



FEMA



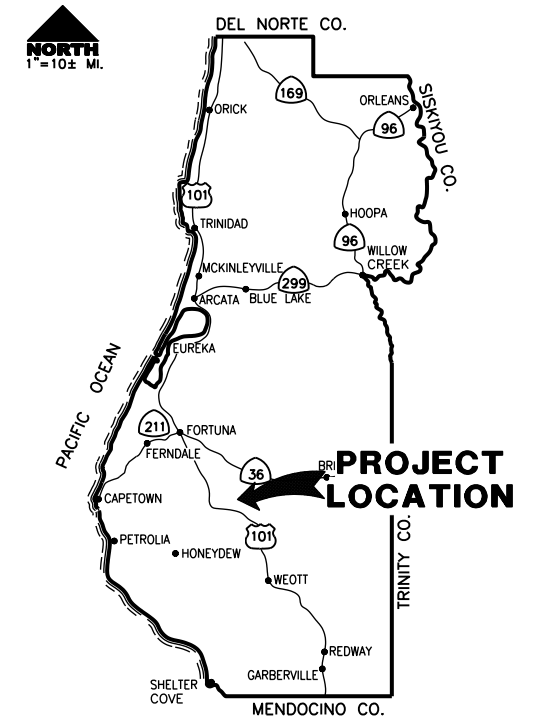
Cal OES  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

SITE	FEMA PROJECT WORKSHEET
PM 0.52	FEMA-4308-DR-CA PW#789

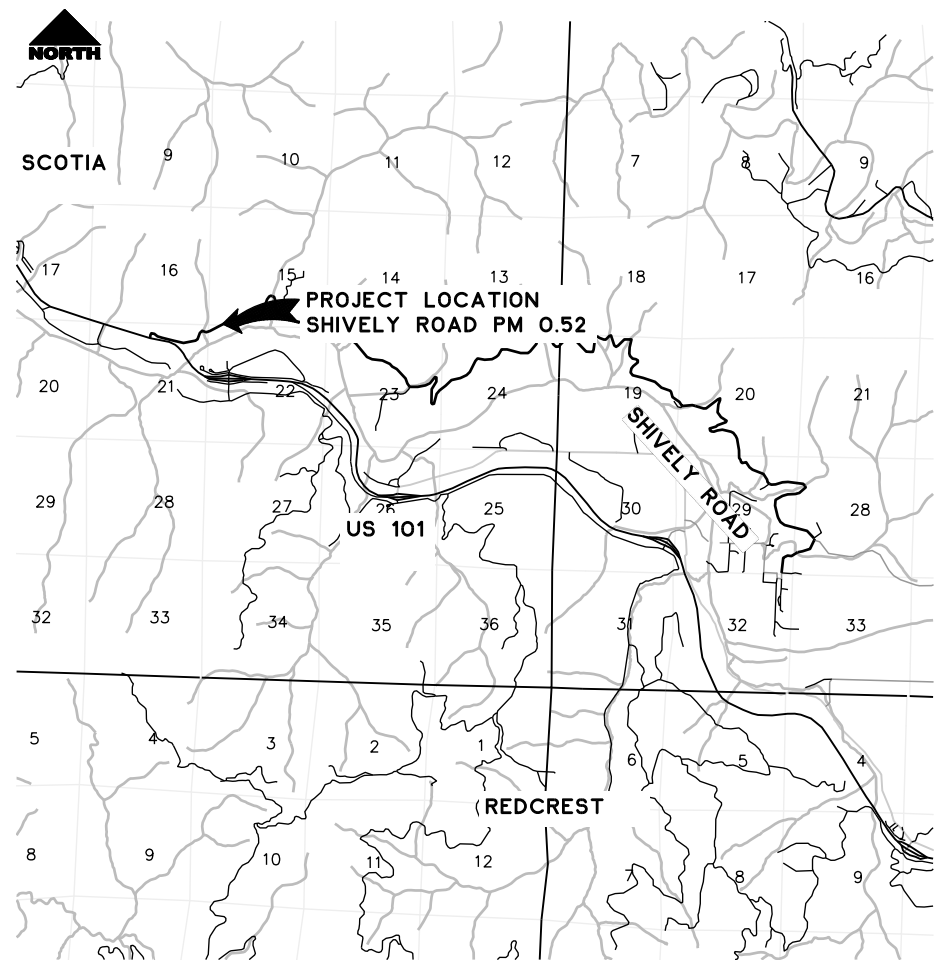
# COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

## PROJECT PLANS FOR CONSTRUCTION OF STORM DAMAGE REPAIR TO SHIVELY ROAD (C4F012) AT P.M. 0.52 FEMA-4308-DR-CA PW# 789 CONTRACT NO. 217535

BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: SHIVELY ROAD	DESIGN SECTION: ENGINEERING	<b>COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS</b>  <b>STORM DAMAGE REPAIR TO SHIVELY ROAD PM 0.52</b>  <b>COVER SHEET, SHEET INDEX AND MAPS</b>	SHEET <b>1</b> OF <b>6</b>
	ROAD NO: C4F012	MILE POST: 0.52		
	PROJECT NO: FEMA-4308-DR-CA PW# 789	DESIGNED BY: MMS		
	CONTRACT NO: 217535	DRAWN BY: MMS		
	DRAWING FILE NAME: L:\2017 Storm Damage\217XXX_Shively Road Sites	REVIEWED BY: JAB		
	PLOT DATE: 4/3/2023	APPROVED BY: TRS		



LOCATION MAP  
SCALE: 1"=10± MILE



VICINITY MAP  
NTS



### INDEX OF SHEETS

- 1 COVER SHEET, SHEET INDEX, AND MAPS
- 2 CONSTRUCTION AREA SIGNS, QUANTITIES, AND DETAILS
- 3 TYPICAL SECTIONS
- 4 PLAN AND PROFILE
- 5 EROSION CONTROL
- 6 TYPICAL SECTIONS

### NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.  
 REFERENCE TO CALTRANS STANDARD PLANS DATED 2022  
 (SEE APPLICABLE STAN PLAN LIST IN SPECIAL PROVISIONS)

### DESIGN DESIGNATION

ADT = 129  
 V = 25MPH

### RECOMMENDED

*Jeffrey A. Ball* 4/5/2023  
 JEFFREY A. BALL DATE  
 RCE 70631, EXP 6/30/2023



### APPROVED

*Tony R. Seghetti* 4-6-2023  
 TONY R. SEGHETTI DATE  
 RCE 63714, EXP 9/30/2024



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

**NOTES**

- 1) FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
- 2) ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
- 3) IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
- 4) DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE OF EACH OTHER.
- 5) 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.

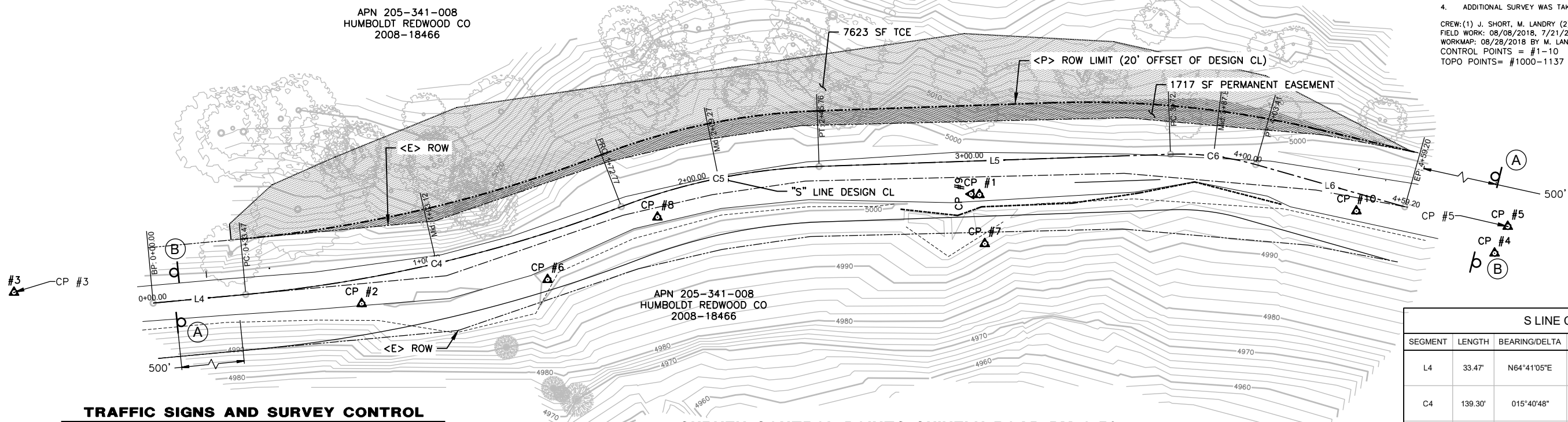


ROAD NAME: SHIVELY ROAD	DESIGN SECTION: ENGINEERING
ROAD NO.: C4F012	MILE POST: 0.52
FEMA PROJECT NO.: FEMA-4308-DR-CA PW#789	DESIGNED BY: MMS
CONTRACT NO.: 217535	DRAWN BY: MMS
DRAWING FILE NAME: L:\2017 Storm Damage\2177XXX_Shively Road Sites	REVIEWED BY: JAB
PLOT DATE: 4/3/2023	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>SHIVELY ROAD PM 0.52 STORM DAMAGE REPAIR</b>	SHEET <b>2</b> OF <b>6</b>
<b>SIGNS AND QUANTITIES</b>	

**SURVEY NOTES**

1. UNABLE TO LOCATE THE 18" CMP FLOW LINE OUT.
  2. THE RIGHT OF WAY IN THIS AREA IS 40' WIDE. 20' ON EACH SIDE OF EXISTING CENTERLINE. PER BOOK 102 OF DEEDS PAGE 40 O.R. HUMBOLDT COUNTY.
  3. BEARINGS SHOWN HEREON ARE BASED ON HOLDING A COMPASS BEARING OF S60°W BETWEEN CONTROL POINTS #1 & #2
  4. ELEVATIONS SHOWN HEREON ARE BASED ON AN ASSUMED ELEVATION OF 5000.00' AT CP1.
  4. ADDITIONAL SURVEY WAS TAKEN ON 7/21/2020 AND 6/3/2021
- CREW: (1) J. SHORT, M. LANDRY (2) E. WARD, R. MASSA (3) E. WARD, B. MULDOON  
 FIELD WORK: 08/08/2018, 7/21/2020, & 6/3/2021  
 WORKMAP: 08/28/2018 BY M. LANDRY  
 CONTROL POINTS = #1-10  
 TOPO POINTS = #1000-1137



SEGMENT	LENGTH	BEARING/DELTA	RADIUS	TANGENT	START	END
L4	33.47'	N64°41'05"E			STA: 0+00.00 N: 4857.22 E: 4721.65	STA: 0+33.47 N: 4871.53 E: 4751.91
C4	139.30'	015°40'48"	509.00'	70.09'	STA: 0+33.47 N: 4871.53 E: 4751.91	STA: 1+72.77 N: 4947.48 E: 4868.16
C5	72.99'	019°00'36"	220.00'	36.83'	STA: 1+72.77 N: 4947.48 E: 4868.16	STA: 2+45.76 N: 4985.43 E: 4930.12
L5	126.59'	N68°00'53"E			STA: 2+45.76 N: 4985.43 E: 4930.12	STA: 3+72.35 N: 5032.82 E: 5047.50
C6	31.05'	017°47'32"	100.00'	15.65'	STA: 3+72.35 N: 5032.82 E: 5047.50	STA: 4+03.41 N: 5039.83 E: 5077.63
L6	55.79'	N85°48'25"E			STA: 4+03.41 N: 5039.83 E: 5077.63	STA: 4+59.20 N: 5043.91 E: 5133.27

**TRAFFIC SIGNS AND SURVEY CONTROL**

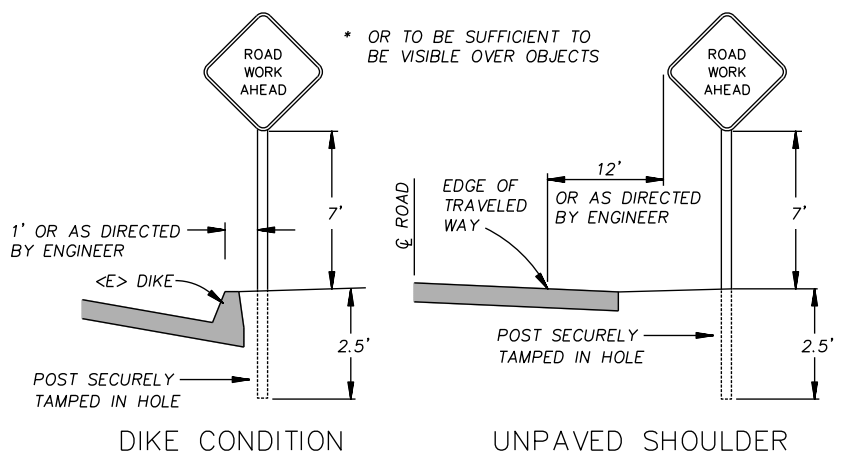
SCALE: 1"=20'

**SURVEY CONTROL POINTS SHIVELY ROAD PM 0.52**

Point Number	Easting	Northing	Point Elevation	Full Description
1	5000.0000'	5000.0000'	5000.00'	setmagnail&humco.surveytag
2	4804.4086'	4887.0752'	5000.06'	setgin.spike&humco.controltag
3	4613.5336'	4794.1471'	4995.57'	setgin.spike&humco.controltag
4	5181.5172'	5043.6752'	5000.10'	setgin.spike&humco.controltag
5	5375.9526'	5094.3843'	5003.69'	setgin.spike&humco.controltag
6	4852.2150'	4913.7130'	5000.19'	CP/SET80D&TAG-HUMCO SURVEY
7	4995.7060'	4979.6890'	4994.74'	CP/SET60D&NC
8	4881.7020'	4948.3450'	4999.764'	CP/MAG&TAGHUMCOSURVEY
9	4984.9470'	4994.8430'	4999.977'	CP/MAG&TAGHUMCOSURVEY
10	5117.4450'	5036.5110'	4999.526'	CP/MAG&TAGHUMCOSURVEY

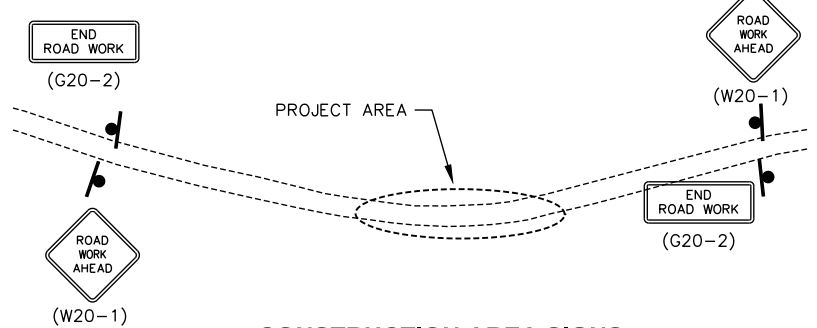
**COST ESTIMATE**

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	Total
1	120090	Construction Area Signs	EA	4
2	120100	Traffic Control System	LS	1
3	130100	Job Site Management	LS	1
4	130200	Prepare Water Pollution Contol Program	LS	1
5	170103	Clearing and Grubbing (LS)	LS	1
6	190101	F Roadway Excavation	CY	1,250
7	210212	Dry Seed (SQFT)	SQFT	10,260
8	210280	Rolled Erosion Control Product (Blanket)	SQFT	6,620
9	210350	Fiber Rolls	LF	850
10	210420	Straw	SQFT	3,640
11	260203	F Class 2 Aggregate Base (CY)	CY	232
12	390132	Hot Mix Asphalt (Type A)	TON	157
13	665016	18" Corrugated Steel Pile (.064" Thick)	LF	22
14	723080	Rock Slope Protection (60 lb, Class II, Method B)	CY	3
15	999990	Mobilization	LS	1



**RURAL CONSTRUCTION AREA SIGN**

- NOT TO SCALE -



**CONSTRUCTION AREA SIGNS**

SCALE: 1"=200'±

**CONSTRUCTION AREA SIGN SUMMARY**

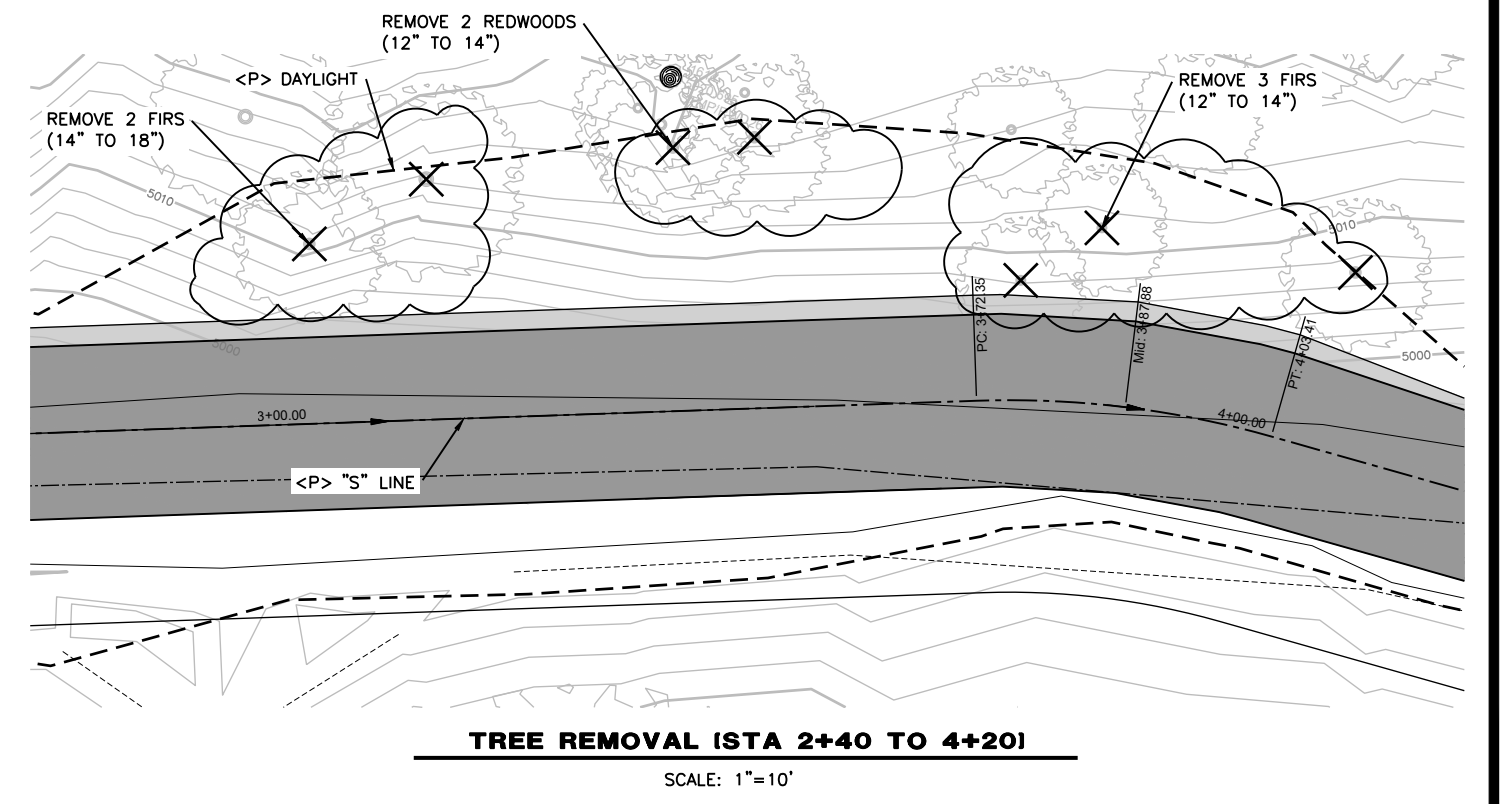
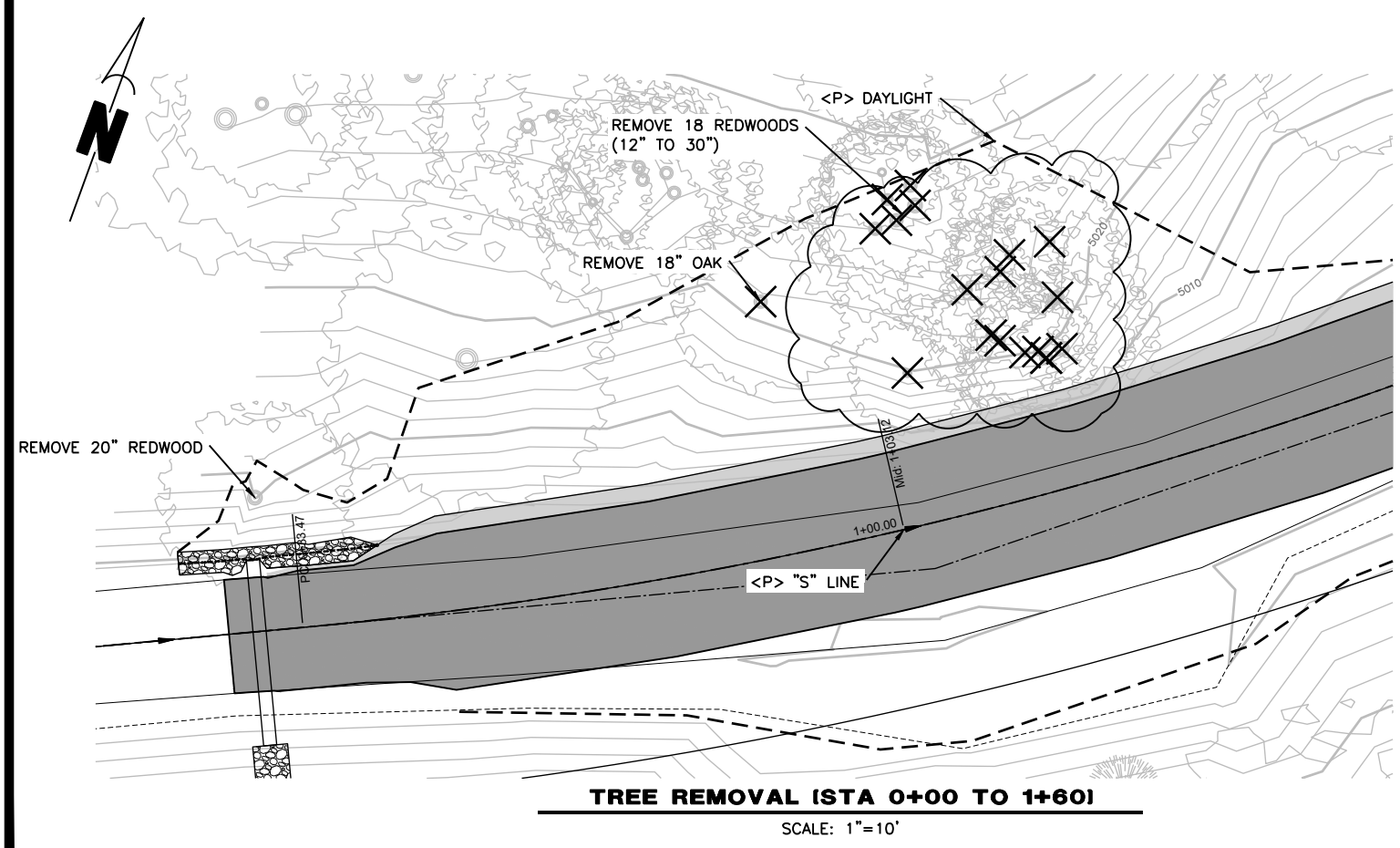
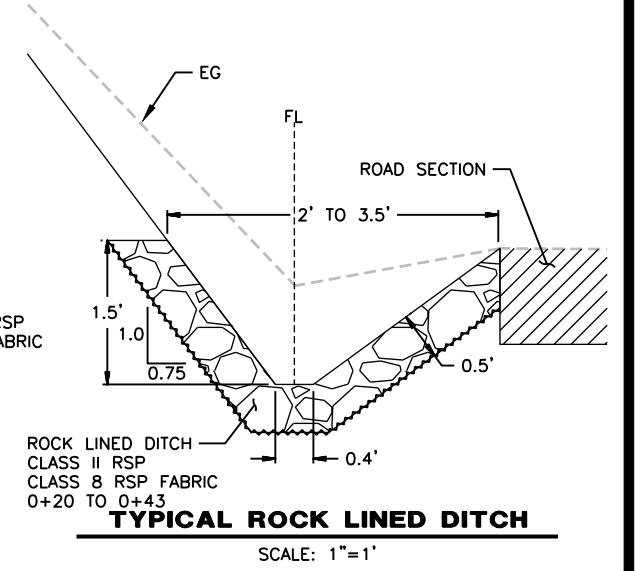
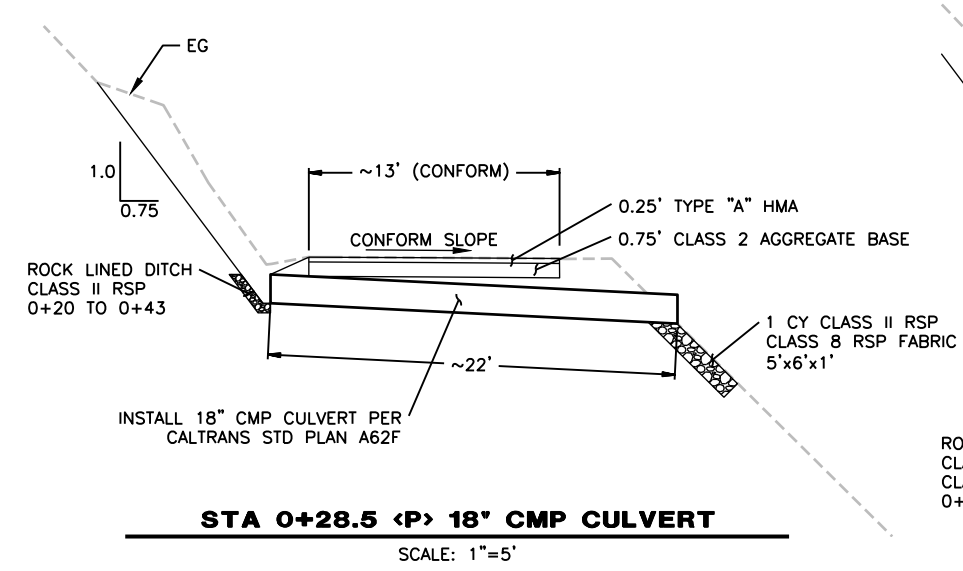
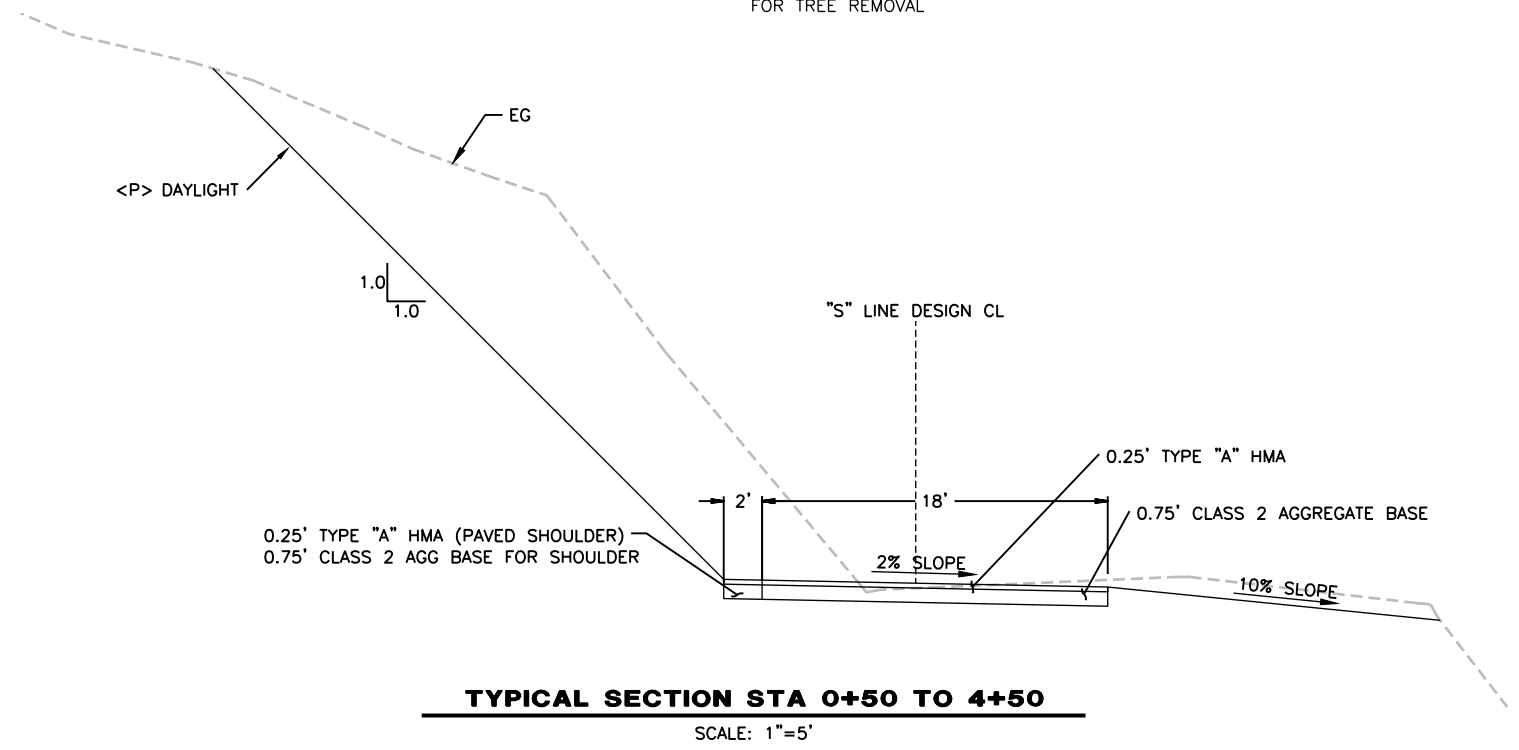
REF	SIGN TYPE	QTY	DESCRIPTION	SIZE	REMARKS	POST SIZE	NUMBER
(A)	W20-1	2	ROAD WORK AHEAD	30" x 30"	VISIBLE AT ALL TIMES	4" x 4"	1
(B)	G20-2	2	END ROAD WORK	36" x 18"	VISIBLE AT ALL TIMES	4 x 4	1



BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: SHIVELY ROAD	DESIGN SECTION
	ROAD NO.: C4F012	ENGINEERING
	MILE POST: 0.52	DESIGNED BY: MMS
	FEMA PROJECT NO.: FEMA-4308-DR-CA PW#789	DRAWN BY: MMS
	CONTRACT NO.: 217535	REVIEWED BY: JAB
	DRAWING FILE NAME: L:\2017 Storm Damage\2177XXX_Shively Road Sites	APPROVED BY: TRS
	PLOT DATE: 4/3/2023	

<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>SHIVELY ROAD PM 0.52 STORM DAMAGE REPAIR</b> <b>TYPICAL SECTION</b>	SHEET
	3
	OF
	6

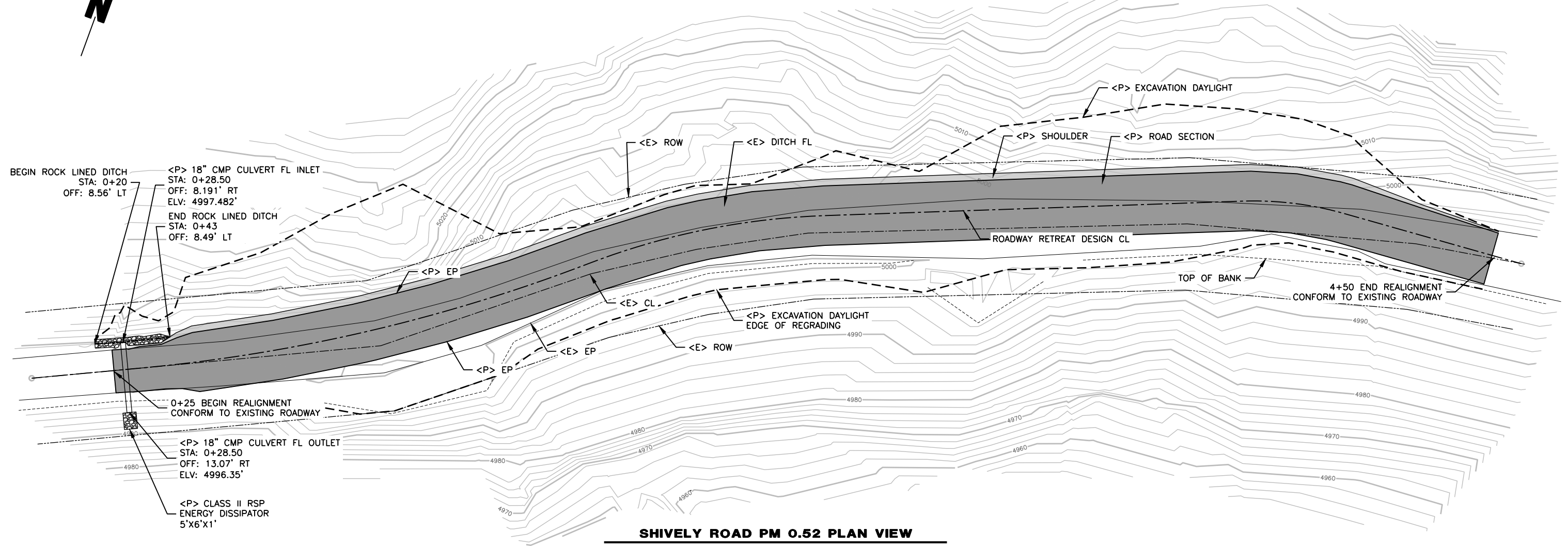
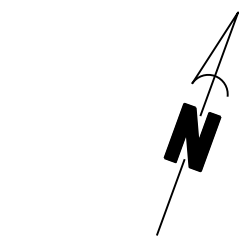
- NOTES**
- RSP FABRIC WILL BE PAID UNDER CLASS II RSP BID ITEM NO. 14
  - TREE REMOVAL WILL BE PAID UNDER CLEARING AND GRUBBING BID ITEM NO. 5
  - COORDINATE WITH HUMBOLDT REDWOODS COMPANY FOR TREE REMOVAL





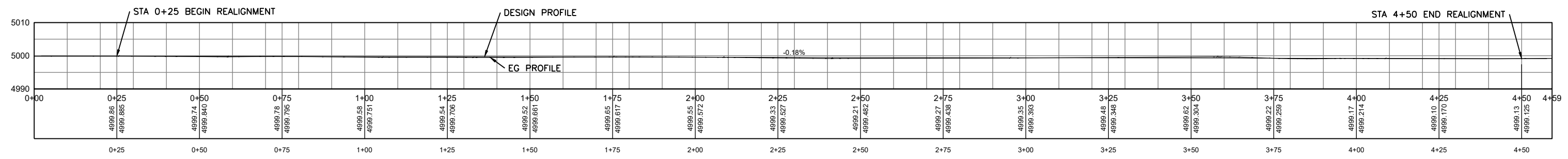
BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: SHIVELY ROAD	DESIGN SECTION
	ROAD NO.: C4F012	ENGINEERING
	FEMA PROJECT NO.: FEMA-4308-DR-CA PW#789	DESIGNED BY: MMS
	CONTRACT NO.: 217535	DRAWN BY: MMS
	DRAWING FILE NAME: L:\2017 Storm Damage\2177XXX_Shively Road Sites	REVIEWED BY: JAB
	MILE POST: 0.52	APPROVED BY: TRS
	PLOT DATE: 4/3/2023	

<b>COUNTY OF HUMBOLDT</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>SHIVELY ROAD PM 0.52 STORM DAMAGE REPAIR</b> <b>PLAN AND PROFILE</b>	SHEET
	4
	OF
	6



**SHIVELY ROAD PM 0.52 PLAN VIEW**

SCALE: 1"=15'



**SHIVELY ROAD PM 0.52 PROFILE VIEW**

SCALE: 1"=15'



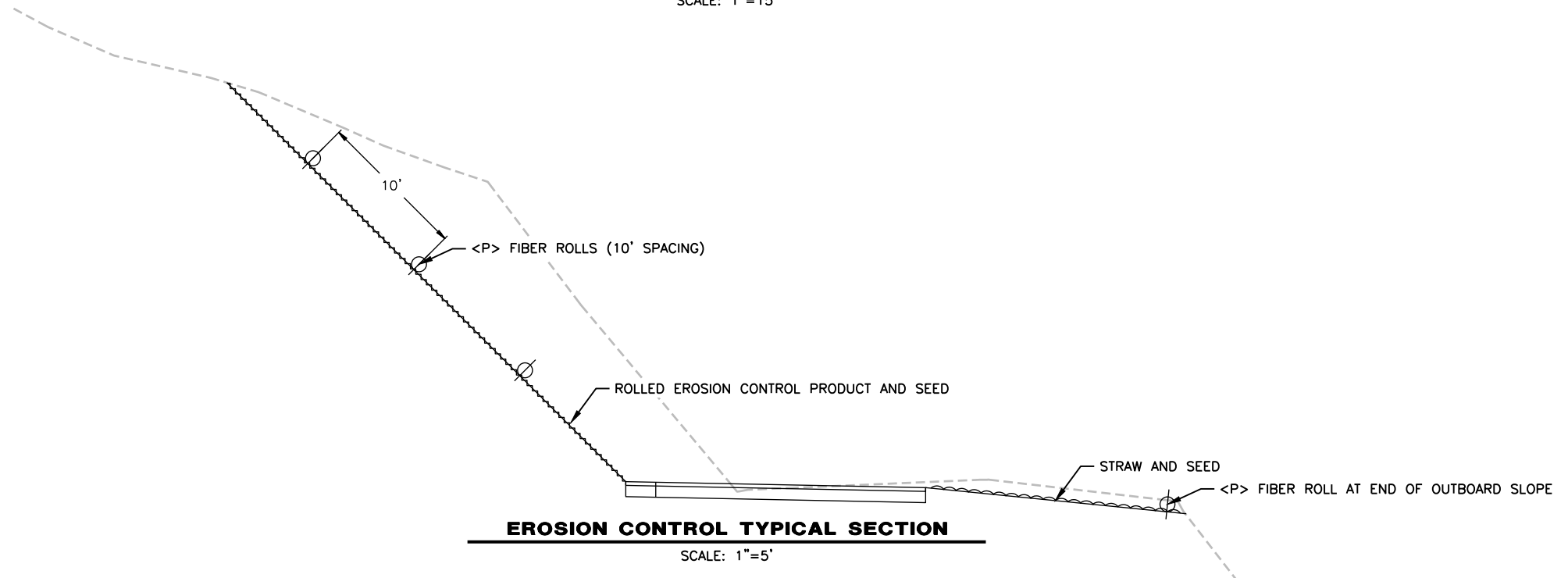
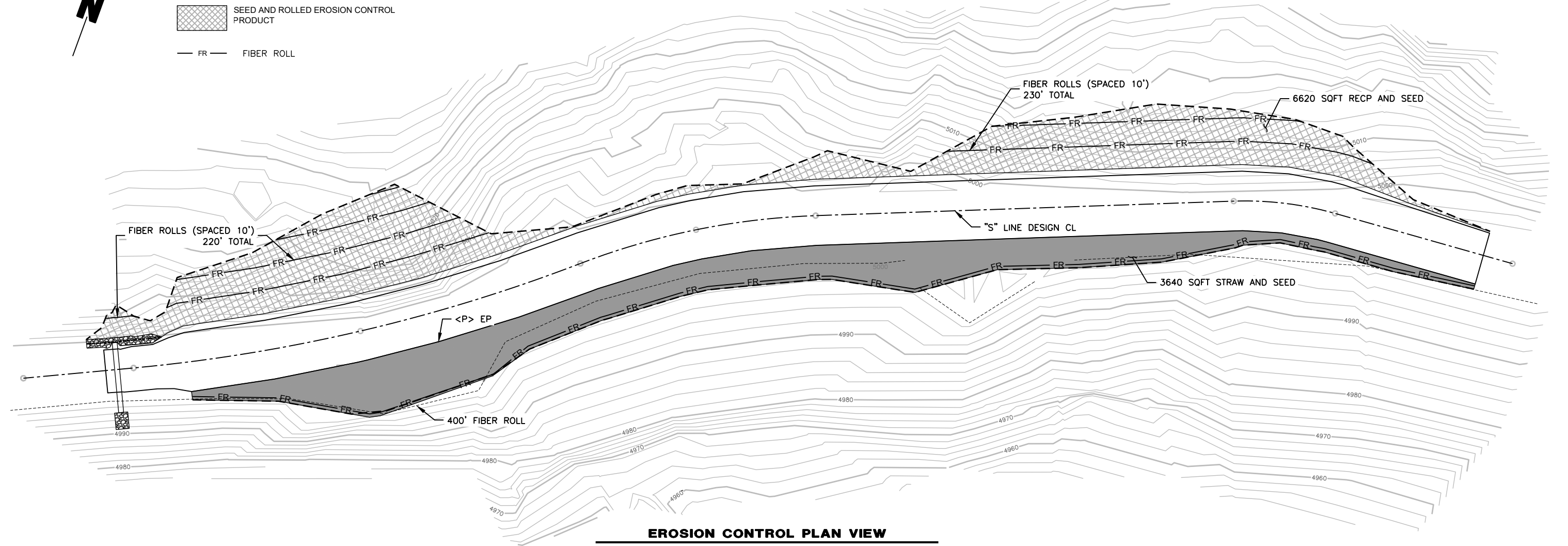
BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: SHIVELY ROAD	DESIGN SECTION
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO.: C4F012	ENGINEERING
	MILE POST: 0.52	DESIGNED BY: MMS
	FEMA PROJECT NO.: FEMA-4308-DR-CA PW#789	DRAWN BY: MMS
	CONTRACT NO.: 217535	REVIEWED BY: JAB
	DRAWING FILE NAME: L:\2017 Storm Damage\2177XXX_Shively Road Sites	APPROVED BY: TRS
	PLOT DATE: 4/3/2023	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET
	5
SHIVELY ROAD PM 0.52 STORM DAMAGE REPAIR	OF
EROSION CONTROL	6



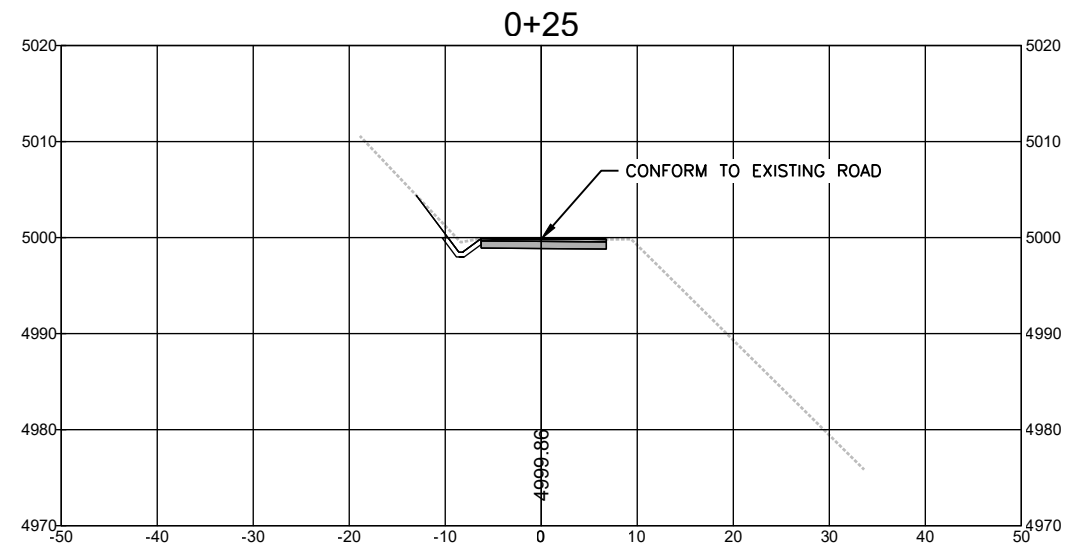
**LEGEND**

	SEED AND STRAW
	SEED AND ROLLED EROSION CONTROL PRODUCT
	FIBER ROLL





BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: SHIVELY ROAD	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS <b>SHIVELY ROAD PM 0.52 STORM DAMAGE REPAIR</b>  SECTION VIEWS	SHEET <b>6</b> OF <b>6</b>	
	ROAD NO.: C4F012	MILE POST: 0.52			ENGINEERING
	FEMA PROJECT NO.: FEMA-4308-DR-CA PW#789	DESIGNED BY: MMS			
	CONTRACT NO.: 217535	DRAWN BY: MMS			
	DRAWING FILE NAME: L:\2017 Storm Damage\2177XXX_Shively Road Sites	REVIEWED BY: JAB			
	PLOT DATE: 4/3/2023	APPROVED BY: TRS			



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

