



GHD Inc.  
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T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com



BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: 4D010	ENGINEERING	STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
	MILE POST: 0.50	DESIGNED BY: C.PROVO	COVER SHEET SHEET INDEX AND MAPS
	PROJECT NO.: FEMA 4301-CA-DR PW-909	DRAWN BY: C.PROVO	
	CONTRACT NO.: 217387	REVIEWED BY: J. WOLF	
	PLOT DATE: 05/18/2022	APPROVED BY: J. WOLF	

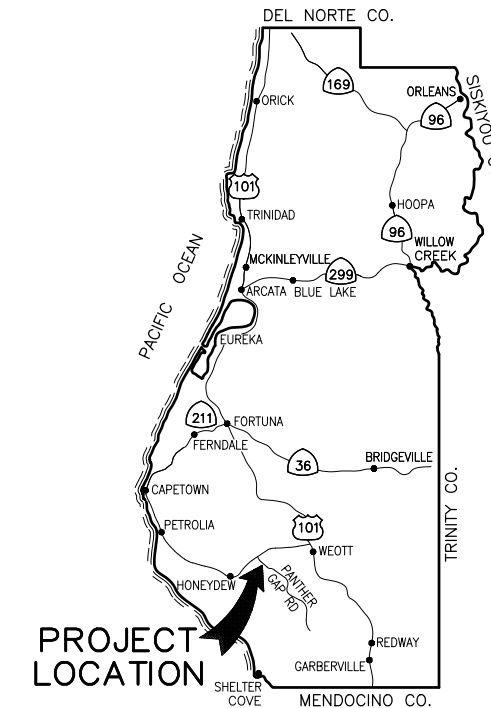
SHEET 1 OF 49

# COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

## PROJECT PLANS FOR CONSTRUCTION OF STORM DAMAGE REPAIRS PANTHER GAP RD AT P.M. 0.50

### PROJECT NO. FEMA 4301-CA-DR PW-909 CONTRACT NO. 217387

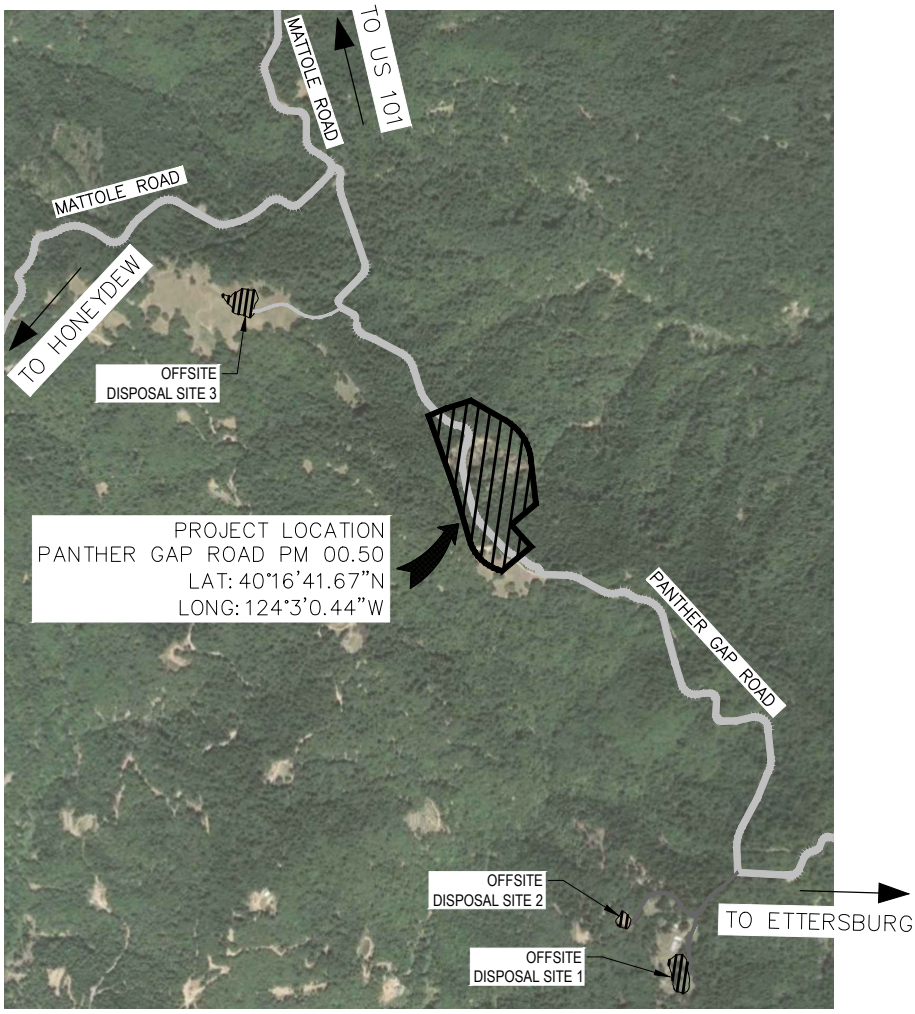
TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION 2018 STANDARD PLANS, 2018 STANDARD SPECIFICATIONS, AND LATEST REVISED STANDARD PLANS AND SPECIFICATIONS.



**LOCATION MAP**  
NOT TO SCALE

**ABBREVIATIONS**  
(TO SUPPLEMENT CT STD PLANS A3A, A3B & A3C)

- APN ASSESSORS PARCEL NUMBER
- CL CENTERLINE
- CT CALTRANS
- (E) EXISTING
- EL ELEVATION
- K K-VALUE
- LT LEFT
- OMP OPEN METAL PIPE
- PVI POINT OF VERTICAL INTERSECTION
- RT RIGHT



**VICINITY MAP**  
NOT TO SCALE



**RECOMMENDED**

*Josh Wolf*  
JOSH WOLF  
RCE 70358  
CIVIL ENGINEER  
GHD INC.

5/18/2022  
DATE



**APPROVED**

*Tony R. Seghetti*  
TONY R. SEGHETTI  
RCE 63714  
DEPUTY DIRECTOR OF ENGINEERING  
COUNTY OF HUMBOLDT

5/18/22  
DATE

**SHEET LIST TABLE**

SHEET	SHEET TITLE
1	COVER SHEET, SHEET INDEX, AND MAPS
2	STAGING/STOCKPILE LOCATIONS AND QUANTITIES
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49	DISPOSAL SITE 3 EROSION CONTROL PLAN

**NOTES**

1. THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.
2. STANDARD PLAN LIST APPLICABLE TO THIS CONTRACT INCLUDED IN THE SPECIAL PROVISIONS.
3. GEOTECHNICAL MEMORANDUM: CRAWFORD AND ASSOCIATES, JUNE 2022.



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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50</b> <b>STAGING/STOCKPILE LOCATIONS AND QUANTITIES</b>
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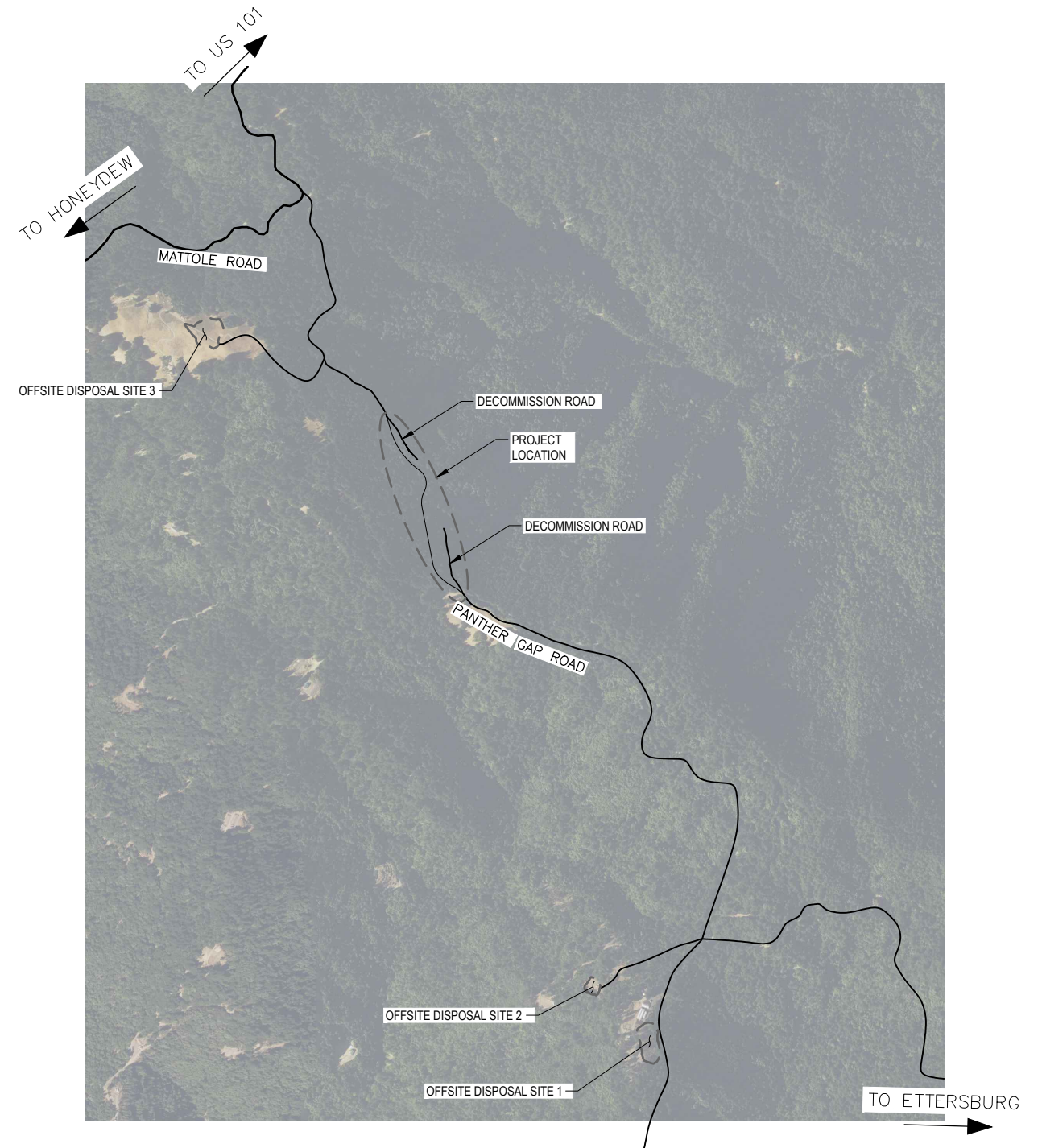
SHEET  
2  
OF  
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**PROJECT QUANTITY SUMMARY**

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QTY
1	120090	Construction Area Signs	LS	1
2	120100	Traffic Control System	LS	1
3	130100	Job Site Management	LS	1
4	130300	Prepare Storm Water Pollution Prevention Plan	LS	1
5	130310	Rain Event Action Plan	EA	8
6	130320	Storm Water Sampling and Analysis	EA	4
7	130330	Storm Water Annual Report	EA	1
8	130610	Temporary Check Dam	LF	222
9	130680	Temporary Silt Fence	LF	1685
10	170103	Clearing and Grubbing (LS)	LS	1
11	190101	Roadway Excavation	CY	57330
12	198250	Geosynthetic Reinforcement	SQYD	2110
13	210252	Bonded Fiber Matrix (SQFT)	SQFT	256855
14	260303A	Aggregate Base (3/4" Minus Crushed Rock)	CY	331
15	260303B	Aggregate Base (1.5" Minus Crushed Rock)	CY	685
16	641101A	6" Plastic Pipe	LF	366
17	641107A	18" Plastic Pipe (Heat-Fused HDPE)	LF	161
18	680903	6" Non-Perforated Plastic Pipe	LF	50
19	682022A	Permeable Material (Subdrain)	CY	196
20	692101	Tapered Inlet	EA	6
21	692301	Anchor Assembly	EA	43
22	700638	36" Corrugated Steel Pipe Inlet (.079" Thick)	LF	12
23	710130	Remove Culvert (EA)	EA	55
24	723070	Rock Slope Protection (150lb, Class III, Method B) (CY)	CY	45
25	723080	Rock Slope Protection (60lb, Class II, Method B) (CY)	CY	20
26	801368	18" Metal Pipe Gate	EA	1
27	810180	Delineator (Class 2)	EA	42
28	999990	Mobilization	LS	1

**STOCKPILE NOTES:**

- STOCKPILE SHALL HAVE FIBER ROLL, HAY BALES, SILT FENCE, OR OTHER APPROVED LINEAR BARRIER AROUND STOCKPILE.
- STOCKPILE SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN T53).
- IF STOCKPILE AREA IS IN A TURNOUT - THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
- IF TEMPORARY CULVERTS ARE INSTALLED IN THE DITCH LINE - DITCH LINE SHALL BE RECONSTRUCTED AT END OF PROJECT.
- STOCKPILE LOCATIONS HAVE BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT.
- ALTERNATE STOCKPILE AND STAGING SITES SHALL BE PRE-APPROVED THROUGH PUBLIC WORKS WITH WRITTEN APPROVAL.



**DISPOSAL SITE MAP**  
NOT TO SCALE



OFFSITE DISPOSAL SITE	MAXIMUM FILL VOLUME* (CY)
1	21,200
2	4,600
3	22,800
TOTAL	48,600

\* ACTUAL UTILIZED VOLUME MAY VARY

**SURVEY CONTROL NOTES**

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR AN EMERGENCY STORM DAMAGE REPAIR SITE AT POST MILE 0.50 OF PANTHER GAP ROAD ROAD. THIS SURVEY REFLECTS CONDITIONS AT THE TIME OF SURVEY; FIELD WORK ON CONFORM SECTIONS ADJACENT TO SLIDE WAS PERFORMED BY POINTS WEST SURVEYING CO. USING CONVENTIONAL SURVEY TECHNIQUES IN AUGUST 2019. LIDAR FLIGHT BY GEOTERRA WAS MADE AUGUST 9, 2019. SUPPLEMENTAL FIELD SURVEY OF THE SOUTHERN TERMINUS OF THE PROJECT WAS PERFORMED BY POINTS WEST SURVEYING CO. USING CONVENTIONAL SURVEY TECHNIQUES IN FEBRUARY 2020.
2. COORDINATES FOR THIS SURVEY ARE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 1, NAD 83 (2011), EPOCH 2010.0 BASED ON A STATIC GPS CONTROL SURVEY USING THE NGS OPUS POST PROCESSING SOFTWARE. THE CONTROL POINT IDENTIFIED AS POINT 50 HAS A MAPPING ANGLE IS 1 DEGREE 20 MINUTES 21 SECONDS; ROTATE BEARINGS HEREON COUNTERCLOCKWISE BY THIS ANGLE TO OBTAIN "TRUE" OR GEODETIC BEARINGS. GRID DISTANCES SHOWN SHOULD BE DIVIDED BY THE COMBINED SCALE FACTOR OF 0.99981479 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR ARE TAKEN AT CONTROL POINT NUMBER 50, A 5/8 INCH REBAR AND PLASTIC PLUG "PWS CONTROL". ELEVATIONS ARE NAVD 88 DATUM BASED ON OPUS SOLUTION UTILIZING THE GEOID 12B MODEL. AN ELEVATION OF 2760.36 FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 50.

**GENERAL NOTES**

1. CONTRACTOR MUST COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING SURVEY MONUMENTS, WHETHER OR NOT SURVEY MONUMENTS ARE SHOWN IN THESE PLANS.
2. IF SURVEY MONUMENT IS DAMAGED BY CONTRACTORS OPERATIONS, CONTRACTOR SHALL REPLACE SURVEY MONUMENT AT CONTRACTORS EXPENSE.
3. THE RIGHT OF WAY SHOWN IS BASED ON THE ASSUMED PRE-FAILURE CENTERLINE OF PANTHER GAP ROAD ALIGNMENT AND A PRESCRIPTIVE RIGHT OF WAY WIDTH OF 40 FEET. THIS DETERMINATION WAS MADE BY THE COUNTY RIGHT OF WAY DEPARTMENT.

**LEGEND**



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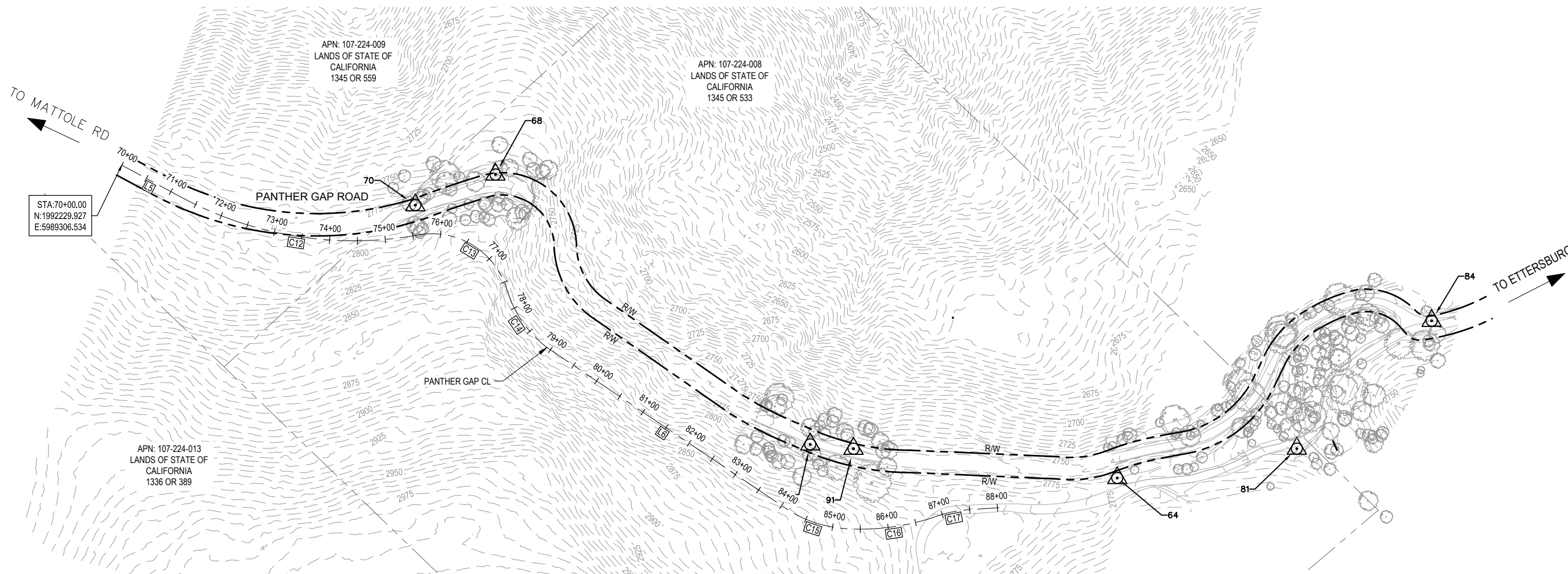
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
<b>STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50</b>
<b>SURVEY CONTROL</b>

SHEET 3 OF 49

Segment	Type	Length	Radius	Direction	Start Station	End Station
L5	LINE	122.74	-	S16° 30' 55.05"E	70+00.00	71+22.74
C12	CURVE	436.95	650.00		71+22.74	75+59.68
C13	CURVE	204.11	140.00		75+59.68	77+63.79
C14	CURVE	127.42	207.00		77+63.79	78+91.21
L6	LINE	517.14	-	S10° 49' 18.66"E	78+91.21	84+08.35
C15	CURVE	117.37	219.00		84+08.35	85+25.72
C16	CURVE	166.19	421.00		85+25.72	86+91.90
C17	CURVE	54.13	200.00		86+91.90	87+46.04
L7	LINE	57.06	-	S48° 37' 19.11"E	87+46.04	88+03.10

POINT#	EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION
64	5990165.80	1990567.34	2774.15	CP_R&C
65	5989820.69	1991000.68	2767.24	CP_SPK
68	5989766.58	1991742.47	2780.64	CP_SPK
70	5989626.43	1991805.74	2778.39	CP_60D
81	5990429.91	1990375.68	2786.06	CP_SPK
84	5990763.02	1990365.46	2787.85	CP_SPK
91	5989869.84	1990940.20	2765.49	CP_60D



**SURVEY CONTROL**





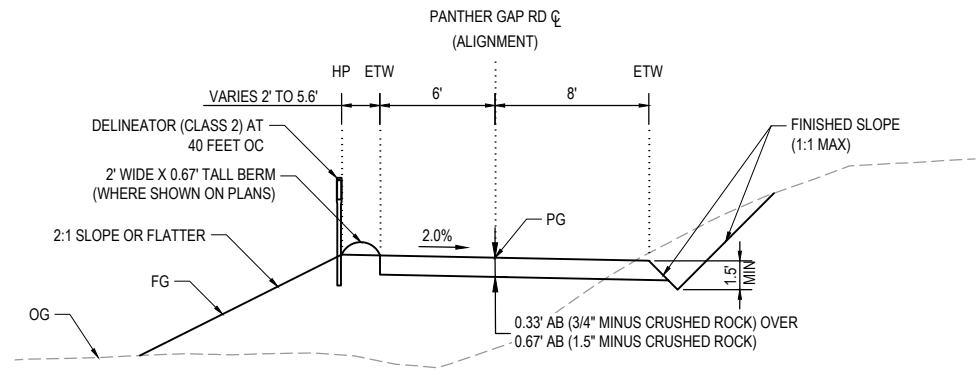
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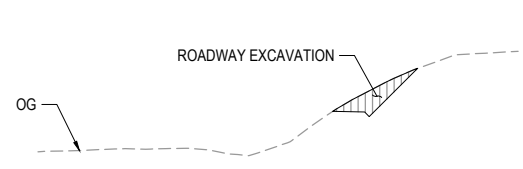
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
TYPICAL SECTIONS - 1 OF 4

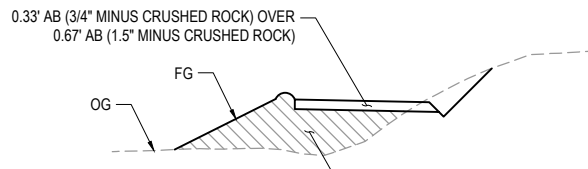
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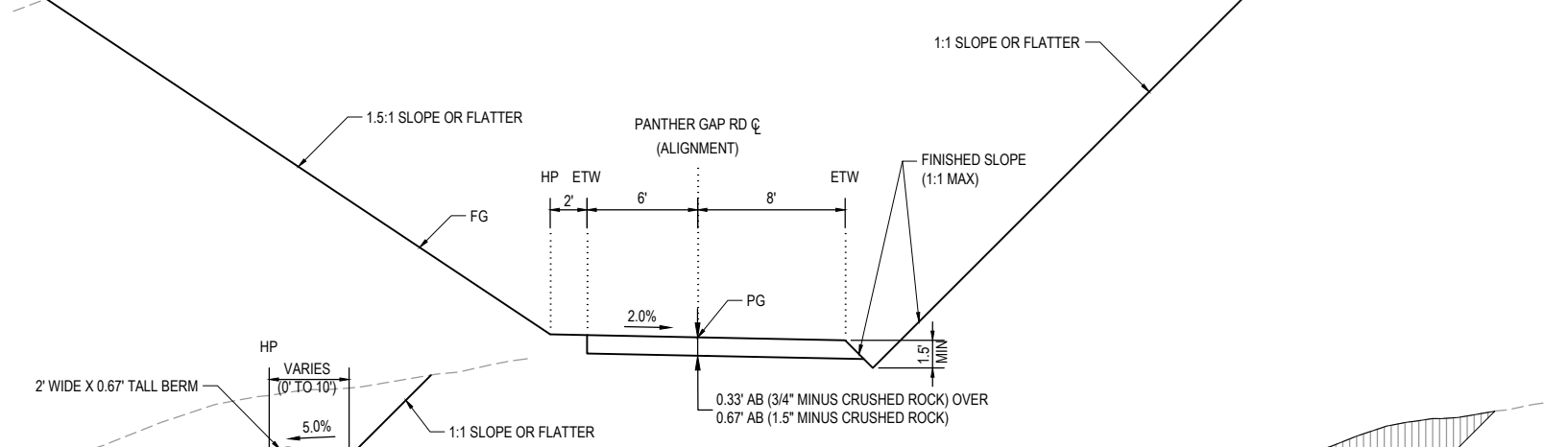
**TYPICAL SECTION - PANTHER GAP ROAD**  
NOT TO SCALE STA 71+00 - 75+50 & 82+45.97 - 85+60



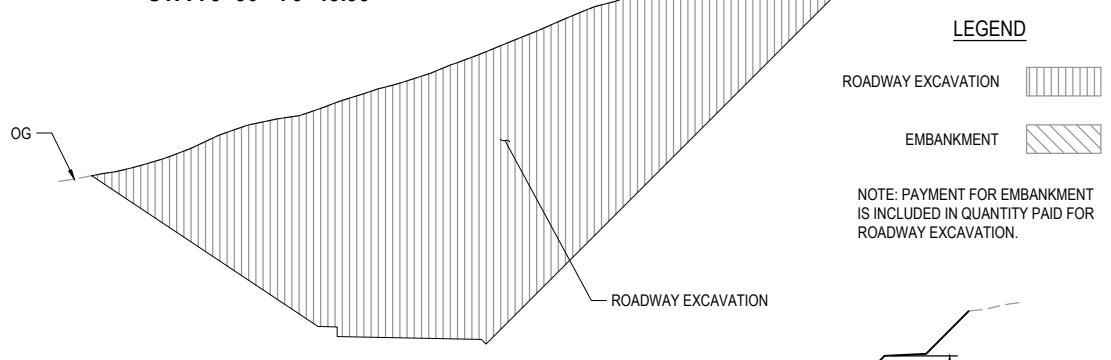
**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE



**TYPICAL SECTION - PANTHER GAP ROAD**  
NOT TO SCALE STA 75+50 - 76+45.99

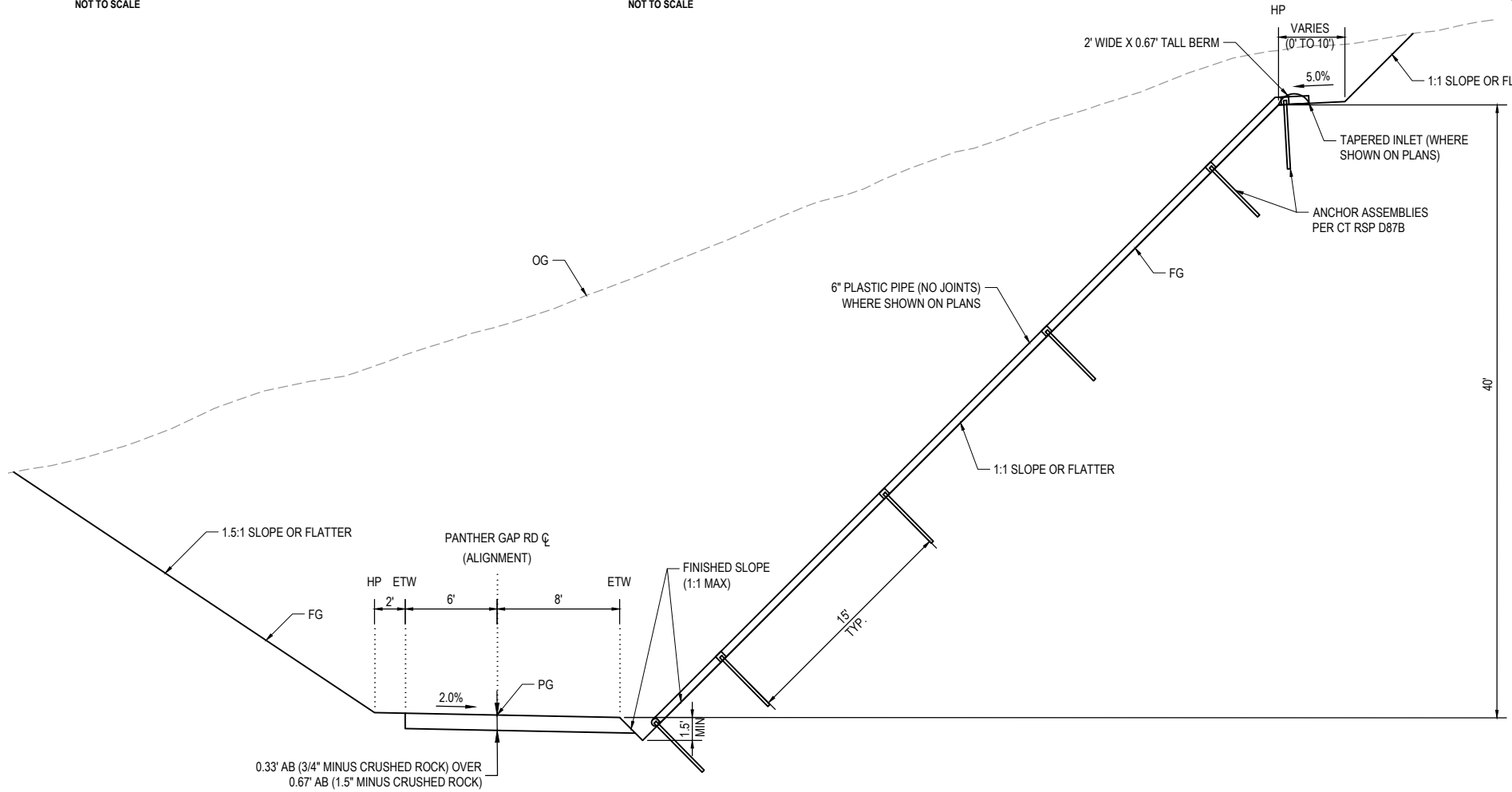


**LIMITS OF PAYMENT - CUT**  
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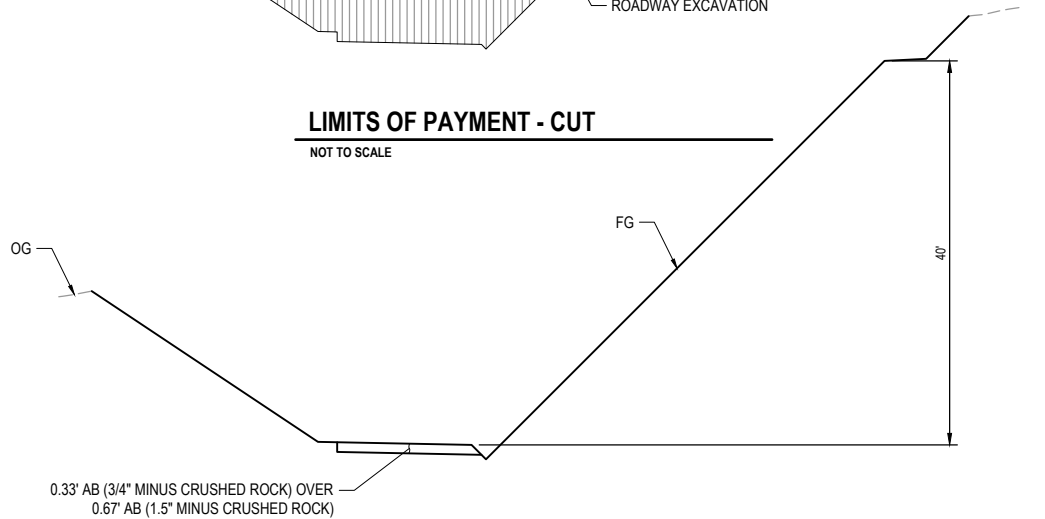
**LEGEND**

ROADWAY EXCAVATION	
EMBANKMENT	

NOTE: PAYMENT FOR EMBANKMENT IS INCLUDED IN QUANTITY PAID FOR ROADWAY EXCAVATION.



**TYPICAL SECTION - PANTHER GAP ROAD**  
NOT TO SCALE STA 76+45.99 - 76+95.22



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE



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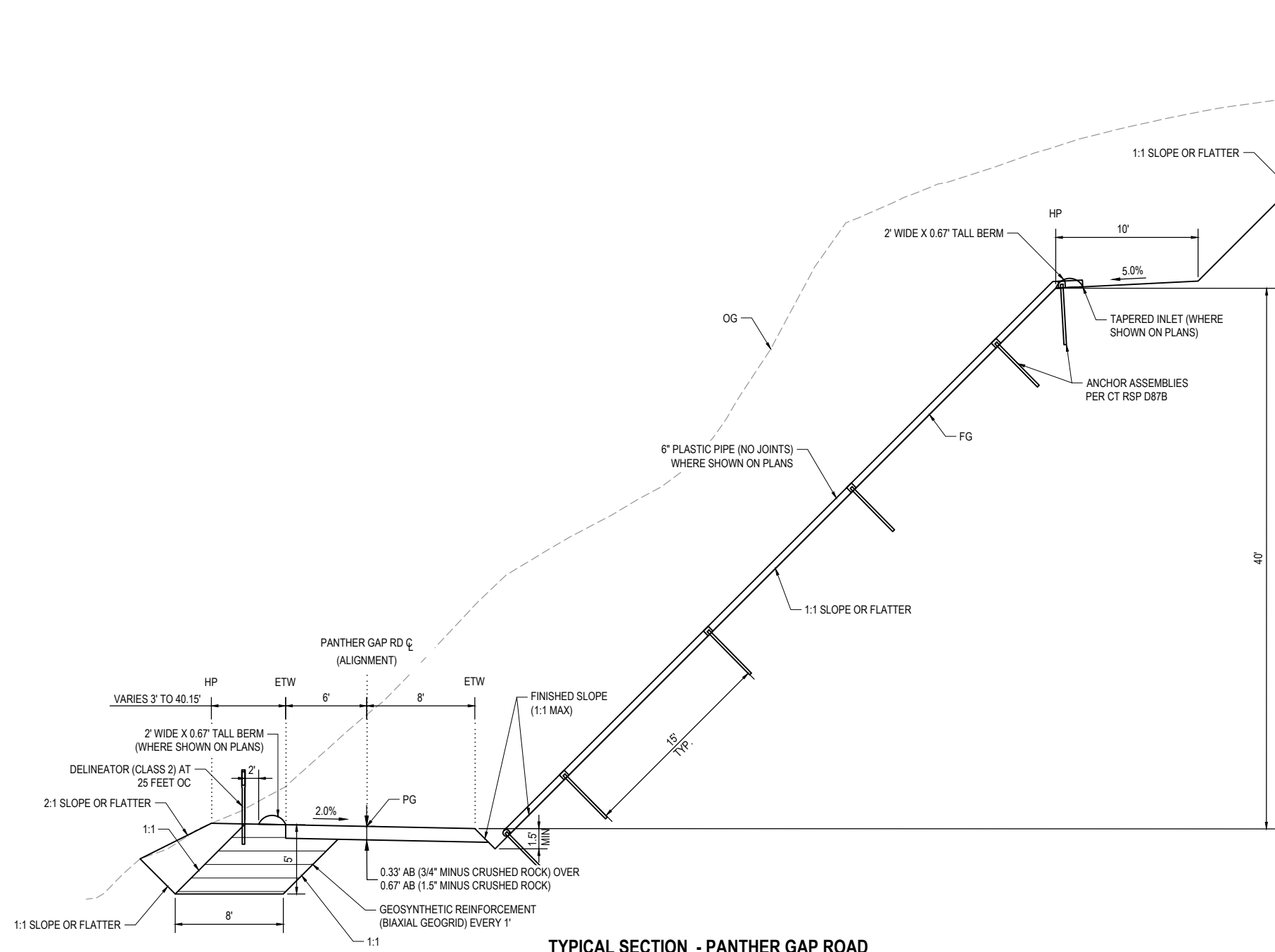
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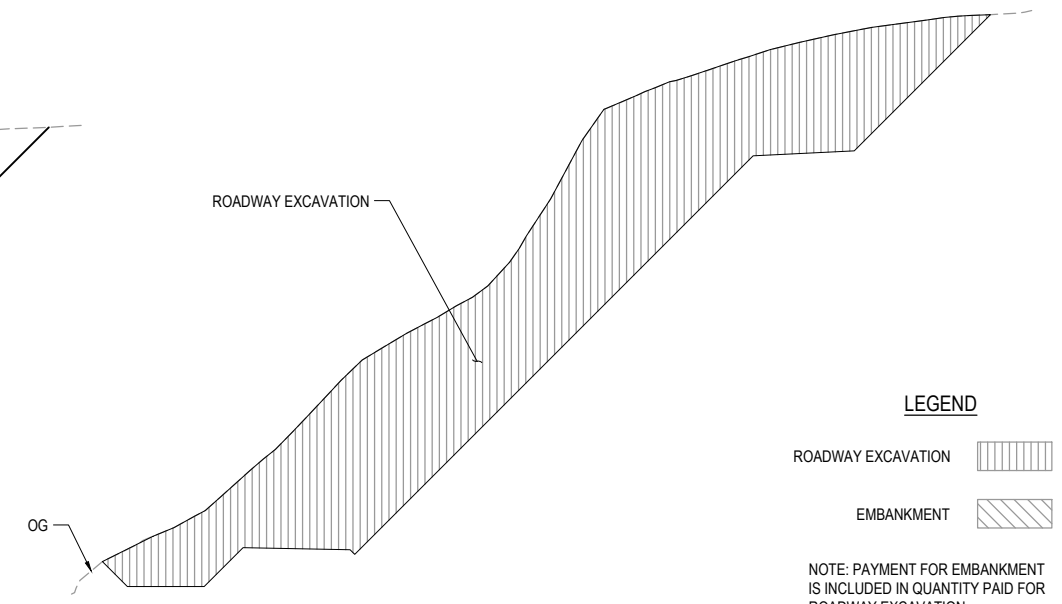
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STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
TYPICAL SECTIONS - 2 OF 4

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OF  
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**TYPICAL SECTION - PANTHER GAP ROAD**  
NOT TO SCALE STA 76+95.22 - 78+20 & 81+40 - 82+45.97



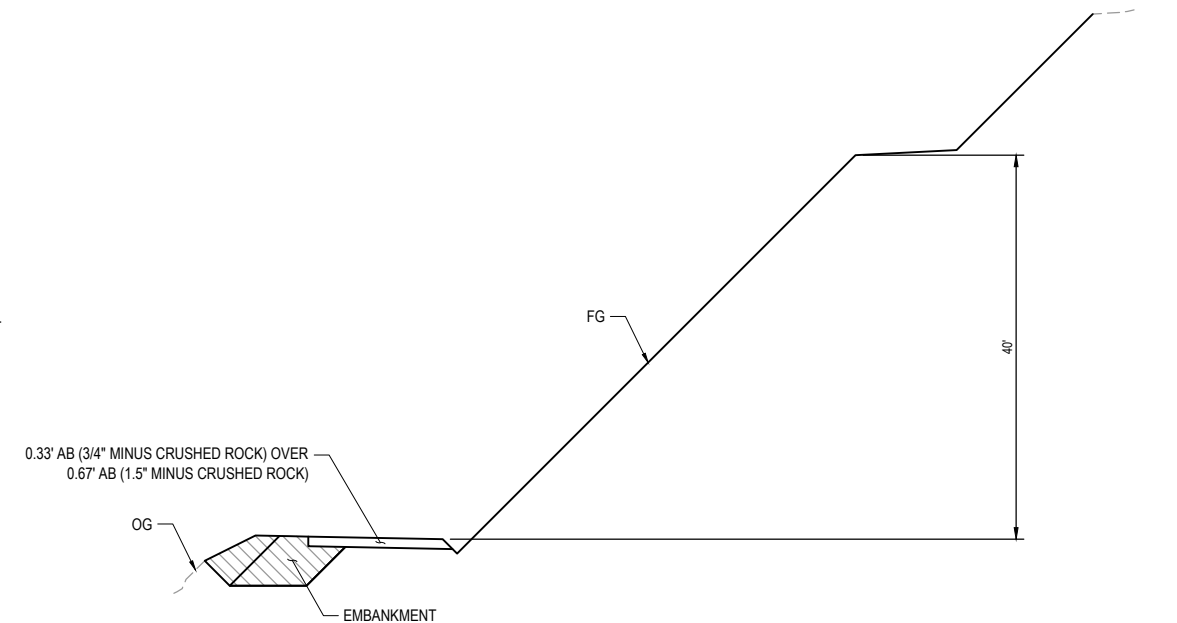
**LEGEND**

- ROADWAY EXCAVATION
- EMBANKMENT

NOTE: PAYMENT FOR EMBANKMENT IS INCLUDED IN QUANTITY PAID FOR ROADWAY EXCAVATION.

**LIMITS OF PAYMENT - CUT**

NOT TO SCALE



**LIMITS OF PAYMENT - FILL**

NOT TO SCALE

**LEGEND**

- ROADWAY EXCAVATION
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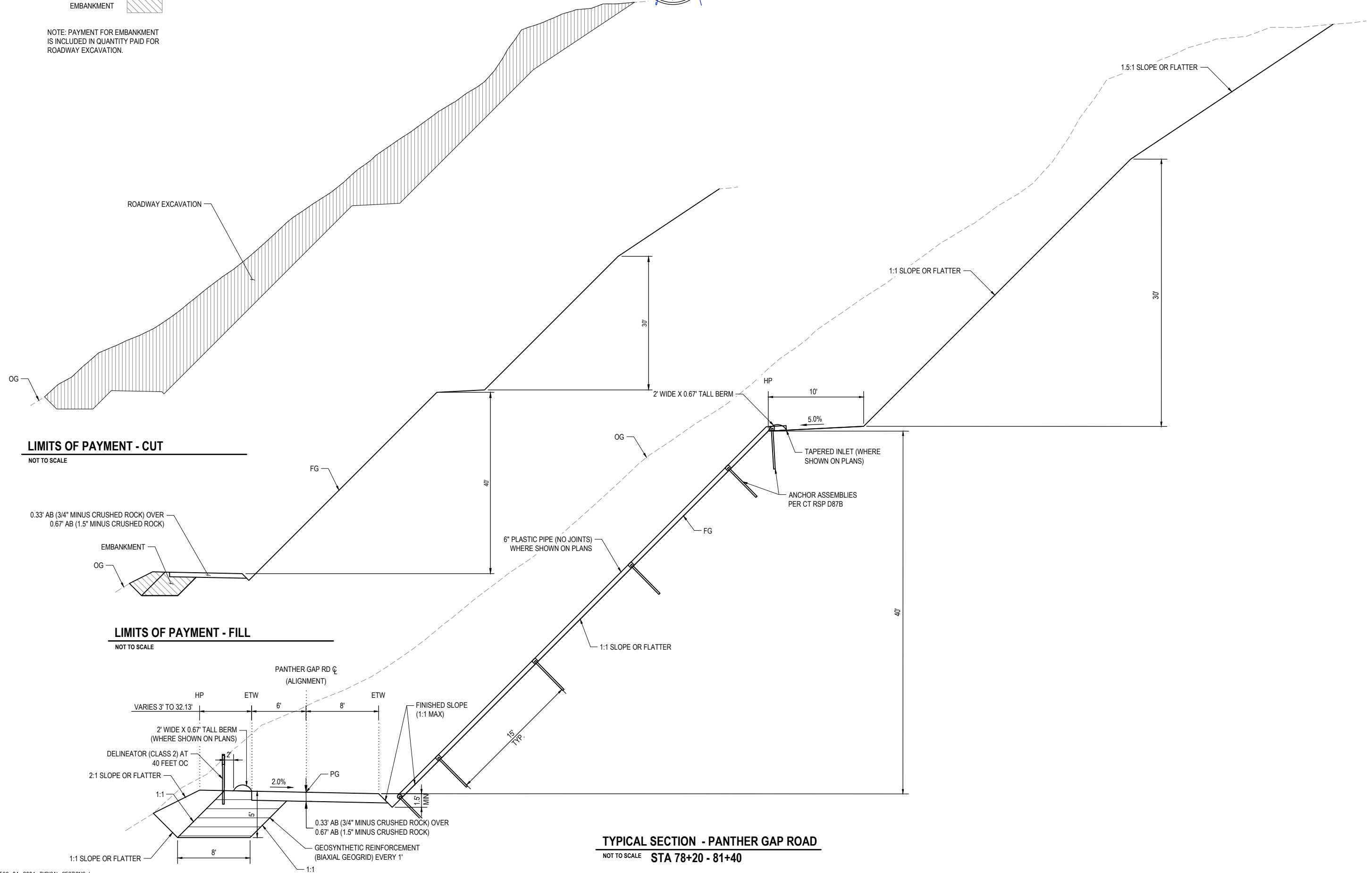
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<b>STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50</b>
<b>TYPICAL SECTIONS - 3 OF 4</b>

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OF  
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**LIMITS OF PAYMENT - CUT**

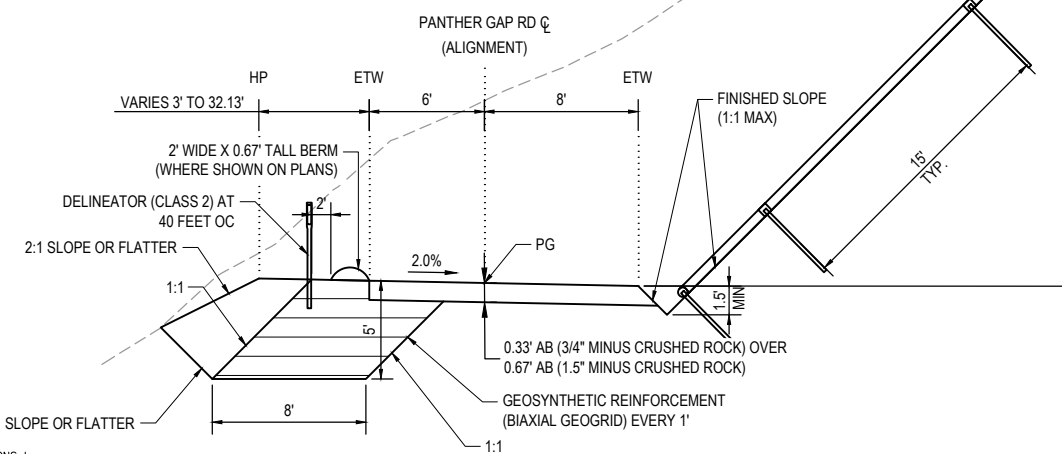
NOT TO SCALE

0.33' AB (3/4" MINUS CRUSHED ROCK) OVER  
0.67' AB (1.5" MINUS CRUSHED ROCK)

EMBANKMENT

**LIMITS OF PAYMENT - FILL**

NOT TO SCALE



**TYPICAL SECTION - PANTHER GAP ROAD**

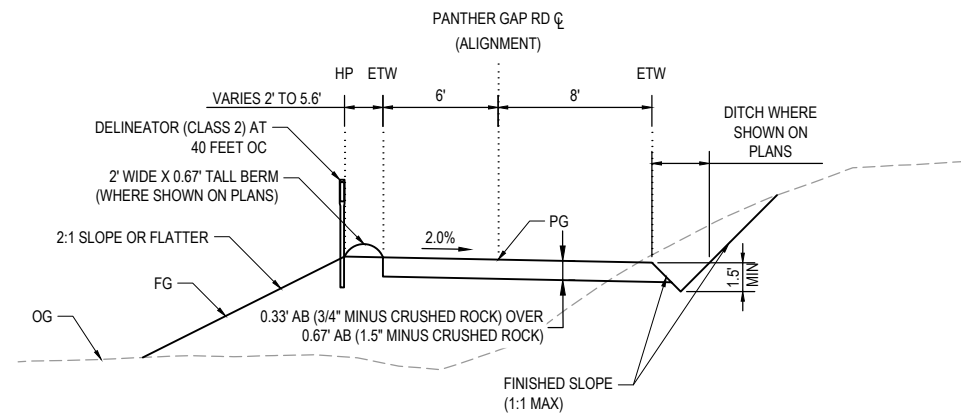
NOT TO SCALE STA 78+20 - 81+40



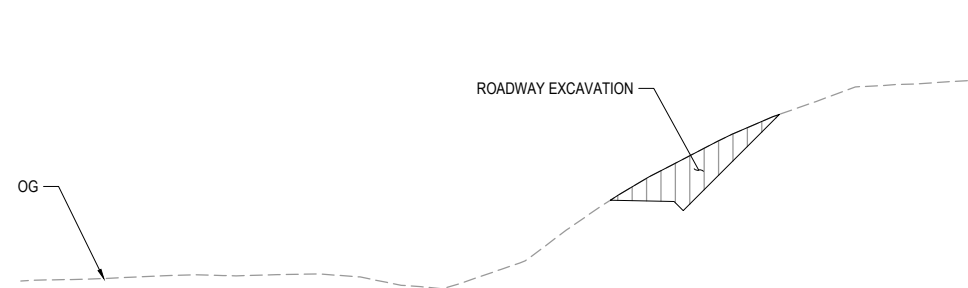
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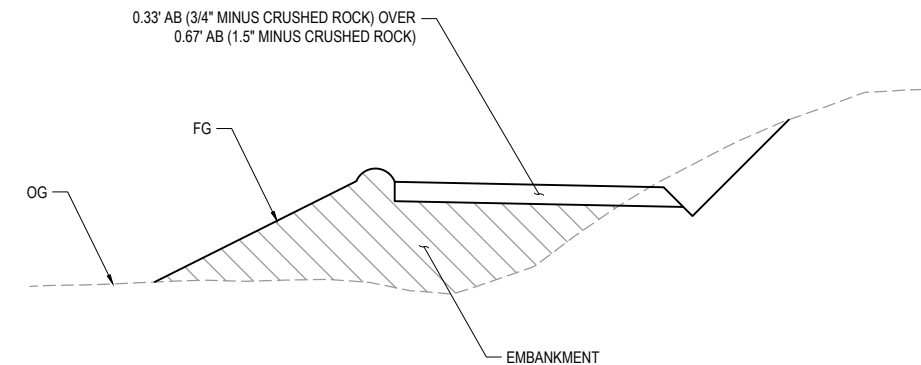
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**TYPICAL SECTION - PANTHER GAP ROAD**  
NOT TO SCALE STA 85+60 - 87+90



**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE

**LEGEND**

- ROADWAY EXCAVATION
- EMBANKMENT

NOTE: PAYMENT FOR EMBANKMENT IS INCLUDED IN QUANTITY PAID FOR ROADWAY EXCAVATION.

**LEGEND**

- · — · — · EDGE OF SCARP AREA
- - - - - DAYLIGHT LINE (CLEARING LIMITS)
- ▨ DECOMMISSION ROADWAY
- - - - - RW
- - - - - P/L

**NOTE:**  
 TREES, STUMPS, ROOTS, OTHER VEGETATION, AND BOULDERS REMOVED FROM WITHIN THE CLEARING LIMITS MAY BE PLACED AND DISPOSED OF WITHIN THE SCARP AREA (OUTSIDE THE LIMITS OF WORK). EXCAVATED MATERIAL AND SOIL SHALL NOT BE DISPOSED OF WITHIN THE SCARP AREA.



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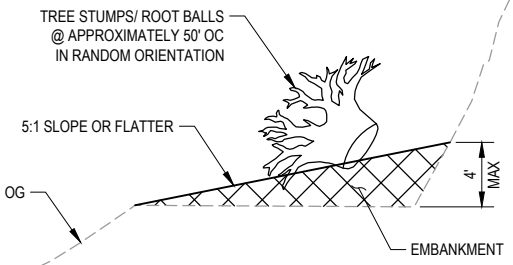
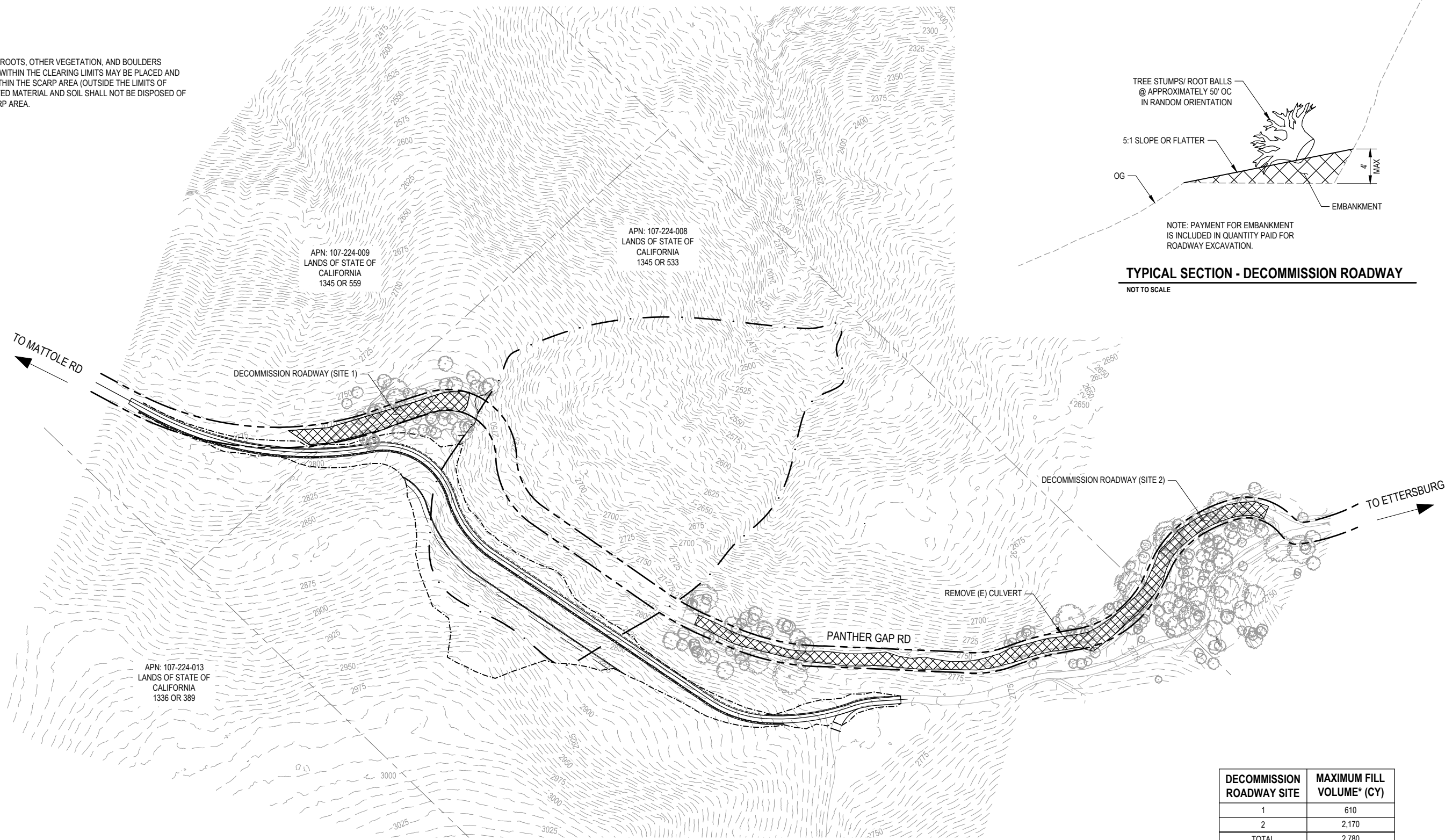
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<b>ONSITE CLEARING AND ROADWAY DECOMMISSIONING</b>

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 49



NOTE: PAYMENT FOR EMBANKMENT IS INCLUDED IN QUANTITY PAID FOR ROADWAY EXCAVATION.

**TYPICAL SECTION - DECOMMISSION ROADWAY**  
 NOT TO SCALE








DECOMMISSION ROADWAY SITE	MAXIMUM FILL VOLUME* (CY)
1	610
2	2,170
TOTAL	2,780

\* ACTUAL UTILIZED VOLUME MAY VARY





**LEGEND**

-  BERM
-  EDGE OF SHOULDER
-  EDGE OF TRAVELED WAY
-  DITCH
-  DAYLIGHT LINE
-  STORM DRAIN PIPE
-  DECOMMISSION ROADWAY



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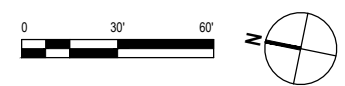
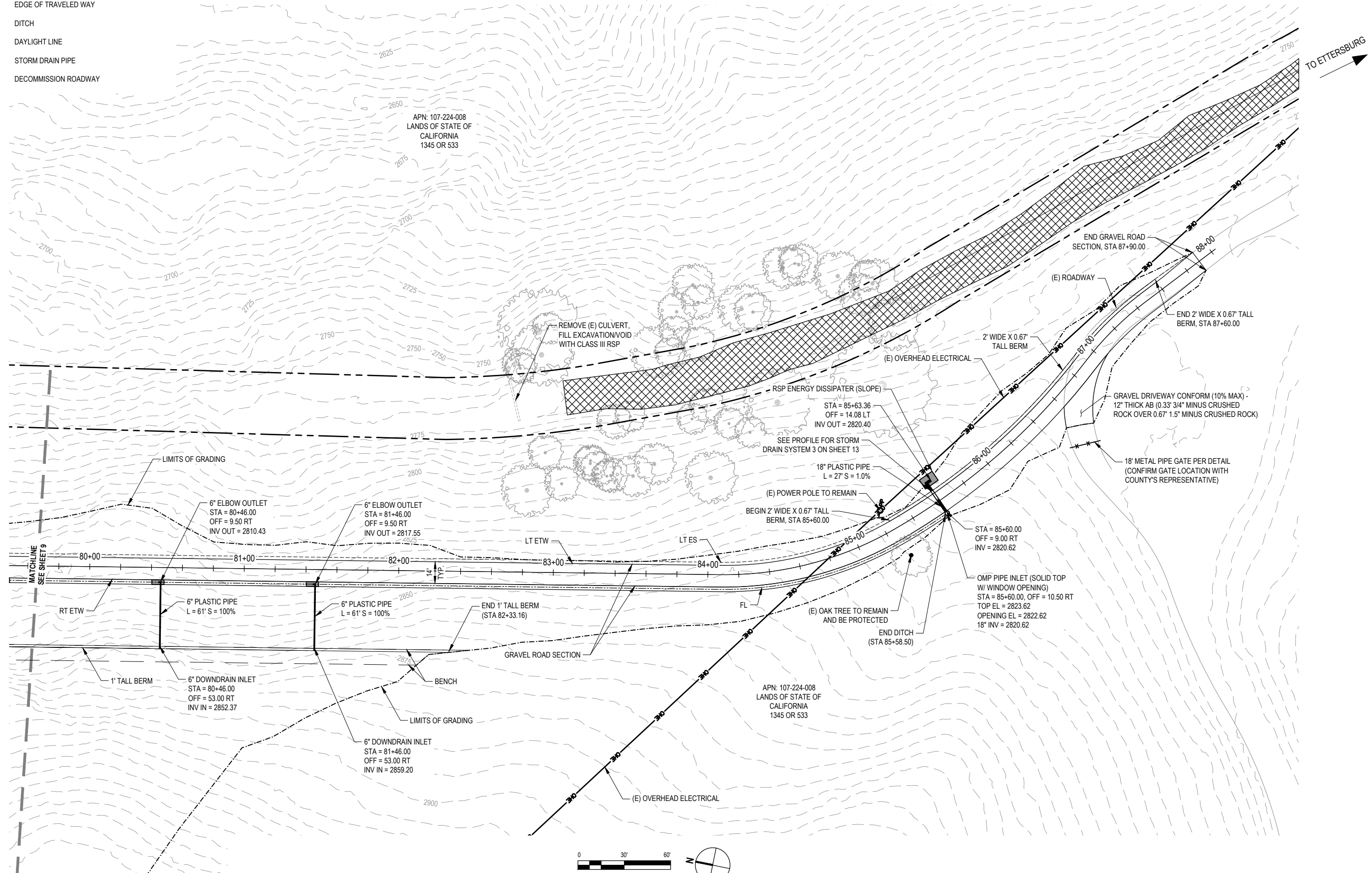
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APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
<b>STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50</b>
LAYOUT - 2 OF 2

SHEET  
**10**  
OF  
**49**





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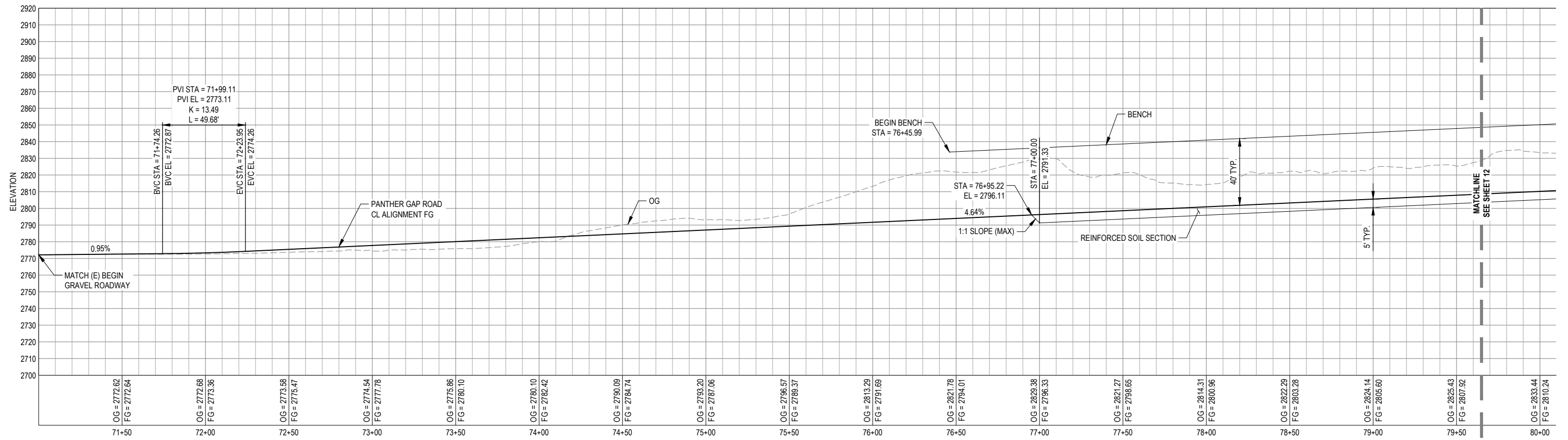
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
ROADWAY PROFILE - 1 OF 2

SHEET  
11  
OF  
49



**PANTHER GAP ROAD PM 0.50 PROFILE VIEW**

0 15' 30' 60' HORIZONTAL  
0 15' 30' 60' VERTICAL



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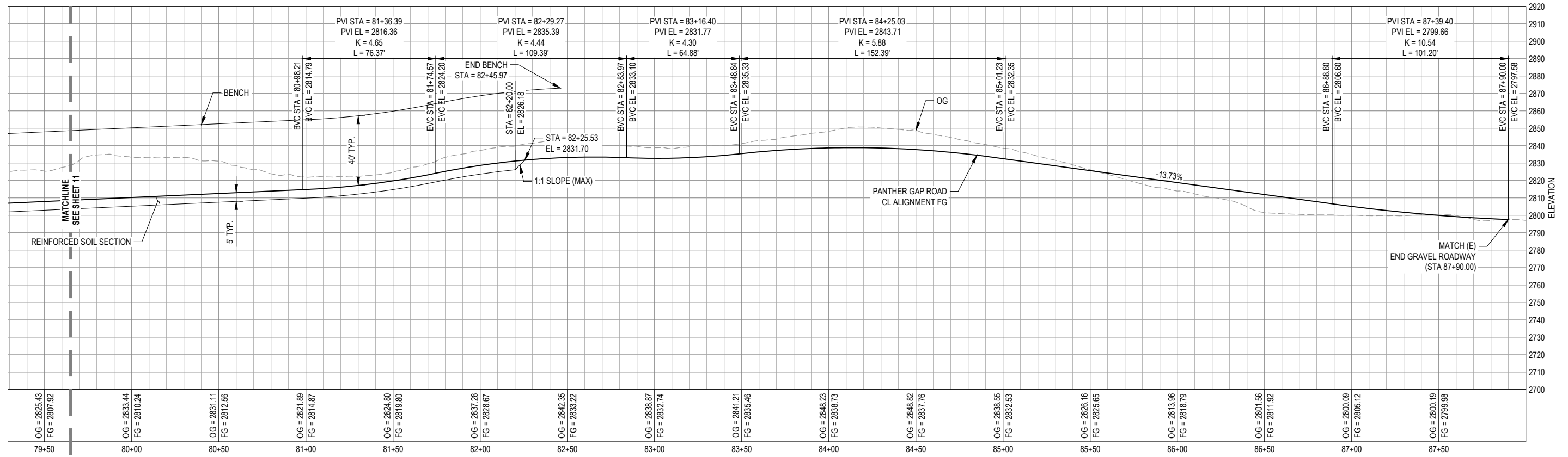
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	40010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
ROADWAY PROFILE - 2 OF 2

SHEET 12 OF 49



PANTHER GAP ROAD PM 0.50 PROFILE VIEW

0 15' 30' 60' HORIZONTAL  
0 15' 30' 60' VERTICAL



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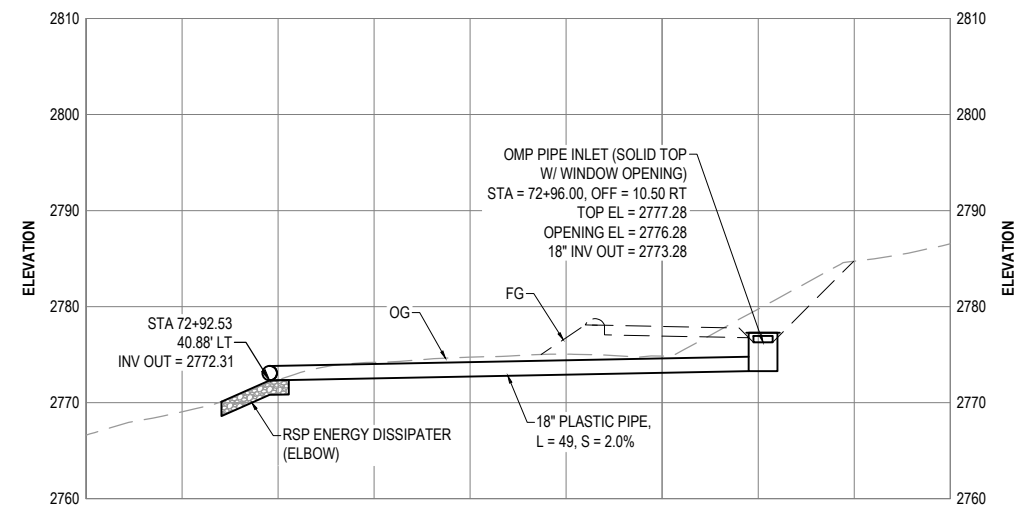
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

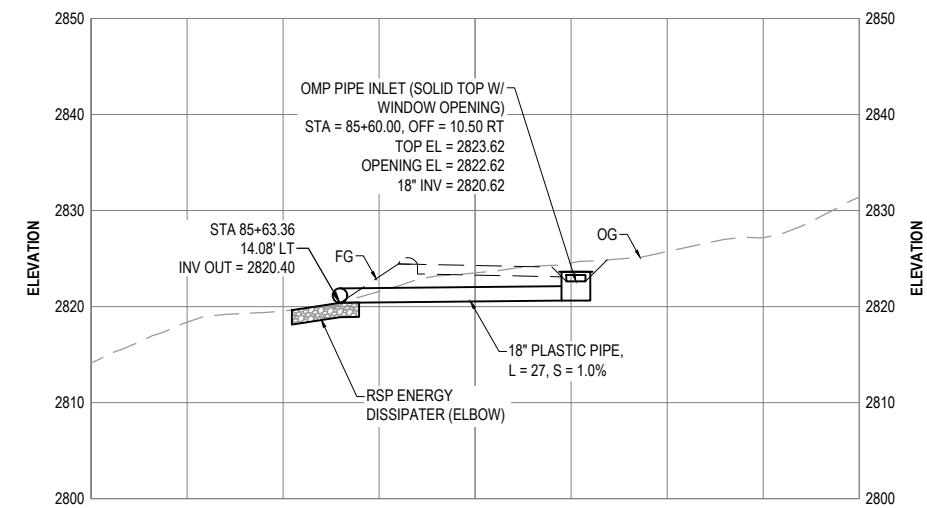
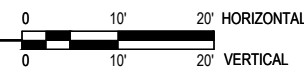
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
DRAINAGE PROFILES

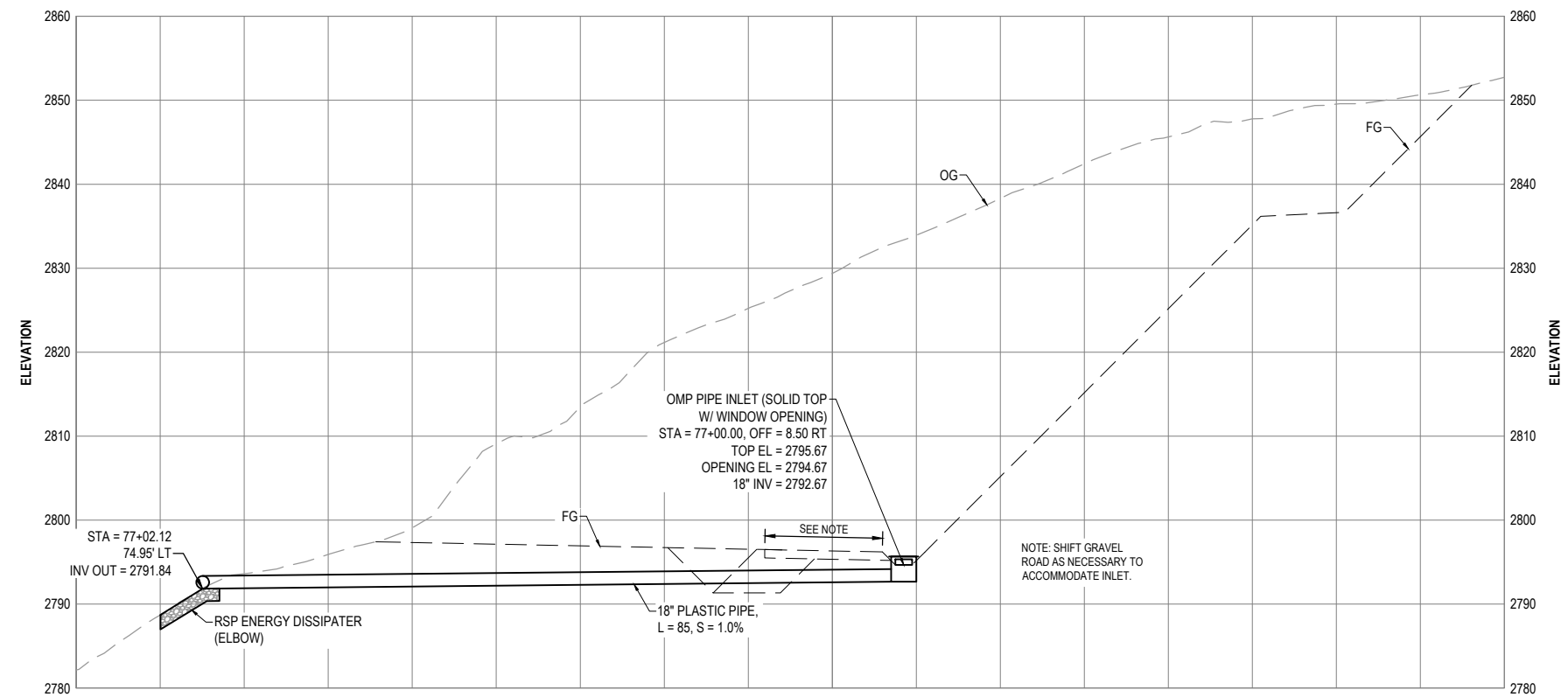
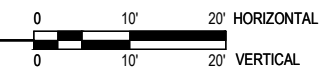
SHEET 13 OF 49



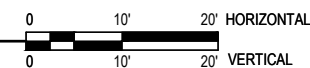
STORM DRAIN SYSTEM 1 PROFILE



STORM DRAIN SYSTEM 3 PROFILE



STORM DRAIN SYSTEM 2 PROFILE

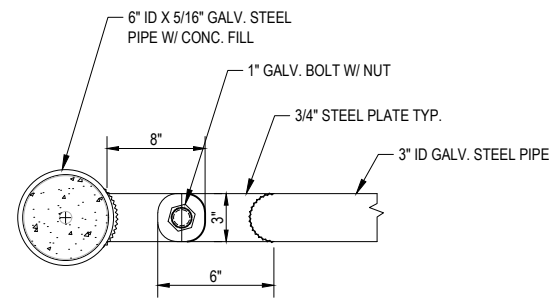




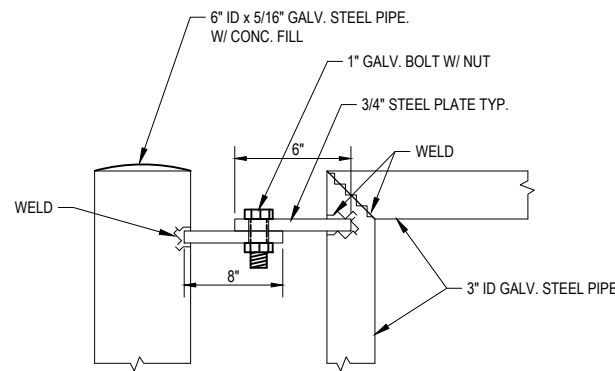
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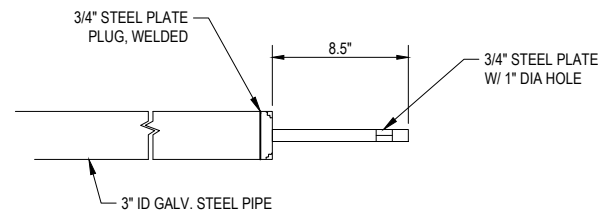
BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT
	ROAD NO: 40010	ENGINEERING	DEPARTMENT OF PUBLIC WORKS
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	MILE POST: 0.50	DESIGNED BY: C.PROVO	<b>STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50</b>
	PROJECT NO.: FEMA 4301-CA-DR PW-909	DRAWN BY: C.PROVO	
	CONTRACT NO.: 217387	REVIEWED BY: J. WOLF	<b>CONSTRUCTION DETAILS</b>
	PLOT DATE: 05/18/2022	APPROVED BY: J. WOLF	



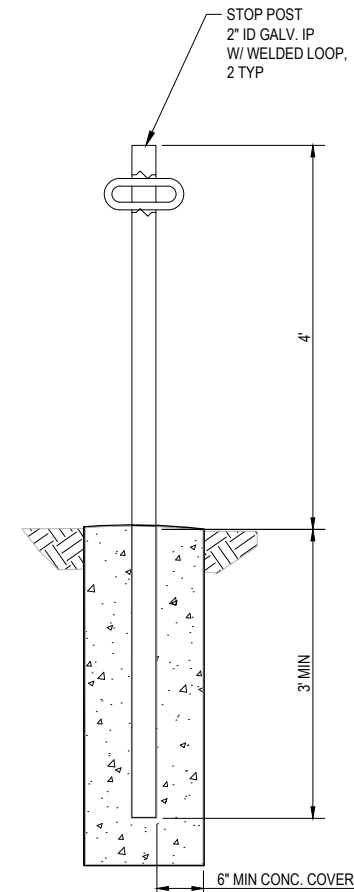
PLAN: TOP HINGE DETAIL



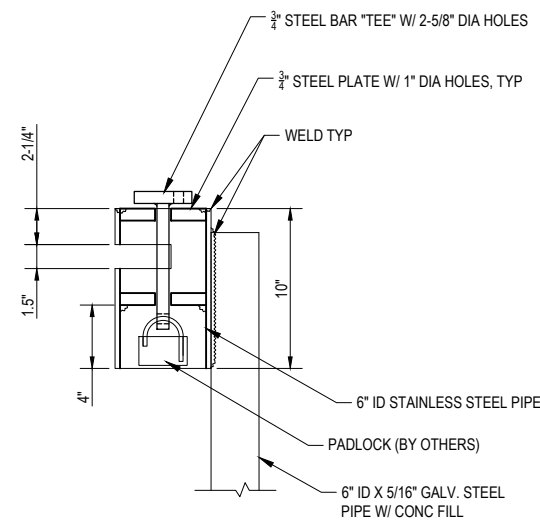
PROFILE: HINGE DETAIL



DETAIL: MALE LEAF CLOSURE



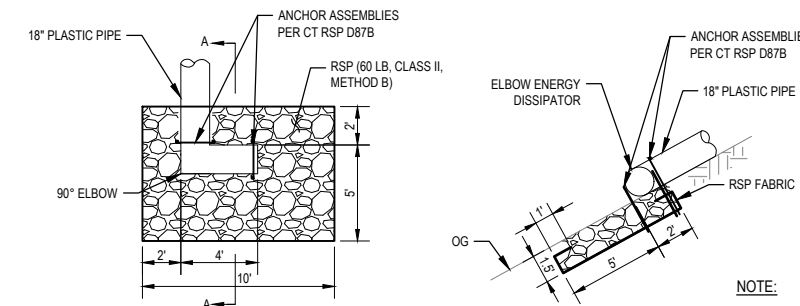
STOP POST DETAIL



DETAIL: FEMALE LEAF ENCLOSURE

**18' METAL PIPE GATE DETAILS**

NOT TO SCALE



PLAN VIEW

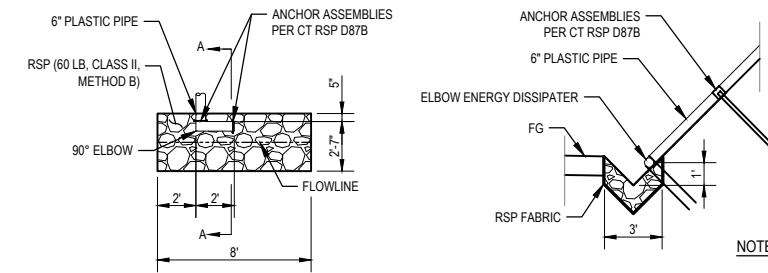
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**RSP ENERGY DISSIPATOR (ELBOW)**

NOT TO SCALE

**NOTE:**

- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.
- RSP FABRIC IS INCLUDED IN PAYMENT FOR RSP.



PLAN VIEW

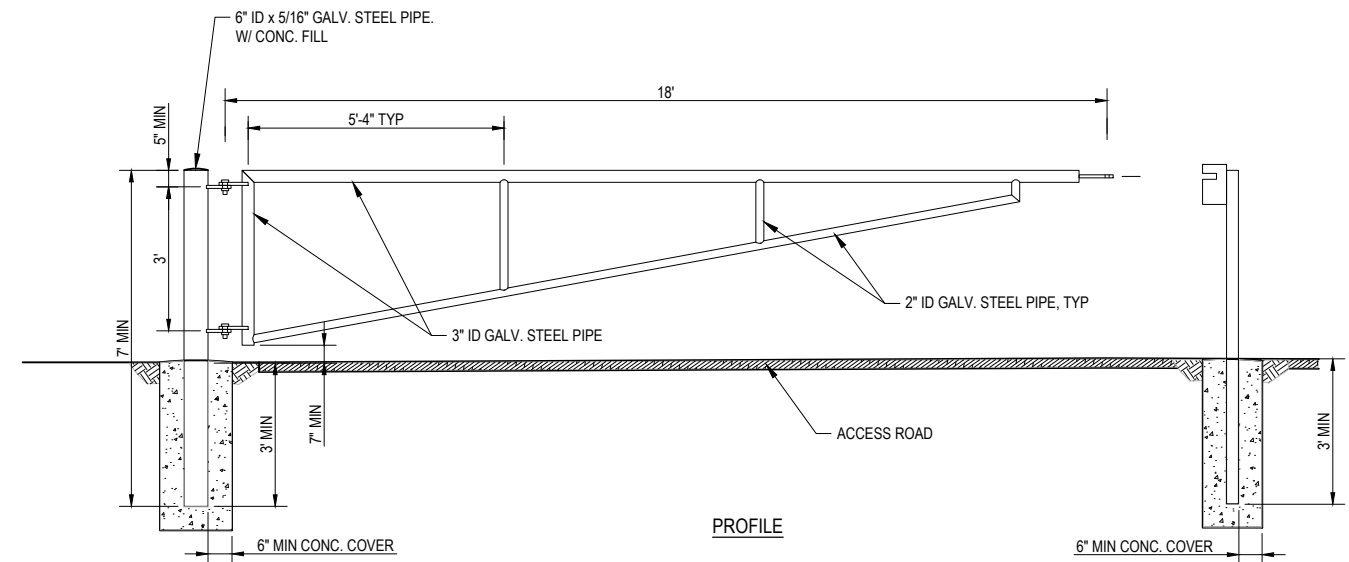
SECTION A-A

**6\"/>**

NOT TO SCALE

**NOTE:**

- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.
- RSP FABRIC IS INCLUDED IN PAYMENT FOR RSP.



PROFILE

NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



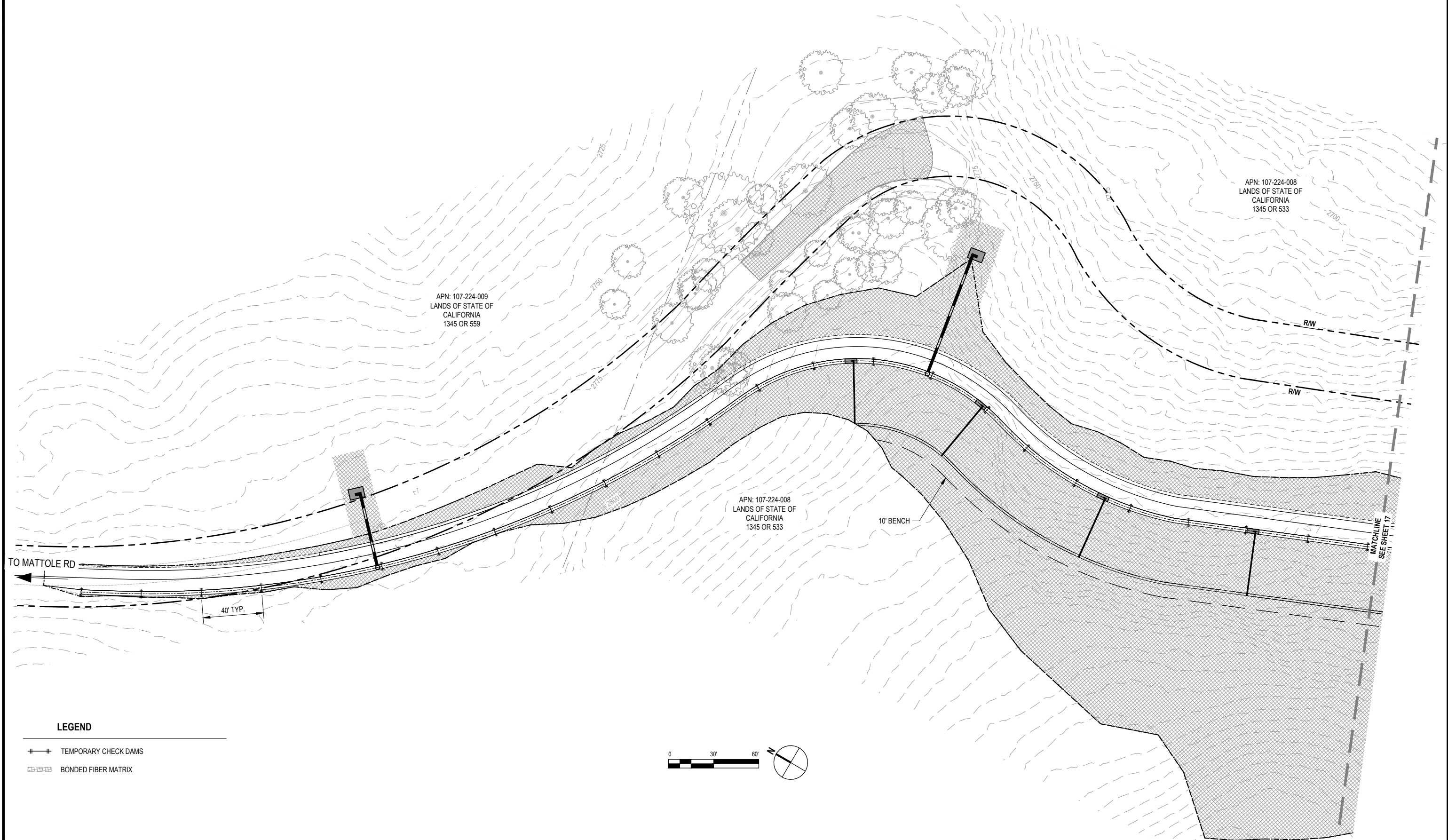
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ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PROVO
MILE POST: 0.50	DRAWN BY: C.PROVO
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

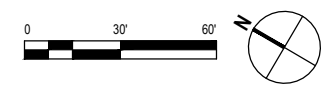
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
EROSION CONTROL - 1 OF 2

SHEET 15 OF 49



LEGEND

- +—+— TEMPORARY CHECK DAMS
- ▨ BONDED FIBER MATRIX



NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY

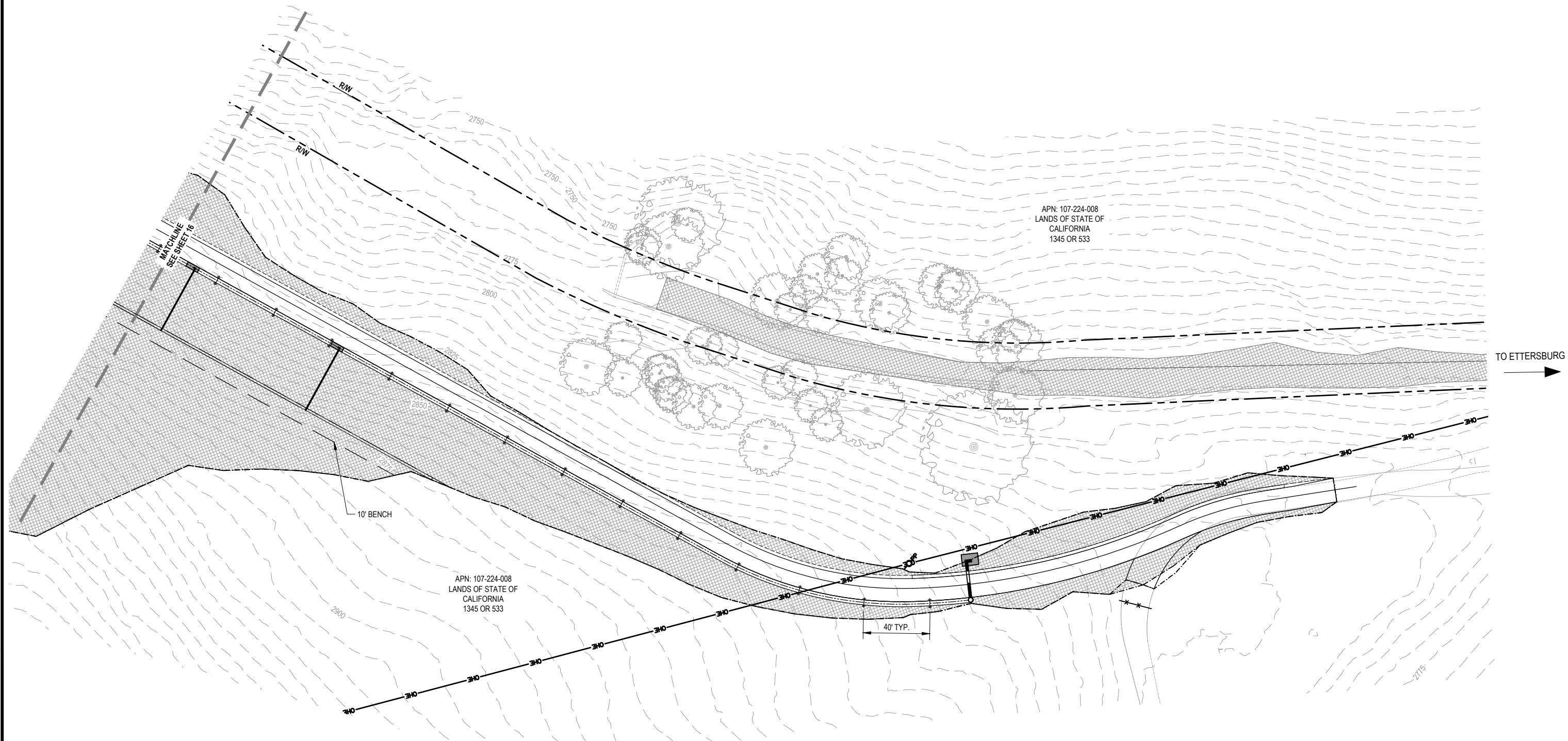


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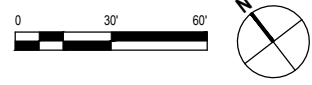
ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PROVO
MILE POST: 0.50	DRAWN BY: C.PROVO
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
EROSION CONTROL - 2 OF 2



LEGEND

- TEMPORARY CHECK DAMS
- BONDED FIBER MATRIX







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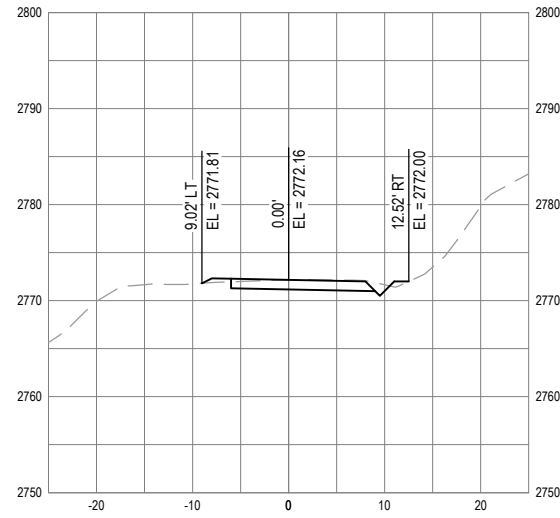


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ROAD NO: 4D010  
MILE POST: 0.50  
PROJECT NO.: FEMA 4301-CA-DR PW-909  
CONTRACT NO.: 217387  
PLOT DATE: 05/18/2022

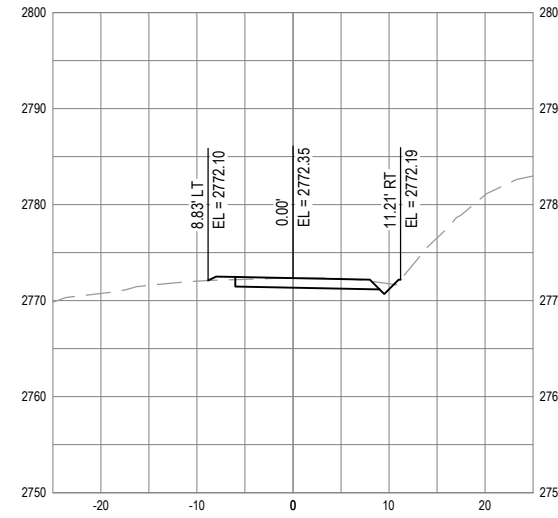
DESIGN SECTION  
ENGINEERING  
DESIGNED BY: C.PROVO  
DRAWN BY: C.PROVO  
REVIEWED BY: J. WOLF  
APPROVED BY: J. WOLF

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50  
CROSS SECTIONS - 1 OF 26

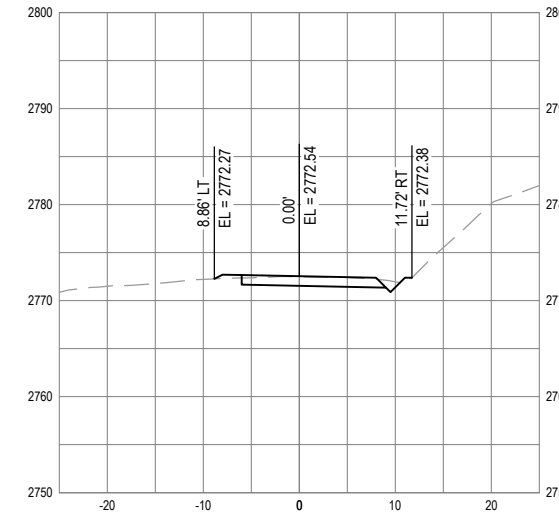
SHEET  
17  
OF  
49



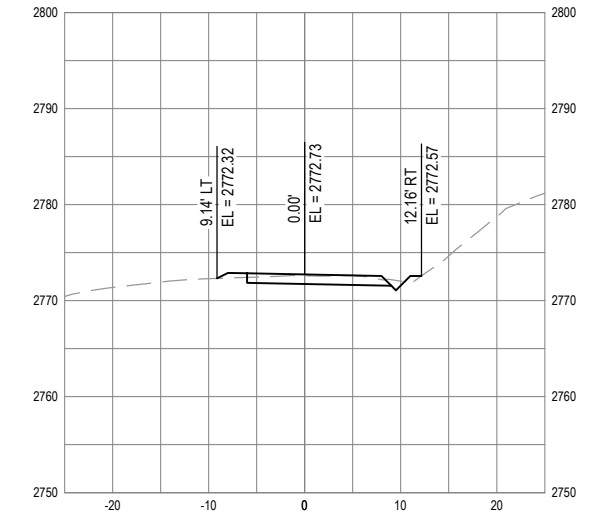
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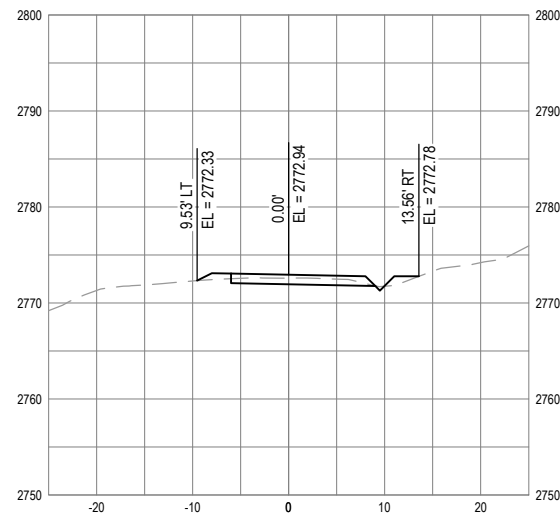
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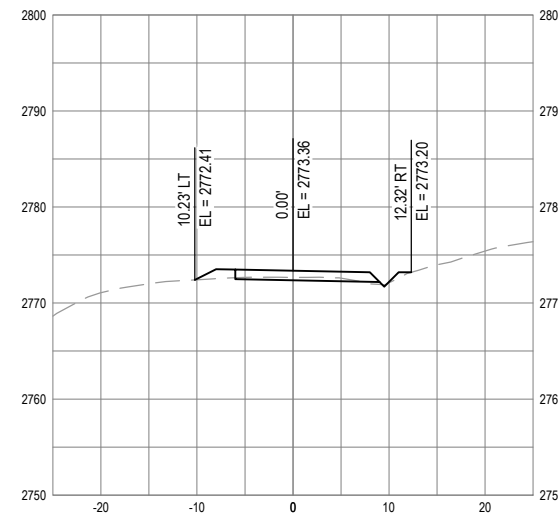
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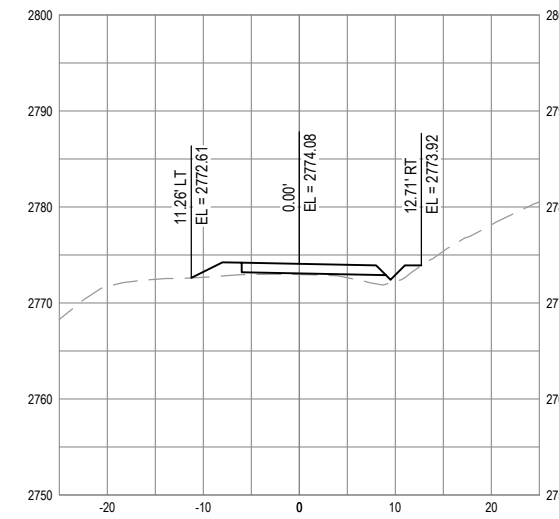
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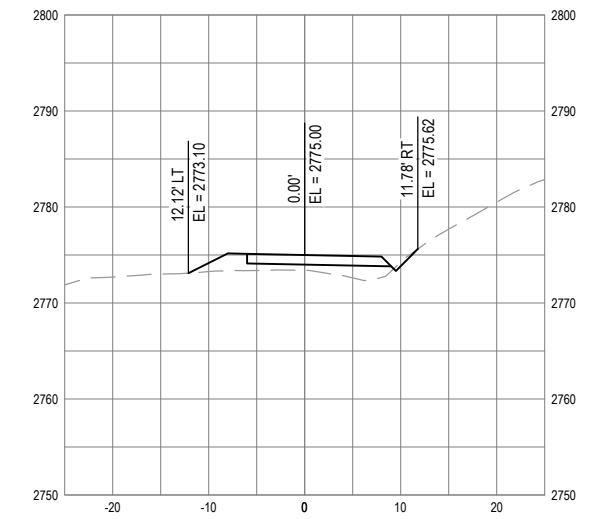
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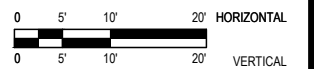
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SECTION - STA 72+20



SECTION - STA 72+40





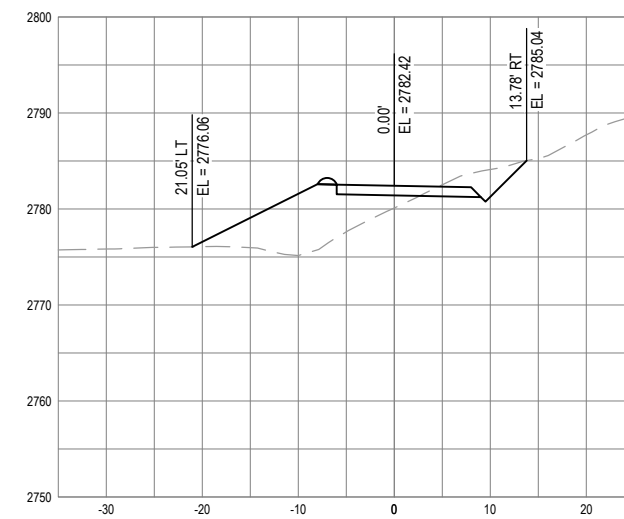
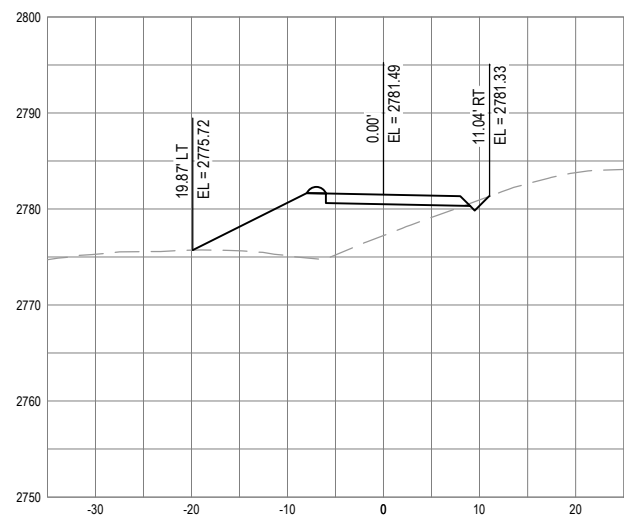
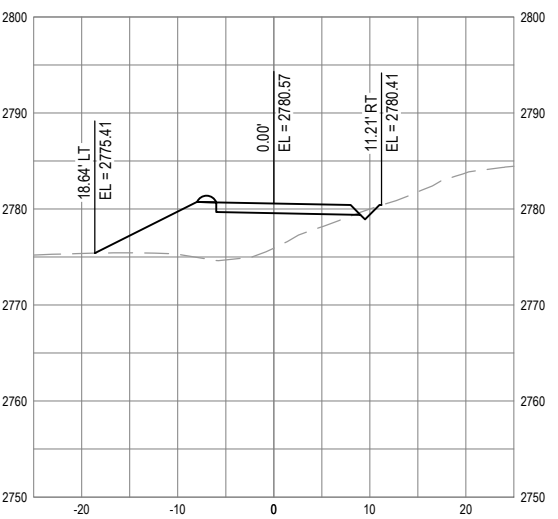
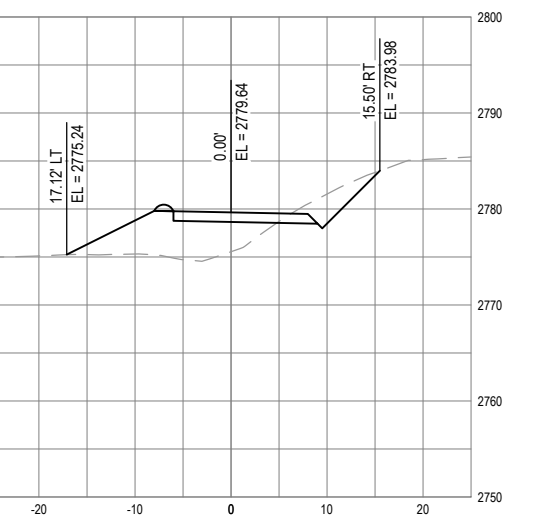
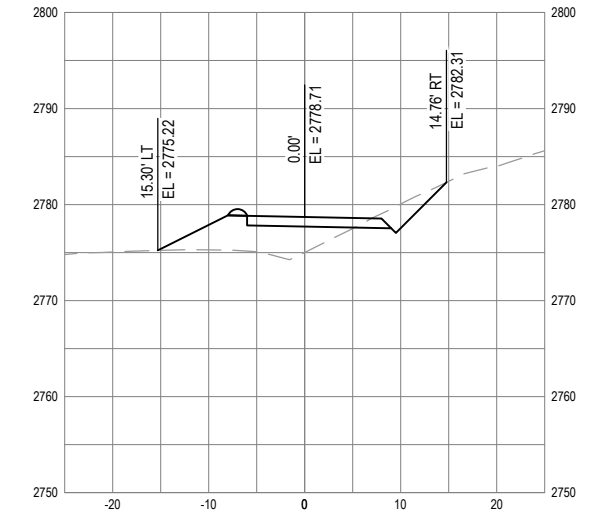
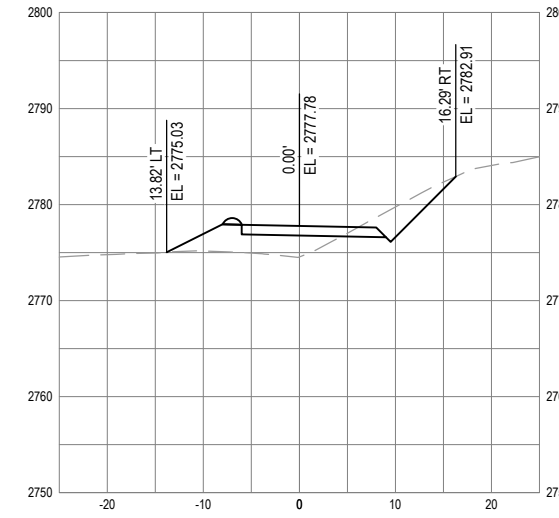
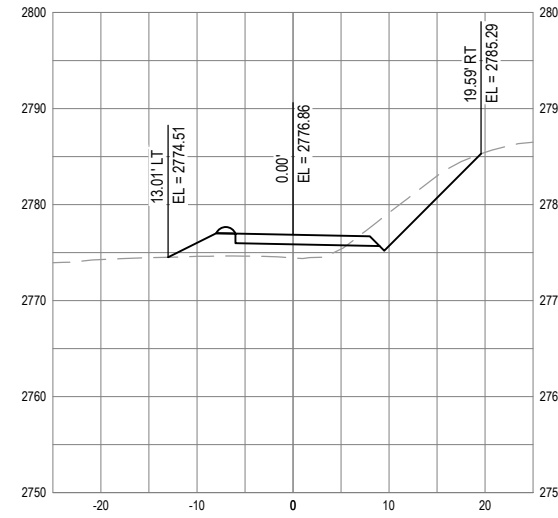
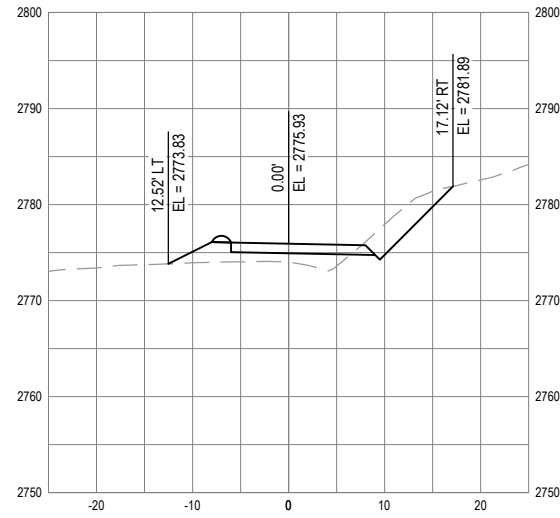
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ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PROVO
MILE POST: 0.50	DRAWN BY: C.PROVO
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 2 OF 26

SHEET  
18  
OF  
49





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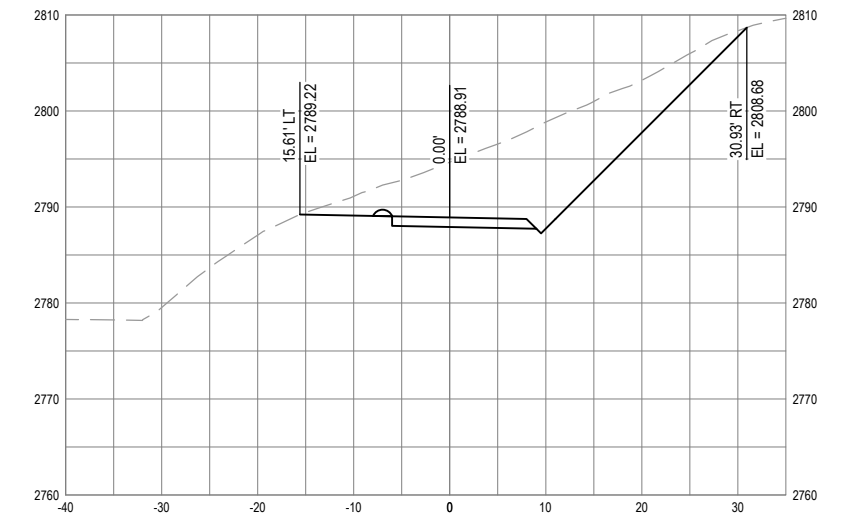
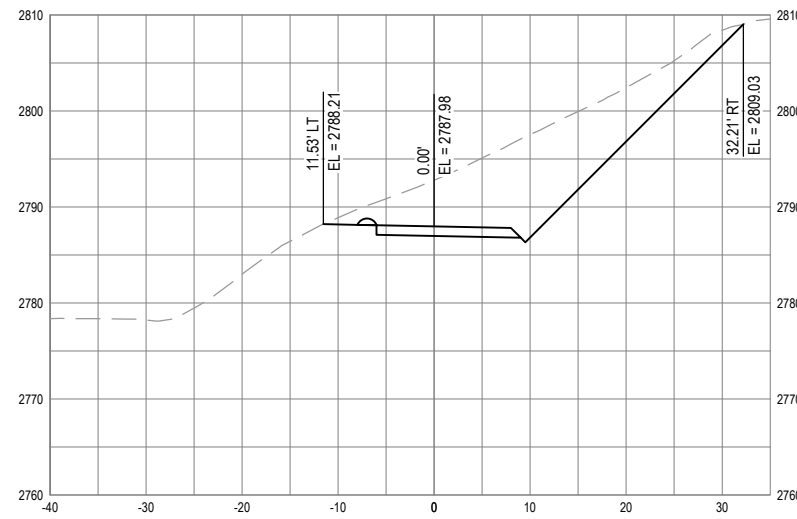
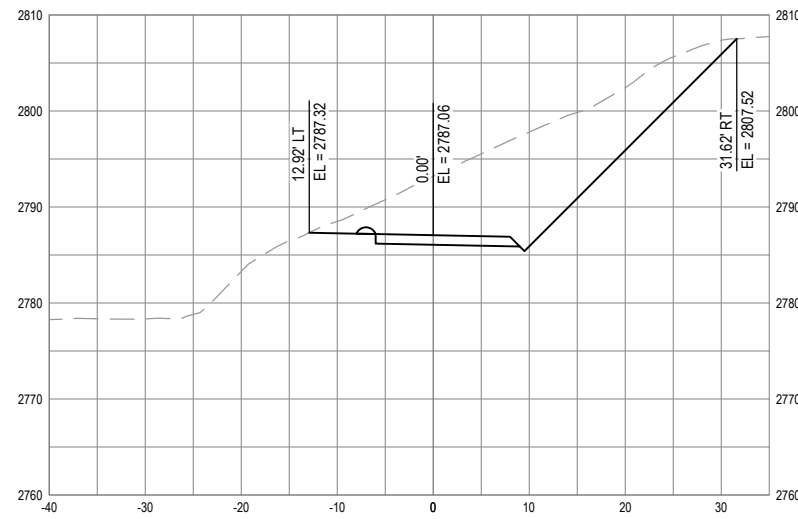
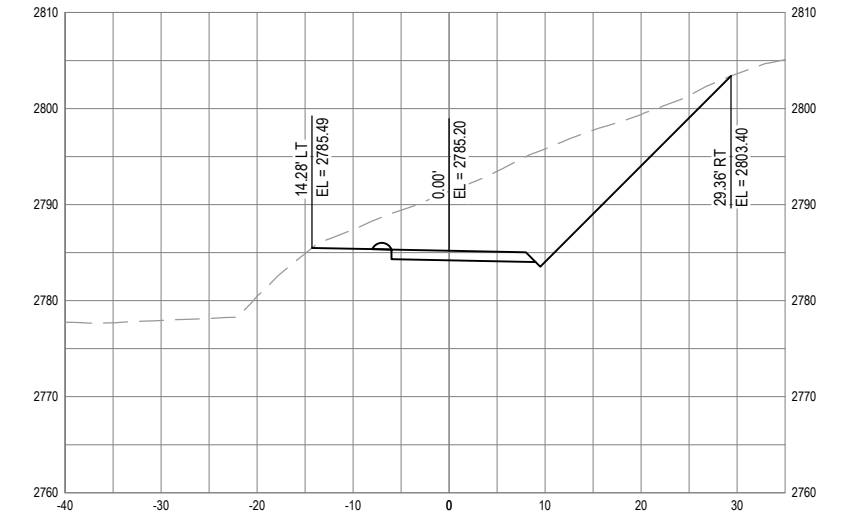
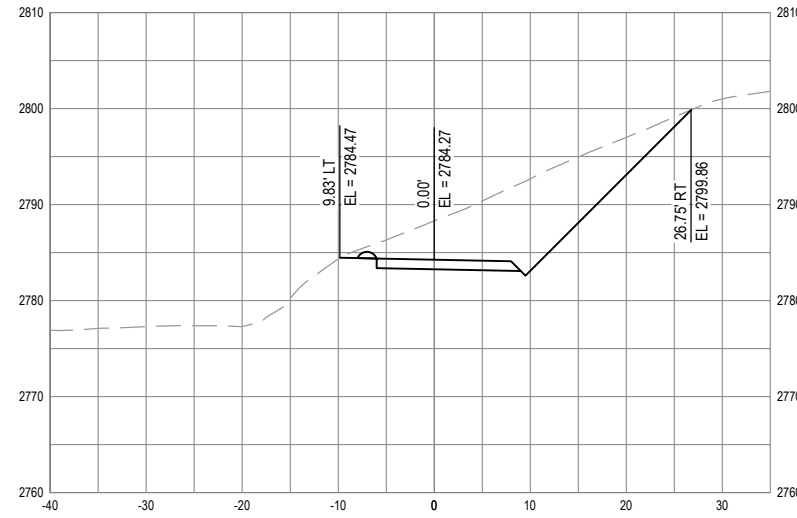
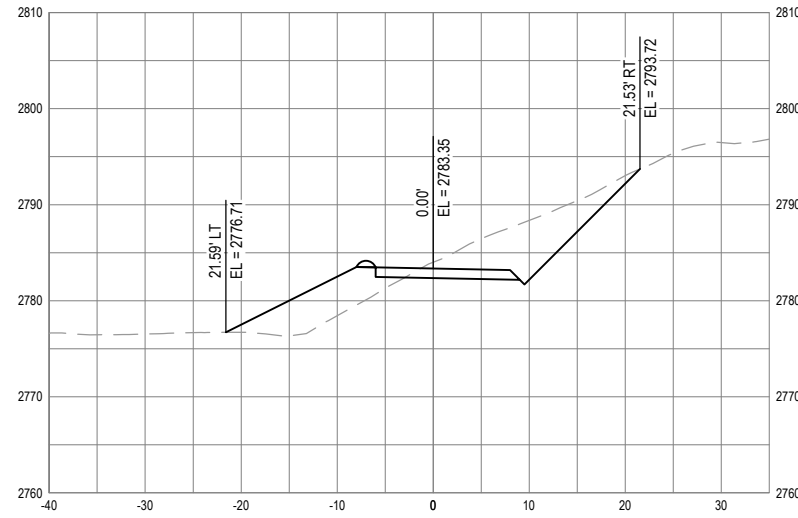
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO.:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 3 OF 26

SHEET  
19  
OF  
49





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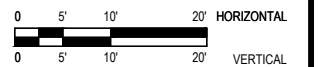
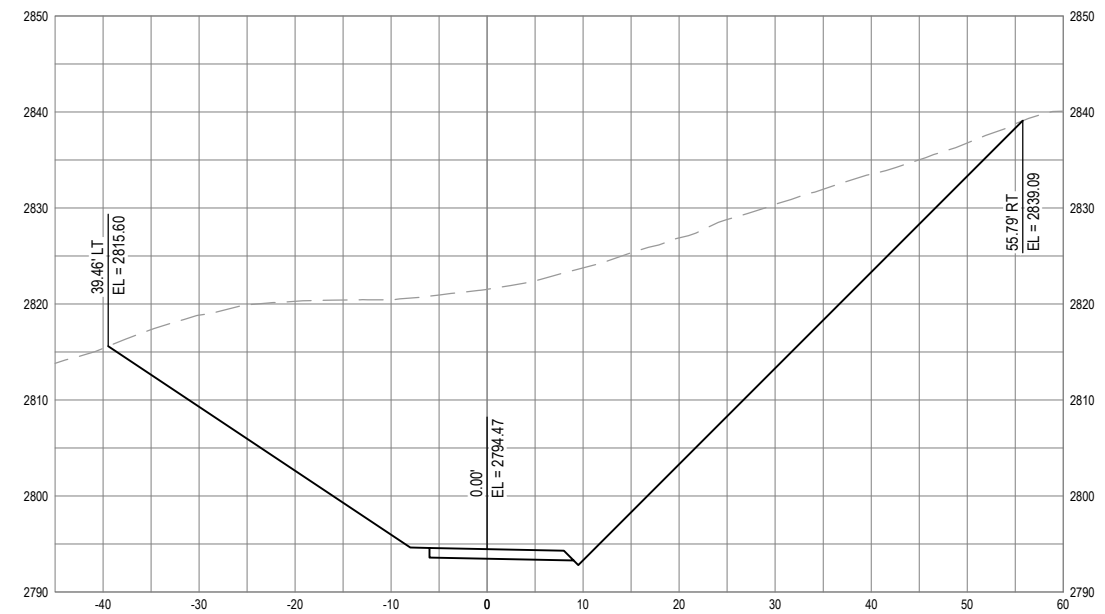
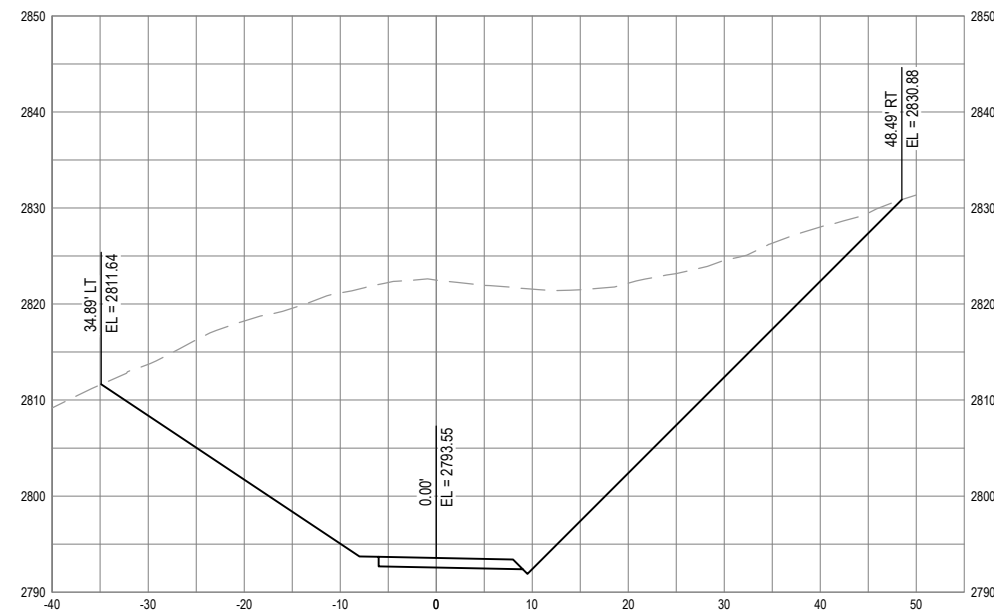
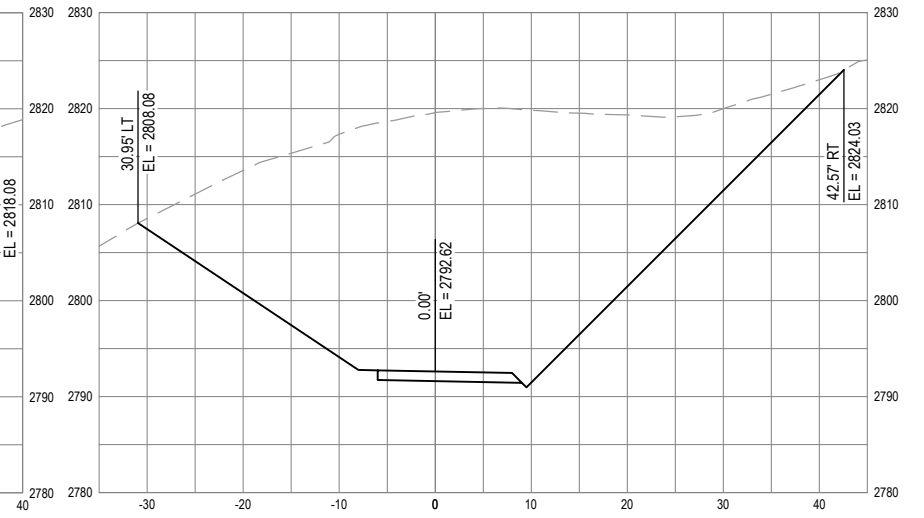
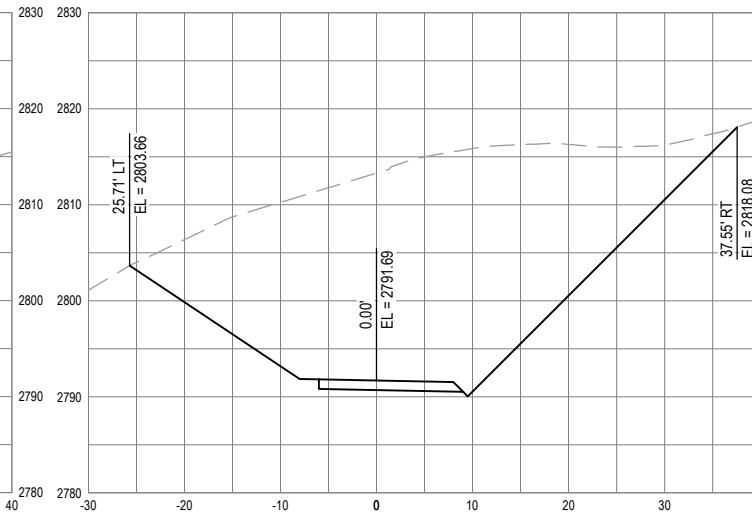
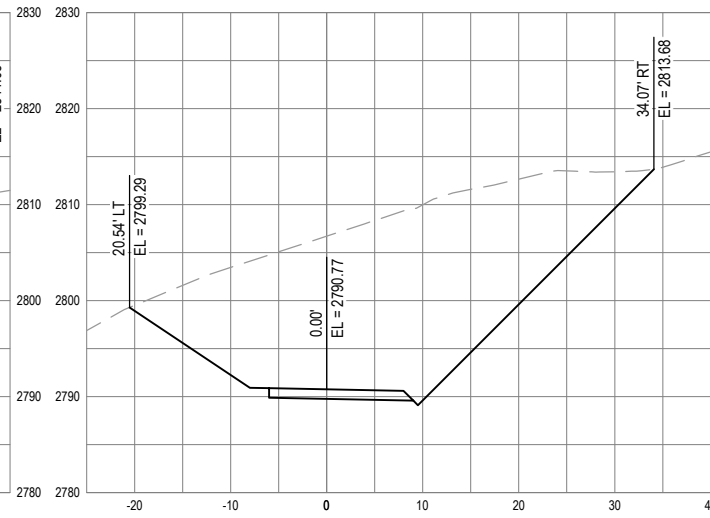
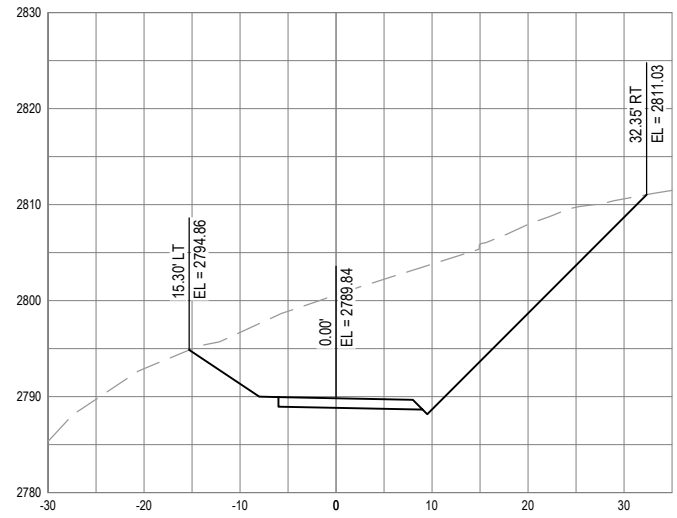
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ROAD NO.:	40010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 4 OF 26

SHEET  
20  
OF  
49





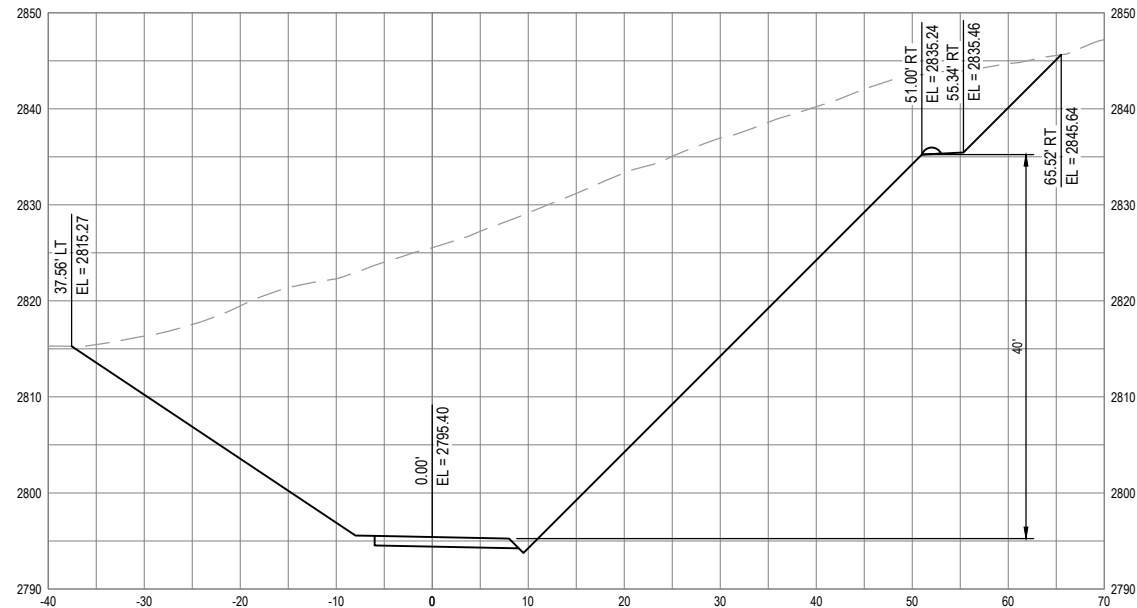
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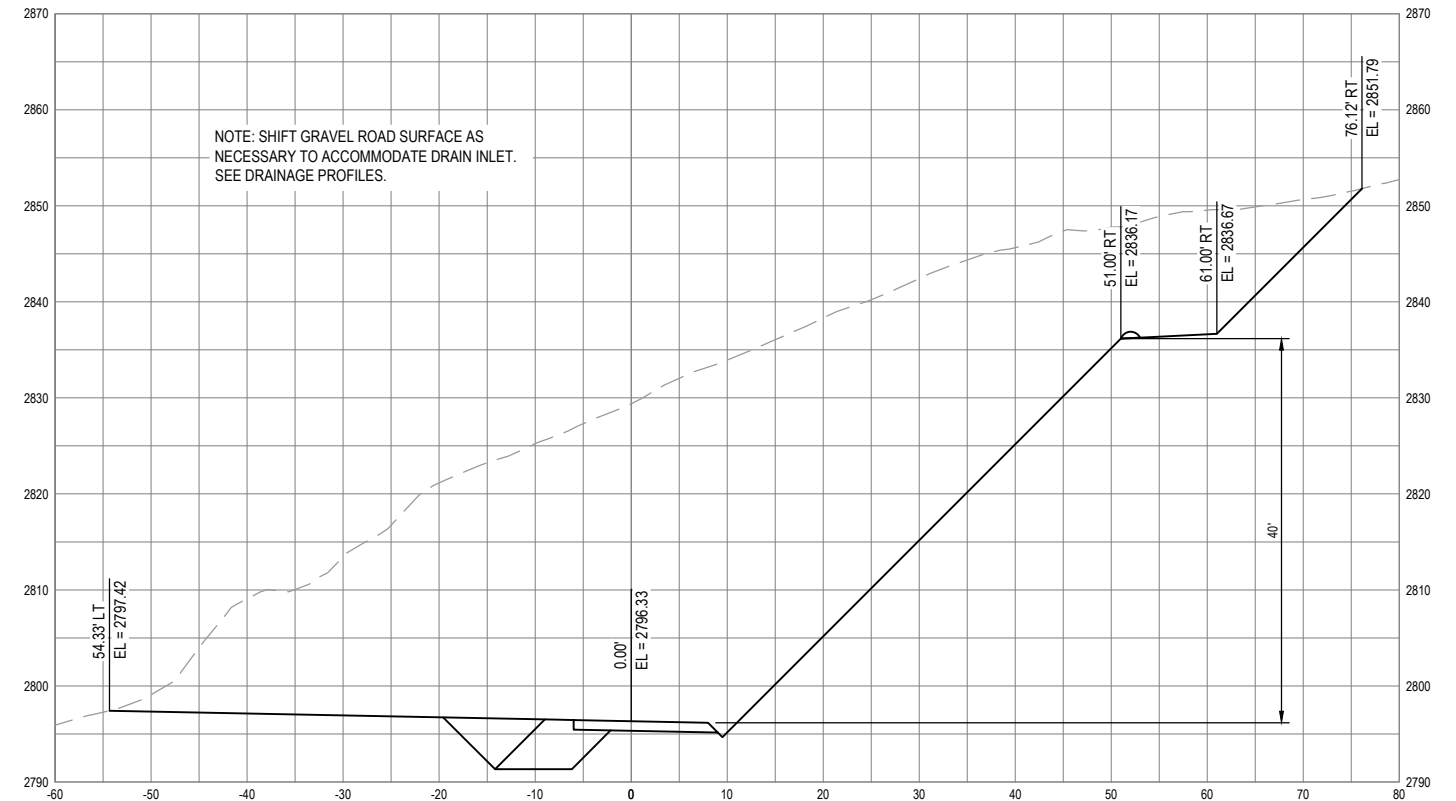
ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION ENGINEERING
ROAD NO: 40010	DESIGNED BY: C.PROVO
MILE POST: 0.50	DRAWN BY: C.PROVO
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 5 OF 26

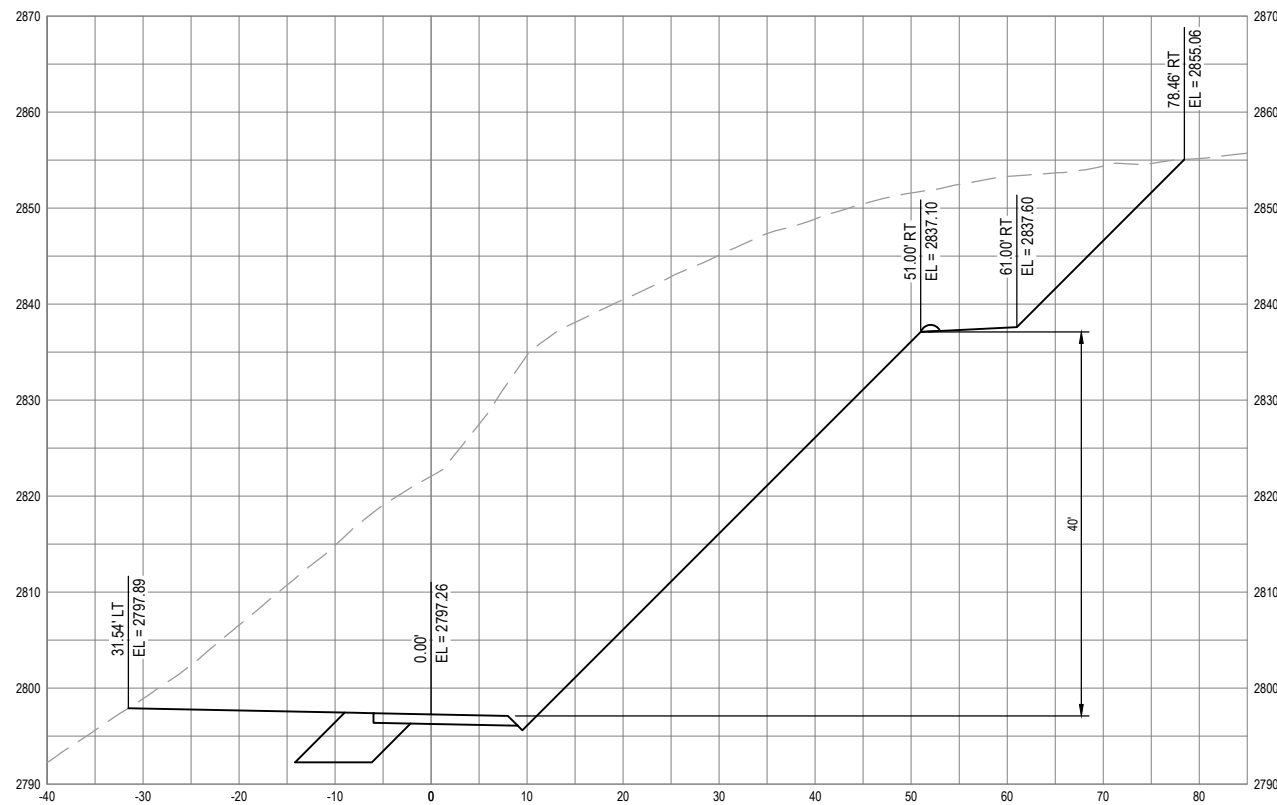
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OF  
49



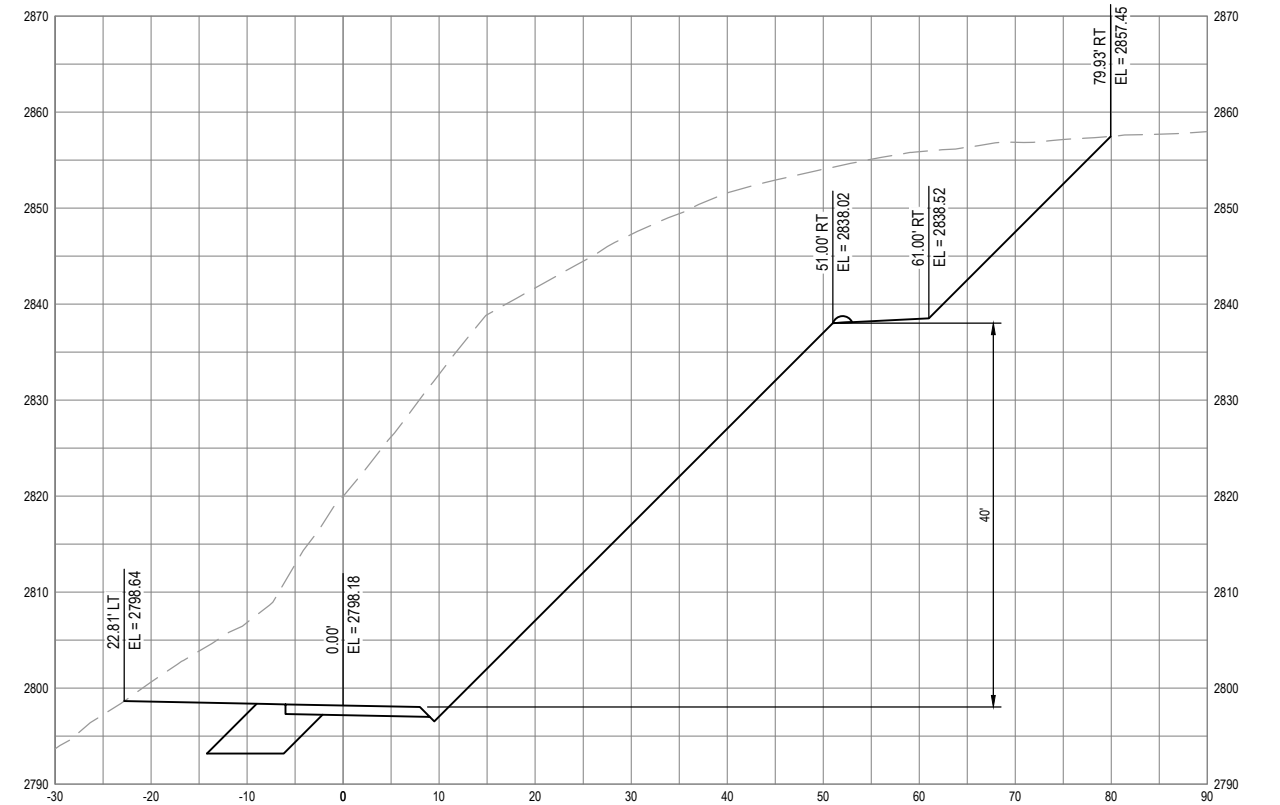
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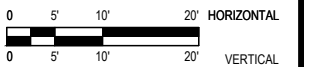
SECTION - STA 77+00



SECTION - STA 77+20



SECTION - STA 77+40





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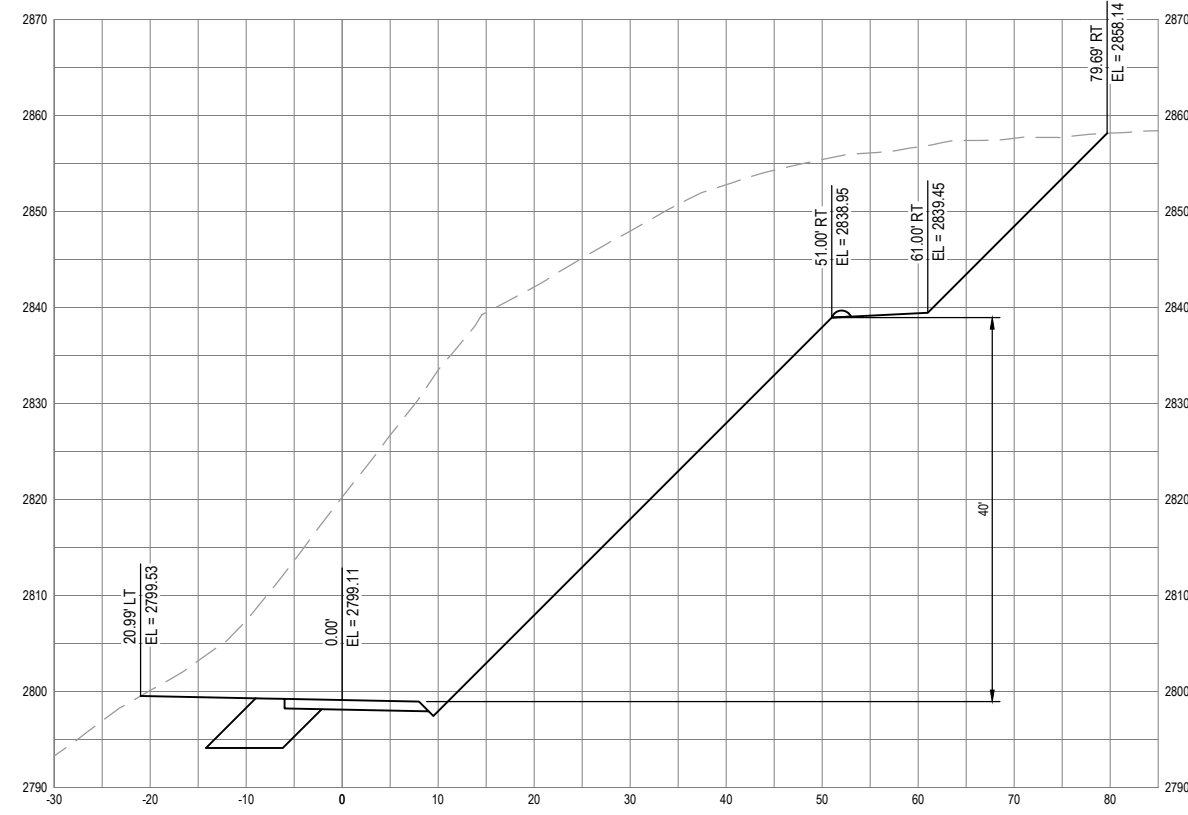
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME:	PANTHER GAP ROAD
ROAD NO.:	40010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

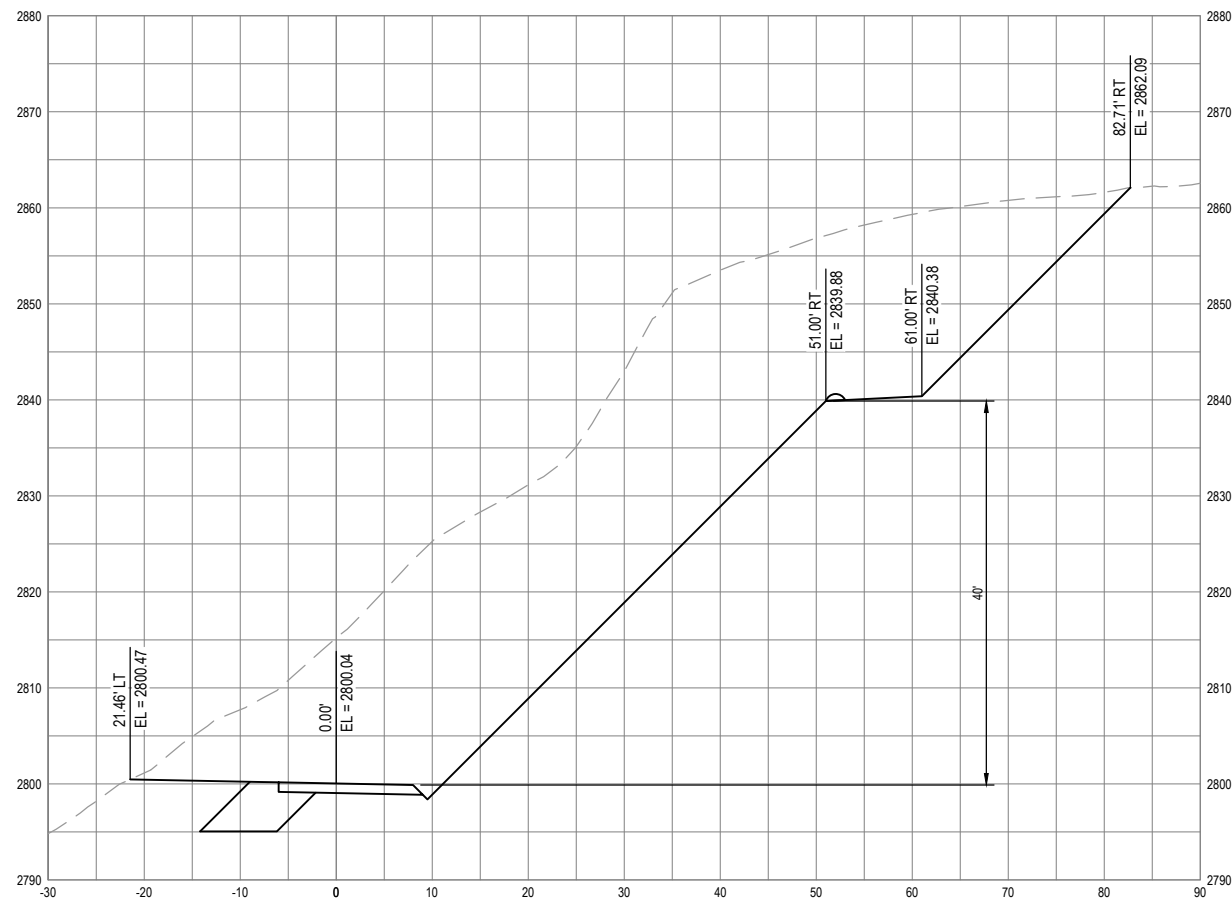
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 6 OF 26

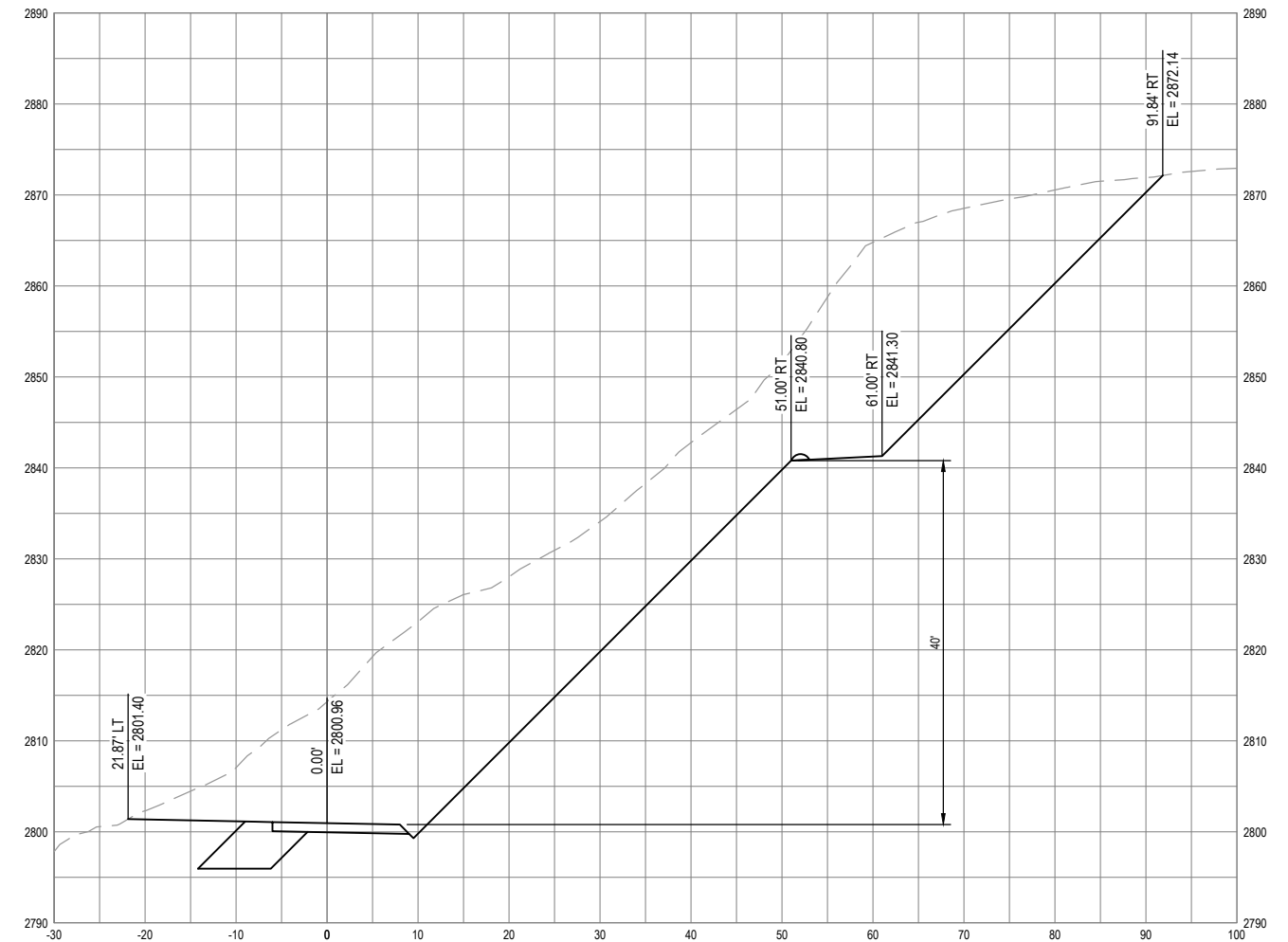
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OF  
49



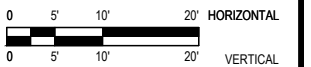
SECTION - STA 77+60



SECTION - STA 77+80



SECTION - STA 78+00





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BAR IS ONE INCH ON ORIGINAL DRAWING

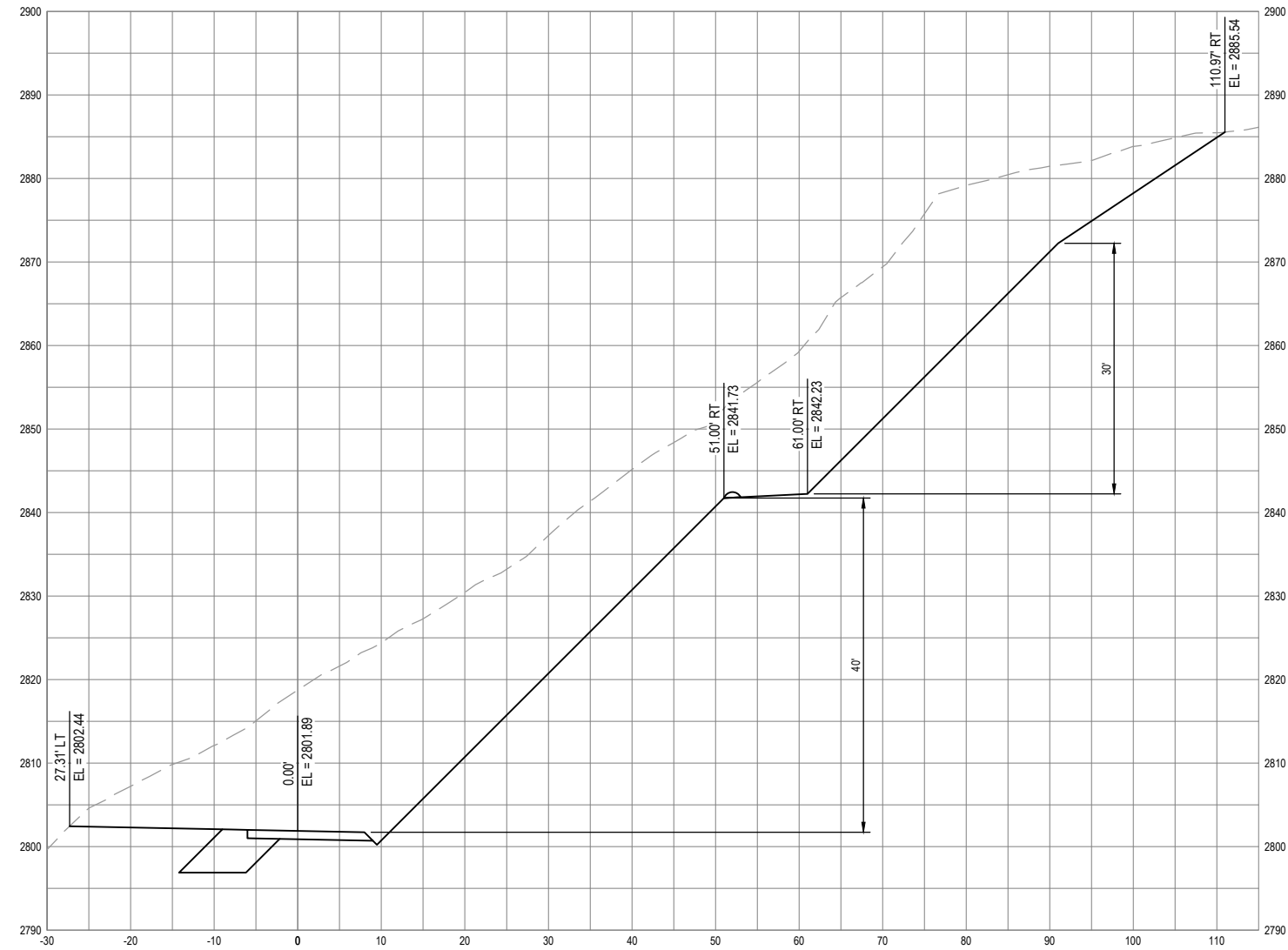
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

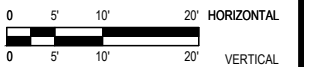
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 7 OF 26

SHEET  
23  
OF  
49



**SECTION - STA 78+20**





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BAR IS ONE INCH ON ORIGINAL DRAWING

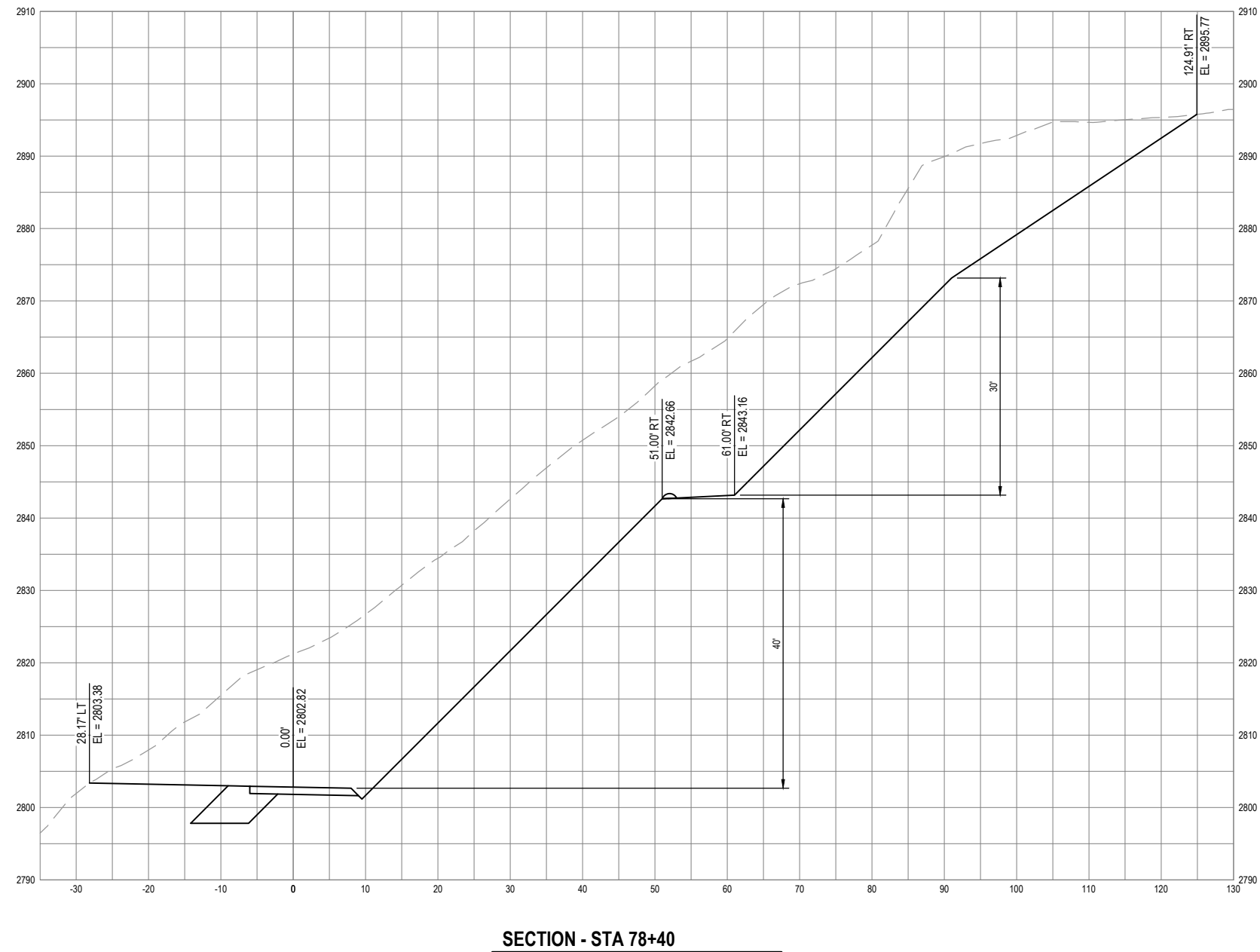
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 8 OF 26

SHEET  
24  
OF  
49







GHD Inc.  
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BAR IS ONE INCH ON ORIGINAL DRAWING

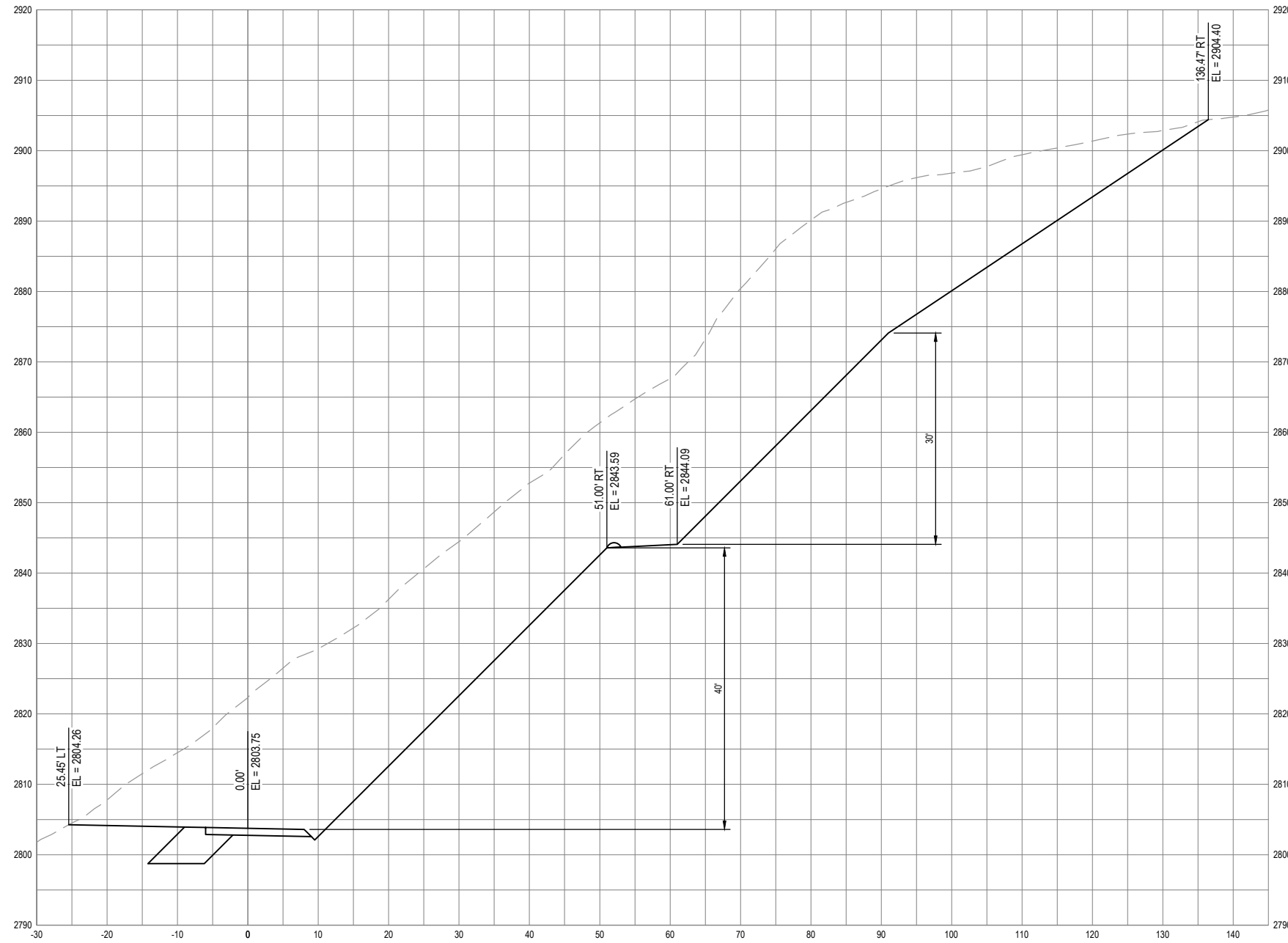
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

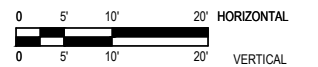
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 9 OF 26

SHEET  
25  
OF  
49



**SECTION - STA 78+60**





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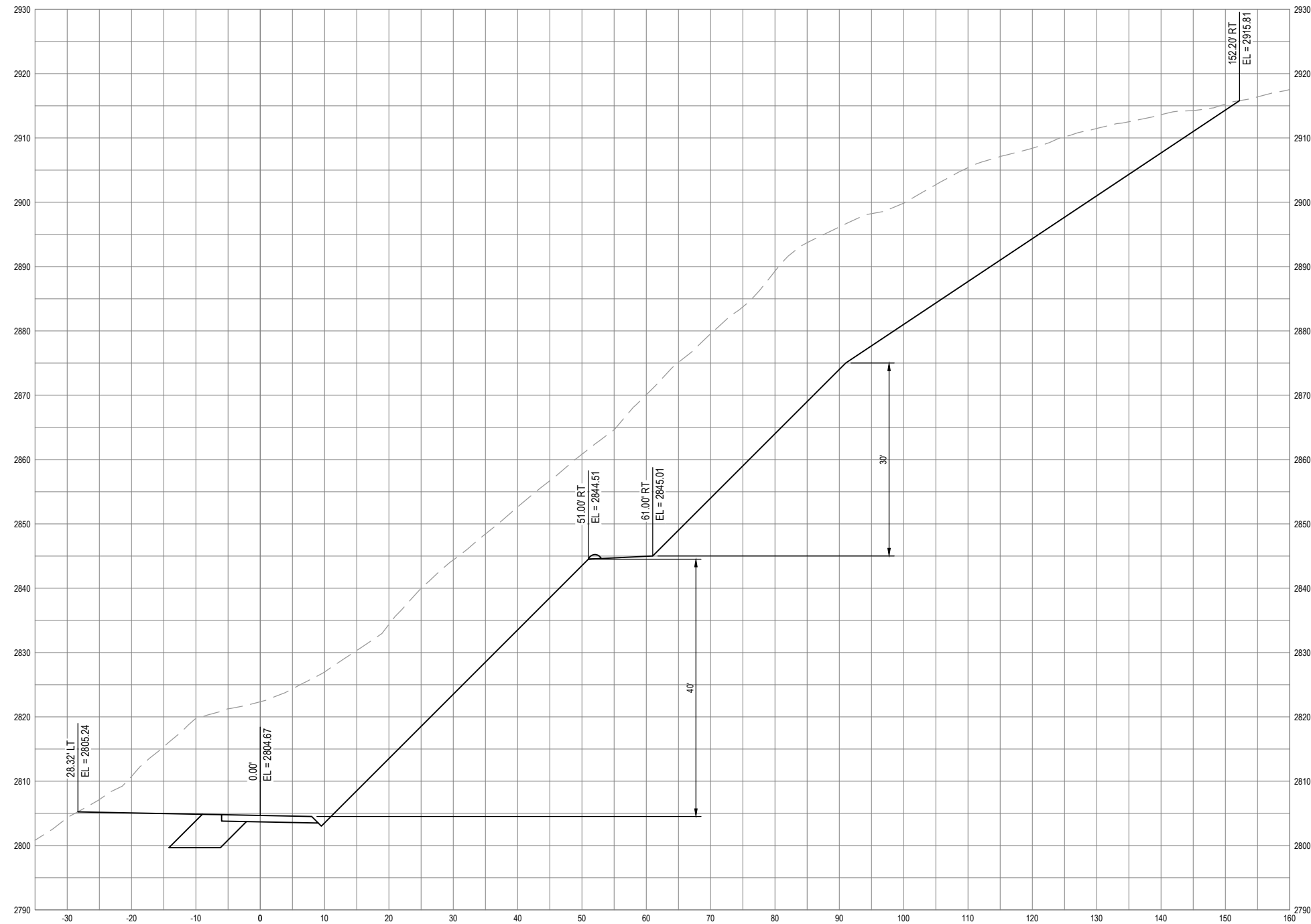
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ROAD NAME:	PANTHER GAP ROAD
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MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

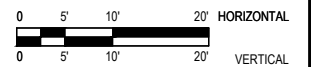
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 10 OF 26

SHEET  
26  
OF  
49



**SECTION - STA 78+80**





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BAR IS ONE INCH ON ORIGINAL DRAWING

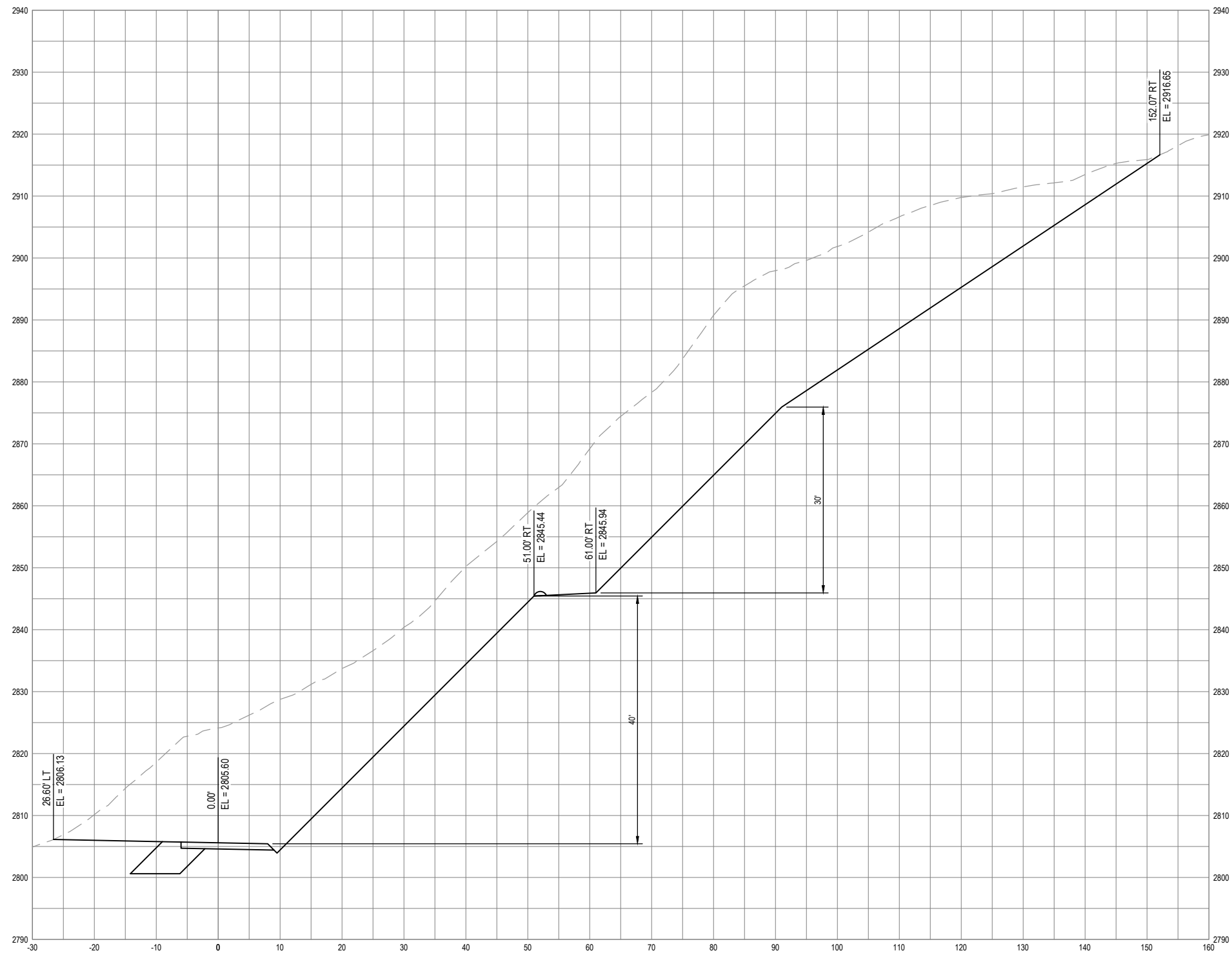
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PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

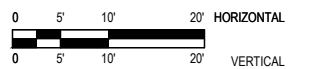
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 11 OF 26

SHEET  
27  
OF  
49



**SECTION - STA 79+00**





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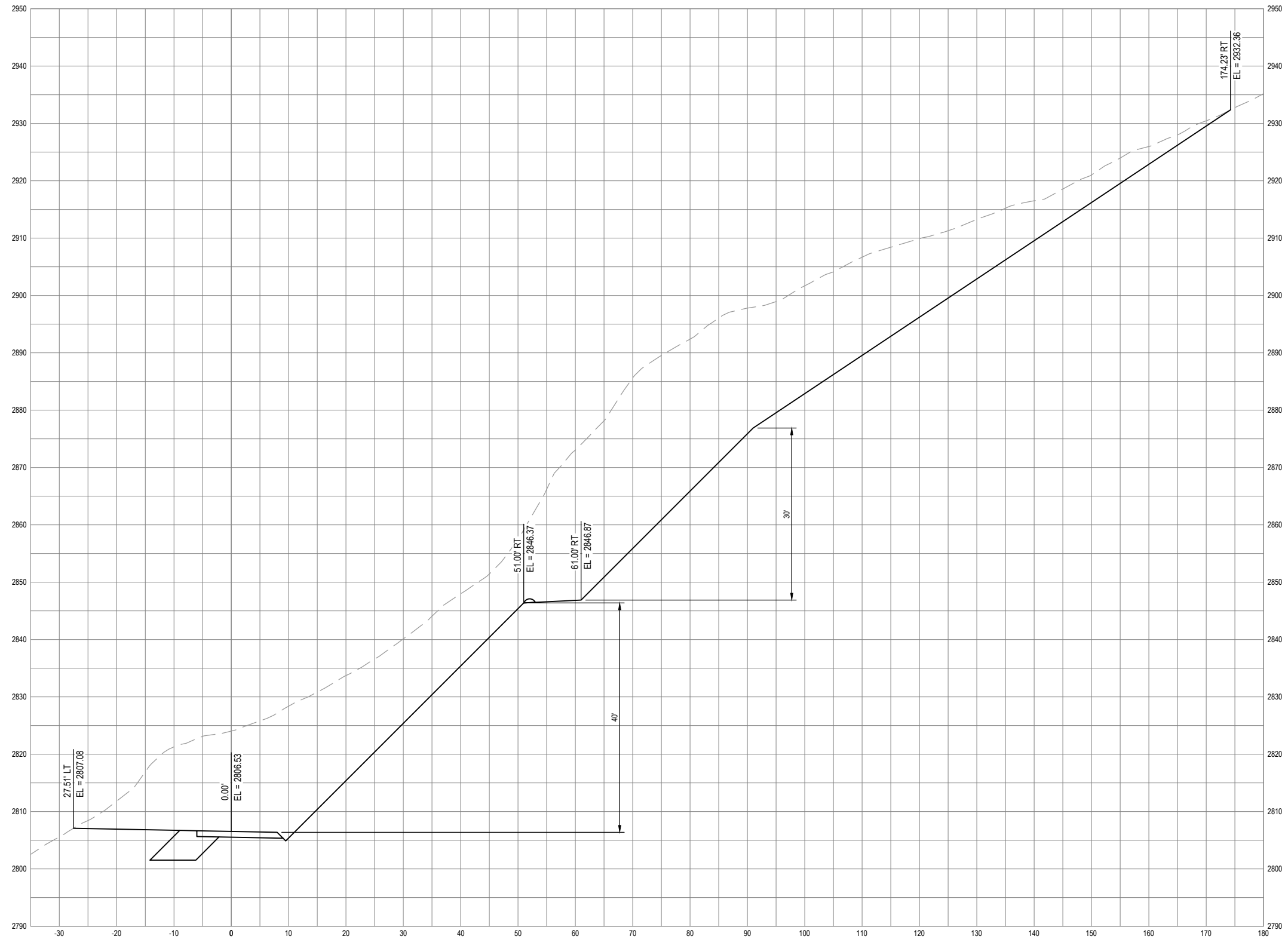
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PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

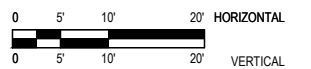
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 12 OF 26

SHEET  
28  
OF  
49



SECTION - STA 79+20





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BAR IS ONE INCH ON ORIGINAL DRAWING

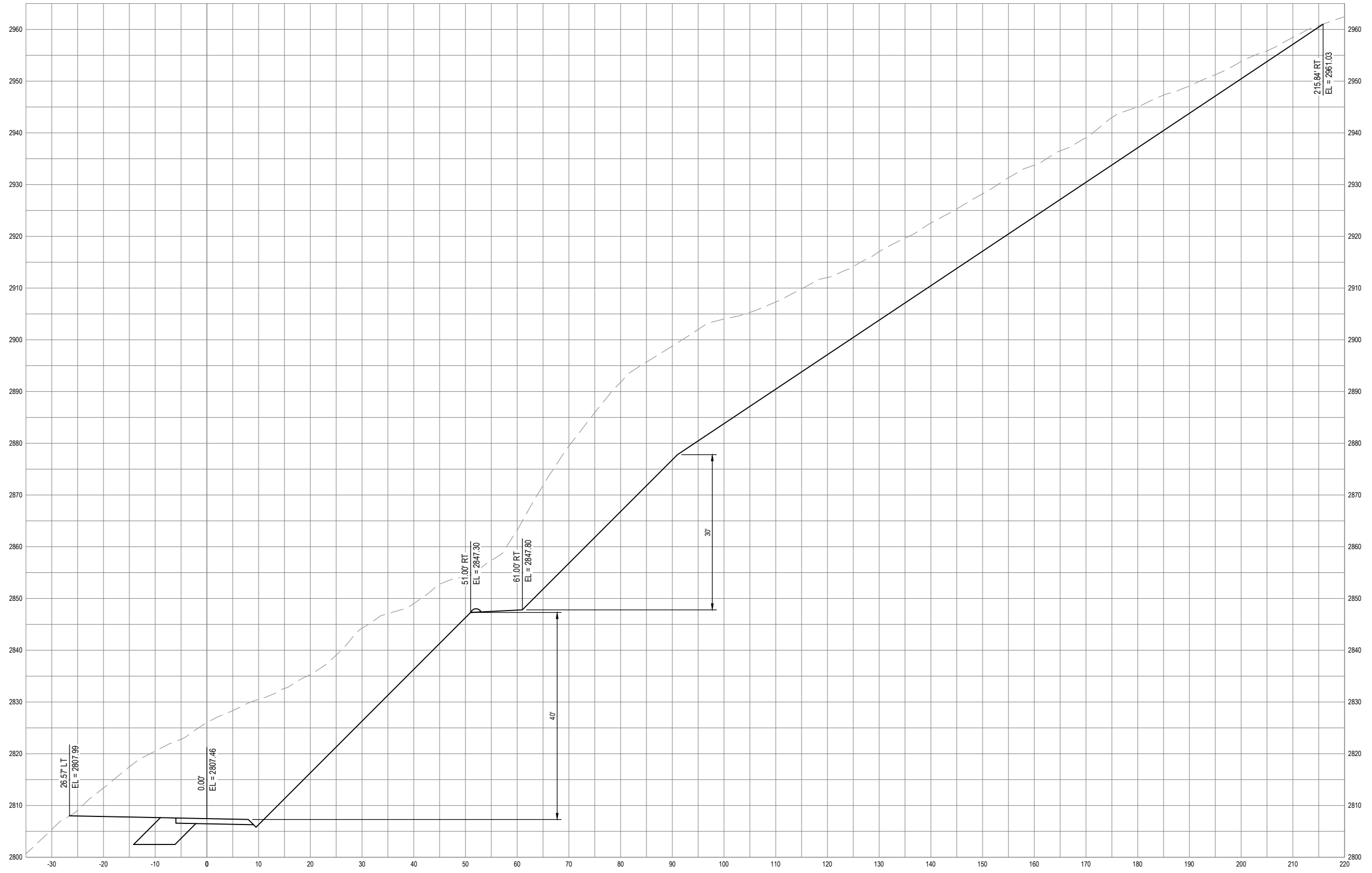
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 13 OF 26

SHEET  
29  
OF  
49



**SECTION - STA 79+40**





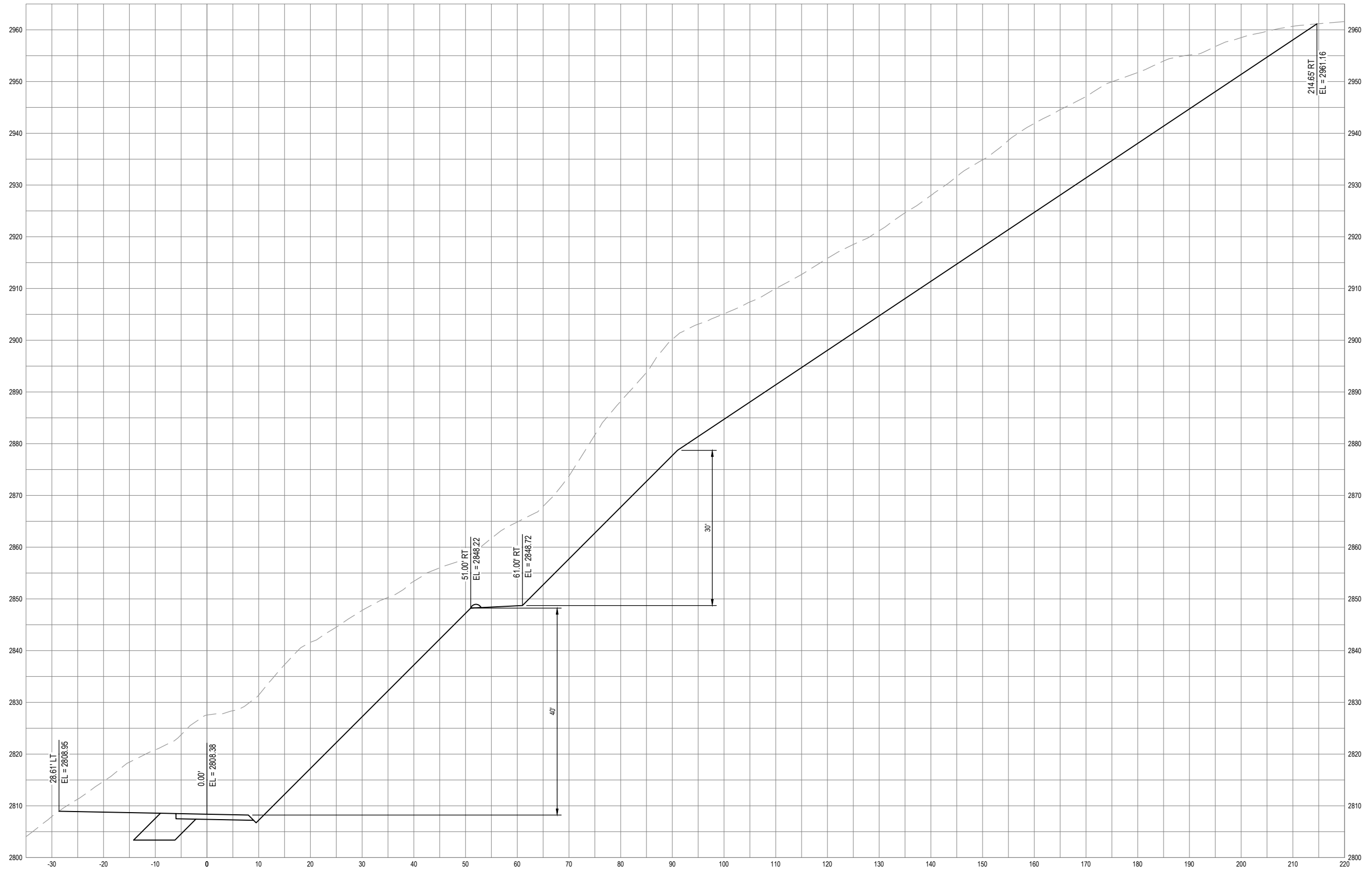
GHD Inc.  
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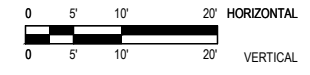
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	ROAD NO: 40010	ENGINEERING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	MILE POST: 0.50	DESIGNED BY: C.PROVO
	PROJECT NO.: FEMA 4301-CA-DR PW-909	DRAWN BY: C.PROVO
	CONTRACT NO.: 217387	REVIEWED BY: J. WOLF
	PLOT DATE: 05/18/2022	APPROVED BY: J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 14 OF 26

SHEET  
30  
OF  
49



SECTION - STA 79+60





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BAR IS ONE INCH ON ORIGINAL DRAWING

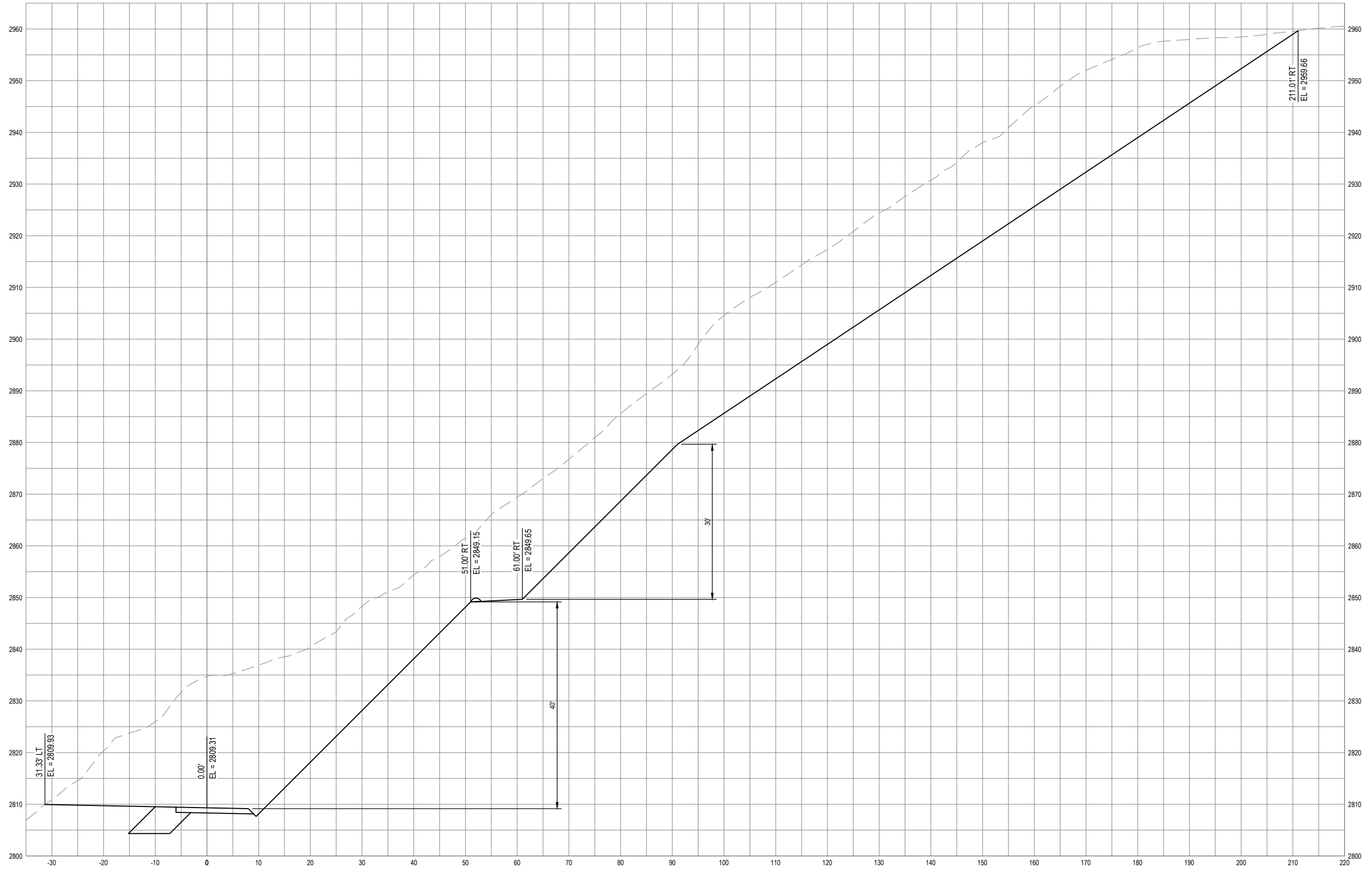
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PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

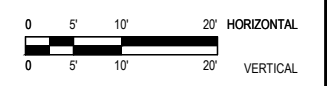
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 15 OF 26

SHEET  
31  
OF  
49



SECTION - STA 79+80





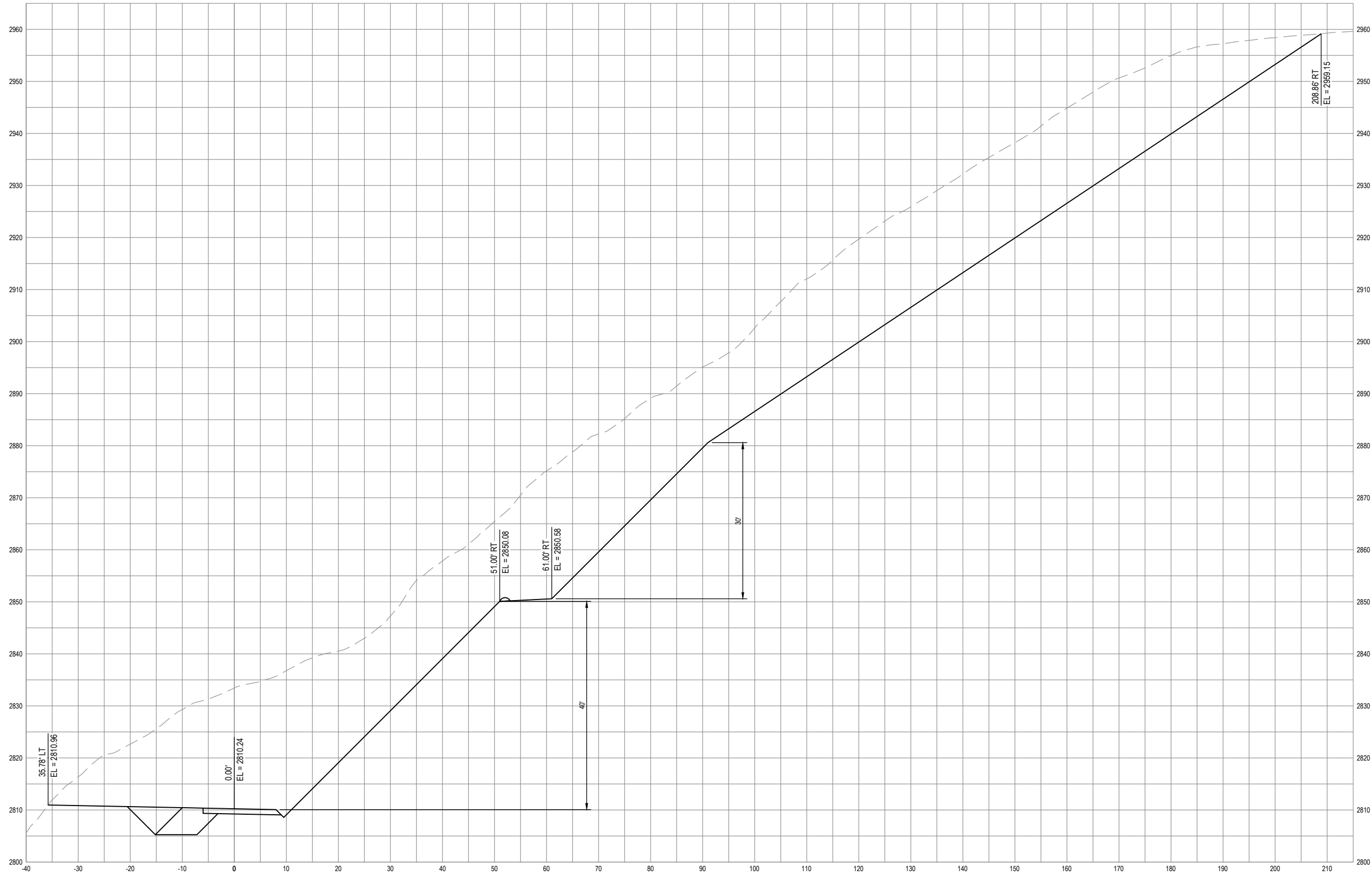
GHD Inc.  
718 Third Street  
Eureka California 95501 USA  
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com



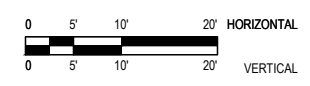
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	ROAD NO: 4D010	ENGINEERING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	MILE POST: 0.50	DESIGNED BY: C.PROVO
	PROJECT NO.: FEMA 4301-CA-DR PW-909	DRAWN BY: C.PROVO
	CONTRACT NO.: 217387	REVIEWED BY: J. WOLF
	PLOT DATE: 05/18/2022	APPROVED BY: J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 16 OF 26

SHEET  
32  
OF  
49



SECTION - STA 80+00







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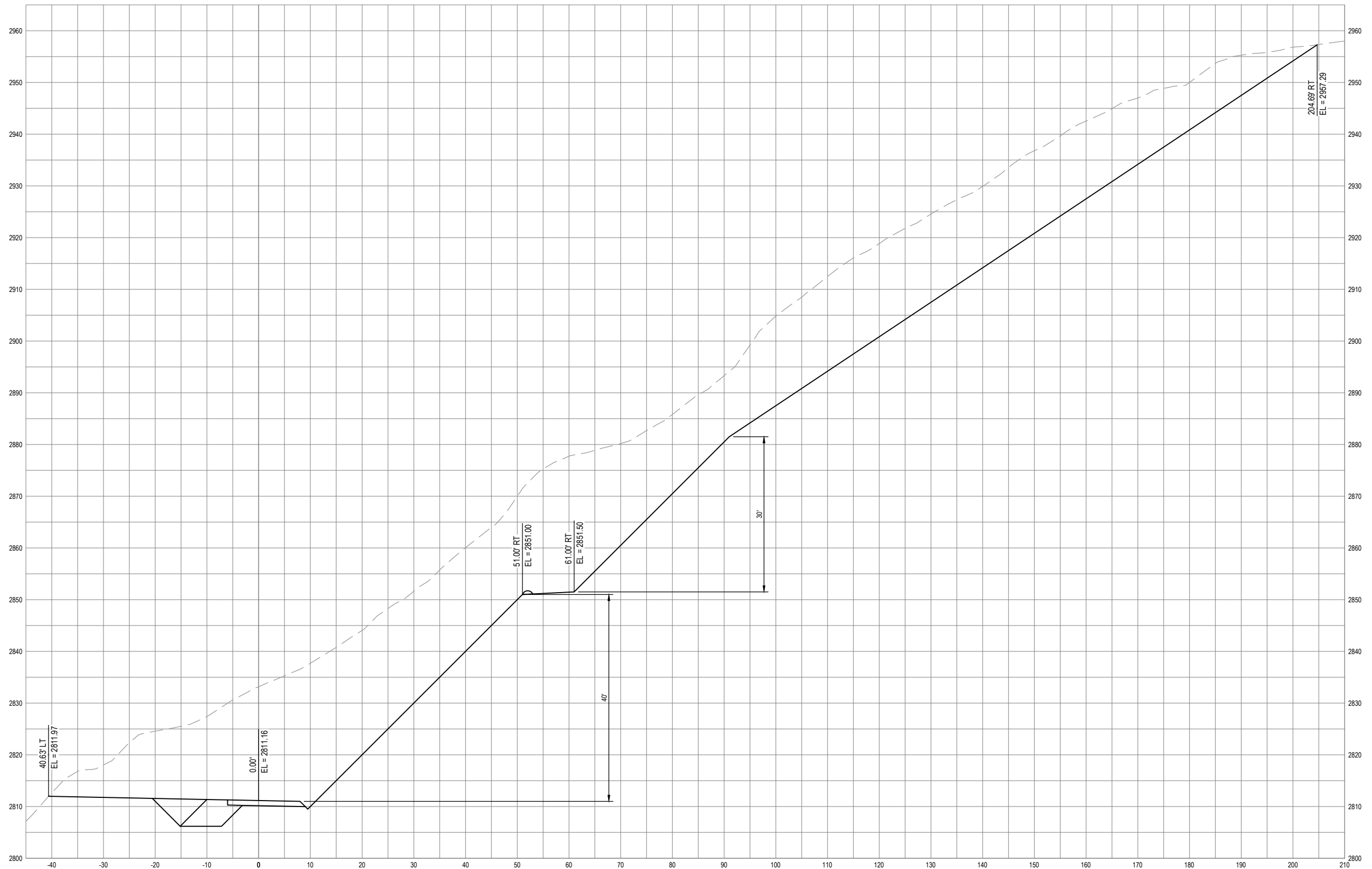
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

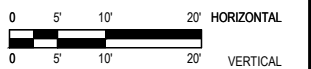
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 17 OF 26

SHEET  
33  
OF  
49



SECTION - STA 80+20





GHD Inc.  
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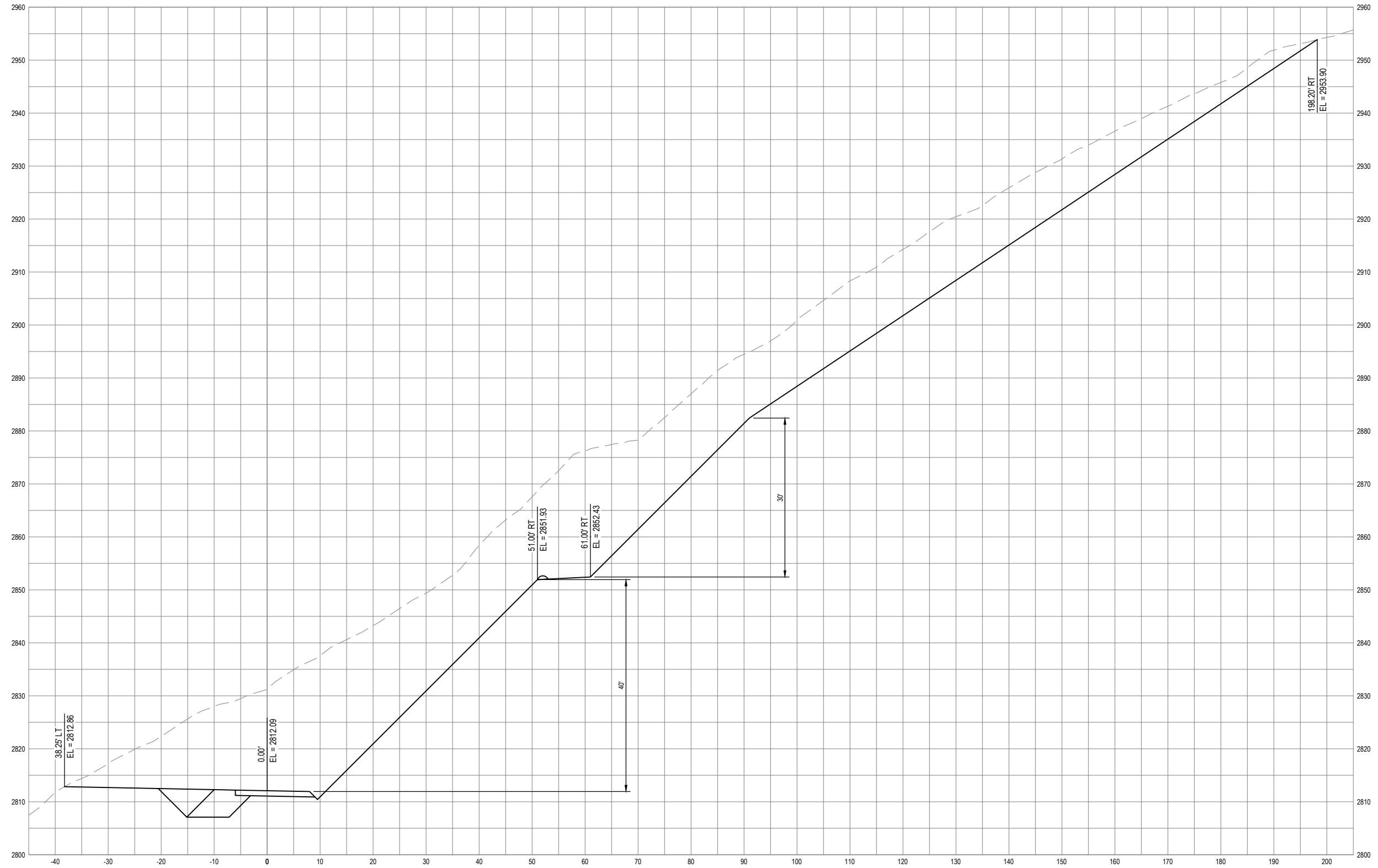
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

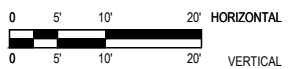
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 18 OF 26

SHEET  
34  
OF  
49



**SECTION - STA 80+40**





GHD Inc.  
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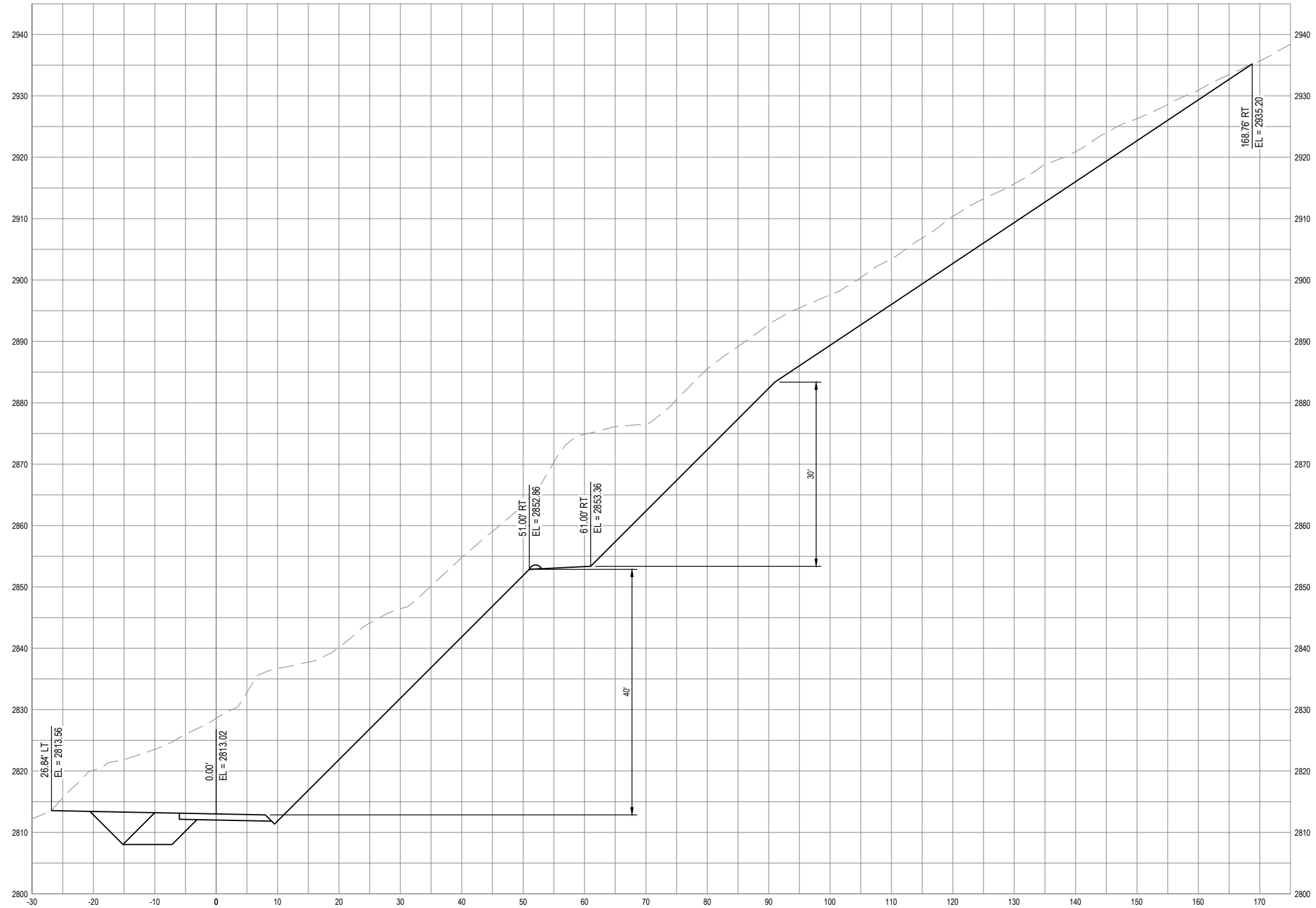
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ROAD NAME:	PANTHER GAP ROAD
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PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

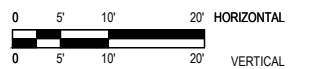
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 19 OF 26

SHEET  
35  
OF  
49



SECTION - STA 80+60





GHD Inc.  
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BAR IS ONE INCH ON ORIGINAL DRAWING

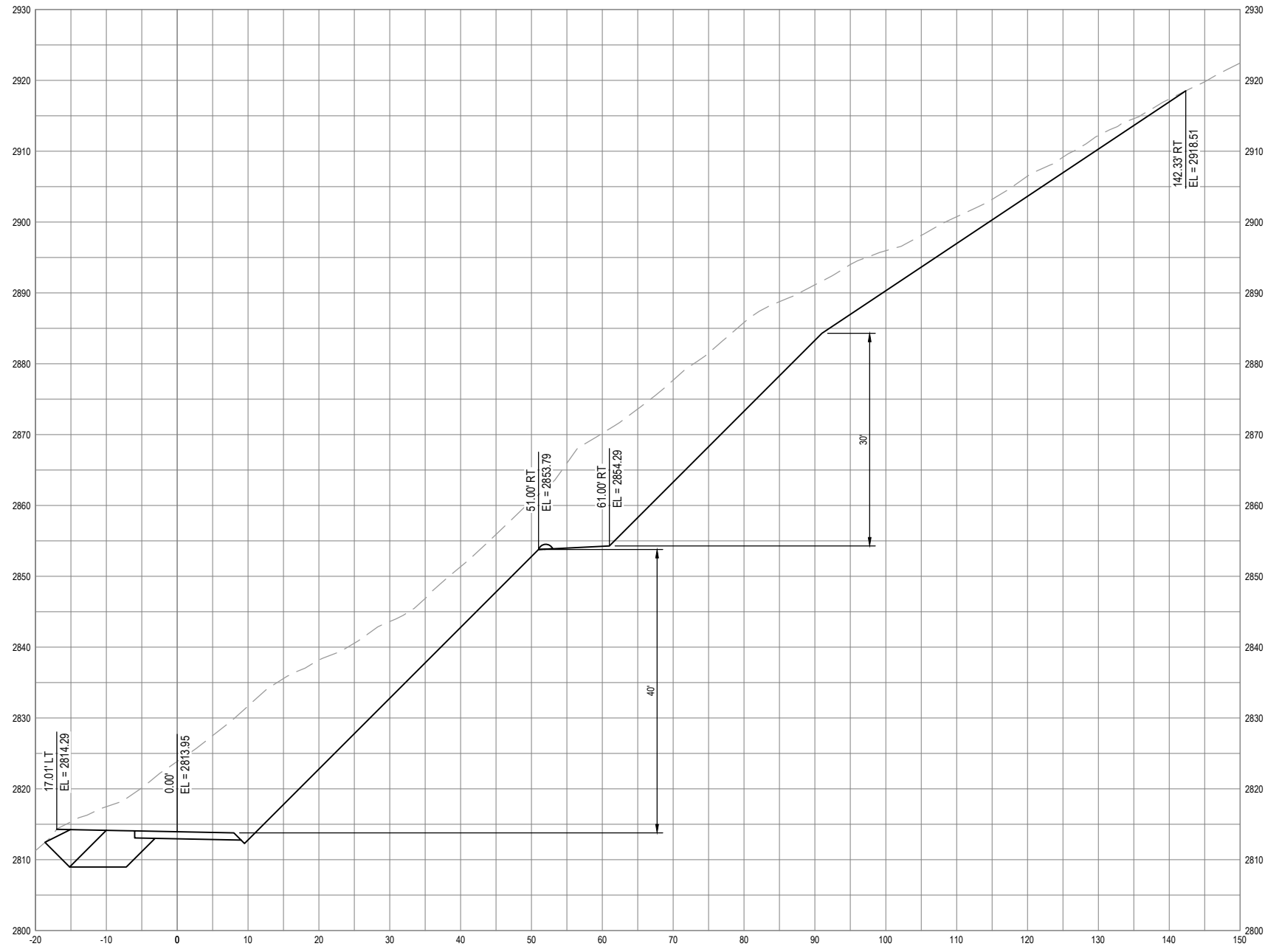
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME:	PANTHER GAP ROAD
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PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

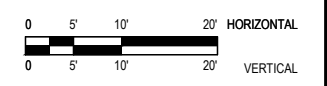
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 20 OF 26

SHEET  
36  
OF  
49



**SECTION - STA 80+80**





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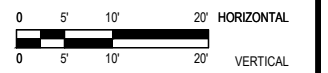
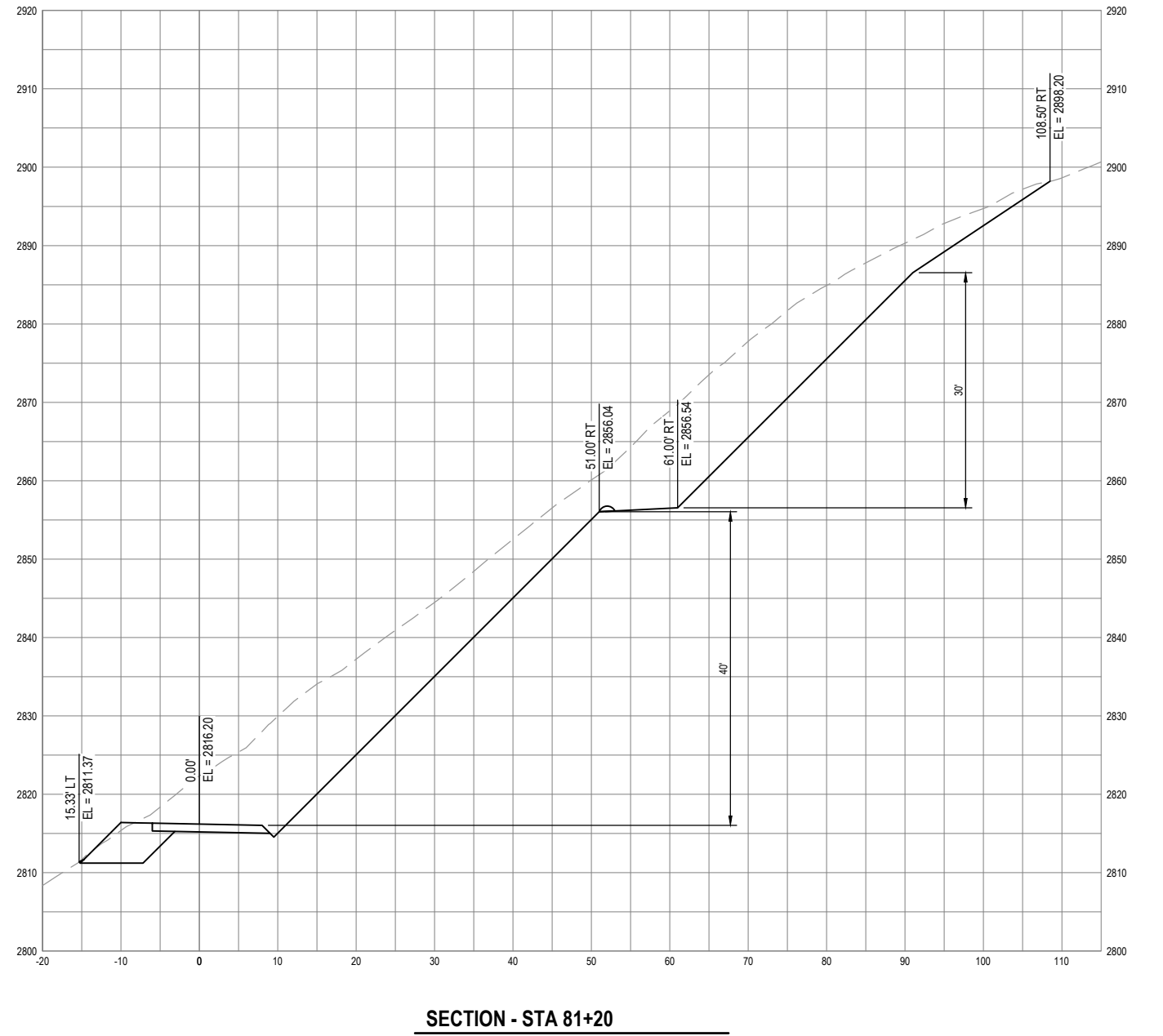
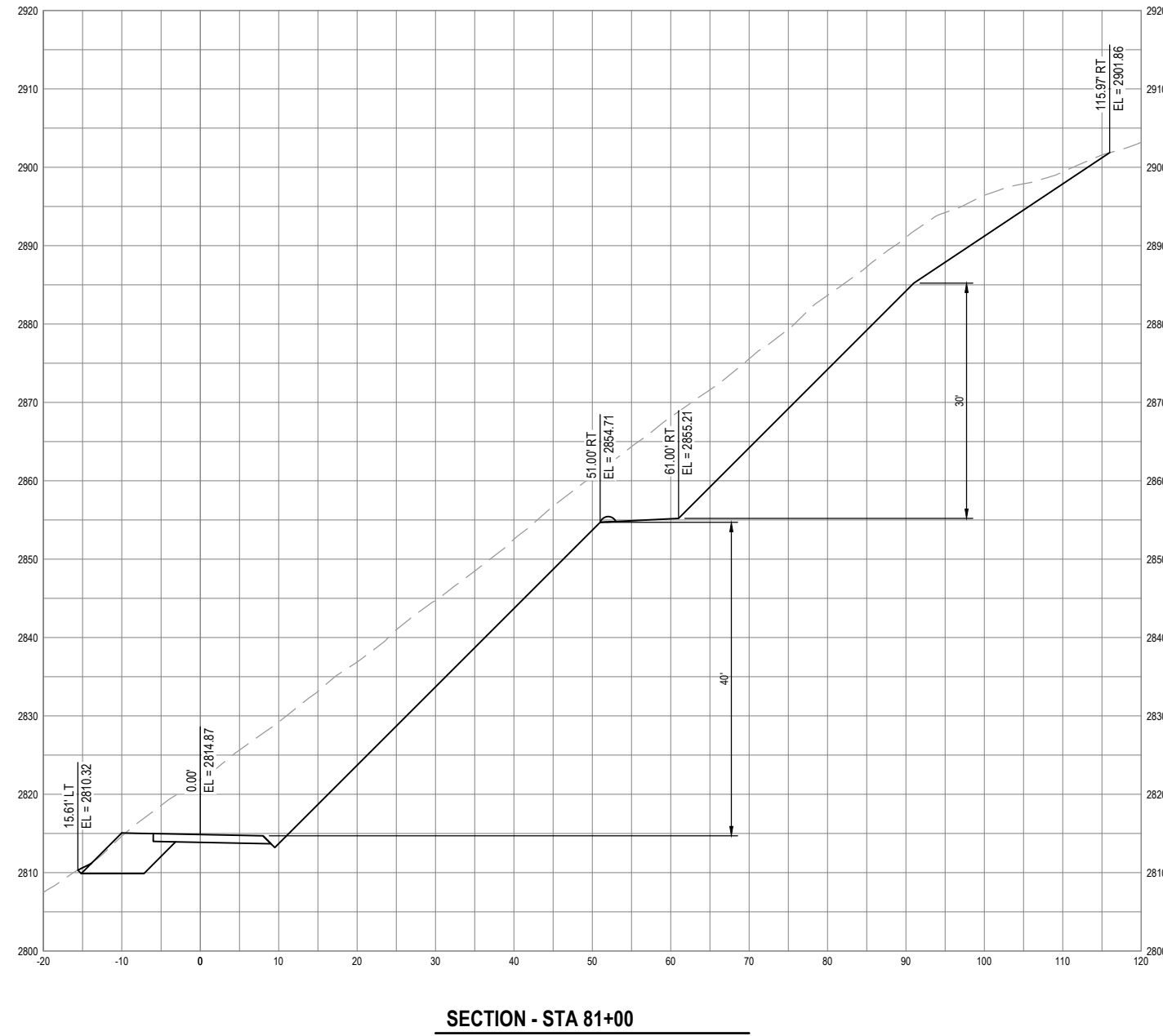


ROAD NAME: PANTHER GAP ROAD  
ROAD NO: 4D010  
MILE POST: 0.50  
PROJECT NO.: FEMA 4301-CA-DR PW-909  
CONTRACT NO.: 217387  
PLOT DATE: 05/18/2022

DESIGN SECTION  
ENGINEERING  
DESIGNED BY: C.PROVO  
DRAWN BY: C.PROVO  
REVIEWED BY: J. WOLF  
APPROVED BY: J. WOLF

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50  
CROSS SECTIONS - 21 OF 26

SHEET  
37  
OF  
49





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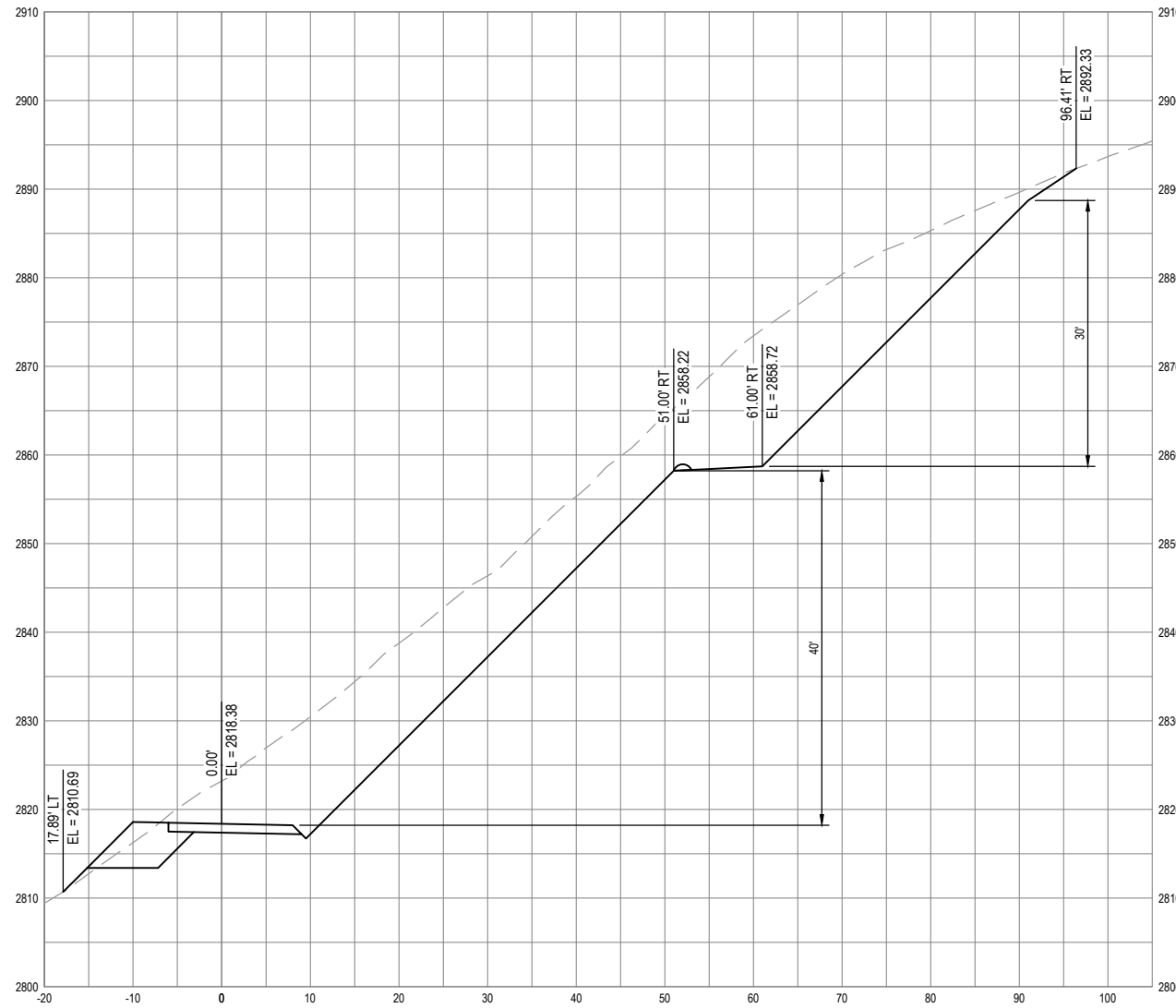
BAR IS ONE INCH ON ORIGINAL DRAWING  
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

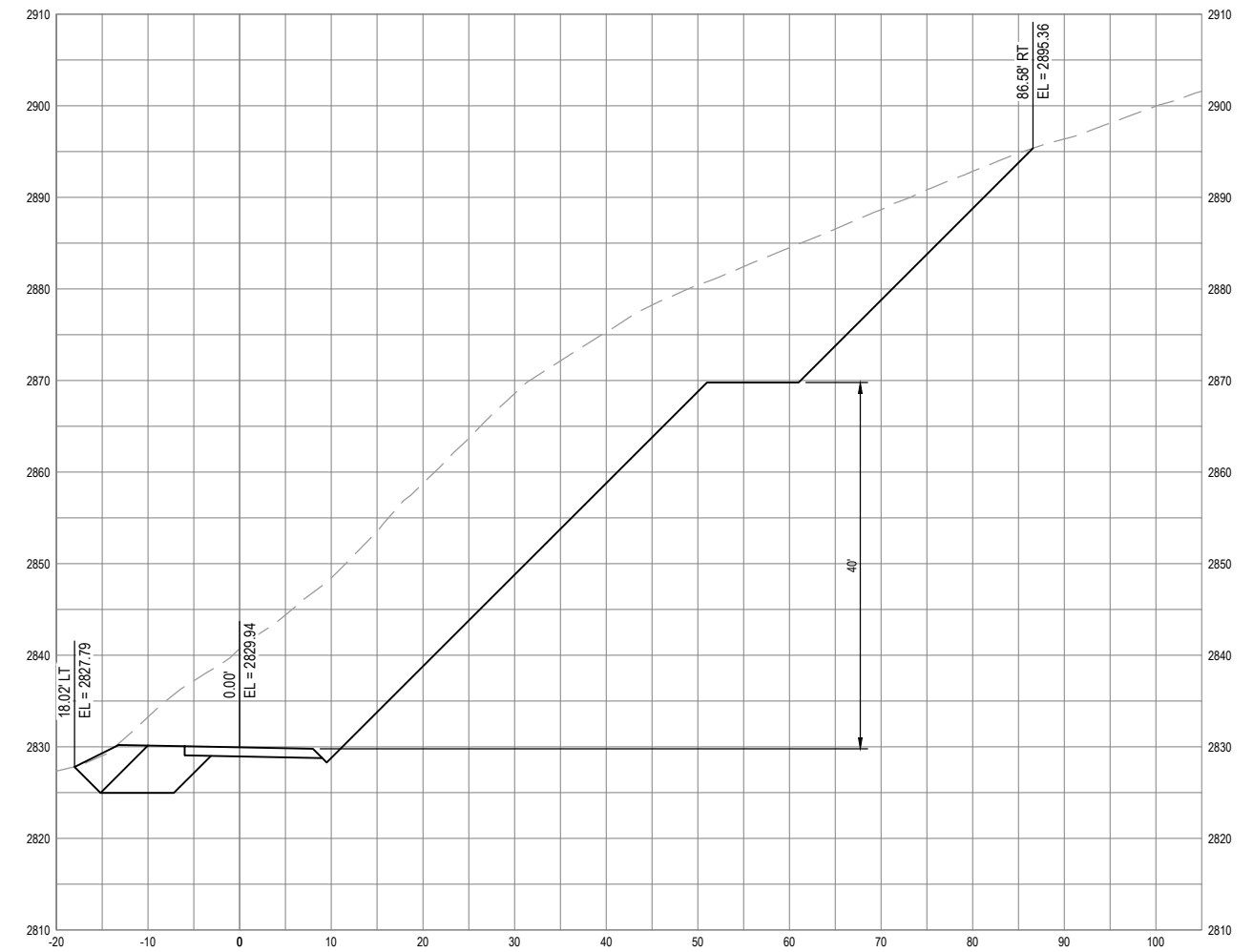
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
CROSS SECTIONS - 22 OF 26

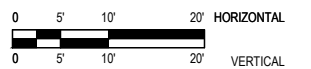
SHEET  
38  
OF  
49



SECTION - STA 81+40



SECTION - STA 81+60





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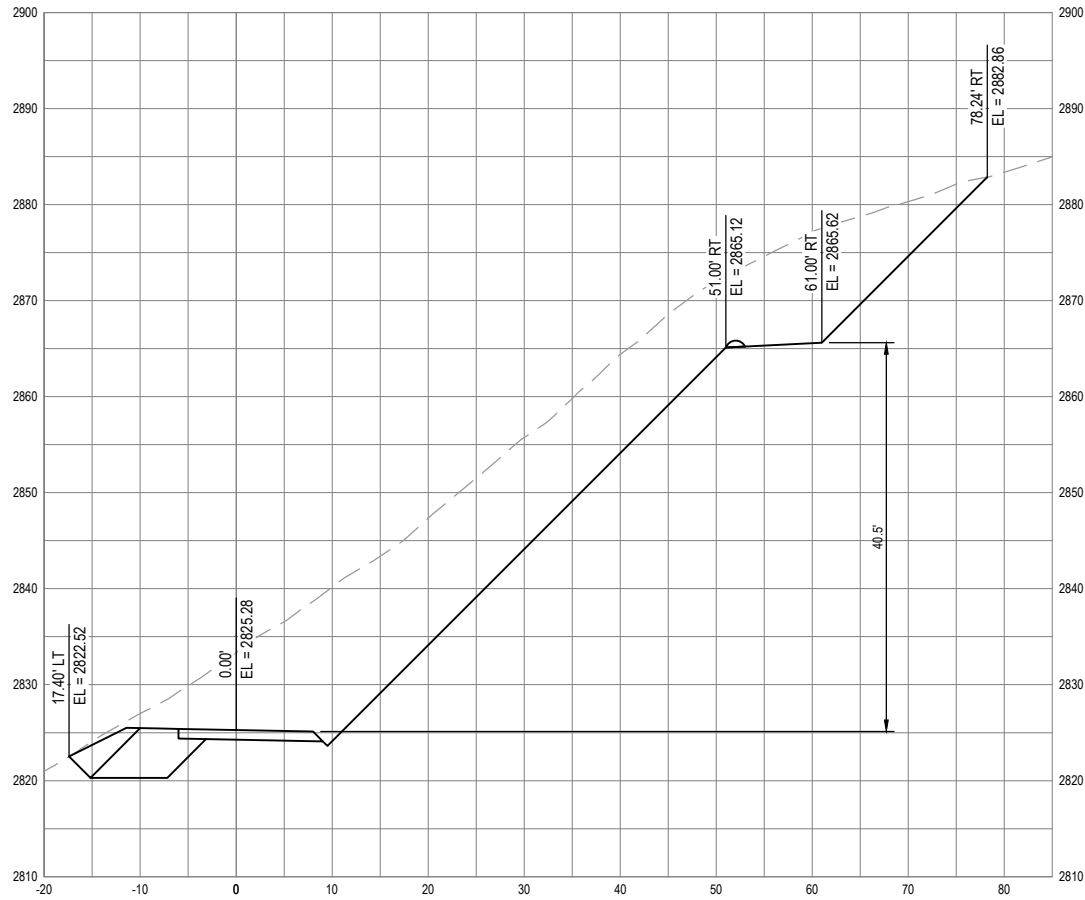


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PROJECT NO.: FEMA 4301-CA-DR PW-909  
CONTRACT NO.: 217387  
PLOT DATE: 05/18/2022

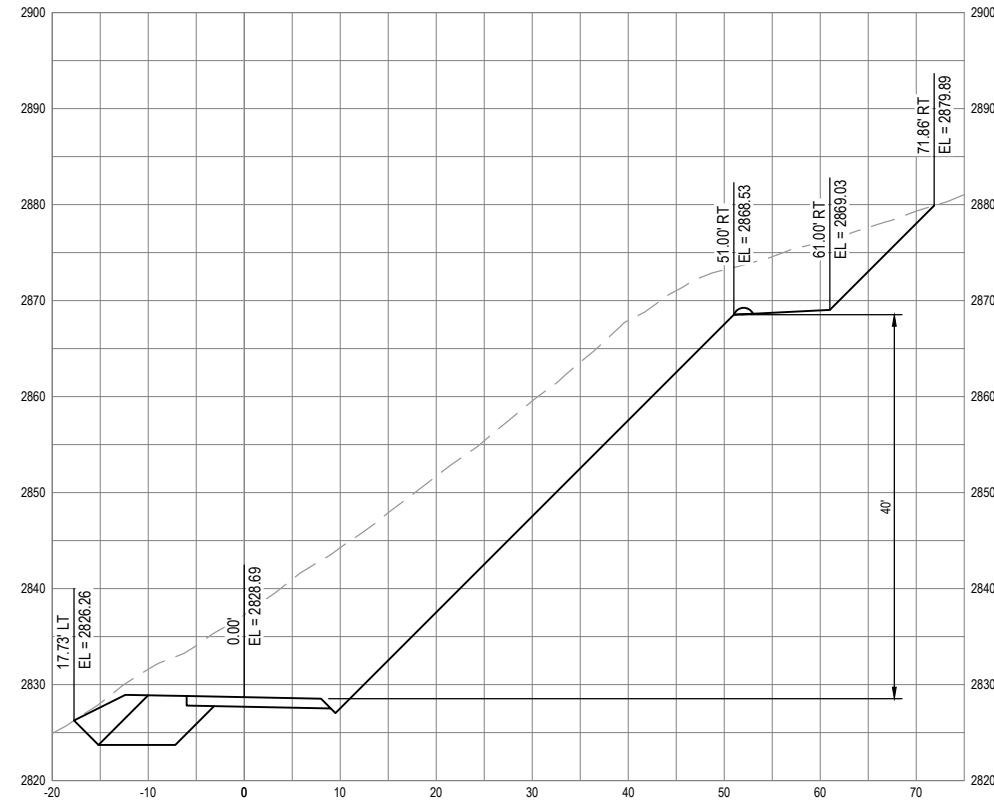
DESIGN SECTION  
ENGINEERING  
DESIGNED BY: C.PROVO  
DRAWN BY: C.PROVO  
REVIEWED BY: J. WOLF  
APPROVED BY: J. WOLF

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
**STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50**  
CROSS SECTIONS - 23 OF 26

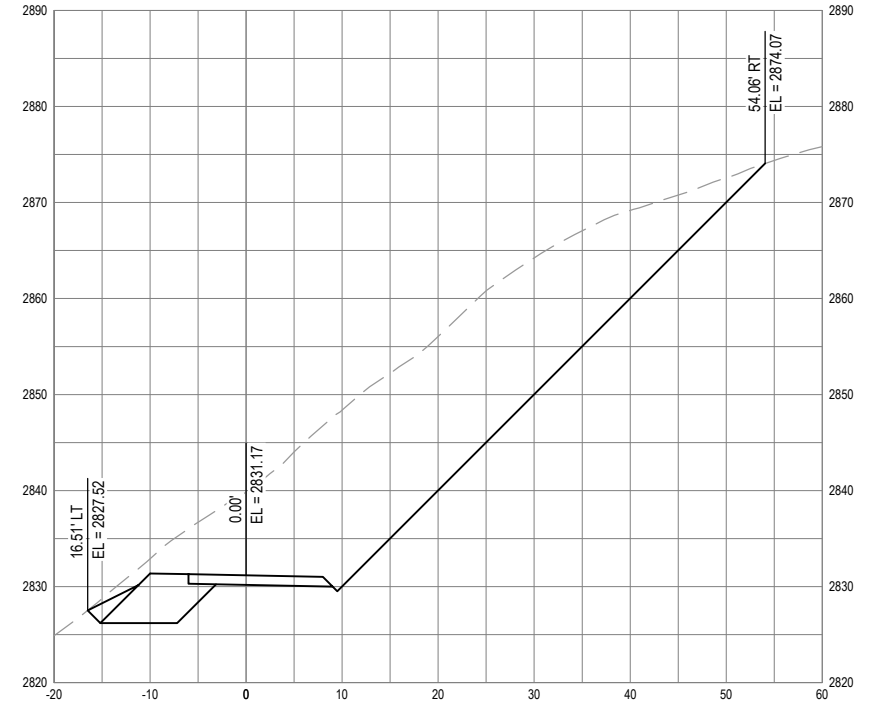
SHEET  
39  
OF  
49



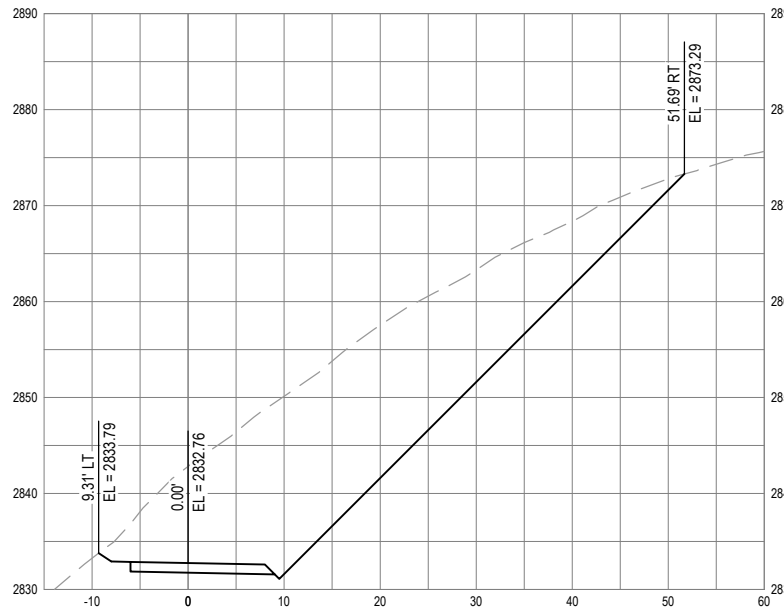
SECTION - STA 81+80



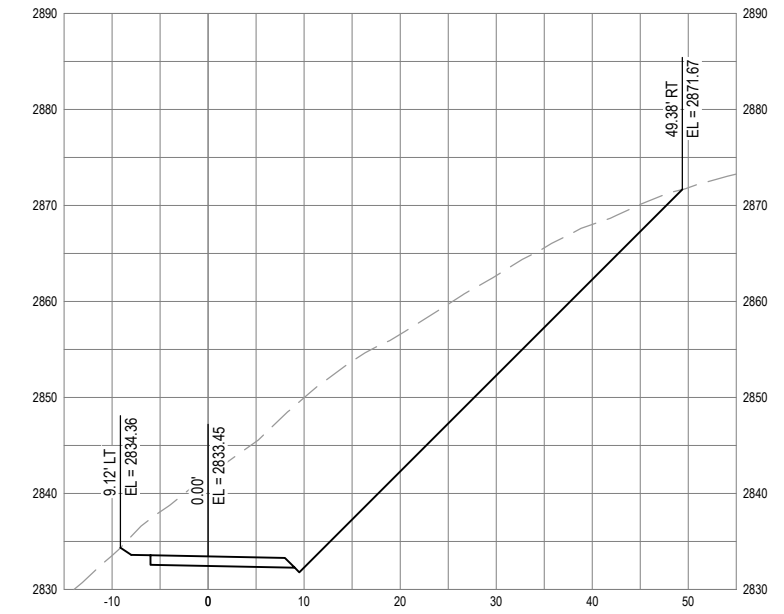
SECTION - STA 82+00



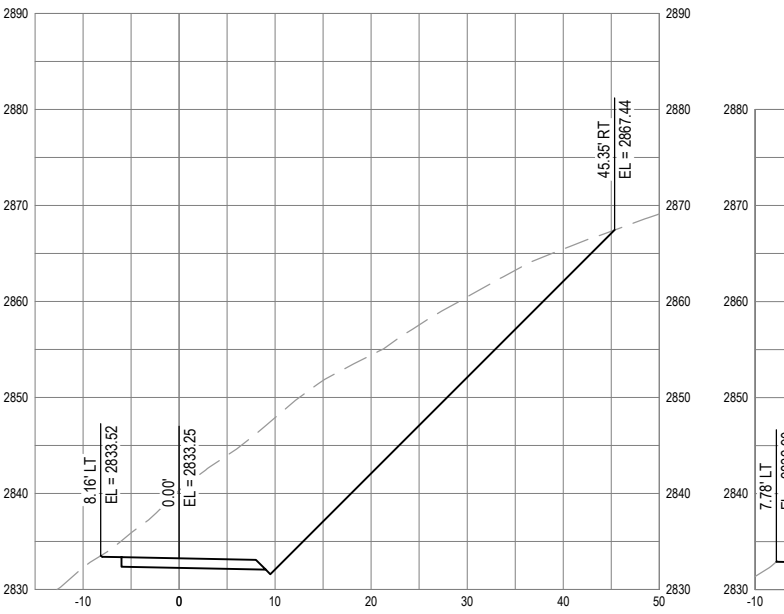
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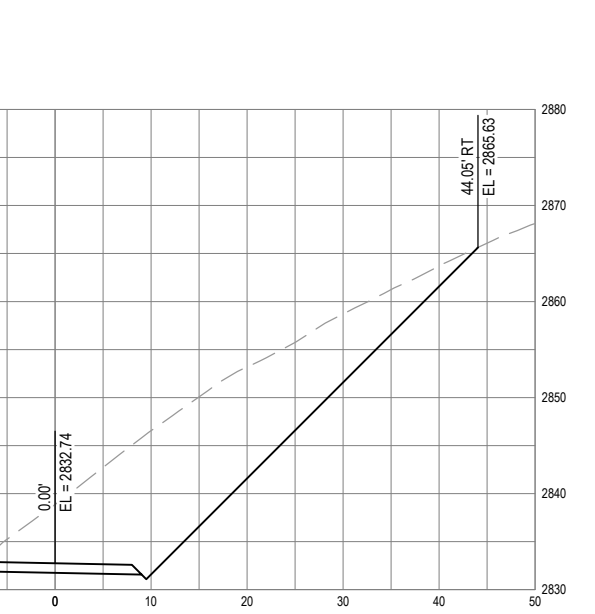
SECTION - STA 82+40



SECTION - STA 82+60



SECTION - STA 82+80



SECTION - STA 83+00





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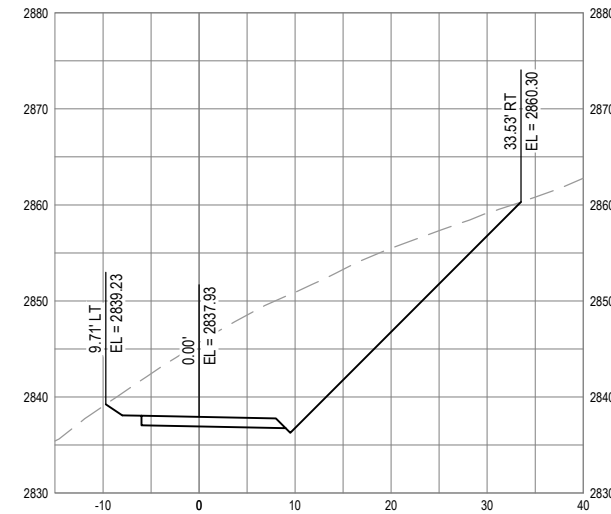
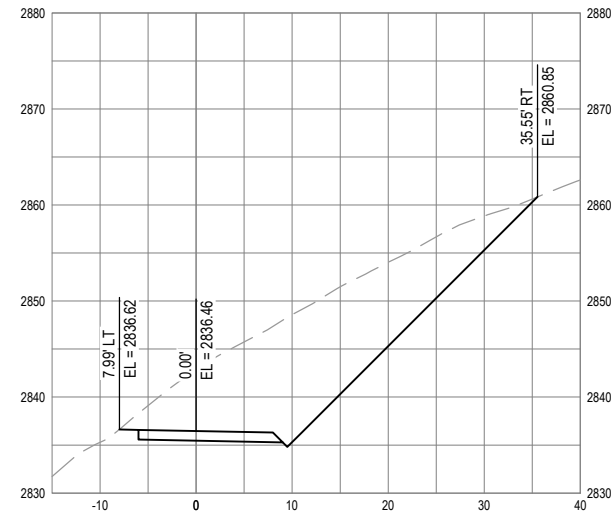
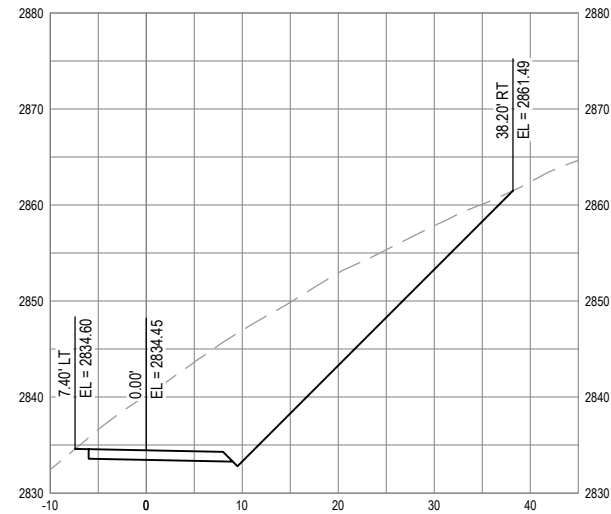
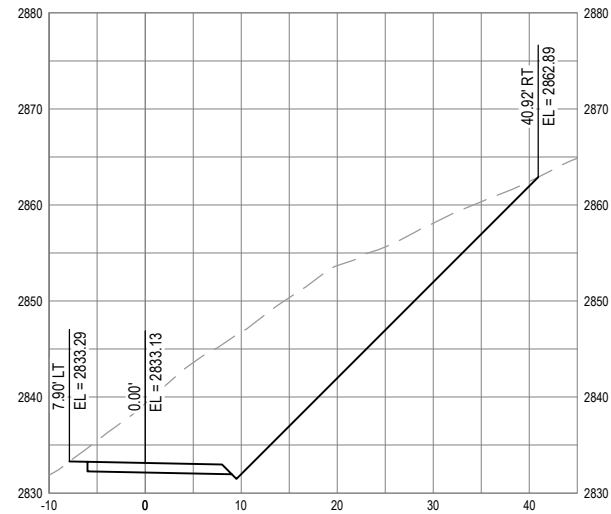
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME:	PANTHER GAP ROAD
ROAD NO.:	40010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
**STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50**  
CROSS SECTIONS - 24 OF 26

SHEET  
40  
OF  
49

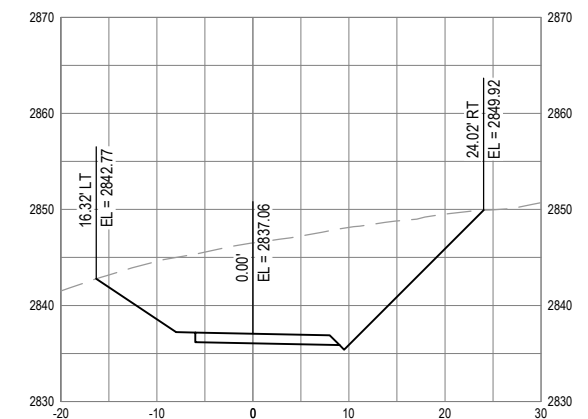
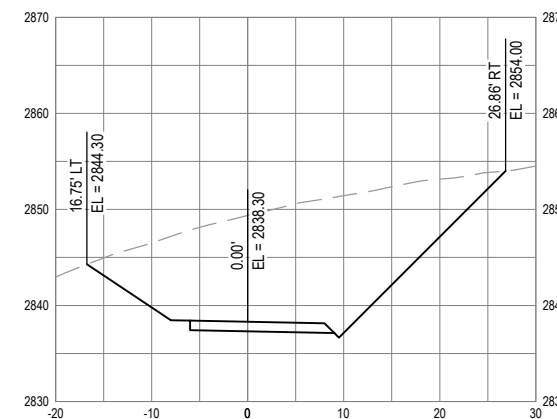
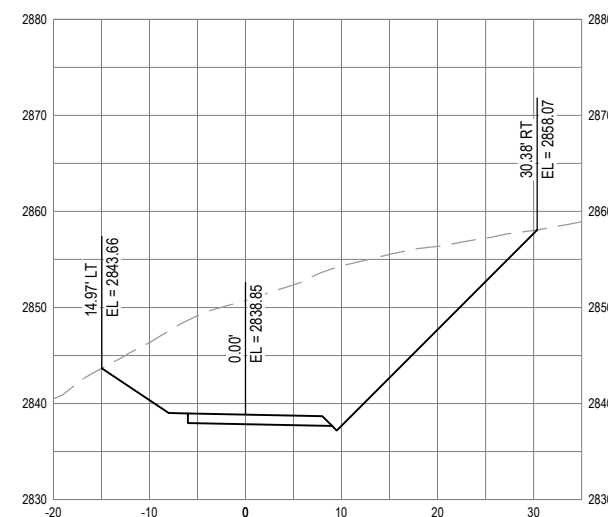
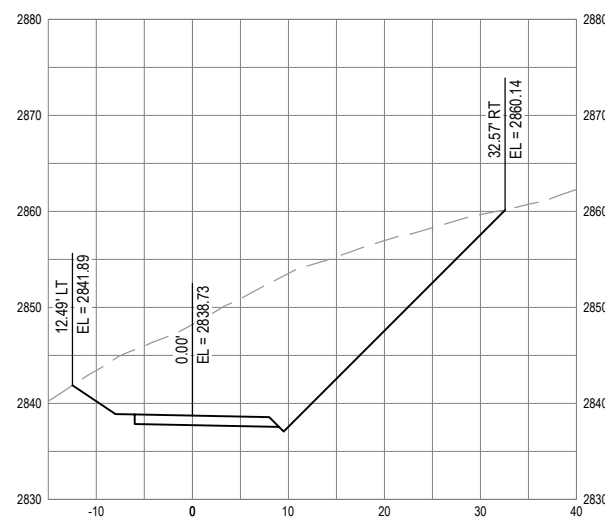


SECTION - STA 83+20

SECTION - STA 83+40

SECTION - STA 83+60

SECTION - STA 83+80



SECTION - STA 84+00

SECTION - STA 84+20

SECTION - STA 84+40

SECTION - STA 84+60







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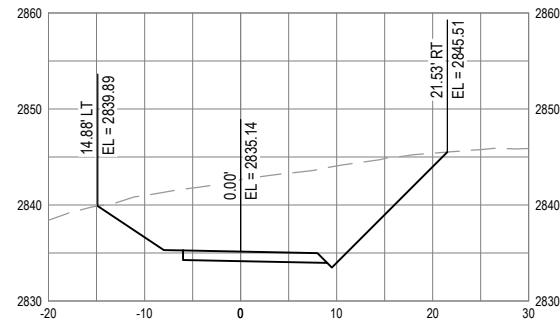


ROAD NAME: PANTHER GAP ROAD  
ROAD NO: 4D010  
MILE POST: 0.50  
PROJECT NO.: FEMA 4301-CA-DR PW-909  
CONTRACT NO.: 217387  
PLOT DATE: 05/18/2022

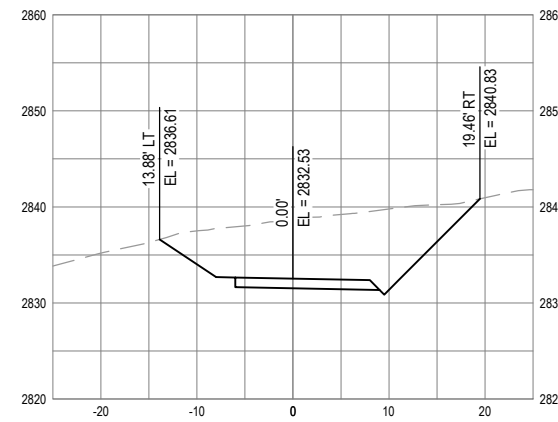
DESIGN SECTION  
ENGINEERING  
DESIGNED BY: C.PROVO  
DRAWN BY: C.PROVO  
REVIEWED BY: J. WOLF  
APPROVED BY: J. WOLF

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50  
CROSS SECTIONS - 25 OF 26

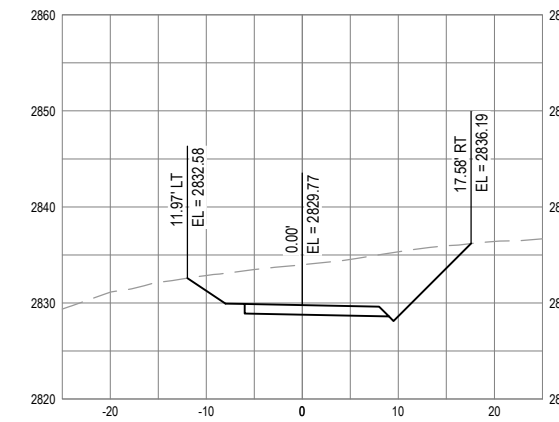
SHEET  
41  
OF  
49



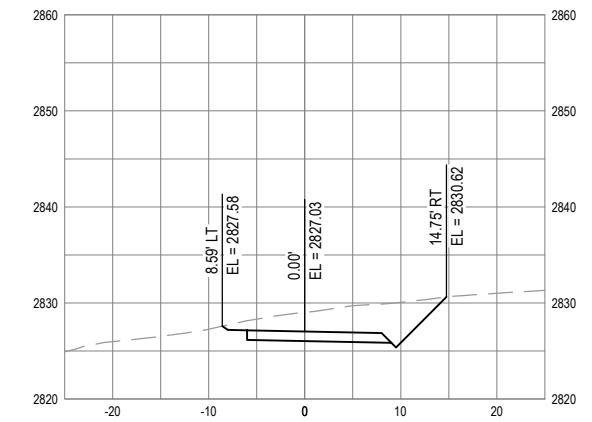
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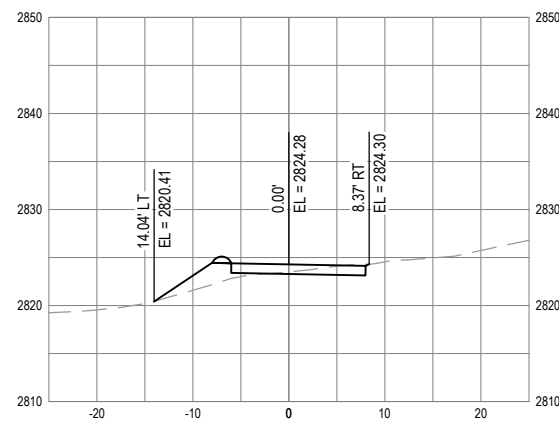
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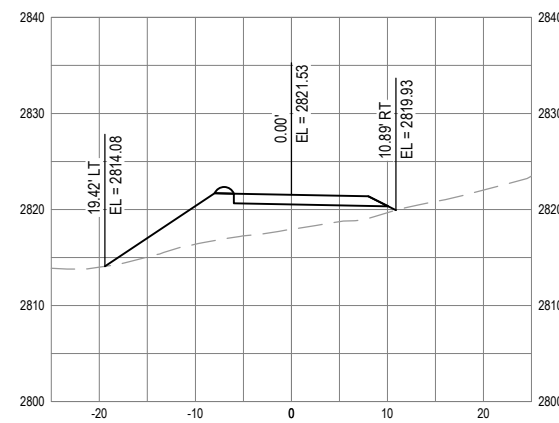
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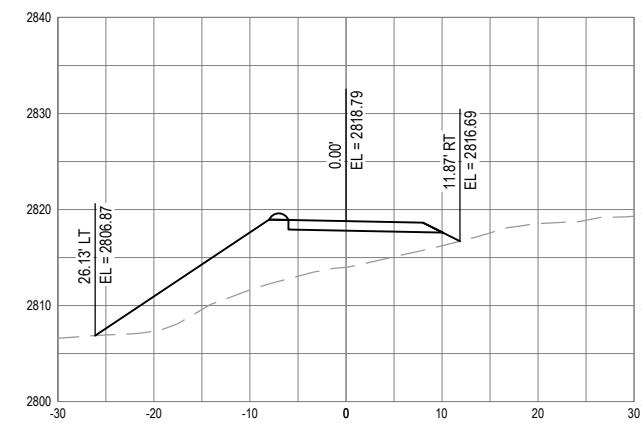
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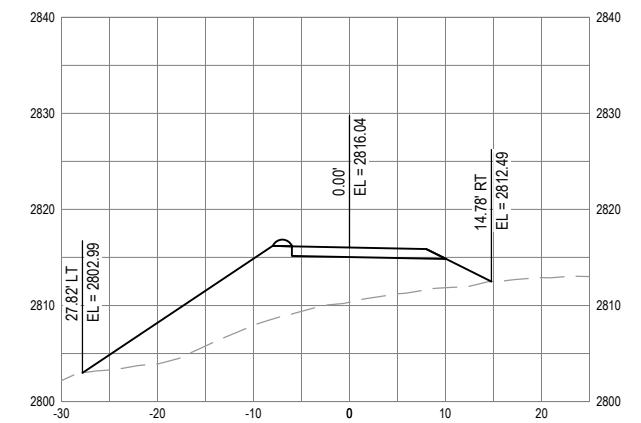
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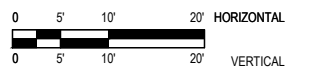
SECTION - STA 85+80



SECTION - STA 86+00



SECTION - STA 86+20





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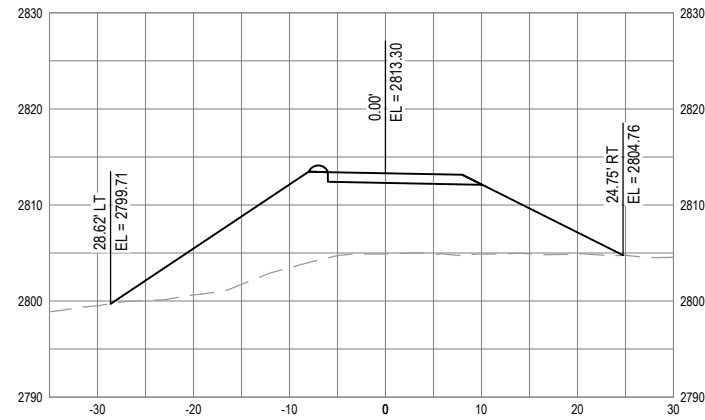
BAR IS ONE INCH ON ORIGINAL DRAWING  
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ROAD NAME:	PANTHER GAP ROAD
ROAD NO.:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

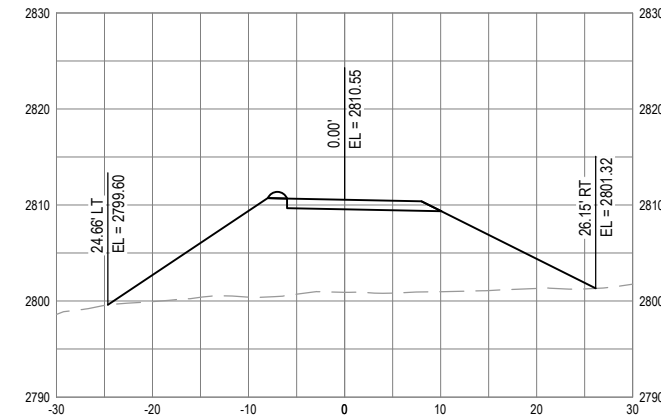
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PROVO
DRAWN BY:	C.PROVO
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
**STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50**  
CROSS SECTIONS - 26 OF 26

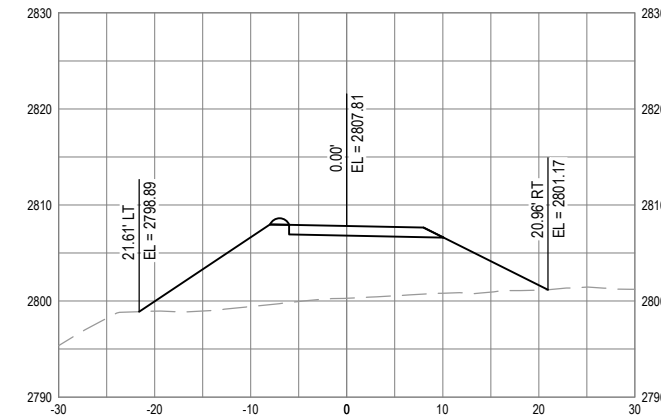
SHEET  
42  
OF  
49



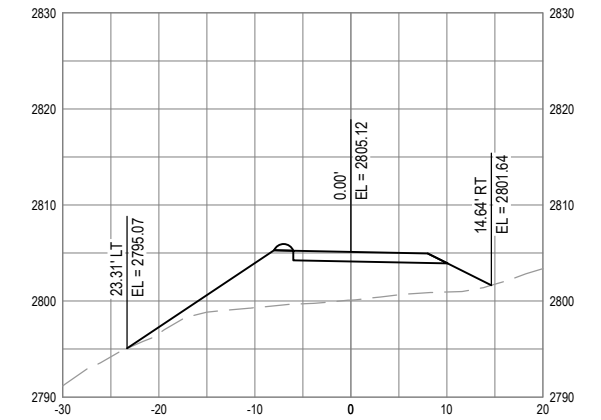
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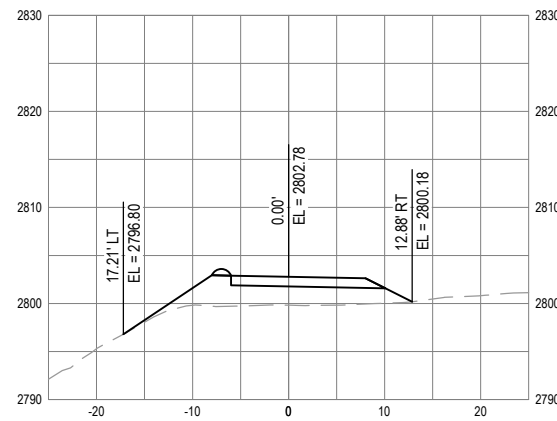
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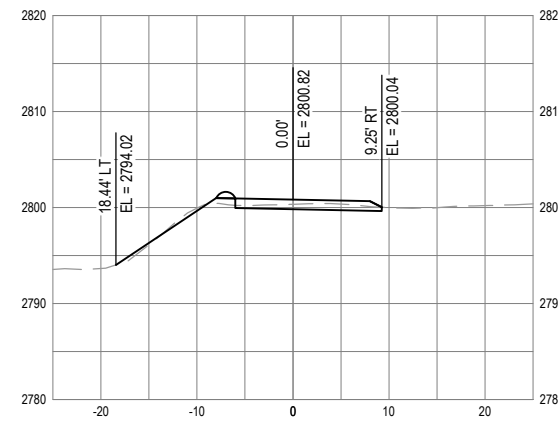
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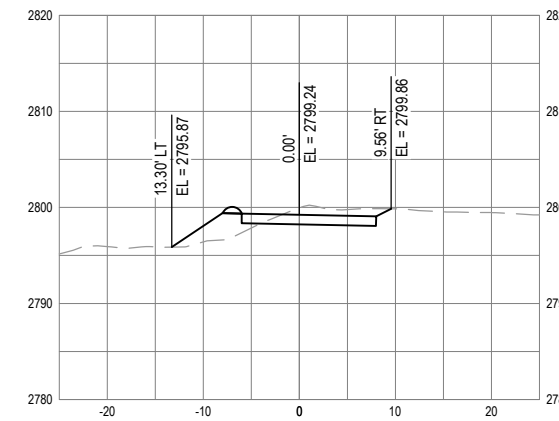
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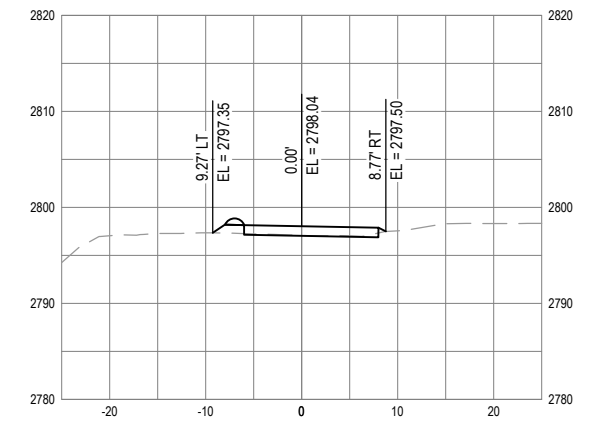
SECTION - STA 87+20



SECTION - STA 87+40



SECTION - STA 87+60



SECTION - STA 87+80





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ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PENNY
DRAWN BY:	C.PENNY
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
DISPOSAL SITE HAUL ROUTES

SHEET  
43  
OF  
49





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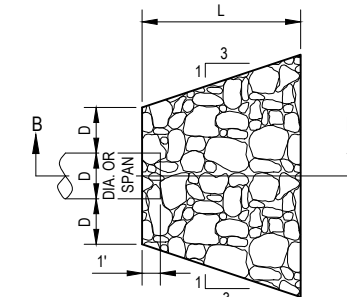
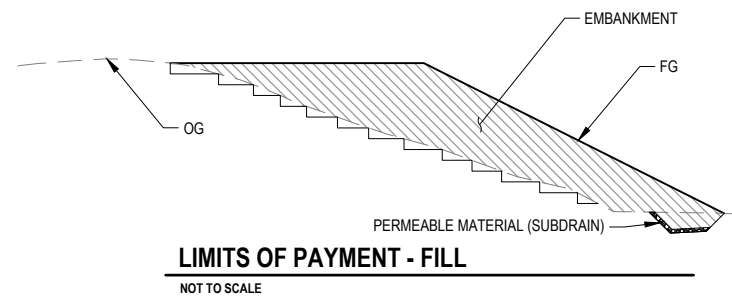
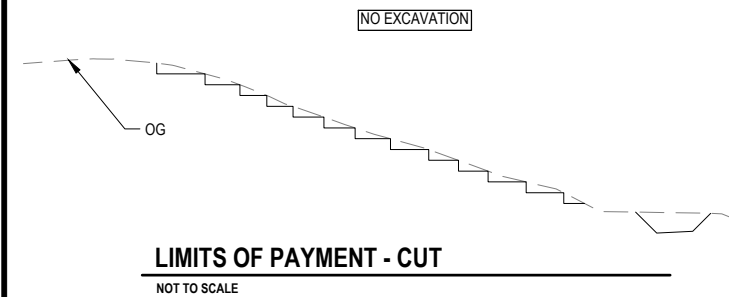
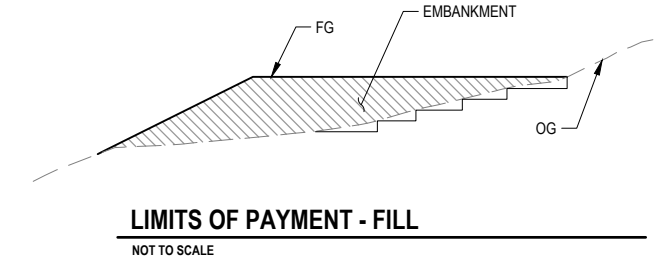
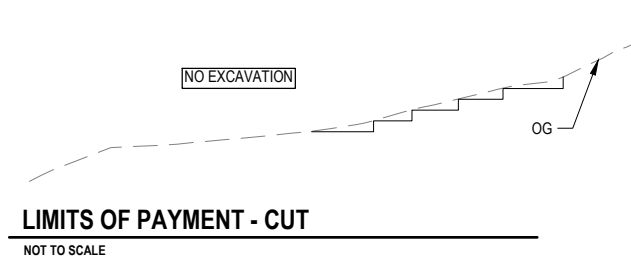
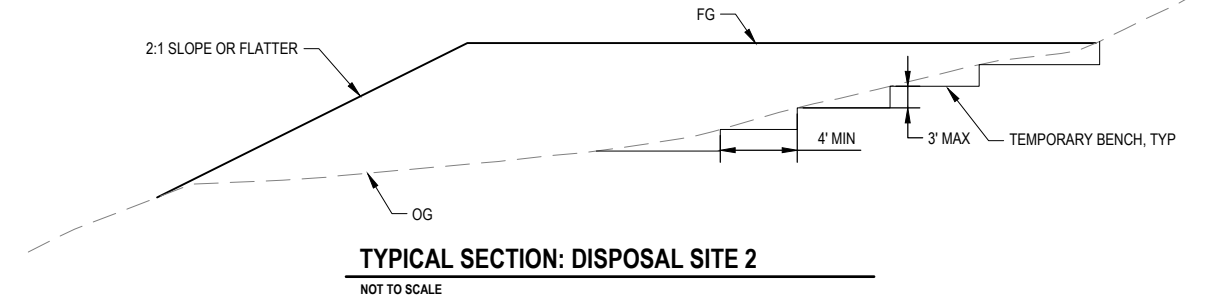
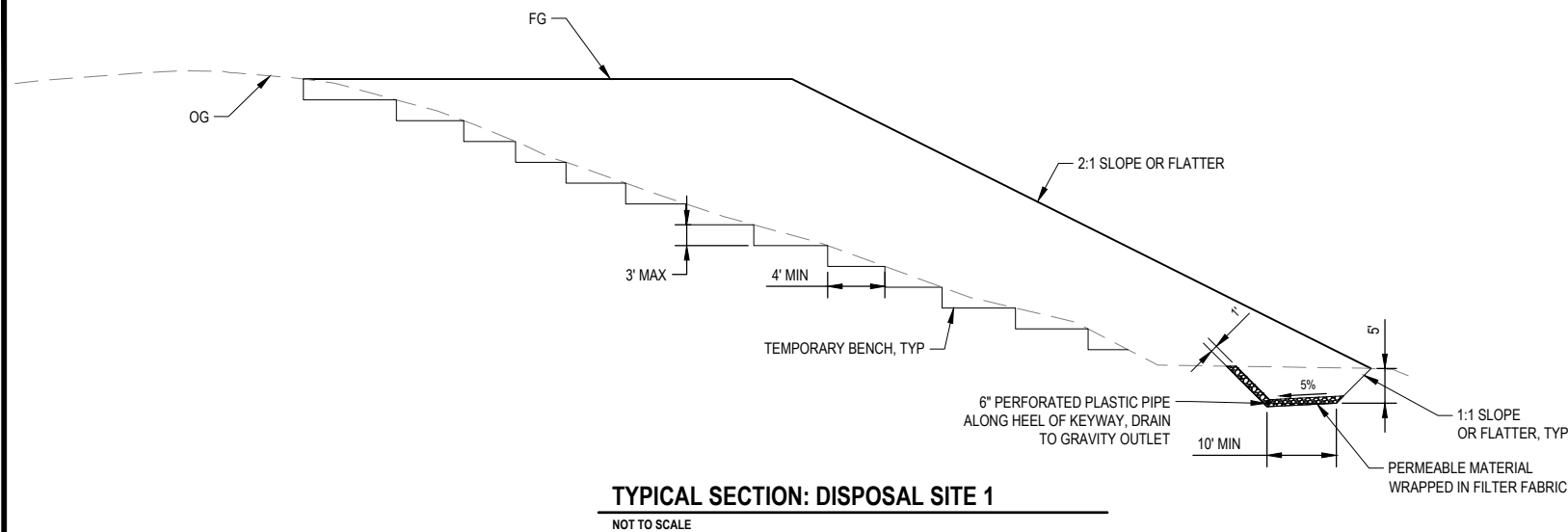


ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PENNY
MILE POST: 0.50	DRAWN BY: C.PENNY
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

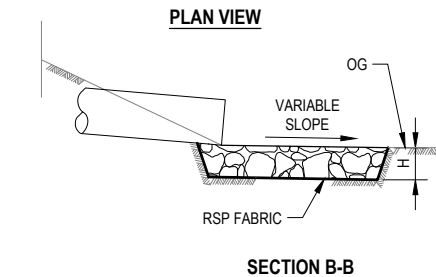
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 44 OF 49
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50	
DISPOSAL SITES TYPICAL SECTIONS	

**LEGEND**

EMBANKMENT	
PERMEABLE MATERIAL (SUBDRAIN)	

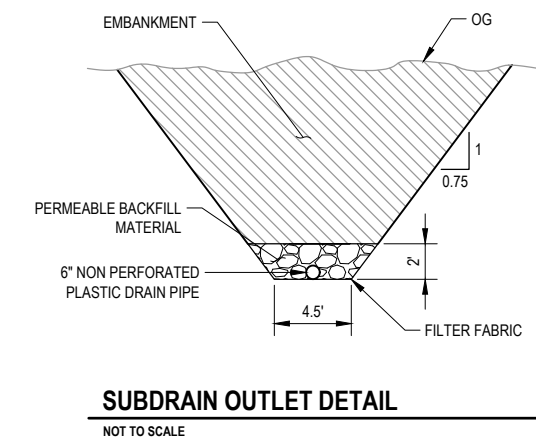
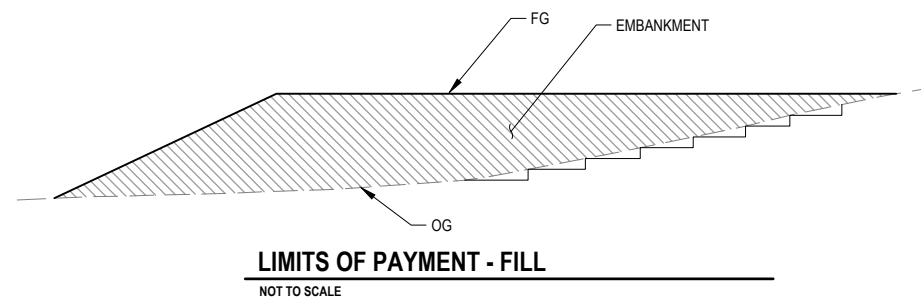
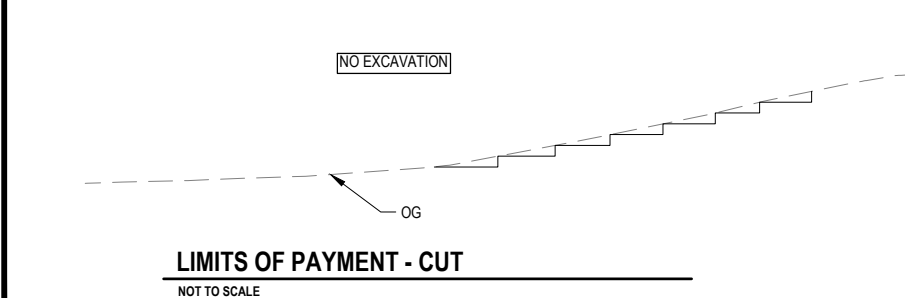
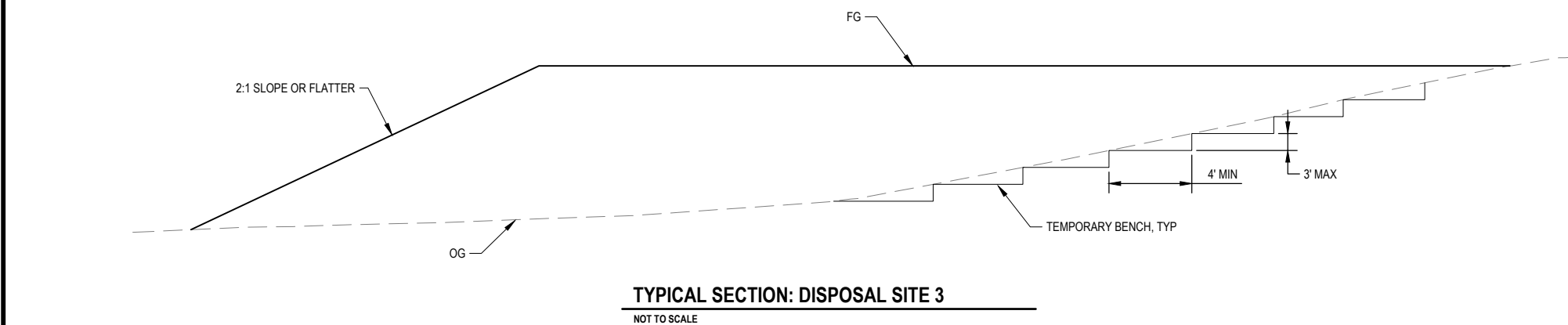


CULVERT SIZE D (inches)	RSP CLASS	LENGTH OF APRON L (feet)	DEPTH OF APRON H (feet)
6	2	6	1.5



- NOTE:**
- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.
  - RSP FABRIC IS INCLUDED IN PAYMENT FOR RSP.

**RSP ENERGY DISSIPATOR (SLOPE)**  
NOT TO SCALE





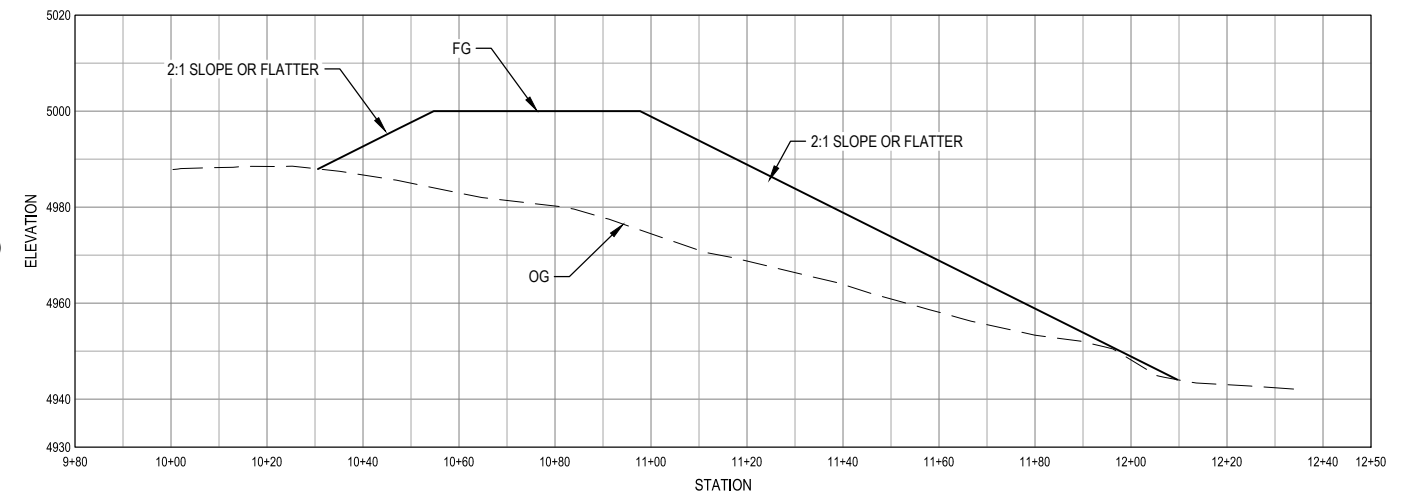
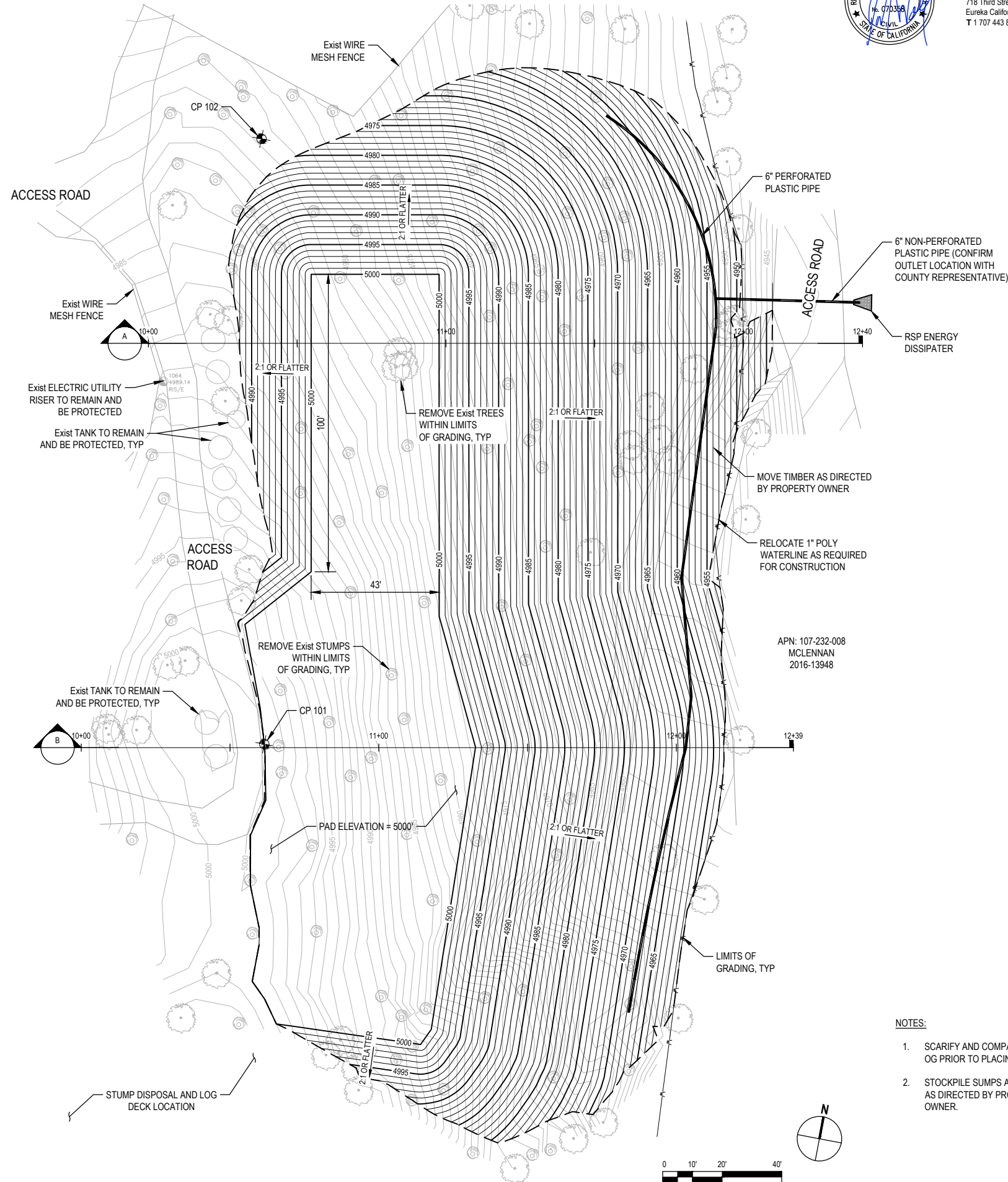
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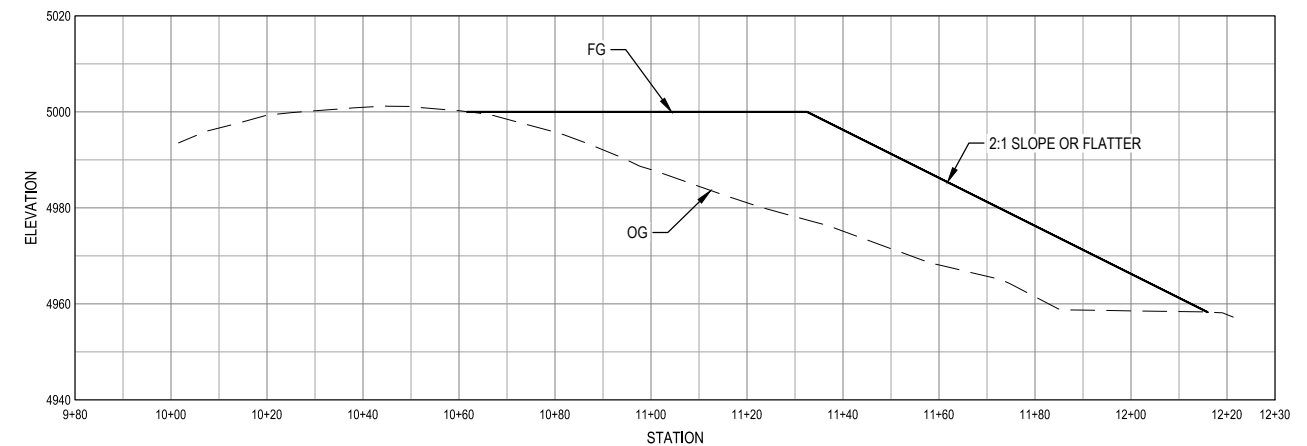
ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PENNY
MILE POST: 0.50	DRAWN BY: C.PENNY
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
DISPOSAL SITE 1 LAYOUT AND SECTIONS

SHEET  
45  
OF  
49



**A SECTION A: DISPOSAL SITE 1**



**B SECTION B: DISPOSAL SITE 1**

**NOTES:**

- SCARIFY AND COMPACT 6" OF OG PRIOR TO PLACING FILL.
- STOCKPILE SUMPS AND LOGS AS DIRECTED BY PROPERTY OWNER.

**CONTROL POINT TABLE**  
(Units in U.S. Survey Feet)

Point #	Raw Description	Northing	Easting	Elevation
101	CP/80DS	20000.00	30000.00	5000.00
102	CP/80DS	20199.74	29961.17	4981.14

**PROPERTY OWNER**  
RICH MCLENNAN (707) 477-4957

**SURVEY NOTE**  
SURVEY CONDUCTED BY COUNTY OF HUMBOLDT ON 3/16/2021

**BASIS OF BEARINGS NOTE**  
THE BEARINGS ARE BASED ON TIES BETWEEN CONTROL POINT #101 AND CONTROL POINT #102 WITH A COMPASS BEARING OF N11° W COORDINATES ARE ASSUMED AT CONTROL POINT #101 BEING 20,000 NORTHING, 30,000 EASTING.

**ELEVATION NOTE**  
ELEVATIONS ARE ASSUMED BASED UPON CONTROL POINT #101, ELEVATION=5,000.00'



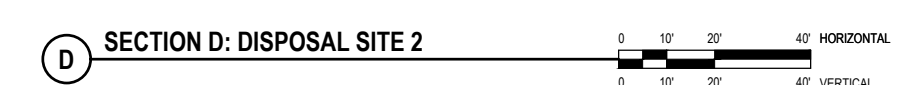
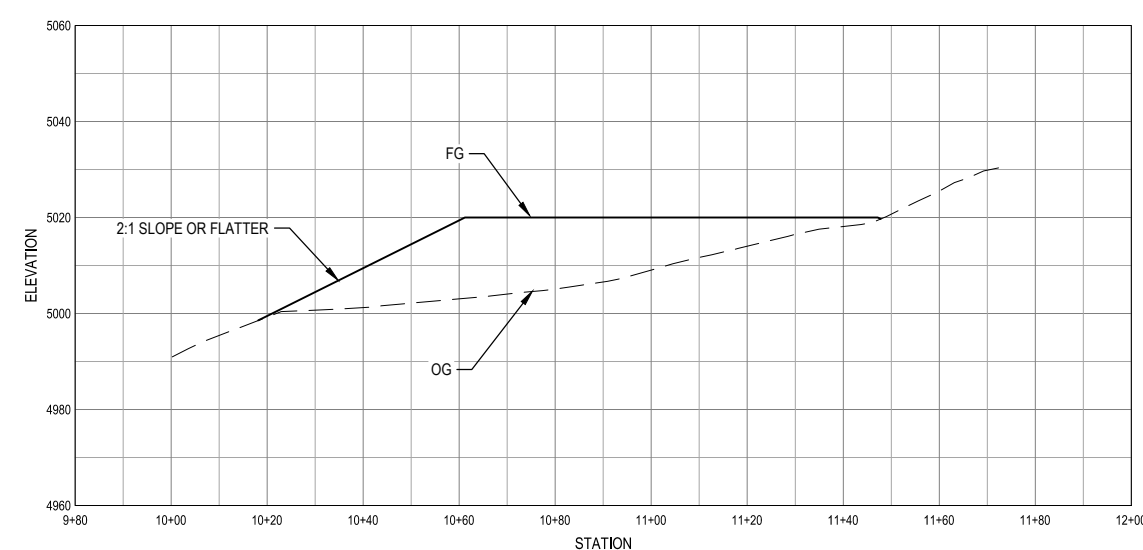
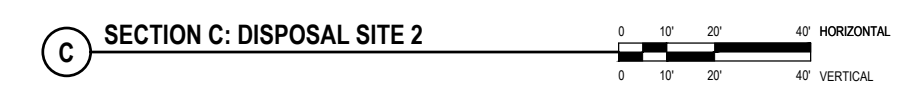
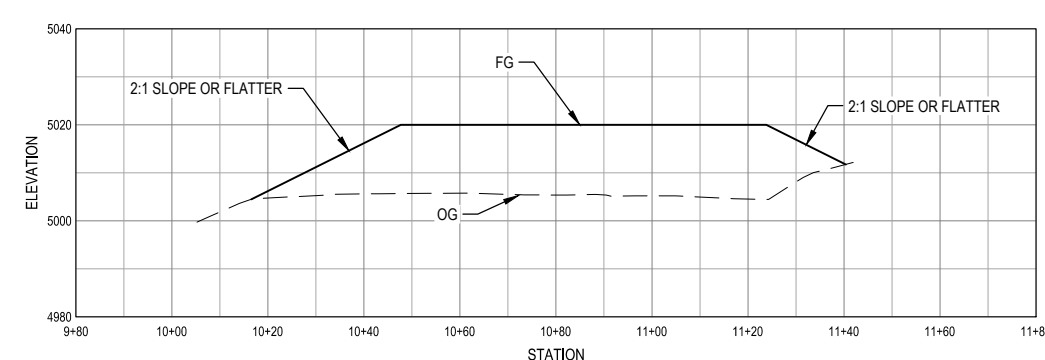
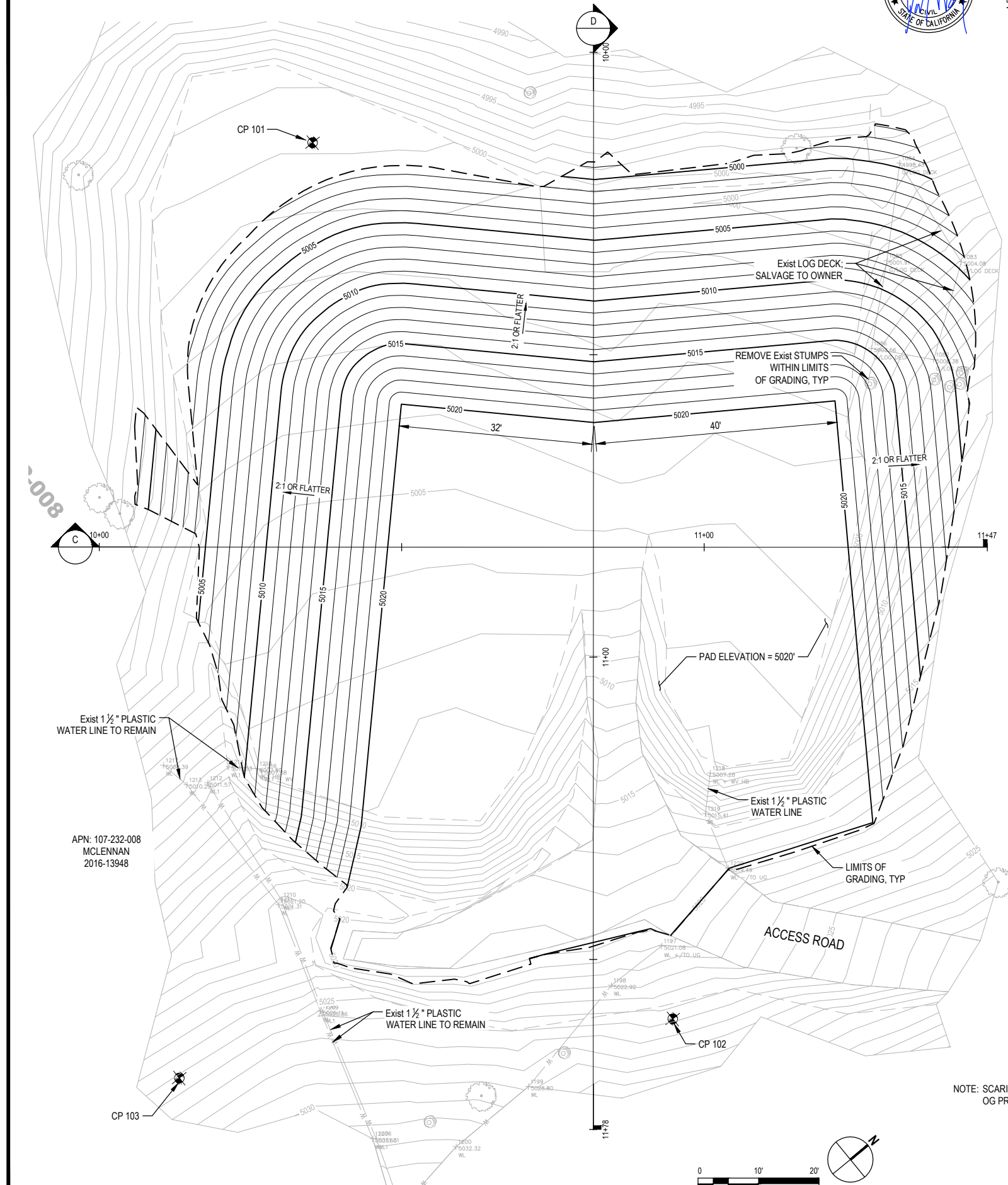
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ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PENNY
MILE POST: 0.50	DRAWN BY: C.PENNY
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
DISPOSAL SITE 2 LAYOUT AND SECTIONS

SHEET  
46  
OF  
49



Point #	Raw Description	Northing	Easting	Elevation
101	CP/80DS	40000.00	50000.00	5000.00
102	CP/80DS	39954.20	50149.80	5025.70
103	CP/80DS	39884.90	50105.65	5025.44

**PROPERTY OWNER**  
RICH MCLENNAN (707) 477-4957

**SURVEY NOTE**  
SURVEY CONDUCTED BY COUNTY OF HUMBOLDT ON 4/1/2021

**BASIS OF BEARINGS NOTE**  
THE BEARINGS ARE BASED ON TIES BETWEEN CONTROL POINT #101 AND CONTROL POINT #102 WITH A COMPASS BEARING OF S73E. COORDINATES ARE ASSUMED AT CONTROL POINT #101 BEING 40,000 NORTHING, 50,000 EASTING.

**ELEVATION NOTE**  
ELEVATIONS ARE ASSUMED BASED UPON CONTROL POINT #101, ELEVATION=5,000.00'



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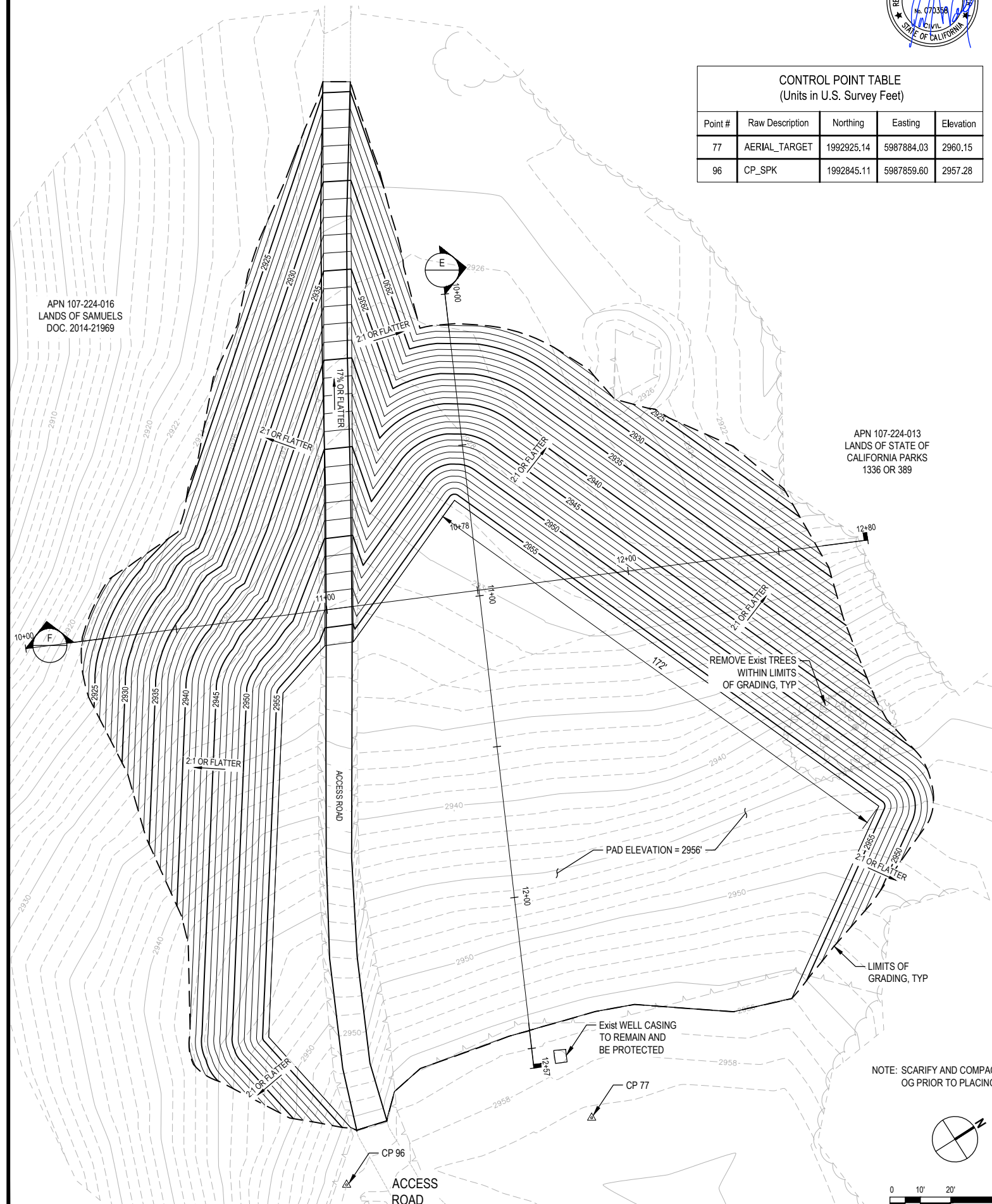


ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: 4D010	DESIGNED BY: C.PENNY
MILE POST: 0.50	DRAWN BY: C.PENNY
PROJECT NO.: FEMA 4301-CA-DR PW-909	REVIEWED BY: J. WOLF
CONTRACT NO.: 217387	APPROVED BY: J. WOLF
PLOT DATE: 05/18/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
DISPOSAL SITE 3 LAYOUT AND SECTIONS

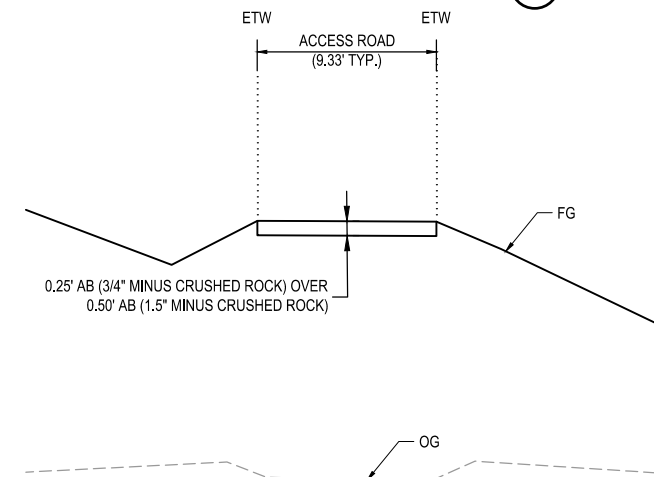
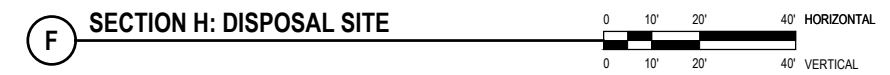
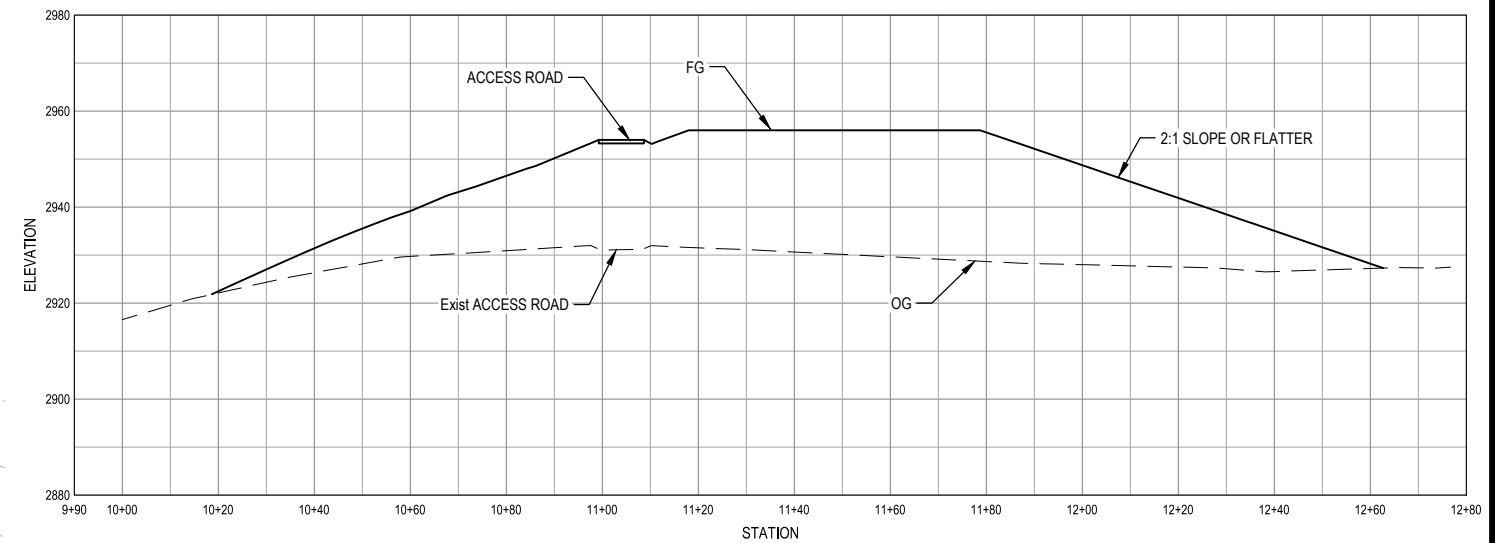
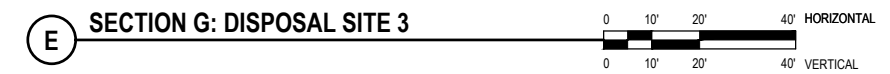
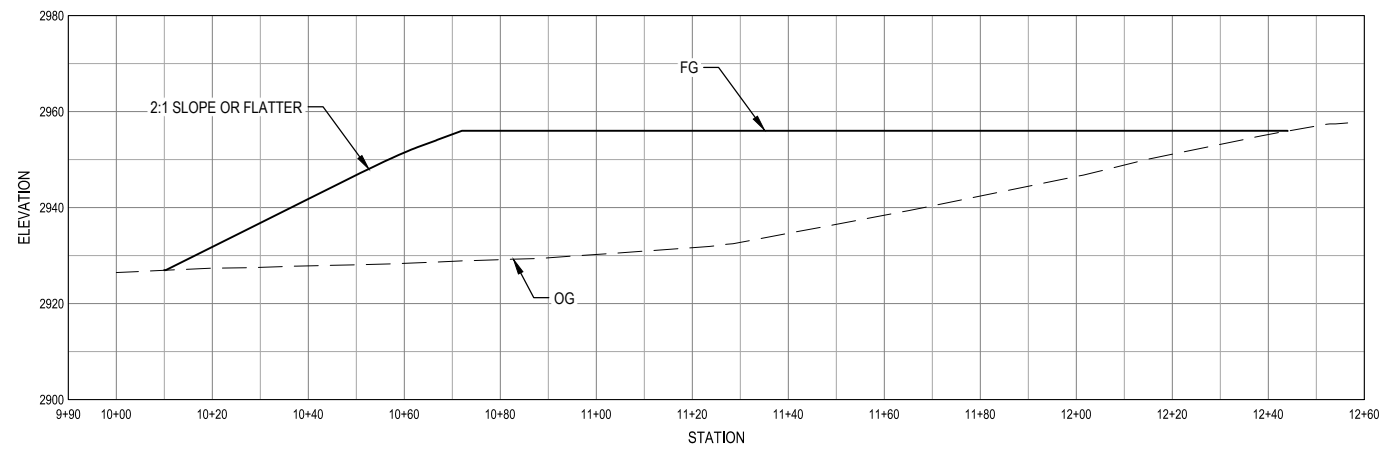
SHEET  
47  
OF  
49

Point #	Raw Description	Northing	Easting	Elevation
77	AERIAL_TARGET	1992925.14	5987884.03	2960.15
96	CP_SPK	1992845.11	5987859.60	2957.28



APN 107-224-016  
LANDS OF SAMUELS  
DOC. 2014-21969

APN 107-224-013  
LANDS OF STATE OF CALIFORNIA PARKS  
1336 OR 389



TYPICAL SECTION - ACCESS ROAD  
NOT TO SCALE

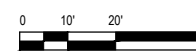
**PROPERTY OWNER**  
TOM SAMUELS (707) 496-6756

**SURVEY NOTE**  
SURVEY CONDUCTED BY COUNTY OF POINTS WEST SURVEYING ON 8/17/2021

**BASIS OF BEARINGS NOTE**  
COORDINATES FOR THIS SURVEY ARE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 1, NAD 83 (2011), EPOCH 2010.0 BASED ON A STATIC GPS CONTROL SURVEY USING THE NGS OPUS POST PROCESSING SOFTWARE. THE CONTROL POINT IDENTIFIED AS POINT 50 WAS HAS A MAPPING ANGLE IS 1 DEGREE 20 MINUTES 21 SECONDS; ROTATE BEARINGS HEREON COUNTERCLOCKWISE BY THIS ANGLE TO OBTAIN "TRUE" OR GEODETIC BEARINGS. GRID DISTANCES SHOWN SHOULD BE DIVIDED BY THE COMBINED SCALE FACTOR OF 0.99981479 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR ARE TAKEN AT CONTROL POINT NUMBER 50, A 5/8 INCH REBAR AND PLASTIC PLUG "PWS CONTROL"

**ELEVATION NOTE**  
ELEVATIONS ARE NAVD 88 DATUM BASED ON OPUS SOLUTION UTILIZING THE GEOID 12B MODEL. AN ELEVATION OF 2760.36 FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 50.

NOTE: SCARIFY AND COMPACT 6" OF OG PRIOR TO PLACING FILL



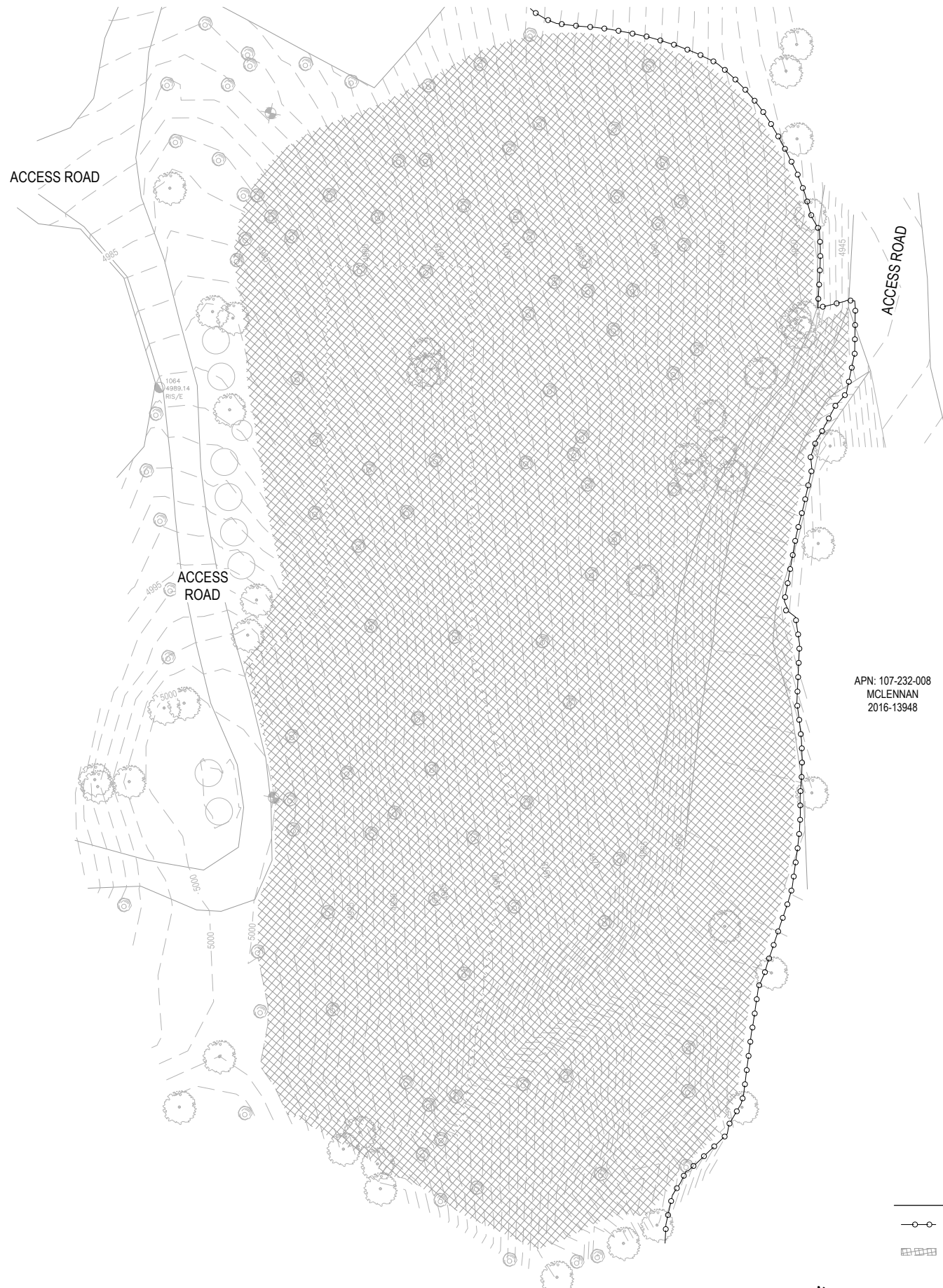
NOTE: THIS PLAN IS ACCURATE FOR  
EROSION CONTROL ONLY



GHD Inc.  
718 Third Street  
Eureka California 95501 USA  
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com



BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: PANTHER GAP ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT	SHEET 48
	ROAD NO: 4D010	ENGINEERING	DEPARTMENT OF PUBLIC WORKS	
	MILE POST: 0.50	DESIGNED BY: C.PENNY	STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50	
	PROJECT NO.: FEMA 4301-CA-DR PW-909	DRAWN BY: C.PENNY	OF	
	CONTRACT NO.: 217387	REVIEWED BY: J. WOLF	49	
	PLOT DATE: 05/18/2022	APPROVED BY: J. WOLF		

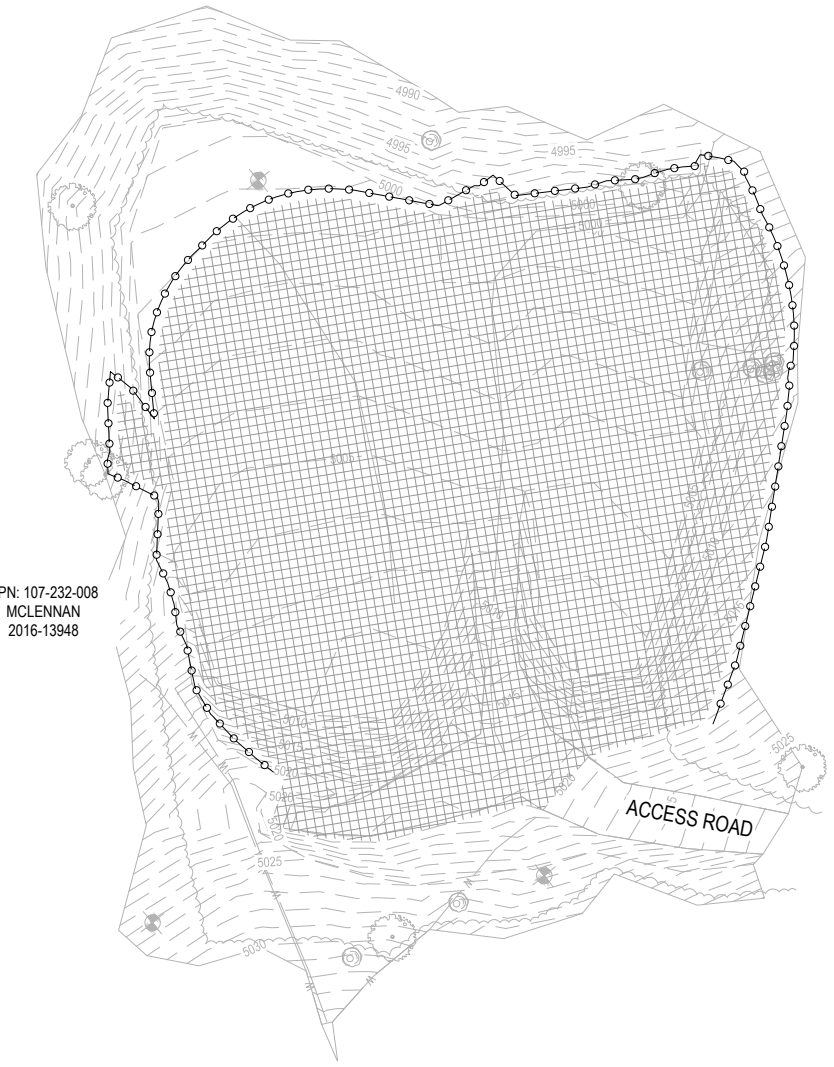
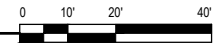


APN: 107-232-008  
MCLENNAN  
2016-13948

LEGEND

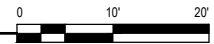
- TEMPORARY SILT FENCE
- BONDED FIBER MATRIX

DISPOSAL SITE 1: EROSION CONTROL



APN: 107-232-008  
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2016-13948

DISPOSAL SITE 2: EROSION CONTROL





NOTE: THIS PLAN IS ACCURATE FOR  
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BAR IS ONE INCH ON ORIGINAL DRAWING

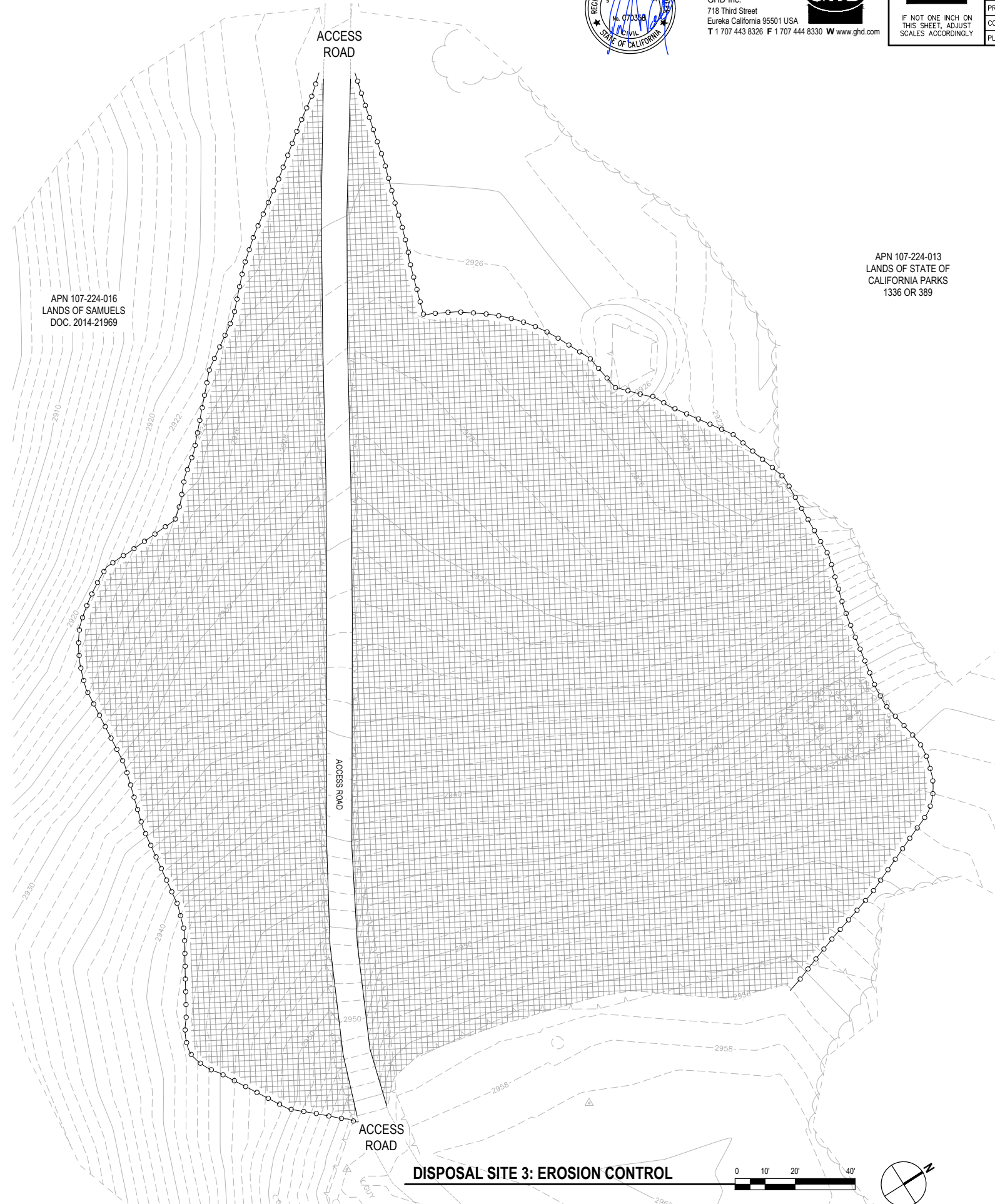
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME:	PANTHER GAP ROAD
ROAD NO:	4D010
MILE POST:	0.50
PROJECT NO.:	FEMA 4301-CA-DR PW-909
CONTRACT NO.:	217387
PLOT DATE:	05/18/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C.PENNY
DRAWN BY:	C.PENNY
REVIEWED BY:	J. WOLF
APPROVED BY:	J. WOLF

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR PANTHER GAP ROAD PM 0.50
DISPOSAL SITE 3 EROSION CONTROL

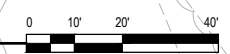
SHEET  
49  
OF  
49



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DISPOSAL SITE 3: EROSION CONTROL



LEGEND

- TEMPORARY SILT FENCE
- ▨ BONDED FIBER MATRIX