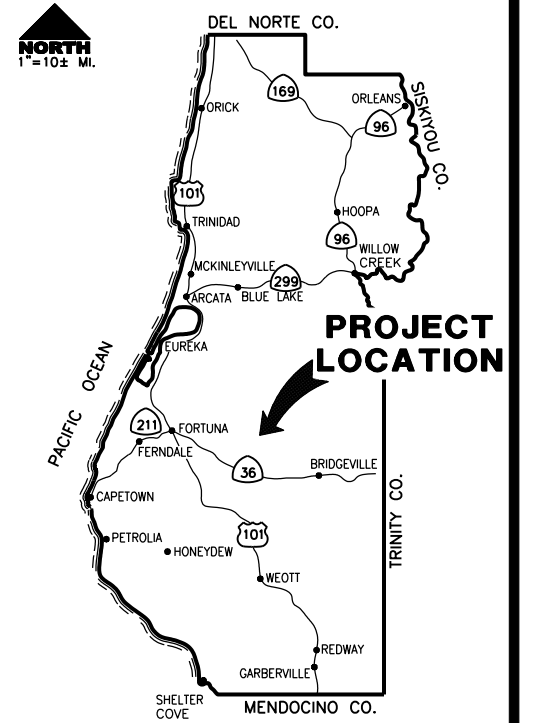


**FUNDING SOURCES**

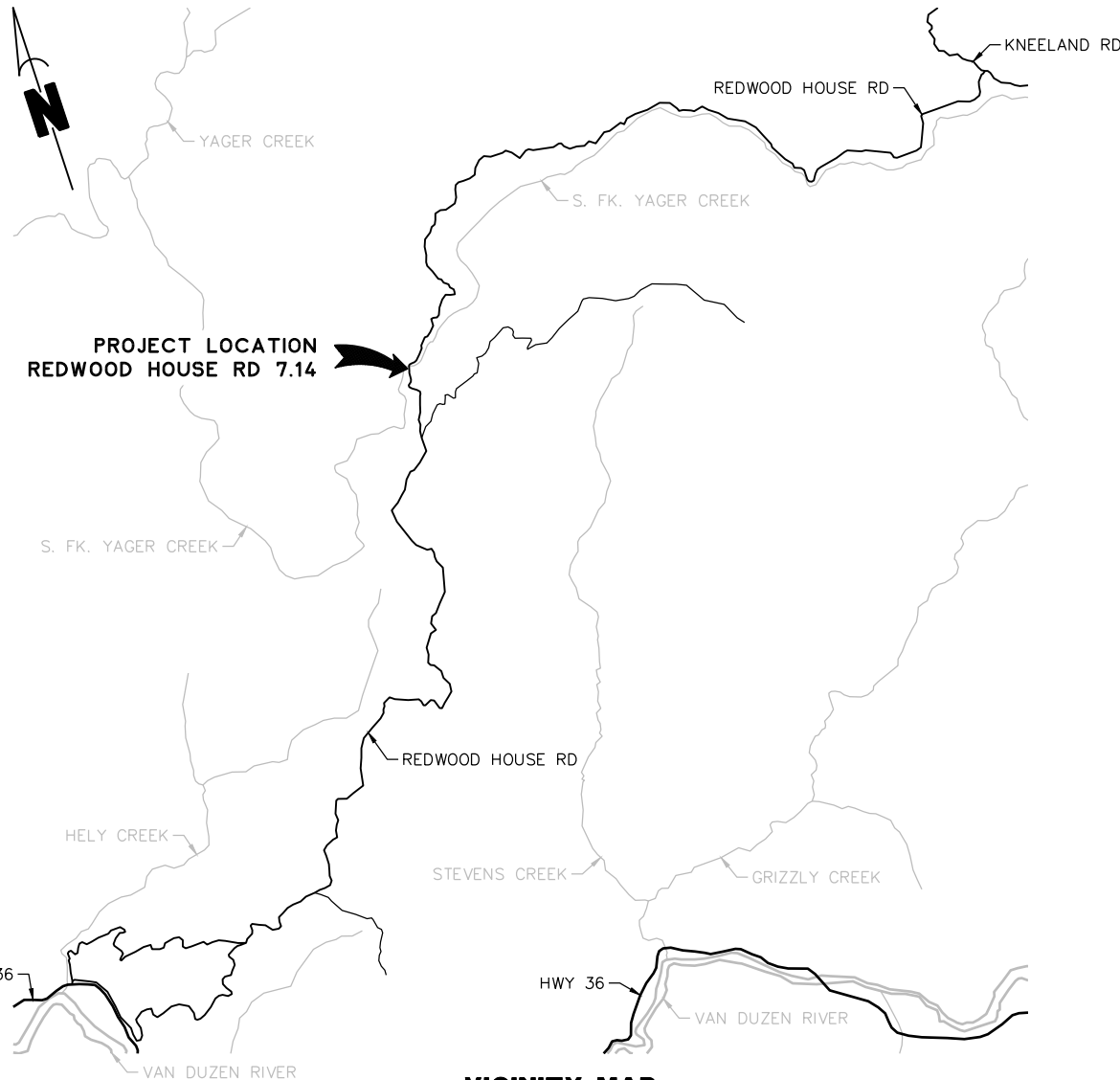


**COUNTY OF HUMBOLDT**  
**DEPARTMENT OF PUBLIC WORKS**  
**PROJECT PLANS FOR CONSTRUCTION OF**  
**STORM DAMAGE REPAIRS TO**  
**REDWOOD HOUSE ROAD PM 7.14**  
**PROJECT NO. FEMA-4434-DR-CA PW-27**  
**CONTRACT NO. 219303**

BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD</b> <b>COVER SHEET, INDEX AND MAPS</b>	SHEET <b>1</b> OF <b>11</b>	
	ROAD NO.: 5F200	MILE POST: 7.14			DESIGNED BY: JAB
	PROJECT NO.: FEMA-4434-DR-CA PW-27	CONTRACT NO.: 219303			DRAWN BY: RMD
	DRAWING FILE NAME: 219303 CDSN001-003	PLOT DATE: 04/12/2021			REVISION DATE:



**LOCATION MAP**  
SCALE: 1" = 10± MILE



**VICINITY MAP**  
SCALE: 1" = 3000'

**INDEX OF SHEETS**

- COVER SHEET, INDEX AND MAPS
- CONSTRUCTION SIGNS, STAGING & STOCKPILE LOCATIONS AND QUANTITIES
- SURVEY CONTROL
- TYPICAL SECTIONS
- YAGER CREEK PLAN
- YAGER CREEK PROFILE
- REDWOOD HOUSE ROAD PLAN AND PROFILE
- YAGER CREEK TEMPORARY DIVERSION PLAN
- EROSION CONTROL AND REVEGETATION PLAN
- YAGER CREEK SECTION VIEWS
- REDWOOD HOUSE ROAD SECTION VIEWS

**NOTES**

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.  
 REFERENCE TO CALTRANS STANDARD PLANS DATED JULY 2018. (SEE APPLICABLE STAN PLAN LIST IN SPECIAL PROVISIONS)  
 GEOTECHNICAL MEMORANDUM BY CRAWFORD & ASSOCIATES, INC. FINAL DATED APRIL 2021

**DESIGN DESIGNATION**

DESIGN FLOW FOR YAGER CREEK, Q100 = 2700cfs

**RECOMMENDED**

JEFFREY A. BALL  
 RCE 70631, EXP. 6/30/2021  
 04-12-2021  
 DATE



**APPROVED**

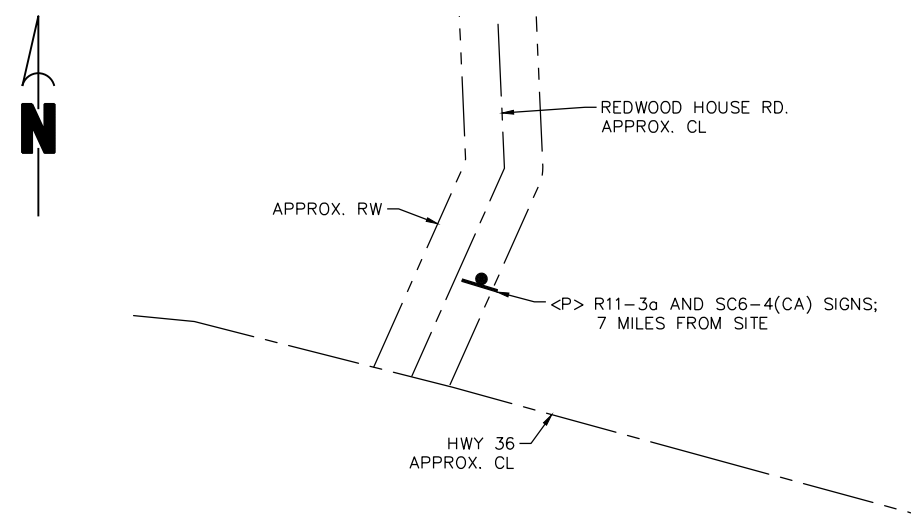
TONY R. SEGHETTI  
 RCE 63714, EXP. 9/30/2022  
 04-12-2021  
 DATE



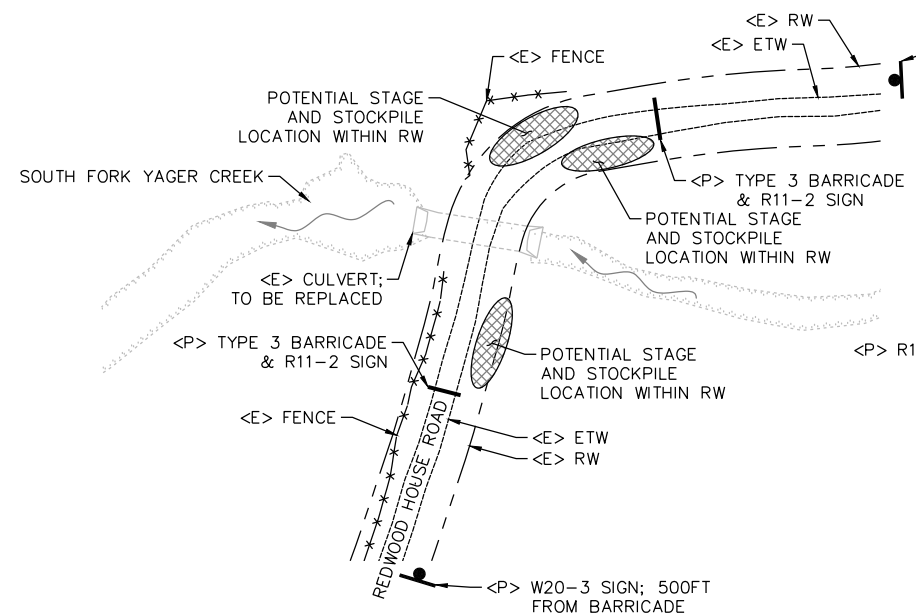
ORIGINAL LOW BID PRICE	CONSTRUCTED BY	RESIDENT ENGINEER
	PROJECT COMPLETED	CONSTRUCTION COST \$



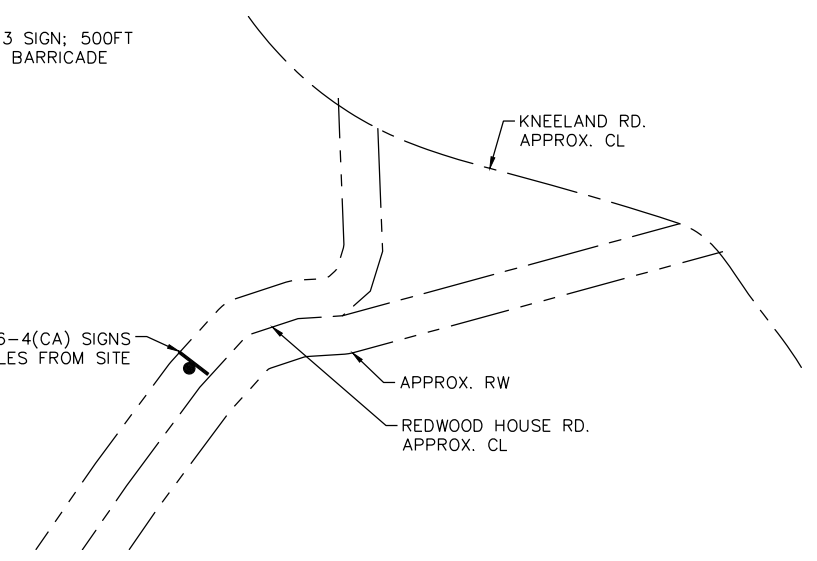
ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION: ENGINEERING	<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD</b> <b>CONSTRUCTION SIGNS, STAGING &amp; STOCKPILE LOCATIONS AND QUANTITIES</b>	SHEET <b>2</b> OF <b>11</b>
ROAD NO.: 5F200	MILE POST: 7.14		
PROJECT NO.: FEMA-4434-DR-CA PW-27	DESIGNED BY: JAB		
CONTRACT NO.: 219303	DRAWN BY: RMD		
DRAWING FILE NAME: 219303 CDSN001-003	REVIEWED BY: JAB		
PLOT DATE: 04/12/2021	REVISION DATE:	APPROVED BY: TRS	



**REDWOOD HOUSE RD AT HWY 36**  
SCALE 1"=50'



**REDWOOD HOUSE RD AT S. FK. YAGER CRK**  
SCALE 1"=50'



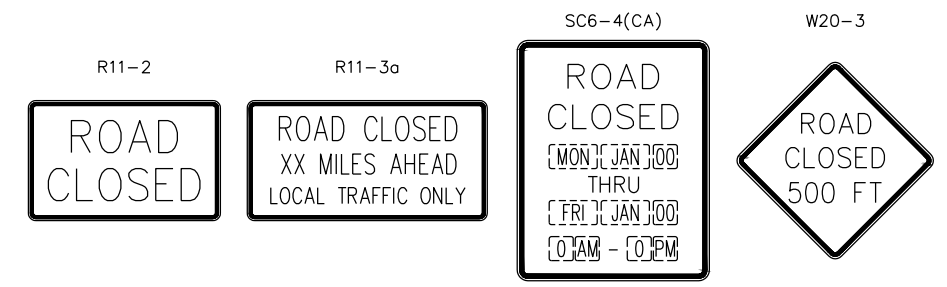
**REDWOOD HOUSE RD AT KNEELAND RD**  
SCALE 1"=50'

**STOCKPILE NOTES**

- 1) MANAGE MATERIAL STOCKPILE PER SECTION 13-4.03(C) OF CALTRANS STANDARD SPECIFICATION
- 2) IF STOCKPILE AREA IS IN A TURNOUT, THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
- 3) STOCKPILE LOCATION SHOWN HAS BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT. ALTERNATIVE SITES MAY BE APPROVED THROUGH PUBLIC WORKS IN WRITING.

**CONSTRUCTION AREA SIGN SUMMARY**

SIGN CODE	QTY	SIGN MESSAGE	PANEL SIZE	NUMBER & POST SIZE
R11-2	2	ROAD CLOSED	30" x 48"	N/A
R11-3a	2	ROAD CLOSED ... TRAFFIC ONLY	30" x 60"	(2) 4" x 4"
SC6-4(CA)	2	ROAD CLOSED ... 0 AM - 0 PM	48" x 60"	(2) 4" x 4"
W20-3	2	ROAD CLOSED 500FT	36" x 36"	(1) 4" x 4"

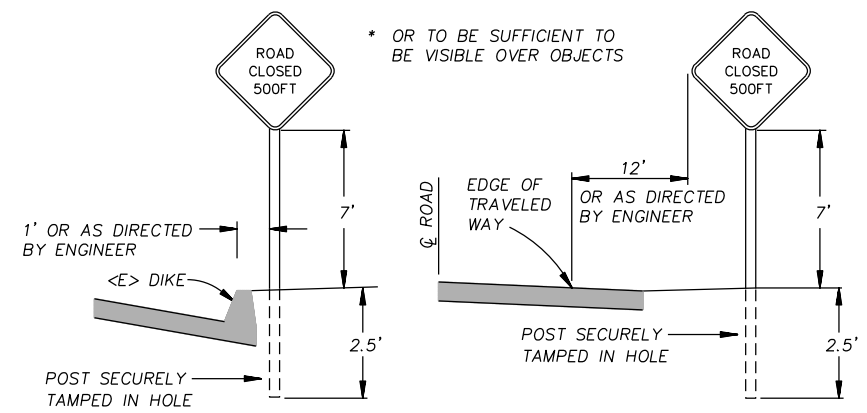


**QUANTITIES**

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	4
4	130100	Job Site Management	LS	1
5	130200	Prepare Water Pollution Control Program	LS	1
6	130680	Temporary Silt Fence	LF	90
7	130900	Temporary Concrete Washout	LS	1
8	131201	Temporary Creek Diversion System	LS	1
9	170103	Clearing and Grubbing	LS	1
10	192001	F Structure Excavation	CY	1,930
11	193001	F Structure Backfill (Arch Culvert)	CY	830
12	210212	Dry Seed	SF	1,390
13	210420	Straw	SF	1,390
14	210500	Willow Stakes	EA	40
15	210501	Alder Tree	EA	10
16	260203	Class 2 Aggregate Base	CY	82
17	510050	F Structural Concrete (Arch Culvert Footing)	CY	111
18	520101	F Bar Reinforcing Steel (Arch Culvert Footing)	LBS	2,560
19	675000	P Galvanized Steel Structure Plate Low-Profile Arch Culvert (31'8" x 12'8"	LF	75
20	710130	Remove Culvert	EA	1
21	720000	Engineered Streambed Material	CY	304
22	723050	Rock Slope Protection (1/4 Ton, Class V, Method B)	CY	172
23	723020	Rock Slope Protection (1 Ton, Class VIII, Method A)	CY	167
24	999990	Mobilization	LS	1

**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) WHEN THROUGH TRAFFIC IS ALLOWED, 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.
- 7) INSTALL R11-3a AND SC6-4(CA) SIGNS WITH PLANNED CLOSURE DATES A MINIMUM OF 14 CALENDAR DAYS PRIOR TO IMPLEMENTING ROAD CLOSURE.



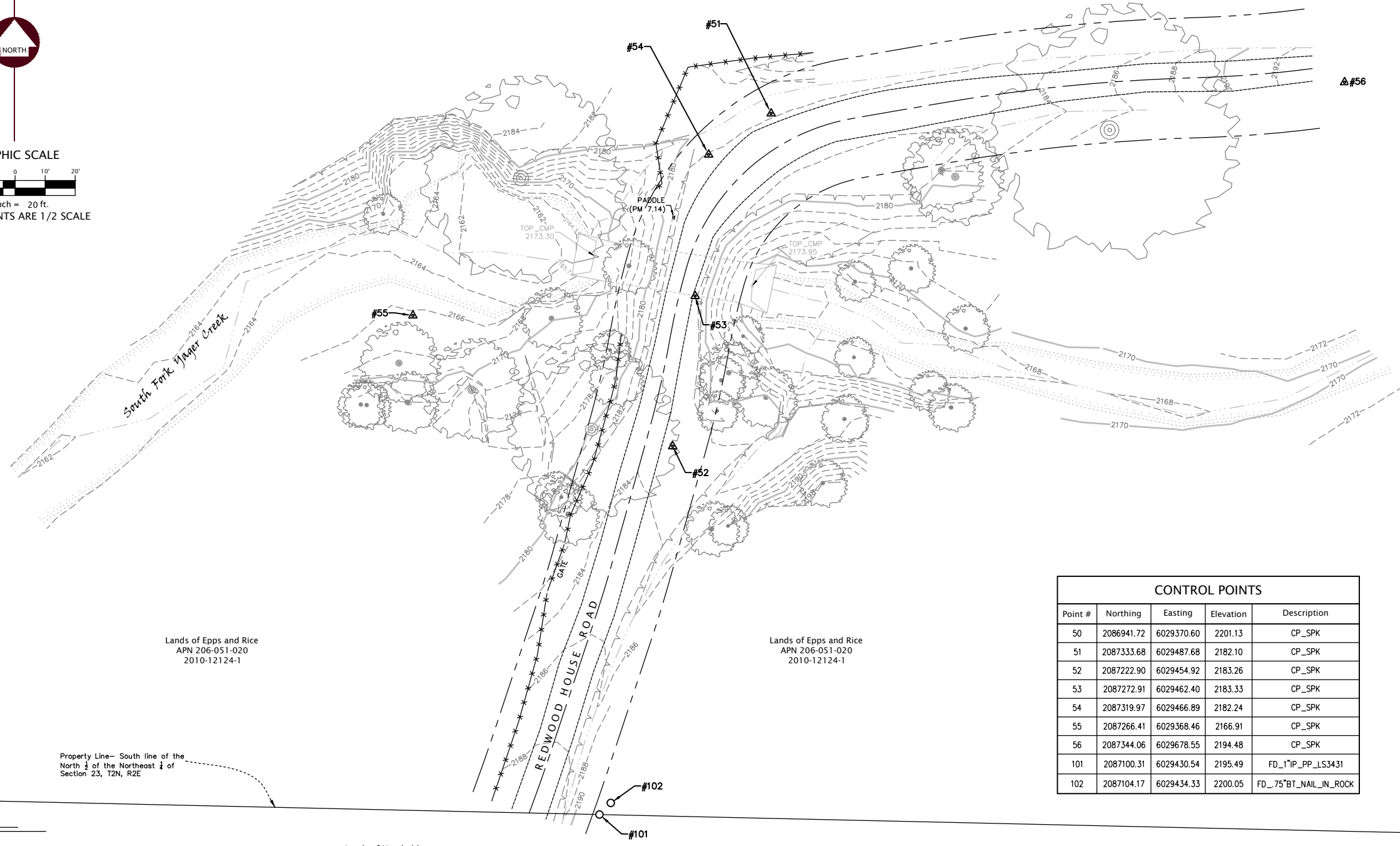
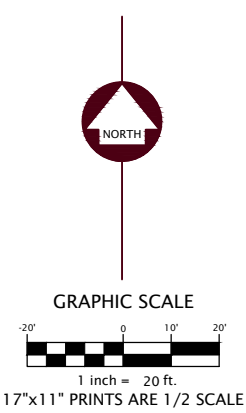
**RURAL CONSTRUCTION AREA SIGN**

- NOT TO SCALE -



BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION: ENGINEERING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO.: 5F200 MILE POST: 7.14	DESIGNED BY: JAB
	PROJECT NO.: FEMA-4434-DR-CA PW-27	DRAWN BY: RMD
	CONTRACT NO.: 219303	REVIEWED BY: JAB
	DRAWING FILE NAME: 219303 CDSN001-003	APPROVED BY: TRS
	PLOT DATE: 04/12/2021	REVISION DATE:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD</b> <b>SURVEY CONTROL</b>	SHEET <b>3</b> OF <b>11</b>
---	--------------------------------------



**SURVEY NOTES:**

- The purpose of this survey is to determine topography for a culvert failure at PM 7.14 of Redwood House Road, Humboldt County, CA. This survey reflects conditions on the site at time of survey; field work was performed May 20 through 28, 2020.
- Underground utilities research was not performed. No evidence of underground utilities was observed except for storm culvert shown hereon. The original size of the culvert is unknown as it is crushed into an oval shape with bottom at ends rusted out. We shot top of culvert with no size for this reason. Photos of culvert are provided in transmittal of this drawing. See Underground Utility Note hereon.
- 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 held for horizontal positions shown hereon. The mapping angle is 1 degree 15 minutes 09 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 0.99980702 to obtain ground distances. Mapping angle and grid scale factor are taken at control point number 50, a 12" spike. Elevations are NAVD 88 datum based on OPUS solution utilizing the GEOID 12B model: an elevation of 2201.13 feet was measured at the aforementioned Control Point 50.
- Only trees greater than 12 inches in diameter were located, numerous other smaller trees exist and are not shown. Trees are generally located breast high. Their locations should be considered approximate as not all trees are growing vertically.
- No boundary survey was performed as part of this project. A found 1" iron pipe, LS 3431 per Book 75 of Surveys, page 57, was used to show the approximate location of the north line of Lands of Humboldt Redwood Co. Ownership shown is based on Humboldt County Assessor data.
- Per the County of Humboldt the right of way shown on this survey is fifty feet in width centered on the existing centerline of the road based on data in the Road Register pages 112-114.

CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
50	2086941.72	6029370.60	2201.13	CP_SPK
51	2087333.68	6029487.68	2182.10	CP_SPK
52	2087222.90	6029454.92	2183.26	CP_SPK
53	2087272.91	6029462.40	2183.33	CP_SPK
54	2087319.97	6029466.89	2182.24	CP_SPK
55	2087266.41	6029368.46	2166.91	CP_SPK
56	2087344.06	6029678.55	2194.48	CP_SPK
101	2087100.31	6029430.54	2195.49	FD_1"IP_PP_LS3431
102	2087104.17	6029434.33	2200.05	FD_75"BT_NAIL_IN_ROCK

**LEGEND**

- SURVEY CONTROL POINT
- FOUND RECORD SURVEY MONUMENT
- RIGHT OF WAY CENTERLINE
- RIGHT OF WAY EASEMENT LINES
- DRAINAGE FLOW LINE
- EDGE OF TRAVELED WAY (DIRT ROAD)
- EXISTING GROUND CONTOURS (TWO FOOT INTERVALS)
- TOP OF SLOPE / GRADE BREAK
- STORM DRAIN CULVERT
- OVERHEAD TELEPHONE LINE
- TELEPHONE POLE

**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. 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.**

**TOPOGRAPHIC SURVEY**

for  
**Redwood House Rd. PM 7.14**  
**Humboldt County Project No. 219303**  
**Task Order No. DPW2017-005-T49**  
 SECTION 23, T2N, R2E,  
 HUMBOLDT MERIDIAN  
 IN THE UNINCORPORATED AREA OF,  
 HUMBOLDT COUNTY, STATE OF CALIFORNIA  
 Date: June 2020

SCALE: 1" = 20' SHEET 1 OF 1



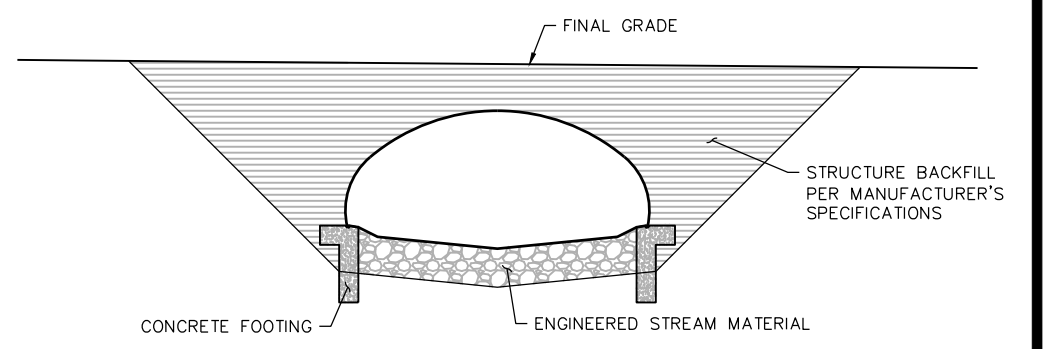
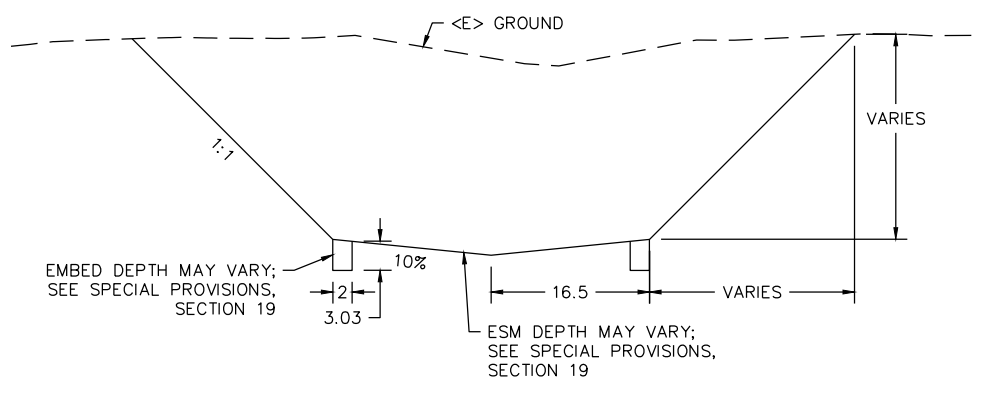
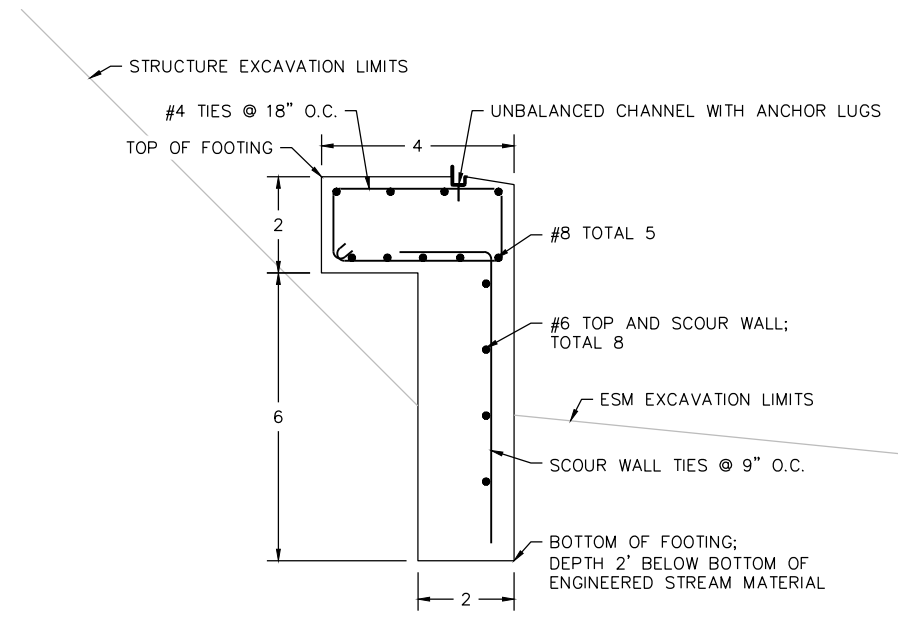
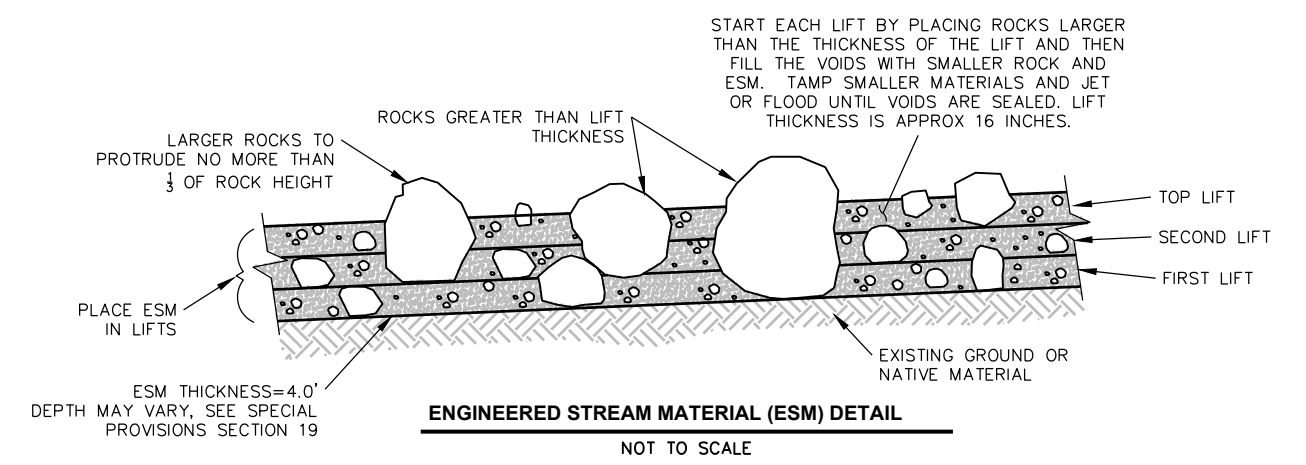
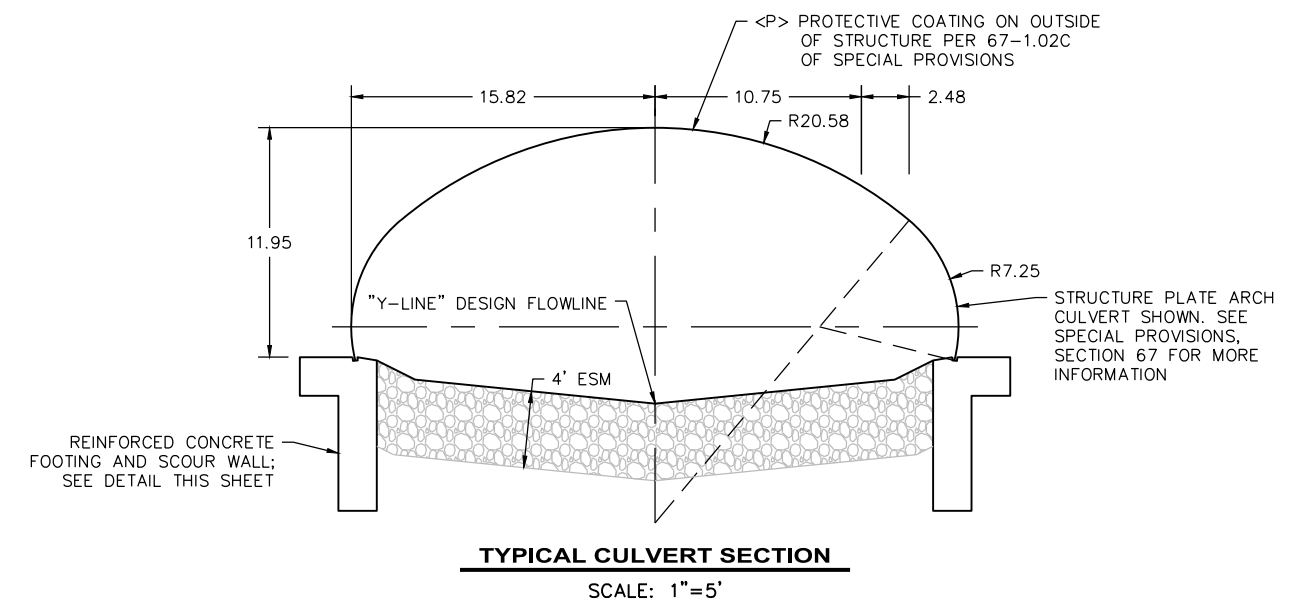
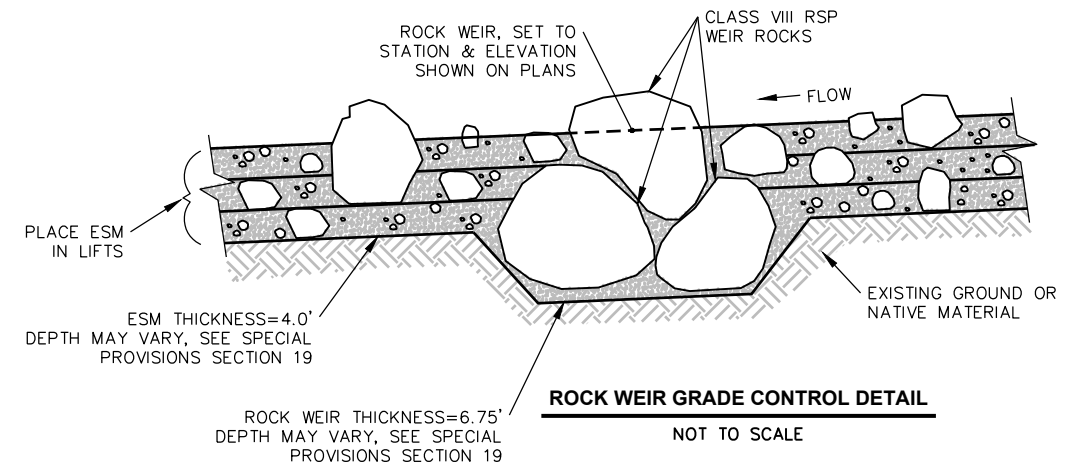
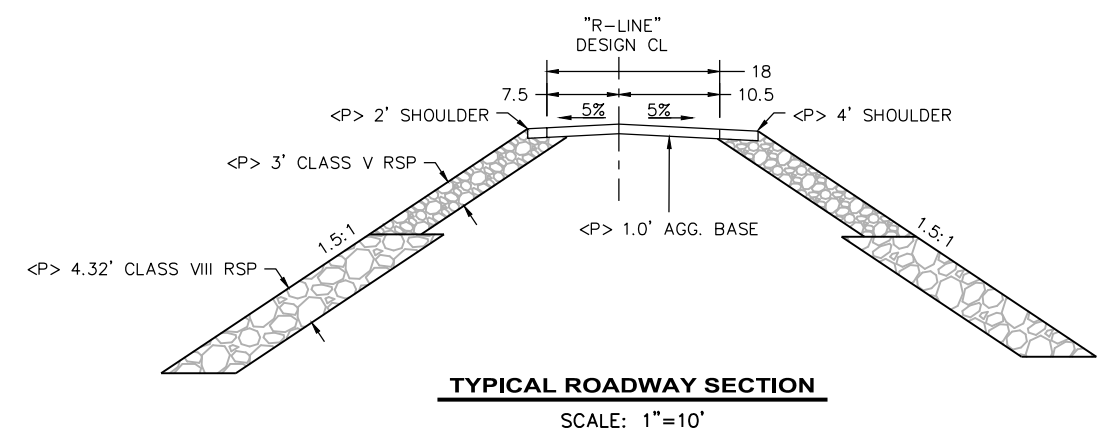




ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION
ROAD NO.: 5F200	ENGINEERING
PROJECT NO.: FEMA-4434-DR-CA PW-27	DESIGNED BY: JAB
CONTRACT NO.: 219303	DRAWN BY: RMD
DRAWING FILE NAME: 219303 CDSN004-010	REVIEWED BY: JAB
PLOT DATE: 04/12/2021	APPROVED BY: TRS
	REVISION DATE:

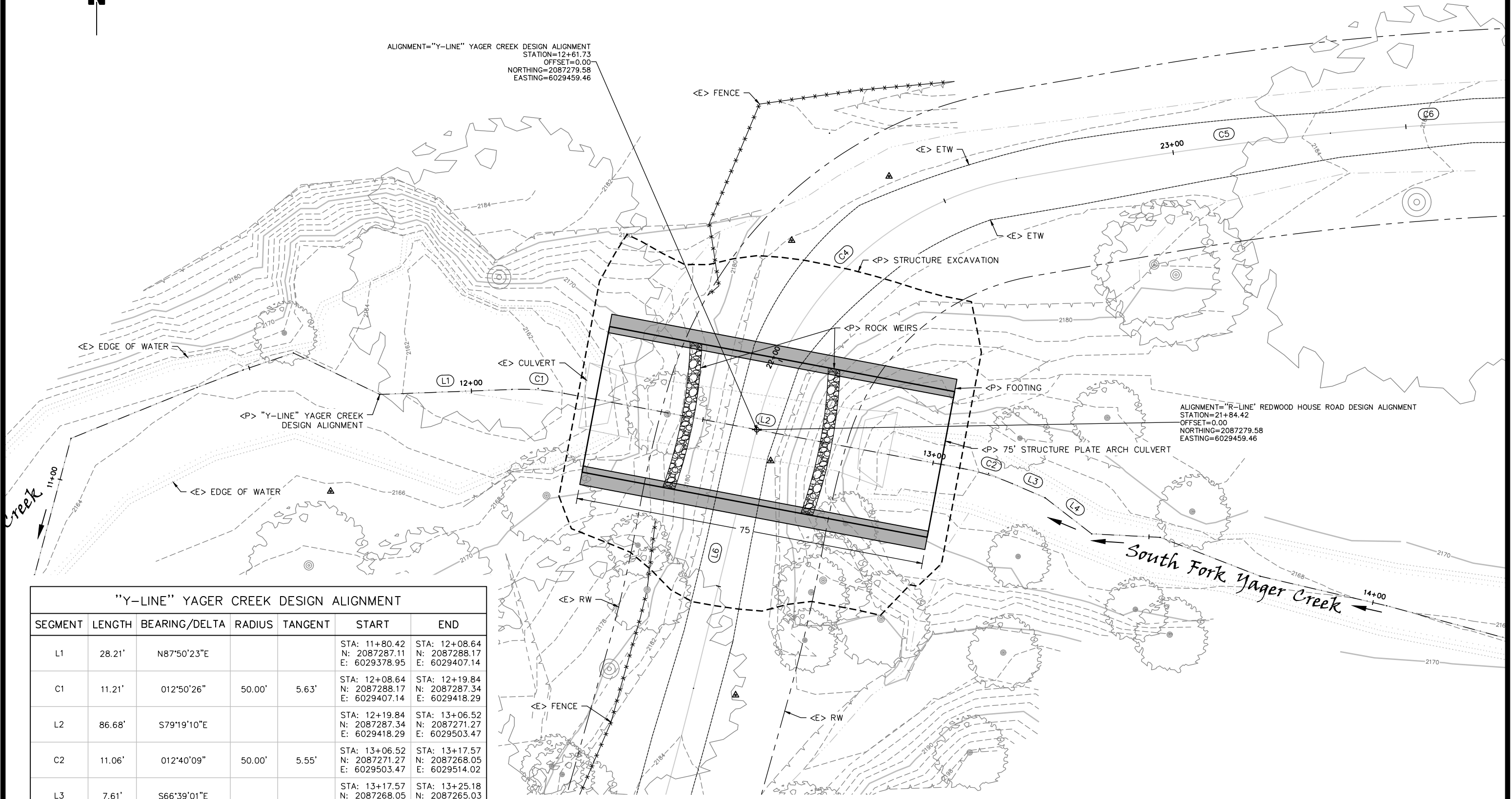
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD
TYPICAL SECTIONS

SHEET  
**4**  
OF  
**11**





BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD</b> <b>YAGER CREEK PLAN</b>	SHEET <b>5</b> OF <b>11</b>	
	ROAD NO.: 5F200	MILE POST: 7.14			DESIGNED BY: JAB
	PROJECT NO.: FEMA-4434-DR-CA PW-27				DRAWN BY: RMD
	CONTRACT NO.: 219303				REVIEWED BY: JAB
	DRAWING FILE NAME: 219303 CDSN004-010	REVISION DATE:	APPROVED BY: TRS		
	PLOT DATE: 04/12/2021				



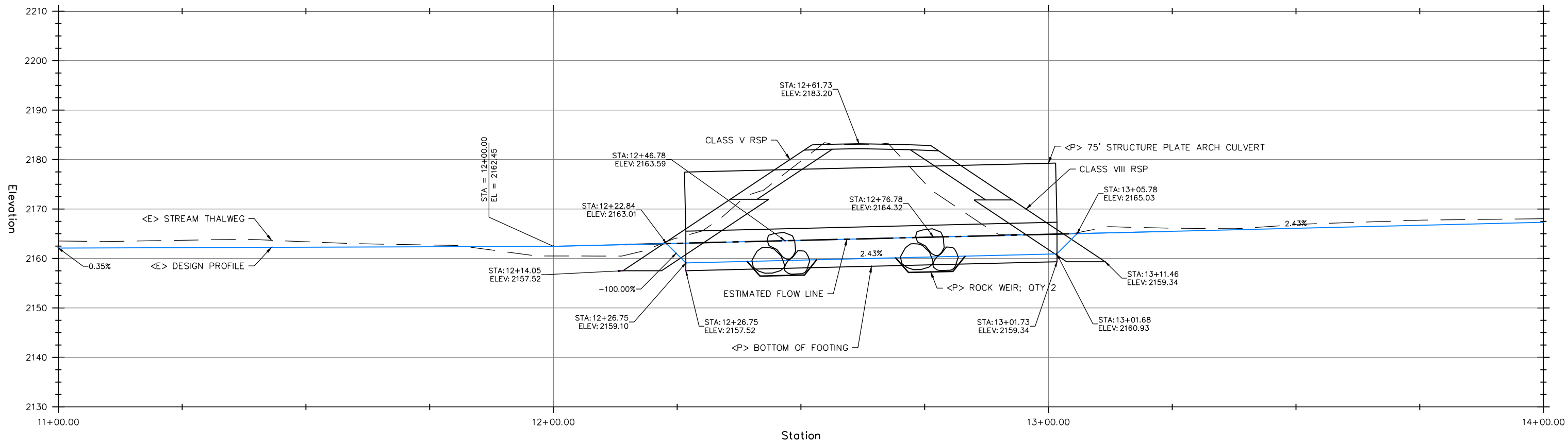
"Y-LINE" YAGER CREEK DESIGN ALIGNMENT						
SEGMENT	LENGTH	BEARING/DELTA	RADIUS	TANGENT	START	END
L1	28.21'	N87°50'23"E			STA: 11+80.42 N: 2087287.11 E: 6029378.95	STA: 12+08.64 N: 2087288.17 E: 6029407.14
C1	11.21'	012°50'26"	50.00'	5.63'	STA: 12+08.64 N: 2087288.17 E: 6029407.14	STA: 12+19.84 N: 2087287.34 E: 6029418.29
L2	86.68'	S79°19'10"E			STA: 12+19.84 N: 2087287.34 E: 6029418.29	STA: 13+06.52 N: 2087271.27 E: 6029503.47
C2	11.06'	012°40'09"	50.00'	5.55'	STA: 13+06.52 N: 2087271.27 E: 6029503.47	STA: 13+17.57 N: 2087268.05 E: 6029514.02
L3	7.61'	S66°39'01"E			STA: 13+17.57 N: 2087268.05 E: 6029514.02	STA: 13+25.18 N: 2087265.03 E: 6029521.01
L4	12.58'	S52°15'26"E			STA: 13+25.18 N: 2087265.03 E: 6029521.01	STA: 13+37.76 N: 2087257.33 E: 6029530.95

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



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD</b> <b>YAGER CREEK PROFILE</b>	SHEET <b>6</b> OF <b>11</b>	
	ROAD NO.: 5F200	MILE POST: 7.14			ENGINEERING
	PROJECT NO.: FEMA-4434-DR-CA PW-27				DESIGNED BY: JAB
	CONTRACT NO.: 219303				DRAWN BY: RMD
	DRAWING FILE NAME: 219303 CDSN004-010	REVIEWED BY: JAB			
	PLOT DATE: 04/12/2021	REVISION DATE:	APPROVED BY: TRS		

Profile View of "Y-LINE" Yager Creek Design Alignment



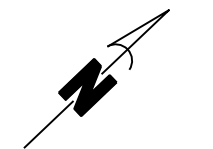
**PROFILE VIEW**  
SCALE: 1"=10'



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

ROAD NAME: REDWOOD HOUSE ROAD  
 ROAD NO.: 5F200  
 PROJECT NO.: FEMA-4434-DR-CA PW-27  
 CONTRACT NO.: 219303  
 DRAWING FILE NAME: 219303 CDSN004-010  
 PLOT DATE: 04/12/2021

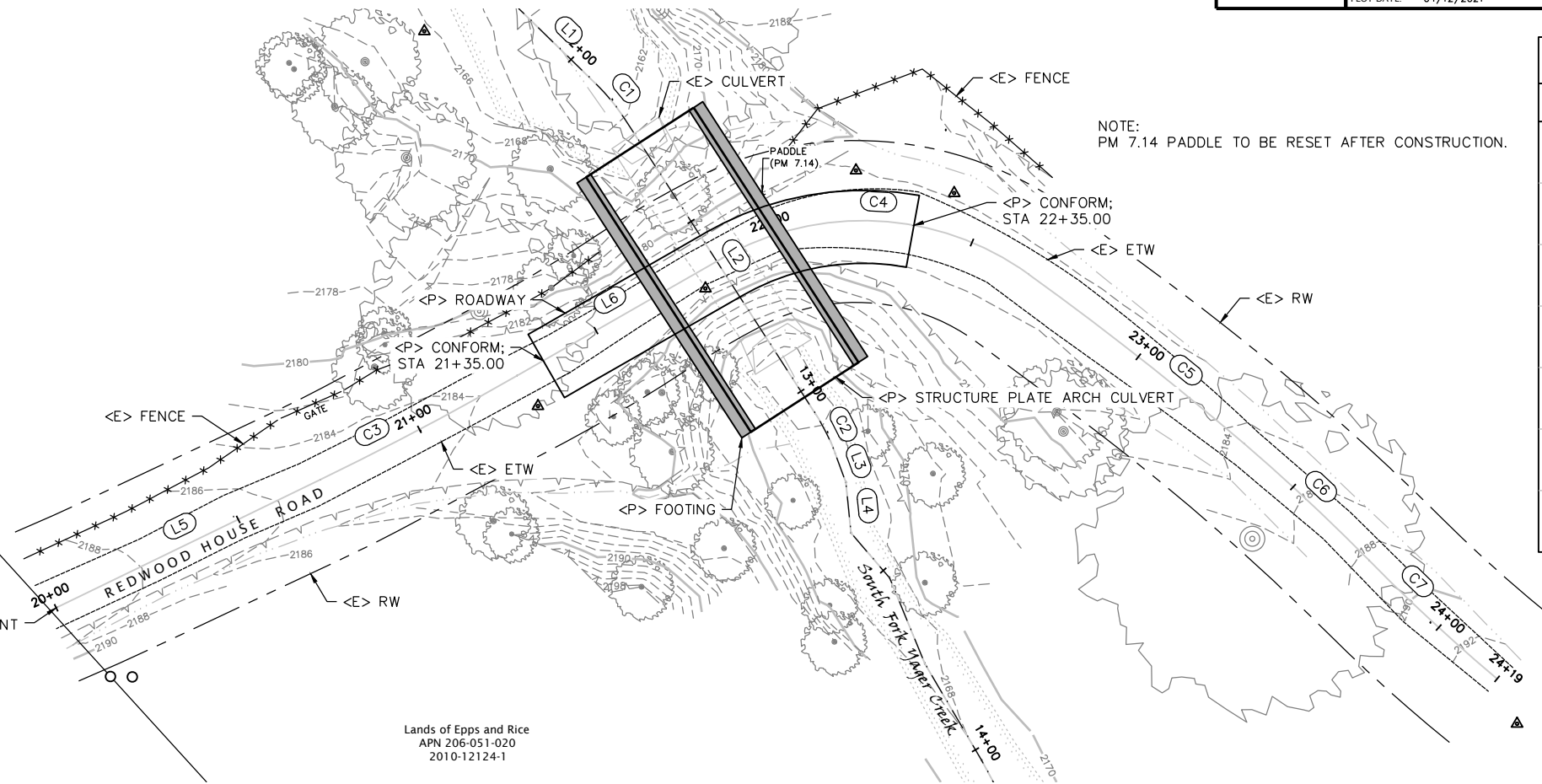
MILE POST: 7.14  
 DESIGNED BY: JAB  
 DRAWN BY: RMD  
 REVIEWED BY: JAB  
 APPROVED BY: TRS



Lands of Epps and Rice  
 APN 206-051-020  
 2010-12124-1

Property line - South line of the North 1/2 of the Northwest 1/4 of Section 23, T24N, R2E

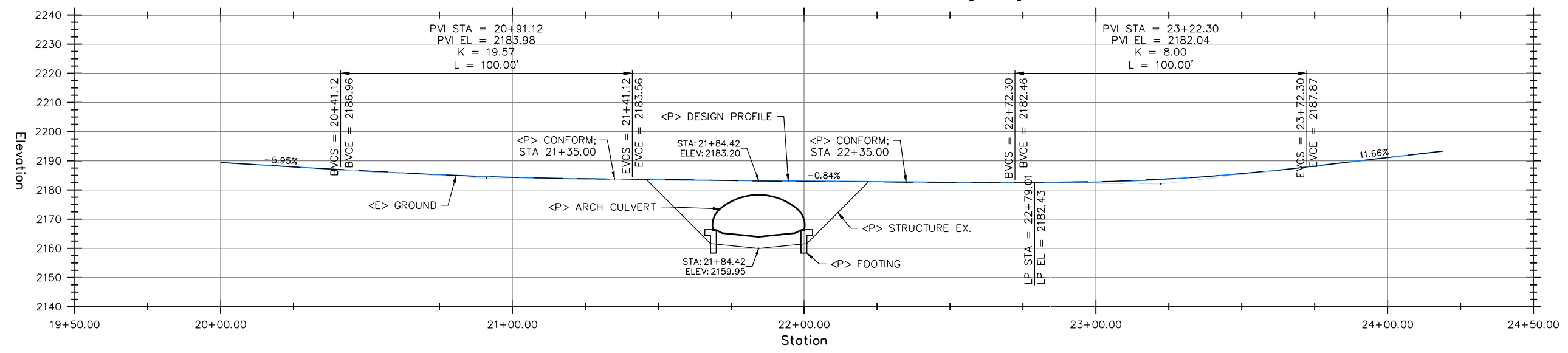
Lands of Humboldt Redwood Company  
 APN 206-051-016  
 2008-18466-122 (Unit 16  
 Page 64 of 122)



**PLAN VIEW**  
 SCALE: 1"=20'

"R-LINE" REDWOOD HOUSE ROAD DESIGN ALIGNMENT						
SEGMENT	LENGTH	BEARING/DELTA	RADIUS	TANGENT	START	END
L5	72.54'	N17°42'25"E			STA: 20+00.00 N: 2087102.30 E: 6029408.94	STA: 20+72.54 N: 2087171.40 E: 6029431.01
C3	55.03'	003°56'27"	800.00'	27.52'	STA: 20+72.54 N: 2087171.40 E: 6029431.01	STA: 21+27.56 N: 2087224.35 E: 6029445.93
L6	58.39'	N13°45'58"E			STA: 21+27.56 N: 2087224.35 E: 6029445.93	STA: 21+85.95 N: 2087281.06 E: 6029459.82
C4	80.10'	065°34'00"	70.00'	45.08'	STA: 21+85.95 N: 2087281.06 E: 6029459.82	STA: 22+66.05 N: 2087333.20 E: 6029514.85
C5	67.79'	004°51'18"	800.00'	33.91'	STA: 22+66.05 N: 2087333.20 E: 6029514.85	STA: 23+33.84 N: 2087342.91 E: 6029581.92
C6	42.30'	004°50'52"	500.00'	21.16'	STA: 23+33.84 N: 2087342.91 E: 6029581.92	STA: 23+76.14 N: 2087345.41 E: 6029624.14
C7	43.08'	005°20'33"	462.05'	21.56'	STA: 23+76.14 N: 2087345.41 E: 6029624.14	STA: 24+19.23 N: 2087348.14 E: 6029667.12

Profile View of "R-LINE" Redwood House Road Design Alignment

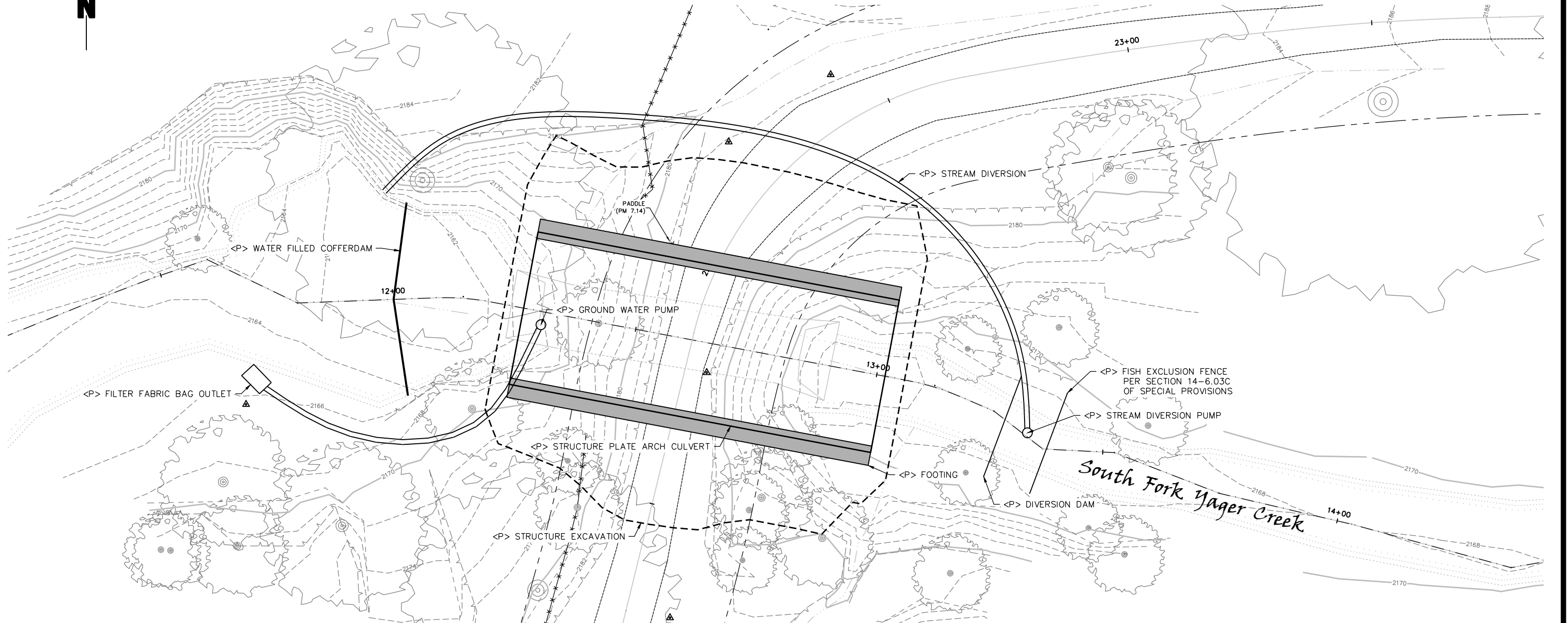


**PROFILE VIEW**  
 SCALE: 1"=20'

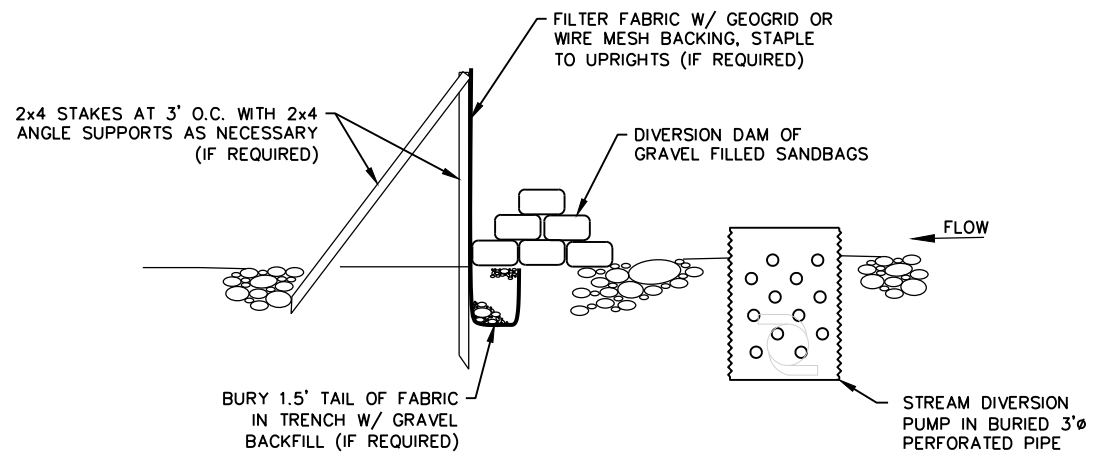




BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: REDWOOD HOUSE ROAD	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD</b> <b>YAGER CREEK TEMPORARY DIVERSION PLAN</b>	SHEET <b>8</b> OF <b>11</b>	
	ROAD NO.: 5F200	MILE POST: 7.14			DESIGNED BY: JAB
	PROJECT NO.: FEMA-4434-DR-CA PW-27				DRAWN BY: RMD
	CONTRACT NO.: 219303				REVIEWED BY: JAB
	DRAWING FILE NAME: 219303_CDSN004-010	APPROVED BY: TRS			
	PLOT DATE: 04/12/2021	REVISION DATE:			



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



**CREEK DIVERSION DETAIL A**  
NOT TO SCALE

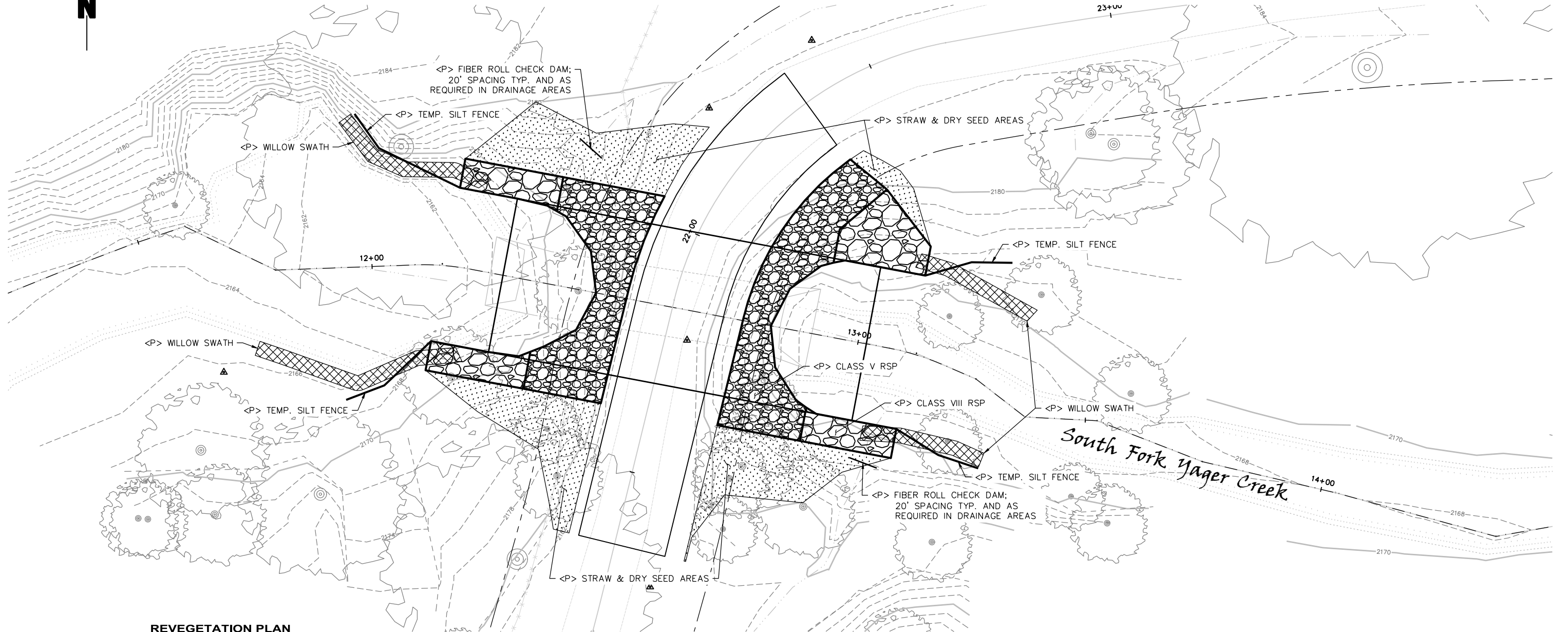
**NOTES**

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 DIVERSION 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/FILTER SYSTEM THAT MINIMIZES EROSION OR SCOUR.
5. THE WORK SITE GROUNDWATER PUMP MUST DISCHARGE ACCUMULATED GROUNDWATER AND WATERS THAT ARE TURBID DUE TO CONSTRUCTION ACTIVITIES IN AN AREA THAT IS HEAVILY VEGETATED EMBANKMENT, OR IN THE ROADSIDE DITCH THAT DRAINS BACK INTO CREEK, OR IN A FILTER FABRIC BAG.
6. ADEQUATE FILTRATION AT THE SYSTEM OUTLETS MUST BE PROVIDED FOR TURBID WATER DUE TO CONSTRUCTION ACTIVITIES.
7. ALTERNATE STREAM DIVERSION SYSTEMS, INCLUDING GRAVITY WILL BE CONSIDERED, BUT MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
8. CONTRACTOR RESPONSIBLE FOR PIPE SIZING THAT IS ADEQUATE FOR STREAM FLOWS DURING CONSTRUCTION.





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	ROAD NO.: 5F200	MILE POST: 7.14			DESIGNED BY: JAB
	PROJECT NO.: FEMA-4434-DR-CA PW-27				DRAWN BY: RMD
	CONTRACT NO.: 219303				REVIEWED BY: JAB
	DRAWING FILE NAME: 219303 CDSN004-010	APPROVED BY: TRS			
	PLOT DATE: 04/12/2021	REVISION DATE:			



**REVEGETATION PLAN**

PLANT	QTY	LOCATION	NOTES
WILLOW	40	ALONG CREEK BANKS	12"-18" MIN HT, 3'-6' SWATH, 4'-6' SPACING
ALDER	10	TBD	4'-6" MIN HT. SPACED 6' APART MIN

**PLAN VIEW**

SCALE: 1"=10'

**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. (IF NEEDED, AS REQUIRED)

**BMP NOTES**

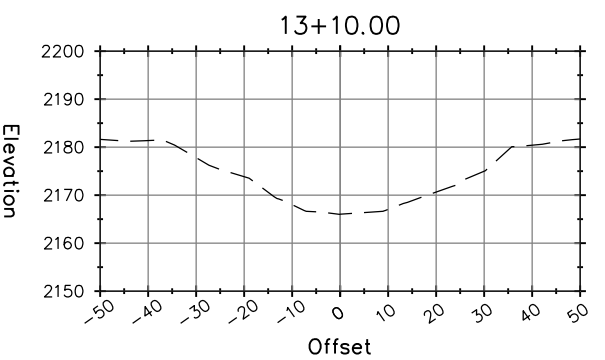
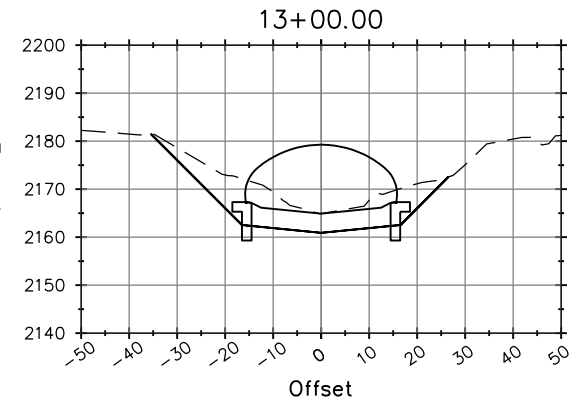
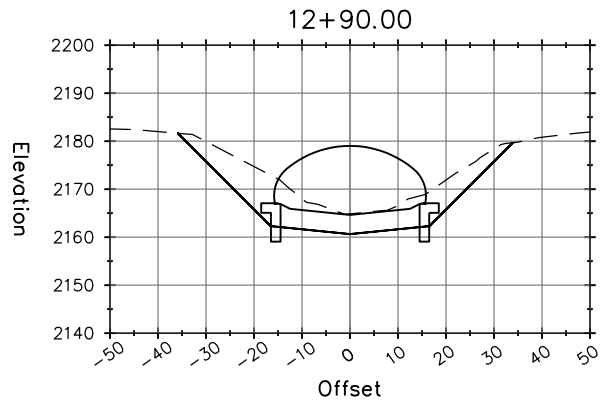
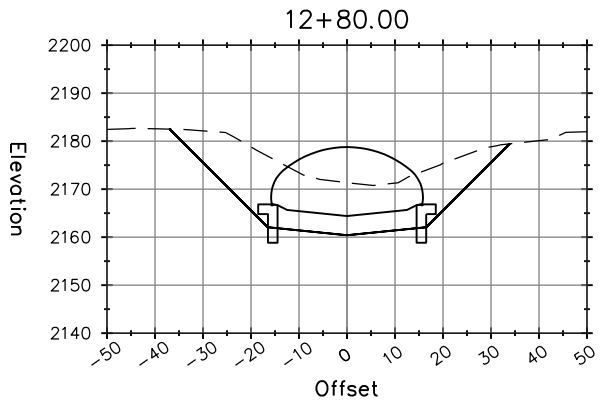
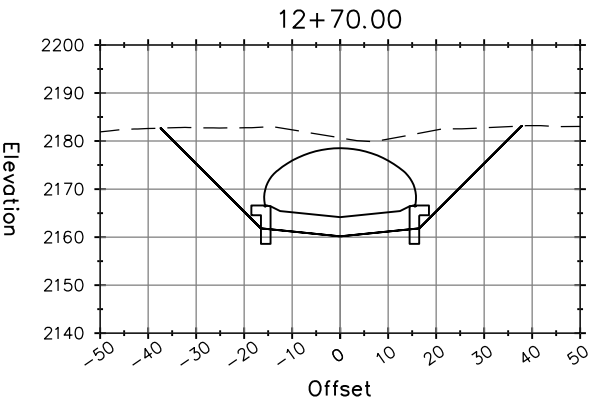
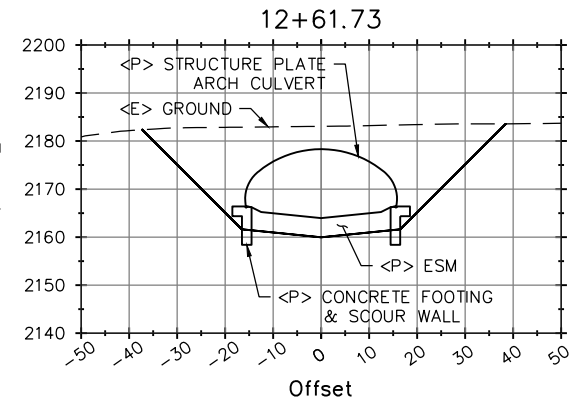
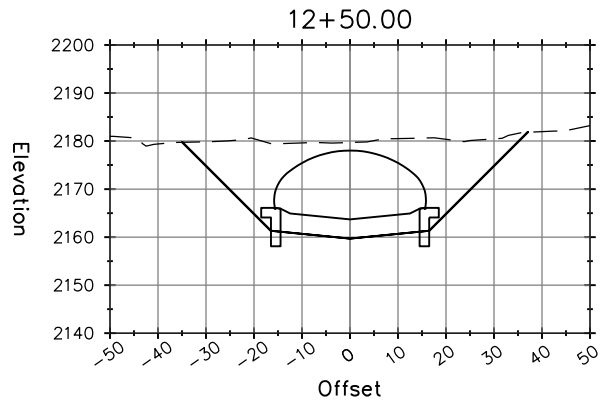
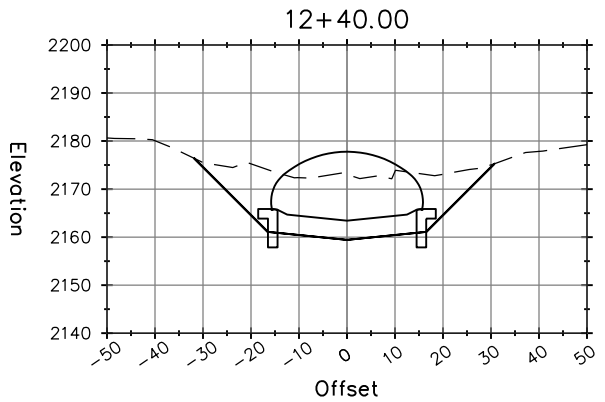
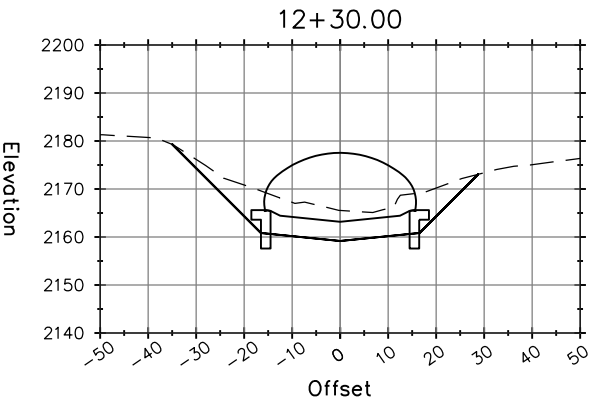
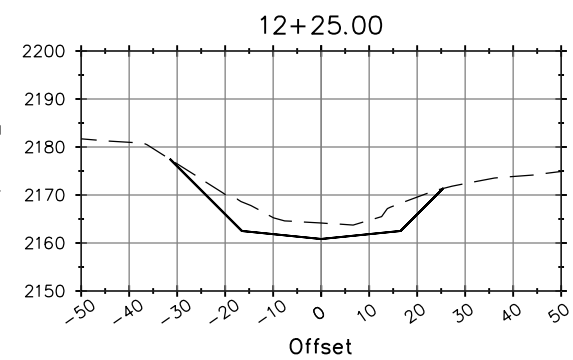
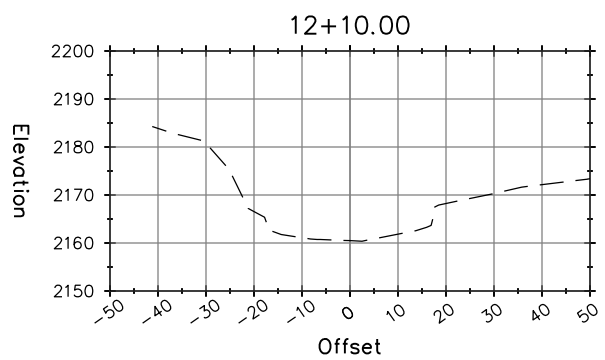
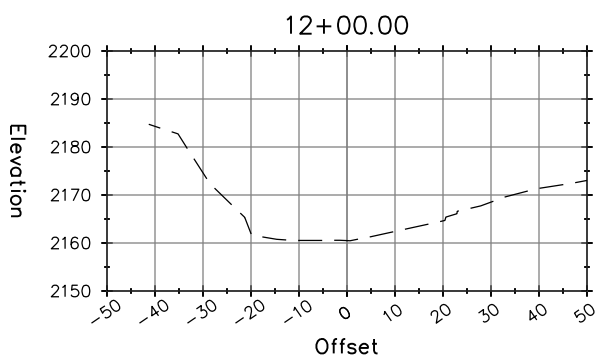
- SILT FENCE TO BE INSTALLED PRIOR TO EXCAVATION FOR ARCH CULVERT.
- SILT FENCE TO BE REMOVED AFTER RSP IS INSTALLED.
- CHECK DAMS TO BE INSTALLED AFTER ANY STOCKPILES ARE REMOVED AND PRIOR TO PLACING SEED AND STRAW



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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR TO REDWOOD HOUSE ROAD
YAGER CREEK SECTION VIEWS

SHEET  
**10**  
OF  
**11**



**SECTION VIEWS**  
SCALE: 1"=20'

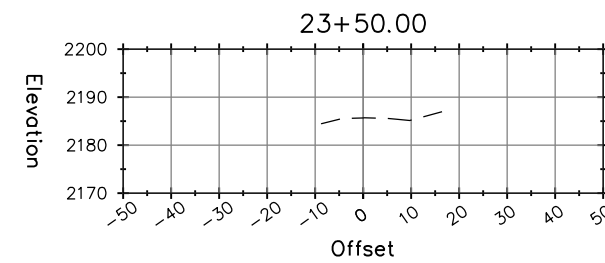
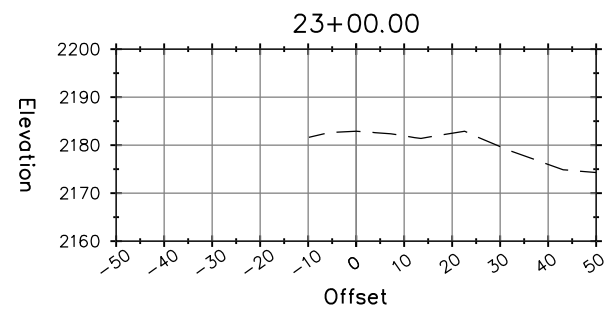
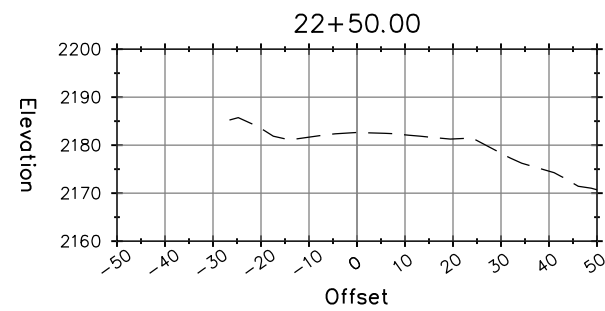
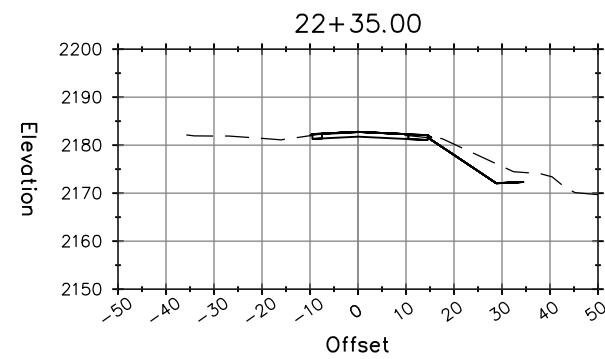
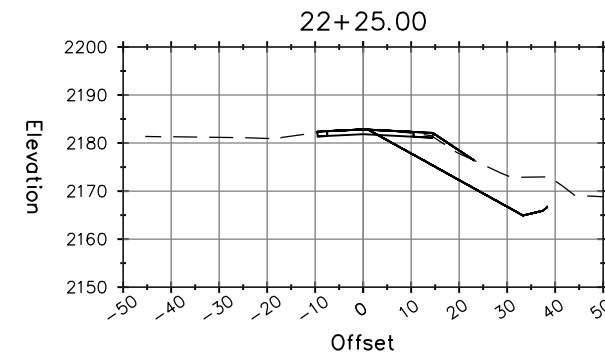
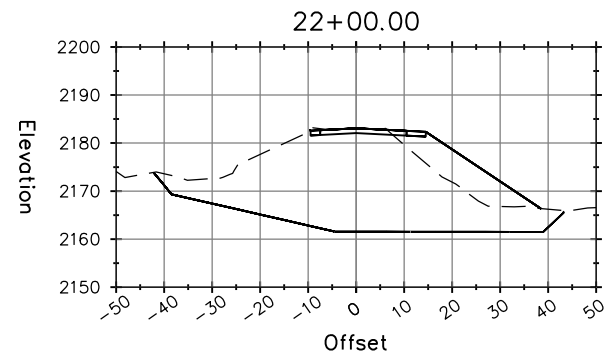
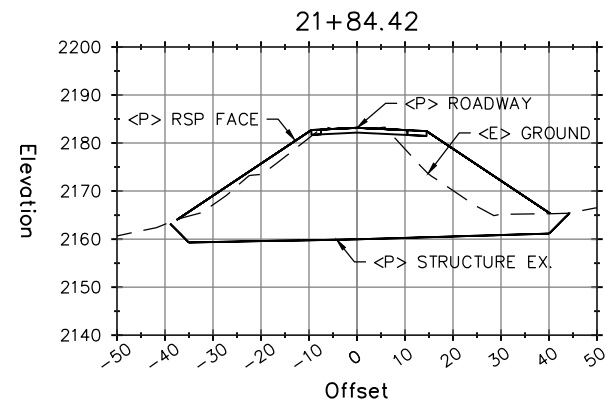
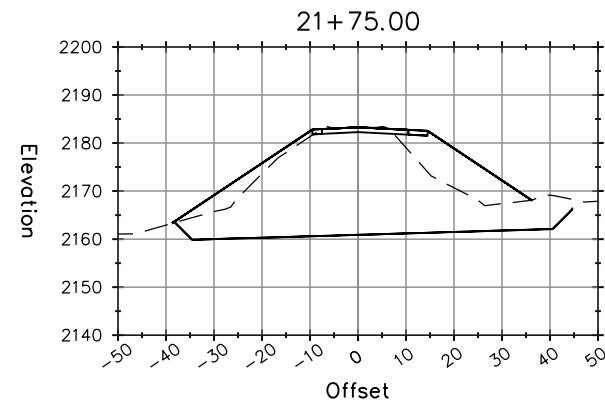
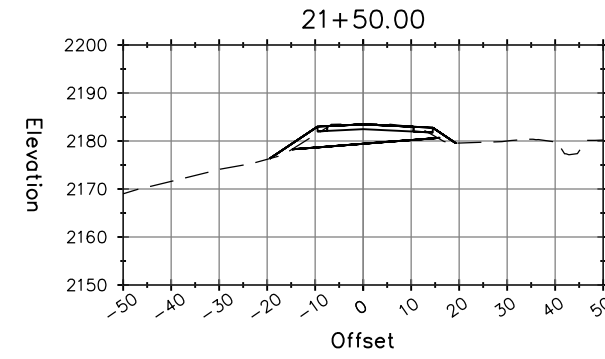
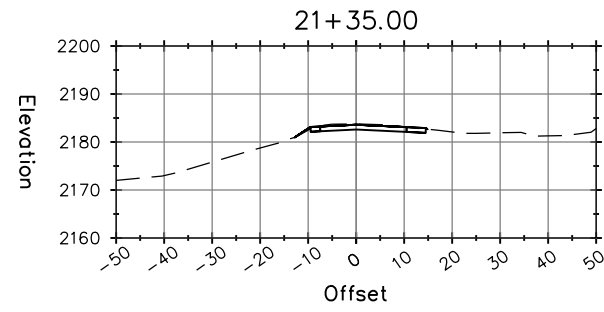
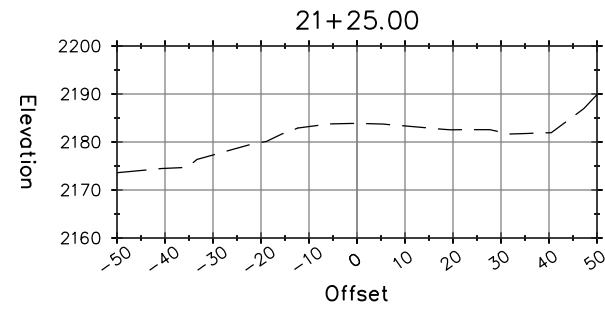
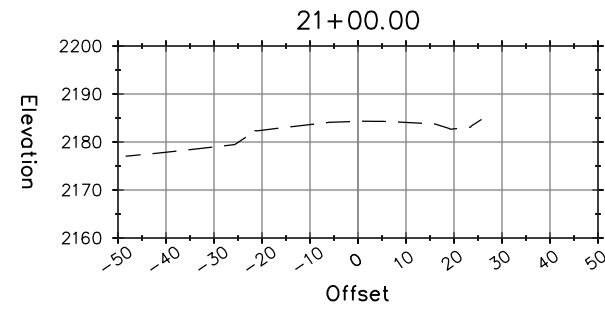


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REDWOOD HOUSE ROAD SECTION VIEWS

SHEET  
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**SECTION VIEWS**

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