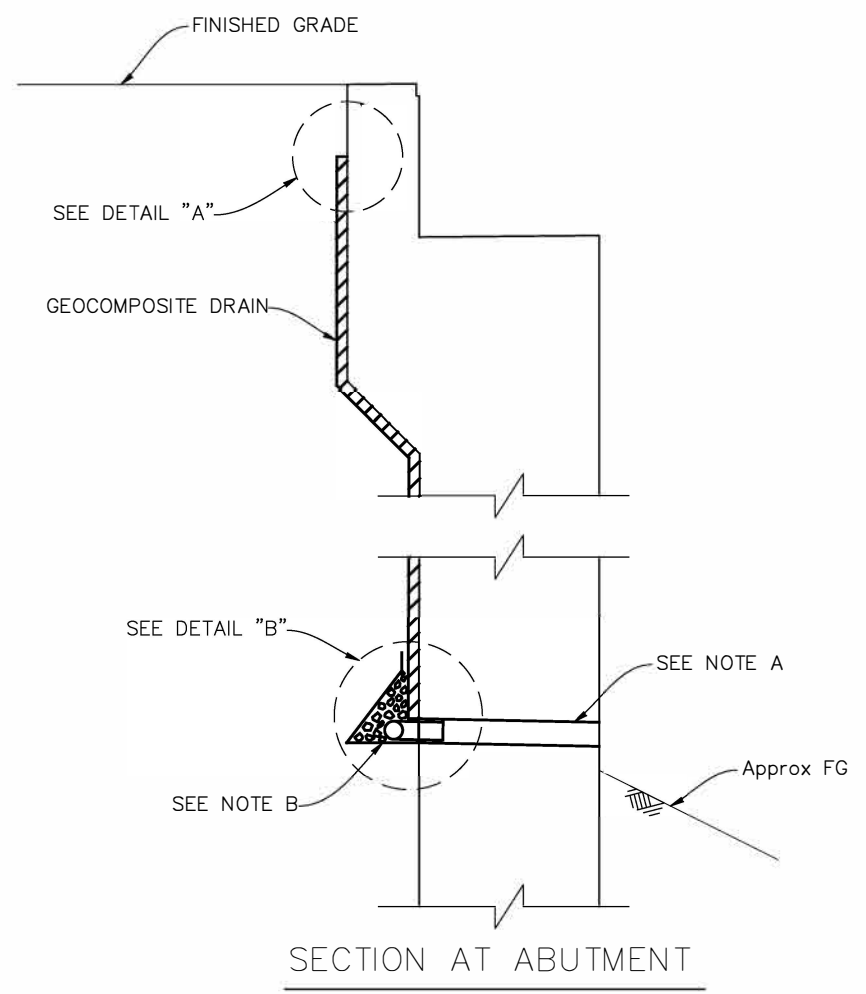


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT

S-6
 38 OF 45
 W.O. No. 77134

TIME PLOTTED -> \$TIME
 DATE PLOTTED -> \$DATE
 USERNAME -> \$USER
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL

- NOTES:**
- A. 4" ϕ drains at sag points and at 25' Max center to center. Exposed wall drains shall be located 3" \pm above finished grade.
 - B. Geocomposite drain, cement treated permeable base, and 3" ϕ slotted plastic pipe continuous behind abutment. Cap ends of pipe. Provide "Tee" connection at each 4" ϕ drain.
 - C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

**ABUTMENT DETAILS NO. 3
NO SCALE**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 Molly A. Iley
 No. C50995
 Exp. 9/30/19
 CIVIL
 REGISTERED CIVIL ENGINEER
 STATE OF CALIFORNIA

DESIGNED: MAI
 CHECKED: KG
 ROAD NUMBER: 031
 DRAWN: REU
 DATE:

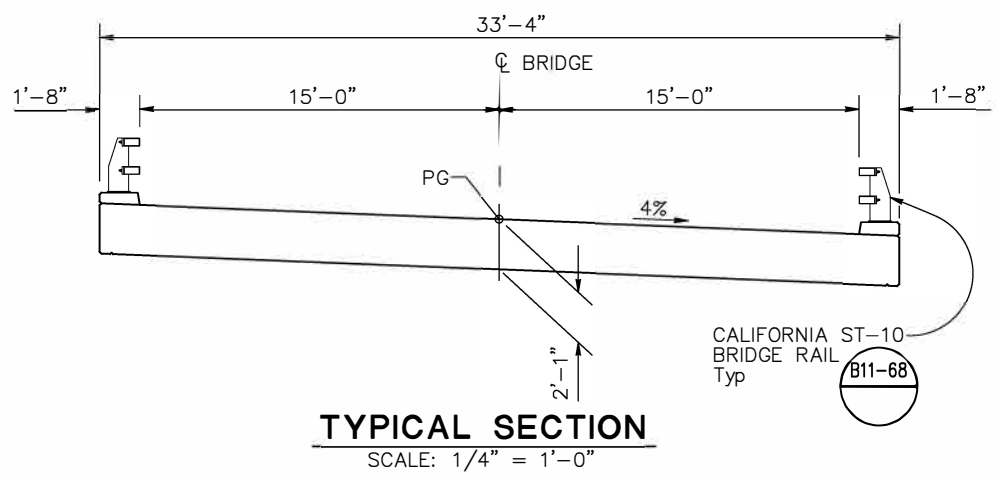


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

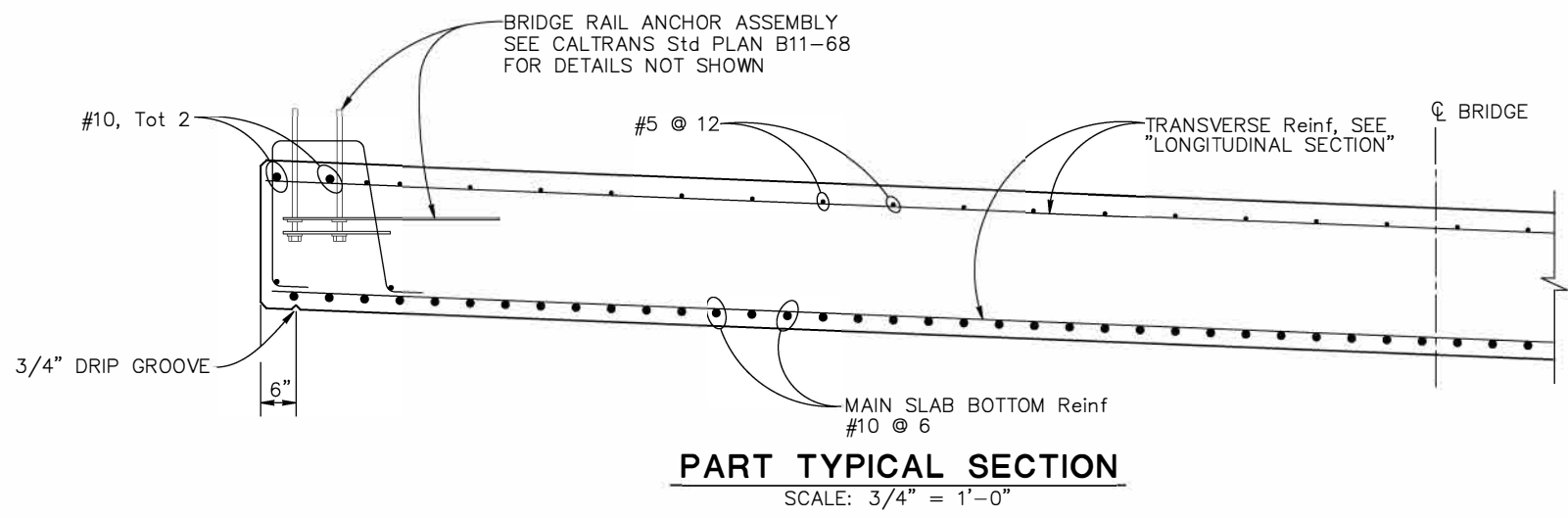
**OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT**

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 39 OF 45
 W.O. No. 77134

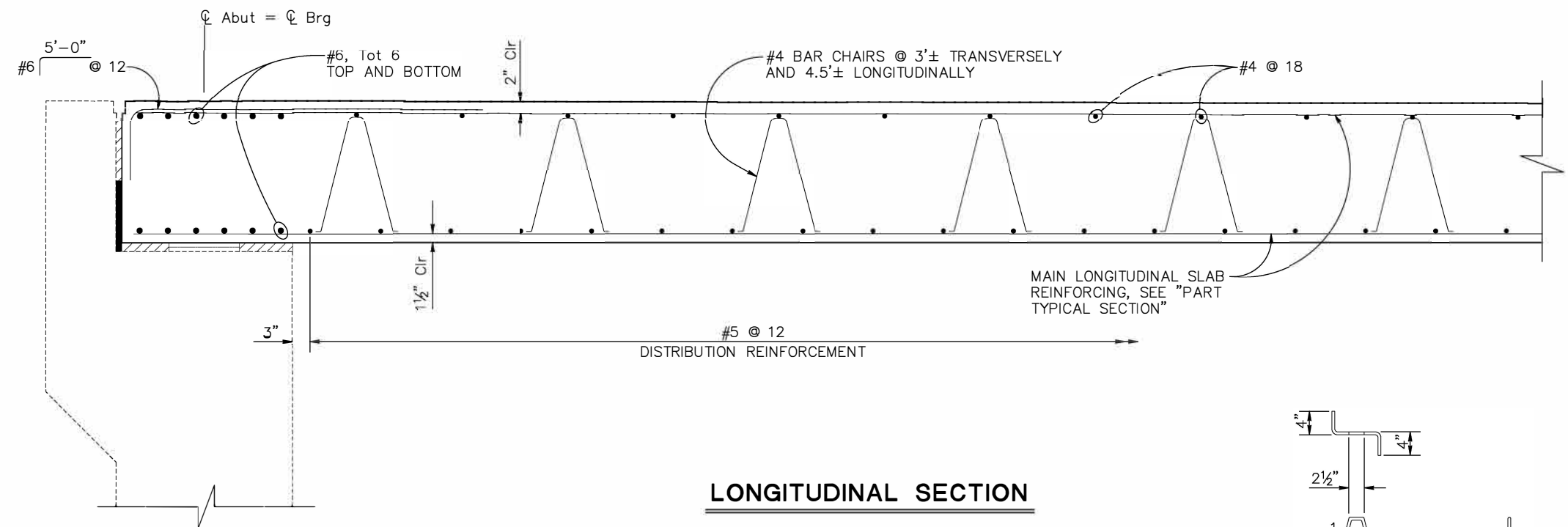
TIME PLOTTED -> \$TIME
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 ORIGINAL SCALE IS IN INCHES
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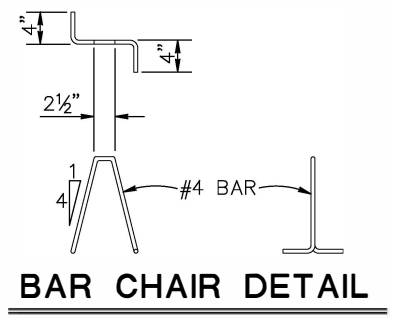
TYPICAL SECTION
SCALE: 1/4" = 1'-0"



PART TYPICAL SECTION
SCALE: 3/4" = 1'-0"



LONGITUDINAL SECTION



BAR CHAIR DETAIL

BAR SPLICE LENGTH								
BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
ALL BARS, EXCEPT TOP BARS IN SPANS OVER 24'	23"	28"	34"	43"	56"	71"	90"	110"
TOP BARS IN SPANS OVER 24'	23"	28"	34"	58"	74"	80"	115"	155"

REINFORCEMENT NOTES:
 Splices in top main bars to be located near center of span.
 Splices in bottom main bars to be located near bent.
 Spacing of all transverse bars is measured along C roadway.

SLAB REINFORCEMENT DETAILS
SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

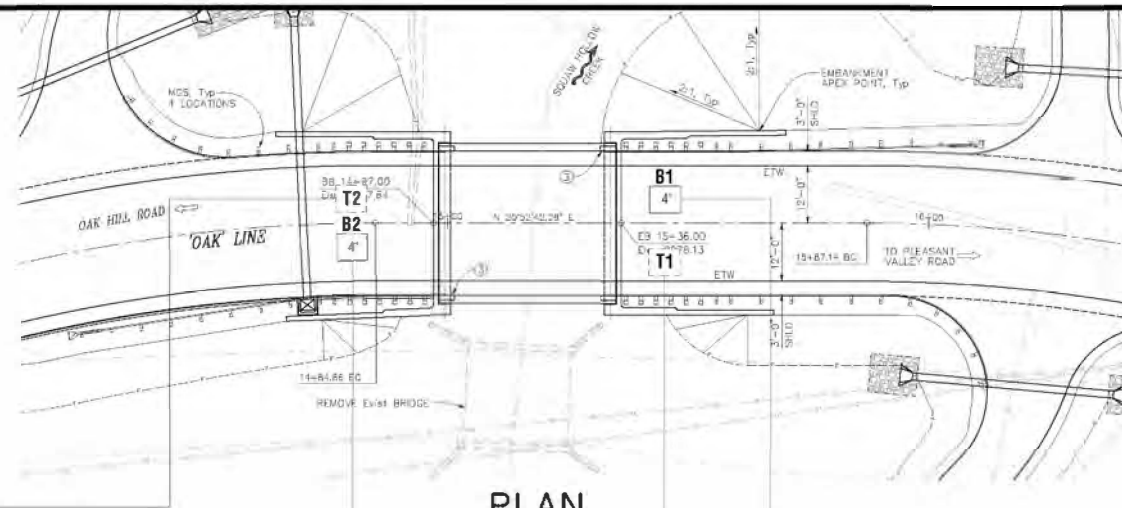
DESIGNED: MAI
 DRAWN: REU
 CHECKED: KG
 ROAD NUMBER: 031



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

**OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT**

S-8
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77134



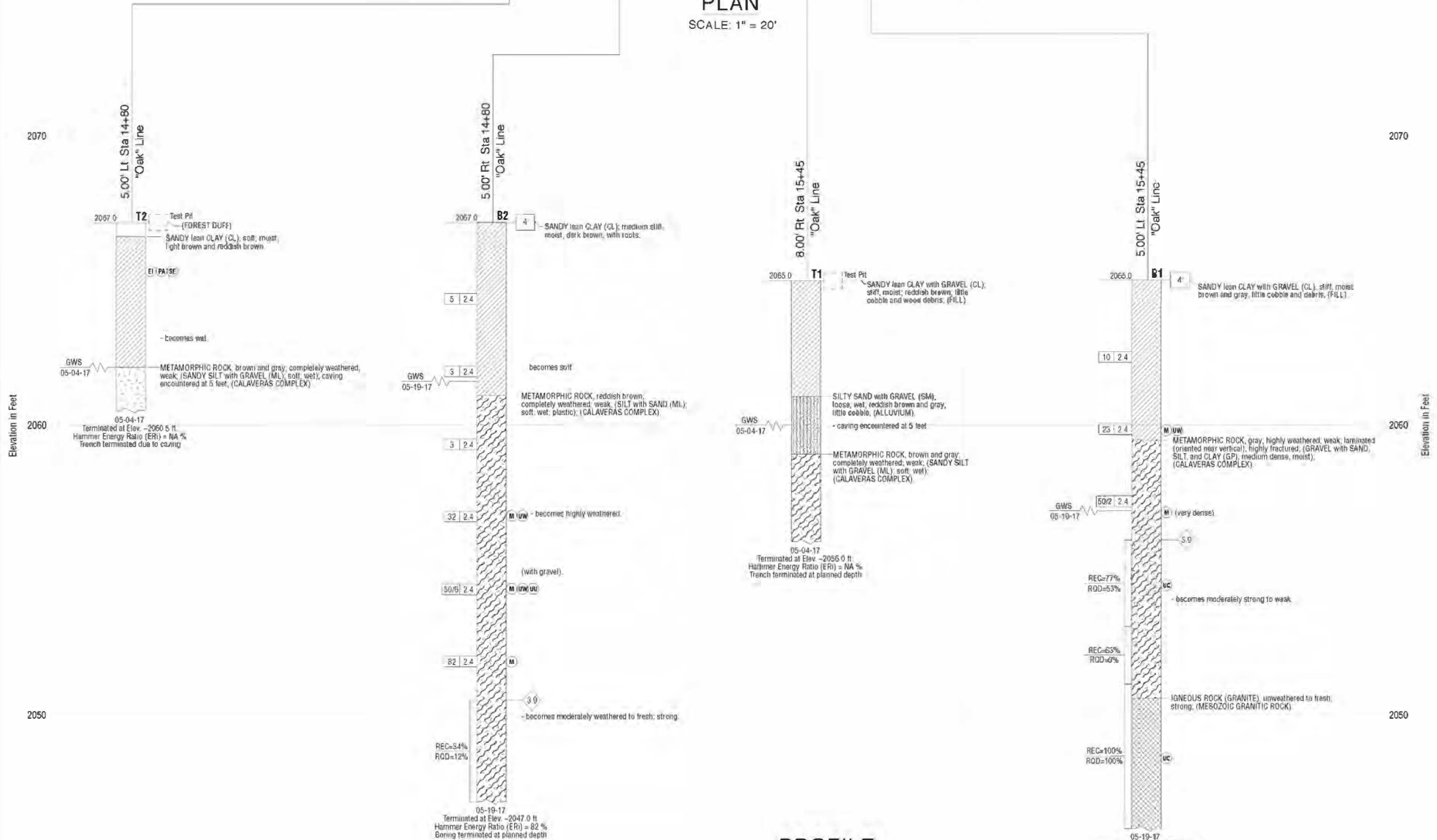
PLAN
SCALE: 1" = 20'

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

NOTES:

1. Relatively undisturbed soil samples were obtained by driving a 3-inch outside diameter, with a 2.5-inch inside diameter (California Modified) split-spoon sampler for Modified California Sampling Methods.
2. The boring logs and related information represent the opinion of the professional engineer/geologist as to the character of the material at the locations shown. Soil and groundwater conditions between adjacent test holes and at other locations may differ from those shown. Groundwater conditions may change with passage of time.
3. Test boring and test pit locations were determined in the field based on staking and pacing from mapped site features. The locations of the explorations should be considered accurate only to the degree implied by the measuring methods used.
4. A 140-pound automatic hammer falling 30 inches was used to drive samplers.
5. Visual classification of earth materials was based on field inspection and was confirmed or revised with laboratory test results.

BENCHMARK
Vertical Datum: NGVD 29



PROFILE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



OAK HILL ROAD AT SQUAW HOLLOW CREEK BRIDGE
LOG OF TEST BORINGS
EL DORADO COUNTY
CALIFORNIA

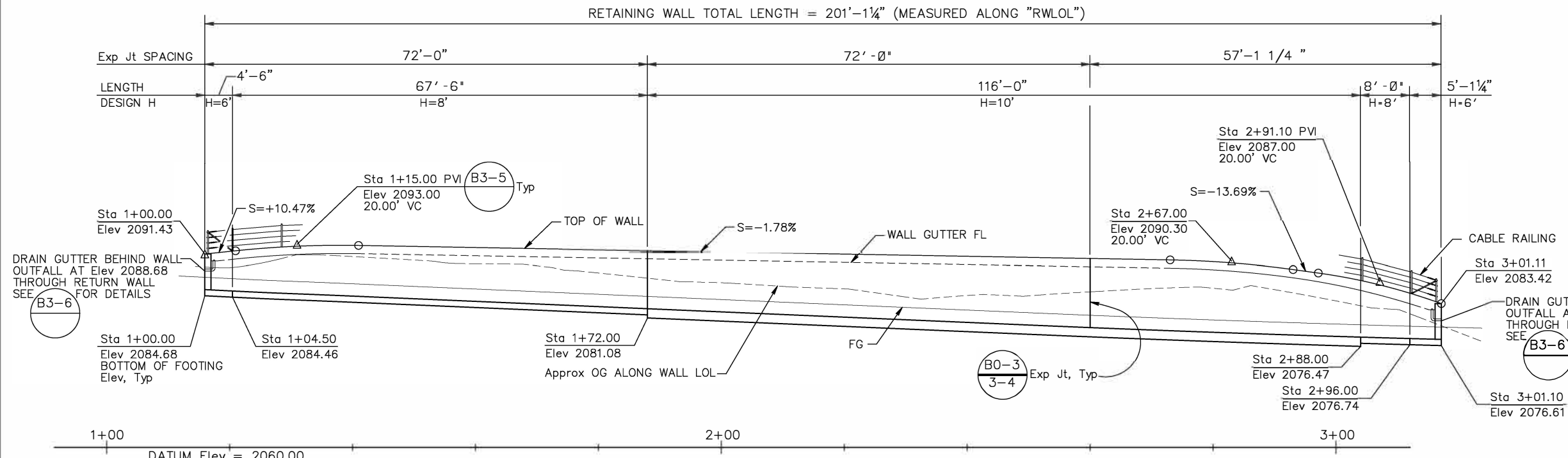
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41 OF 45
W.O. No. **77134**

SHEET 1 OF 2
PROJECT NO. S1320-05-01

NOTE:

1. For Typical Sections and details not shown, see "RETAINING WALL DETAILS NO. 1" sheet.
2. S = Slope of top of wall.

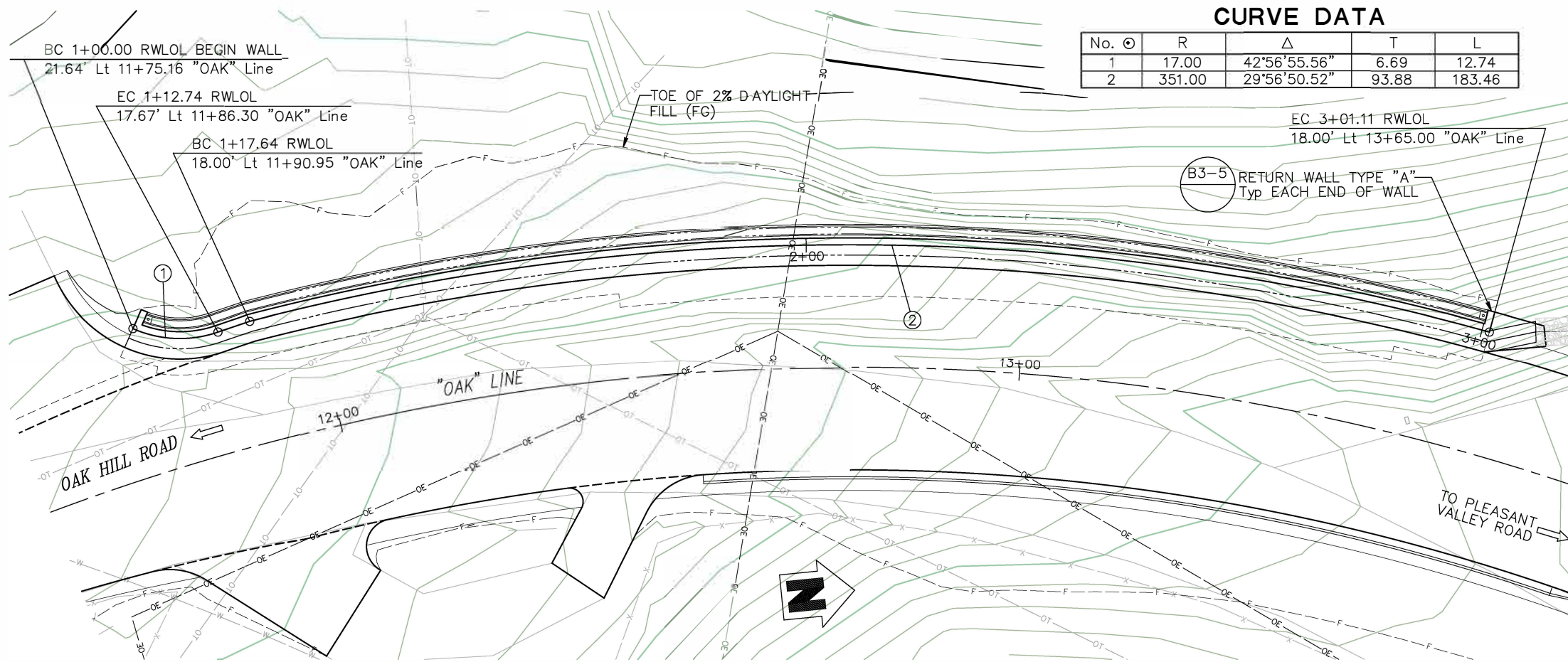
RETAINING WALL TOTAL LENGTH = 201'-1 1/4" (MEASURED ALONG "RWLOL")



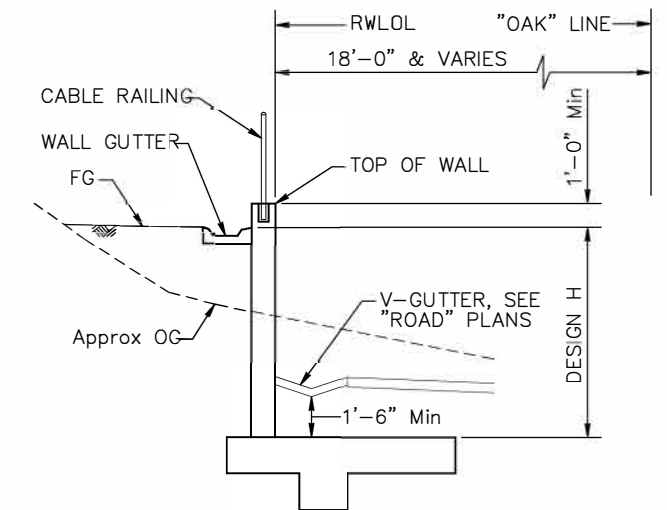
ELEVATION
SCALE: 1"=10'

CURVE DATA

No.	⊙	R	Δ	T	L
1		17.00	42°56'55.56"	6.69	12.74
2		351.00	29°56'50.52"	93.88	183.46



PLAN
SCALE: 1"=10'



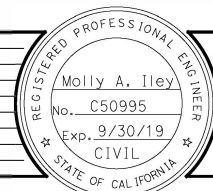
TYPICAL SECTION
SCALE: 1/4" = 1'-0"

APPROXIMATE QUANTITIES

ITEM DESCRIPTION	QUANTITY	UNIT
STRUCTURE EXCAVATION (RETAINING WALL)	320	CY
STRUCTURE BACKFILL (RETAINING WALL)	200	CY
STRUCTURAL CONCRETE (RETAINING WALL)	175	CY
BAR REINFORCING STEEL (RETAINING WALL)	23,100	LB
MINOR CONCRETE (GUTTER)	199	LF
CABLE RAILING	199	LF

RETAINING WALL NO. 1 GENERAL PLAN
SCALE: AS SHOWN

TIME PLOTTED -> \$TIME
DATE PLOTTED -> \$DATE
USER -> \$USER
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



PREPARED UNDER THE SUPERVISION OF:
Molly A. Iley
REGISTERED CIVIL ENGINEER

DESIGNED: MAI
DRAWN: REU
CHECKED: KG
DATE:
ROAD NUMBER: 031



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

**OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT**

RW-1
42 OF 45
W.O. No. 77134

DESIGN CONDITIONS:

Design H may be exceeded by 6" before going to the next size.

DESIGN NOTES:

Design: AASHTO LRFD Bridge Design Specifications, 6th edition with California Amendments

LS: Varied surcharge on level ground surface

EQE: Mononabe-Okabe Method
 $K_h = 0.2$
 $K_v = 0.0$

Soil: $\phi = 34^\circ$
 $\gamma = 120$ pcf

Reinforced Concrete: $f'_c = 3600$ psi
 $f_y = 60,000$ psi

Load Combinations and Limit States

Service I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS$

Strength I $Q = aDC + \beta EV + 1.50EH + 1.75LS$

Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$

Where: Q: Force Effects
 a: 1.25 or 0.90, Which ever Controls Design
 B: 1.35 or 1.00, which ever Controls Design
 DC: Dead Load of Structure Components
 EV: Vertical Earth Fill Pressure
 LS: Live Load Surcharge
 EQE: Seismic Earth Pressure
 EQD: Soil and Structure Components Inertia. Soil inertia ignored for stem design
 B': Effective Footing Width (ft)
 q'_o : Net Bearing Stress (ksf)
 q_o : Gross Uniform Bearing Stress (ksf)

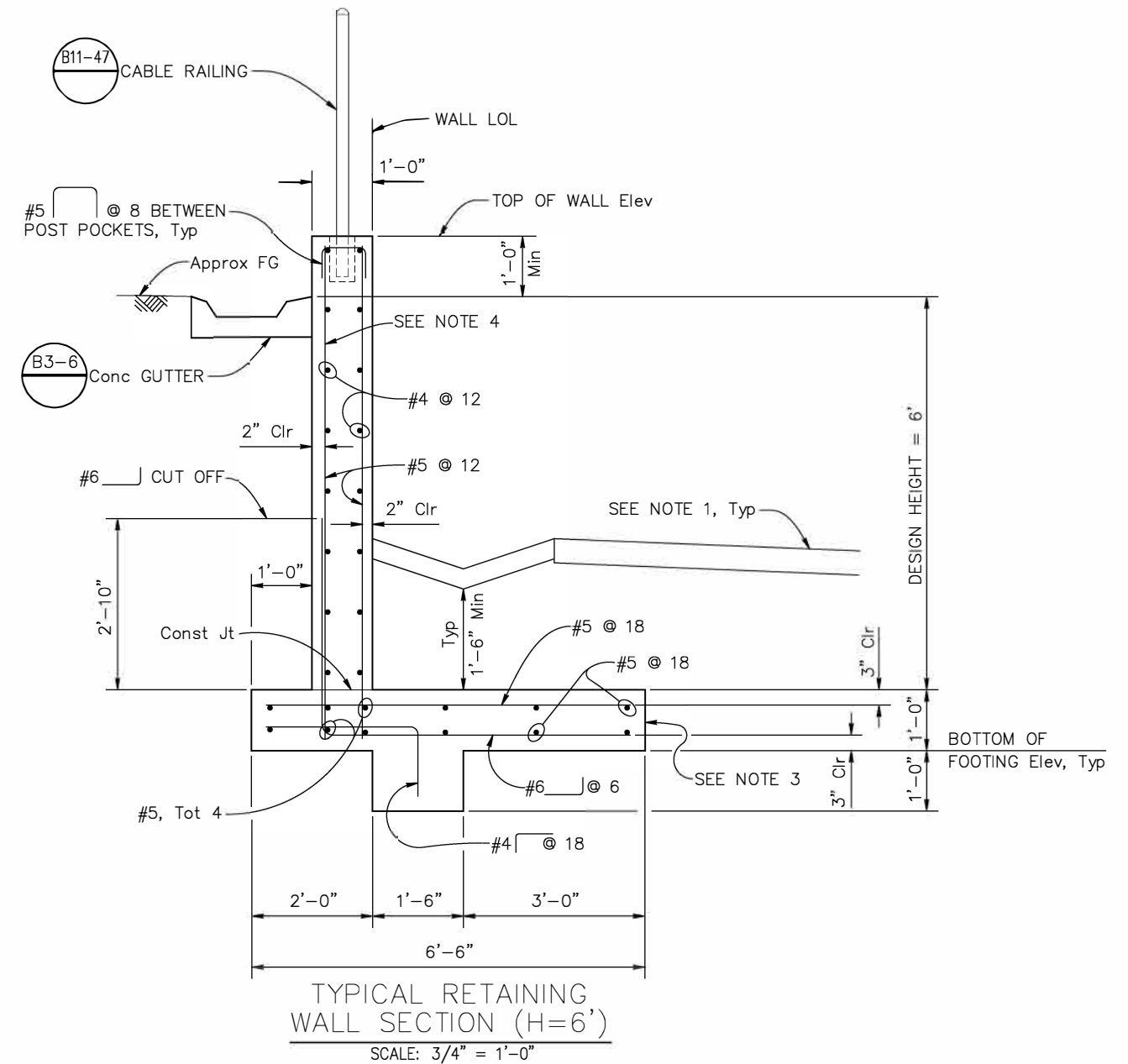
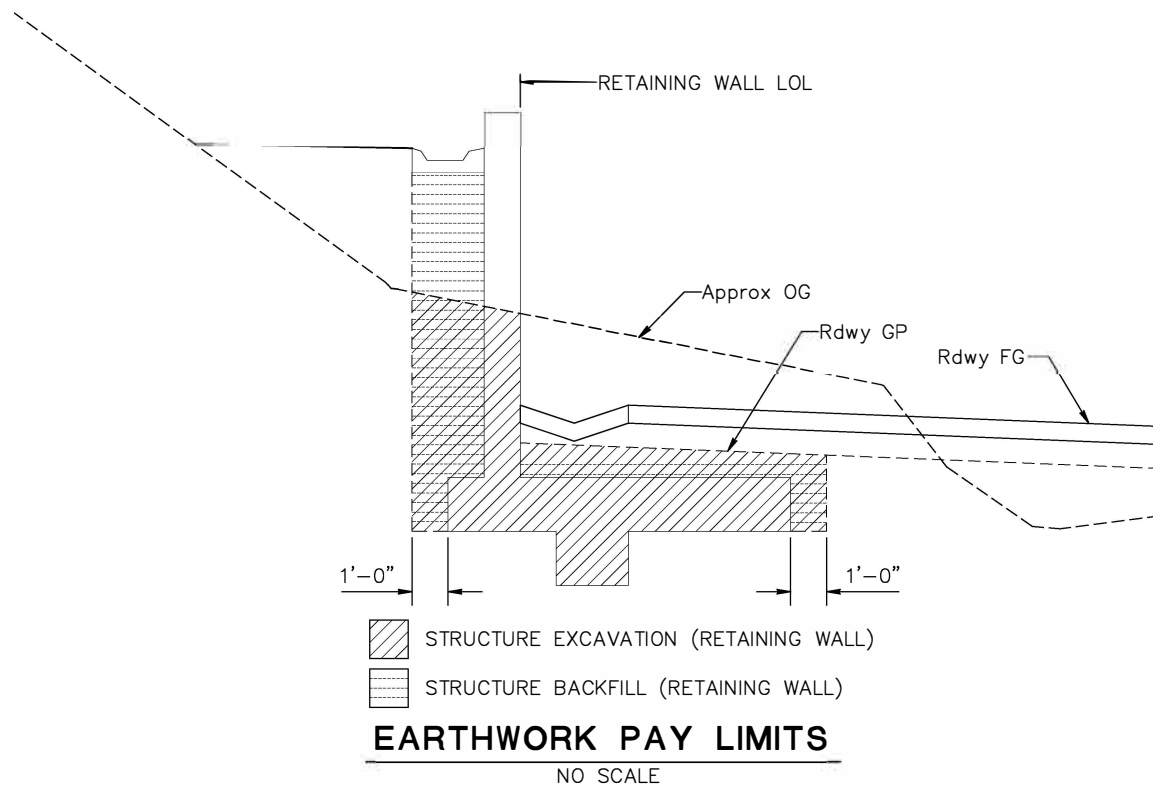
TABLE OF BEARING STRESS DATA

DESIGN H	6'		8'		10'	
Service limit State I: B' (ft), q'_o (ksf)	6.5	1.0	8.5	1.1	9.5	1.2
Strength Limit State I: B' (ft), q'_o (ksf)	6.5	1.0	8.5	1.2	9.5	1.5
Extreme Event Limit State I: B' (ft), q_o (ksf)	5.6	1.79	4.2	3.1	6	4.1

NOTES:

- For Roadway details, see "Road Plans".
- Sections shown are looking down-station.
- Place concrete in toe against undisturbed material except as permitted by engineer.
- Provide #5 @ 6" (at back face of wall) over a distance of 8'-0" measured from all expansion joints, begin wall and end wall locations.
- For "Typical Retaining Wall Section (H=8') and "Typical Retaining Wall Section (H=10')", see "RETAINING WALL NO. 2" sheet.

TIME PLOTTED -> \$TIME
DATE PLOTTED -> \$DATE
USER -> \$USER
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



RETAINING WALL DETAILS NO. 1
SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 Molly A. Iley
 No. C50995
 Exp. 9/30/19
 CIVIL
 REGISTERED CIVIL ENGINEER

DESIGNED: MAI
 DRAWN: REU
 CHECKED: KG
 ROAD NUMBER: 031



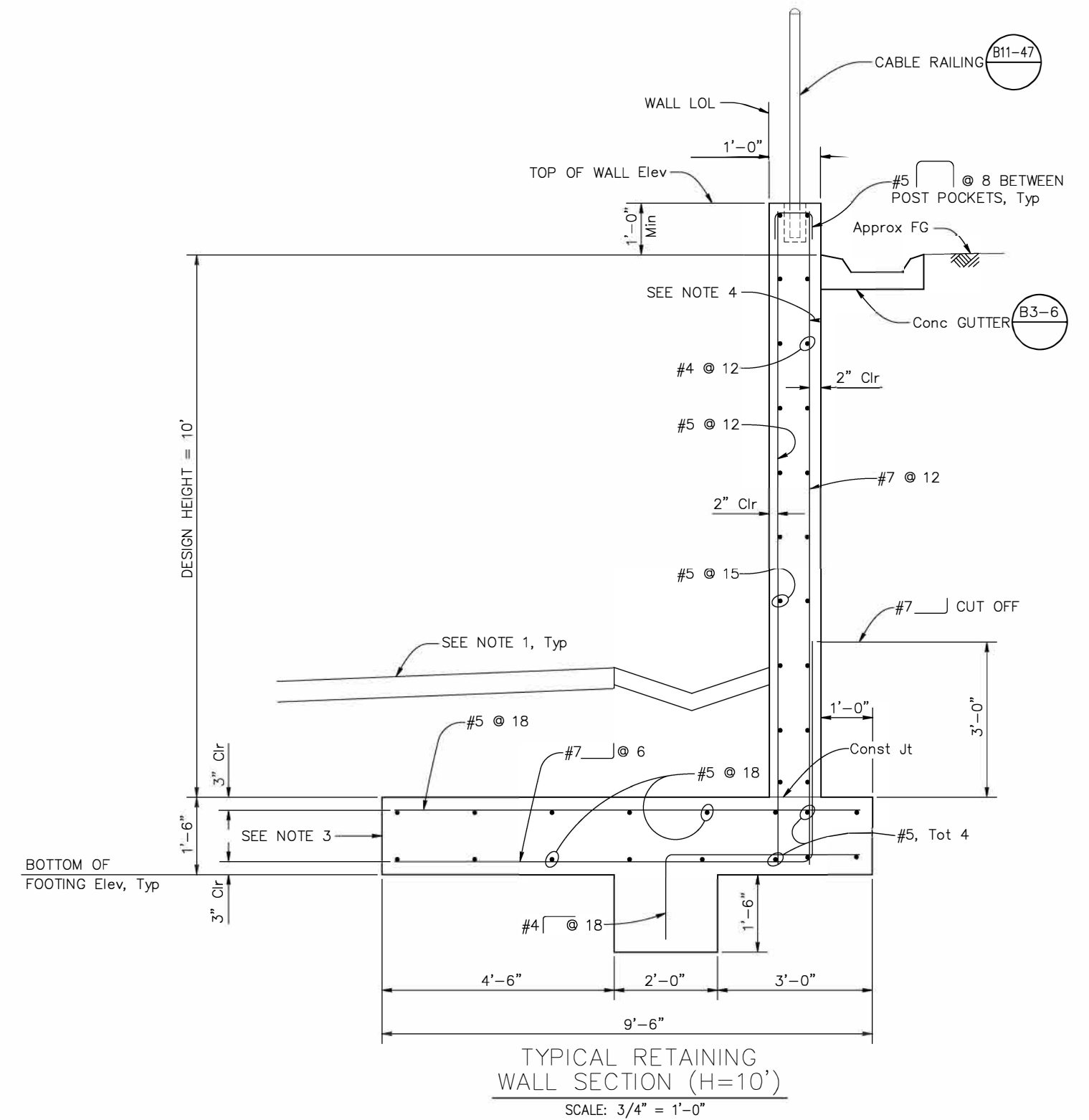
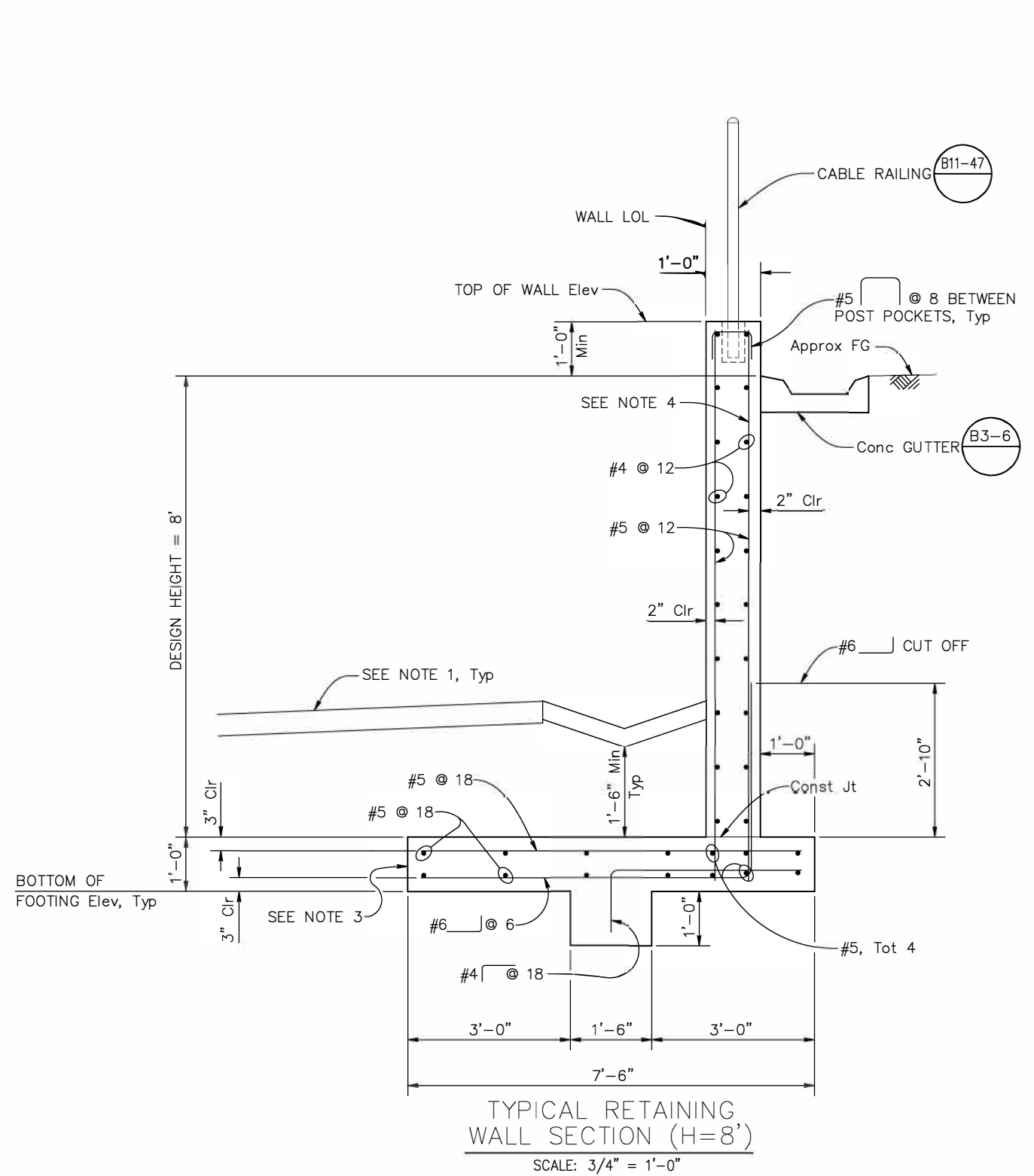
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

OAK HILL ROAD AT SQUAW HOLLOW CREEK
BRIDGE REPLACEMENT

RW-2
 43 OF 45
 W.O. No. 77134

TIME PLOTTED -> \$TIME
 DATE PLOTTED -> \$DATE
 USERNAME -> \$USER
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS

- NOTES:**
- For "Design Conditions", "Design Notes", and "Table of Bearing Stress Data", see RETAINING WALL DETAILS NO. 1" sheet.
 - For "Typical Retaining Wall Section (H=6')", see "RETAINING WALL NO. 1" sheet.



RETAINING WALL DETAILS NO. 2
SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER

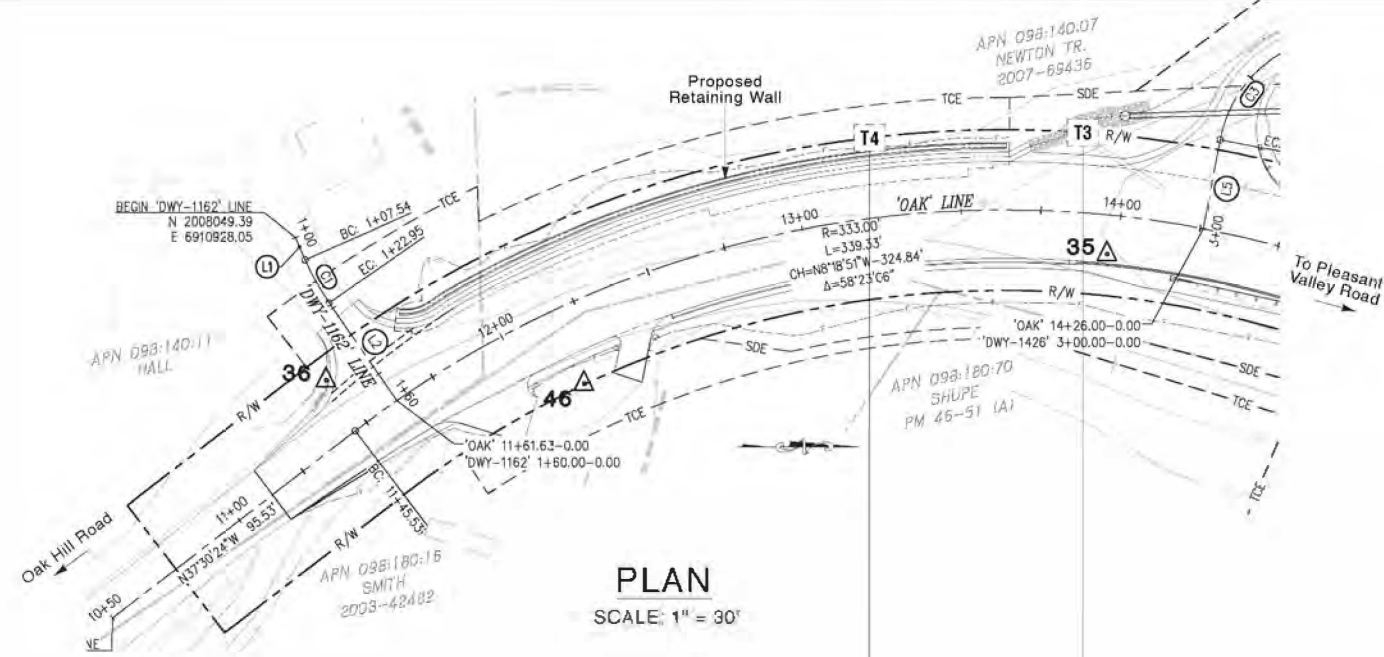
DESIGNED: MAI
 CHECKED: KG
 ROAD NUMBER: 031



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

**OAK HILL ROAD AT SQUAW HOLLOW CREEK
 BRIDGE REPLACEMENT**

RW-3
 44 OF 45
 77134



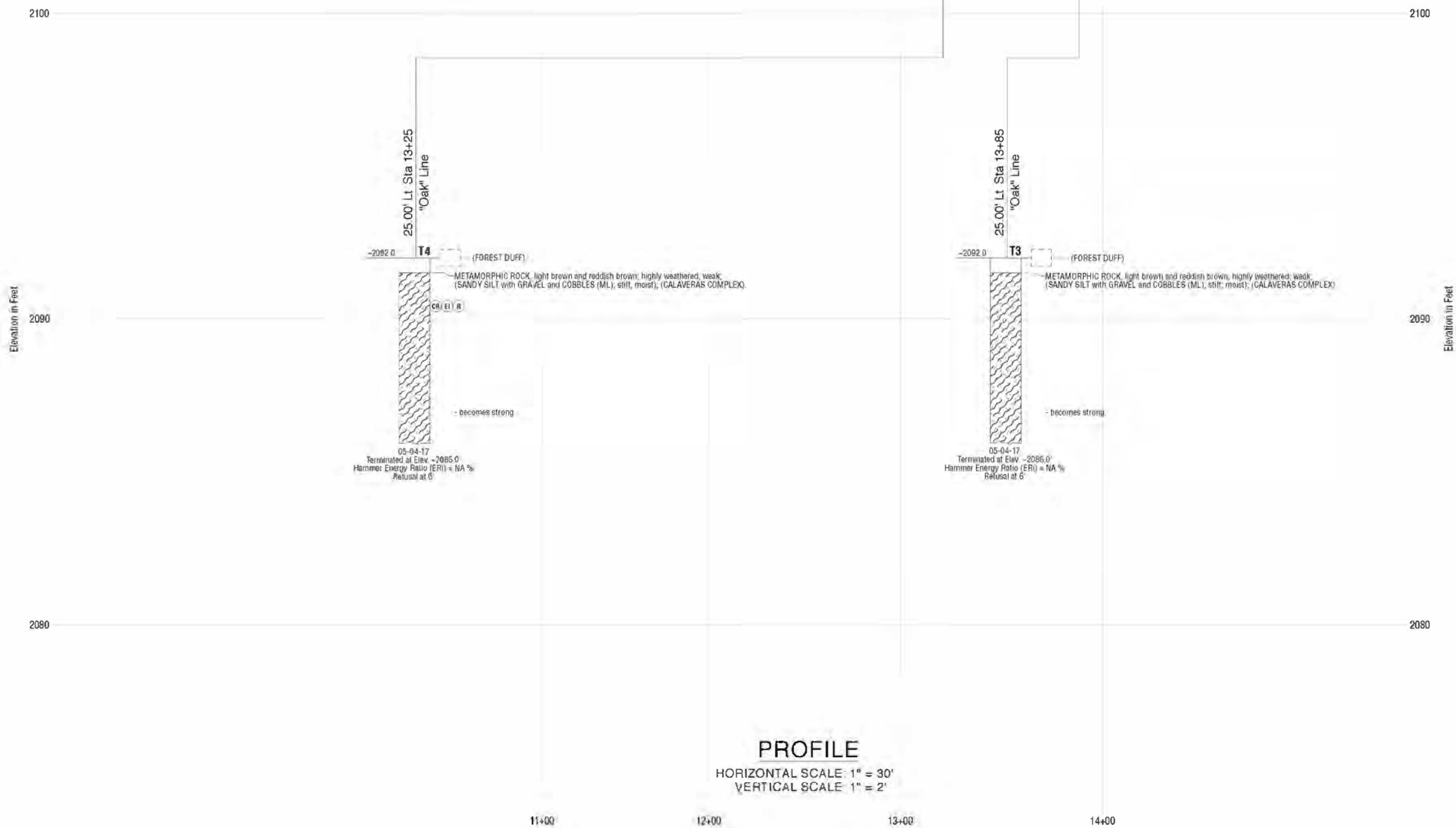
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

NOTES:

1. The boring logs and related information represent the opinion of the professional engineer/geologist as to the character of the material at the locations shown. Soil and groundwater conditions between adjacent test holes and at other locations may differ from those shown. Groundwater conditions may change with passage of time.
2. Test pit locations were determined in the field based on staking and piling from mapped site features. The locations of the explorations should be considered accurate only to the degree implied by the measuring methods used.
3. Visual classification of earth materials was based on field inspection and was confirmed or revised with laboratory test results.

BENCHMARK

Vertical Datum: NGVD 29



DATE:	JULY 2018
SCALE:	AS NOTED
DRAWN BY:	D. HANSEN
DESIGNED BY:	R. LOITZWEISER
CHECKED BY:	R. LOITZWEISER
NO.	
REVISION	



OAK HILL ROAD AT SQUAW HOLLOW CREEK BRIDGE
LOG OF TEST BORINGS
EL DORADO COUNTY
CALIFORNIA

SHEET	2 OF 2
PROJECT NO.	S1320-05-01
W.O. No.	77134
	RW-4
	45 OF 45