

BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION	<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20  COVER SHEET, SHEET INDEX, AND MAPS	SHEET <b>1</b> OF <b>12</b>
	ROAD NO: 4A150 PROJECT NO.: FEMA 4434-DR-CA PW-194 CONTRACT NO.: 219339 DRAWING FILE NAME: TGAP-G-GN-COVR.dwg PLOT DATE: 4/27/2023	MILE POST: 1.20 EA NO.: NONE PPNO: NONE REVISION DATE: ---		

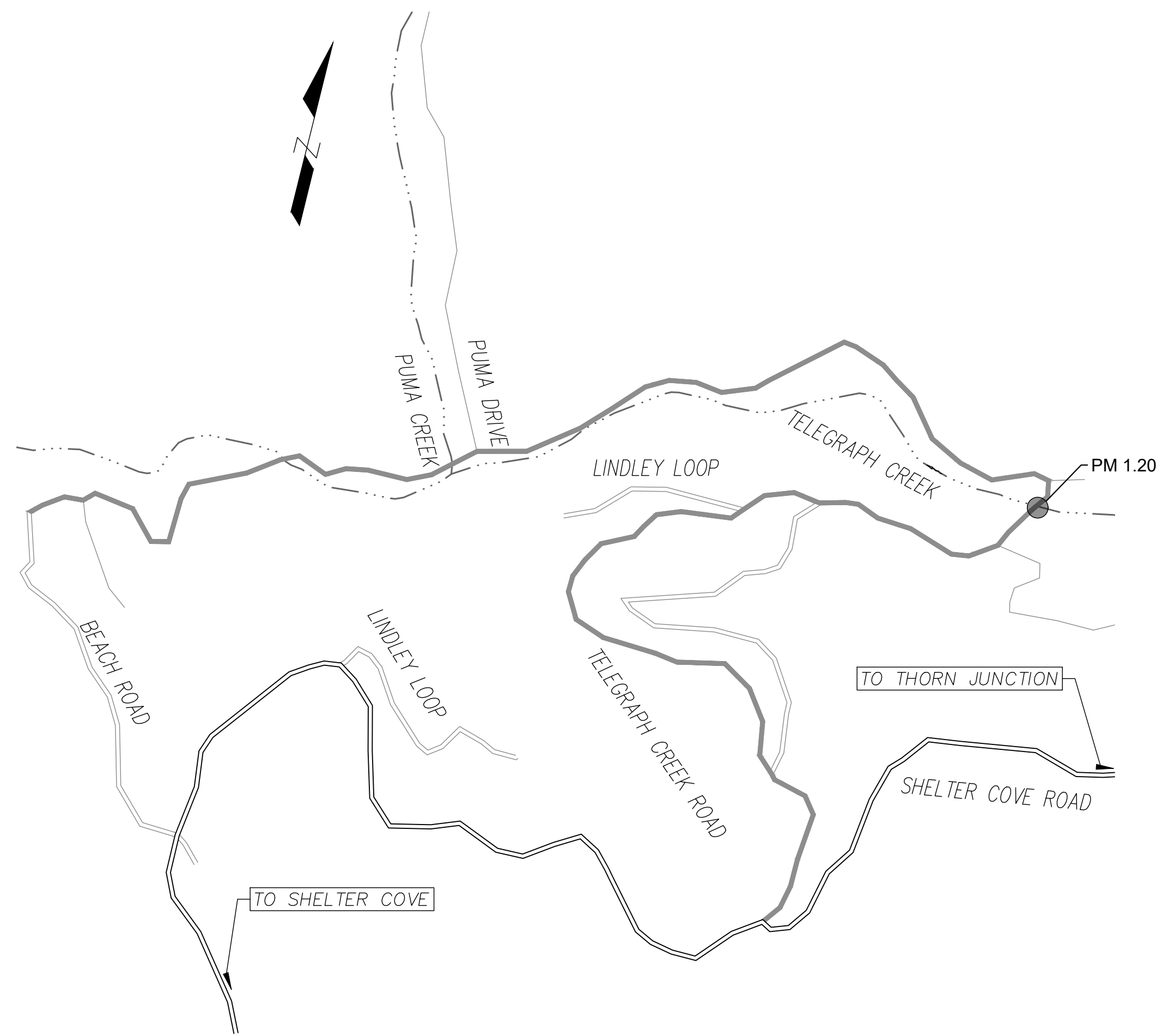
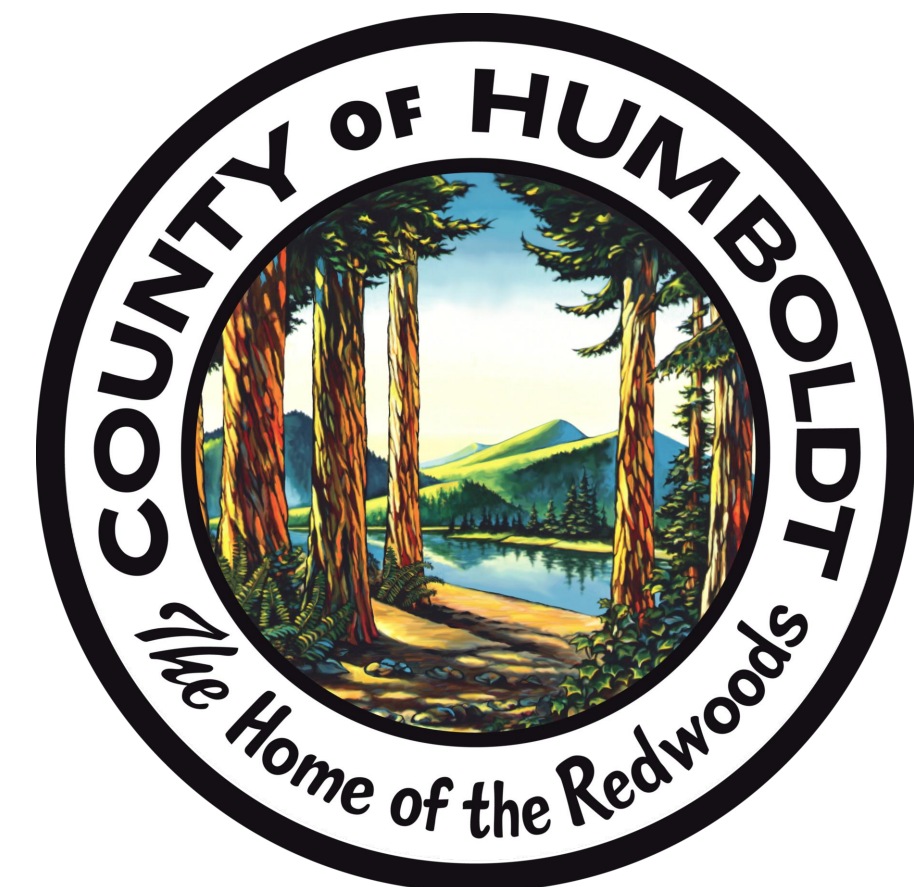
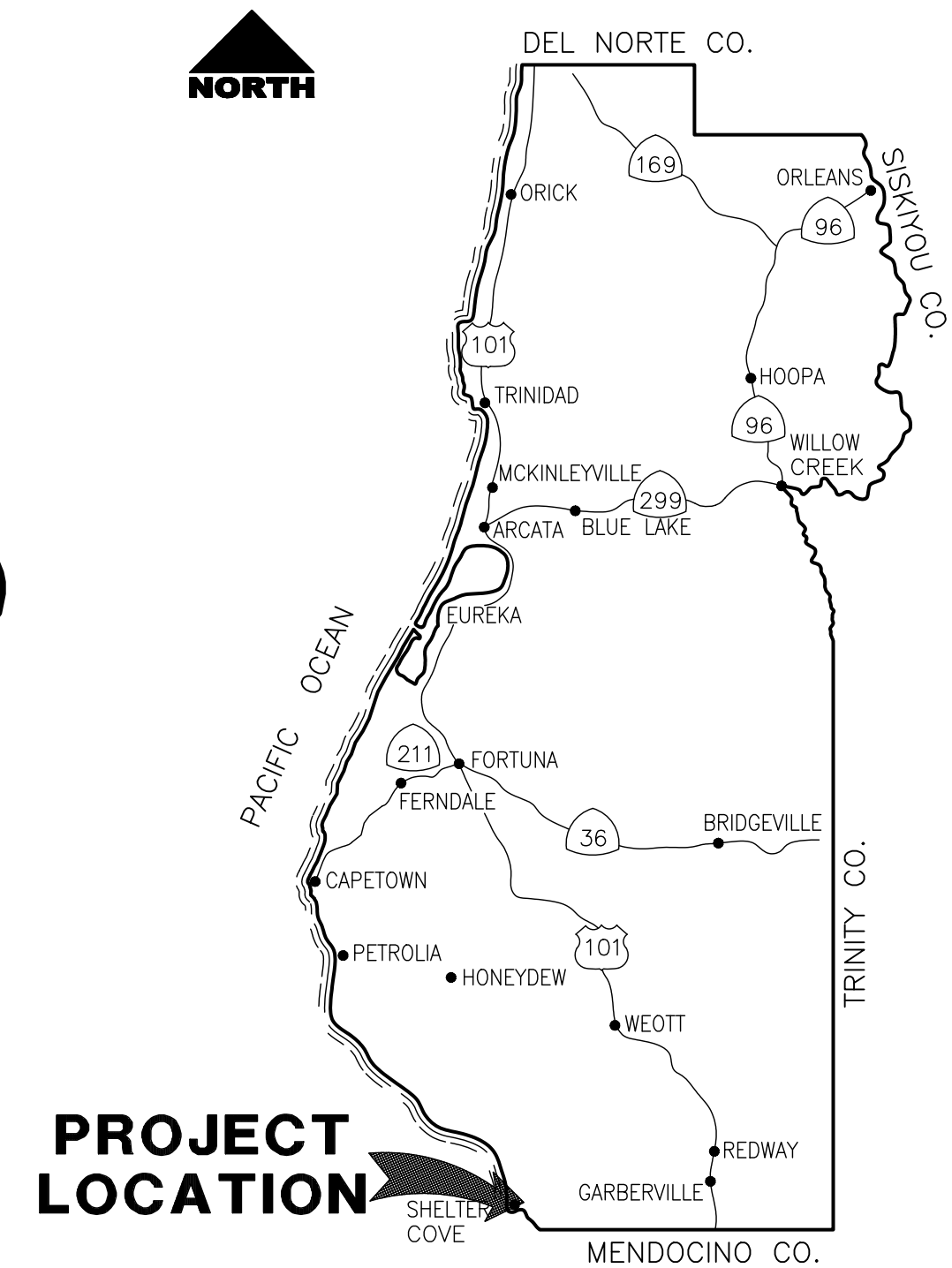
**FUNDING SOURCE**

THIS PROJECT IS FUNDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AND THE CALIFORNIA OFFICE OF EMERGENCY SERVICES.



# COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

## PROJECT PLANS FOR CONSTRUCTION OF STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD (4A150) P.M. 1.20 PROJECT NO. FEMA 4434-DR-CA PW-194 CONTRACT NO. 219339



**INDEX OF SHEETS**

- 1 COVER SHEET, SHEET INDEX, AND MAPS
- 2 PROJECT SURVEY CONTROL
- 3 CONSTRUCTION AREA SIGNS, DETOUR, STAGING & STOCKPILE AND QUANTITIES
- 4 DIVERSION PLAN
- 5 TYPICAL SECTIONS AND DETAILS
- 6 CULVERT PLAN & PROFILE
- 7 ROAD PLAN & PROFILE
- 8 EROSION CONTROL, RSP & REVEGETATION PLAN
- 9-10 STREAM CROSS SECTIONS
- 11-12 ROADWAY CROSS SECTIONS

**NOTES**

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.  
 PROJECT PLANS AND SPECIAL PROVISIONS TO BE SUPPLEMENTED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, STANDARD SPECIFICATIONS AND THE LATEST REVISED 2022 STANDARD PLANS & SPECIFICATIONS  
 (SEE APPLICABLE STANDARD PLAN LIST IN SPECIAL PROVISIONS)

**DESIGN DESIGNATION**

ADT = 107 VEHICLES/DAY      Q100 = 456 CFS  
 V = 35 MPH

**RECOMMENDED**

*Jeffrey A. Ball*  
 JEFFREY A. BALL  
 RCE 70631, EXP. 6/30/2023  
 5-1-2023  
 DATE



**APPROVED**

*Tony R. Seghetti*  
 TONY R. SEGHETTI  
 RCE 63714, EXP. 9/30/2024  
 5/1/2023  
 DATE



ORIGINAL LOW BID PRICE	CONSTRUCTED BY	RESIDENT ENGINEER
	PROJECT COMPLETED	CONSTRUCTION COST \$

S:\Engineering\projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet





ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE
CONTRACT NO.: 219339	PPNO: NONE
DRAWING FILE NAME: TGAP-C-CT-PLAN.dwg	REVIEWED BY: JAB
PLOT DATE: 4/27/2023	REVISION DATE: ---
	APPROVED BY: TRS

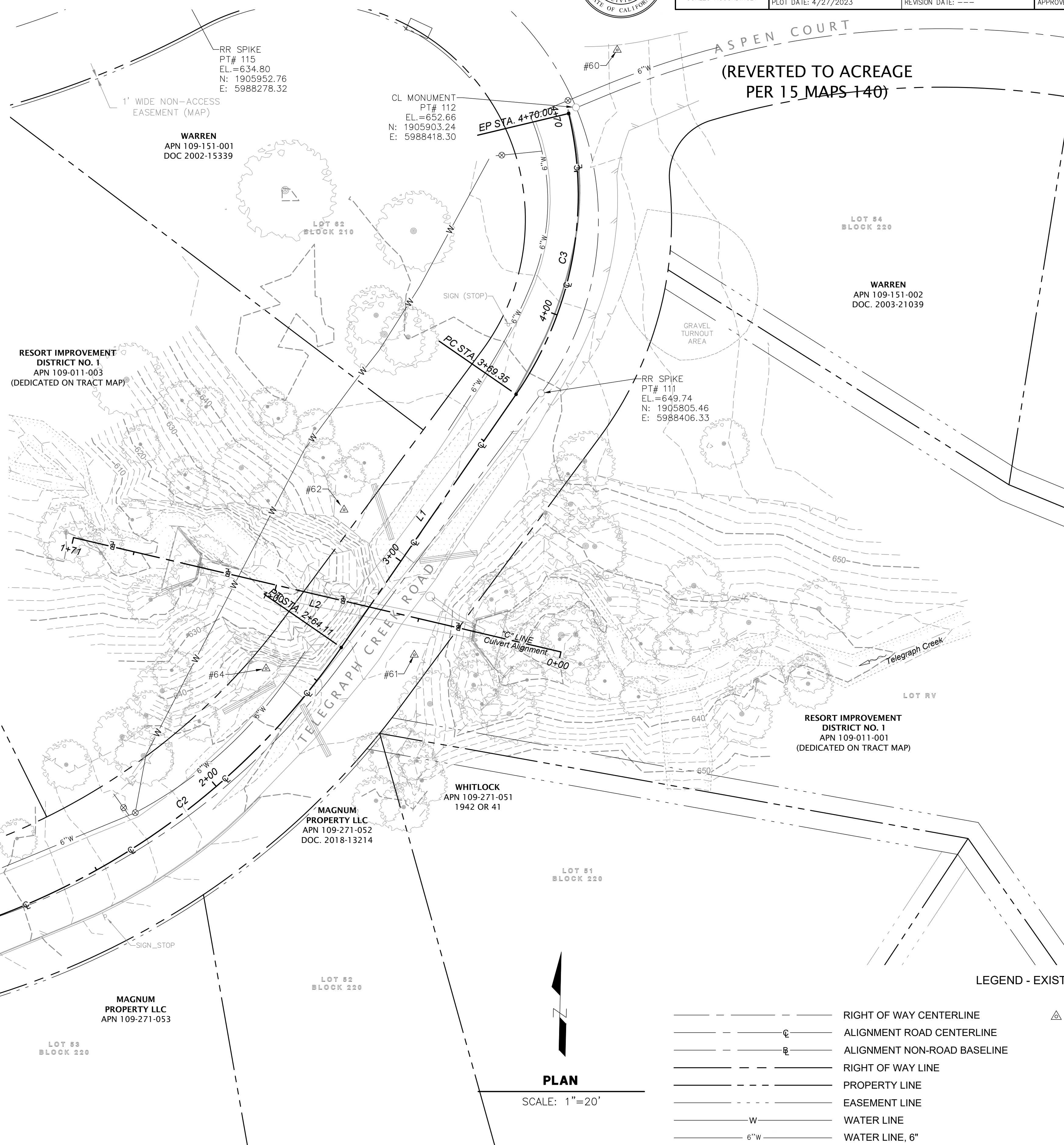
<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20</b> <b>PROJECT SURVEY CONTROL</b>	<b>SHEET</b> <b>2</b> <b>OF</b> <b>12</b>
---	--

**SURVEY NOTES:**

- The purpose of this survey is to determine topography for a storm damage repair project on Telegraph Creek Road at Post Mile 1.2 relative to subdivision boundary lines and to set control for future construction. Field work was performed by Points West Surveying in May 2020. This survey reflects conditions as of that time. The roadway has been temporarily fixed with a railcar bridge on gravel abutments as shown hereon.
- Underground utilities shown hereon are based on ties made in the field to visible utility structures. The former underground water line in the project site has been rerouted as an overhead line as shown hereon. No sewer exists in this area of the Shelter Cove Subdivision. No telephone or electric poles or paddles were located within the project site. See Underground Utility Note hereon.
- Horizontal datum is the Shelter Cove Subdivision, Tract No. 42, per ties to record subdivision monuments shown hereon. Resultant bearings are grid bearings. Distances within the electronic file are ground distances. This survey holds the record bearing between centerline monuments shown as #109 and #115 hereon. See Sheets 37 & 38 of 66, as recorded in Book 14 of Maps, Pages 109 & 110, Humboldt County Records, for additional information.
- Vertical datum is the Shelter Cove Subdivision datum as memorialized by Hugh Kelly with Benchmark No. 1 set during the course of a topographic survey for Humboldt County of the Shelter Cove Airport in November 1990, based on ties to locations shown on the aerial photogrammetry on this datum performed for Resort Improvement District No. 1 in March 2007.
- Only trees greater than 12 inches in diameter were located within the project site. Other trees exist in surveyed area and are not shown. Tree locations are approximate as not all are growing vertically; generally trees are located at breast height. Because of the large amount of trees in the project area, tree size labels are not shown; see the data in the electronic file for information on tree sizes.
- The project site has a large amount of downed trees overhanging the creek and sections of damaged culvert within the creek bed that have not been mapped or shown hereon. The concrete headwall on the southerly

**GENERAL NOTES:**

- Contractor must comply with business and professions code section 8771 (b) regarding referencing, preserving and reconstructing monuments, whether or not monuments are shown in these plans.
- If survey monument is damaged by contractors operations, contractor shall replace survey monument at contractors expense.



"T" LINE						
NO.	LENGTH	RADIUS	DELTA	DIRECTION	START PT.	END PT.
C1	110.76	569.00	011°09'11"	---	STA. 0+00.00 N. 1905577.86 E. 5988119.18	STA. 1+10.76 N. 1905625.99 E. 5988218.74
C2	153.35	250.00	035°08'46"	---	STA. 1+10.76 N. 1905625.99 E. 5988218.74	STA. 2+64.11 N. 1905718.51 E. 5988338.03
C3	100.65	120.00	048°03'28"	---	STA. 3+69.35 N. 1905805.10 E. 5988397.83	STA. 4+70.00 N. 1905901.16 E. 5988415.80
L1	105.23	---	---	N34° 37' 44"E	STA. 2+64.11 N. 1905718.51 E. 5988338.03	STA. 3+69.35 N. 1905805.10 E. 5988397.83

"C" LINE						
NO.	LENGTH	RADIUS	DELTA	DIRECTION	START PT.	END PT.
L2	171.25	---	---	N76° 48' 02"W	STA. 0+00.00 N. 1905716.99 E. 5988413.17	STA. 1+71.25 N. 1905756.09 E. 5988246.45

POINT TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
60	1905922.87	5988432.41	654.32	CP_MAG
61	1905715.99	5988363.00	646.72	CP_SPK
62	1905765.60	5988338.97	646.77	CP_SPK
63	1905562.72	5988133.07	677.28	CP_RBR_PP_PWS
64	1905711.30	5988312.28	647.71	CP_SPK
109	1905619.82	5988198.51	664.33	FD_RRSPPK_TOP
111	1905805.46	5988406.33	649.74	FD_RRSPPK
112	1905903.24	5988418.30	652.66	FD_CL_MON_ILLG_TIED_PUNCH
115	1905952.76	5988278.32	634.80	FD_RRSPPK

**UNDERGROUND UTILITY NOTE**

Underground utilities are shown based on a combination of visible physical evidence and records made available to the surveyor. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities are in the exact locations indicated, although the surveyor does hereby state that they are shown as accurately as possible from the available information, noted above. The surveyor has not physically located the underground utilities.  
**Call Underground Service Alert (USA) 1-800-642-2444 a minimum of 48 hours prior to any excavations.**

**LEGEND - EXISTING FEATURES**

—	RIGHT OF WAY CENTERLINE	△	CONTROL POINT SET	W	WATER VALVE	~>	FLOW DIRECTION
- - -	ALIGNMENT ROAD CENTERLINE						
- - -	ALIGNMENT NON-ROAD BASELINE						
—	RIGHT OF WAY LINE						
- - -	PROPERTY LINE						
- - -	EASEMENT LINE						
—	WATER LINE						
6"W	WATER LINE, 6"						

S:\Engineering\Projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\CAD\Production\_Files\Sheet





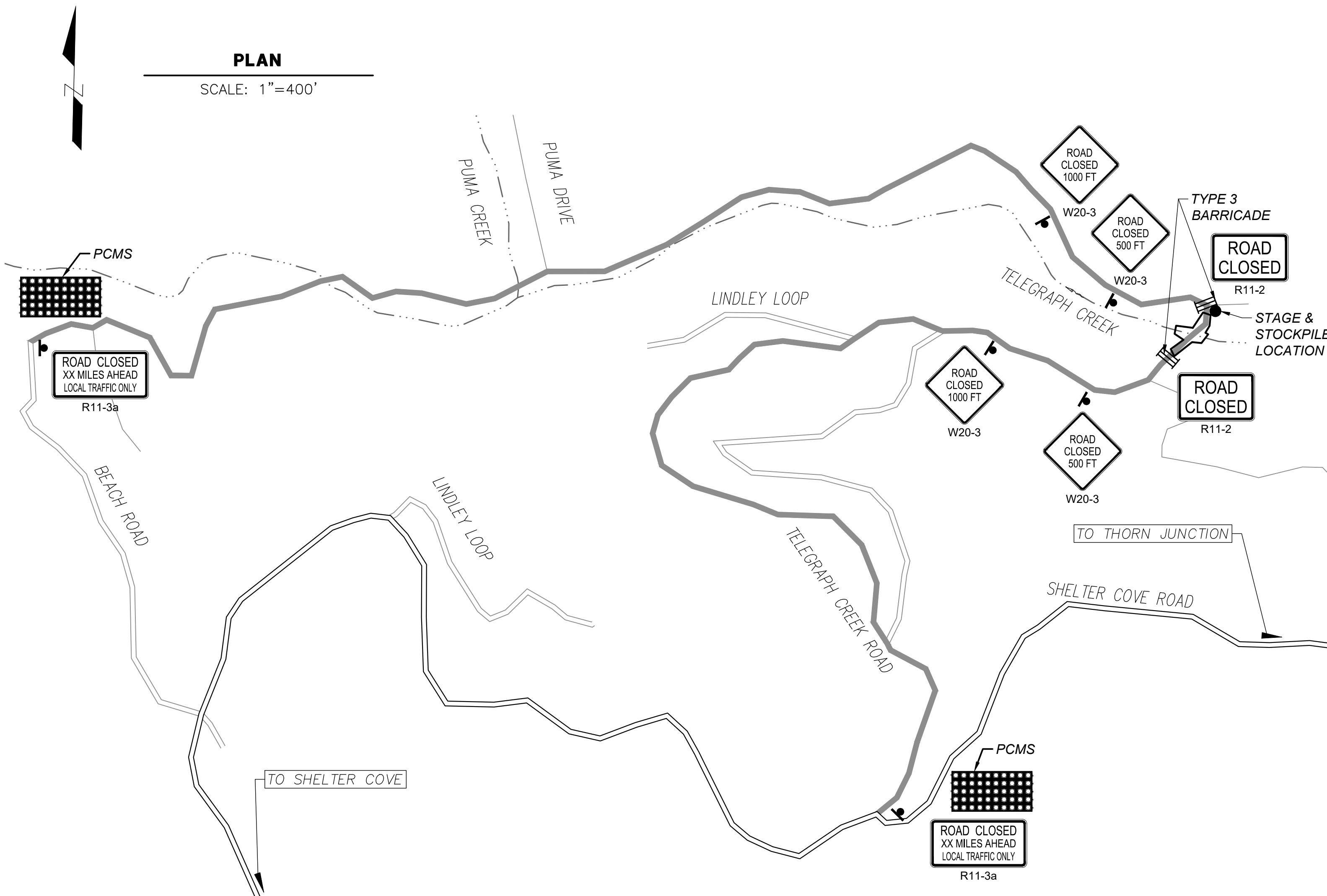
**NOTES**

- 1) SIGNS SHALL BE PLACED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- 2) FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
- 3) ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
- 4) SEE STANDARD PLAN T13 FOR TRAFFIC CONTROL SYSTEM. SEE RS1, RS2, RS4 FOR SIGN PLACEMENT.
- 5) IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
- 6) PLACE SIGNS APPROXIMATELY 500 FEET APART
- 7) DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE OF EACH OTHER.
- 8) KEEP A MINIMUM OF 1 TRAFFIC LANE AT LEAST 10 FEET WIDE OPEN FOR TRAFFIC, EXCEPT THE FULL WIDTH OF THE TRAVELED WAY (18' MINIMUM) MUST BE OPEN WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVE OR AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE.
- 9) CONTRACTOR MUST PROVIDE A MINIMUM OF 14 DAYS NOTICE OF COMPLETE ROAD CLOSURE TO ENGINEER.

**STOCKPILE NOTES- STD PLAN T53**

- 1) MANAGE MATERIAL STOCKPILE PER SECTION 13-4.03(C) OR CALTRANS STANDARD SPECIFICATION
- 2) SHALL HAVE STRAW WATTLES, HAY BALES AND OR SILT FENCE AROUND STOCKPILE
- 3) SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN T53).
- 4) IF STOCKPILE AREA IS IN A TURNOUT, THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
- 5) IF TEMPORARY CULVERTS ARE INSTALLED, THE DITCH LINE SHALL BE RECONSTRUCTED AT THE END OF THE PROJECT.
- 6) STOCKPILE LOCATIONS HAVE BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT. ALTERNATIVE SITES MAY BE APPROVED THROUGH PUBLIC WORKS IN WRITING.

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY
1	120090	Construction Area Signs	EA	8
2	120100	Traffic Control System	LS	1
3	120120	Type III Barricade	EA	6
4	128651	Portable Changeable Message Sign (EA)	EA	2
5	130100	Job Site Management	LS	1
6	130200	Prepare Water Pollution Control Program	LS	1
7	131201	Temporary Creek Diversion Systems	LS	1
8	150001	Salvage Temporary Railroad Flatcar Bridge & K-Rail	EA	1
9	170103	Clearing and Grubbing	LS	1
10	190101	Roadway Excavation	CY	1,209
11	192001	F Structure Excavation	CY	1,291
12	193001	F Structure Backfill	CY	246
13	198010	Imported Borrow (CY)	CY	251
14	198050	Embankment	CY	2,505
15	210212	Dry Seed	SQFT	5,662
16	210280	Rolled Erosion Control Product (Blanket)	SQFT	5,662
17	210350	Fiber Rolls	LF	482
18	210500	Willow Stakes	EA	60
19	210501	Red Alder Tree	EA	24
20	260203	Class 2 Aggregate Base	CY	208
21	390132	Hot Mix Asphalt (Type A)	TON	113
22	394073	Place Hot Mix Asphalt Dike (Type A)	LF	401
23	670701	96" Structural Steel Plate Pipe (.170" thick .249" invert)	LF	113
24	690964	18" Plastic Pipe Downdrain	LF	63
25	692107	18" Tapered Inlet	EA	2
26	692307	18" Anchor Assembly	EA	5
27	710131	Remove Culverts	LS	1
28	710155	Remove Concrete Headwalls and Wingwalls	LS	1
29	723010	Rock Slope Protection (4 T, Class XI, Method A)	CY	183
30	723015	Rock Slope Protection (2 T, Class IX, Method A)	CY	258
31	723030	Rock Slope Protection (1/2 T, Class VII, Method A)	CY	69
32	729011	Rock Slope Protection Fabric (Class 8)	SQYD	113
33	729012	Rock Slope Protection Fabric (Class 10)	SQYD	429
34	780230	Survey Monument (Type D)	EA	1
35	999990	Mobilization	LS	1
<b>ADDITIVE OPTION</b>				
A1	770200	Repair Water Line	LS	1



**CONSTRUCTION AREA SIGN SUMMARY**

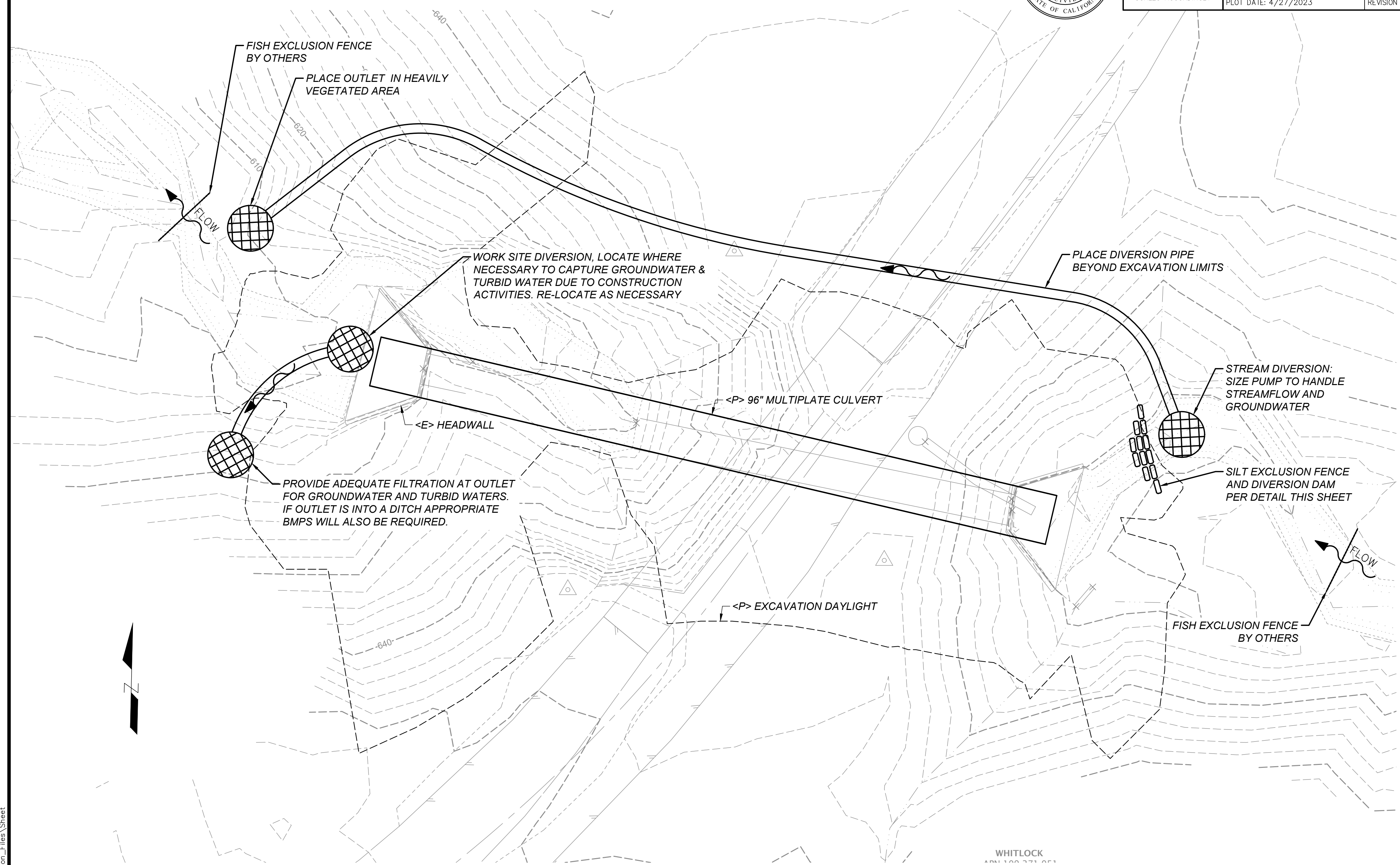
SIGN CODE	QTY	SIGN MESSAGE	PANEL SIZE	NUMBER & POST SIZE
W20-3	2	ROAD CLOSED 500 FT	36" x 36"	(1) 4" x 4"
W20-3	2	ROAD CLOSED 1000 FT	36" x 36"	(1) 4" x 4"
R11-2	2	ROAD CLOSED	48" x 30"	(3) TYPE 3 BARRICADE
R11-3A	1	ROAD CLOSED 1.1 MILES AHEAD LOCAL TRAFFIC ONLY	60" x 30"	(1) 4" x 4"
R11-3A	1	ROAD CLOSED 1.4 MILES AHEAD LOCAL TRAFFIC ONLY	60" x 30"	(1) 4" x 4"
PCMS	2	PORTABLE CHANGEABLE MESSAGE SIGN	TRAILER MOUNTED AND LOCATED AT TELEGRAPH CREEK RD INTERSECTIONS AT BEACH RD AND SHELTER COVE RD	

S:\Engineering\projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet





BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION	<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b>  <b>STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20</b>  <b>DIVERSION PLAN</b>	SHEET <b>4</b> OF <b>12</b>
	ROAD NO: 4A150	MILE POST: 1.20		
	PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE	DESIGNED BY: CKH	
	CONTRACT NO.: 219339	PPNO: NONE	DRAWN BY: CKH	
	DRAWING FILE NAME: TGAP-G-GN-OVRV.dwg	REVIEWED BY: JAB		
	PLOT DATE: 4/27/2023	REVISION DATE: ---	APPROVED BY: TRS	

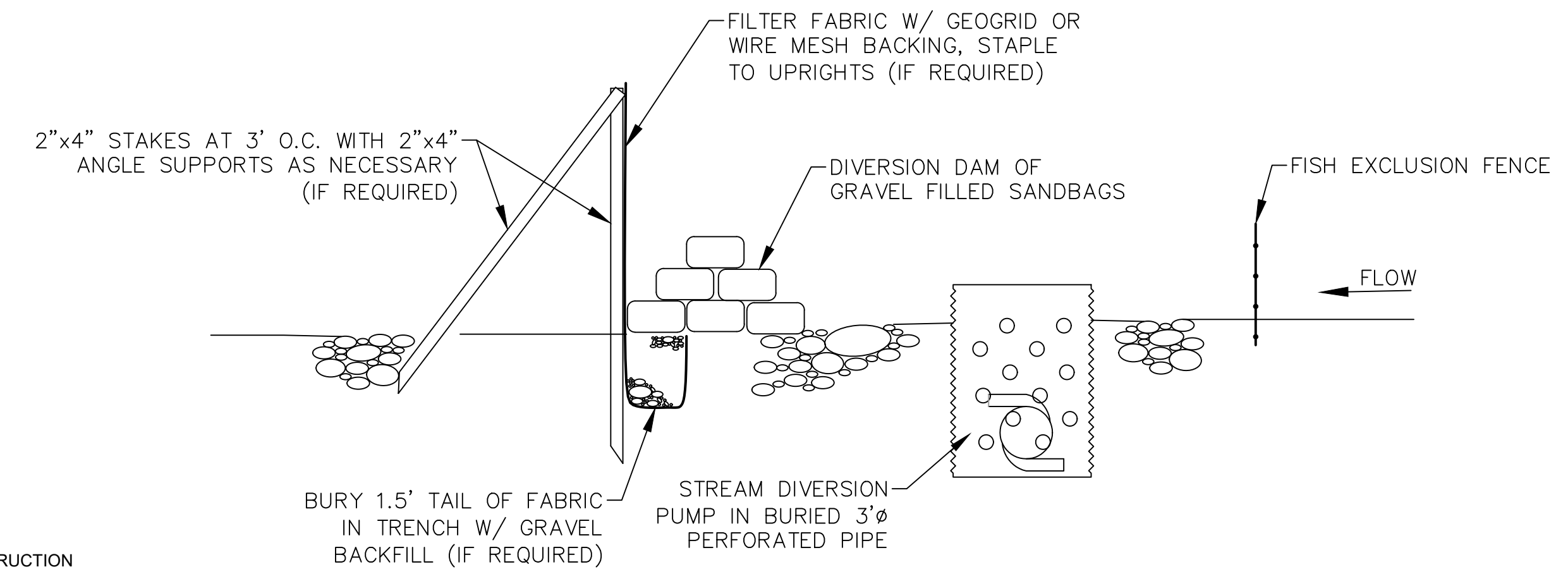


**PLAN**

SCALE: 1"=10'

**LEGEND**

	EMBANKMENT
	LOC LIMITS OF CONSTRUCTION
	EXCAVATION DAYLIGHT



**CREEK DIVERSION DETAIL**

NOT TO SCALE

**NOTES**

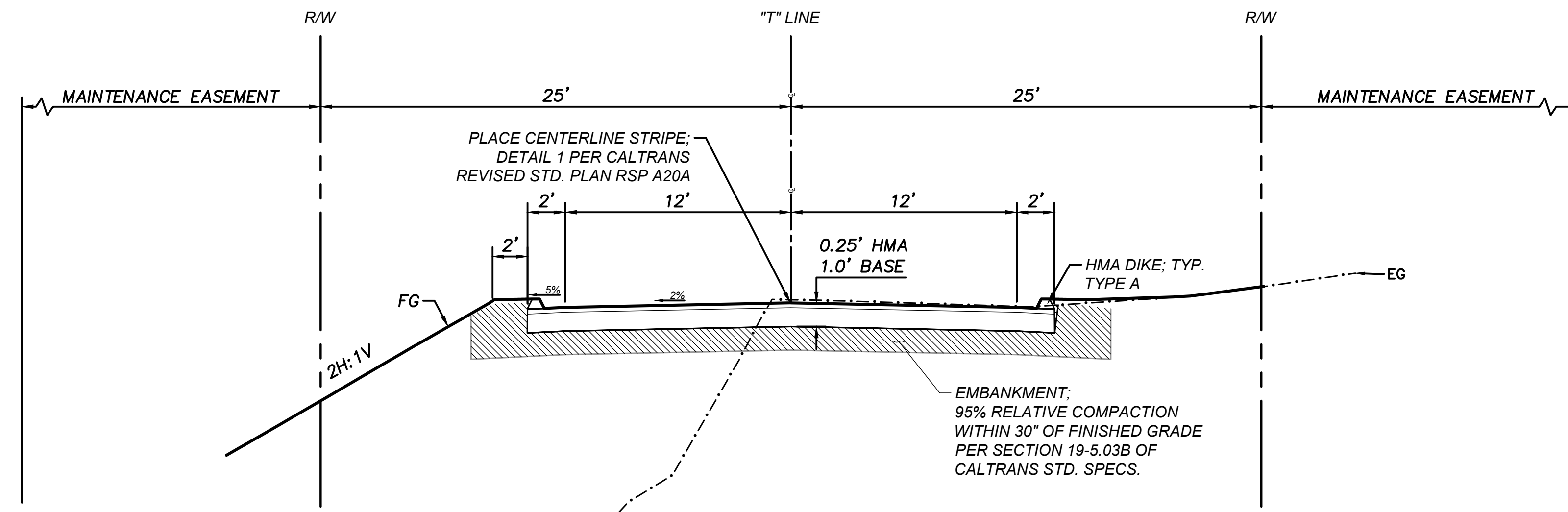
1. THE PUMP WILL RUN 24/7 AS NEEDED TO DIVERT STREAM FLOW THROUGH THE SITE USING A GAS GENERATOR OR SIMILAR DEVICE.
2. PLACE GENERATOR IN A CONTAINMENT STRUCTURE AND HAVE SECONDARY CONTAINMENT STRUCTURE FOR FUELING.
3. PLACE STREAM INLET PUMP IN A 3' DIAMETER PERFORATED PIPE, 40 GALLON BUCKET, OR SIMILAR STRUCTURE WITH HOLES TO CAPTURE STREAM FLOW AND GROUND WATER. THIS WILL DIVERT SURFACE AND SUBSURFACE FLOW. A SAND-BAG COFFER DAM WILL BE BUILT AROUND STREAM INLET PUMP TO ENSURE ALL WATER IS ADEQUATELY PUMPED FROM ACTIVE WORK SITE.
4. DISCHARGE THE STREAM DIVERSION OUTLET DOWNSTREAM OF EXCAVATION LIMITS INTO A DISSIPATION SYSTEM THAT MINIMIZES EROSION OR SCOUR.
5. THE WORK SITE DIVERSION MUST DISCHARGE ACCUMULATED GROUNDWATER AND WATERS THAT ARE TURBID DUE TO CONSTRUCTION ACTIVITIES IN AN AREA THAT IS EITHER HEAVILY VEGETATED EMBANKMENT OR IN THE ROADSIDE DITCH THAT DRAINS BACK INTO TELEGRAPH CREEK.
6. ADEQUATE FILTRATION MUST BE PROVIDED FOR ALL DIVERSION SYSTEM OUTLETS.
7. ALTERNATE DIVERSIONS SYSTEMS, INCLUDING GRAVITY WILL BE CONSIDERED, BUT MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

S:\Engineering\projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\CAD\Production\_Files\Sheet

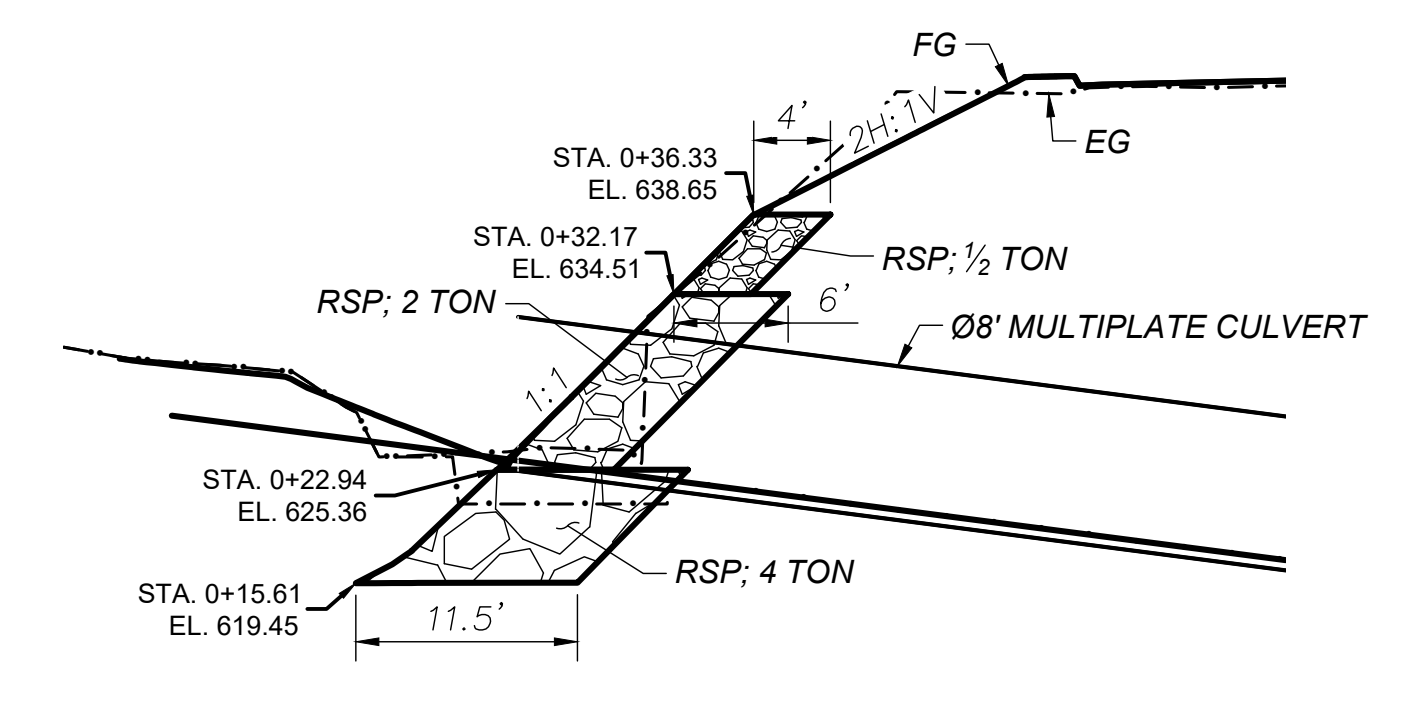
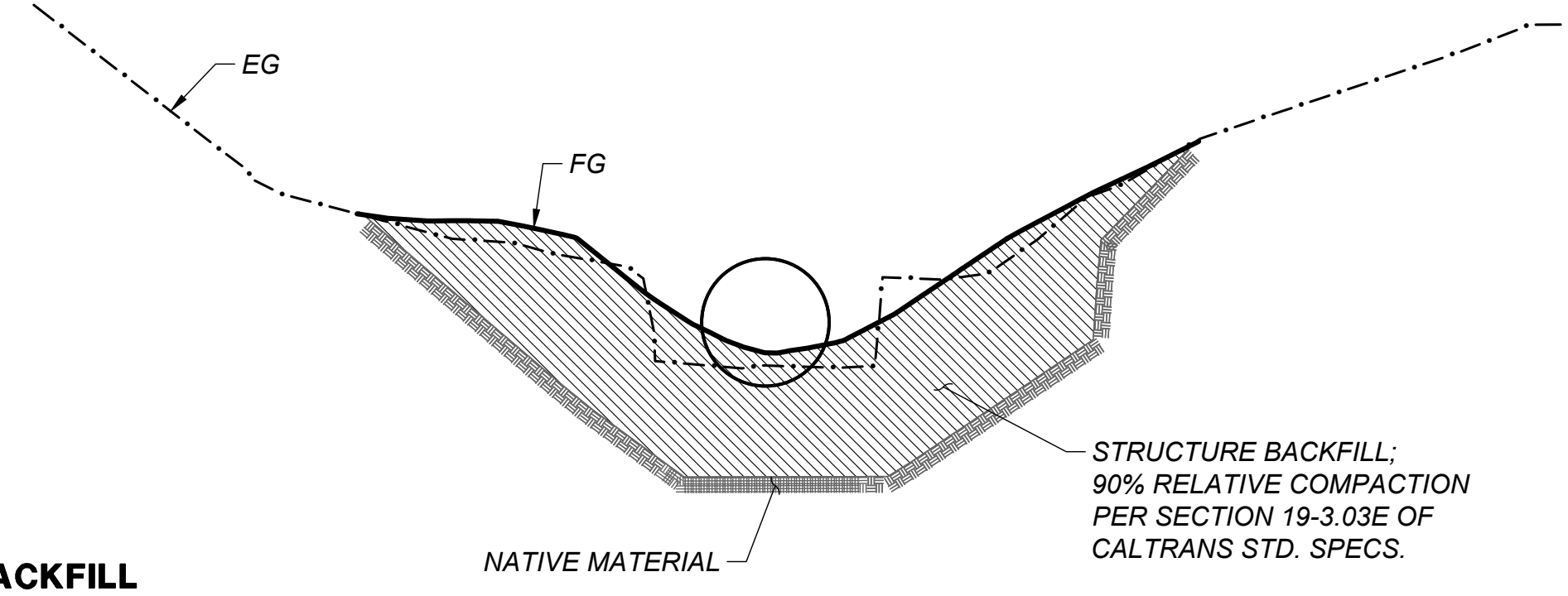
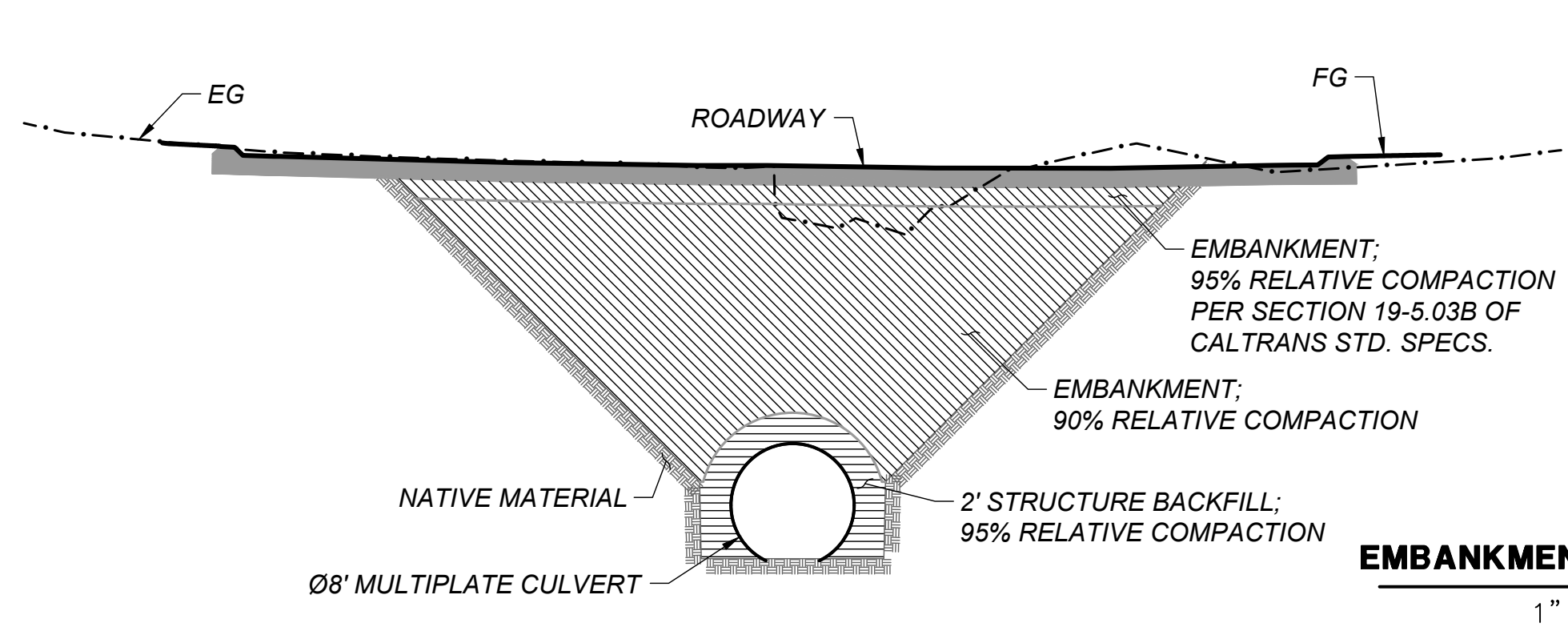
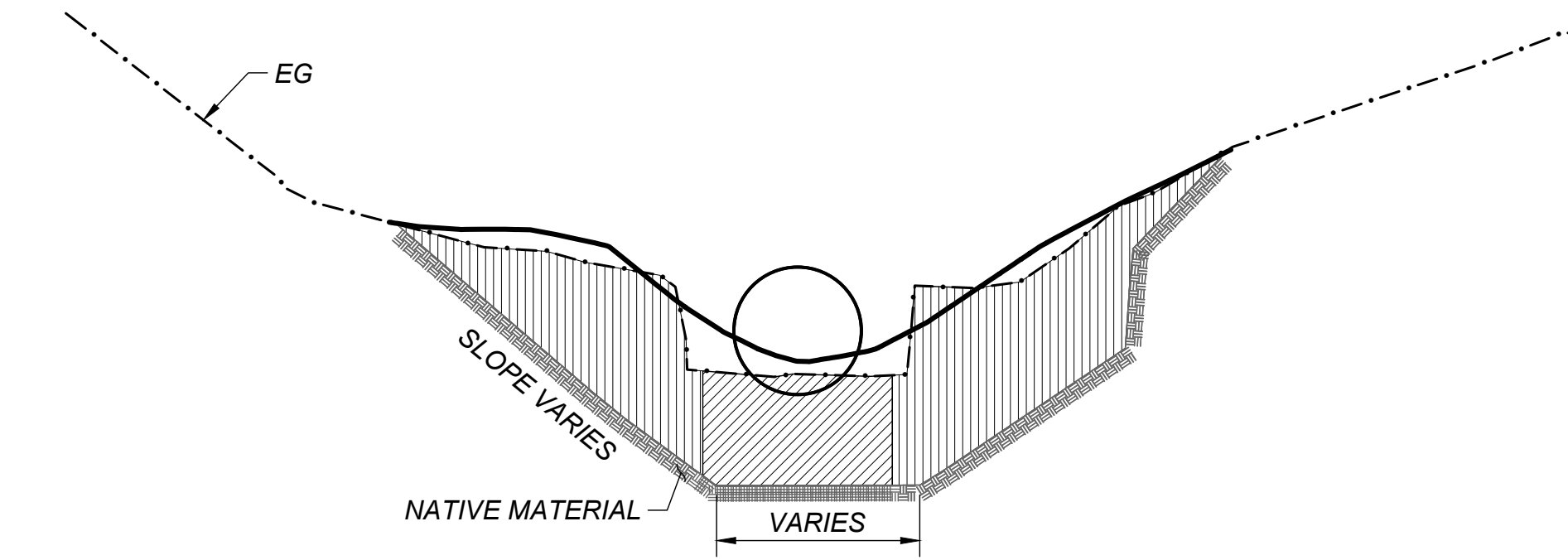
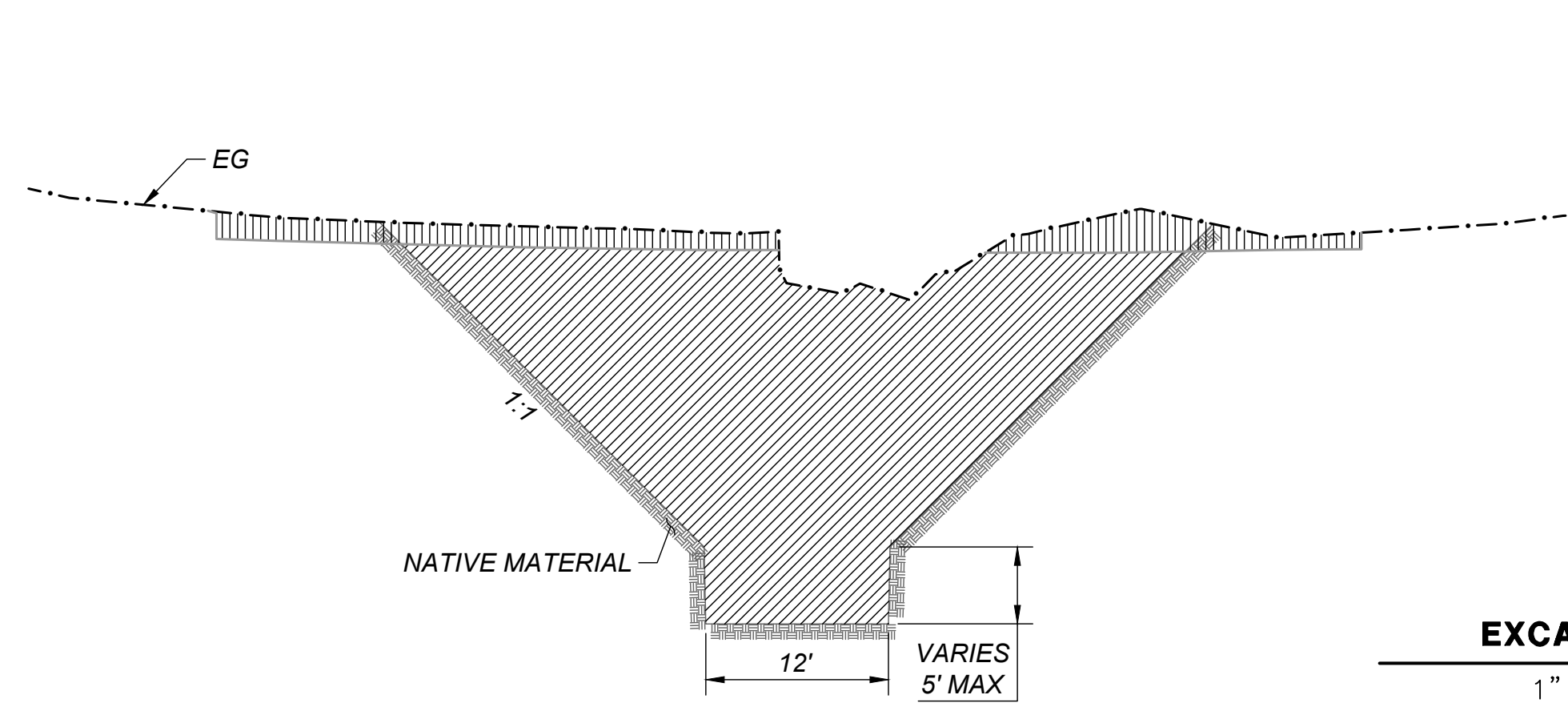




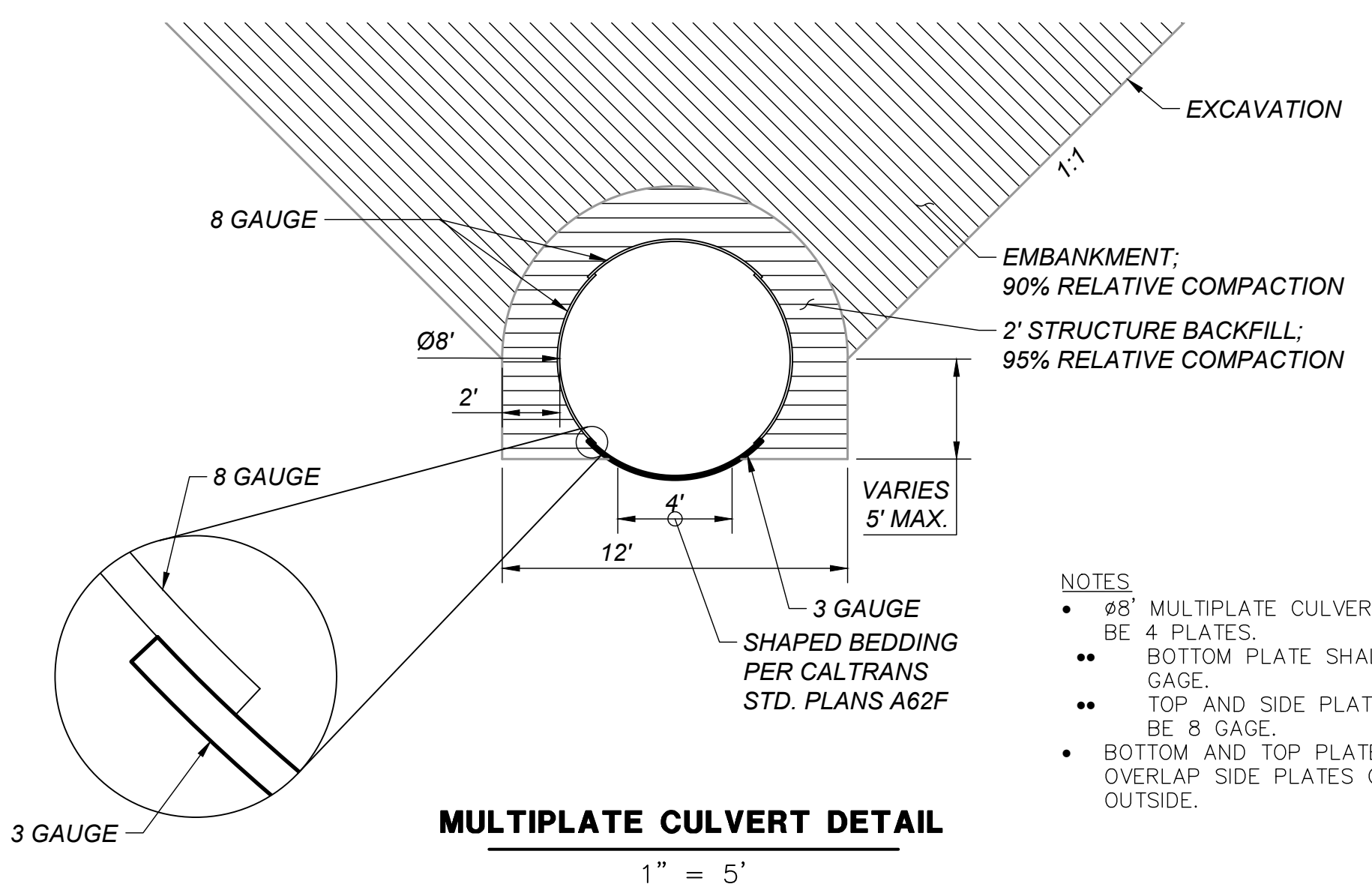
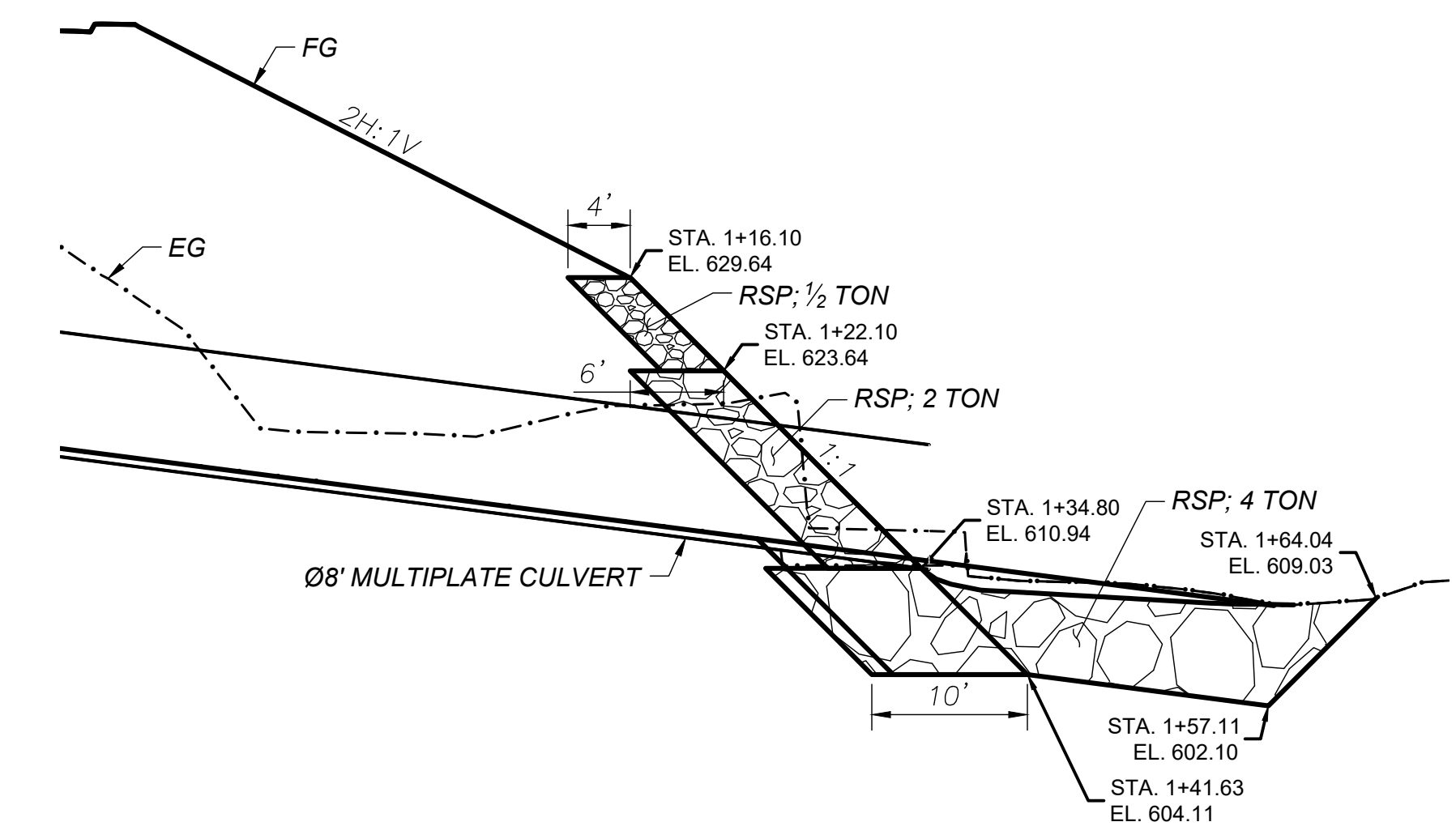
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION	<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20</b>  <b>TYPICAL SECTIONS AND DETAILS</b>	SHEET <b>5</b> OF <b>12</b>
	ROAD NO: 4A150	MILE POST: 1.20		
	PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE		
	CONTRACT NO.: 219339	PPNO: NONE		
	DRAWING FILE NAME: TGAP-G-MA-DETL.dwg	DESIGNED BY: CKH		
	PLOT DATE: 4/27/2023	REVIEWED BY: JAB		
		APPROVED BY: TRS		



- ROADWAY EXCAVATION
- STRUCTURE EXCAVATION
- EMBANKMENT
- STRUCTURE BACKFILL



**NOTE**  
• UPSTREAM AND DOWNSTREAM RSP DETAILS STATION AND ELEVATIONS ARE FROM "C" LINE



**NOTES**  
• Ø8' MULTIPLATE CULVERT SHALL BE 4 PLATES.  
• BOTTOM PLATE SHALL BE 3 GAUGE.  
• TOP AND SIDE PLATES SHALL BE 8 GAUGE.  
• BOTTOM AND TOP PLATES SHALL OVERLAP SIDE PLATES ON THE OUTSIDE.

S:\Engineering\Projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet

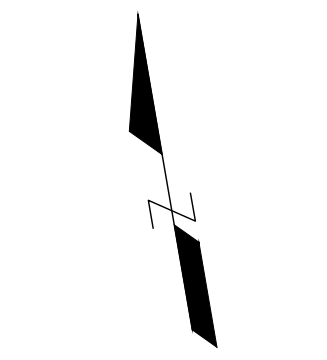
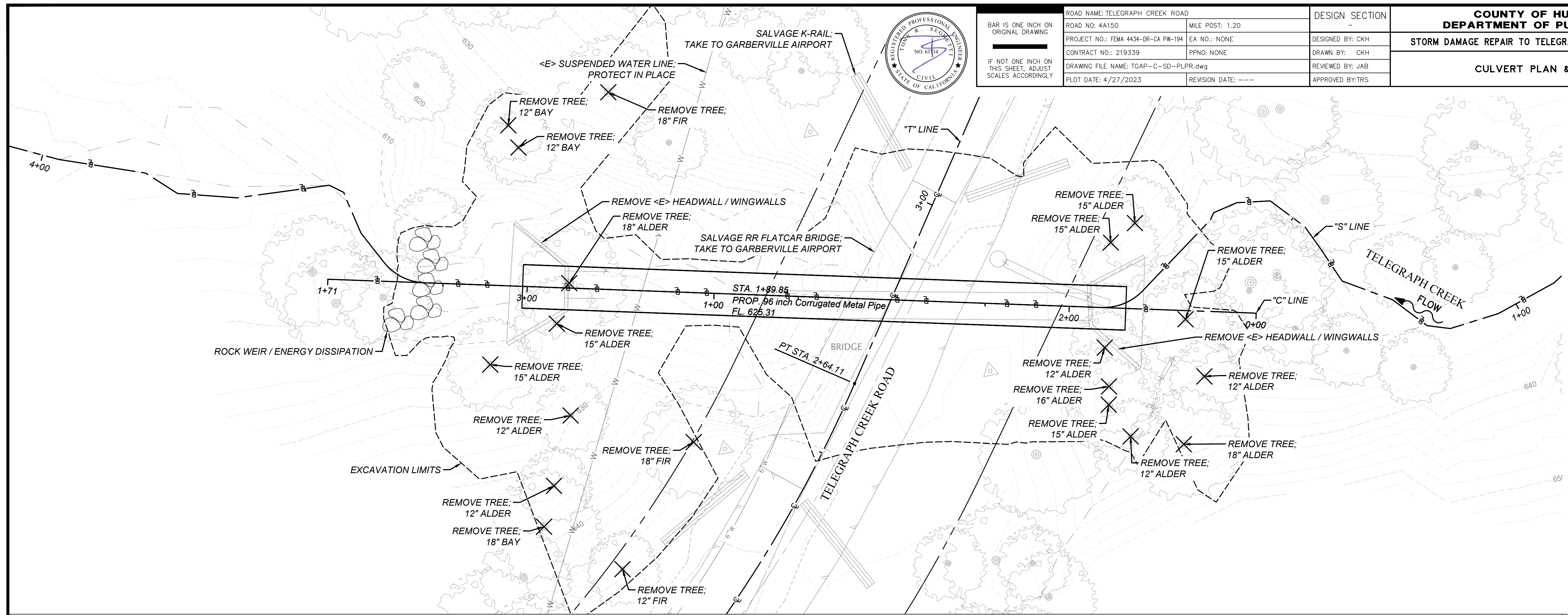




ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE
CONTRACT NO.: 219339	PPNO: NONE
DRAWING FILE NAME: TGAP-C-SD-PLPR.dwg	DESIGNED BY: CKH
PLOT DATE: 4/27/2023	REVIEWED BY: JAB
REVISION DATE: ---	APPROVED BY: TRS

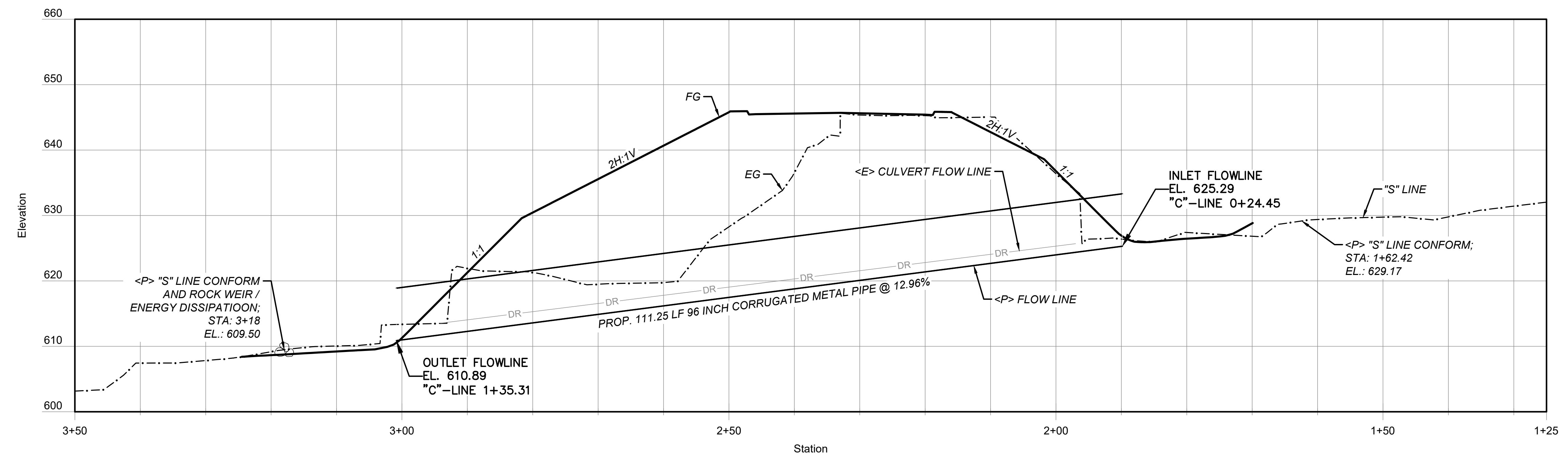
<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b>
STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20
CULVERT PLAN & PROFILE

SHEET  
**6**  
OF  
**12**



**PLAN VIEW**

SCALE: 1"=10'



**'S' LINE PROFILE VIEW**

SCALE HORIZ: 1"=10'  
SCALE VERT: 1"=10'

S:\Engineering\projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet

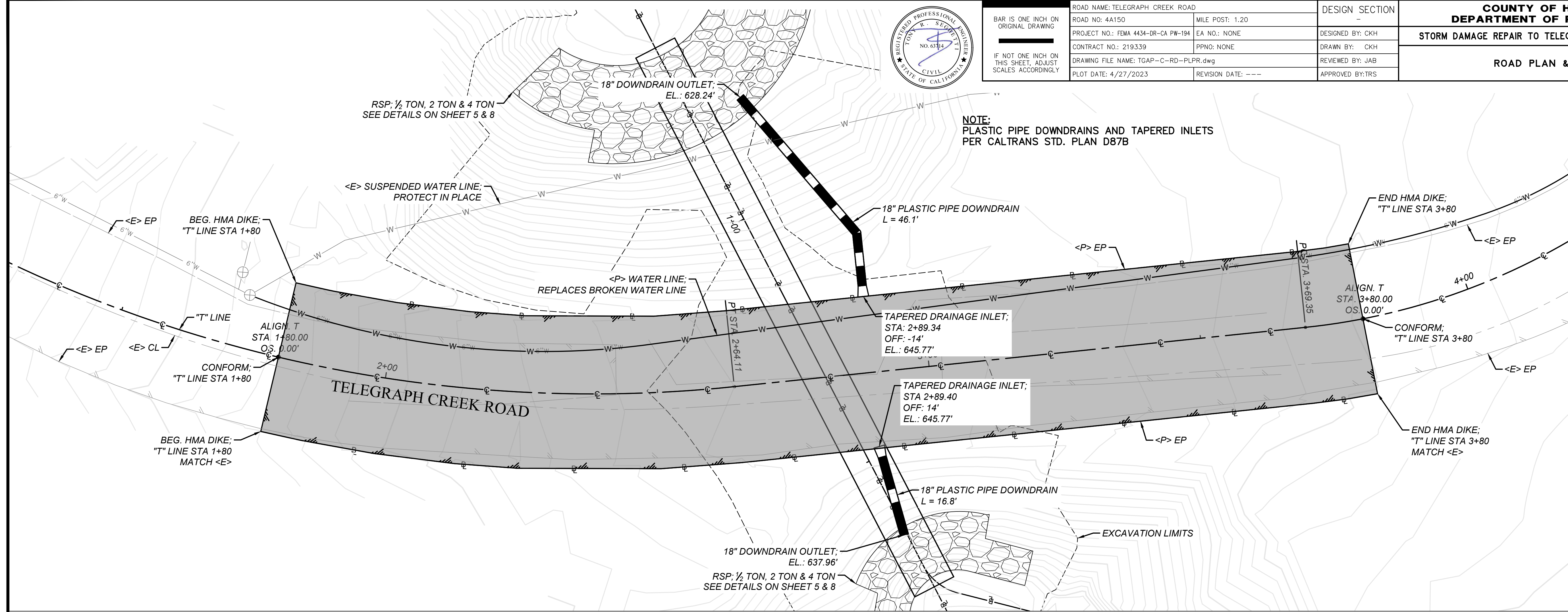




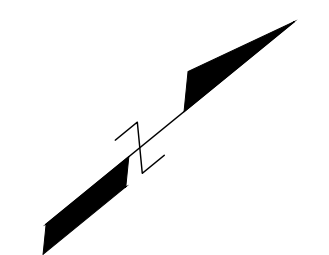
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE
CONTRACT NO.: 219339	PPNO: NONE
DRAWING FILE NAME: TGAP-C-RD-PLPR.dwg	DESIGNED BY: CKH
PLOT DATE: 4/27/2023	REVIEWED BY: JAB
REVISION DATE: ---	APPROVED BY: TRS

DESIGN SECTION
DESIGNED BY: CKH
DRAWN BY: CKH
REVIEWED BY: JAB
APPROVED BY: TRS

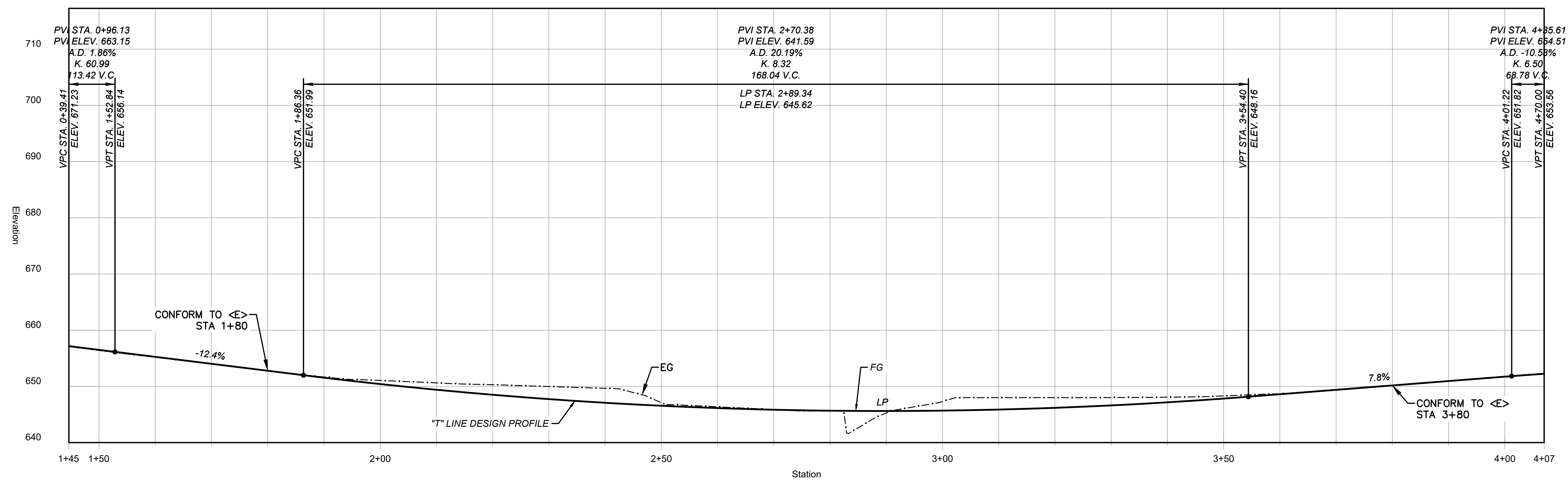


NOTE:  
PLASTIC PIPE DOWNDRAINS AND TAPERED INLETS  
PER CALTRANS STD. PLAN D87B



**PLAN VIEW**

SCALE: 1"=10'



**PROFILE VIEW**

SCALE HORIZ: 1"=10'  
SCALE VERT: 1"=10'

S:\Engineering\projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet





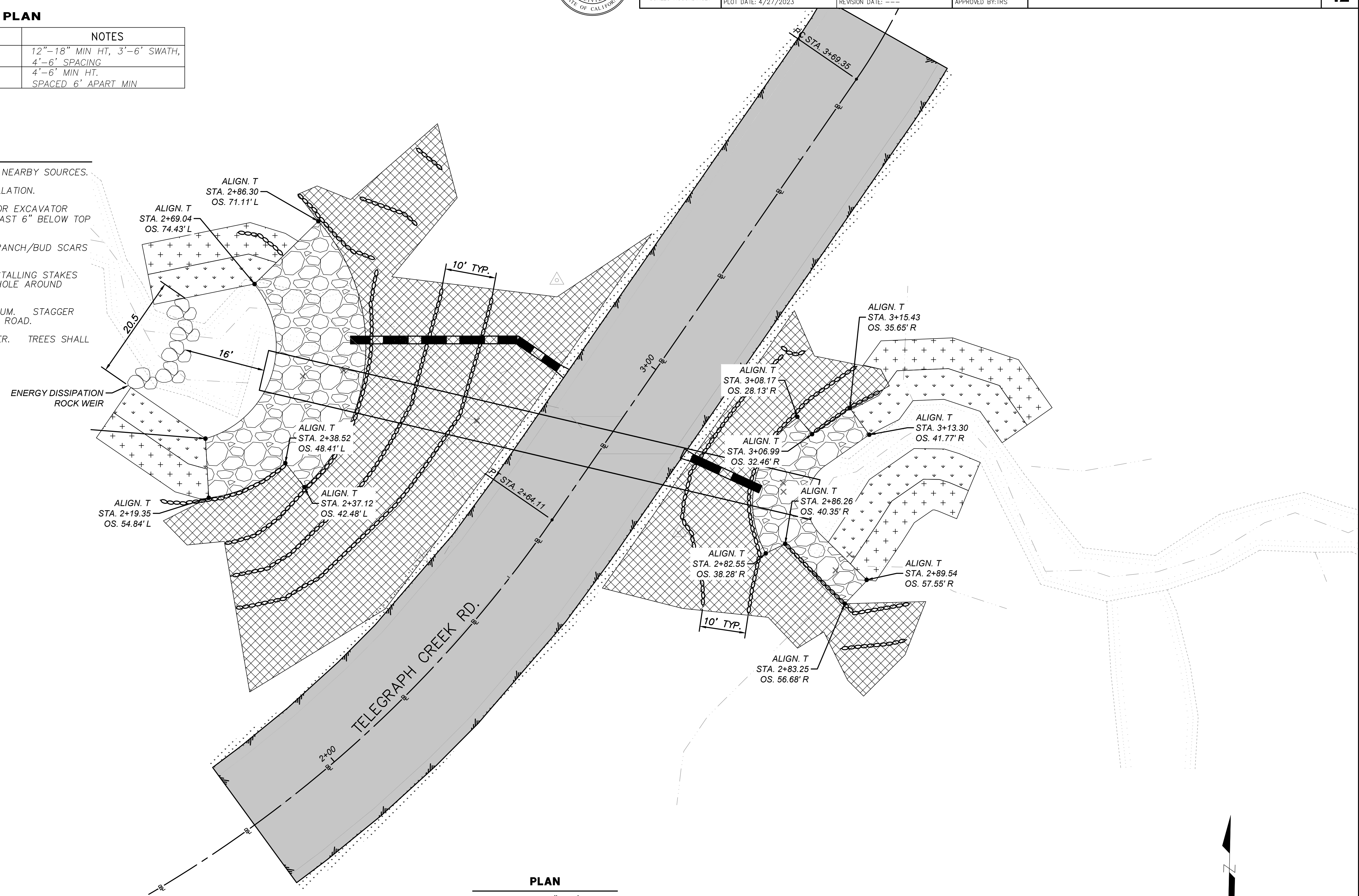
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: TELEGRAPH CREEK ROAD	DESIGN SECTION	<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20 EROSION CONTROL, RSP & REVEGETATION PLAN	SHEET <b>8</b> OF <b>12</b>	
	ROAD NO: 4A150	MILE POST: 1.20			DESIGNED BY: CKH
	PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE			DRAWN BY: CKH
	CONTRACT NO.: 219339	PPNO: NONE			REVIEWED BY: JAB
	DRAWING FILE NAME: TGAP-C-EC-PLAN.dwg	APPROVED BY: TRS			
	PLOT DATE: 4/27/2023	REVISION DATE: ---			

**REVEGETATION PLAN**

PLANT	QTY	LOCATION	NOTES
WILLOW	60	ALONG CREEK BANKS	12"-18" MIN HT, 3'-6' SWATH, 4'-6' SPACING
ALDER	24	TBD	4'-6' MIN HT, SPACED 6' APART MIN

**REVEGETATION NOTES**

- HARVEST PLANTING STAKES FROM ON-SITE OR NEARBY SOURCES.
- SOAK STAKES FOR 5-7 DAYS PRIOR TO INSTALLATION.
- PRE-DRIVE HOLES FOR STAKES USING AUGER OR EXCAVATOR MOUNTED STINGER. HOLE MUST EXTEND AT LEAST 6" BELOW TOP OF WATER TABLE.
- PLACE STAKE IN PREPARED HOLE WITH 2-5 BRANCH/BUD SCARS ABOVE THE GROUND.
- WATER PLANTING AREA THOROUGHLY AFTER INSTALLING STAKES AND ENSURE THERE ARE NO AIR POCKETS IN HOLE AROUND WILLOW STAKES.
- PLACE WILLOW STAKES 6 FT ON CENTER MAXIMUM. STAGGER WILLOW STAKE ROWS BY 5FT PARALLEL TO THE ROAD.
- REPLACE RED ALDER TREES AT 6 FT ON CENTER. TREES SHALL HAVE A MINIMUM HEIGHT OF 4 FT.



**LEGEND**

- FIBER ROLL
- RECP BLANKET
- RSP AREA
- ALDER PLANTING AREA
- WILLOW PLANTING AREA

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

S:\Engineering\projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet



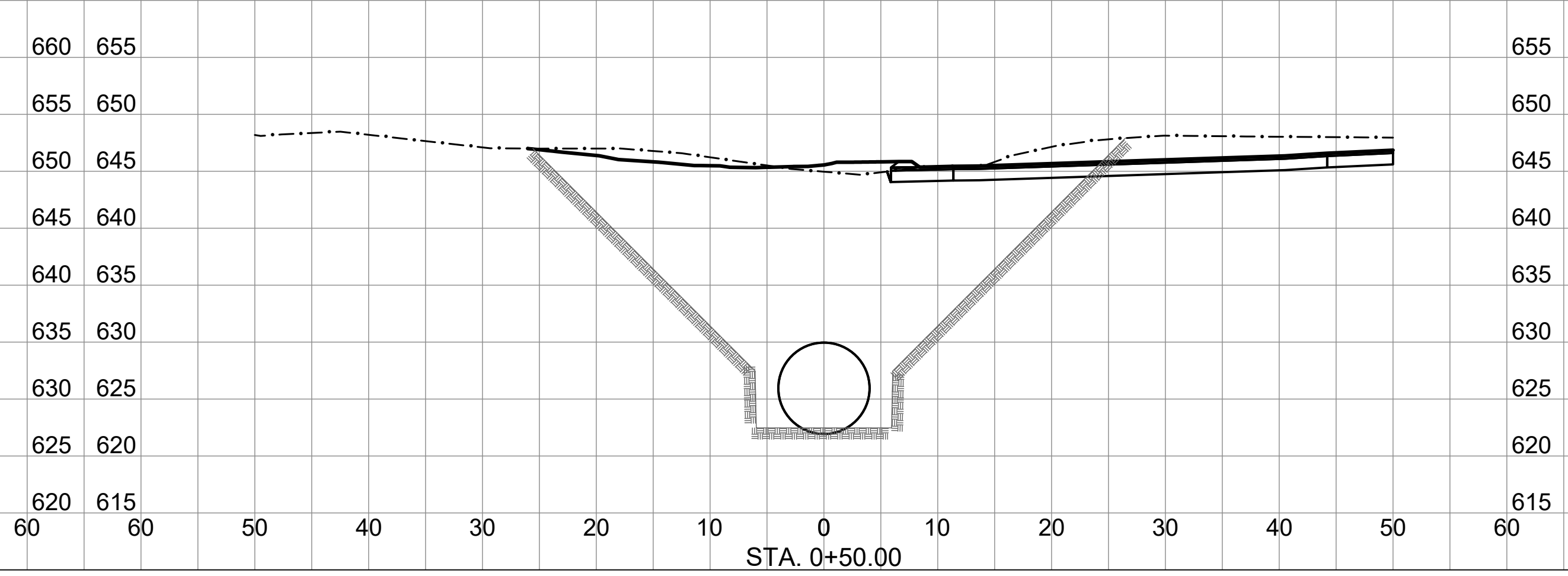
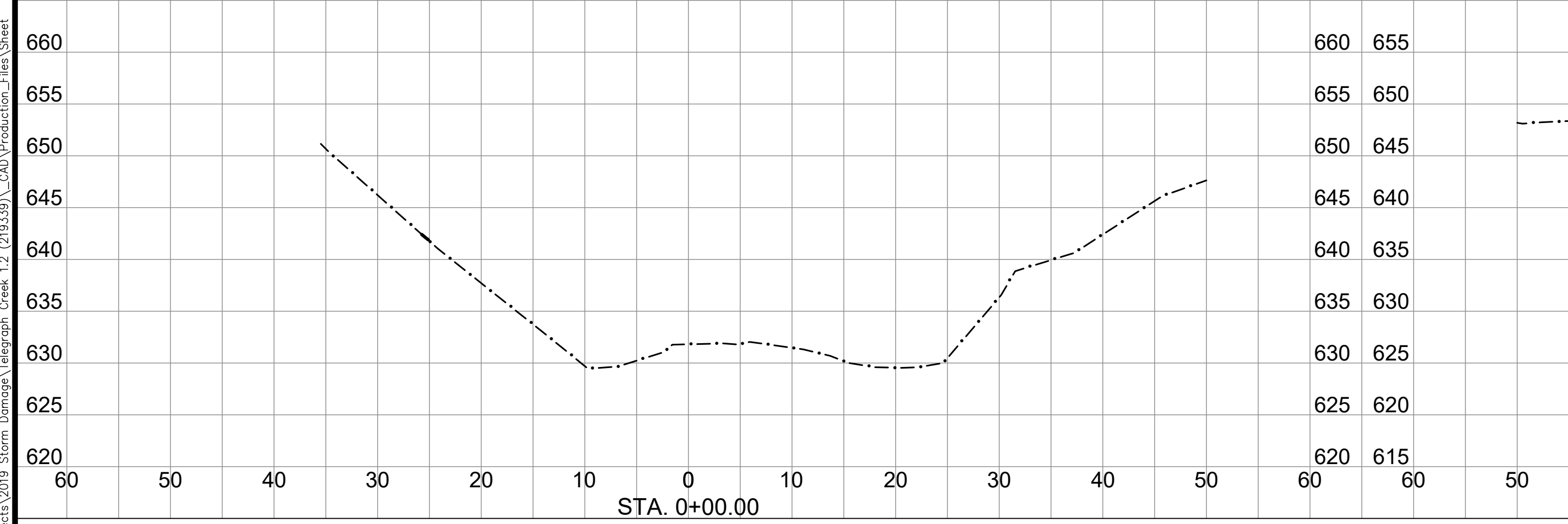
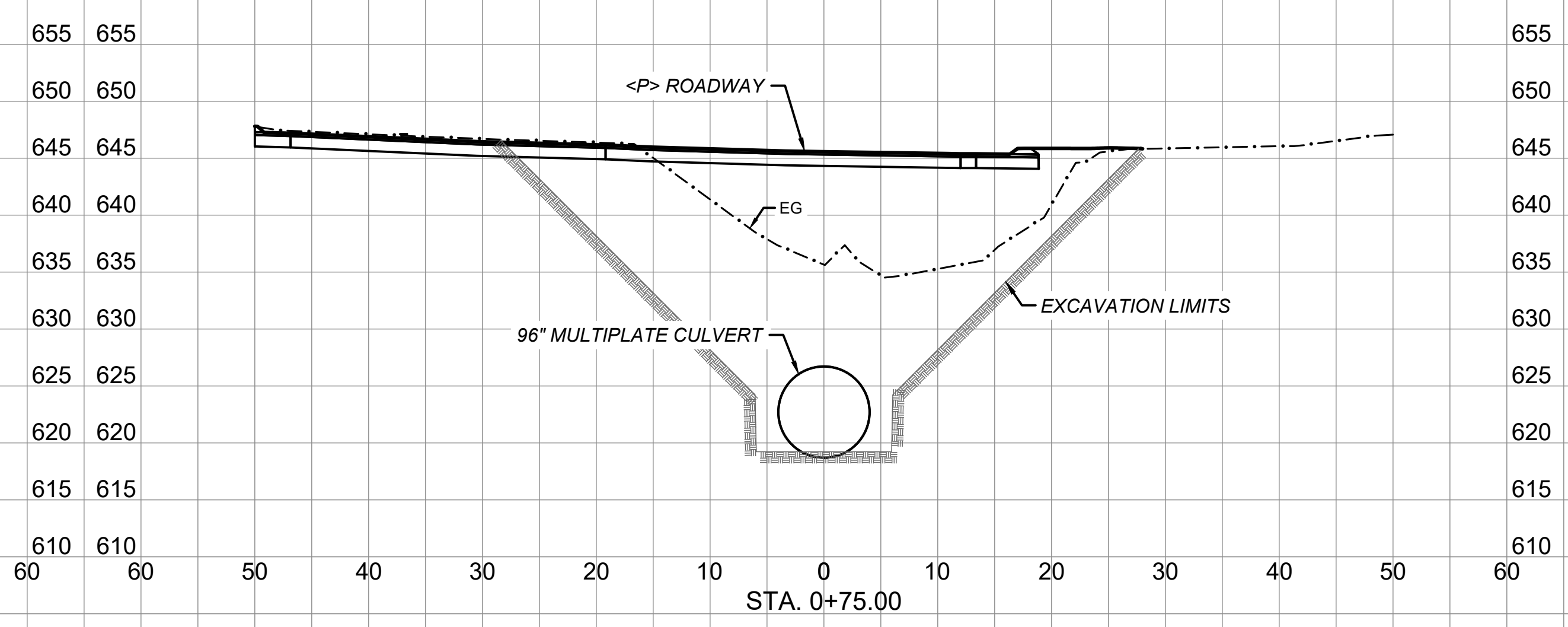
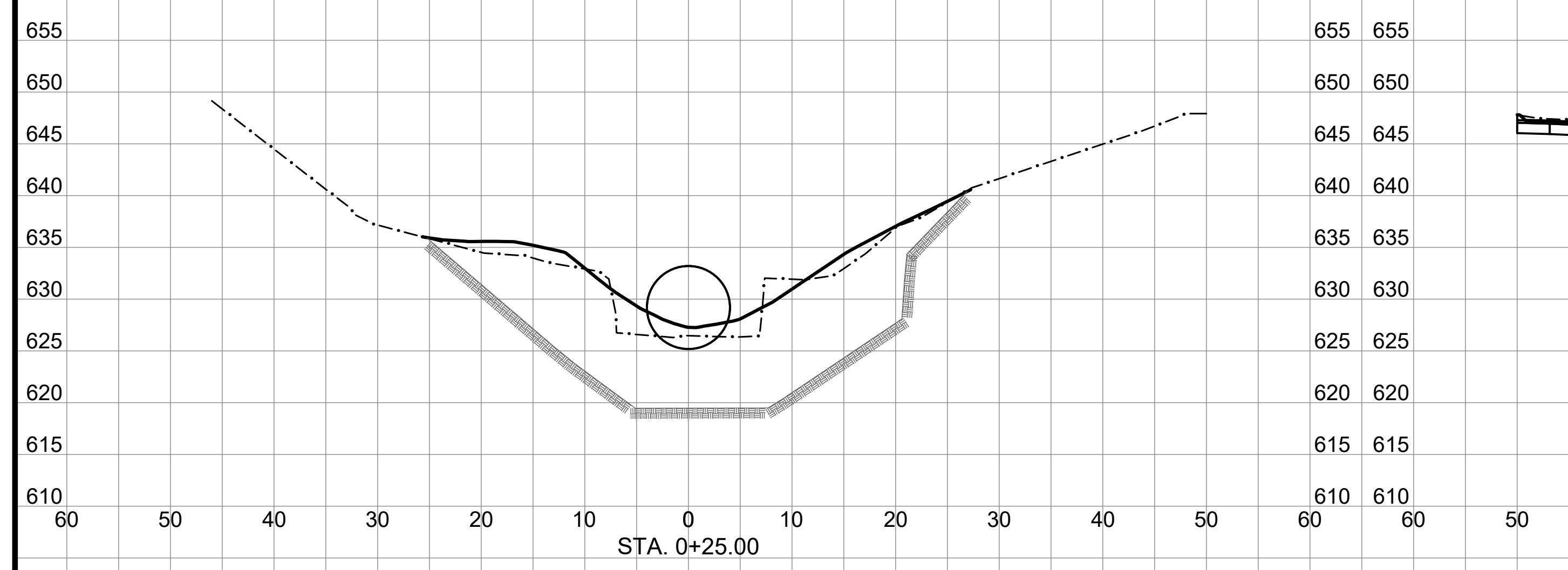
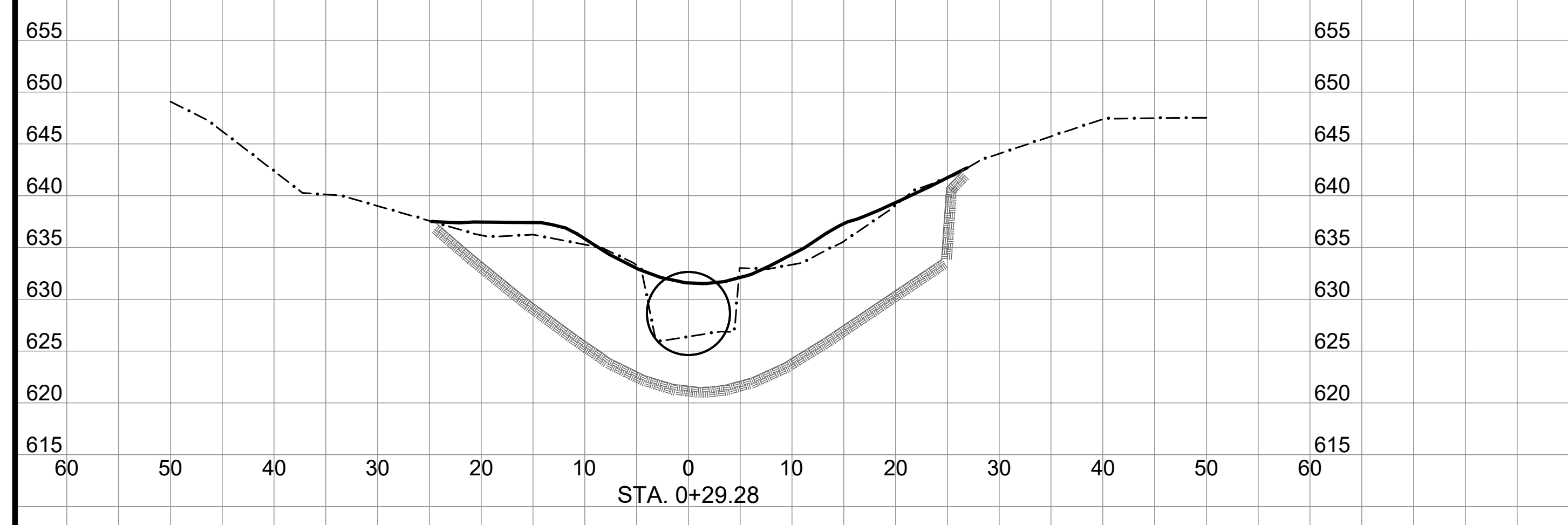


BAR IS ONE INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: TELEGRAPH CREEK ROAD		DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20	-
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE	DESIGNED BY: CKH
CONTRACT NO.: 219339	PPNO: NONE	DRAWN BY: CKH
DRAWING FILE NAME: TGAP-C-GN-SECT.dwg		REVIEWED BY: JAB
PLOT DATE: 4/27/2023	REVISION DATE: 4/27/2023	APPROVED BY: TRS

<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b>
<b>STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20</b>
<b>STREAM CROSS SECTIONS</b>

SHEET  
**9**  
 OF  
**12**



**SECTION VIEWS**  
 SCALE HORIZ: 1"=10'  
 SCALE VERT: 1"=10'

S:\Engineering\Projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet



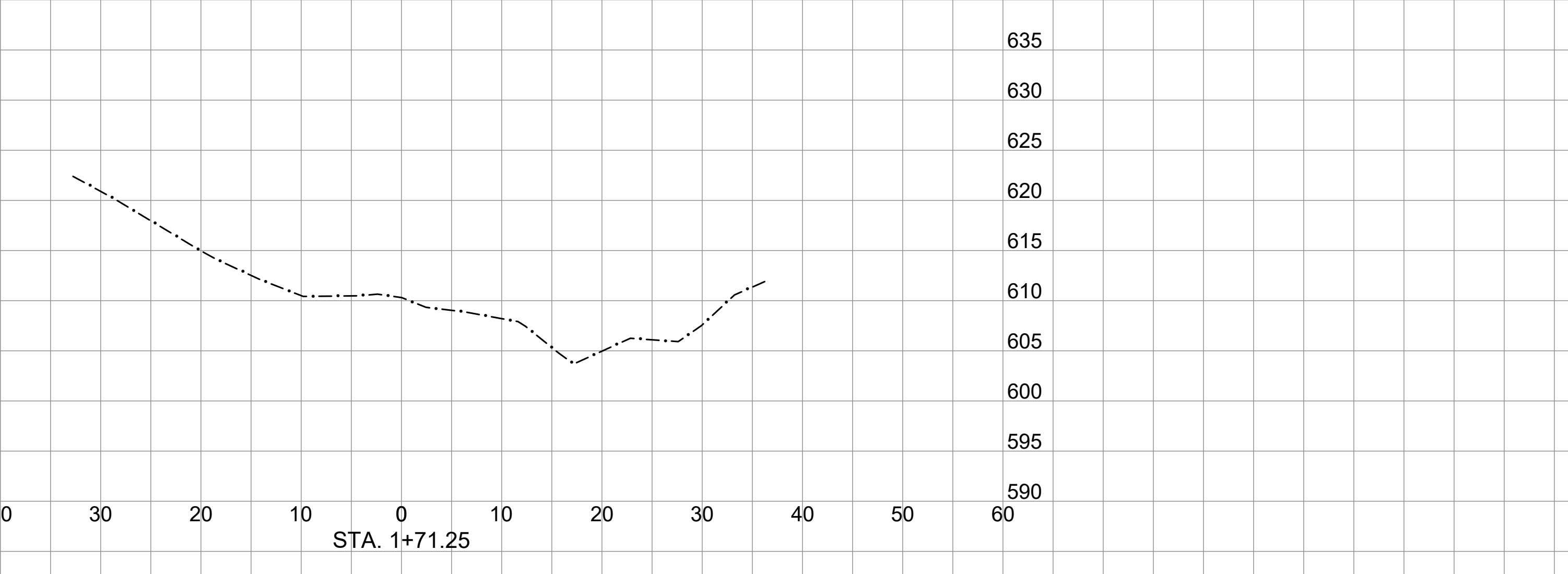
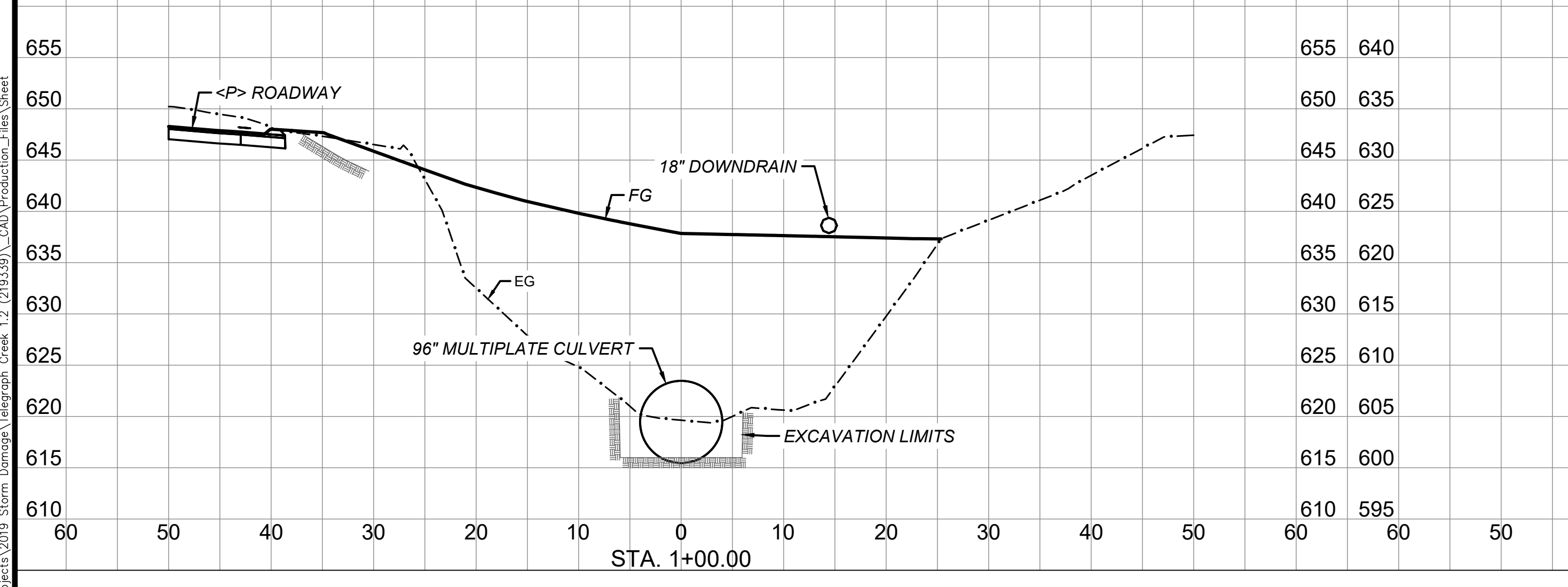
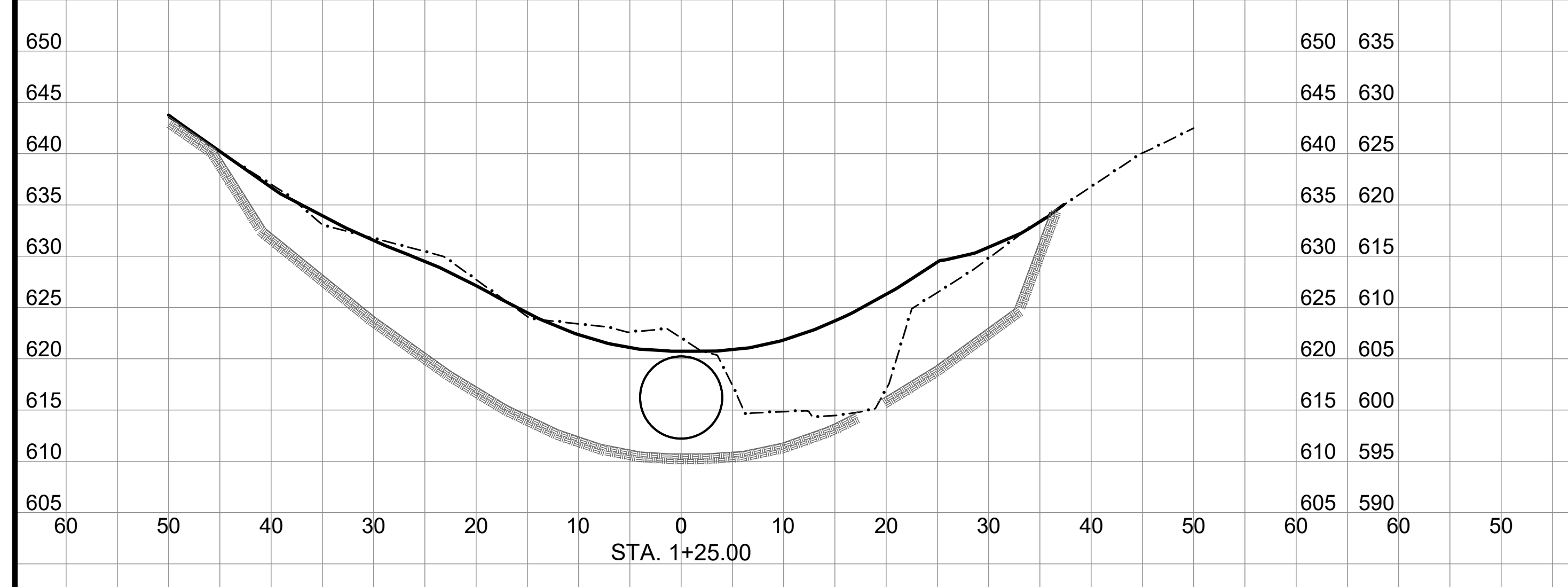
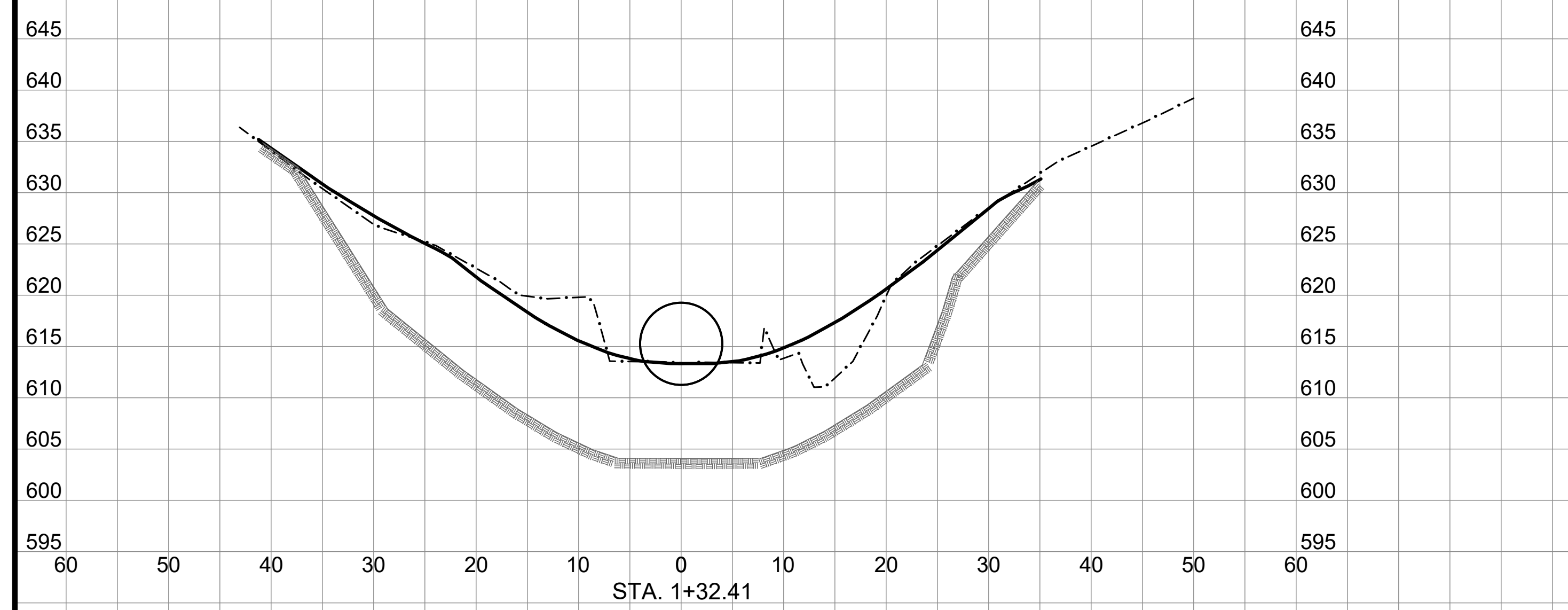


BAR IS ONE INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: TELEGRAPH CREEK ROAD		DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20	-
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE	DESIGNED BY: CKH
CONTRACT NO.: 219339	PPNO: NONE	DRAWN BY: CKH
DRAWING FILE NAME: TGAP-C-GN-SECT.dwg		REVIEWED BY: JAB
PLOT DATE: 4/27/2023	REVISION DATE: 4/27/2023	APPROVED BY: TRS

<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b>
<b>STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20</b>
<b>STREAM CROSS SECTIONS</b>

SHEET  
**10**  
 OF  
**12**



**SECTION VIEWS**  
 SCALE HORIZ: 1"=10'  
 SCALE VERT: 1"=10'

S:\Engineering\Projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet

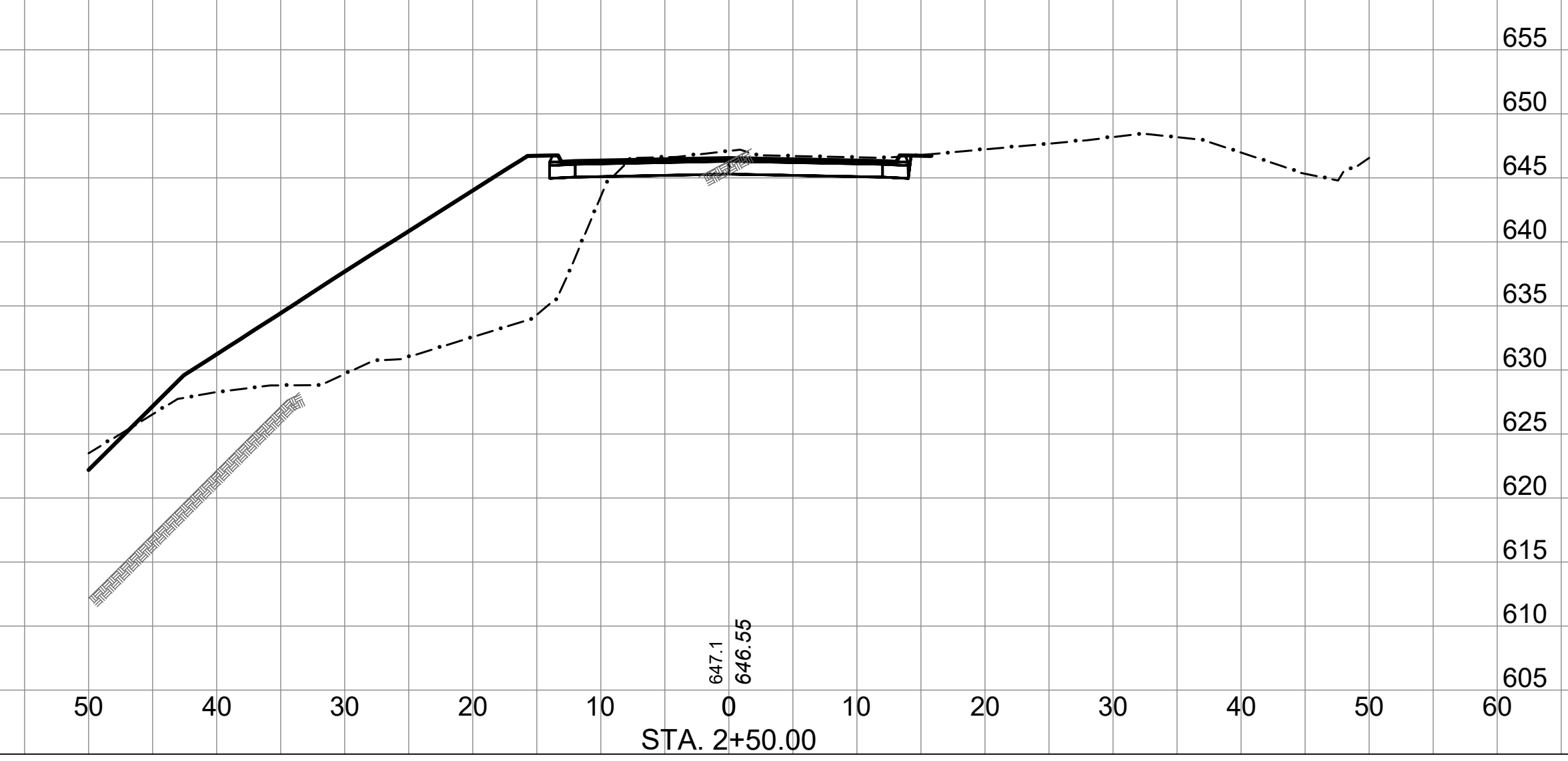
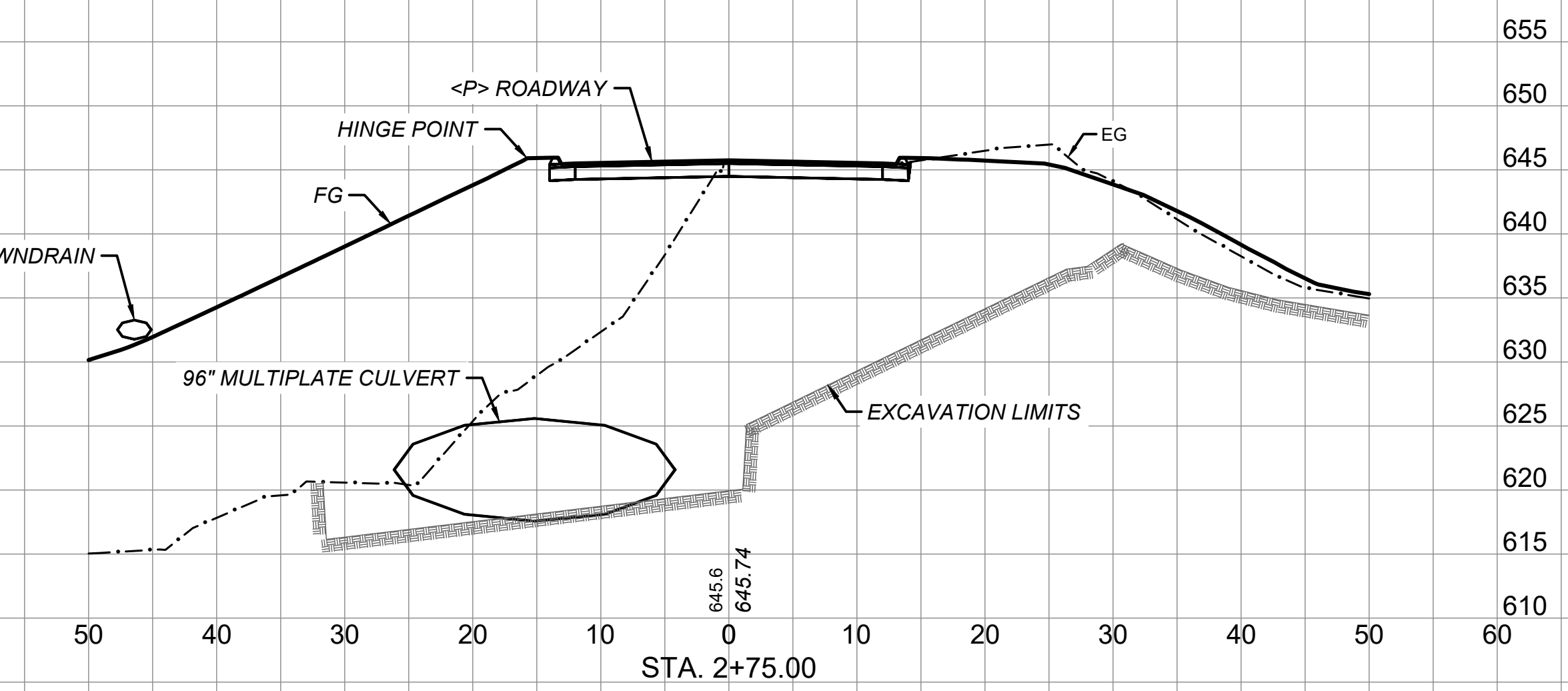
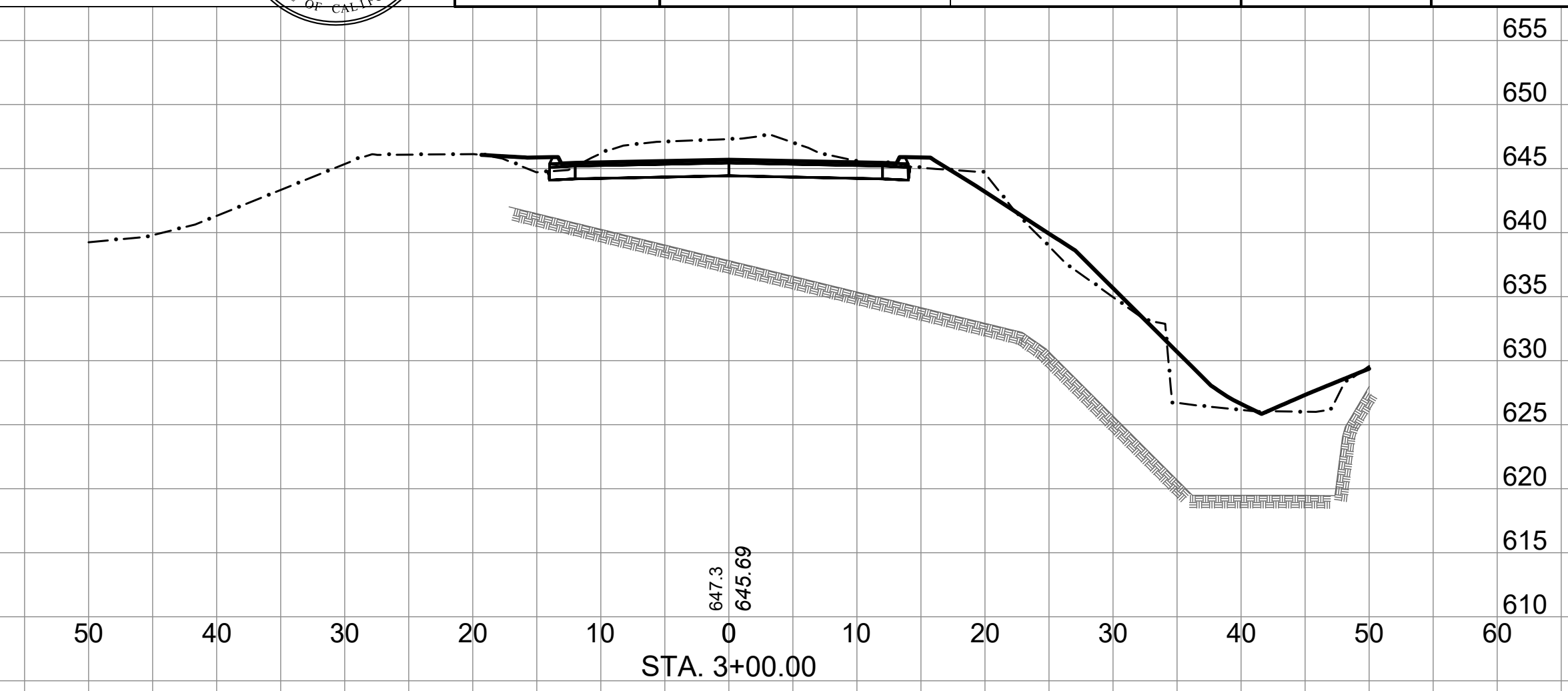
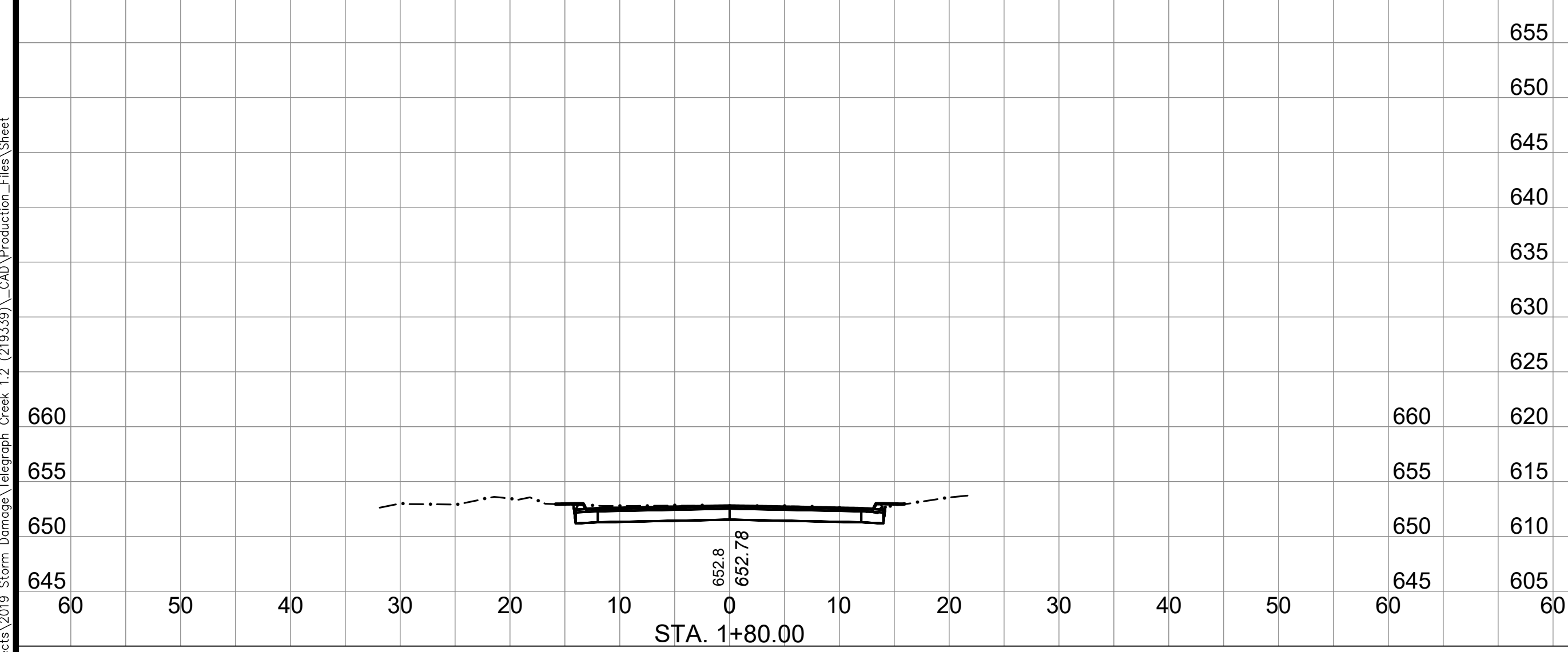
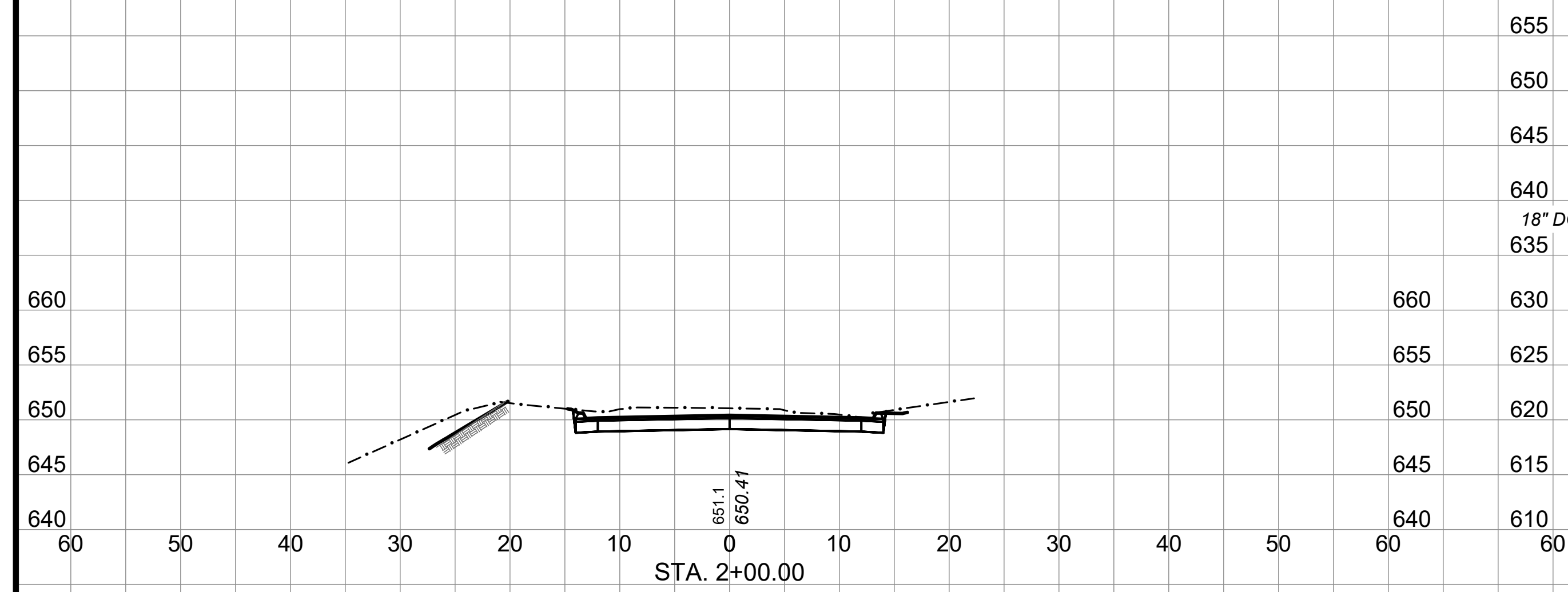
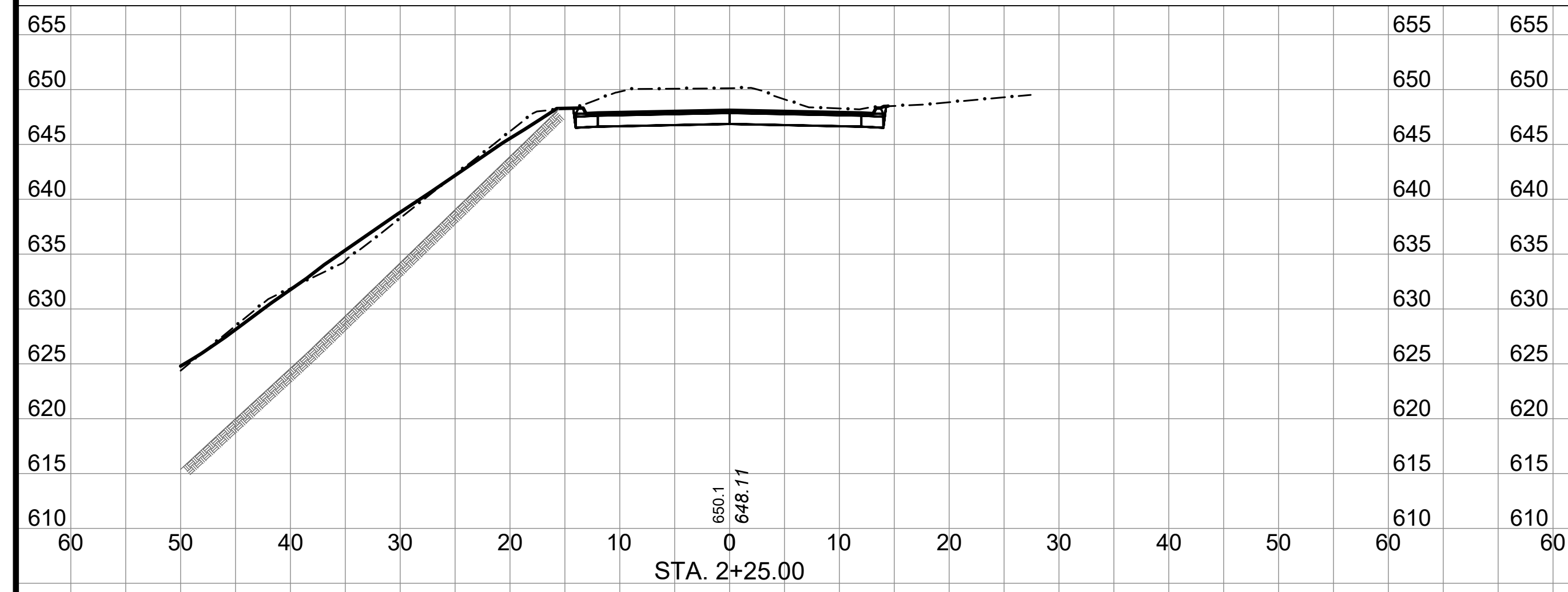




BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: TELEGRAPH CREEK ROAD		DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20	-
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE	DESIGNED BY: CKH
CONTRACT NO.: 219339	PPNO: NONE	DRAWN BY: CKH
DRAWING FILE NAME: TGAP-C-GN-SECT.dwg		REVIEWED BY: JAB
PLOT DATE: 4/27/2023	REVISION DATE: 4/27/2023	APPROVED BY: TRS

DESIGN SECTION
DESIGNED BY: CKH
DRAWN BY: CKH
REVIEWED BY: JAB
APPROVED BY: TRS



**SECTION VIEWS**  
SCALE HORIZ: 1"=10'  
SCALE VERT: 1"=10'

S:\Engineering\Projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\Sheet





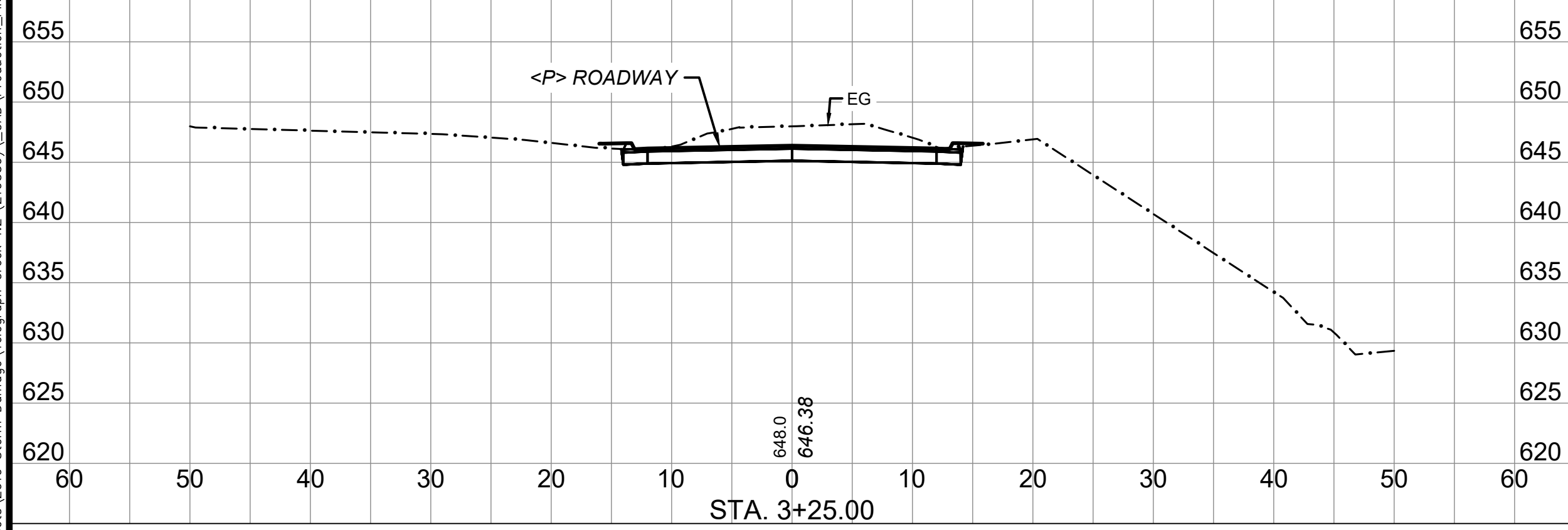
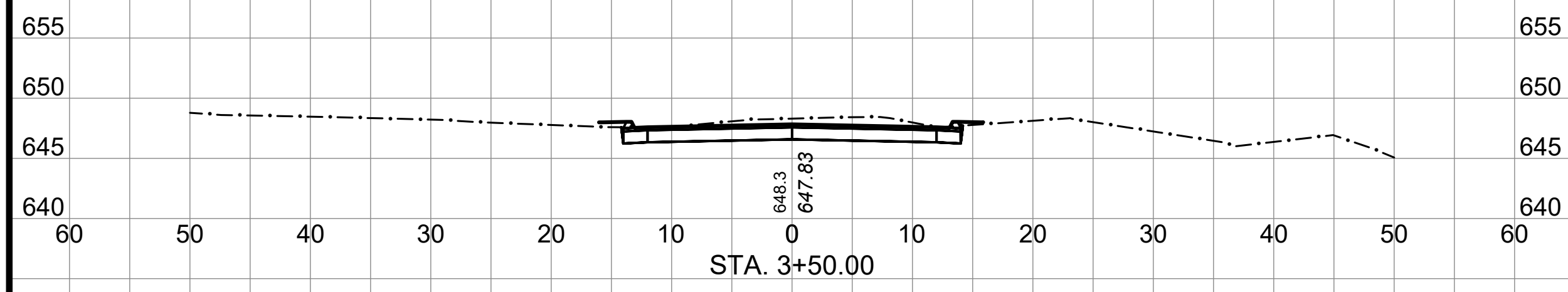
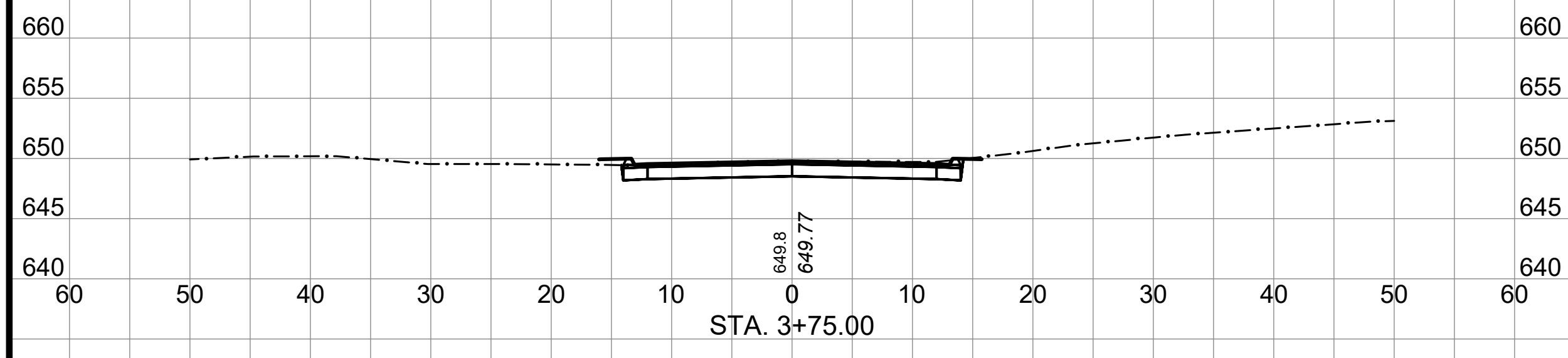
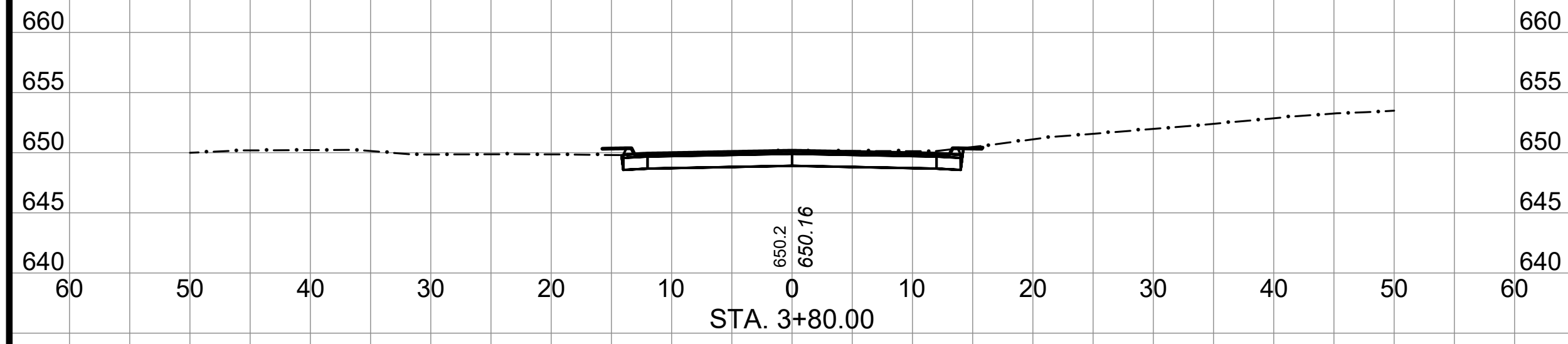
BAR IS ONE INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: TELEGRAPH CREEK ROAD		DESIGN SECTION
ROAD NO: 4A150	MILE POST: 1.20	-
PROJECT NO.: FEMA 4434-DR-CA PW-194	EA NO.: NONE	DESIGNED BY: CKH
CONTRACT NO.: 219339	PPNO: NONE	DRAWN BY: CKH
DRAWING FILE NAME: TGAP-C-GN-SECT.dwg		REVIEWED BY: JAB
PLOT DATE: 4/27/2023	REVISION DATE: 4/27/2023	APPROVED BY: TRS

DESIGN SECTION
-
DESIGNED BY: CKH
DRAWN BY: CKH
REVIEWED BY: JAB
APPROVED BY: TRS

**COUNTY OF HUMBOLDT**  
**DEPARTMENT OF PUBLIC WORKS**  
 STORM DAMAGE REPAIR TO TELEGRAPH CREEK ROAD PM 1.20  
 ROADWAY CROSS SECTIONS

SHEET  
**12**  
 OF  
**12**



**SECTION VIEWS**  
 SCALE HORIZ: 1"=10'  
 SCALE VERT: 1"=10'

S:\Engineering\Projects\2019 Storm Damage\Telegraph Creek 1.2 (219339)\\_CAD\Production\_Files\_Sheet