FUNDING SOURCE

THIS PROJECT IS FUNDED BY THE US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION EMERGENCY RELIEF PROGRAM



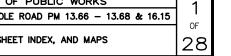
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	PROJECT NO
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SCALES ACCORDINGLY	PLOT DATE:

ING	ROAD NAME: MATTOLE ROAD	I DESIGN SECTIO
	ROAD NO: F3D010	ENGINEERING
	MILE POST: 13.66 - 13.68, 16.15	DESIGNED BY: C.PENT
	PROJECT NO.: ER-32L0(252), ER-32L0(253)	DRAWN BY: C.PENI
1031	CONTRACT NO.: 217204, 217424	REVIEWED BY: J.SVEH
NGLY	PLOT DATE: 03/14/2024	APPROVED BY: J.SVEH

	DEPARTMENT OF PUBLIC WORKS
Υ	STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 1
Υ	

COVER SHEET, SHEET INDEX, AND MAPS

COUNTY OF HUMBOLDT



U.S.Department of Transportation Federal Highway Administration

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 REPORT: CRAWFORD AND ASSOCIATES, 2020.

ABBREVIATIONS (TO SUPPLEMENT CALTRANS STANDARD PLANS A3A, A3B & A3C)

APN ASSESSORS PARCEL NUMBER

- CALTRANS
- EXISTING
- ELEVATION
- LEFT RIGHT
- SLOPE
- CENTER LINE

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF

STORM DAMAGE REPAIRS

MATTOLE ROAD (BULL CREEK) (F3D010) AT P.M. 13.66 - 13.68 & 16.15

PROJECT NO. ER-32L0(252), ER-32L0(253)

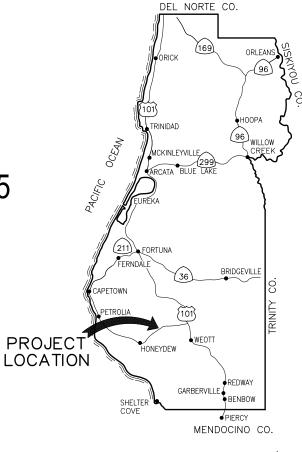
CONTRACT NO. 217204, 217424

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION 2023 STANDARD PLANS, 2023 STANDARD SPECIFICATIONS. AND LATEST REVISED STANDARD PLANS AND SPECIFICATIONS.



SHEET LIST TABLE

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4	PM 13.66-13.68 SURVEY CONTROL PLAN
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7	PM 13.66-13.68 ROADWAY PLAN AND PROFILE
8	PM 13.66-13.68 CULVERT DRAINAGE PLAN AND PROFILE
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18	PM 16.15 STAGING & STOCKPILE LOCATION AND RIGHT OF WAY (TCE) DETAIL
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22	PM 16.15 STREAM CHANNEL PLAN AND PROFILE
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24	PM 16.15 EROSION CONTROL AND REVEGETATION PLAN
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26	PM 16.15 BOX CULVERT DETAILS
27	PM 16.15 MATTOLE ROAD SECTIONS
28	PM 16.15 STREAM CHANNEL SECTIONS



LOCATION MAP



RECOMMENDED

3/11/2024 JEREMY/SVEHLA CIVIL ENGINEER

3/19/2024 JEFFREY A/BALL/ RCE 70631, EXP. 6/30/2025 ASSOCIATE CNIL ENGINEER

APPROVED

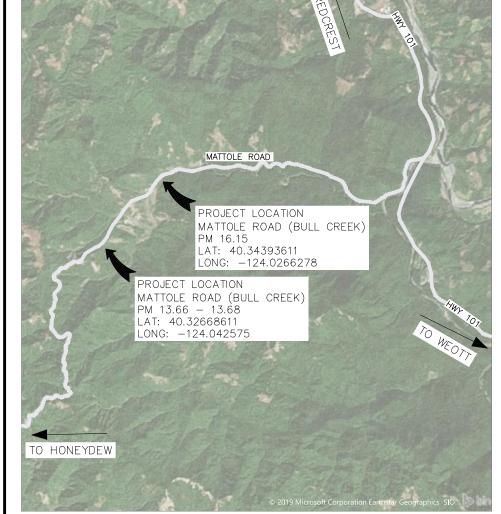
COUNTY OF HUMBOLDT

COUNTY OF HUMBOLDT

TONY R. SEGHETTI RCE 63714, EXP. 9/30/202 DEPUTY DIRECTOR OF ENGINEERING

3/19/2024







OVER SHEET-11191926 dwg



	ROAD NAME: MATTOLE ROAD	DESIGN SECTION	
NE INCH ON L DRAWING	ROAD NO: F3D010	ENGINEERING	
L DRAWING	MILE POST: 13.66 - 13.68, 16.15	DESIGNED BY: C.PENNY	Г
	PROJECT NO.: ER-32L0(252), ER-32L0(253)	DRAWN BY: C.PENNY	H
LI, ADOUGI	CONTRACT NO.: 217204, 217424	REVIEWED BY: J.SVEHLA	l
CCORDINGLY	PLOT DATE: 03/19/2024	APPROVED BY: J.SVEHLA	

NC	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET
NY	STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15	_
NY		OF
ILA	PROJECT QUANTITIES	20
ILA	·	20

QUANTITIES

ITEM NO.	ITEM CO	ITEM CODE ITEM DESCRIPTION UNIT		UNIT	PM 13.66-13.68	PM 16.15	TOTAL QUANTITY
1	120090A		Construction Area Signs	EA	10	12	22
2	120100		Traffic Control System	LS	0.7	0.3	1
3	120120		Type III Baricade	EA	-	6.00	6
4	120206		Portable Signal Systems (EA)	EA	2	-1	2
5	129000		Temporary Railing (Type K)	LF	460	-	460
6	129110A		Temporary Crash Cushion (Absorb-M, MASH TL-2)	EA	2	-	2
7	130100		Job Site Management	LS	0.5	0.5	1
8	130200		Prepare Water Pollution Control Program	LS	0.5	0.5	1
9	130310		Rain Event Action Plan	EA	8	8	16
10	130320		Stormwater Sampling and Analysis Day	EA	8	8	16
11	130330		Stormwater Annual Report	EA	0.50	0.50	1
12	130610		Temporary Check Dam	LF	100	-	100
13	130620		Temporary Drainage Inlet Protection	EA	1		1
14	130680		Temporary Silt Fence	LF	380	E)	380
15	130900		Temporary Concrete Washout	LS	-	1	1
16	131201		Temporary Creek Diversion System	LS	-	1	1
17	146001		Contractor Supplied Biologist	DAY	-	15	15
18	160110		Temporary High-Visibility Fence	LF	-	300	300
19	170103		Clearing and Grubbing (LS)	LS	0.8	0.2	1
20	173002		Log/Root Wad Structure	EA	-	1	1
21	190101		Roadway Excavation	CY	7700	76	7776
22	190136		Roadway Excavation (Detour)	LS	-	1	1
23	192001	F	Structure Excavation	CY		475	475
24	193001	F	Structure Backfill	CY	-	112	112
25	198050		Embankment	CY	6360	51	6411
26	198250A		Geosynthetic Reinforcement (Primary Reinforcement)	SQYD	5530	-	5530
27	198250B		Geosynthetic Reinforcement (Secondary Reinforcement)	SQYD	990	-	990
28	210212		Dry Seed (SQFT)	SQFT	15110	-	15110
29	210280A		Rolled Erosion Control Product (Blanket) (Type B)	SQFT	13780	-	13780
30	210350		Fiber Rolls	LF	1090	-	1090
31	210420		Straw	SQFT	1330	-	1330
32	260203		Class 2 Aggregate Base (CY)	CY	350	80	430
33	390132		Hot Mix Asphalt (Type A)	TON	260	54	314
34	394073		Place Hot Mix Asphalt Dike (Type A)	LF	252	-	252
35	514000A	F		LF	-	38	38
36	514001A	F	Structural Concrete (Wingwalls, Parapets)	CY	-	25	25
37	520101	F	Bar Reinforcing Steel (Wingwalls, Parapets)	LBS	-	3170	3170
38	641113A		24" Plastic Pipe (HDPE Type S)	LF	79	-1	79
39	680902		6" Perforated Plastic Pipe Underdrain	LF	462	-	462
40	680903		6" Non-Perforated Plastic Pipe Underdrain	LF	183	-1	183
41	682022	F	Class 1 Permeable Material (Blanket)	CY	940	E)	940
42	691900		Flume Downdrain	LF	10	=	10
43	692101		Tapered Inlet	EA	1	=1	1
44	692309		24" Anchor Assembly	EA	1	-1	1
45	692361		Flume Anchor Assembly	EA	1	-	1
46	700655		48" Corrugated Steel Pipe Inlet (.109" Thick)	LF	7	-	7
47	710130		Remove Culvert (EA)	EA	1	2	3
48	720000		Engineered Streambed Material	CY	-	67	67
49	723070		Rock Slope Protection (150 lb, Class III, Method B) (CY)	CY	5	-	5
50	723080		Rock Slope Protection (60 lb, Class II, Method B) (CY)	CY	13	- 1	13
51	839491		Cable Railing	LF	FI	91	91
52	840504		4" Thermoplastic Traffic Stripe	LF	530	-	530
53	999990		Mobilization	LS	0.8	0.2	1

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 ROAD NAME:
 MATTOLE ROAD
 DESIGN SECTION ENGINEERING

 MILE POST:
 13.66 - 13.68, 16.15
 DESIGNE BY:
 C.PENNY

 PROJECT NO.:
 ER-32L0(252), ER-32L0(253)
 DRAWN BY:
 C.PENNY

 CONTRACT NO.:
 217204, 217424
 REVIEWED BY:
 J.SVEHLA

 PLOT DATE:
 03/14/2024
 APPROVED BY:
 J.SVEHLA

STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

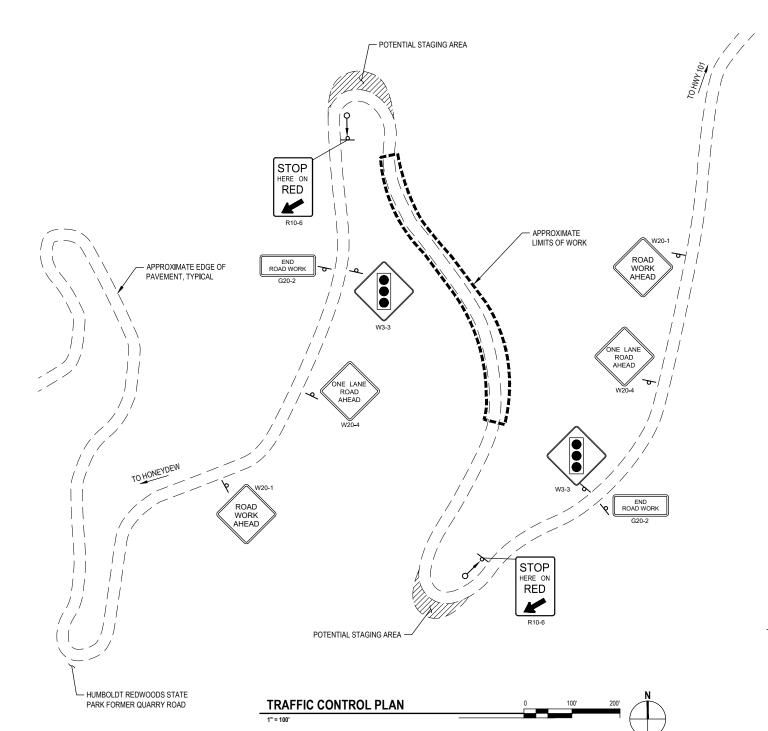
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

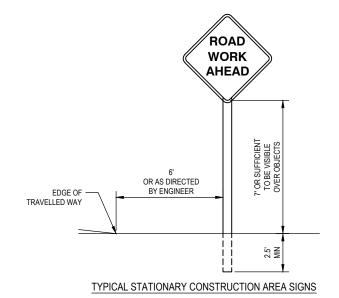
PM 13.66-13.68 TRAFFIC CONTROL AND STAGING-STOCKPILE LOCATIONS

28

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER & POST SIZE	NO. OF SIGNS
W20-1	36"x36"	ROAD WORK AHEAD	(1) 4"x4"	2
G20-2	36"x18"	END ROAD WORK	(1) 4"x4"	2
W20-4	36"x36"	ONE LANE ROAD AHEAD	(1) 4"x4"	2
W3-3	36"x36"	SIGNAL WARNING	(1) 4"x4"	2
R10-6	24"x36"	STOP HERE ON RED	(1) 4"x4"	2





TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) AND CALTRANS 2023 STANDARD PLANS.
- EXACT SIGN LOCATIONS AND POSITIONS TO BE APPROVED BY THE ENGINEER.
- ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
- ALTERNATIVE POST CONFIGURATION TO BE APPROVED BY ENGINEER.
- REFER TO FIGURE 6H-12 FOR LANE CLOSURE ON A TWO-LANE ROAD USING TRAFFIC CONTROL SIGNALS (TA-12).
- 6. MAINTAIN ALL SIGNS THROUGHOUT DURATION OF CONSTRUCTION.
- 7. MAINTAIN ONE TRAVEL LANE AT ALL TIMES.
- 8. PROVIDE FLAGGERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION.

LEGEND



TRAFFIC SIGNAL

STOCKPILE NOTES:

STANDARD SPECIFICATIONS.

MANAGE MATERIAL STOCKPILE PER SECTION 13-4.03(C) OF CALTRANS

STOCKPILE SHALL HAVE FIBER ROLL, HAY BALES, SILT FENCE, OR OTHER

STOCKPILE SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE

IF TEMPORARY CULVERTS ARE INSTALLED IN THE DITCH LINE - DITCH LINE

ALTERNATE STOCKPILE AND STAGING SITES SHALL BE PRE-APPROVED

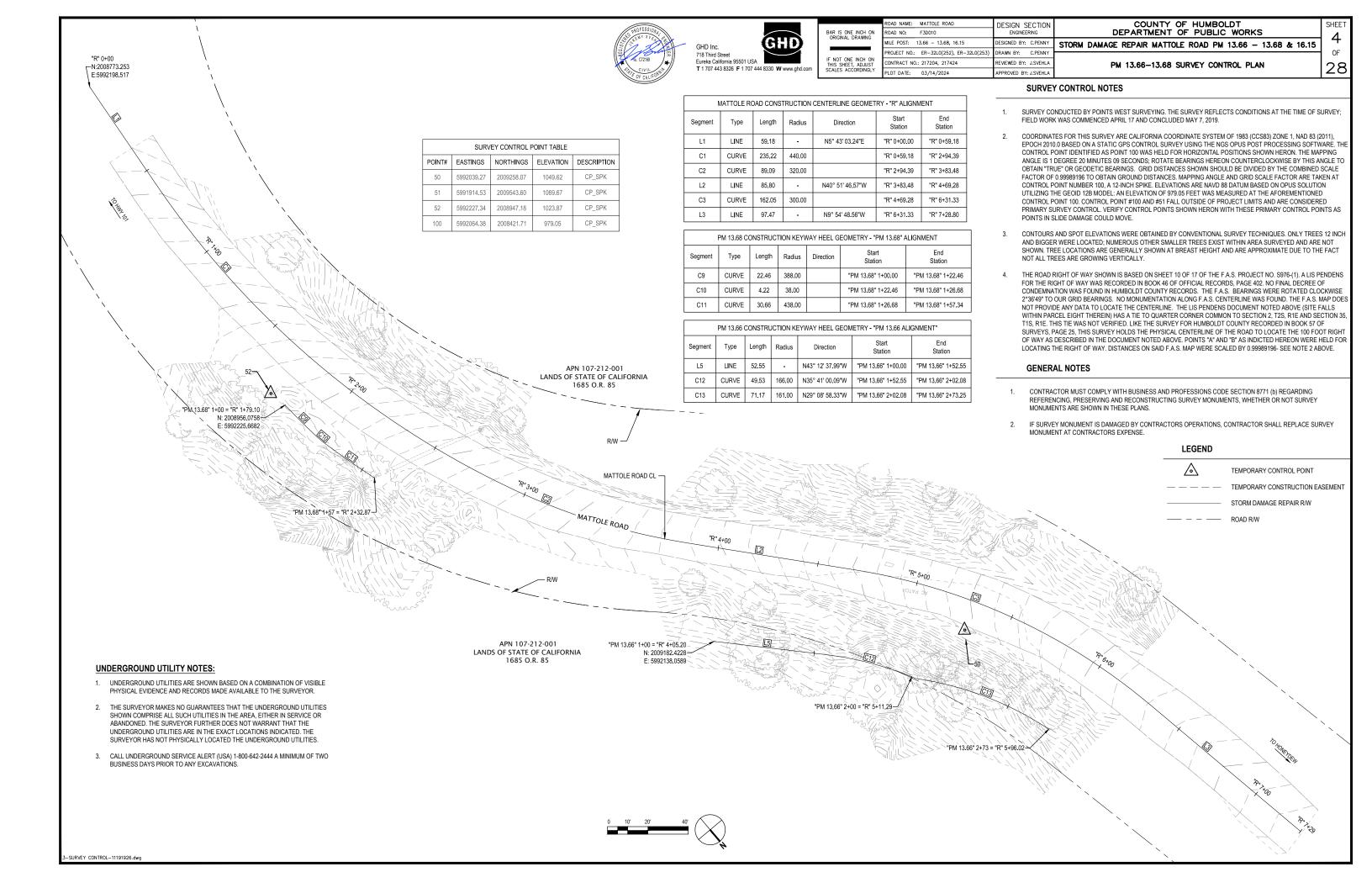
IF STOCKPILE AREA IS IN A TURNOUT - THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS

WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN

APPROVED LINEAR BARRIER AROUND STOCKPILE.

SHALL BE RECONSTRUCTED AT END OF PROJECT.

THROUGH PUBLIC WORKS WITH WRITTEN APPROVAL.





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DIAMINO	MILE POST: 13.66 - 13.68, 16.15		DESIGNED BY:	C.PENN
	PROJECT NO.: ER-32L0(252), ER-32L0(252)	53)	DRAWN BY:	C.PENN
I, ADJUST	CONTRACT NO.: 217204, 217424		REVIEWED BY:	J.SVEHL
CORDINGLY	PLOT DATE: 03/14/2024		APPROVED BY:	J.SVEHL

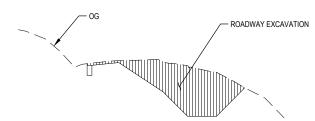
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

PM 13.66-13.68 TYPICAL SECTIONS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

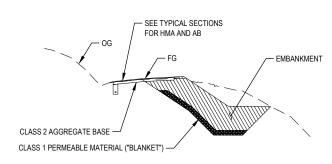
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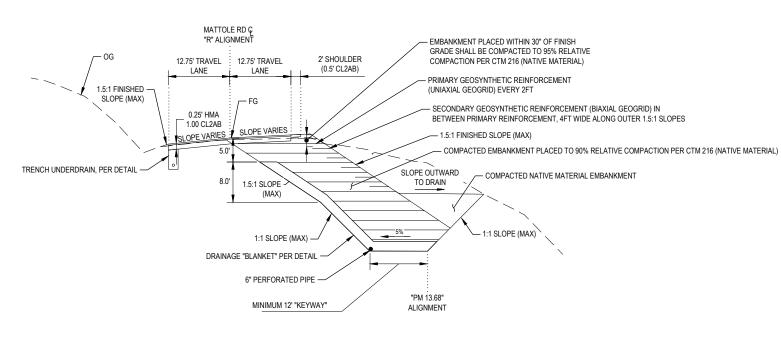
LMITS OF PAYMENT - CUT PM 13.68

NOT TO SCALE



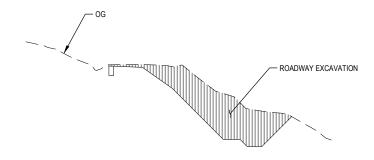
LIMITS OF PAYMENT - FILL PM 13.68

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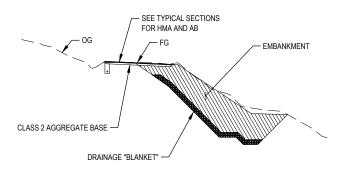
TYPICAL SECTION - MATTOLE ROAD PM 13.68

NOT TO SCALE STA 1+79 TO STA 2+33



LIMITS OF PAYMENT - CUT PM 13.66

NOT TO SCA



LIMITS OF PAYMENT - FILL PM 13.66

MATTOLE RD & "R" ALIGNMENT 12.75' TRAVEL 12.75' TRAVEL 2' PAVED LANE - EMBANKMENT PLACED WITHIN 30" OF FINISH GRADE SHALL BE COMPACTED TO 95% RELATIVE 1.5:1 FINISHED -COMPACTION PER CTM 216 (NATIVE MATERIAL) SLOPE (MAX) PRIMARY GEOSYNTHETIC REINFORCEMENT (UNIAXIAL GEOGRID) EVERY 2FT - SECONDARY GEOSYNTHETIC REINFORCEMENT (BIAXIAL 0.25' HMA GEOGRID) IN BETWEEN PRIMARY REINFORCEMENT, 4FT WIDE ALONG OUTER 1.5:1 SLOPES 1.00 CL2AB - 1.5:1 FINISHED SLOPE (MAX) TRENCH UNDERDRAIN, PER DETAIL - COMPACTED EMBANKMENT PLACED TO 90% RELATIVE COMPACTION PER CTM 216 (NATIVE MATERIAL) 1.5:1 SLOPE (MAX) -SLOPE OUTWARD TO DRAIN 1:1 SLOPE (MAX) - 1:1 SLOPE (MAX) DRAINAGE "BLANKET" PER DETAIL 1:1 SLOPE (MAX) 6" PERFORATED PIPE "PM 13.66" MINIMUM 16' "KEYWAY"

TYPICAL SECTION - MATTOLE ROAD PM 13.66

NOT TO SCALE

STA 4+05 TO STA 5+96

MATTOLE RD ©
"R" ALIGNMENT

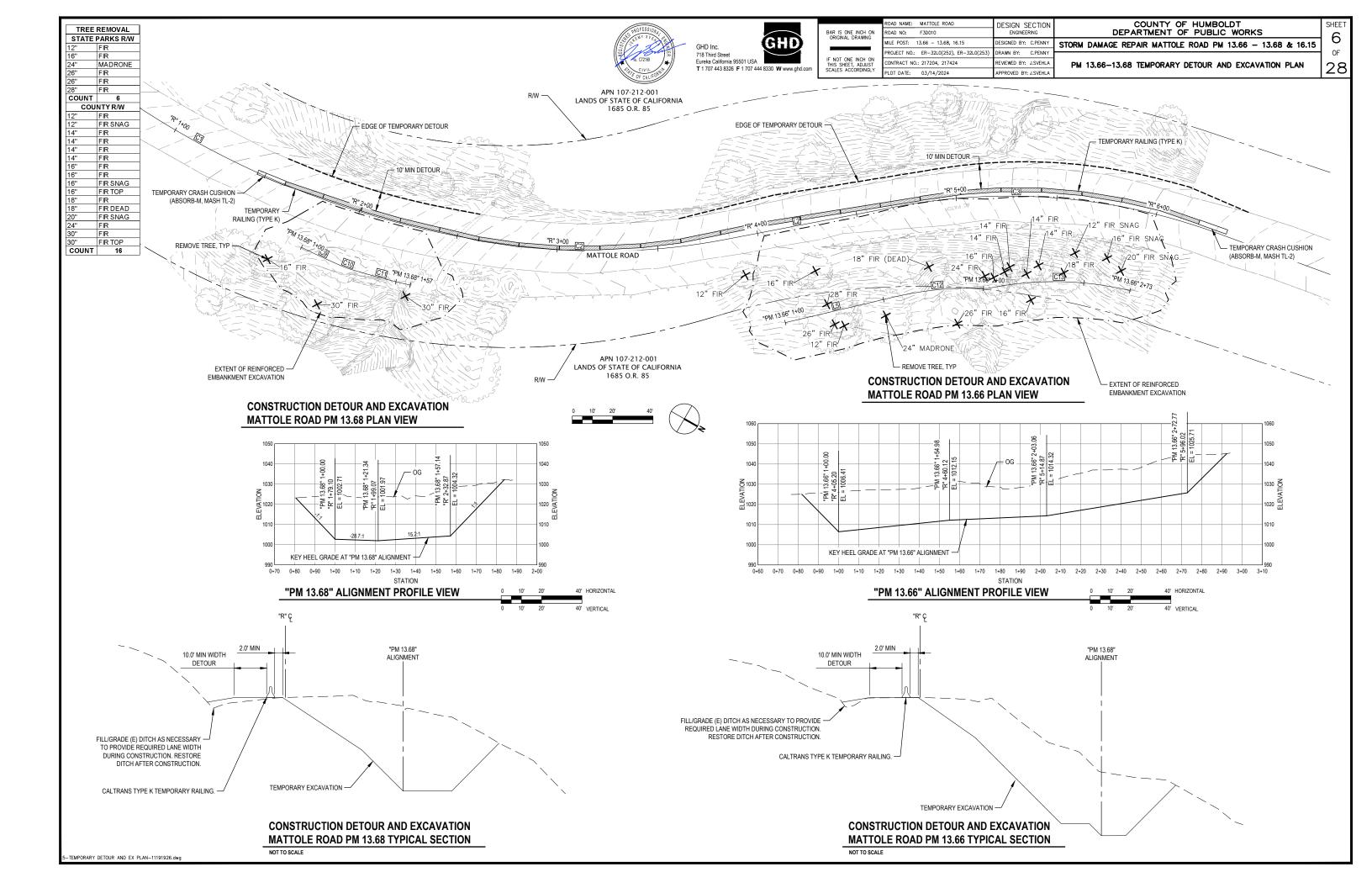
12.75' TRAVEL 12.75' TRAVEL 2' SHOULDER
(0.5' CL2AB)

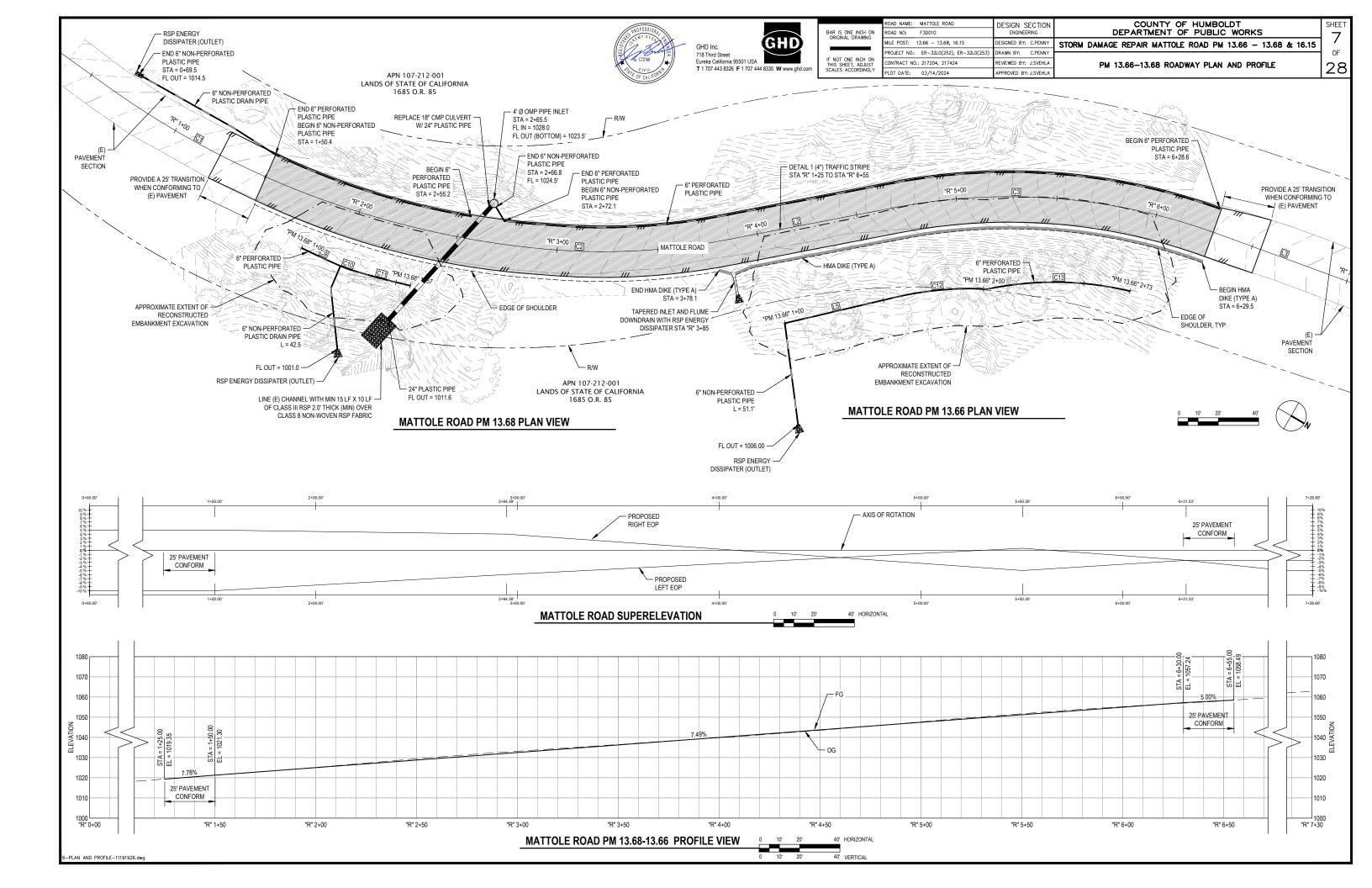
LANE LANE (0.5' CL2AB)

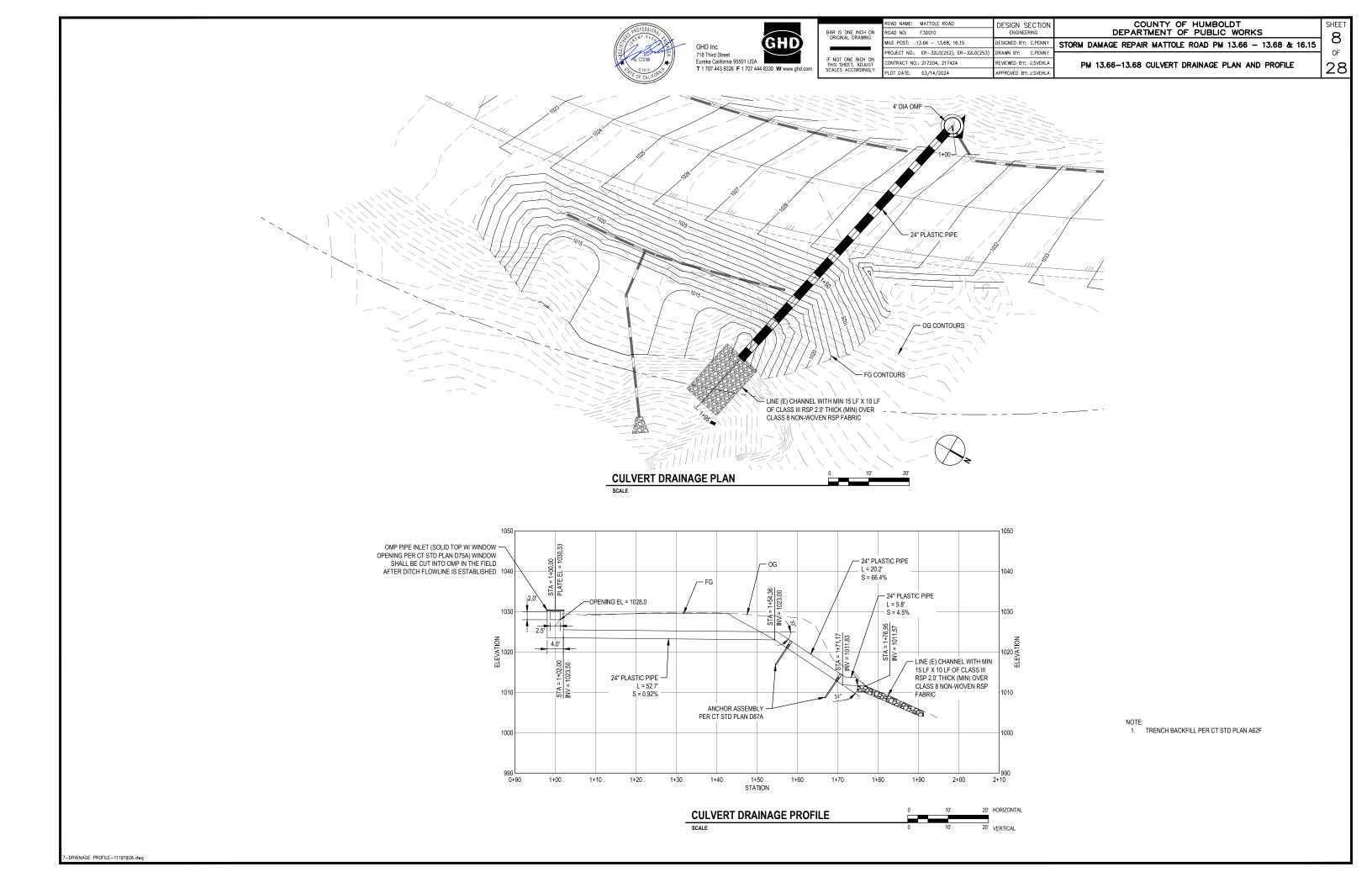
TRENCH UNDERDRAIN, PER DETAIL 0.25' HMA
1.00 CL2AB

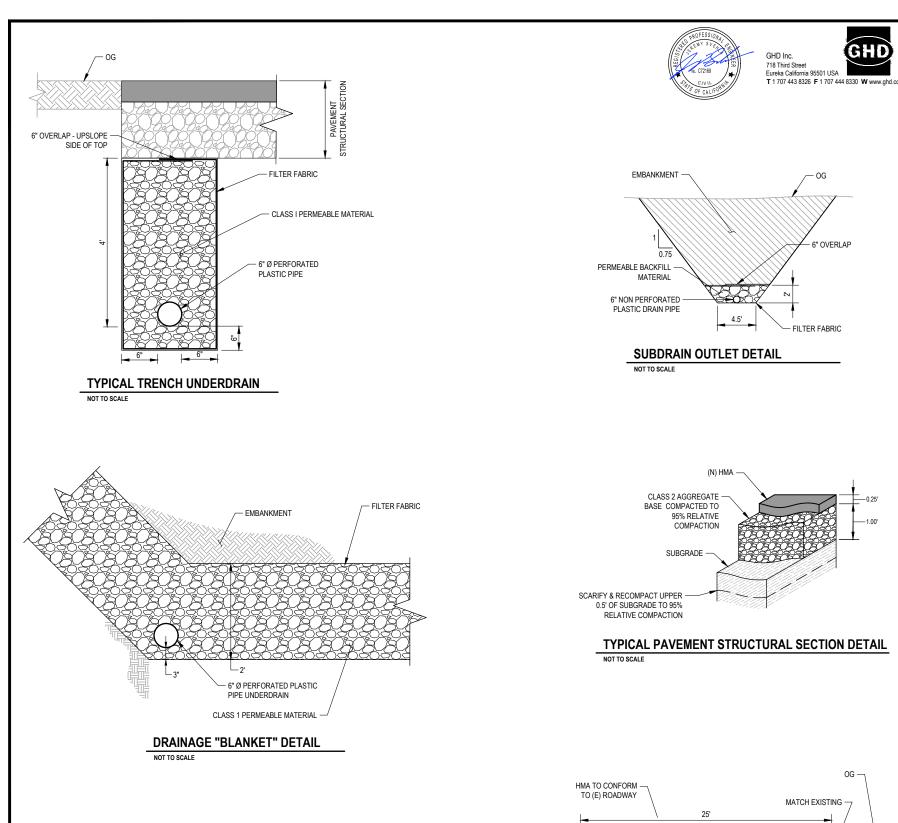
TYPICAL SECTION - MATTOLE ROAD PM 13.66

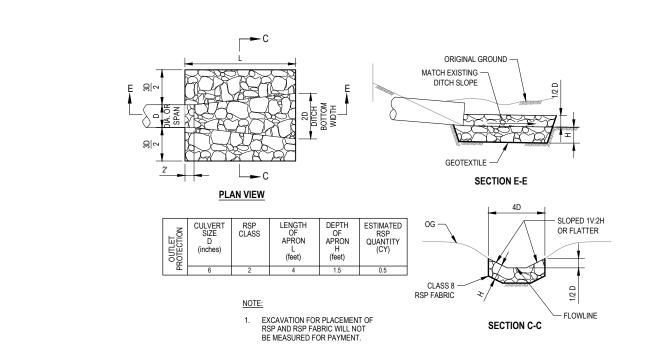
STA 1+50 TO STA 1+79, STA 2+33 TO STA 4+05, AND STA 5+96 TO STA 6+30











DESIGN SECTION

ESIGNED BY: C.PENNY

RAWN BY: C.PENNY

REVIEWED BY: J.SVEHLA

APPROVED BY: J.SVEHLA

OAD NO: F3D010

ILE POST: 13.66 - 13.68, 16.15

ONTRACT NO.: 217204, 217424

LOT DATE: 03/14/2024

ROJECT NO.: ER-32L0(252), ER-32L0(253)

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

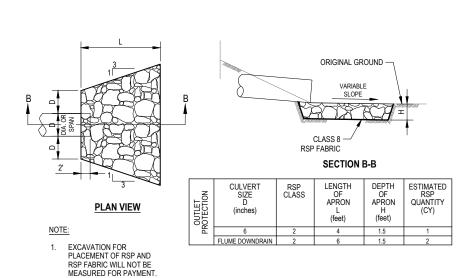
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

PM 13.66-13.68 CONSTRUCTION DETAILS

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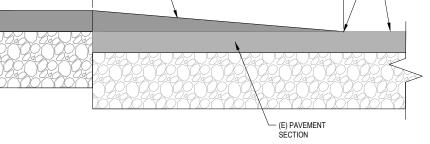
OF

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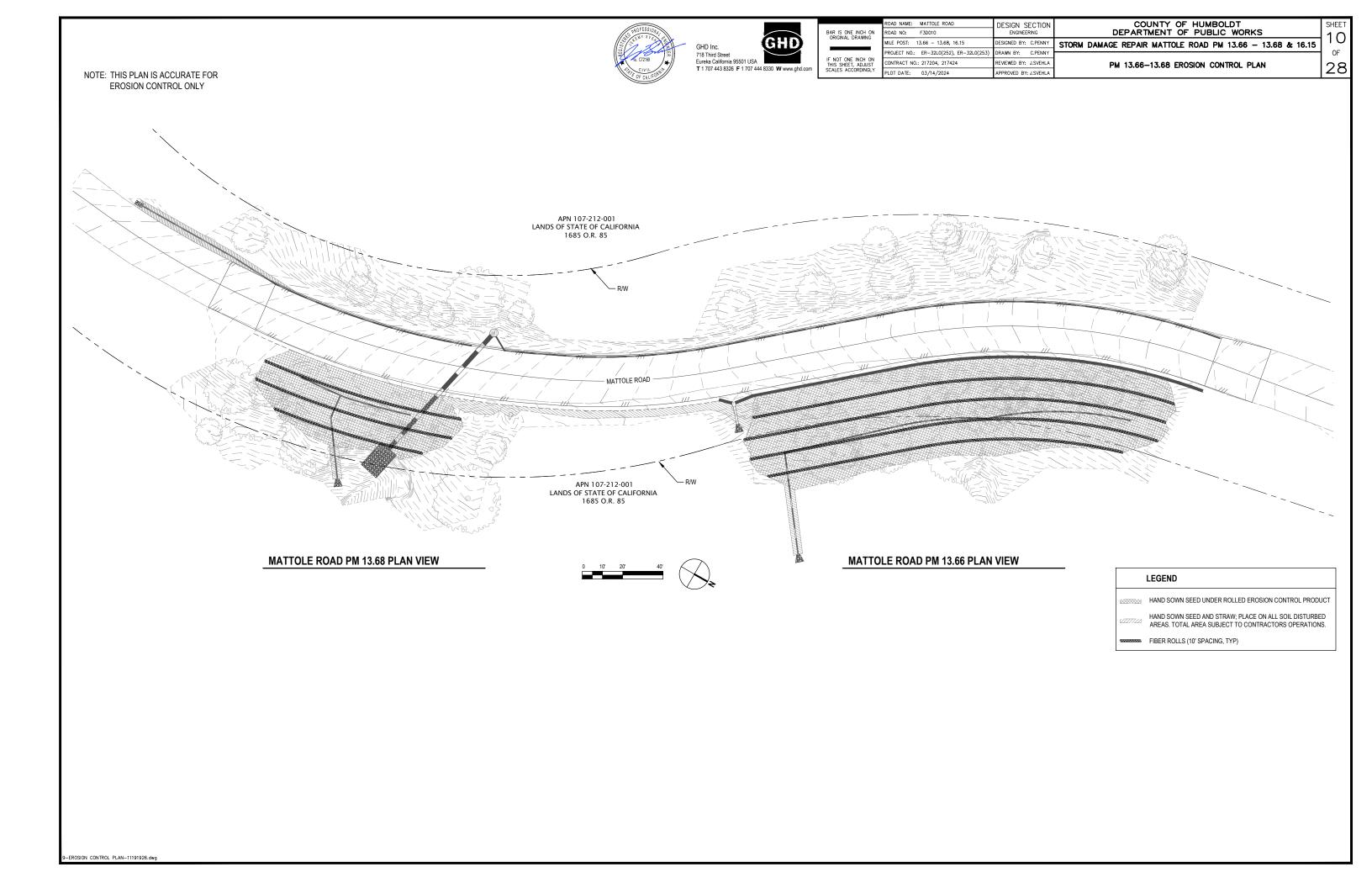
CULVERT ENERGY DISSIPATOR WITH DITCH

CULVERT ENERGY DISSIPATOR WITHOUT DITCH



PAVEMENT CONFORM DETAIL

SCALE: NTS



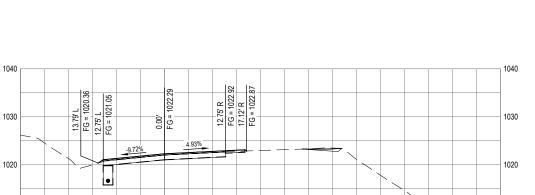


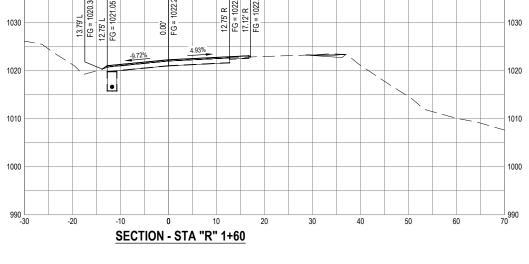
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H ON VING	ROAD NO: F3D010	ENGINEERING
WING	MILE POST: 13.66 - 13.68, 16.15	DESIGNED BY: C.PENN
_	PROJECT NO.: ER-32L0(252), ER-32L0(253)	DRAWN BY: C.PENN
0031	CONTRACT NO.: 217204, 217424	REVIEWED BY: J.SVEHI
INGLY	PLOT DATE: 03/14/2024	APPROVED BY: J.SVEHI

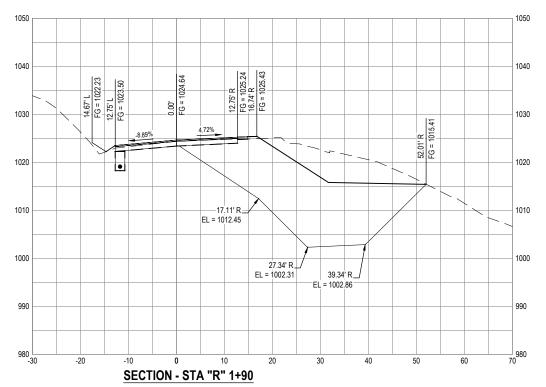
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

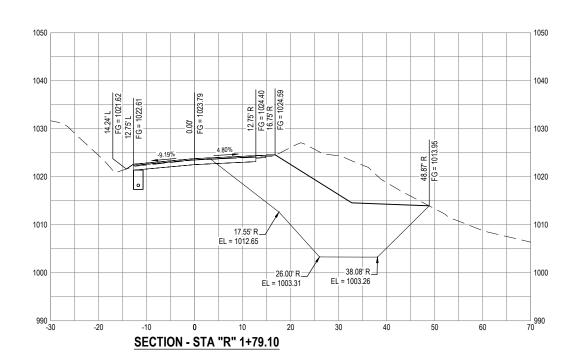
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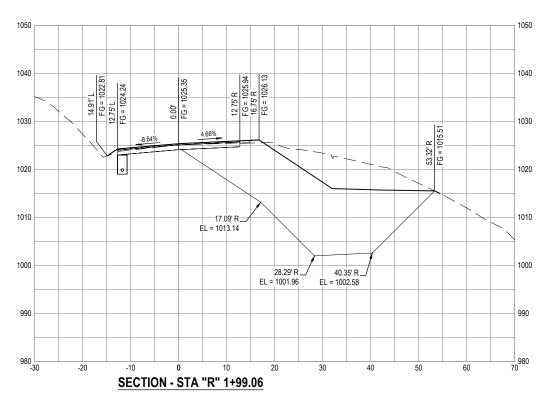
PM 13.66-13.68 CROSS SECTIONS 1 OF 6













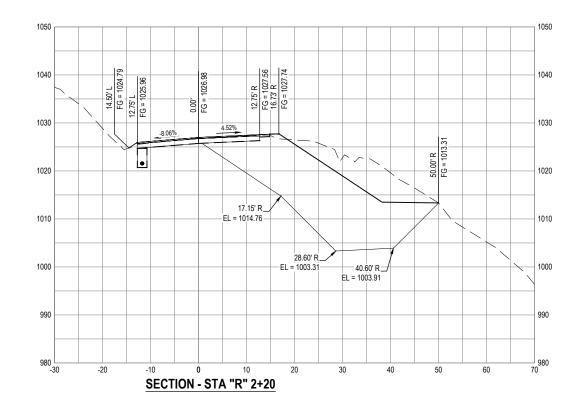
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	MILE POST: 1	3.66 - 13.68, 16.15	DESIGNED BY:	C.PENNY
ON JST GLY	PROJECT NO.:	ER-32L0(252), ER-32L0(253)	DRAWN BY:	C.PENNY
	CONTRACT NO.:	217204, 217424	REVIEWED BY:	J.SVEHLA
	PLOT DATE:	03/14/2024	APPROVED BY:	J.SVEHLA

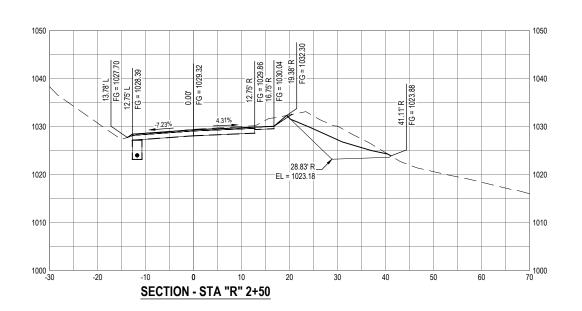
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

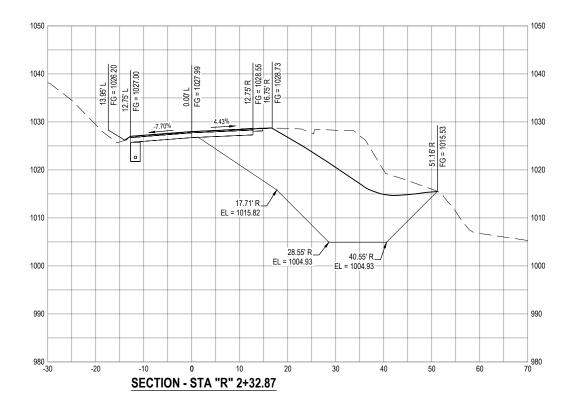
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

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PM 13.66-13.68 CROSS SECTIONS 2 OF 6









	ROAD NAME:	MATTOLE ROAD	DESIGN S	ECTION
G ■ ON	ROAD NO:	F3D010	ENGINEERING	
	MILE POST: 1	3.66 - 13.68, 16.15	DESIGNED BY:	C.PENNY
	PROJECT NO.:	ER-32L0(252), ER-32L0(253)	DRAWN BY:	C.PENNY
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	PLOT DATE:	03/14/2024	APPROVED BY:	J.SVEHLA

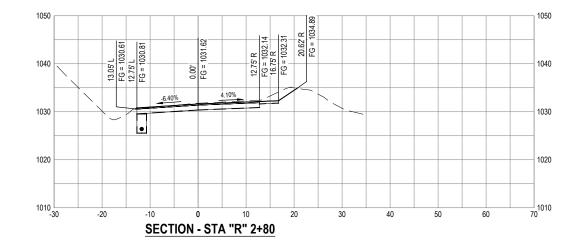
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

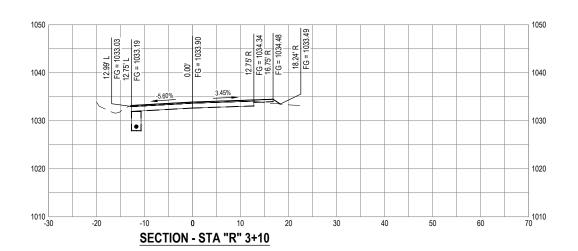
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

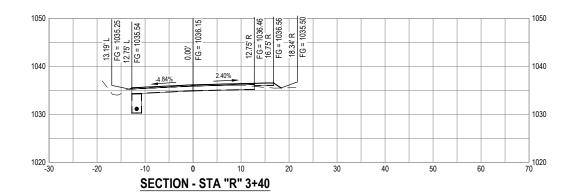
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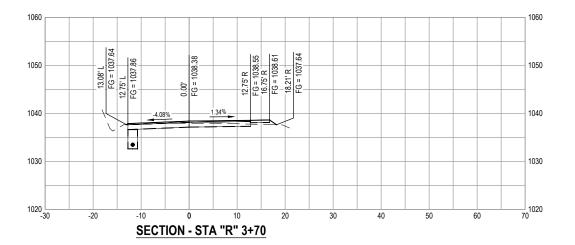
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PM 13.66-13.68 CROSS SECTIONS 3 OF 6











ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST	ROAD NAME: MATTOLE ROAD	DESIGN SECTION
	ROAD NO: F3D010	ENGINEERING
	MILE POST: 13.66 - 13.68, 16.15	DESIGNED BY: C.PEN
	PROJECT NO.: ER-32L0(252), ER-32L0(25	JRAWN BY: C.PEN
	CONTRACT NO.: 217204, 217424	REVIEWED BY: J.SVEH
SCALES ACCORDINGLY	PLOT DATE: 03/14/2024	APPROVED BY: J.SVEH

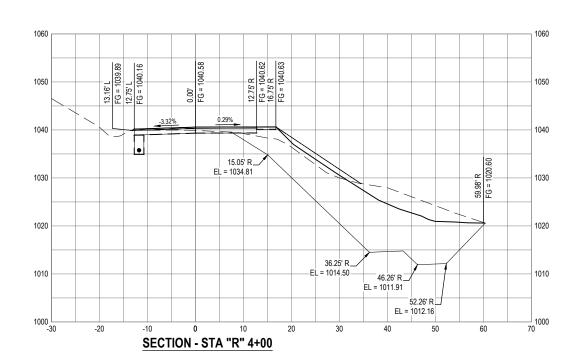
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

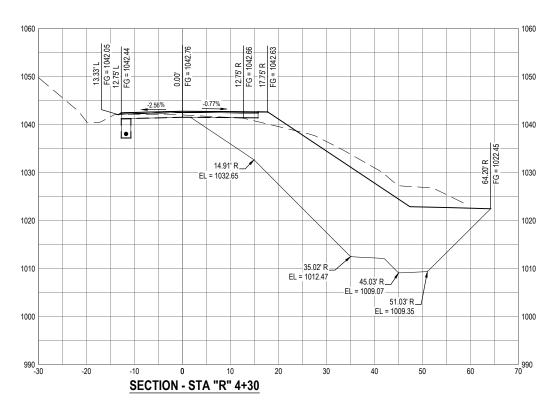
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

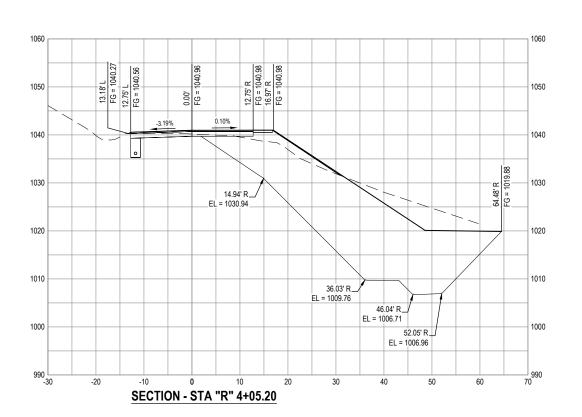
OF

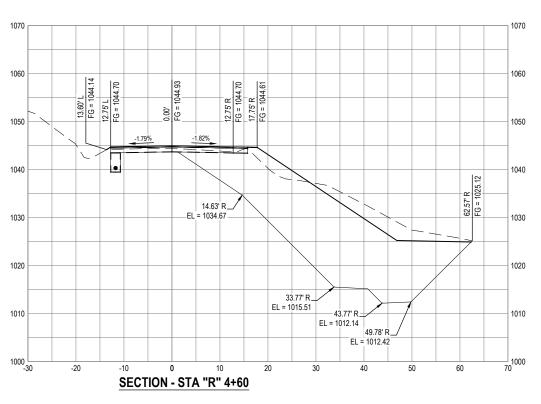
28

PM 13.66-13.68 CROSS SECTIONS 4 OF 6











BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: MATTOLE ROAD ROAD NO: F3D010	DESIGN SECTION ENGINEERING
	MILE POST: 13.66 - 13.68, 16.15	DESIGNED BY: C.PENN
	PROJECT NO.: ER-32L0(252), ER-32L0(253)	DRAWN BY: C.PENN
	CONTRACT NO.: 217204, 217424	REVIEWED BY: J.SVEH
	PLOT DATE: 03/14/2024	APPROVED BY: J.SVEH
	•	•

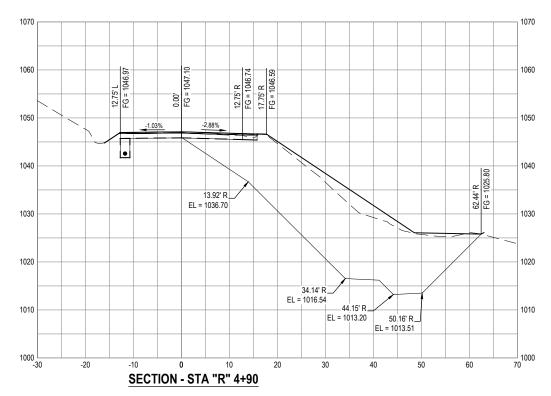
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

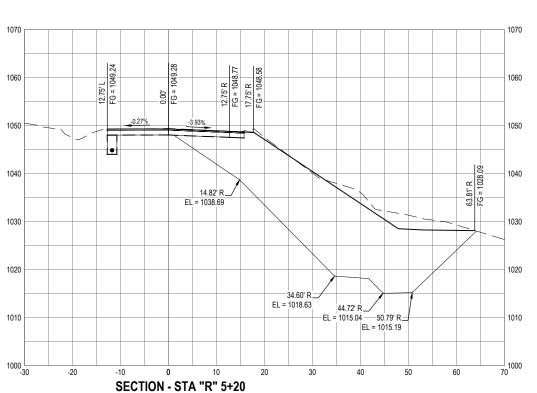
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

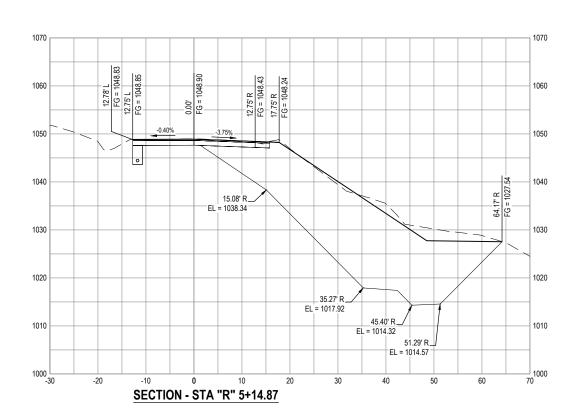
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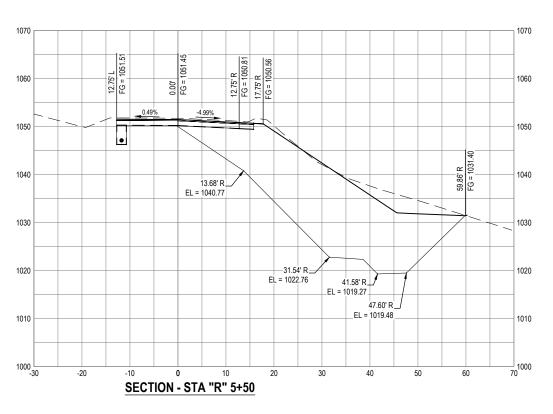
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PM 13.66-13.68 CROSS SECTIONS 5 OF 6











	ROAD NAME: MATTOLE ROAD	DESIGN SECTION
ON G	ROAD NO: F3D010	ENGINEERING
	MILE POST: 13.66 - 13.68, 16.15	DESIGNED BY: C.PENNY
	PROJECT NO.: ER-32L0(252), ER-32L0(253)	DRAWN BY: C.PENNY
	CONTRACT NO.: 217204, 217424	REVIEWED BY: J.SVEHLA
LY	PLOT DATE: 03/14/2024	APPROVED BY: J.SVEHLA

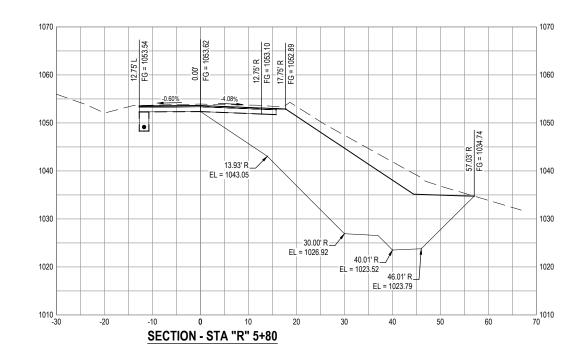
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

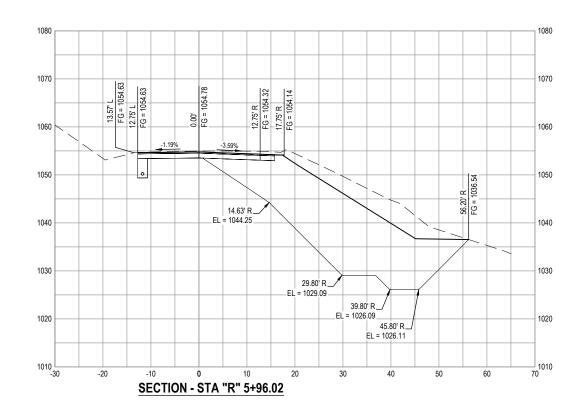
STORM DAMAGE REPAIR MATTOLE ROAD PM 13.66 - 13.68 & 16.15

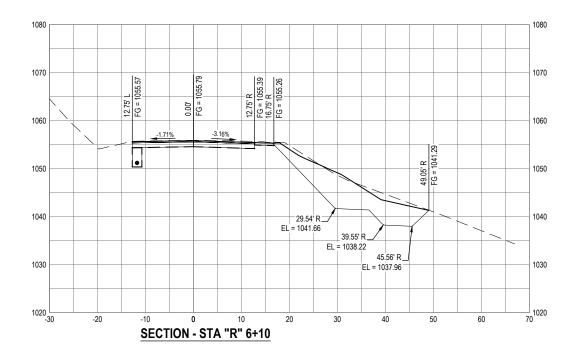
OF

28

PM 13.66-13.68 CROSS SECTIONS 6 OF 6









BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON

ROAD NAME: MATTOLE ROAD	DESIGN SECTION		
ROAD NO: F3D010	MILE POST: 16.15	ENGINEER	
PROJECT NO.: ER-32LO(253)		DESIGNED BY:	RMD
CONTRACT NO.: 217424		DRAWN BY:	RMD
DRAWING FILE NAME: 217424 CDSN 001		REVIEWED BY:	JAB
PLOT DATE: 03/05/2024	REVISION DATE:	APPROVED BY:	TRS

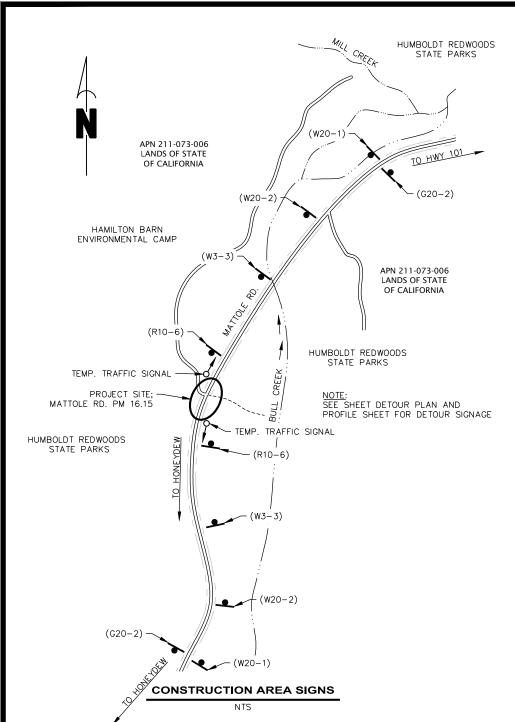
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO MATTOLE ROAD PM 16.15

SHEET

17

28

PM 16.15 CONSTRUCTION AREA SIGNS



CONSTRUCTION AREA SIGN SUMMARY					
SIGN CODE	QTY	SIGN MESSAGE	PANEL SIZE (WIDTH x HEIGHT)	POST SIZE & QTY	NOTES
(G20-2)	2	"END ROAD WORK"	36" x 18"	4" x 4" (1)	
(M4-10L)	1	"DETOUR" / *LEFT ARROW*	48" x 18"	N/A	ON TYPE 3 BARRICADE
(M4-10R)	1	"DETOUR" / *RIGHT ARROW*	48" x 18"	N/A	ON TYPE 3 BARRICADE
(R10-6)	2	"STOP HERE ON RED"	24" x 36"	4" x 4" (1)	
(R11-2)	2	"ROAD CLOSED"	48" x 30"	N/A	ON TYPE 3 BARRICADE
(W1-4R)	1	*REVERSE CURVE ARROW, RIGHT*	30" x 30"	4" x 4" (1)	
(W3-3)	2	*SIGNAL AHEAD*	30" x 30"	4" x 4" (1)	
(W11-2)	2	*NON-VEHICULAR WARNING, PEDESTRIAN*	30" x 30"	4" x 4" (1)	
(W11-15P)	2	"TRAIL X-ING"	18" x 12"	N/A	ON (W11-2) SIGN POST
(W13-1P)	2	"15 M.P.H."	18" x 18"	N/A	ON (W24-1L/R) SIGN POST
(W20-1)	2	"ROAD WORK AHEAD"	36" x 36"	4" x 4" (1)	
(W20-2)	2	"DETOUR AHEAD"	36" x 36"	4" x 4" (1)	
(W24-1L)	1	*DOUBLE REVERSE CURVE ARROW, LEFT*	36" x 36"	4" x 4" (1)	
(W24-1R)	1	*DOUBLE REVERSE CURVE ARROW, RIGHT*	36" x 36"	4" x 4" (1)	

END ROAD WORK (G20-2)















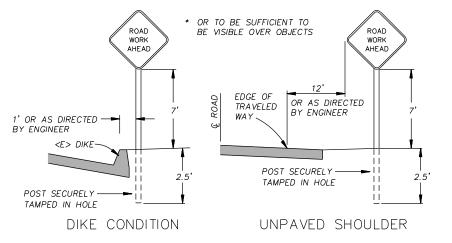






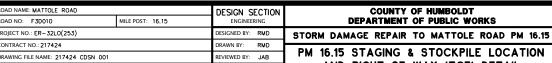
NOTES

- 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. PLACE SIGNS APPROXIMATELY 500 FEET APART
- 7. DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE
- 8. 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.
- 9. CONTRACTOR MUST PROVIDE A MINIMUM OF 14 DAYS NOTICE OF COMPLETE ROAD CLOSURE TO



RURAL CONSTRUCTION AREA SIGN

- NOT TO SCALE -



PM 16.15 STAGING & STOCKPILE LOCATION AND RIGHT OF WAY (TCE) DETAIL

SHEET

18

OF

28

POTENTIAL STAGING & STOC LESS THAN OR EQUAL TO APPROX. O.8 MILES FROM P	0 22,800 SF \	ALBEE CREEK CAMPGROUND	LDT REDWOODS ATE PARKS
APN 211-073-006 LANDS OF STATE OF CALIFORNIA HUMBOLDT REDWOODS STATE PARKS		MATTOLE RD.	ROW SUMMARY:
HAMILTON BARN	APN 211-073-006 LANDS OF STATE OF CALIFORNIA POTENTIAL STAGING AND STOCKPILE LOCATION NOT TO SCALE	HUMBOLDT REDWOODS STATE PARKS	WEST SIDE TCE = 1,600 SQFT EAST SIDE TCE = 7,300 SQFT STAGING/STOCKPILE AREA = 22,800 SQFT TOTAL TCE AREA: 31,700 SQFT
ENVIRONMENTAL CAMP			E> EP

HUMBOLDT REDWOODS STATE PARKS

FOOT PATH / TRAIL TO BULL CREEK

<P> TEMPORARY CONSTRUCTION EASEMENTS; SEE DETAIL THIS SHEET

ROAD NAME: MATTOLE ROAD

ROJECT NO.: ER-32L0(253)

LOT DATE: 03/05/2024

ONTRACT NO.: 217424

ROAD NO: F3D010

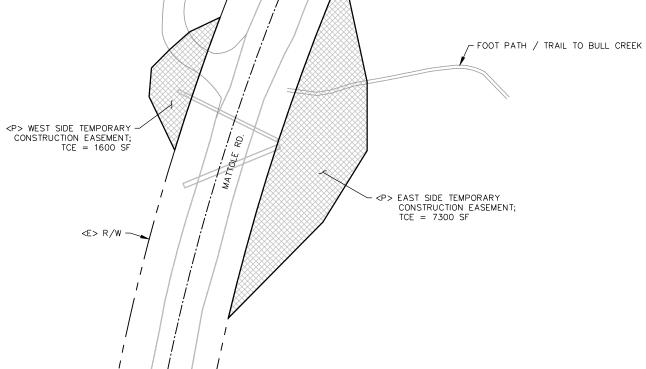
BAR IS ONE INCH ON ORIGINAL DRAWING

STOCKPILE NOTES- STD PLAN T53

- 1) MANAGE MATERIAL STOCKPILE PER SECTION 13-4.03(C) OF CALTRANS STANDARD SPECIFICATIONS
- 2) IF STOCKPILE AREA IS IN A TURNOUT, THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.

PROJECT SITE; MATTOLE RD. PM 16.15

STOCKPILE LOCATION SHOWN HAS BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT.
ALTERNATIVE SITES MAY BE APPROVED THROUGH PUBLIC WORKS



TEMPORARY CONSTRUCTION

EASEMENT DETAIL NOT TO SCALE

AD NAME: MATTOLE ROAD DESIGN SECTION MILE POST: 16.15 OAD NO: F3D010 OJECT NO.: ER-32L0(253) NTRACT NO.: 217424 RAWN BY: RMD AWING FILE NAME: 217424 CDSN 001 REVIEWED BY: JAB

Description

CP_SPK

CP SPK

CP_SPK

CP_SPK

CP_SPK

CONTROL POINTS

Elevation

Easting

BAR IS ONE INCH ON ORIGINAL DRAWING

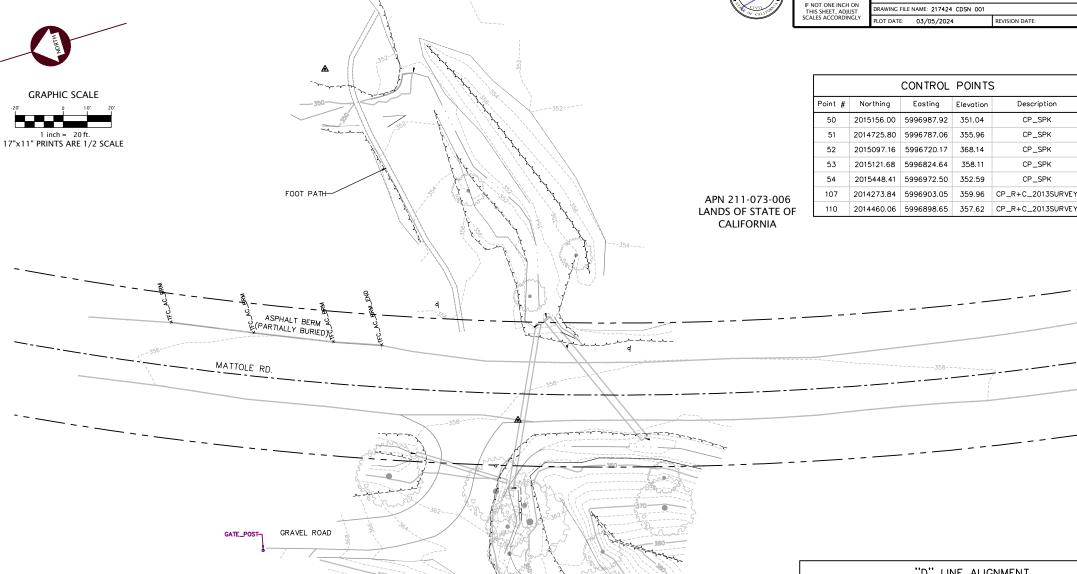
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO MATTOLE ROAD PM 16.15

PM 16.15 SURVEY CONTROL AND ALIGNMENT DATA

28

SHEET

19



"M" LINE ALIGNMENT

1399.89' 584.46'

STA: 8+99.19 STA: 20+06.51

N: 2015486.32 N: 2014434.54 E: 5997022.59 E: 5996783.18

STA: 0+00.00 STA: 8+99.19 N: 2016218.51 N: 2015486.32 E: 5997544.54 E: 5997022.59

STA: 20+06.51 STA: 23+99.56

N: 2014434.54 N: 2014047.28 E: 5996783.18 E: 5996850.33

SEGMENT LENGTH BEARING/DELTA RADIUS TANGENT

045'19'17"

S35'29'02"W

S09*50'15"E

1107.32

899,19

393.05

	"D" LINE ALIGNMENT					
SEGMENT	LENGTH	BEARING/DELTA	RADIUS	TANGENT	START	END
C10	31.83'	036'28'26"	50.00'	16.47'	STA: 0+01.33 N: 2015251.84 E: 5996888.99	STA: 0+33.16 N: 2015220.70 E: 5996885.86
C11	26.77'	030'40'55"	50.00'	13.72'	STA: 0+95.50 N: 2015159.83 E: 5996899.35	STA: 1+22.28 N: 2015133.40 E: 5996898.03
C12	21.01'	024*04'12"	50.00'	10.66'	STA: 1+92.38 N: 2015066.80 E: 5996876.15	STA: 2+13.39 N: 2015048.79 E: 5996865.66
C13	26.95'	030*52'59"	50.00'	13.81'	STA: 3+03.49 N: 2014982.10 E: 5996805.07	STA: 3+30.44 N: 2014958.34 E: 5996793.05
L10	1.33'	S23*58'49"W			STA: 0+00.00 N: 2015253.05 E: 5996889.53	STA: 0+01.33 N: 2015251.84 E: 5996888.99
L11	62.35'	S12'29'37"E			STA: 0+33.16 N: 2015220.70 E: 5996885.86	STA: 0+95.50 N: 2015159.83 E: 5996899.35
L12	70.10'	S18'11'18"W			STA: 1+22.28 N: 2015133.40 E: 5996898.03	STA: 1+92.38 N: 2015066.80 E: 5996876.15
L13	90.10'	S42'15'30"W			STA: 2+13.39 N: 2015048.79 E: 5996865.66	STA: 3+03.49 N: 2014982.10 E: 5996805.07
L14	6.57'	S11'22'31"W			STA: 3+30.44 N: 2014958.34 E: 5996793.05	STA: 3+37.01 N: 2014951.90 E: 5996791.76

SEE PROJECT DESIGN SHEETS FOR ALIGNMENT PLAN & PROFILE VIEWS

SURVEY NOTES:

- 1. The purpose of this survey is to determine topography for a box culvert replacement to repair a failing culvert that spans the road at Post Mile 16.15 of Mattole Road at the Hamilton Barn Environmental Campground (also known as Bull Creek Rd.). This survey reflects conditions at the time of survey; field work was commenced August 12, and concluded August 13,
- 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 was held for horizontal positions shown hereon. The mapping angle is 1 degree 19 minutes 29 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 0.99991913 to obtain ground distances. Mapping angle and grid scale factor are taken at control point number 50, a 12 inch spike. Elevations are NAVD 88 datum based on OPUS solution utilizing the GEOID 12B model: an elevation of 351.04 feet was measured at the aforementioned Control Point 50. Control established on this survey was used to check point numbers 110 and 107 from the Control Survey for the Ca. State Parks Bull Creek project performed in June of 2013 by this office an was found to fit prior work. Contro Point #51 and #54 fall outside of project limits and are considered "primary" survey control. Verify control points shown hereon with these primary control points as points in construction area could move and/or be destroyed.
- Contours and spot elevations were obtained by conventional survey techniques. Only trees 12 inch and bigger were located; numerous other smaller trees exist within area surveyed and are not shown. Tree locations are generally shown at breast height and are approximate due to the fact not all trees are growing vertically.
- 4. The Right of Way shown is based on Sheet 4 of 29 of the County of Humboldt plans Project No. ER-292-(7) dated May 31, 1966. The right of way was pinned to the physical centerline of the beginning of curve Station 14+90.38 and the physical centerline of the road south of job site. No deed for said right of way was provided by County. Distances on said Project were scaled by 0.99991913- see Note 2 above.

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

Mattole Road PM 16.15 **Humboldt County Project No. 217424** Task Order No. DPW 2017-005-T.O. #26 SECTION 25, T1S, R1E,

HUMBOLDT MERIDIAN IN THE UNINCORPORATED AREA OF, HUMBOLDT COUNTY, STATE OF CALIFORNIA Date: August 2019

SCALE: 1" = 20'

SHEET 1 OF 1



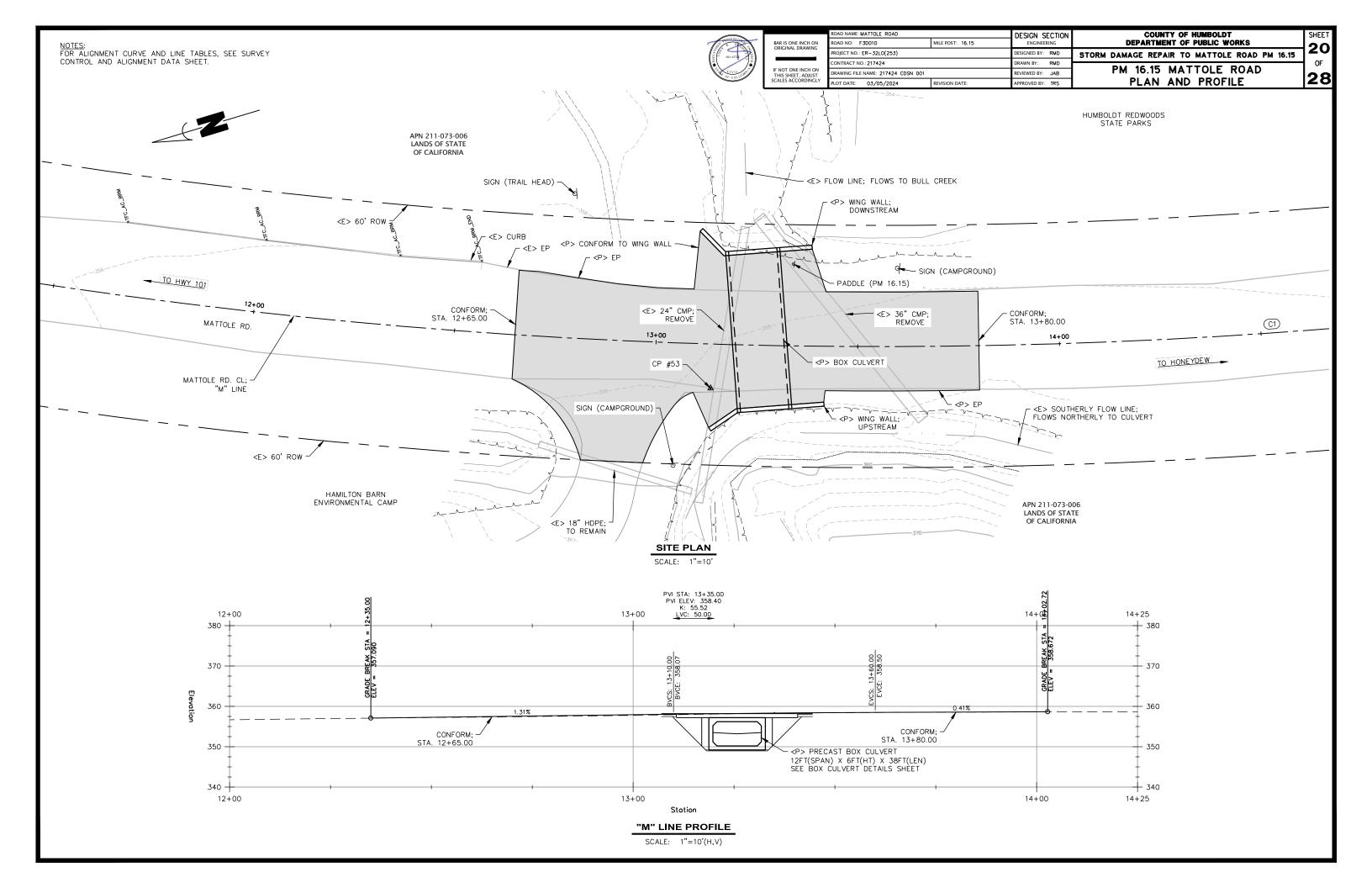
LEGEND SURVEY CONTROL POINT RIGHT OF WAY CENTERLINE RIGHT OF WAY EASEMENT LINES DRAINAGE FLOW LINE EDGES OF PAVEMENT

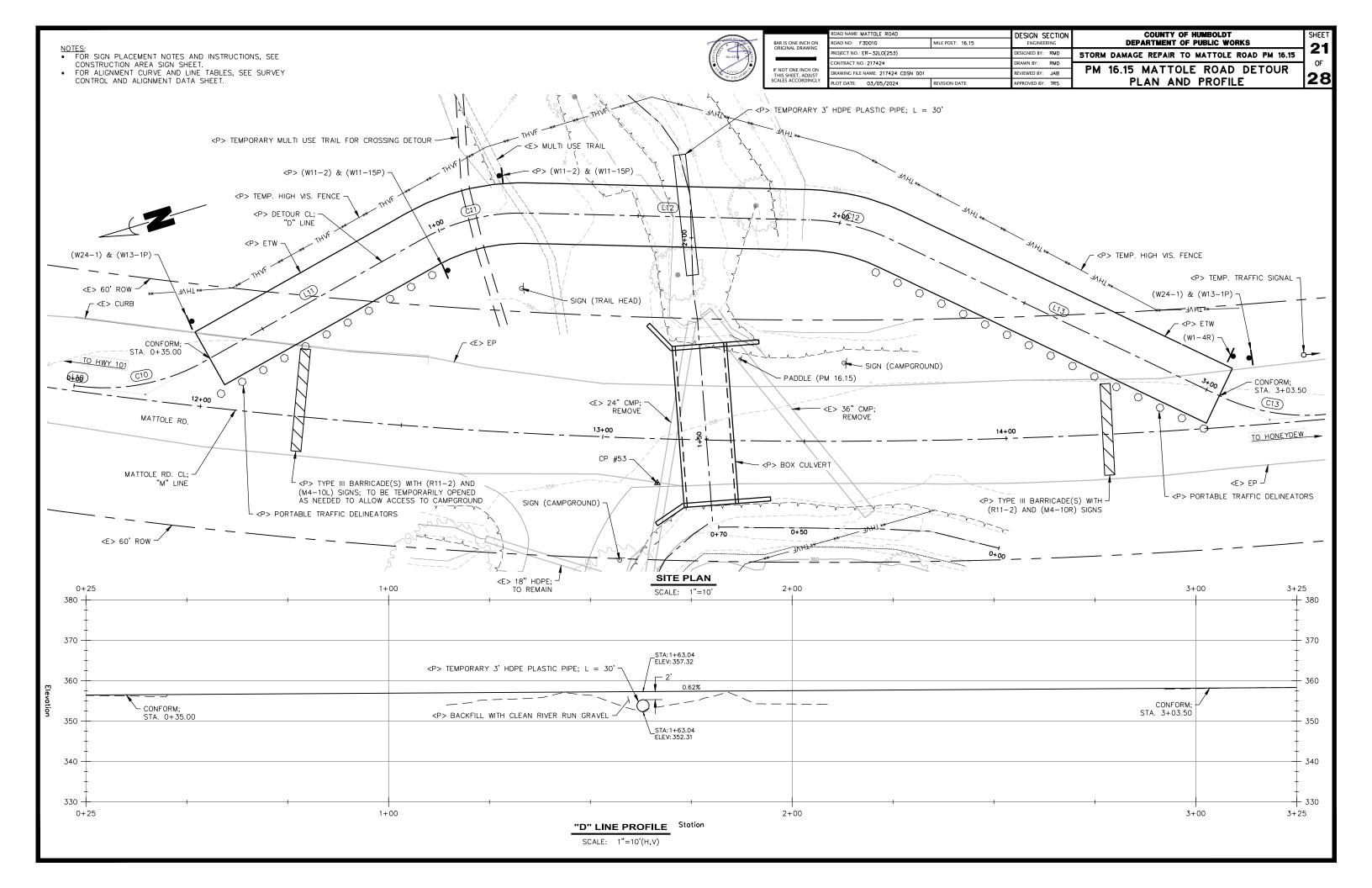
CRACKS IN ASPHALT PAVEMENT EDGE OF TRAVELED WAY (DIRT ROAD) EXISTING GROUND CONTOURS — —_V— —_V— —_V— TOP OF SLOPE — — — — — — TOE OF SLOPE / GRADE BREAK

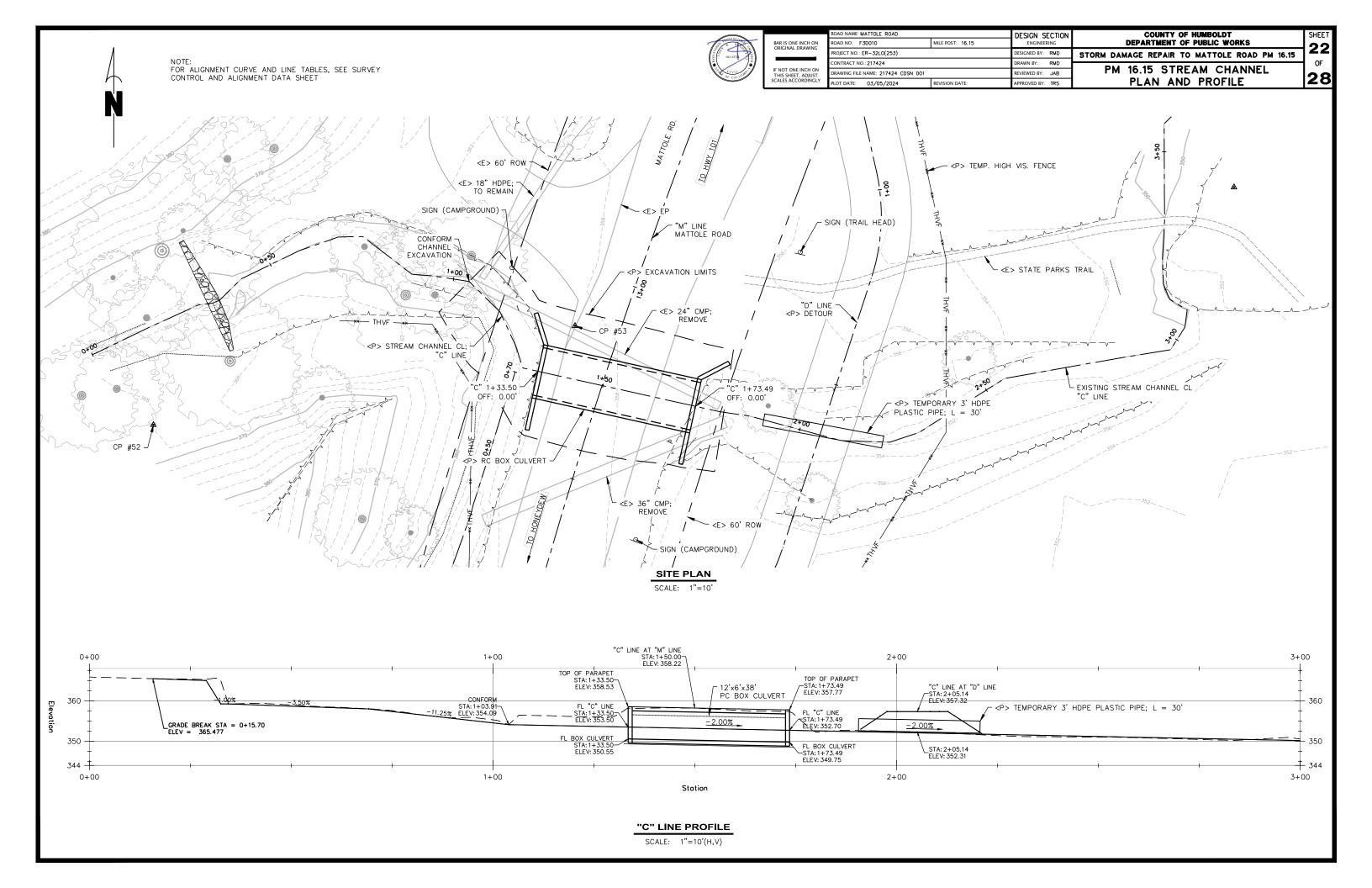
STORM DRAIN CULVERT

TELEPHONE POLE

OVERHEAD TELEPHONE LINE











BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEFT ADJUST

ROAD NAME: MATTOLE ROAD		DESIGN S	FCTION
ROAD NO: F3D010	MILE POST: 16.15	ENGINEER	
PROJECT NO.: ER-32L0(253)		DESIGNED BY:	RMD
CONTRACT NO.: 217424		DRAWN BY:	RMD
DRAWING FILE NAME: 217424 CDSN 001		REVIEWED BY:	JAB

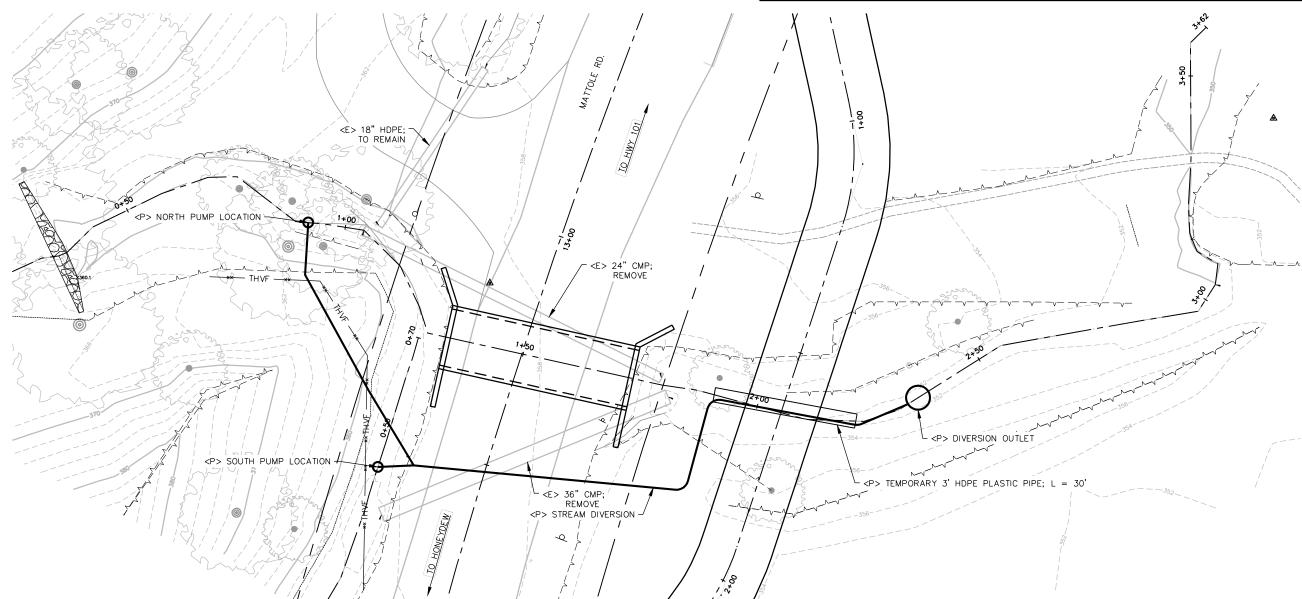
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

STORM DAMAGE REPAIR TO MATTOLE ROAD PM 16.15

SHEET **23**

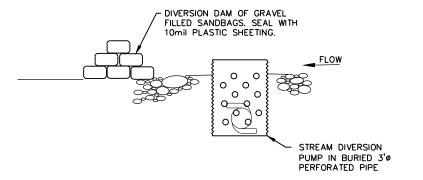
28

PM 16.15 STREAM DIVERSION PLAN AND DETAILS



STREAM DIVERSION PLAN

SCALE: 1"=10'



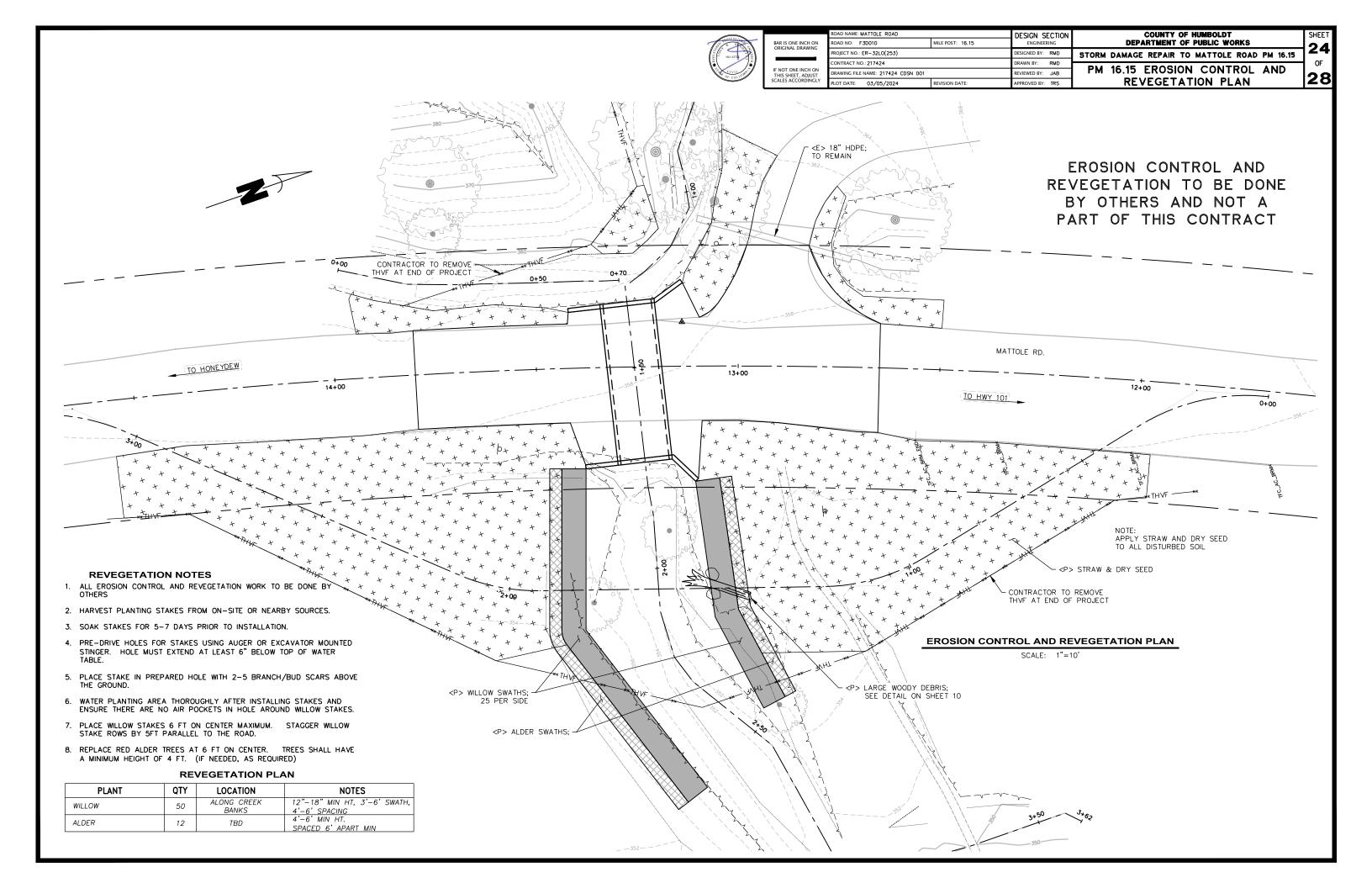
TYPICAL CREEK DIVERSION DETAIL

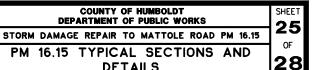
NOT TO SCALE

NOTES

- THE PUMP WILL RUN 24/7 AS NEEDED TO DIVERT STREAM FLOW THROUGH THE SITE USING A GAS GENERATOR OR SIMILAR DEVICE.
- 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.
- . DISCHARGE THE STREAM DIVERSION OUTLET DOWNSTREAM OF EXCAVATION LIMITS INTO A DISSIPATION/FILTER SYSTEM THAT MINIMIZES FROSION 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.







- <P> 2' SHOULDER; TYP.

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH O

OAD NAME: MATTOLE ROAD DESIGN SECTION MILE POST: 16.15 OAD NO: F3D010 OJECT NO.: ER-32L0(253) DRAWN BY: RMD NTRACT NO.: 217424 REVIEWED BY: JAB RAWING FILE NAME: 217424 CDSN 001 OT DATE: 03/05/2024

PM 16.15 TYPICAL SECTIONS AND **DETAILS**

PARAPETS 4. HMA AND AB TO EXTEND TO PARAPET AND WINGWALLS AT STA 13+09.00 THRU 13+42.00

NOTE: 1. SP = 2023 CALTRANS STANDARD

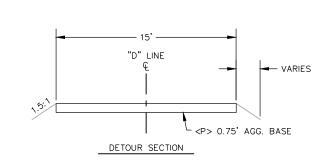
3. CAST-IN-PLACE WINGWALLS AND

2. PRECAST BOX CULVERT

PLANS

5. LANE SLOPES VARY 5.1. LEFT LANE VARIES BETWEEN -2% AND -4%

5.2. RIGHT LANE VARIES BETWEEN +2%



WIDTH VARIES

24.5' - 27'

<P> 0.25' HMA

VARIES

"M" LINE

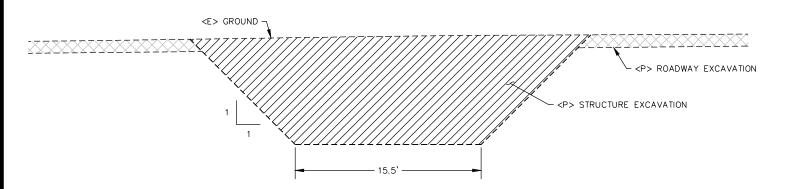
ROADWAY SECTION

VARIES

└ <P> 0.75' AGG. BASE

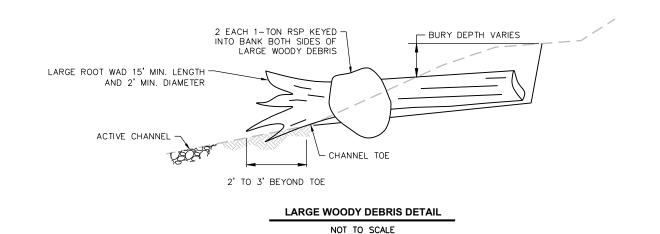
TYPICAL ROADWAY SECTIONS

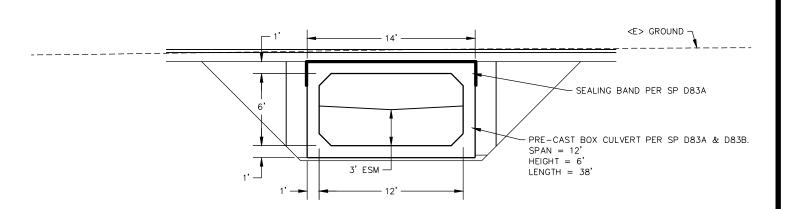
SCALE: 1"=4'



TYPICAL EXCAVATION SECTION

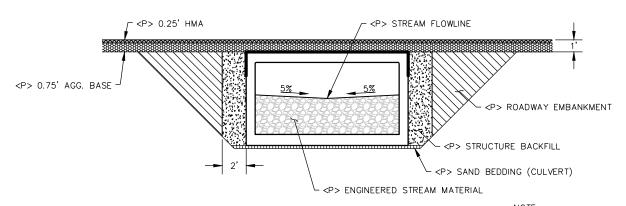
SCALE: 1"=4'





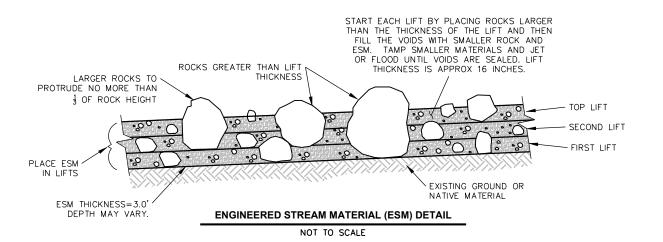
TYPICAL BOX CULVERT SECTION

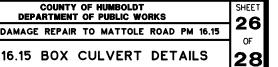
SCALE: 1"=4'



TYPICAL BACKFILL SECTION NOT TO SCALE

METHOD 1, 2 OR 3 BACKFILL PER SP A62G (METHOD 2 SHOWN)





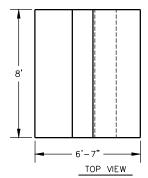
STORM DAMAGE REPAIR TO MATTOLE ROAD PM 16.15



	Ľ
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST	F
ORIGINAL DRAWING	F
	ď
THIS SHEET, ADJUST	[
SCALES ACCORDINGLY	Γ.

ROAD NAME: MATTOLE ROAD		DESIGN S	ECTIO
ROAD NO: F3D010	MILE POST: 16.15	ENGINEER	RING
PROJECT NO.: ER-32L0(253)		DESIGNED BY:	RMD
CONTRACT NO.: 217424		DRAWN BY:	RMD
DRAWING FILE NAME: 217424 CDSN 001		REVIEWED BY:	JAB
PLOT DATE: 03/05/2024	REVISION DATE:	APPROVED BY:	TRS

PM 16.15 BOX CULVERT DETAILS



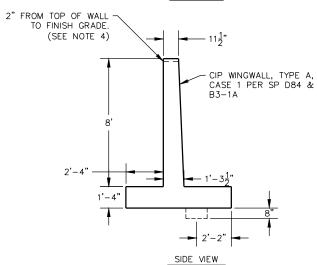
2. CIP = CAST-IN-PLACE

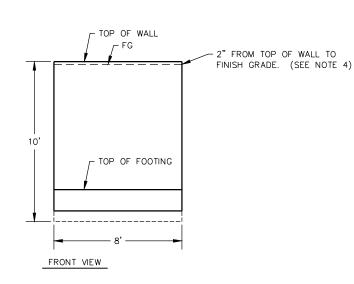
PLANS

3. CIP WINGWALLS AND PARAPETS

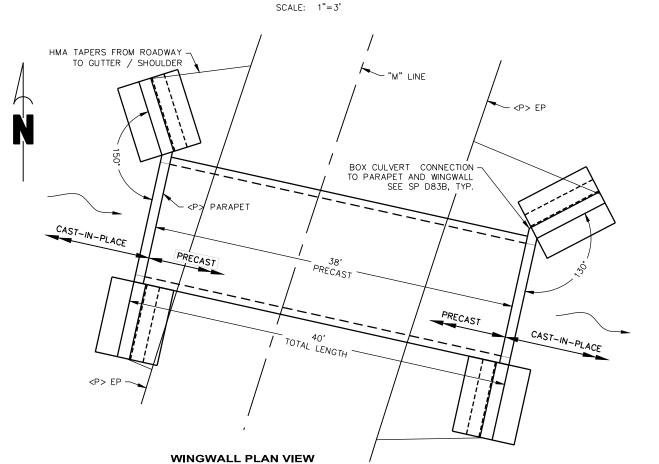
NOTES: 1. SP = 2023 CALTRANS STANDARD

- 4. HMA AND AB TO EXTEND TO PARAPET AND WINGWALLS AT STA 13+09.00 THRU 13+42.00
- 5. CONTRACTOR MAY SUBSTITUTE CIP BOX CULVERT WITH SIMILAR DIMENSIONS PER SP D80

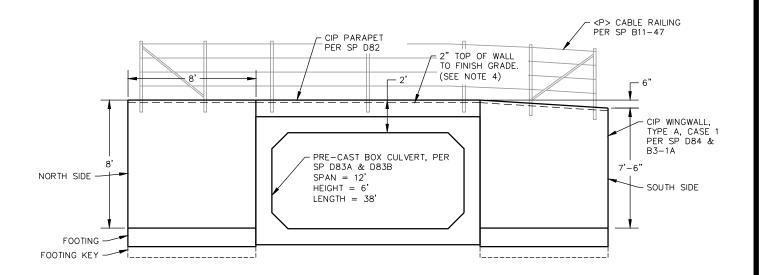




WINGWALL DETAILS: H = 8'

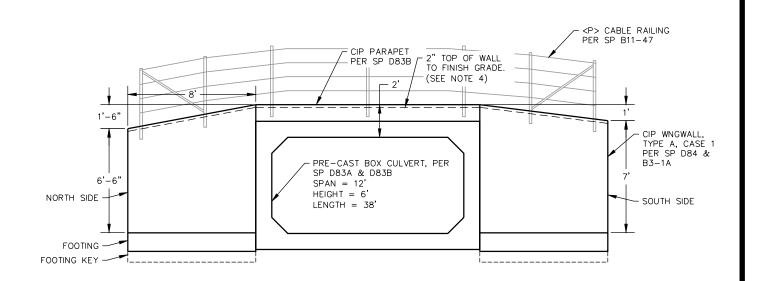


SCALE: 1"=5'



UPSTREAM WINGWALL PROJECTION

SCALE: 1"=3'



DOWNSTREAM WINGWALL PROJECTION

SCALE: 1"=3'

ROAD NAME: MATTOLE ROAD

ROAD NO: F3D010

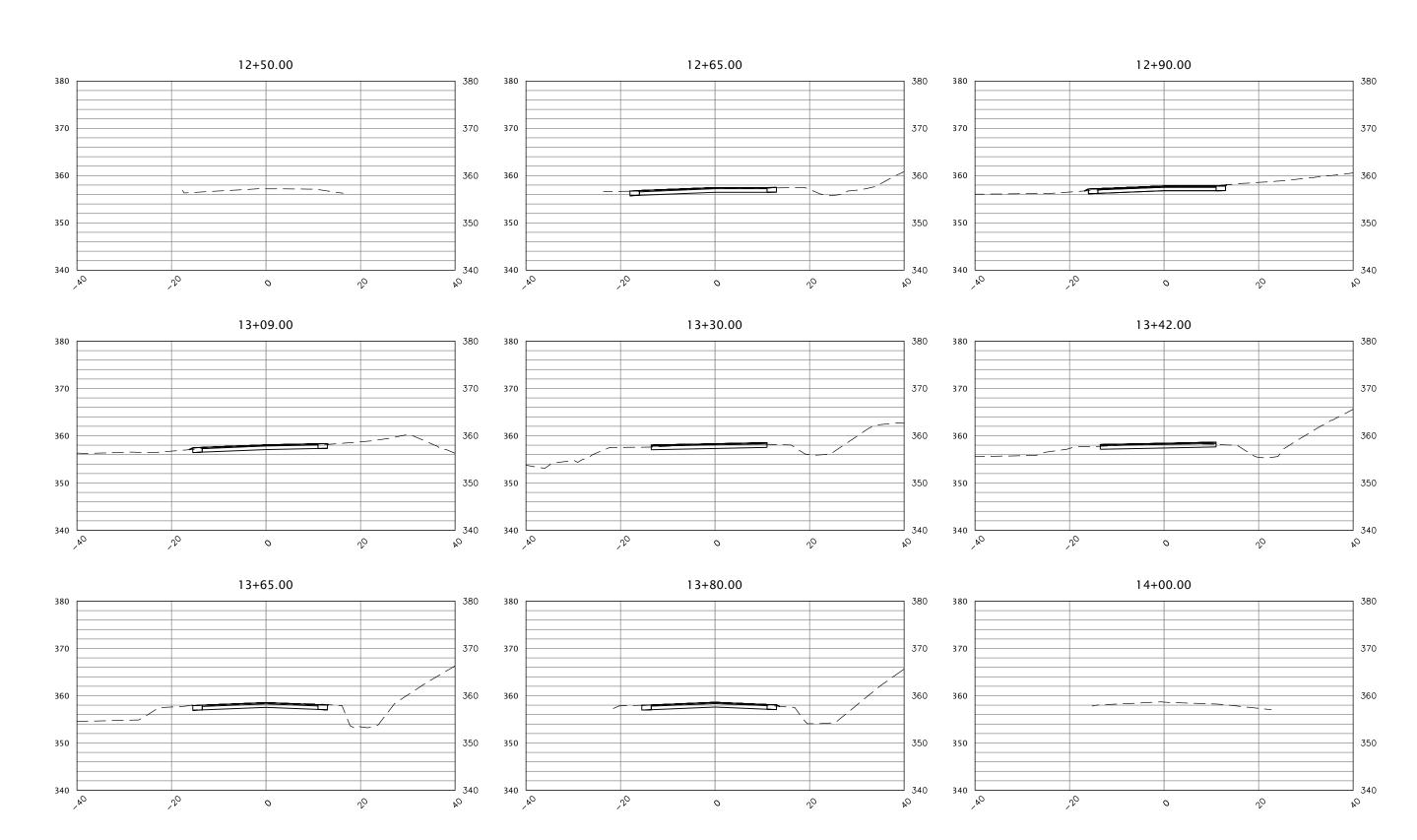
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

STORM DAMAGE REPAIR TO MATTOLE ROAD PM 16.15

PM 16.15 MATTOLE ROAD SECTIONS

27 or 28

SHEET





BAR IS ONE INCH ON ORIGINAL DRAWING P

IF NOT ONE INCH ON THIS SHEET, ADJUST COLUMN CO

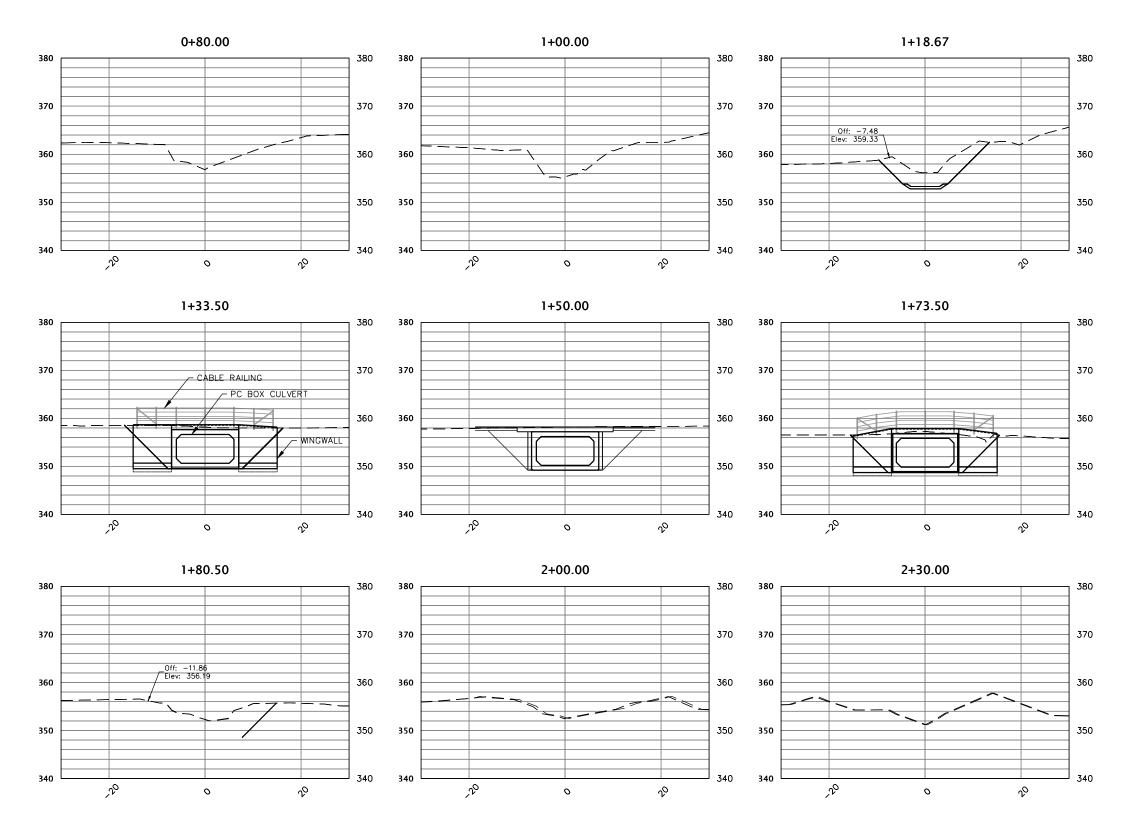
DAD NAME: MATTOLE ROAD	DESIGN SECTION		
OAD NO: F3D010	MILE POST: 16.15	ENGINEER	
ROJECT NO.: ER-32LO(253)		DESIGNED BY:	RMD
ONTRACT NO.: 217424		DRAWN BY:	RMD
RAWING FILE NAME: 217424 CDSN 001		REVIEWED BY:	JAB

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR TO MATTOLE ROAD PM 16.15

SHEET **28**

28

PM 16.15 STREAM CHANNEL SECTIONS



STREAM CHANNEL SECTIONS

SCALE: 1"=10' (H,V)