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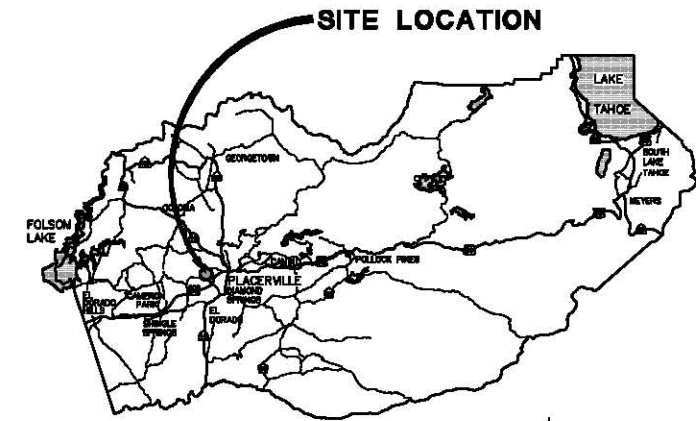
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COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

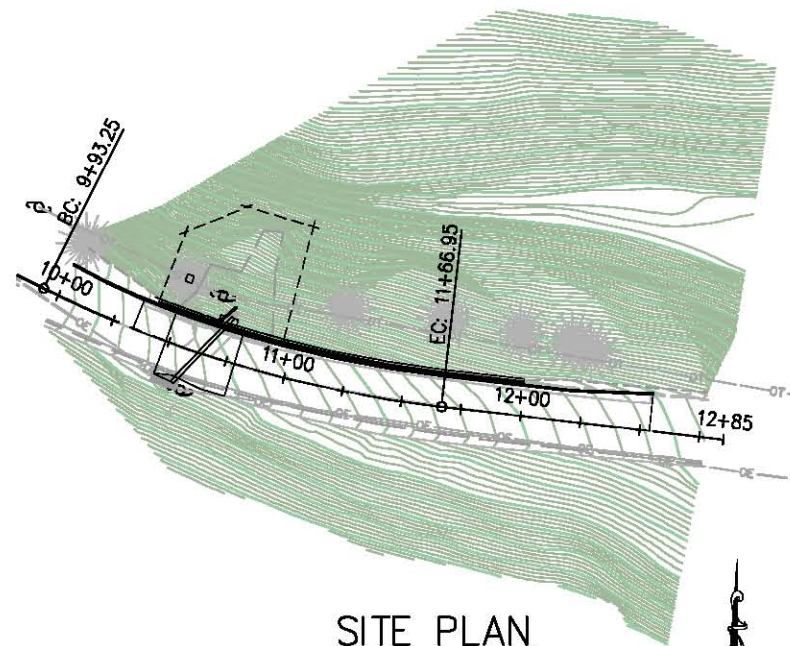
PROJECT PLANS FOR THE CONSTRUCTION OF GREEN VALLEY ROAD SLIPOUT REPAIR

IN THE COUNTY OF EL DORADO, DISTRICT 3
ON GREEN VALLEY RD (P.M. 16.56)
APPROX 0.81 MILES EAST OF THE GREEN VALLEY RD/PLACERVILLE DR INTERSECTION

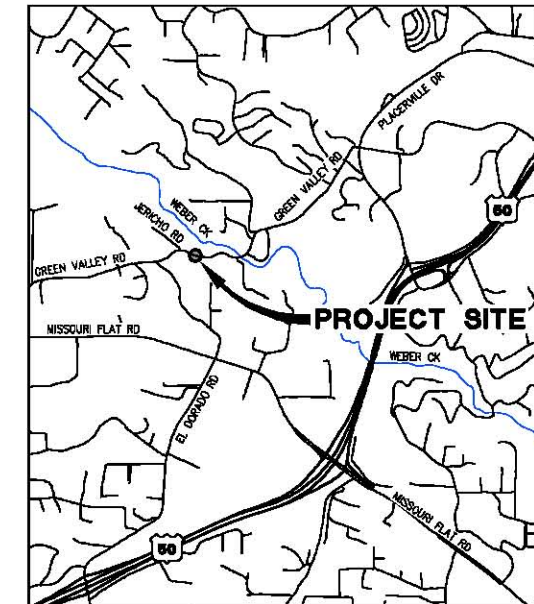
To be supplemented with Standard Plans and Specifications dated 2015, including the 2015 Revised Standard Specifications, of the California Department of Transportation, unless otherwise noted.



VICINITY MAP
COUNTY OF EL DORADO



SITE PLAN
SCALE: 1"=40'



LOCATION MAP
NOT TO SCALE

FEDERAL AID PROJECT
ER 32LO(092)

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]*
DATE: 08/28/2018
STATE OF CALIFORNIA NO.

BOARD OF SUPERVISORS
I JOHN HIDAHL
II SHIVA FRENTZEN
III BRIAN VEERKAMP
IV MICHAEL RANALLI
V SUE NOVASEL

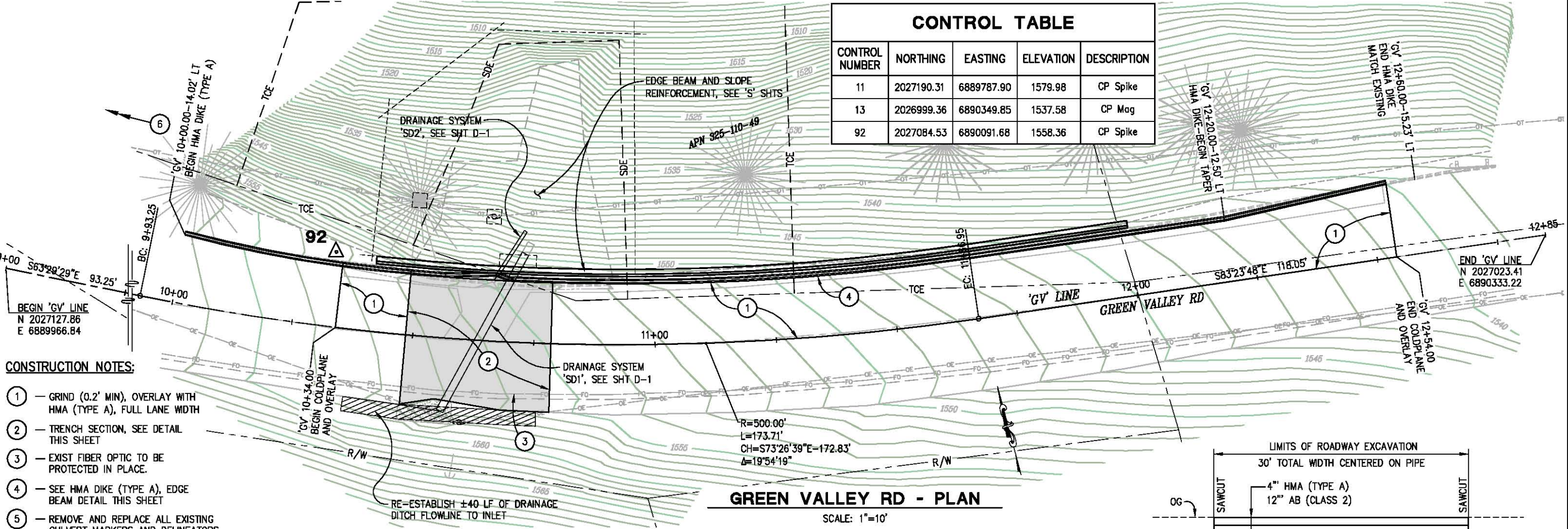
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION
(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:
MICHAEL RANALLI, CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS
APPROVED BY:
RAFAEL MARTINEZ, DIRECTOR, DEPARTMENT OF TRANSPORTATION
MATTHEW D. SWEETZER, P.E., NO. C68832, DEPUTY DIRECTOR, ENGINEERING

CONTRACT NO. 2776 PROJECT NO. 78707
GREEN VALLEY ROAD
SLIPOUT REPAIR
TITLE SHEET
SHEET 1 OF 8

ORIGINAL SCALE IS IN INCHES
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CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	2027190.31	6889787.90	1579.98	CP Spike
13	2026999.36	6890349.85	1537.58	CP Mag
92	2027084.53	6890091.68	1558.36	CP Spike

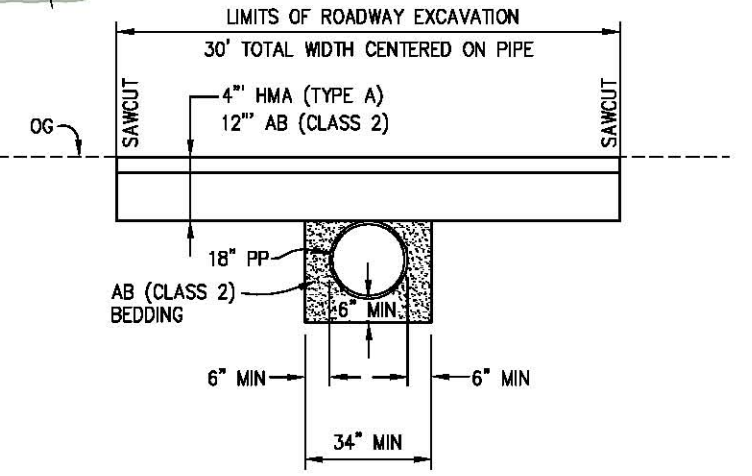


CONSTRUCTION NOTES:

- ① — GRIND (0.2' MIN), OVERLAY WITH HMA (TYPE A), FULL LANE WIDTH
- ② — TRENCH SECTION, SEE DETAIL THIS SHEET
- ③ — EXIST FIBER OPTIC TO BE PROTECTED IN PLACE.
- ④ — SEE HMA DIKE (TYPE A), EDGE BEAM DETAIL THIS SHEET
- ⑤ — REMOVE AND REPLACE ALL EXISTING CULVERT MARKERS AND DELINEATORS
- ⑥ — INSTALL APPROX 100 LF TEMPORARY FENCE (TYPE ESA) ALONG FACE OF BERM ADJACENT TO RESIDENCE ON APN 325-110-49 AS DIRECTED BY ENGINEER

GREEN VALLEY RD - PLAN

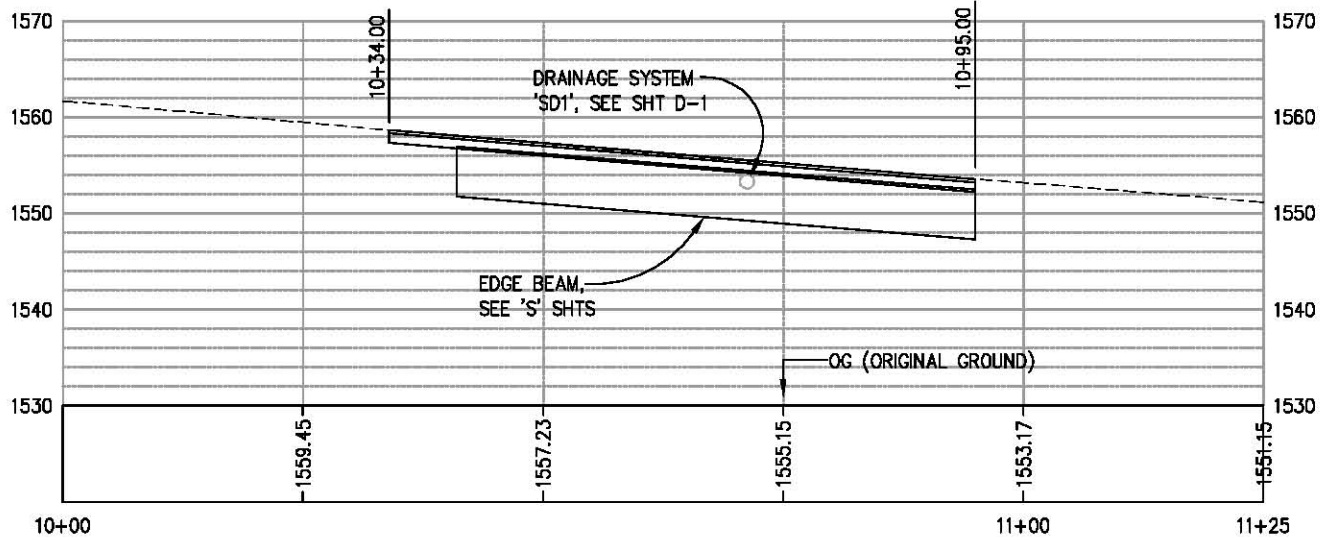
SCALE: 1"=10'



TYPICAL TRENCH SECTION

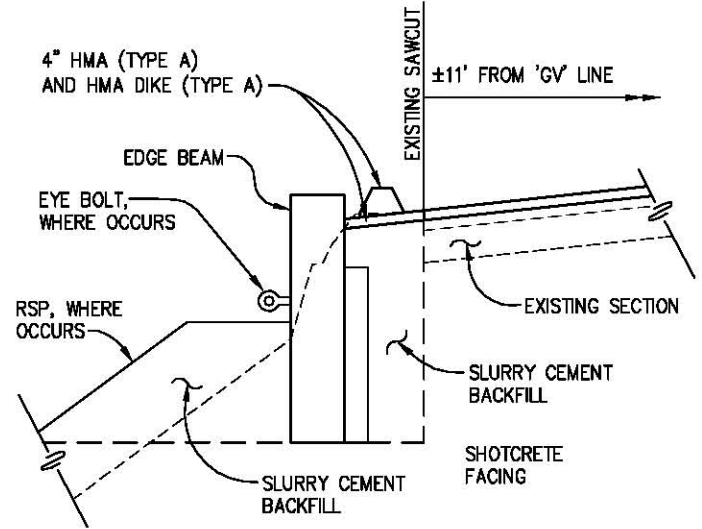
SCALE: 1"=2'

NOTE:
 EXCAVATE FULL WIDTH OF ROADWAY WITHIN LIMITS SHOWN ON PLANS. REPLACE WITH 4" HMA (TYPE A) OVER 12" AB (CLASS 2) STRUCTURAL SECTION. PLACE PAINT TRAFFIC STRIPE (2-COAT) WHERE REMOVED (NOT DELINEATED ON PLANS). DETAIL 22 CENTERLINE, DETAIL 27B (EDGE LINE BOTH DIRECTIONS, MATCH EXISTING).



GREEN VALLEY RD - PROFILE

SCALE: 1"=10' H,V



EDGE BEAM SHOULDER DETAIL

NTS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 08/28/2018

DESIGNED: DH
 DRAWN: SGM
 CHECKED: DH
 DATE: 08/10/18
 ROAD NUMBER: 002



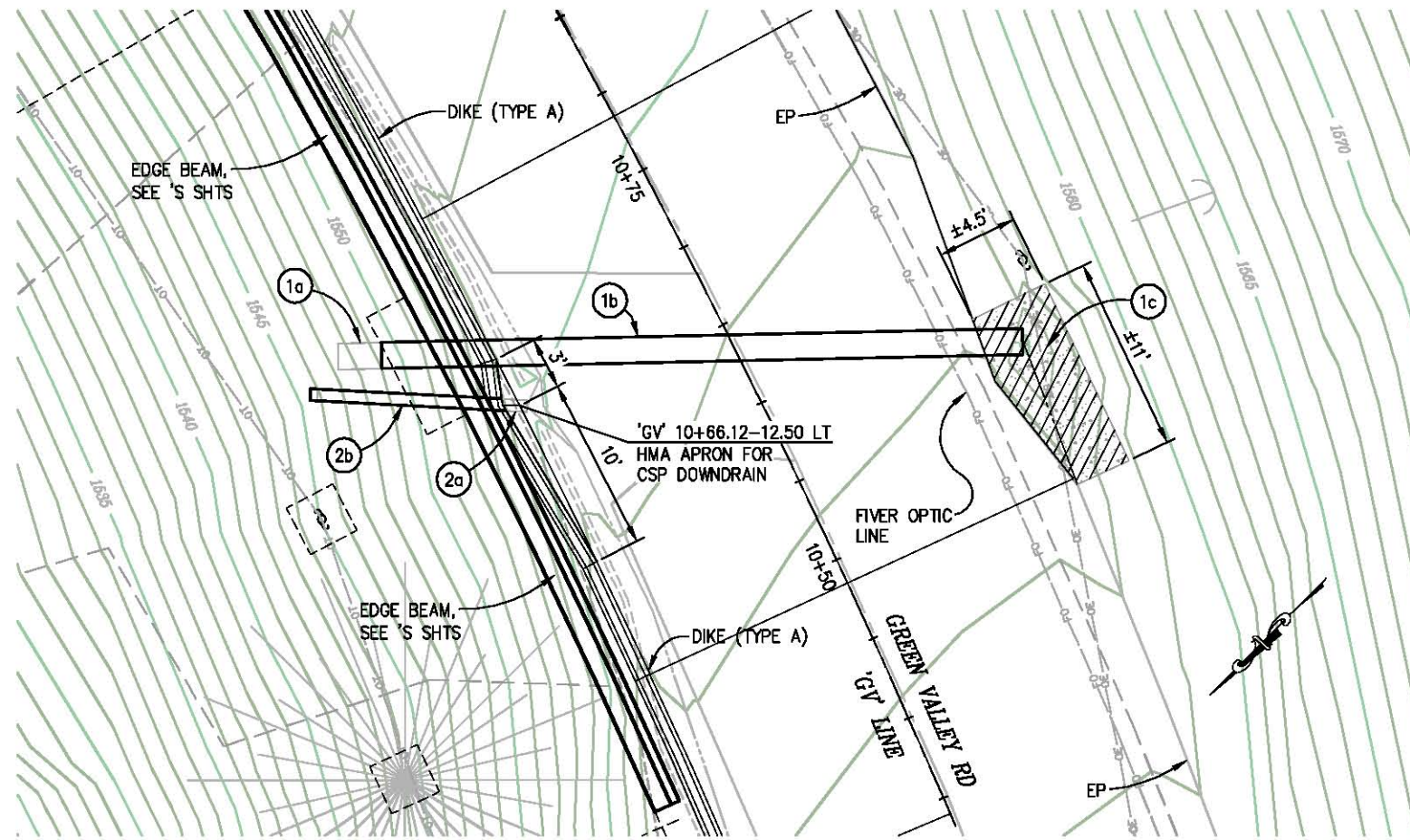
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD SLIPOUT REPAIR

LAYOUT SCALE: AS SHOWN

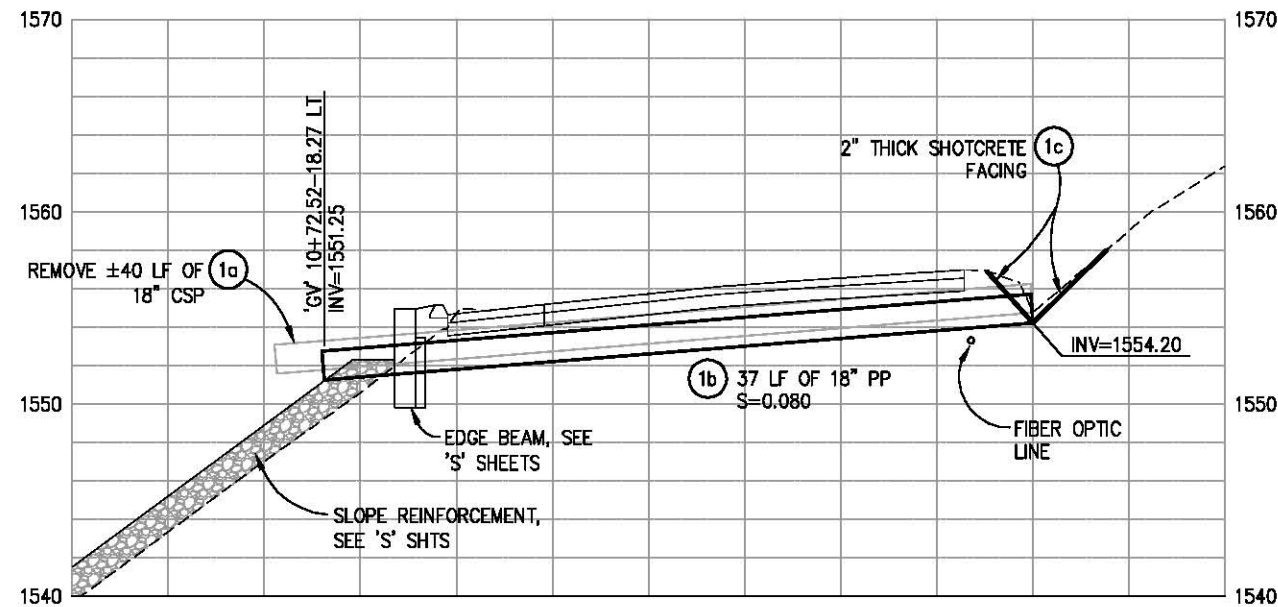
SHEET
L-1
 2 OF 8
 W.O. No. **78707**

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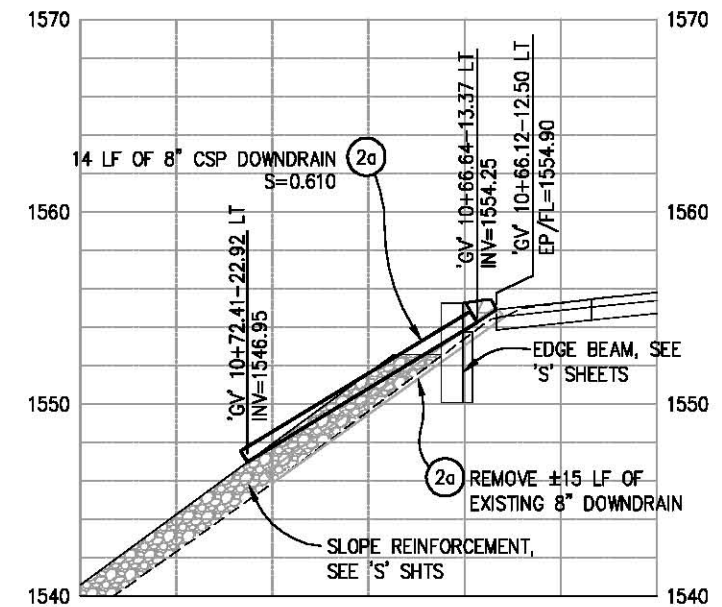
'SD1' & 'SD2' SYSTEM - PLAN

SCALE: 1"=5'



'SD1' SYSTEM - PROFILE

SCALE: 1"=5' H,V



'SD2' SYSTEM - PROFILE

SCALE: 1"=5' H,V

**DRAINAGE
SCALE : AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 08/28/2018

DESIGNED: DH
 DRAWN: SGM
 CHECKED: DH
 DATE: 08/10/18
 ROAD NUMBER: 002

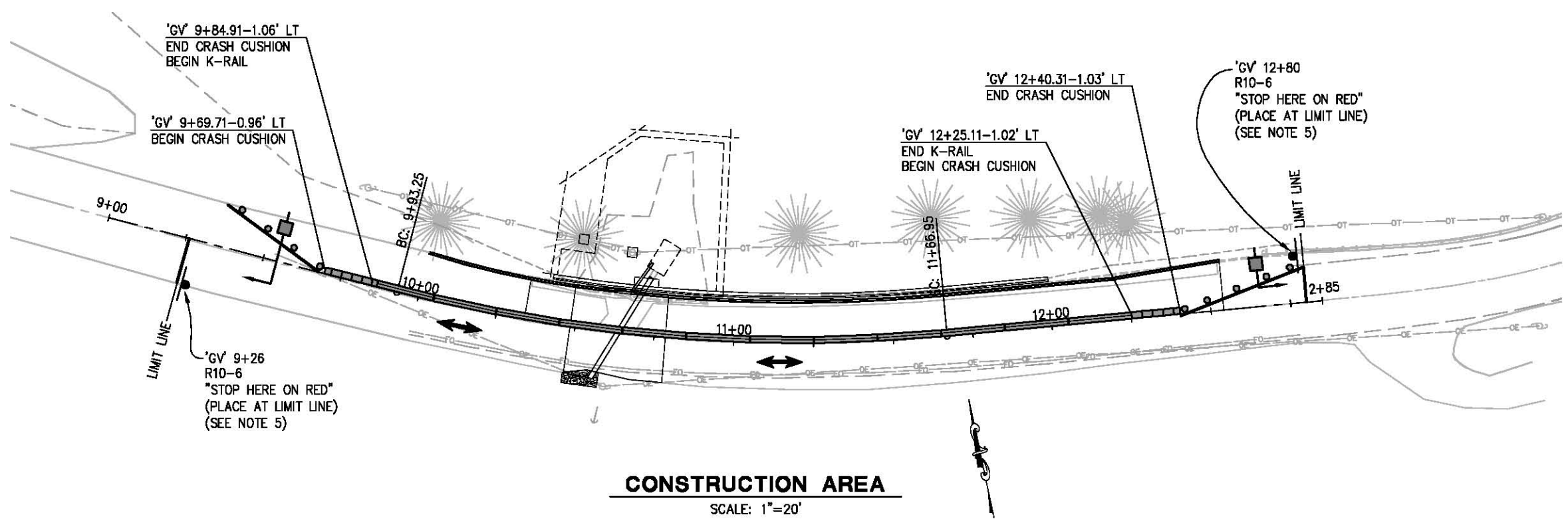


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

GREEN VALLEY ROAD SLIPOUT REPAIR

SHEET
D-1
 3 OF 8
 W.O. No. **78707**

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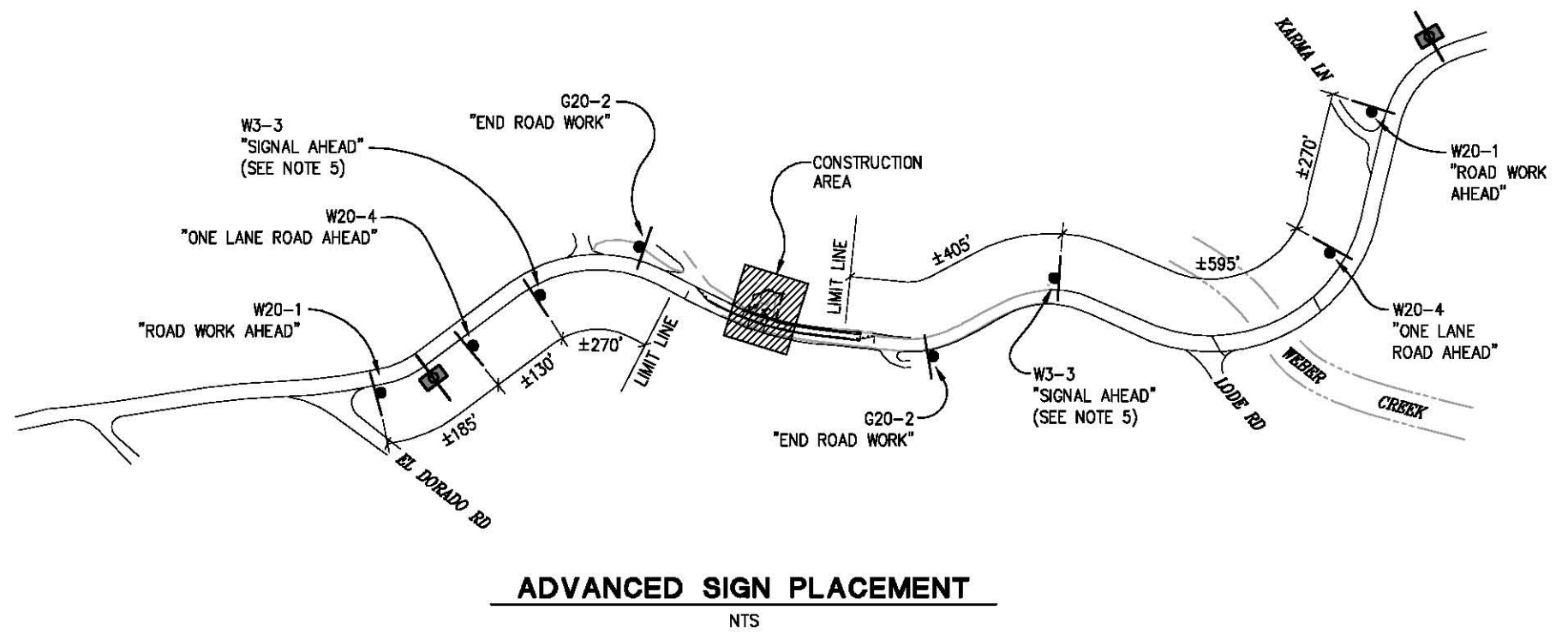
GENERAL STAGE CONSTRUCTION NOTES:

1. REFER TO THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC REQUIREMENTS WITHIN THE WORK AREA.
2. REMOVE ALL EXISTING STRIPING, MARKINGS, AND SIGNAGE THAT CONFLICT WITH THE TEMPORARY STRIPING, MARKINGS AND SIGNAGE TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY STRIPING.
3. ALL TEMPORARY STRIPING AND MARKINGS ARE TO BE PAINT UNLESS NOTED OTHERWISE.
4. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
5. SIGNS REQUIRED FOR THE PORTABLE TEMPORARY SIGNAL MUST BE COVERED OR REMOVED WHEN THE SIGNAL IS NOT OPERATING.
6. 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.

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

LEGEND:

- TEMPORARY RAIL (TYPE K)
- CONSTRUCTION SIGN
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CHANNELIZER DRUMS
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DIRECTION OF TRAFFIC
- PORTABLE TEMPORARY SIGNAL
- STANDARD PCMS MESSAGE
- PCMS MESSAGE DURING OPERATION OF TEMPORARY SIGNAL



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
REGISTERED CIVIL ENGINEER
DATE: 08/28/2018

DESIGNED: DH
DRAWN: SGM
CHECKED: DH
DATE: 08/10/18
ROAD NUMBER: 002



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD SLIPOUT REPAIR

STAGE CONSTRUCTION
SCALE: AS SHOWN

SHEET
SC-1
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W.O. No. **78707**

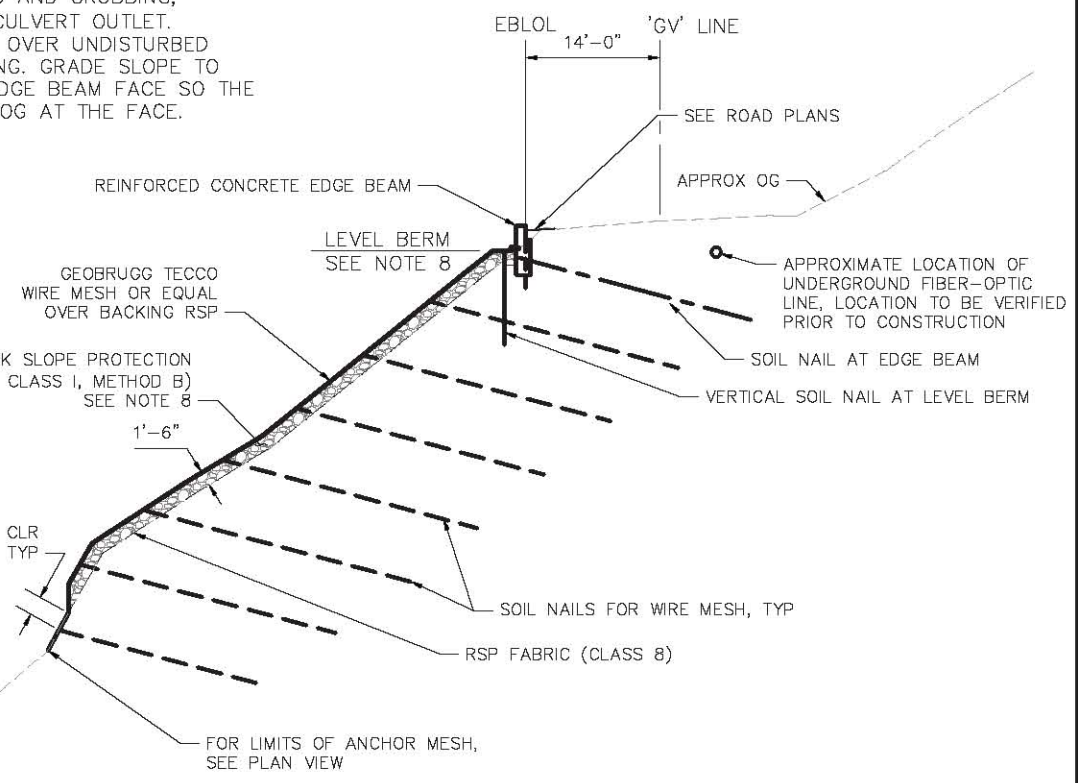
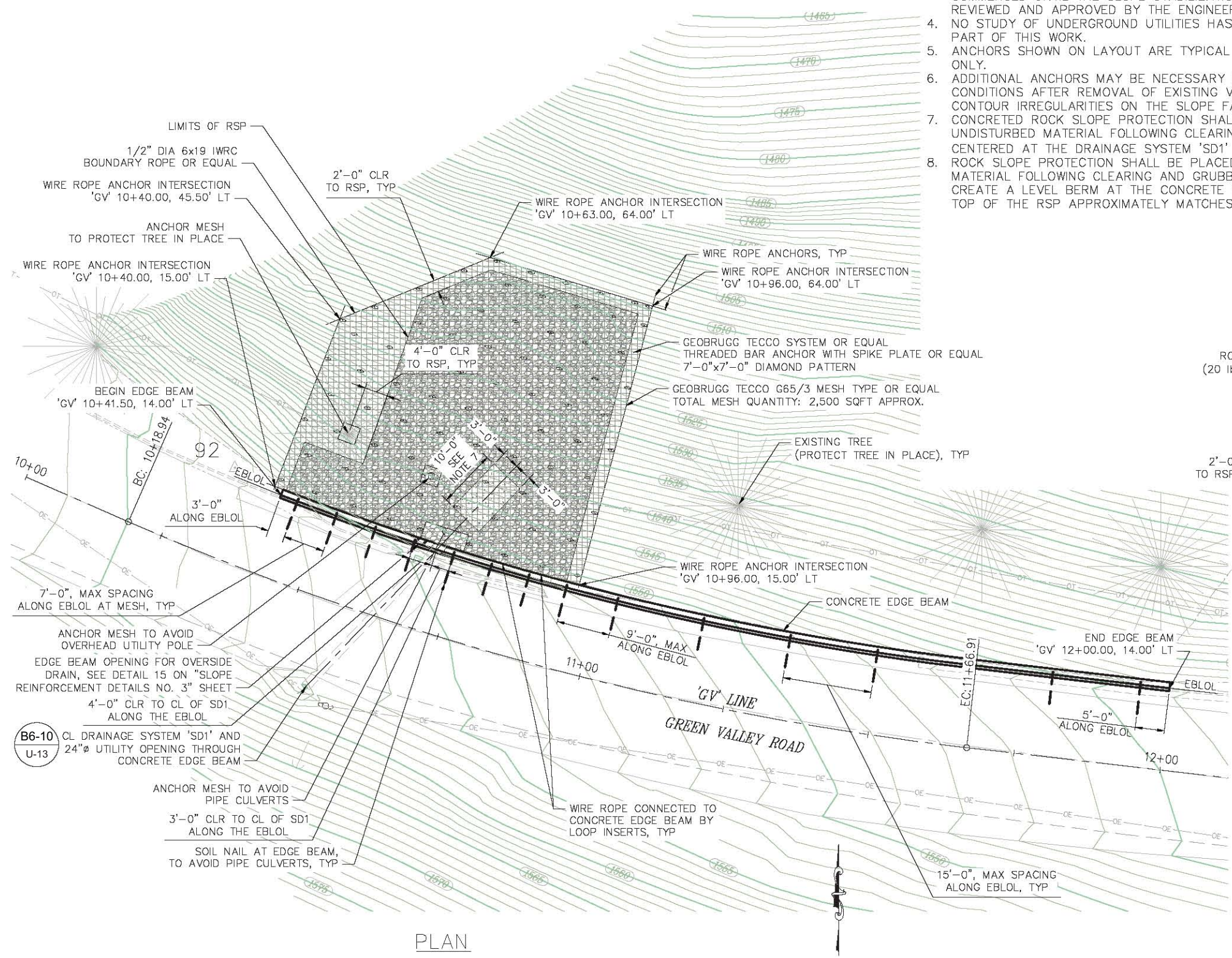
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 Aug 08, 2018 9:58am tkoons
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY

GENERAL LAYOUT NOTES:

1. GEOBRUGG TECCO OR EQUAL SLOPE STABILIZATION SYSTEM LAYOUT AND ANCHOR LOCATIONS SHOWN ARE APPROXIMATE. LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO START OF CONSTRUCTION.
2. FINAL WIRE MESH QUANTITY SHALL BE DETERMINED BY THE CONTRACTOR.
3. NO MATERIALS SHALL BE ORDERED OR ANY CONSTRUCTION ACTIVITIES COMMENCED UNTIL THE SLOPE STABILIZATION SYSTEM HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
4. NO STUDY OF UNDERGROUND UTILITIES HAS BEEN PERFORMED AS PART OF THIS WORK.
5. ANCHORS SHOWN ON LAYOUT ARE TYPICAL AND FOR REFERENCE ONLY.
6. ADDITIONAL ANCHORS MAY BE NECESSARY DEPENDING ON SLOPE CONDITIONS AFTER REMOVAL OF EXISTING VEGETATION AND OR CONTOUR IRREGULARITIES ON THE SLOPE FACE.
7. CONCRETED ROCK SLOPE PROTECTION SHALL BE PLACED OVER UNDISTURBED MATERIAL FOLLOWING CLEARING AND GRUBBING, CENTERED AT THE DRAINAGE SYSTEM 'SD1' CULVERT OUTLET.
8. ROCK SLOPE PROTECTION SHALL BE PLACED OVER UNDISTURBED MATERIAL FOLLOWING CLEARING AND GRUBBING. GRADE SLOPE TO CREATE A LEVEL BERM AT THE CONCRETE EDGE BEAM FACE SO THE TOP OF THE RSP APPROXIMATELY MATCHES OG AT THE FACE.

TOPOGRAPHIC SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY IS ONLY INTENDED FOR SLOPE STABILIZATION LAYOUTS AND LOCATION PURPOSES.
2. CONTOURS ON SLOPE BETWEEN TOP OF SLOPE AND TOE OF SLOPE MAY NOT ACCURATELY DEPICT IRREGULARITIES IN SLOPE FACE.



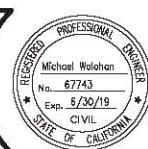
LEGEND:

- EBLOL EDGE BEAM LAYOUT LINE
- UG FO EXISTING UNDERGROUND FIBER OPTIC LINE
- OE EXISTING OVERHEAD ELECTRICAL LINE
- OT EXISTING OVERHEAD TELEPHONE LINE
- GEOBRUGG TECCO SYSTEM THREADED BAR ANCHOR SPIKE PLATE OR EQUAL
- GEOBRUGG TECCO SYSTEM WIRE MESH OR EQUAL
- ROCK SLOPE PROTECTION (20lb, CLASS I, METHOD B)
- CONCRETED-ROCK SLOPE PROTECTION (20lb, CLASS I, METHOD B)

PLAN

TYPICAL SECTION

SLOPE REINFORCEMENT
 GENERAL PLAN
 SCALE : 1" = 10' H,V



PREPARED UNDER THE SUPERVISION OF:
 Michael W. Walaeh
 REGISTERED CIVIL ENGINEER
 8/28/2018

DESIGNED: MP
 DRAWN: TAK
 CHECKED: MW
 DATE: 5/8/18
 ROAD NUMBER:

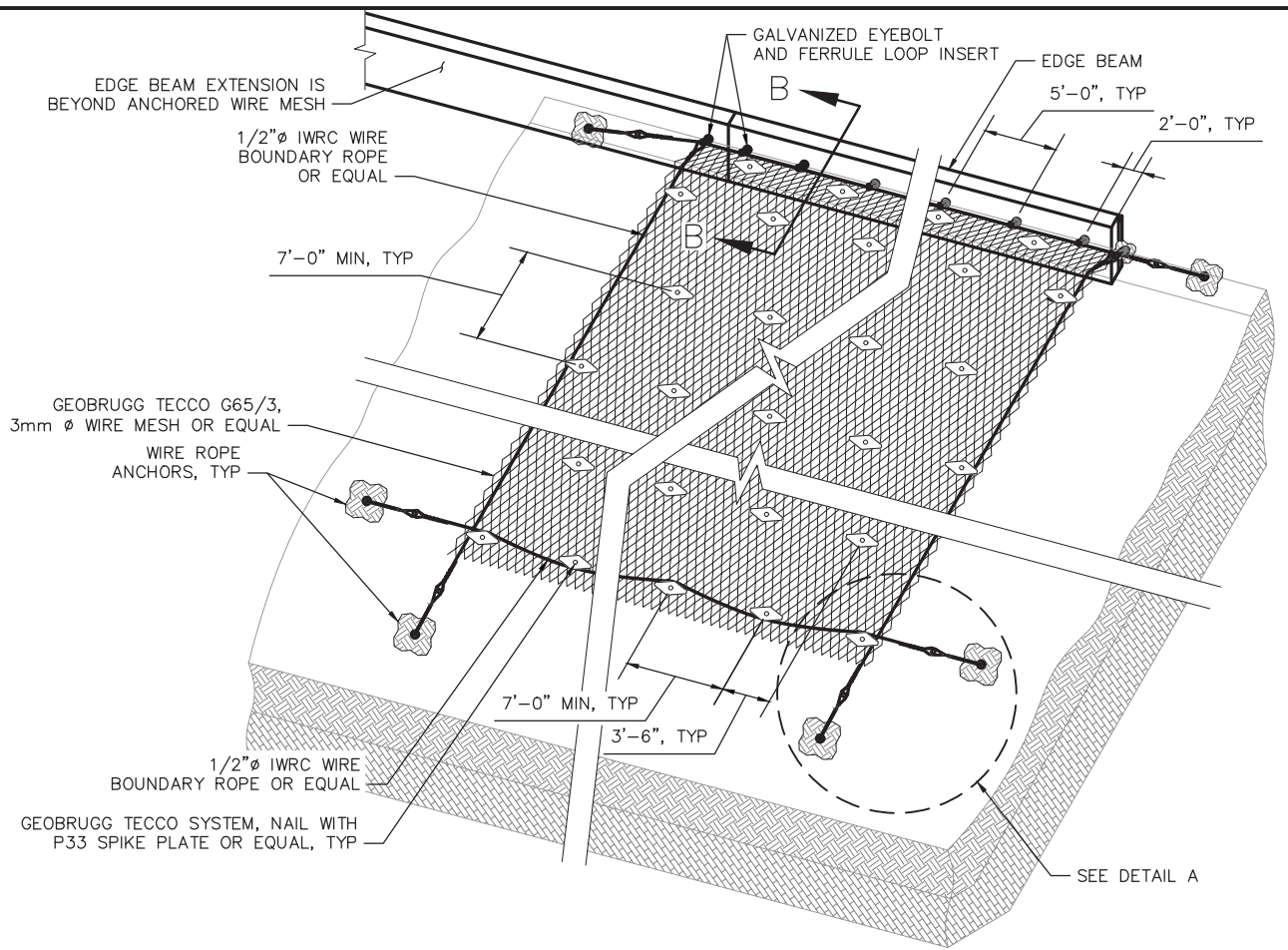


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

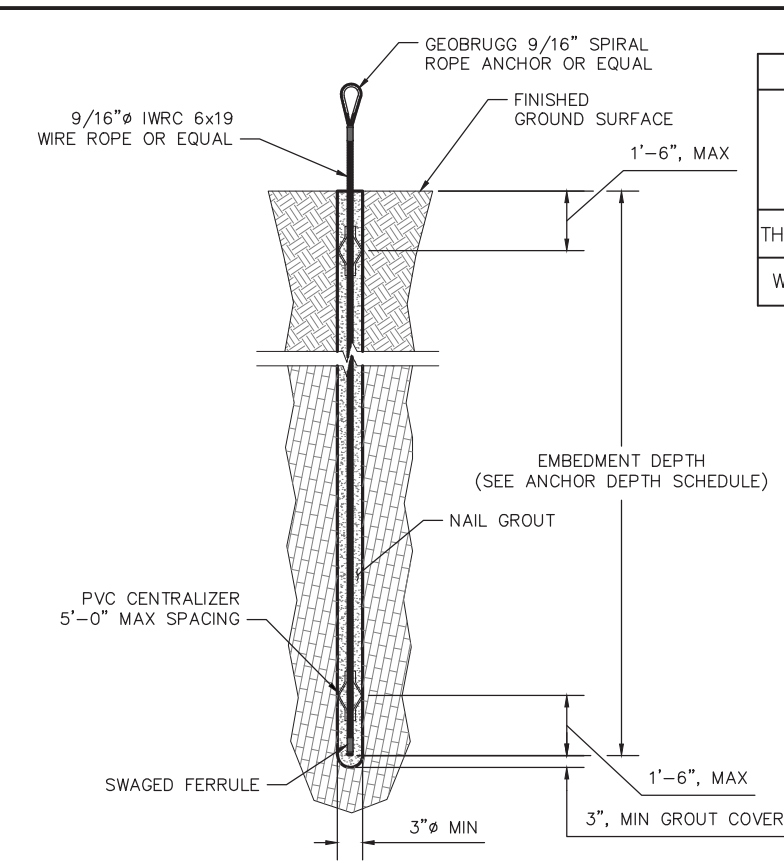
GREEN VALLEY ROAD
 SLIPOUT REPAIR

SHEET
 S-1
 5 OF 8
 W.O. No. 78707

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1 WIRE MESH GENERAL LAYOUT DETAIL
SCALE: NTS



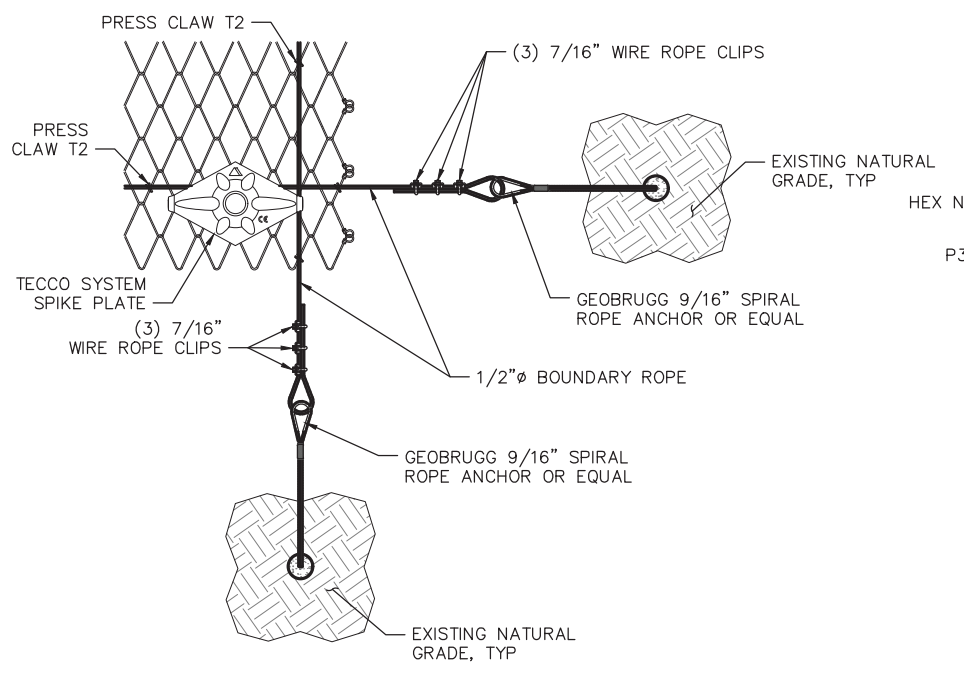
2 WIRE ROPE ANCHOR DETAIL
SCALE: NTS

ANCHOR DEPTH SCHEDULE						
ANCHOR TYPE	BOREHOLE DIAMETER (in)	MINIMUM EMBEDMENT DEPTH (ft)	*TOTAL LENGTH (ft)	DESIGN LOAD (kips)	**ANCHOR EMBEDMENT RESISTANCE (kips/ft)	PERFORMANCE TEST LOAD (kips)
THREAD-BAR	6	30.0	31.0	30	18.0	SEE ANCHOR THREAD-BAR NOTES
WIRE ROPE	3	20.0	20.5	15	18.0	N/A***

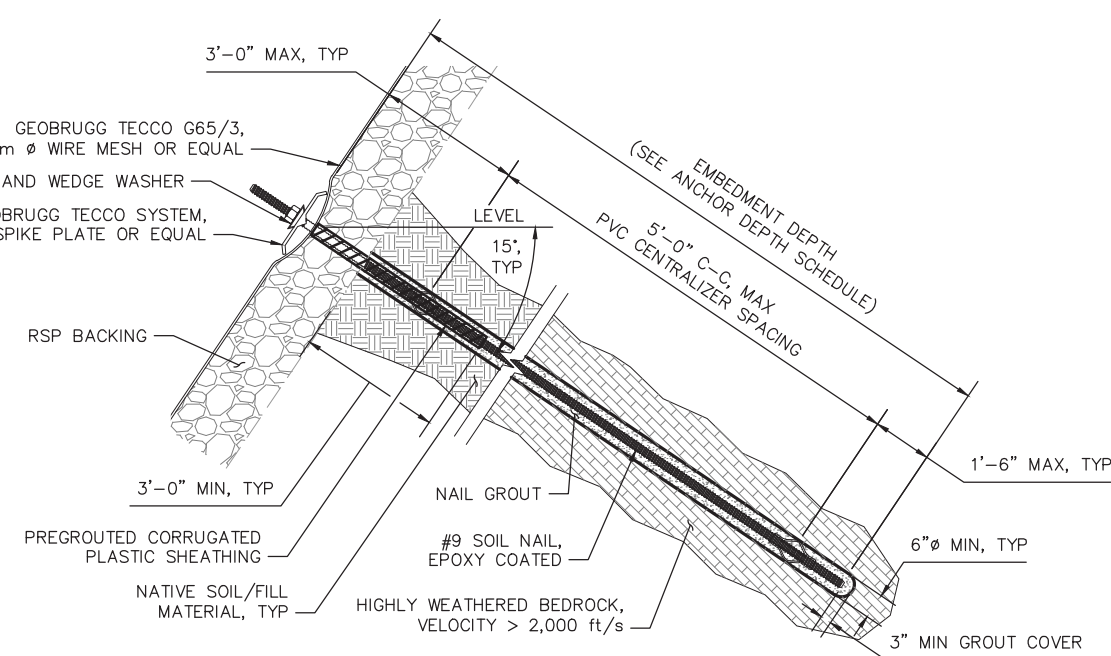
- SCHEDULE NOTES:**
- ANCHOR DEPTHS SPECIFIED ARE PER ANCHOR.
 - (*) TOTAL LENGTH OF THREAD-BAR OR WIRE ROPE ANCHOR.
 - (**) ANCHOR EMBEDMENT RESISTANCE INTO COMPETENT MATERIAL.
 - (***) WIRE ROPE ANCHORS DO NOT REQUIRE TESTING.

- THREAD-BAR AND WIRE ROPE ANCHOR NOTES:**
- THREAD-BAR ANCHORS WILL BE PRE-TENSIONED TO A FORCE OF 6.75 kips (30 kN) WITH A REQUIRED TORQUE VALUE OF 295ft-LBF (40 kNm) PER ANCHOR. SEE PROJECT SPECIFICATIONS FOR TORQUE WRENCH REQUIREMENTS.
 - THREAD-BAR ANCHORS WILL BE PERFORMANCE TESTED. SEE PROJECT SPECIFICATIONS SECTION 4 "ANCHOR TESTING".
 - ANCHOR TESTING WILL BE COMPLETED UNDER OBSERVATION BY THE ENGINEER.
 - WIRE ROPE ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE FACE.

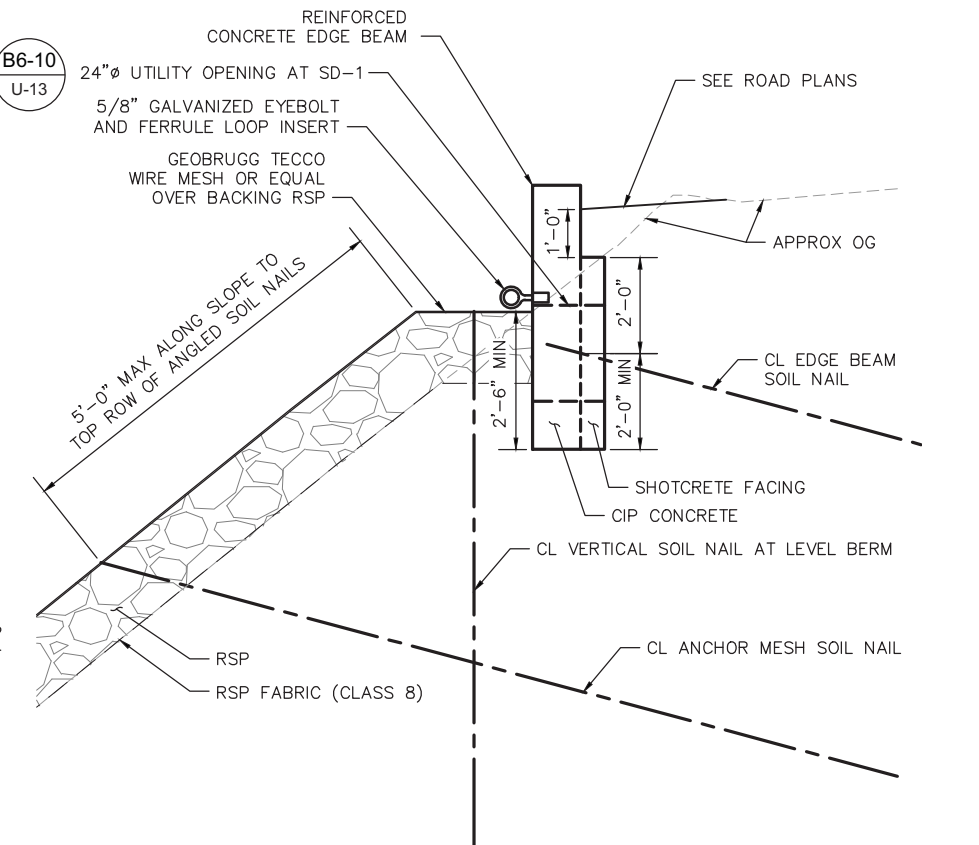
- SYSTEM LAYOUT NOTES:**
- GEORUGG TECCO SLOPE STABILIZATION SYSTEM LAYOUT DIMENSIONS ARE APPROXIMATE. LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO START OF CONSTRUCTION.
 - SEE PLAN VIEW ON SHEET 1 FOR LIMITS OF TECCO MESH AND EDGE BEAM.



A DETAIL
SCALE: NTS



3 PRODUCTION SOIL NAIL DETAIL OVER WIRE MESH
SCALE: NTS



B-B SECTION B-B SLOPE REINFORCEMENT DETAILS NO. 1
SCALE: NTS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Michael M. Wolahan
REGISTERED CIVIL ENGINEER
DATE: 8/28/2018

DESIGNED: MP
DRAWN: TAK
CHECKED: MW
DATE: 5/8/18
ROAD NUMBER:

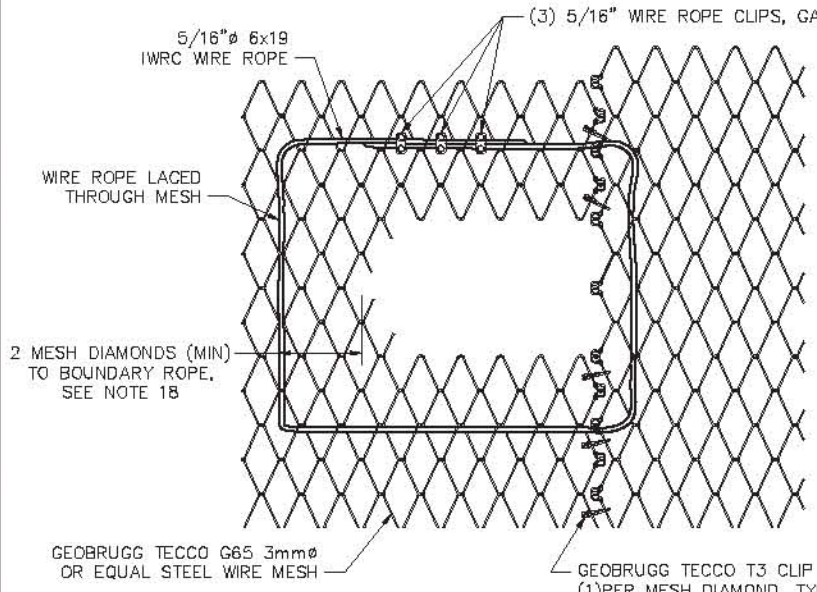


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

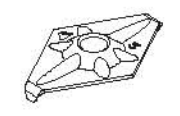
GREEN VALLEY ROAD
SLIPOUT REPAIR

SHEET
S-2
6 OF 8
W.O. No. 78707

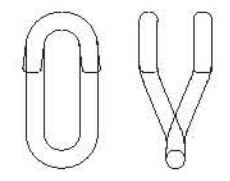
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4 WIRE MESH OPENING DETAIL
SCALE: NTS



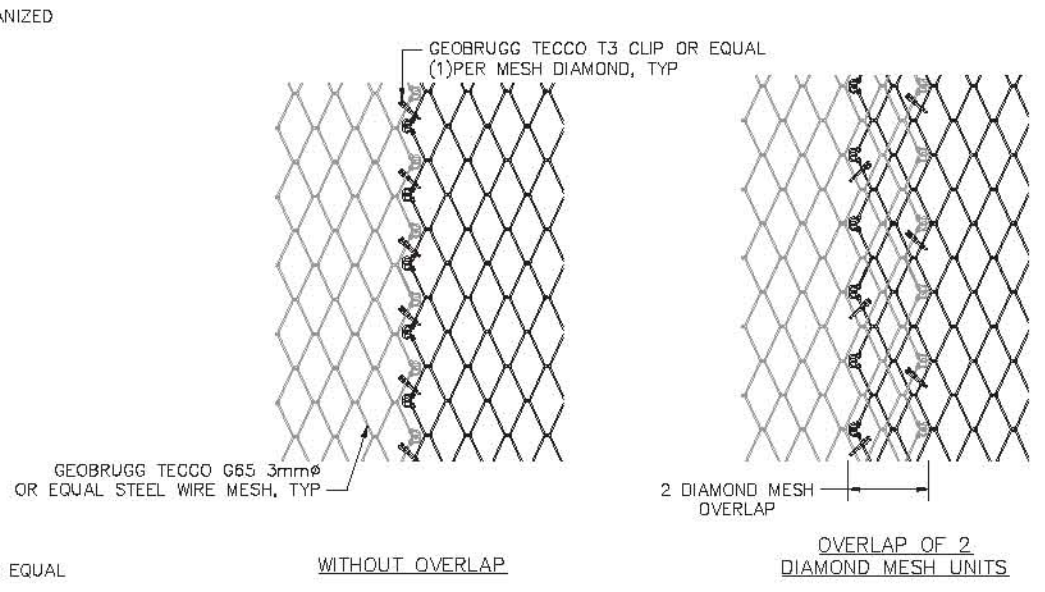
5 TECCO SYSTEM SPIKE PLATE P33
SCALE: NTS



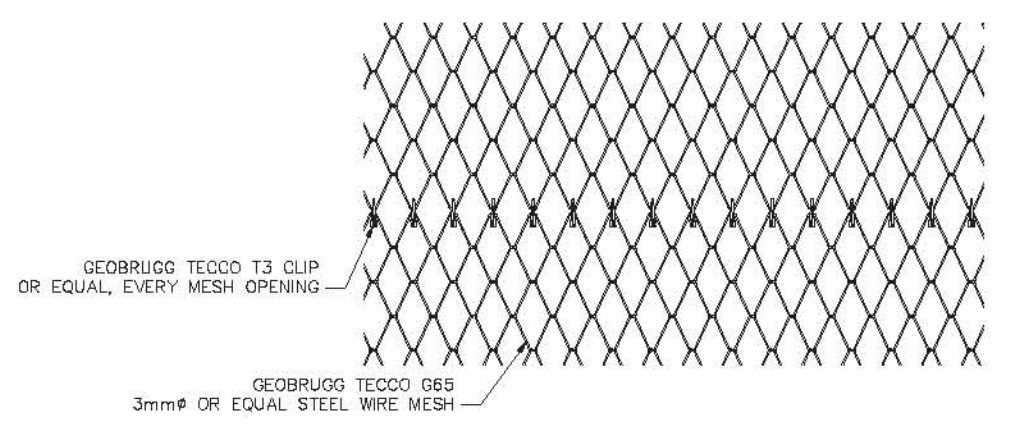
6 PRESS CLAW T2
SCALE: NTS



7 CONNECTION CLIP T3
SCALE: NTS



8 VERTICAL WIRE MESH CONNECTION DETAIL OPTIONS
SCALE: NTS



9 HORIZONTAL WIRE MESH CONNECTION DETAIL
SCALE: NTS

GEOBRUGG TENSIONED TECCO SYSTEM NOTES:

1. ALL MATERIALS SHALL COMPLY WITH THE PROJECT SPECIFICATION REQUIREMENTS.
2. ALL MATERIALS SHALL BE CORROSION RESISTANT PER PROJECT SPECIFICATIONS.
3. WIRE MESH SHALL BE GEOBRUGG TECCO G65/3 3mm DIAMETER HIGH STRENGTH STEEL WIRE MESH OR EQUAL.
4. TECCO SPIKE PLATES OR EQUAL SHALL BE INSTALLED HORIZONTALLY AS SHOWN ON THE DRAWINGS.
5. TECCO SPIKE PLATES OR EQUAL SHALL BE FITTED TO THE THREAD-BAR ANCHOR WITH HEAVY DUTY HEXAGONAL NUT WITH A WASHER.
6. SPIKE PLATES SHALL BE PRE-TENSIONED BY TIGHTENING OF THE HEAVY DUTY NUT AND MESH BE FIRMLY TENSIONED ONTO THE SURFACE MATERIAL.
7. THREAD-BAR ANCHORS SHALL BE PRE-TENSIONED TO A FORCE OF 6.75 kips (30 kN) WITH A REQUIRED TORQUE VALUE OF 258 ft-LBF (0.35 kNm) PER ANCHOR.
8. THREAD-BAR ANCHORS SHALL BE 1 1/4in (32mm) DIAMETER GRADE 75ksi STEEL WILLIAMS FORM THREAD-BAR OR EQUIVALENT.
9. BOUNDARY ROPES SHALL BE CONNECTED TO THE MESH USING TYPE 2 COMPRESSION CLAWS OR EQUIVALENT.
10. SPIKE PLATES SHALL BE INSTALLED ON THE INSIDE OF THE BOUNDARY ROPES AS SHOWN ON THE DRAWINGS AND GEOBRUGG TECCO SYSTEM PRODUCT MANUAL SECTION 11.8 "MESH EDGES".
11. TECCO MESH OR EQUAL END PANEL CONNECTIONS SHALL BE CONNECTED USING THE METHODS SHOWN IN DETAILS 4, 8 AND 9.
12. COMPRESSION CLAWS SHALL BE INSTALLED;
 - 12.1 TOP BOUNDARY ROPE (AT EDGE BEAM) - EVERY THIRD INDIVIDUAL MESH
 - 12.2 BOTTOM BOUNDARY ROPE - EVERY THIRD INDIVIDUAL MESH.
 - 12.3 SIDE BOUNDARY ROPES - EVERY SECOND INDIVIDUAL MESH.
13. IF SOIL IS DETERMINED AT THE THREAD-BAR ANCHOR LOCATION, THREAD-BAR ANCHORS SHALL BE RECESSED PER GEOBRUGG TECCO SYSTEM PRODUCT MANUAL SECTION 10.3.
14. 1/2" (12mm) dia WIRE ROPE
 - 14.1 REQUIRED WIRE ROPE CLIPS = 4 PER WIRE ROPE LOOP
 - 14.2 EACH WIRE ROPE CLIP SPACING = 2-3 INCHES
 - 14.3 WIRE ROPE CLIP TIGHTENING TORQUE = 40 ft-LBF (55 Nm)
 - 14.4 WIRE ROPE TAIL (AFTER LAST WIRE ROPE CLIP) = 9 INCHES MINIMUM
15. FASTENING OF WIRE BOUNDARY ROPES TO WIRE ROPE ANCHORS SHALL BE PERFORMED PER PRODUCT MANUAL SECTION 11.9.
16. ALL MISCELLANEOUS MATERIALS INCLUDING WIRE ROPE CLIPS, THIMBLES, SHACKLES, SWAGED FERRULES, SHALL BE SUPPLIED BY THE VENDOR, AND GALVANIZED.
17. THREAD-BAR ANCHORS SHALL BE PERFORMANCE TESTED PER PROJECT SPECIFICATIONS. A MINIMUM OF THREE (3) TOTAL THREADED BAR ANCHORS SHALL BE TESTED OR AT THE DISCRETION OF THE ENGINEER OF RECORD.
18. FOR MESH INSTALLATION AROUND TREES, UTILITY POLES, AND EXISTING CULVERTS SEE GEOBRUGG TECCO SYSTEM PRODUCT MANUAL SECTION 14.5.1 "HOLES FOR TREES".
19. THE CONTRACTOR SHALL REMOVE ALL LOOSE AND/OR UNSTABLE ROCK (I.E. SCALING) AS NEEDED IN ORDER TO ENSURE THE STABILIZATION SYSTEM CAN BE INSTALLED ADEQUATELY AND FUNCTION AS DESIGNED.

SLOPE REINFORCEMENT
DETAILS NO. 2
SCALE : NO SCALE

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Michael W. Blahnik
 REGISTERED CIVIL ENGINEER
 DATE: 8/28/2018

DESIGNED: MP
 DRAWN: TAK
 CHECKED: MW
 DATE: 5/8/18
 ROAD NUMBER:

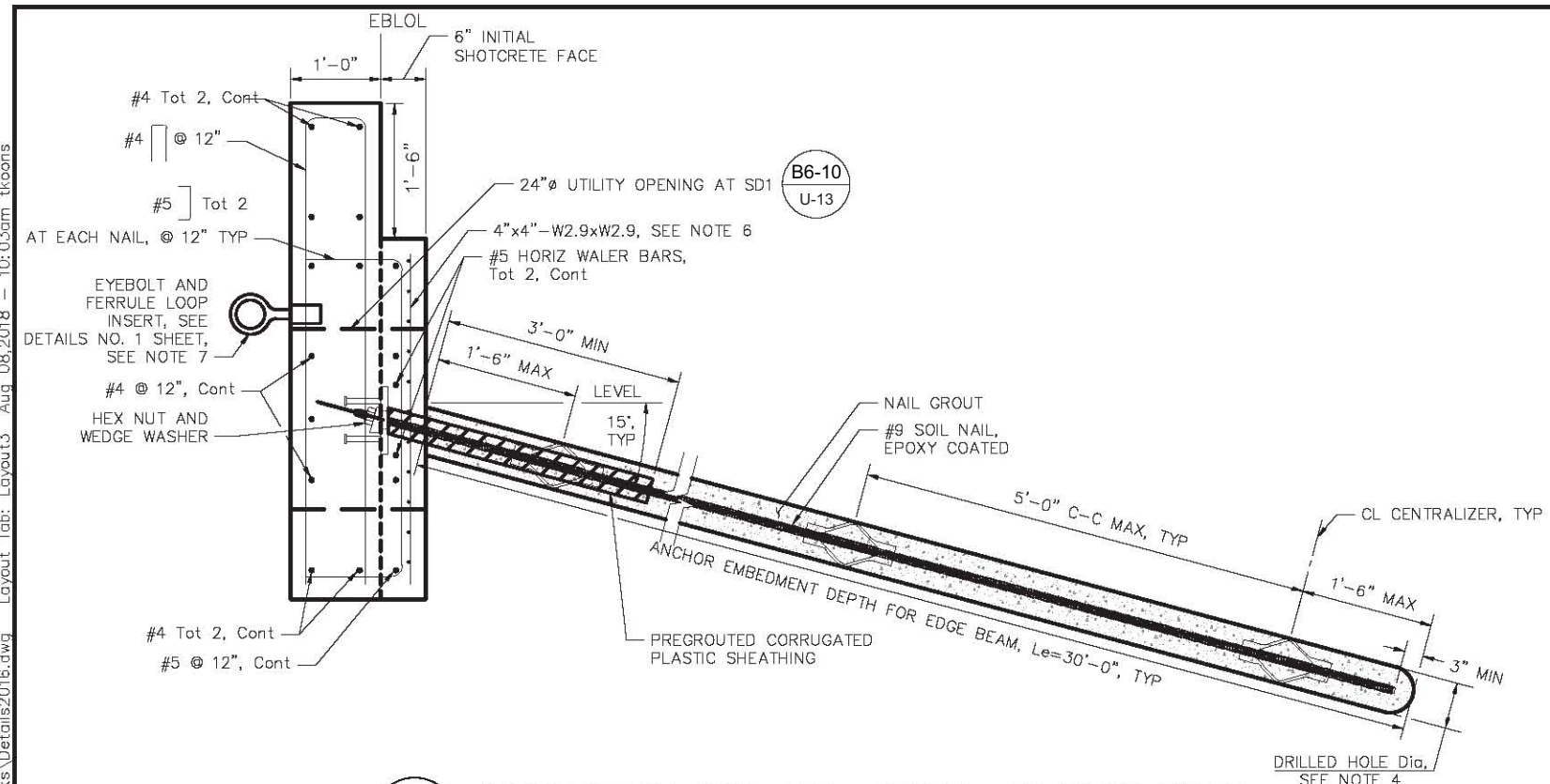


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

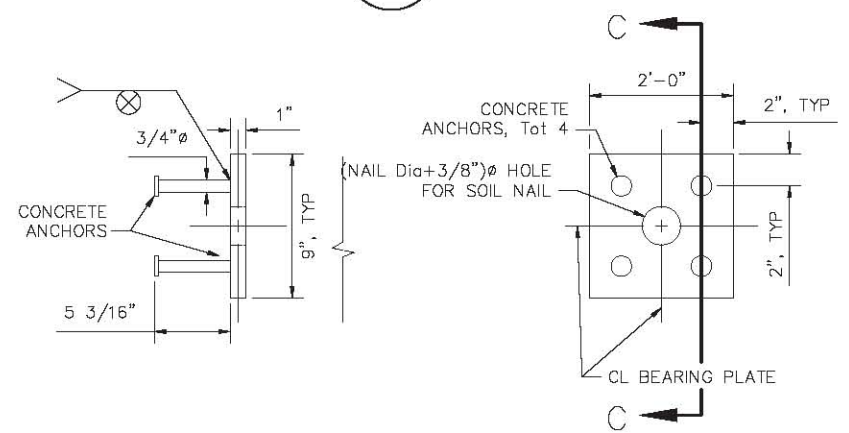
GREEN VALLEY ROAD
SLIPOUT REPAIR

SHEET
S-3
7 OF 8
W.O. No. 78707

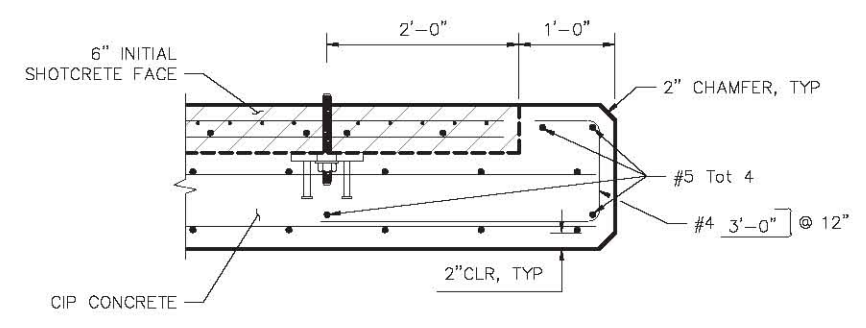
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 Aug 08, 2018 10:03am
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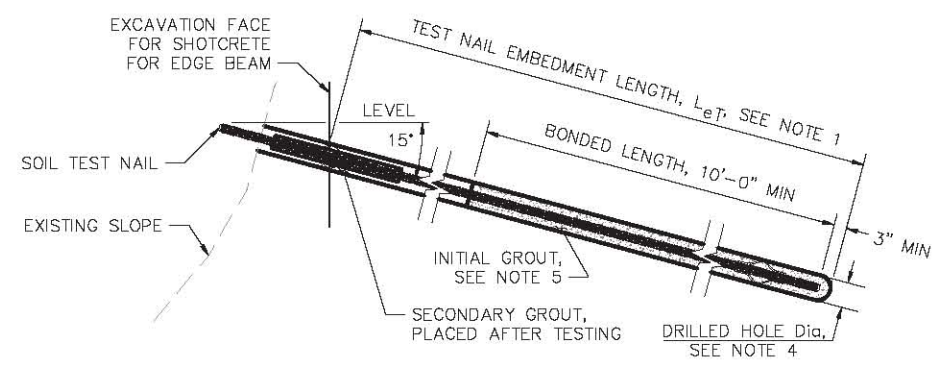
11 PRODUCTION SOIL NAIL DETAIL AT EDGE BEAM
 SCALE: NTS



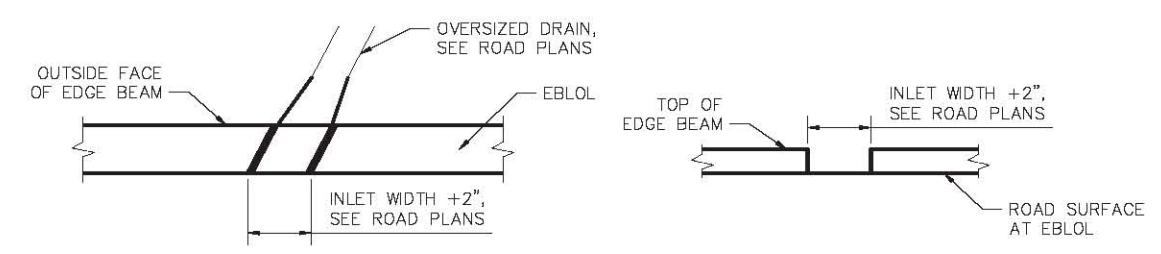
12 BEARING PLATE DETAIL
 SCALE: NTS



13 TYPICAL END WALL DETAIL
 SCALE: NTS



14 TEST SOIL NAIL DETAIL
 SCALE: NTS



15 EDGE BEAM OPENING FOR OVERSIZED DRAIN
 SCALE: NTS

- NOTES:**
1. THE TEST NAIL EMBEDMENT LENGTH, L_{eT} , SHALL BE EQUAL TO 2/3 OF THE EMBEDMENT LENGTH, L_e , OF ADJACENT PRODUCTION SOIL NAIL ASSEMBLIES, BUT NOT LESS THAN 10'-0".
 2. THE TOTAL LENGTH OF THE PROOF TEST SOIL NAIL ASSEMBLY EQUALS TO THE EMBEDMENT LENGTH PLUS THE LENGTH REQUIRED FOR JACKING EQUIPMENT.
 3. FOR LOCATION OF PROOF TEST NAILS WILL BE INSTALLED AND TESTED PER SPECIAL PROVISIONS.
 4. CONTRACTOR TO DETERMINE DRILLED HOLE DIAMETER.
 5. FINISHED GROUT SURFACE TO BE NORMAL TO THE BAR.
 6. 8" MINIMUM LAP SPLICE LENGTH FOR WELDED WIRE FABRIC.
 7. OMIT EYBOLTS AT EDGE BEAM FROM 'GV' 10+95.00 TO 'GV' 12+05.00

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Michael W. W.
 REGISTERED CIVIL ENGINEER
 DATE: 8/28/2018

DESIGNED: MP
 DRAWN: TAK
 CHECKED: MW
 DATE: 5/8/18
 ROAD NUMBER:



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD
 SLIPOUT REPAIR

SLOPE REINFORCEMENT
 DETAILS NO. 3
 SCALE: NO SCALE

SHEET
 S-4
 8 OF 8
 W.O. No. 78707