



FEMA

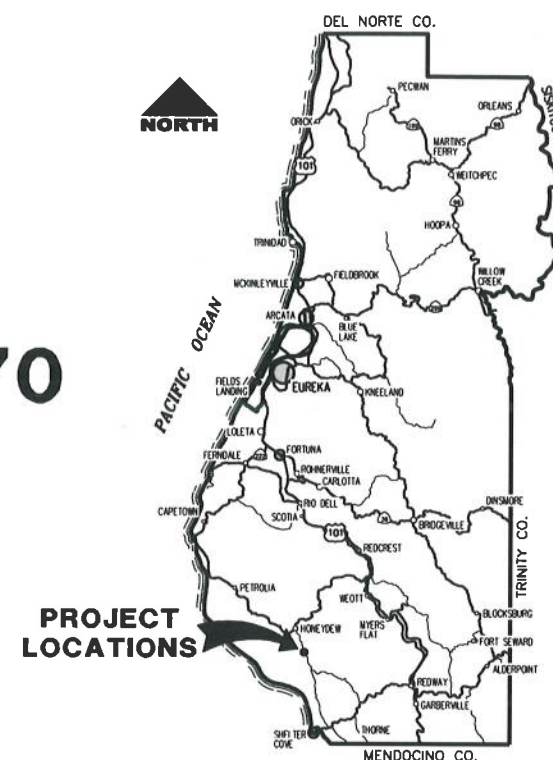


Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF
STORM DAMAGE REPAIRS TO
WILDER RIDGE RD (C5B010) AT P.M. 5.33 & 5.70
PROJECT NO. FEMA 4308-DR-CA PW-669
& PROJECT NO. FEMA 4301-DR-CA PW-1022
CONTRACT NO. 217377 & 217540

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: WILDER RIDGE ROAD	DESIGN SECTION ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 1 OF 12
	ROAD NO: C5B010	MILE POST: 5.33 & 5.70	STORM DAMAGE REPAIR TO WILDER RIDGE RD. PM 5.33 & 5.70	
	PROJECT NO: FEMA 4308 PW-669 & FEMA 4301 PW-1022	CAL OES ID: 023-00000	COVER SHEET	
	CONTRACT NO.: 217377 & 217540	DRAWN BY: WMS & JAB		
	DRAWING FILE NAME: I:\2017 Storm Damage\217377_Wilder Ridge Rd PM 5.33\Design\217377.D	REVIEWED BY: JAB		
	PLOT DATE: 5/30/2019	APPROVED BY: ARS		



LOCATION MAP
SCALE: 1"=10± MILE



INDEX OF SHEETS

- 1 COVER SHEET
- 2 SITE PLAN, QUANTITIES & DETAILS
- 3 TYPICAL SECTIONS & SURVEY CONTROL
- 4 PLAN & PROFILE
- 5-7 CROSS SECTIONS
- 8 SITE PLAN
- 9 PLAN & PROFILE
- 10-12 CROSS SECTIONS

NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" OR "C33" LICENSE
FOR THIS PROJECT.
REFERENCE TO CALTRANS STANDARD PLANS DATED OCTOBER 2018
(SEE APPLICABLE STAN PLAN LIST IN SPECIAL PROVISIONS)

DESIGN DESIGNATION

ADT (JANUARY '09)=158
V=35MPH (NOT POSTED)

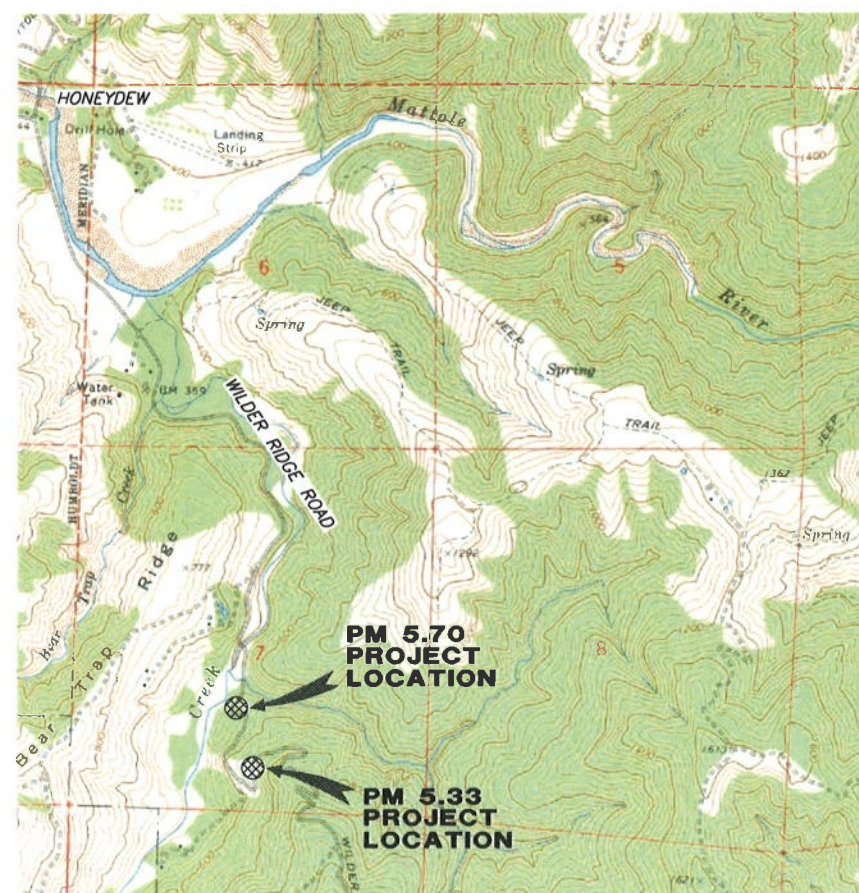
RECOMMENDED

Jeffrey A. Ball 6/4/19
JEFFREY A. BALL
RCE 70631, EXP. 6/30/2019
DATE



APPROVED

Tony R. Segretti 6/4/19
TONY R. SEGRETTI
RCE 63714, EXP. 9/30/2020
DATE



VICINITY MAP
NOT TO SCALE

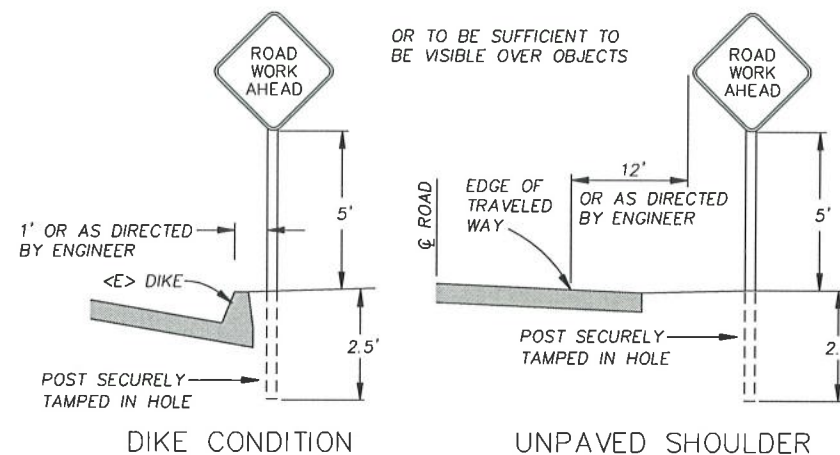
ORIGINAL LOW BID PRICE	CONSTRUCTED BY	RESIDENT ENGINEER
	PROJECT COMPLETED / /	CONSTRUCTION COST \$



BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: WILDER RIDGE ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
	ROAD NO: C58010	MILE POST: 5.33 & 5.70	ENGINEERING	
	PROJECT NO: FEMA 4308 PM-669 & FEMA 4308 PM-1022 CAL OES ID:023-00000		DESIGNED BY: MWS & JAB	
	CONTRACT NO.: 217377 & 217540		DRAWN BY: MWS & JAB	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING FILE NAME: L:\2017 Storm Damage\217377_Wilder Ridge Rd PM 5.33\Design\217377.d		REVIEWED BY: JAB	STORM DAMAGE REPAIR TO WILDER RIDGE RD. PM 5.33 & 5.70
	PLOT DATE: 5/29/2019		APPROVED BY: TRS	
	SITE PLANS, QUANTITIES, AND DETAILS			

CONSTRUCTION AREA SIGN SUMMARY

SIGN TYPE	QTY	DESCRIPTION	SIZE	REMARKS	POST SIZE	NUMBER
W20-1	2	ROAD WORK AHEAD	36" x 36"	VISIBLE AT ALL TIMES	4" x 4"	1
W17 C29	4	STOP AHEAD 500 FT	36 x 36 29 x 9	VISIBLE AT ALL TIMES	4 x 4	1
R1	4	STOP	36 x 36	VISIBLE AT ALL TIMES	4 x 4	1
G20-2	2	END ROAD WORK	36" x 18"	VISIBLE AT ALL TIMES	4 x 4	1



RURAL CONSTRUCTION AREA SIGN

- NOT TO SCALE -

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.
 - 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) DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE OF EACH OTHER.
- * PLACEMENT MAY NEED ADJUSTMENT AFTER K-RAIL IS SET.

QUANTITIES

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	5.33 QUANTITY	5.70 QUANTITY	TOTAL QUANTITY
1	120090	Construction Area Signs	EA	6	6	12
2	120100	Traffic Control System	LS	1	1	1
3	129000	Temporary Railing (Type K)	LF	140	0	140
4	130100	Job Site Management	LS	1	1	1
5	130200	Perpare Water Pollution Control Plan	LS	1	1	1
6	130680	Temporary Silt Fence	LF	140	240	380
7	170103	Clearing and Grubbing (LS)	LS	0	1	1
8	190101	Roadway Excavation	CY	70	1,025	1,095
9	190141	Stabilization Trench Excavation	CY	590	0	590
10	190136	Excavation (Detour)	CY	110	0	110
11	198050	Embankment	CY	380	250	630
12	210300	Fiber Rolls	LF	140	240	380
13	210430	Hydroseed	SQFT	3,400	4,000	7,400
14	260303	Class 3 Aggregate Base	CY	50	400	450
15	390132	Hot Mix Asphalt (Type A)	TON	50	200	250
16	680902	6" Perforated Plastic Pipe Underdrain	LF	150	0	150
17	681990	Filter Fabric	SY	460	0	460
18	682045	Class 3 Permeable Material	CY	210	0	210
19	721017	Rock Slope Protection (Facing, Method B)	CY	0	60	60
20	721030	Rock Slope Protection (1/2 Ton, Method B)	CY	0	220	220
21	999999	Mobilization	LS	1	1	1

CONSTRUCTION SITE
WILDER RIDGE RD PM 5.70

CONSTRUCTION SITE
WILDER RIDGE RD PM 5.33

TRAFFIC CONTROL PLAN

1"=200'±



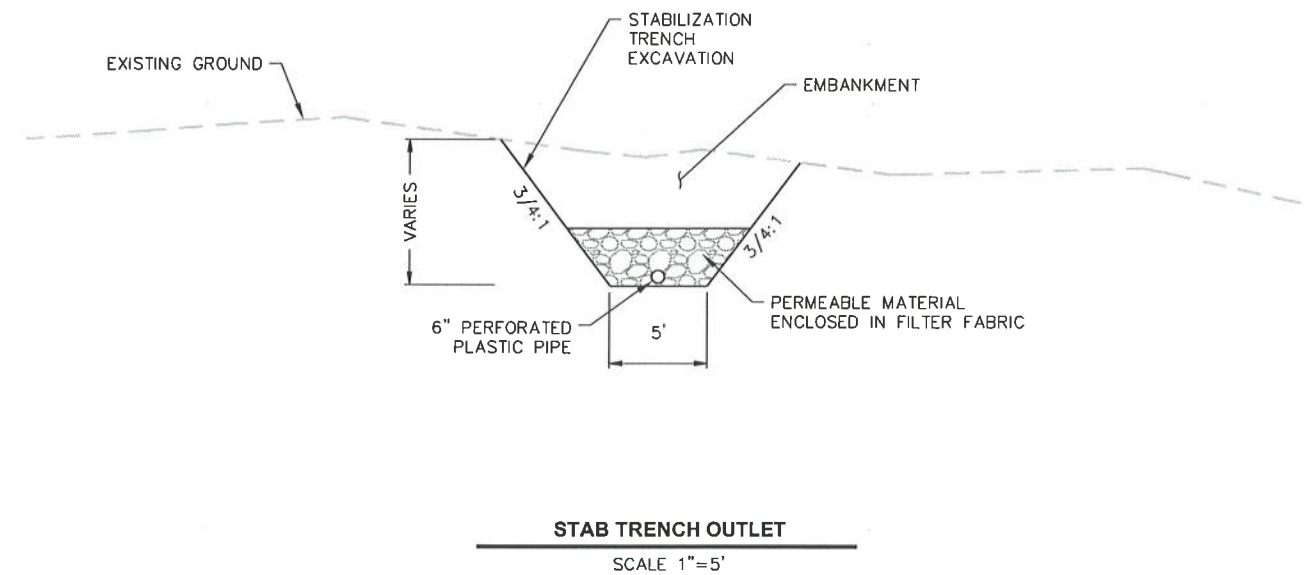
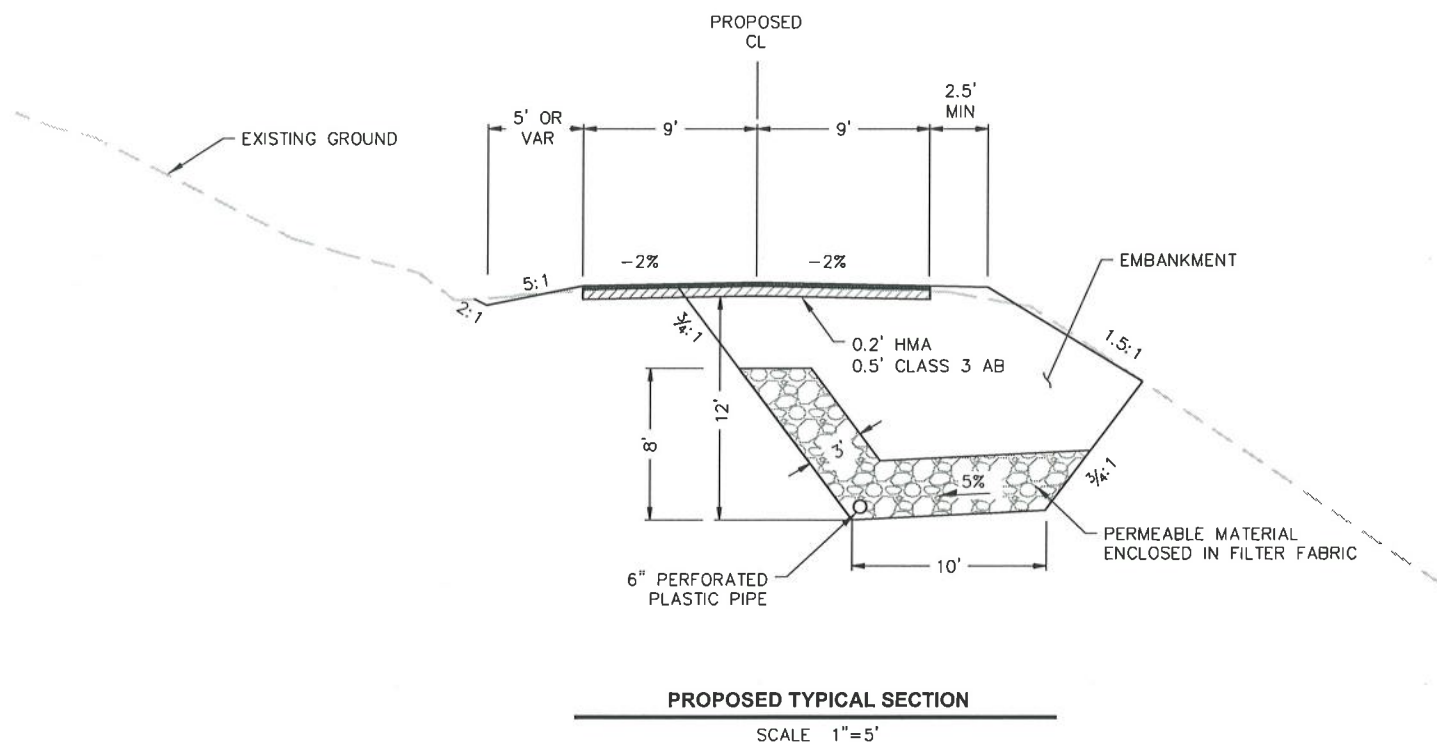
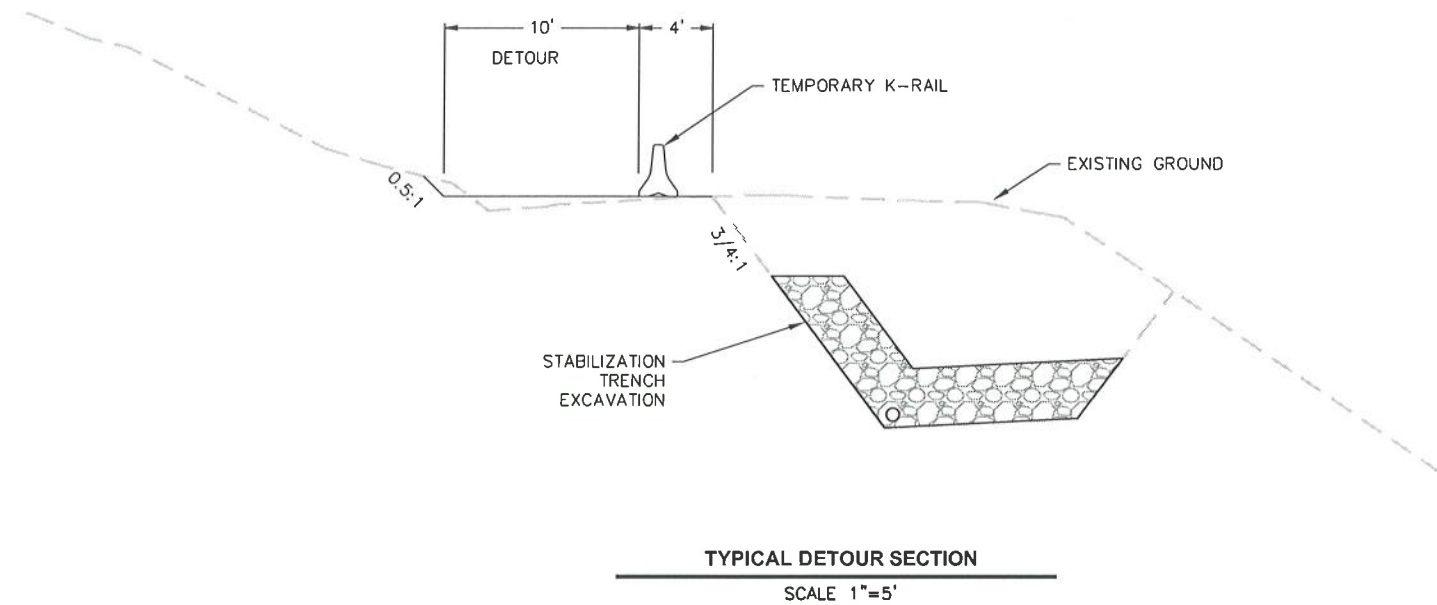
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: WILDER RIDGE ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO WILDER RIDGE RD. PM 5.33 TYPICAL SECTIONS AND SURVEY CONTROL	SHEET 3 OF 12
	ROAD NO.: C58010	MILE POST: 5.33	ENGINEERING		
	PROJECT NO.: FEMA 4308-DR-CA PW-669	CAL OES ID: 023-00000	DESIGNED BY: MWS		
	CONTRACT NO.: 217377		DRAWN BY: MWS		
	DRAWING FILE NAME: L:\2017 Storm Damage\217377_Wilder Ridge Rd PM 5.33\Design\217377.d		REVIEWED BY: JAB		
	PLOT DATE: 5/30/2019		APPROVED BY: TRS		

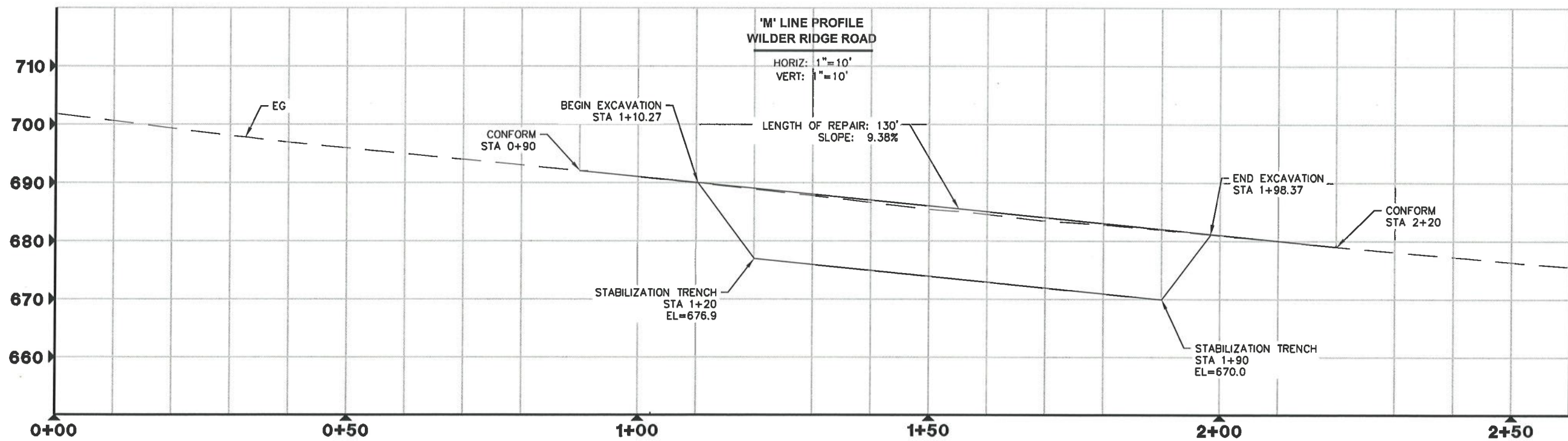
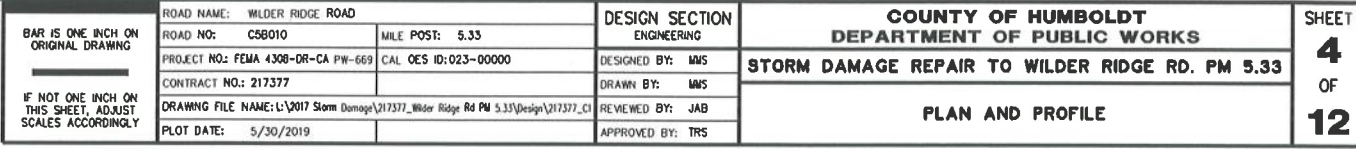
SURVEY CONTROL COORDINATES LIST

POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
50	5972235.7473'	1969621.0909'	671.22'	CP_SPIKE
51	5972334.7697'	1969801.0506'	689.36'	CP_SPIKE
52	5972450.0451'	1969849.1570'	702.42'	CP_MAG
53	5972350.8137'	1969814.6589'	691.18'	CP_SPIKE
9060	5972169.8189'	1969669.4352'	666.89'	CP60_JN1129_BM_A1465
9061	5972240.2085'	1969614.0673'	671.58'	CP61_JN1129_COUNTY_CNTRL

SURVEY NOTES:

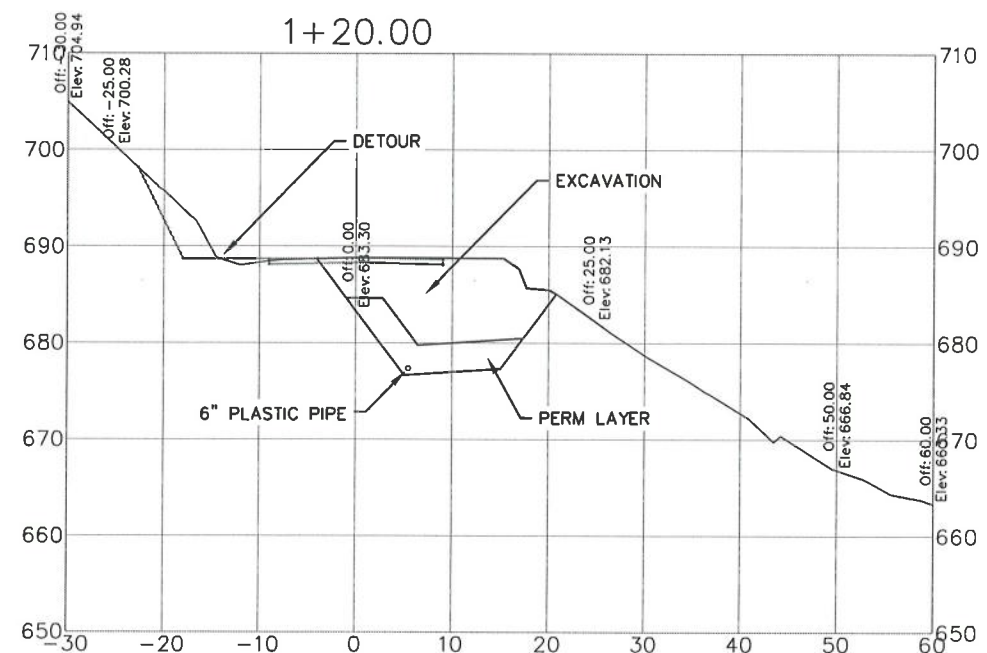
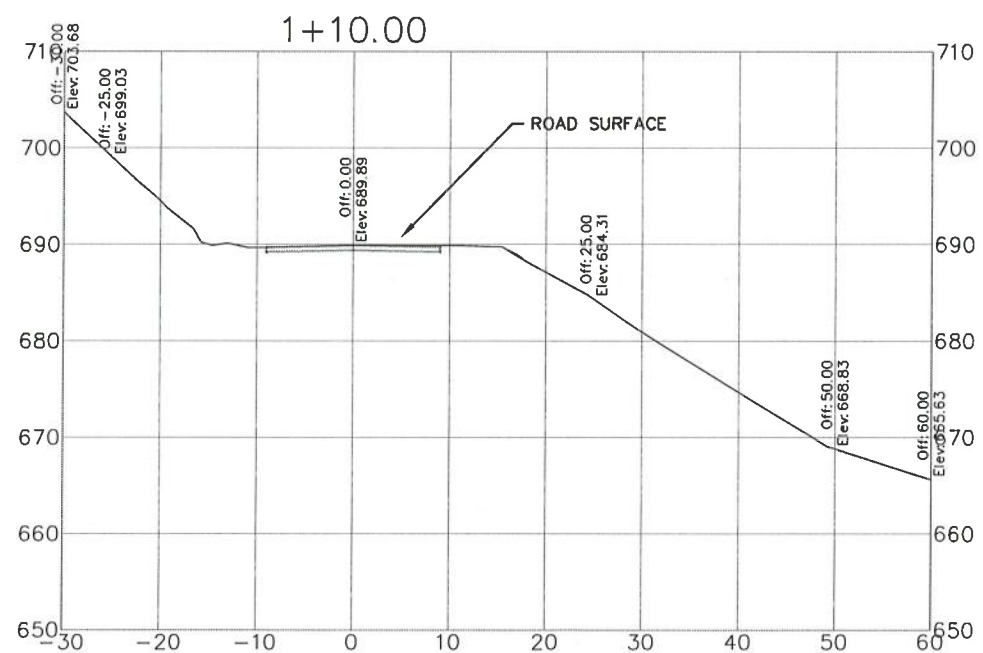
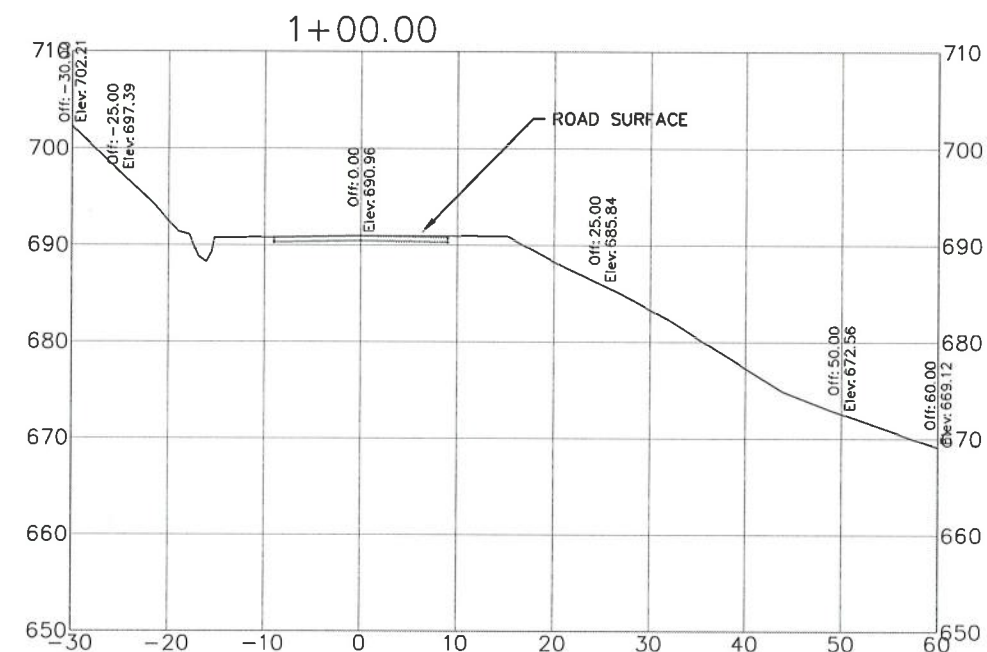
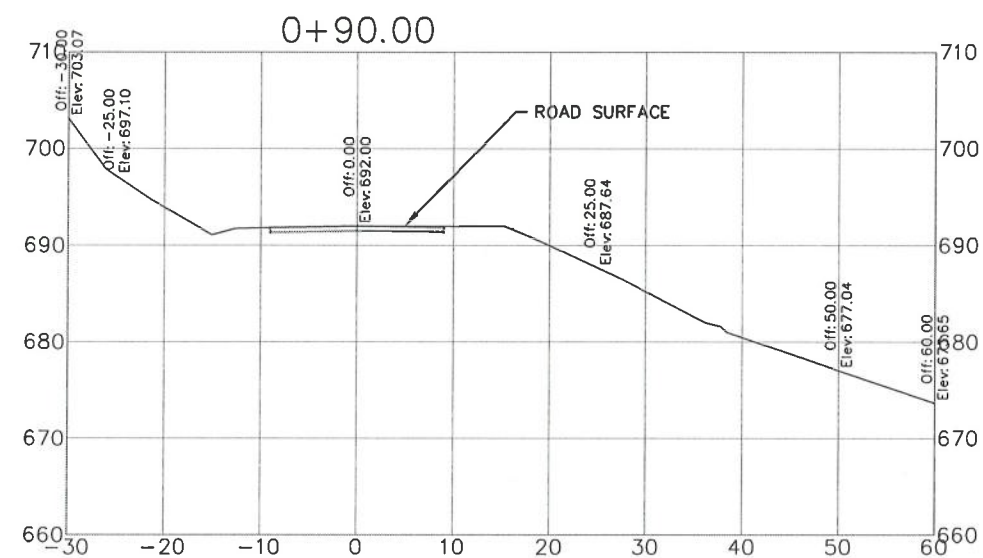
- The purpose of this survey is to determine topography at the road failure on Wilder Ridge Road PM 5.33. Field work was performed by Points West Surveying on October 17, 2018. This survey reflects conditions at that time.
- Underground utilities shown hereon are based on ties made in the field to visible utility structures. The only utilities found were an overhead electric and telephone line and the storm drain structure. The existence of other underground utilities, if any, is unknown. Contact Underground Service Alert (U.S.A.) at 1-800-227-2600 before excavating to confirm location and existence of underground utilities shown or not shown hereon.
- Coordinates for this survey are California Coordinate System of 1983 (CCS83) based on a static GPS Control Survey. The mapping angle is 1 degree 22 minutes 49 seconds- rotate bearings counterclockwise by this angle to obtain "True" or Geodetic bearings. Grid distances shown should be divided by the Combined Scale factor of 0.99993272 to obtain ground distances. Mapping angle and grid scale factor taken at Control Point No. 51. Horizontal control is NAD 83 (2011), Epoch 2010.0, based static GPS tie to NGS PID "LU2349", an NGS HPGN Network point in Weott with designation "HPGN D CA 01 MC". Vertical control is based on NGS PID "LV1202", NAVD 88 datum, with elevation of 666.89 feet.
- Only trees greater than 12 inches in diameter were located- numerous other trees exist in surveyed area and are not shown.
- The County of Humboldt performed a survey on this site in May 2009. The County survey indicates a right of way of 66 foot width based on the Road Register Book , pages 18-33 and pages 104-105. The adjacent deeds have bearings along road but qualify them with calls to and along the "County Road". Parcel Map 2618 recorded in Book 23 of Parcel Maps, pages 108-113 dedicates a 30 foot strip north of the existing centerline (Parcel "C") and includes areas 10 feet beyond the toe of fill slopes or tops of cut slopes (not shown hereon as it falls within 66 foot strip shown). This survey located the physical centerline of the road as the property line between the adjacent parcels shown and utilized it to locate the 66 foot wide right of way strip.
- Four point elevations from a previous survey done in 2009 by the County Survey Crew were added to the existing ground surface in order to more accurately model the detour needed during construction.







BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: WILDER RIDGE ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO WILDER RIDGE RD. PM 5.33 CROSS SECTIONS (0+90 TO 1+20)	SHEET 5 OF 12
	ROAD NO: C58010	MILE POST: 5.33	ENGINEERING		
	PROJECT NO: FEMA 4308-DR-CA PW-669	CAL OES ID: 023-00000	DESIGNED BY: MMS		
	CONTRACT NO: 217377		DRAWN BY: MMS		
	DRAWING FILE NAME: L:\2017 Storm Damage\217377_Wilder Ridge Rd PM 5.33\Design\217377.d		REVIEWED BY: JAB		
	PLOT DATE: 5/29/2019		APPROVED BY: TRS		

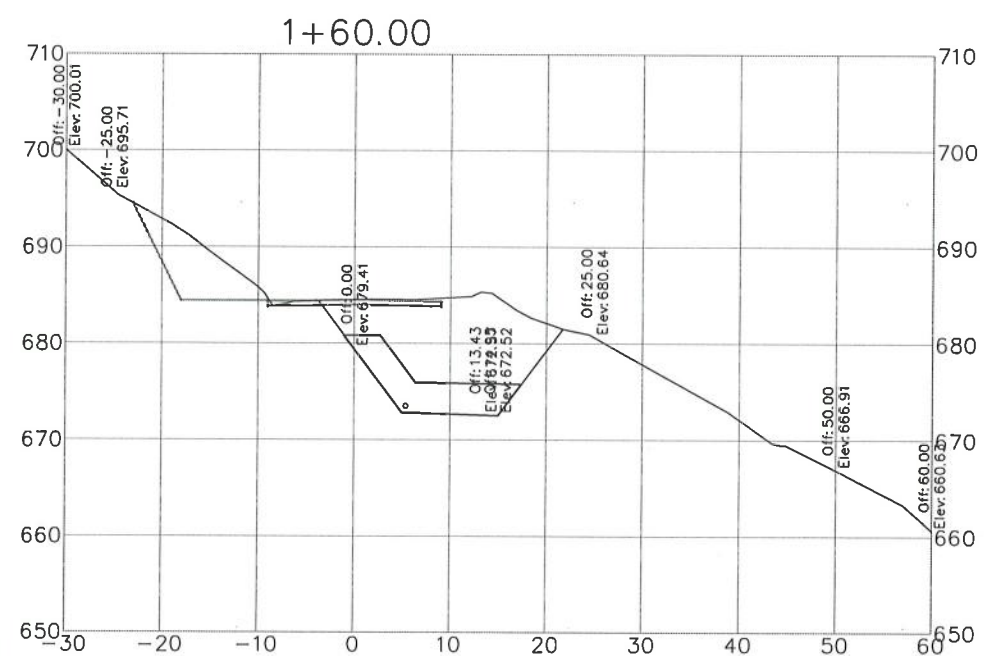
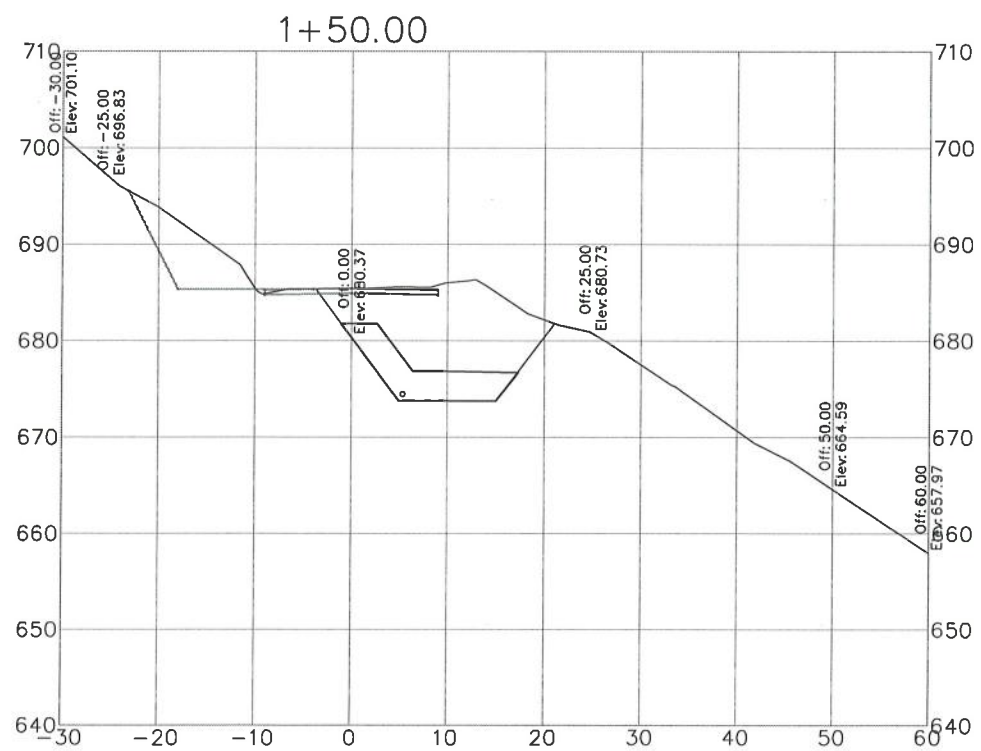
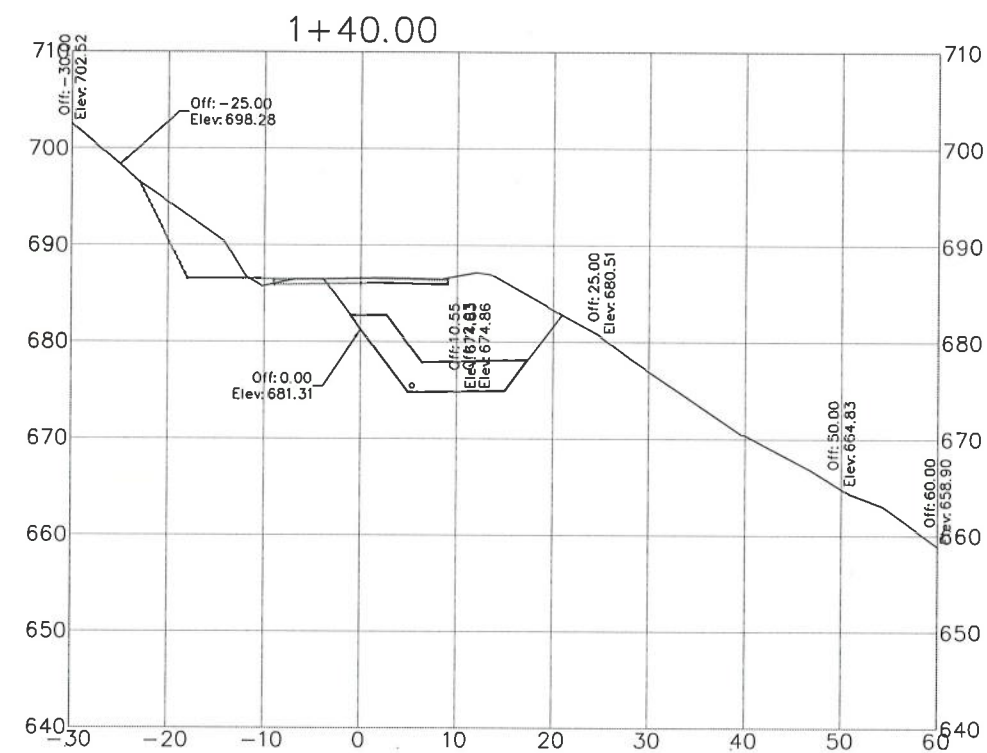
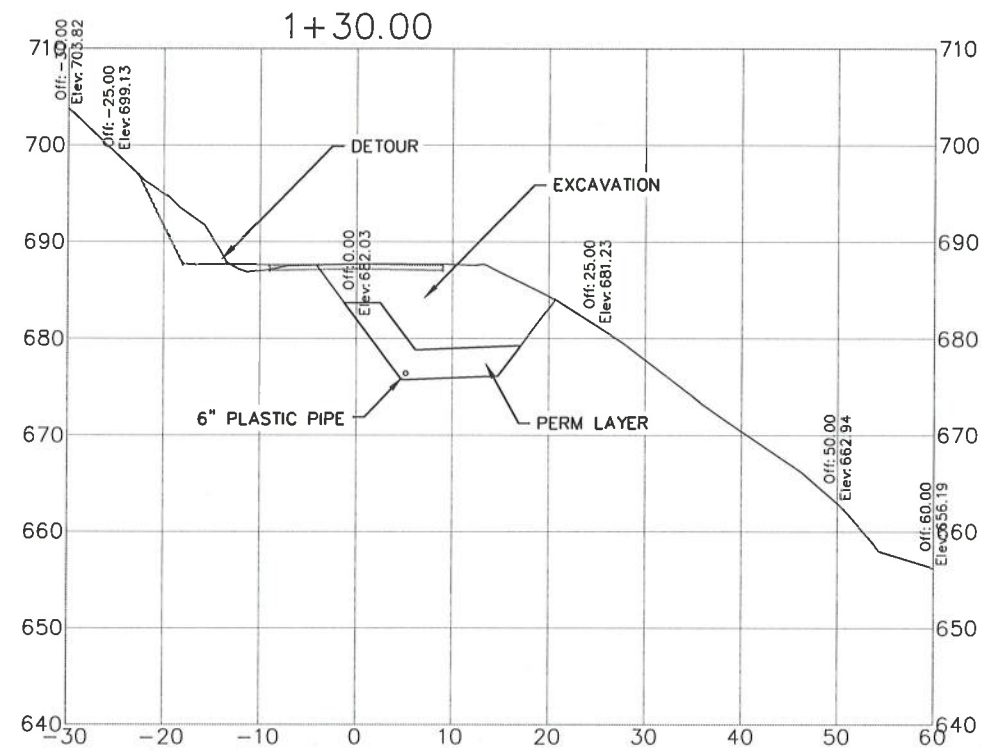


CROSS SECTIONS
WILDER RIDGE 5.33

SCALE: 1"=10'



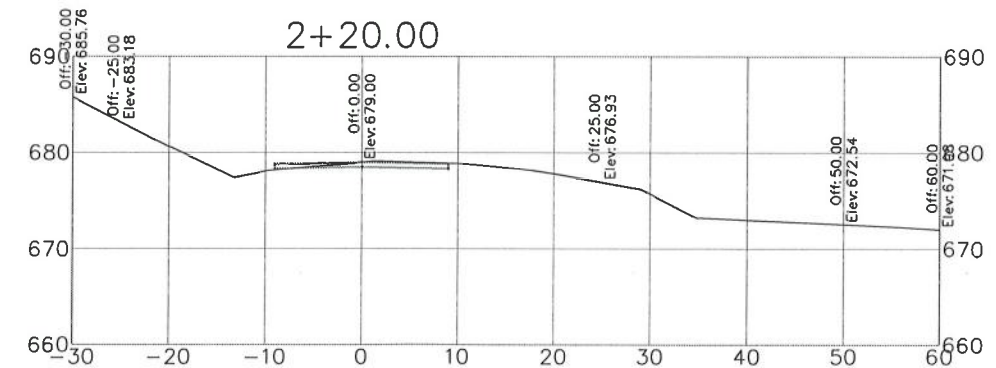
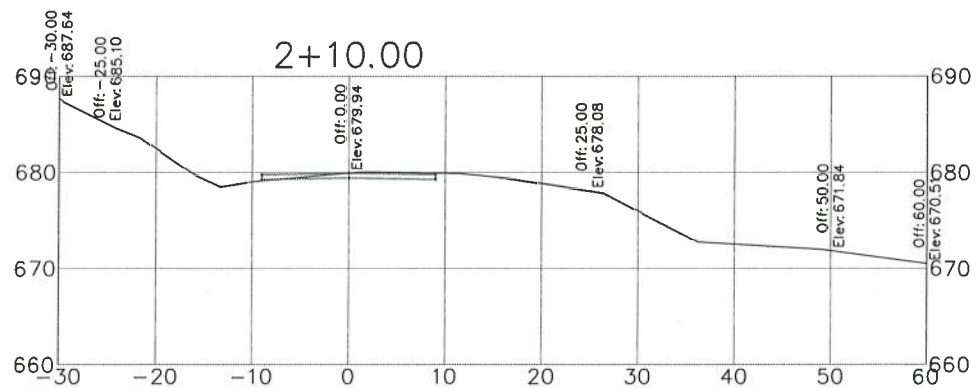
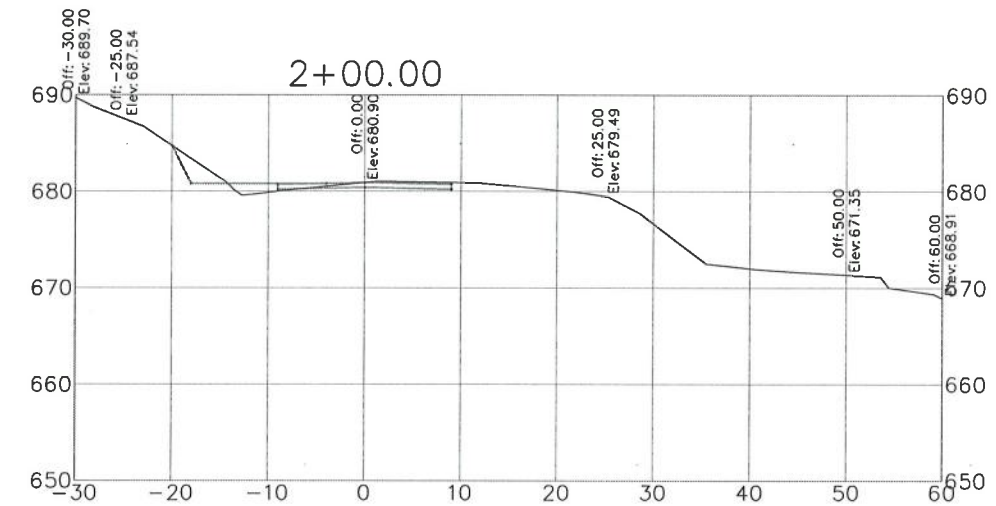
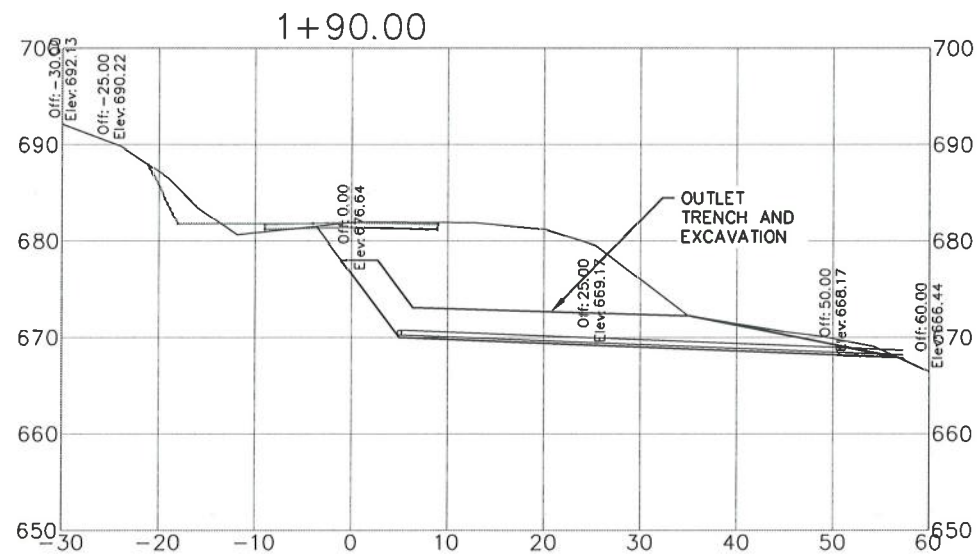
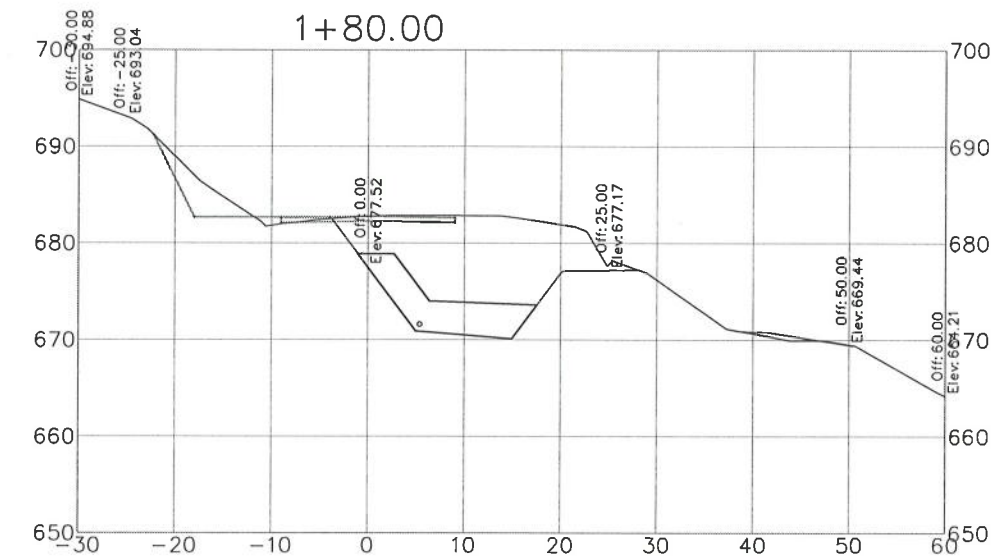
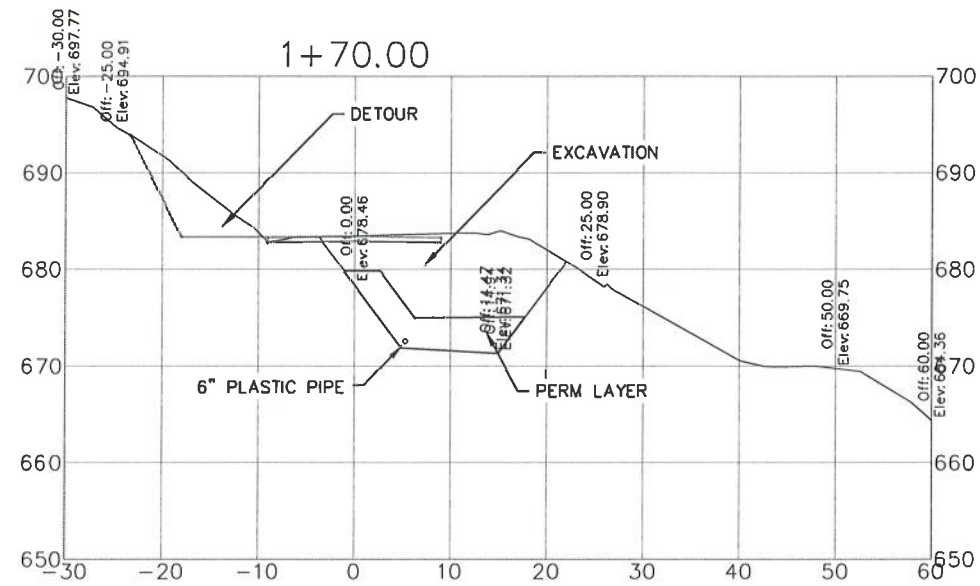
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: WILDER RIDGE ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO WILDER RIDGE RD. PM 5.33 CROSS SECTIONS (1+30 TO 1+60)	SHEET 6 OF 12
	ROAD NO: C58010	MILE POST: 5.33	ENGINEERING		
	PROJECT NO: FEMA 4308-DR-CA PW-669	CAL OES ID:023-00000	DESIGNED BY: MWS		
	CONTRACT NO.: 217377		DRAWN BY: MWS		
	DRAWING FILE NAME: L:\2017 Storm Damage\217377_Wilder Ridge Rd PM 5.33\Design\217377.d		REVIEWED BY: JAB		
	PLOT DATE: 5/29/2019		APPROVED BY: TRS		



CROSS SECTIONS
WILDER RIDGE 5.33
SCALE: 1"=10'



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: WILDER RIDGE ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO WILDER RIDGE RD. PM 5.33 CROSS SECTIONS (1+70 TO 2+20)	SHEET 7 OF 12
	ROAD NO: C58010	MILE POST: 5.33	ENGINEERING		
	PROJECT NO: FEMA 4308-DR-CA PW-669	CAL OES ID: 023-00000	DESIGNED BY: MMS		
	CONTRACT NO: 217377		DRAWN BY: MMS		
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	PLOT DATE: 5/29/2019		APPROVED BY: TRS		



CROSS SECTIONS
WILDER RIDGE 5.33
SCALE: 1"=10'



BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: WILDER RIDGE ROAD PM 5.70	DESIGN SECTION
ROAD NO: C58010	ENGINEERING DIVISION
AGREEMENT NO. FEMA 4301-DR-CA PW-1022	DESIGNED BY: JAB
CONTRACT NO.: 217540	DRAWN BY: JAB
DRAWING FILE NAME:	REVIEWED BY: JAB
PLOT DATE: 5/29/2019	APPROVED BY: ARS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

WILDER RIDGE ROAD PM 5.70

SITE PLAN AND SURVEY CONTROL

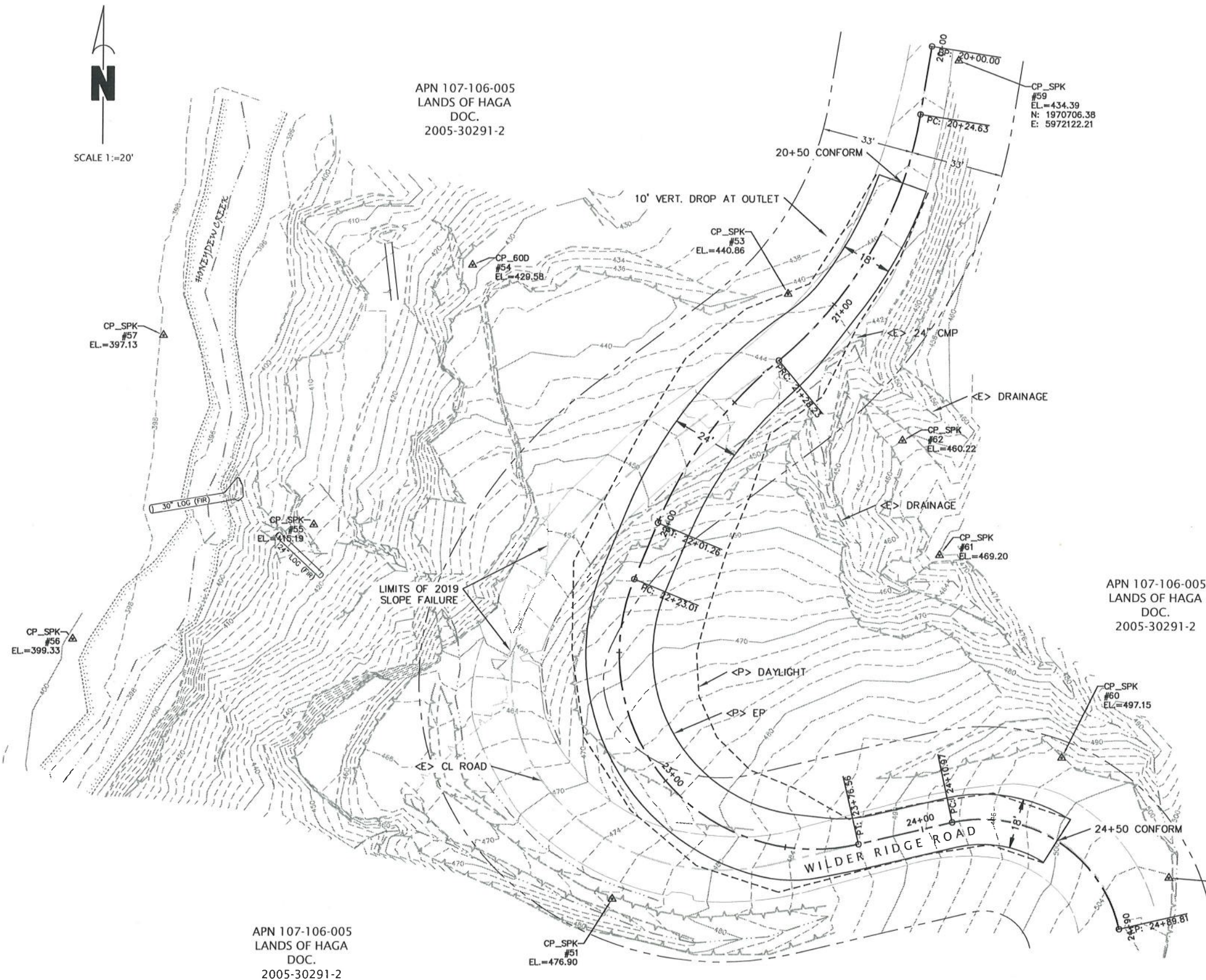
SHEET
8
OF
12

SURVEY CONTROL COORDINATE LIST

Point #	Northing	Easting	Elevation	Description
50	1970524.1855'	5971965.7790'	456.41'	CP_MAG
51	1970406.1690'	5971999.7877'	476.90'	CP_SPK
52	1970444.1462'	5971922.2576'	467.65'	CP_SPK
53	1970622.8179'	5972061.5585'	440.86'	CP_SPK
54	1970633.1316'	5971948.7480'	429.58'	CP_60D
55	1970540.0899'	5971892.4854'	415.19'	CP_SPK
56	1970499.2088'	5971806.2877'	399.33'	CP_SPK
57	1970607.8824'	5971838.1480'	397.13'	CP_SPK
160	1969669.4352'	5972169.8189'	666.89'	CP60_JN1129_BM_A1465

SURVEY NOTES

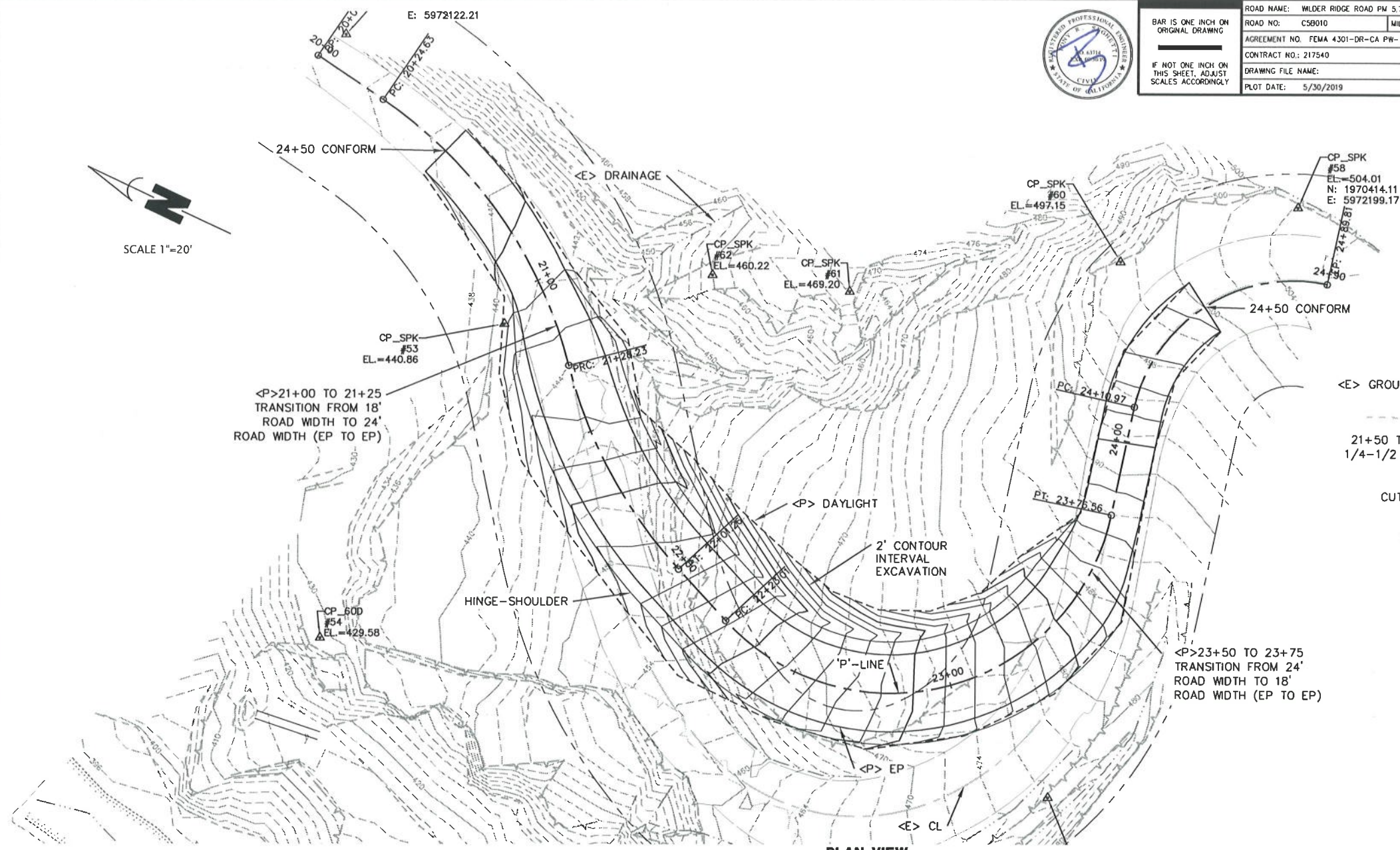
- The purpose of this survey is to determine topography at the road failure on Wilder Ridge Road PM 5.70. Field work was performed by Points West Surveying commencing on October 23, 2018 and concluding October 31, 2018. This survey reflects conditions at that time. This survey was updated April 12, 2019 to locate new scarp which has retreated into roadway as indicated. Area below new scarp was not re-surveyed- old data shown below scarp is not reliable at this point. April 2019 survey work also includes additional survey data to the east of the road for design of by-pass road.
- Underground utilities shown hereon are based on ties made in the field to visible utility structures. The only utility found was a storm drain structure. The existence of other underground utilities, if any, is unknown. Contact Underground Service Alert (U.S.A.) at 1-800-227-2600 before excavating to confirm location and existence of underground utilities shown or not shown hereon.
- Coordinates for this survey are California Coordinate System of 1983 (CCS83) based on a static GPS Control Survey. The mapping angle is 1 degree 22 minutes 49 seconds- rotate bearings counterclockwise by this angle to obtain "True" or Geodetic bearings. Grid distances shown should be divided by the Combined Scale factor of 0.99993272 to obtain ground distances. Horizontal control is NAD 83 (2011), Epoch 2010.0, based static GPS tie to NGS PID "LU2349", an NGS HPGN Network point in Weott with designation "HPGN D CA 01 MC". Vertical control is based on NGS PID "LV1202", NAVD 88 datum, with elevation of 666.89 feet.
- Only trees greater than 12 inches in diameter were located- numerous other trees exist in surveyed area and are not shown.
- The County of Humboldt performed a survey on an adjacent site in May 2009 (PM 5.33). The County survey for that site indicates a right of way of 66 foot width based on the Road Register Book, pages 18-33 and pages 104-105. This survey located the physical centerline of the road as the centerline of the 66 foot wide right of way strip. This portion of Wilder Ridge Road falls entirely on AP# 107-106-005, Lands of Haga, as described in Document No. 2003-30291-2.





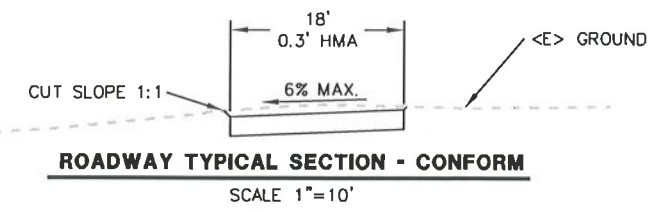
ROAD NAME: WILDER RIDGE ROAD PM 5.70	DESIGN SECTION
ROAD NO: C58010	ENGINEERING DIVISION
AGREEMENT NO. FEMA 4301-DR-CA PW-1022	DESIGNED BY: JAB
CONTRACT NO: 217540	DRAWN BY: JAB
DRAWING FILE NAME:	REVIEWED BY: JAB
PLOT DATE: 5/30/2019	APPROVED BY: ARS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 9 OF 12
WILDER RIDGE ROAD PM 5.70	
PLAN, PROFILE AND TYPICAL SECTIONS	



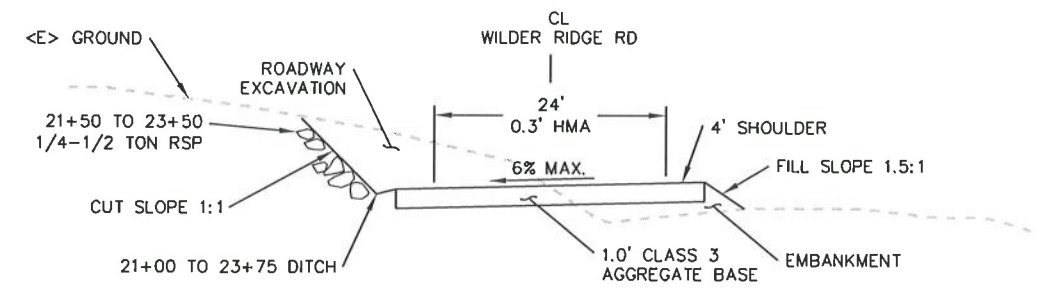
PLAN VIEW

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



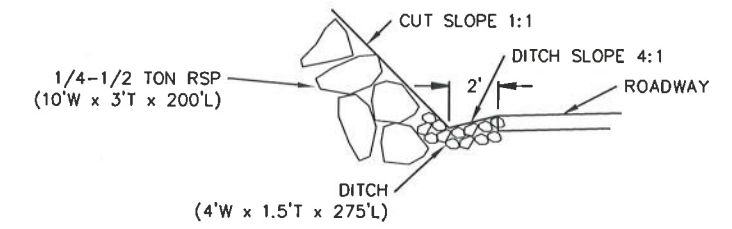
ROADWAY TYPICAL SECTION - CONFORM

SCALE 1"=10'



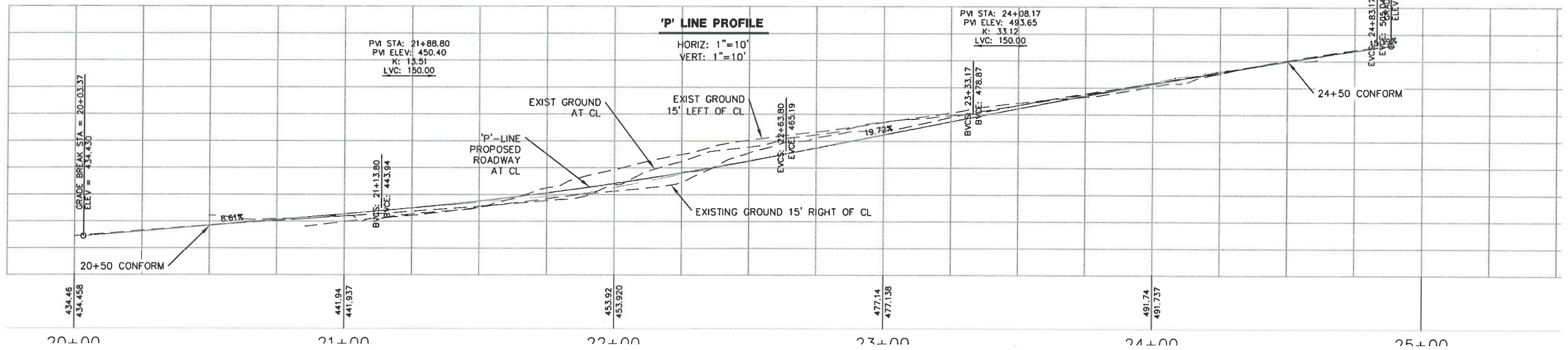
ROADWAY TYPICAL SECTION

SCALE 1"=10'



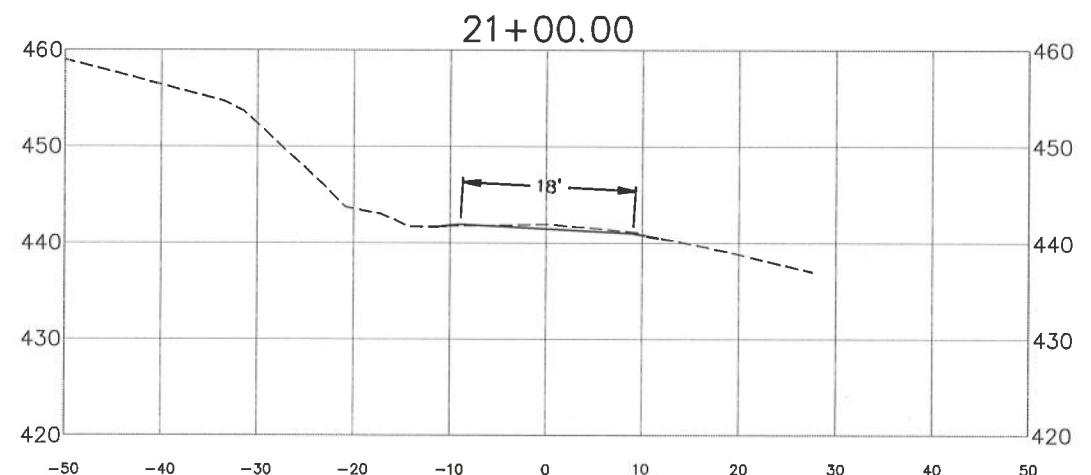
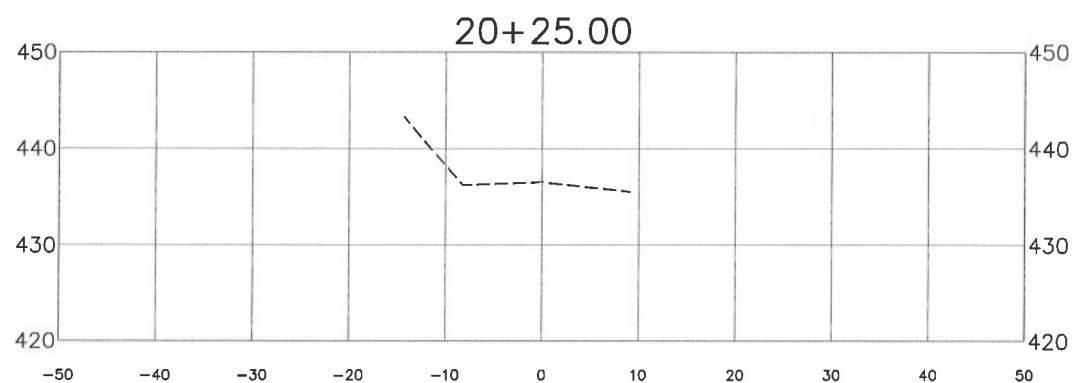
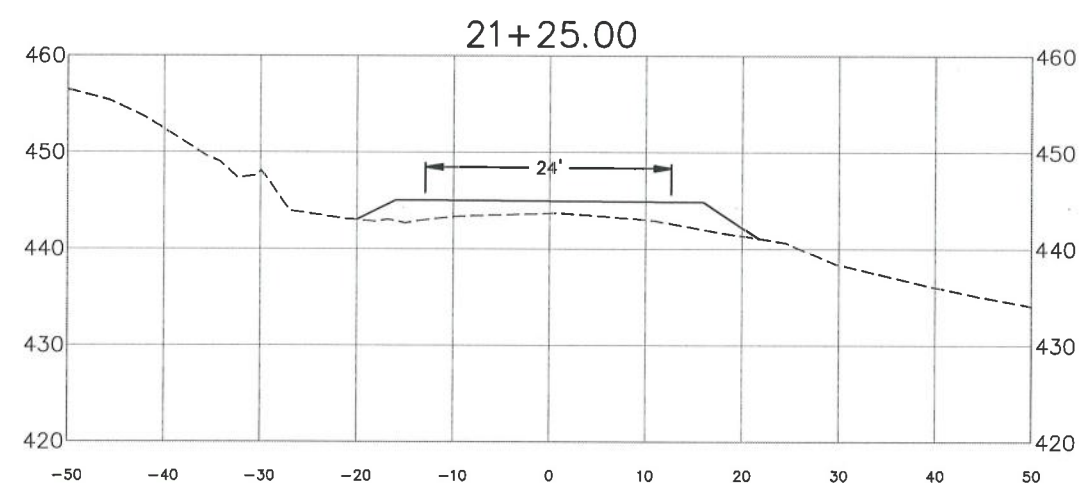
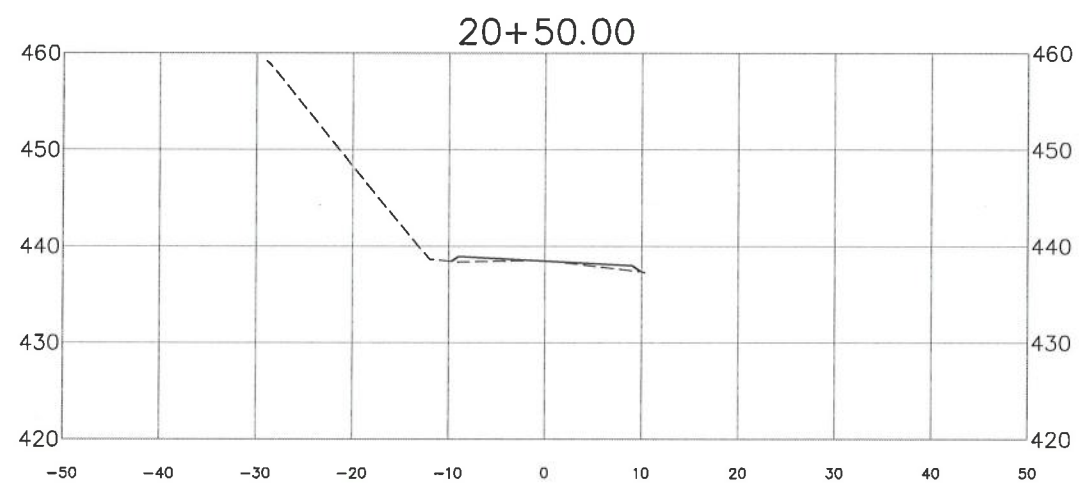
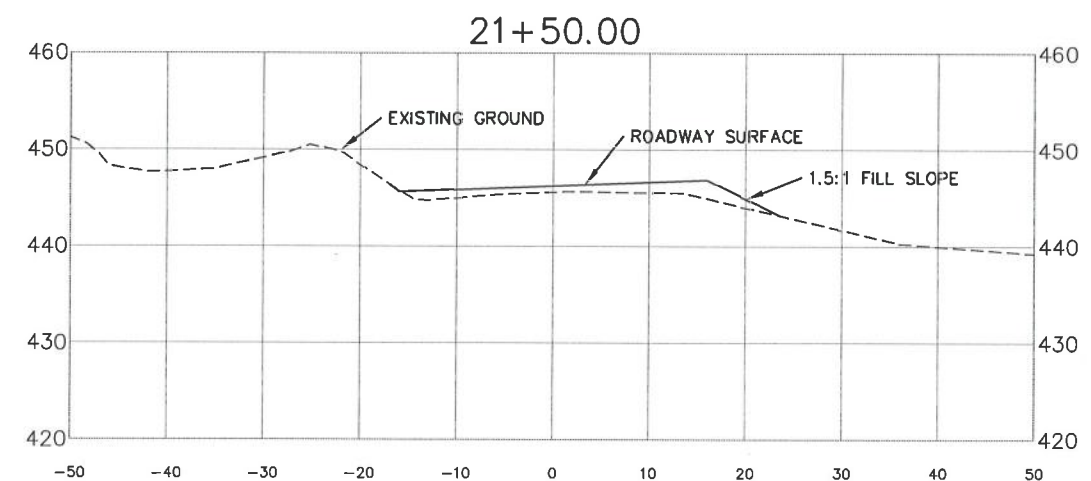
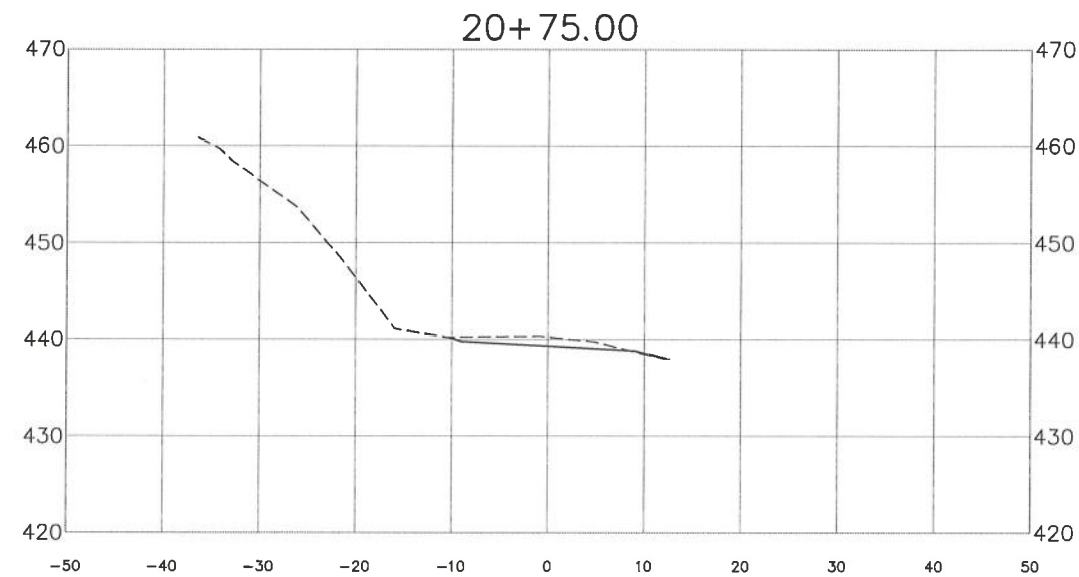
RSP AND DITCH DETAIL

NOT-TO-SCALE





BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: WILDER RIDGE ROAD PM 5.70		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS WILDER RIDGE ROAD PM 5.70 CROSS SECTIONS	SHEET 10 OF 12
	ROAD NO: CSB010	MILE POST: 5.70	ENGINEERING DIVISION		
	AGREEMENT NO. FEMA 4301-DR-CA PW-1022		DESIGNED BY: JAB		
	CONTRACT NO.: 217540		DRAWN BY: JAB		
	DRAWING FILE NAME:		REVIEWED BY: JAB		
	PLOT DATE: 5/30/2019		APPROVED BY: ARS		





BAR IS ONE INCH ON
ORIGINAL DRAWING

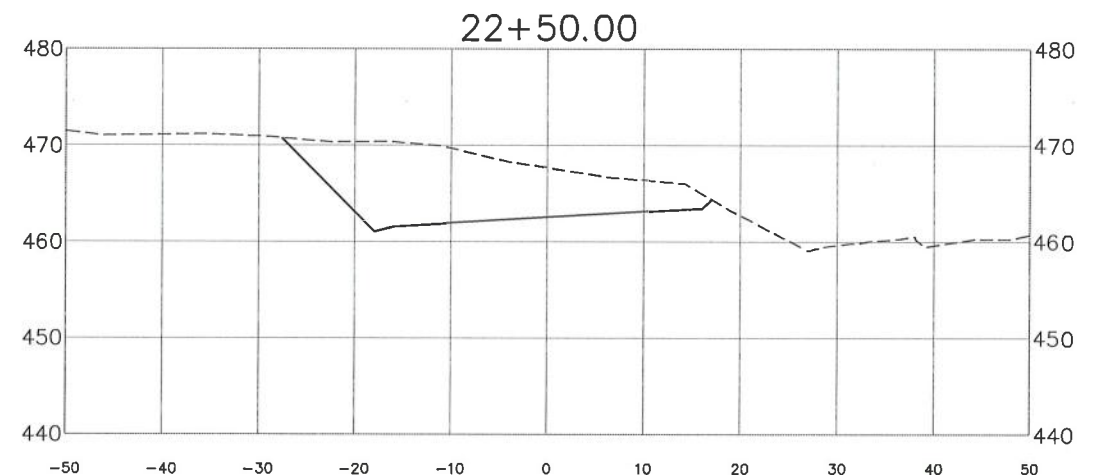
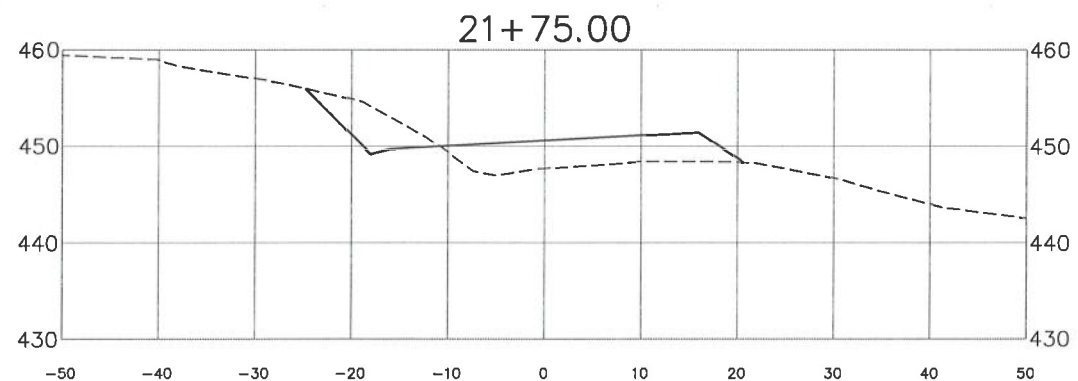
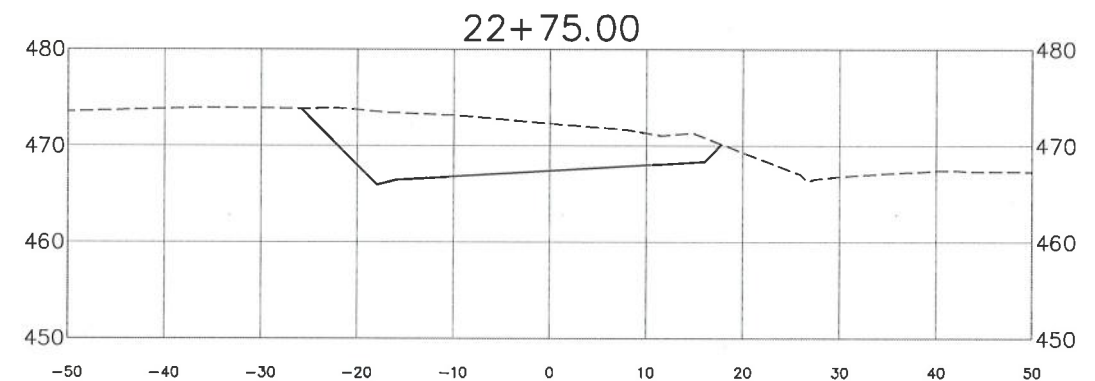
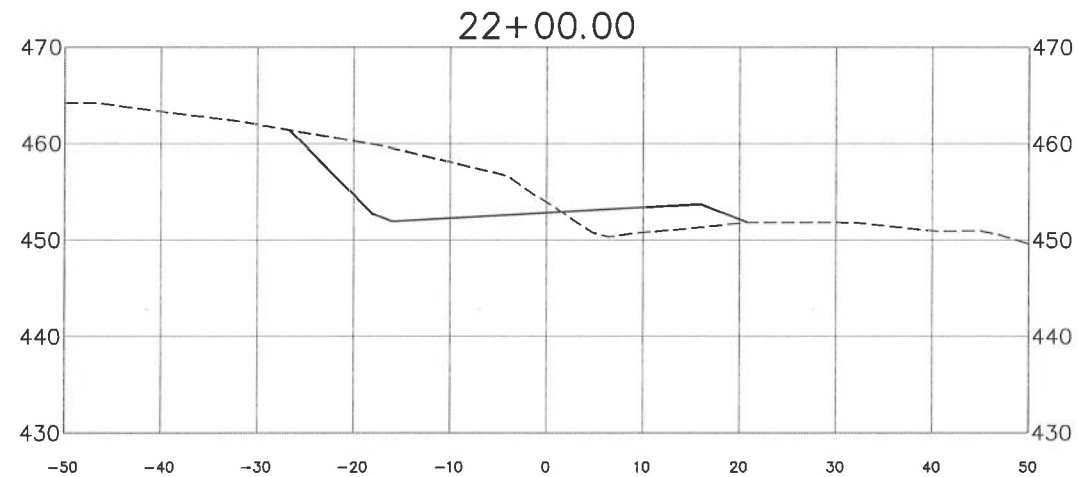
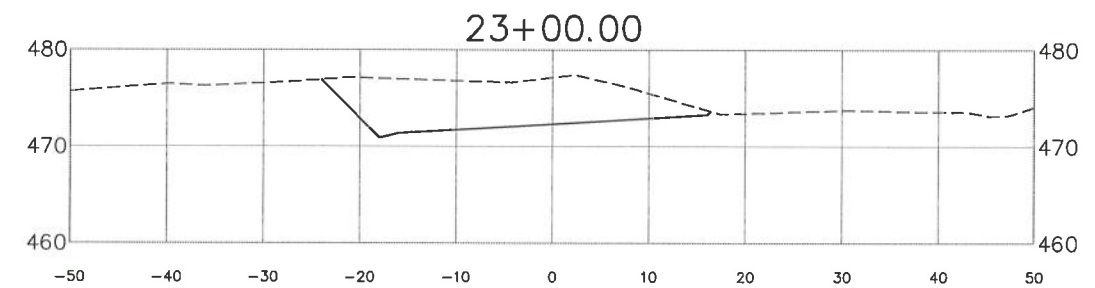
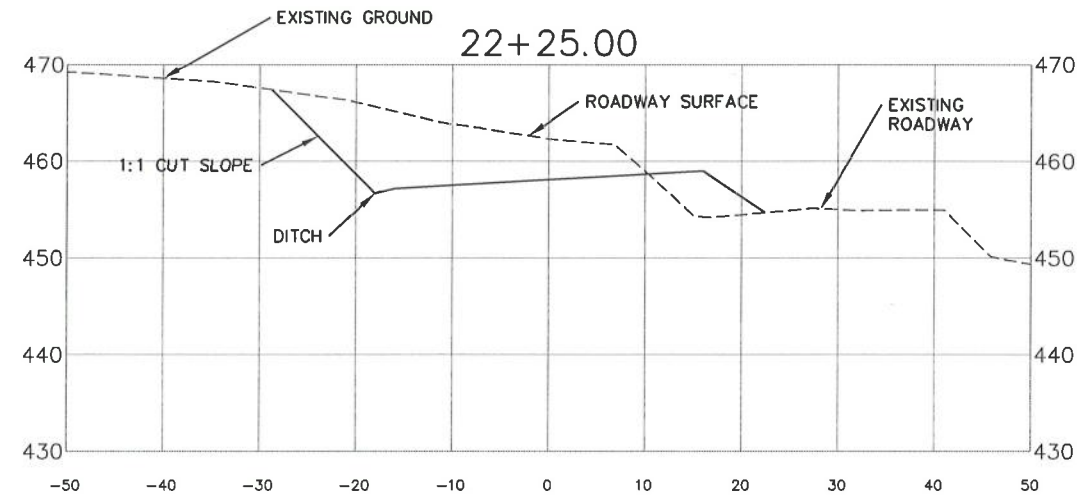
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: WILDER RIDGE ROAD PM 5.70
ROAD NO: C58010 MILE POST: 5.70
AGREEMENT NO. FEMA 4301-DR-CA PW-1022
CONTRACT NO.: 217540
DRAWING FILE NAME:
PLOT DATE: 5/30/2019

DESIGN SECTION
ENGINEERING DIVISION
DESIGNED BY: JAB
DRAWN BY: JAB
REVIEWED BY: JAB
APPROVED BY: ARS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
WILDER RIDGE ROAD PM 5.70
CROSS SECTIONS

SHEET
11
OF
12





BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: WILDER RIDGE ROAD PM 5.70

ROAD NO: C58010

MILE POST: 5.70

AGREEMENT NO. FEMA 4301-DR-CA PW-1022

CONTRACT NO.: 217540

DRAWING FILE NAME:

PLOT DATE: 5/30/2019

DESIGN SECTION

ENGINEERING DIVISION

DESIGNED BY: JAB

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COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

WILDER RIDGE ROAD PM 5.70

CROSS SECTIONS

SHEET

12

OF

12

