

INDEX OF SHEETS

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- 11 SIGNING AND STRIPING

RETAINING WALL PLANS

NOTES

12 - 19

- 1. THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.
- 2. STANDARD PLAN LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE SPECIAL PROVISIONS.
- 3. LATITUDE: 40.442121 LONGITUDE: -123.787326

GEOTECHNICAL REPORT

JUNE 2019 CRAWFORD & ASSOCIATES, INC.

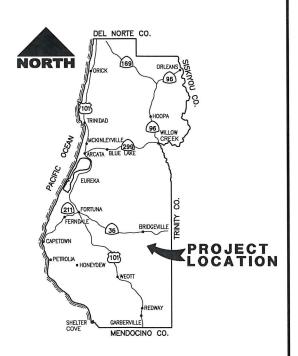


COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS PROJECT PLANS FOR CONSTRUCTION OF STORM DAMAGE REPAIR TO **ALDERPOINT ROAD [F6B165]** P.M. 44.79 PROJECT NO. ER 32LO (125) CONTRACT NO. 217231

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







SHEET

OF

19

LOCATION MAP NOT TO SCALE

TONY SEGHETTI, RCE 6371 COUNTY OF HUMBOLDT PUBLIC WORKS DEPUTY DIRECTOR

JASON HICKEY, SE 5783

12/17/20 DATE

- 1. CONTRACTOR MUST COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN
- 2. IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, CONTRACTOR SHALL REPLACE MONUMENT AT

ABBREVIATIONS:

NATIONAL GEODETIC SURVEY PERMANENT IDENTIFIER

LEGEND:

CONTROL POINT

DATUM:

- 1. COORDINATES FOR THIS SURVEY ARE CALIFORNIA 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
 51 WAS HELD FOR HORIZONTAL POSITIONS SHOWN
 HEREON. THE MAPPING ANGLE IS 1 DEGREE 10 MINUTES HEREON. THE MAPPING ANGLE IS 1 DEGREE 10 MINUTES 9"; 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 0.99985760 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR ARE TAKEN AT CONTROL POINT NUMBER 51, A 12 NORTH CONTROL POINT NUMBER 51, A 12 NORTH CONTROL POINT NUMBER 51, A 12 INCH SPIKE. ELEVATIONS ARE NAVD 88 DATUM BASED ON OPUS SOLUTION UTILIZING THE GEOID 12B MODEL: AN ELEVATION OF 1240.84 FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 51.
- 2. THE RIGHT OF WAY SHOWN IS BASED ON THE DEED RECORDED IN BOOK 523 OF OFFICIAL RECORDS, PAGE 82, FROM BARNWELL ET.AL. TO THE COUNTY OF HUMBOLDT. THIS RIGHT OF WAY VARIES IN WIDTH— SEE DOCUMENT FOR PARTICULARS. THE RIGHT OF WAY WAS PLACED UTILIZING PRIOR COUNTY PROJECT NO. ER-4400(55), CONTRACT NO. 206419 DATED 3/12/2013 BY LOCATING TWO COMMON CONTROL POINTS FROM THIS SURVEY AND THAT SHOWN ON SAID PLANS AS DIRECTED BY COUNTY OF HUMBOLDT.



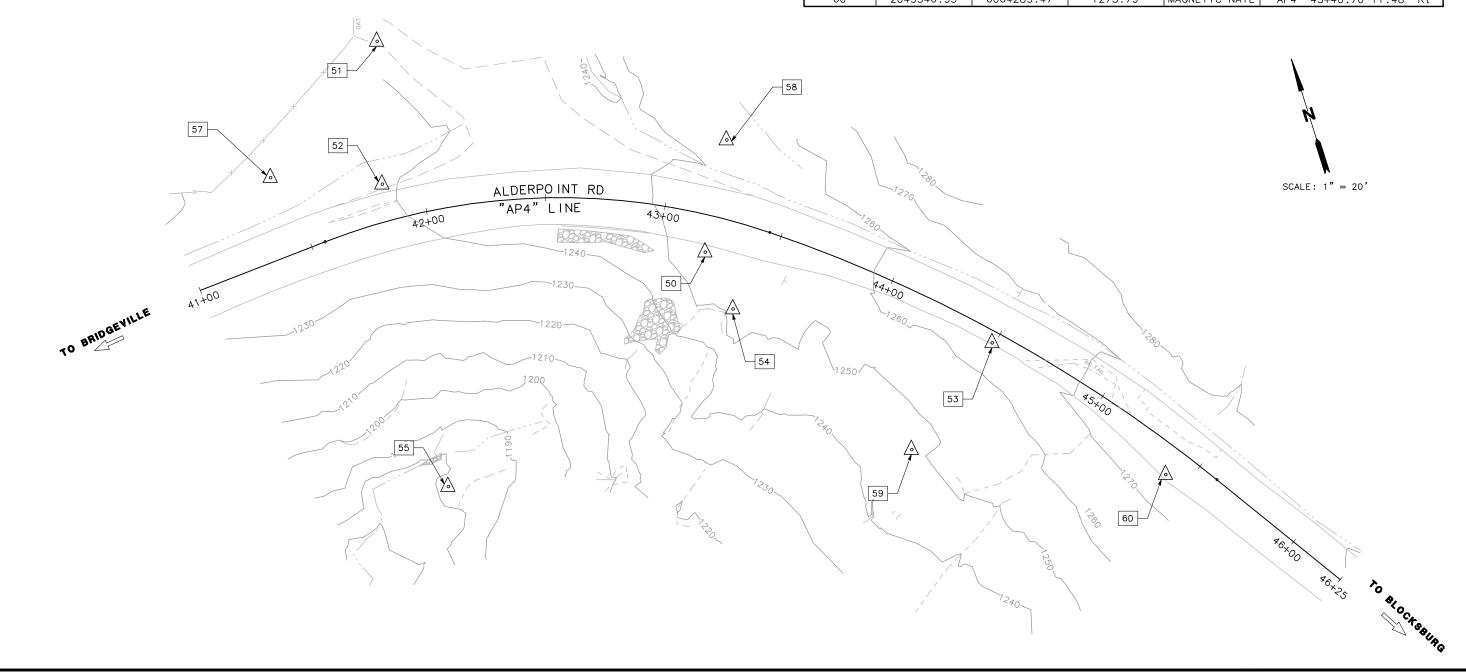
	ROAD NAME: ALDERPOINT ROAD		MARK MARK	COUNTY OF HUMBOLDT	
H ON	ROAD NO: F6B165	MILE POST: 44.79	THOMAS	DEPARTMENT OF PUBLIC WORKS	
	PROJECT NO.: ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY: EM	ALDERPOINT RD STORM DAMAGE (PM 4	
_	CONTRACT NO.: 217231	BRIDGE NO: N/A	DRAWN BY: EM		
H ON JUST	DRAWING FILE NAME:		REVIEWED BY: TL	PROJECT CONTROL	
INGLY	DLOT DATE: DECEMBER 2020	DEVISION DATE:	ADDROVED BY: EM	1 MODEO 1 DOMINOL	

ORM DAMAGE (PM 44.79) T CONTROL

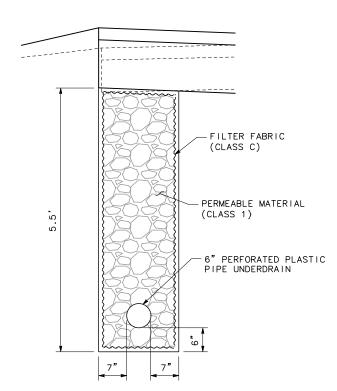
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	CO	NSTRUCTIO	N SURVEY	CONTROL E	DATA
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION/OFFSET
50	2049493.20	6064134.50	1252.34	SPIKE	"AP4" 43+20.77 15.43' Rt
51	2049618.20	6064030.62	1240.84	SPIKE	"AP4" 41+95.56 73.67' Lt
52	2049560.82	6064014.79	1239.51	SPIKE	"AP4" 41+85.13 15.39' Lt
53	2049421.10	6064237.12	1266.15	SPIKE	"AP4" 44+48.87 4.72' Rt
54	2049467.14	6064138.39	1251.35	SPIKE	"AP4" 43+40.17 35.07' Rt
55	2049432.40	6064002.97	1181.68	SPIKE	"AP4" 41+74.53 113.31' Rt
57	2049577.46	6063971.20	1237.92	DPW	"AP4" 41+44.31 33.12' Lt
58	2049535.01	6064157.15	1257.28	SPIKE	"AP4" 43+18.64 32.07' Lt
59	2049388.82	6064191.74	1249.26	SPIKE	"AP4" 44+39.88 59.76' Rt
60	2049346.93	6064289.47	1273.79	MAGNETIC NAIL	"AP4" 45+40.70 11.48' Rt



- 1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATION.
- 2. SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAM.
- 3. FOR CABLE RAILING DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, B11-47.
- 4. FOR UNDERDRAIN DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, D102.
- 5. FOR PLASTIC CULVERT EXCAVATION AND BACKFILL NOT SHOWN, SEE CALTRANS STANDARD PLANS, A62F.
- 6. FOR HMA DIKE DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, A87B AND A77N4.
- 7. FOR NARROW ROADWAY INSTALLATION OF MGS, SEE CALTRANS STANDARD PLAN, A77N3.





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

	ROAD NAME: ALDERPOINT ROAD		MARK MARK	Γ
N	ROAD NO: F6B165	MILE POST: 44.79	THOMAS	
	PROJECT NO.: ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY: EM	Γ
	CONTRACT NO.: 217231	BRIDGE NO: N/A	DRAWN BY: EM	
	DRAWING FILE NAME:		REVIEWED BY: TL	1
Y	PLOT DATE: DECEMBER 2020	REVISION DATE:	APPROVED BY: EM	

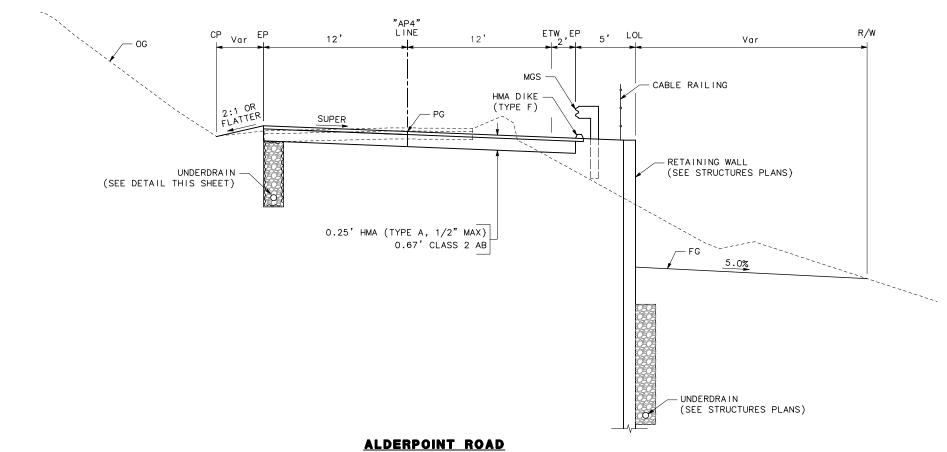
TYPICAL CROSS SECTIONS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

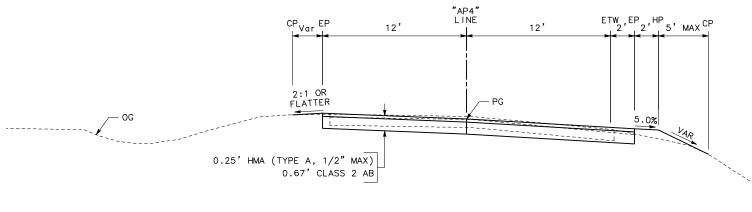
ALDERPOINT RD STORM DAMAGE (PM 44.79)

3

19



UNDERDRAIN DETAIL



ALDERPOINT ROAD

"AP4" 43+06.11 TO 45+47.14

"AP4" 41+50.00 TO 43+06.11
"AP4" 45+47.14 TO 46+00.00

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS DAD NAME: ALDERPOINT ROAD MARK THOMAS PROFESSIONA MILE POST: 44.79 OAD NO: F6B165 NOTES: PROJECT NO.: ER32L0(125) EA NO.: 0117000187L-N DESIGNED BY: EM ALDERPOINT RD STORM DAMAGE (PM 44.79) NTRACT NO.: 217231 BRIDGE NO: N/A DRAWN BY: EM 1. PROVIDE CONCRETE VEGETATION CONTROL UNDER MIDWEST EDUARD MUZYCHUK DRAWING FILE NAME: REVIEWED BY: TL GUARDRAIL SYSTEM, (MGS) AND ALTERNATIVE IN-LINE **LAYOUT** No. 90738 19 TERMINAL SYSTEM (AITS) PER CALTRANS STANDARD PLANS LOT DATE: DECEMBER 2020 REVISION DATE: APPROVED BY: EM *\ Exp. <u>12/31/21</u> A77N5, A77N5A & A77N6. CIVIL 2. FOR STEEL PIPE INLET DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLANS, D75A. **LEGEND:** - - - - - CUT LINE **CURVE TABLE** - - F- FILL LINE CURVE # RADIUS DELTA TANGENT LENGTH RETAINING WALL C1 40°09'17" 189.22' 270.00' 98.69' ■ MGS (MIDWEST GUARDRAIL SYSTEM) C2 610.00 20°05'29" 108.06 213.90' - ALTERNATIVE IN-LINE TERMINAL SYSTEM (AITS) C3 476.00' 5°45'34" 23.94' 47.85' APN:207-184-007 BARNWELL "AP4" +44.99 PCC +02.93 14.00' Rt AP SCALE: 1" = 20'ALDERPO INT RD 43+00 "APA" LINE 44+00 "AP4" +55.77 BC "AP4" +58.90 EC +50.00'
Beg NEW PAVEMENT AITS -+88.43 13398' Rt Beg HMA DIKE (TYPE F) EXIST EP OVERSIDE DRAIN -(SEE DRAINAGE PLAN) +01.87 (C3) Beg MGS "AP4" 41+00.00 N 2049541.55 RWLOL 1+00= +06.11 19.00 Rt Beg CABLE RAYLING Beg RETAINING WALL E 6063929.12 "AP4" <u>46+25.00</u> N 2049283.74 E 6064345.31 +00.00 14.00 Rt PCC AITS -RWLOL 3+31.53= +47.14 19.00' Rt END MGS END CABLE RAILING 60" CORRUGATED METAL PIPE EXIST EP END RETAINING WALL +78.37 14.00' Rt AP END HMA DIKE (TYPE F) END NEW PAVEMENT APN:207-184-003 BARNWELL

LEGEND:

(XXXX.XX) EXIST ELEVATION



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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
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ROAD NO:	F6B165	MILE POST: 44.79	= THO	MA
PROJECT NO.:	ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY:	Ем
CONTRACT NO.:	217231	BRIDGE NO: N/A	DRAWN BY:	Ем
DRAWING FILE	NAME:		REVIEWED BY:	TL
PLOT DATE:	DECEMBER 2020	REVISION DATE:	APPROVED BY:	ЕМ

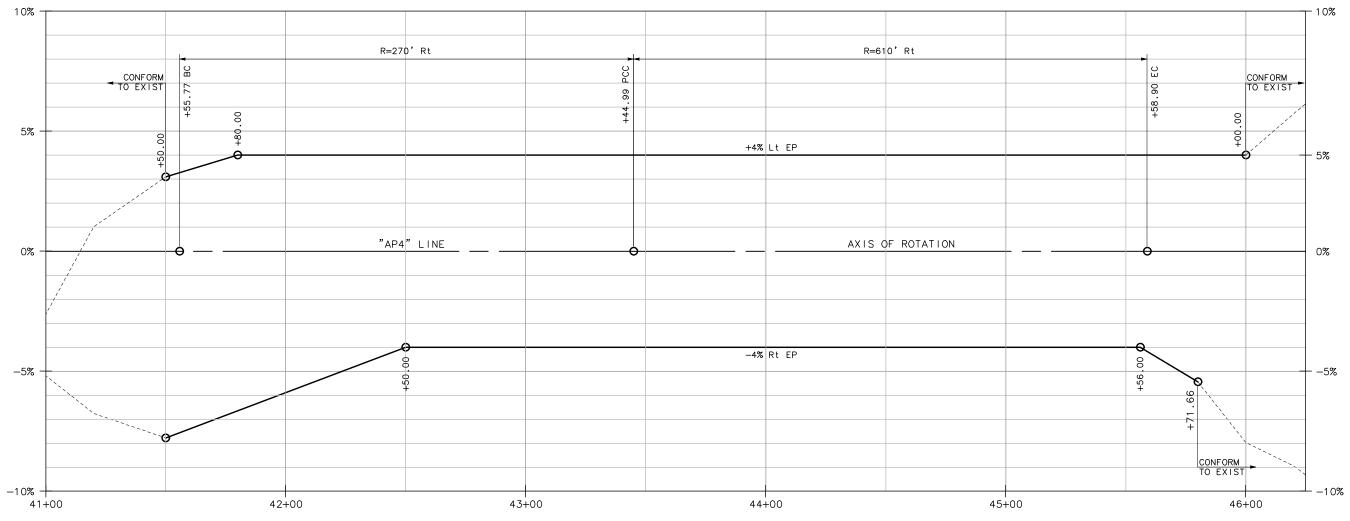
PROFILE AND SUPERELEVATION

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

ALDERPOINT RD STORM DAMAGE (PM 44.79)

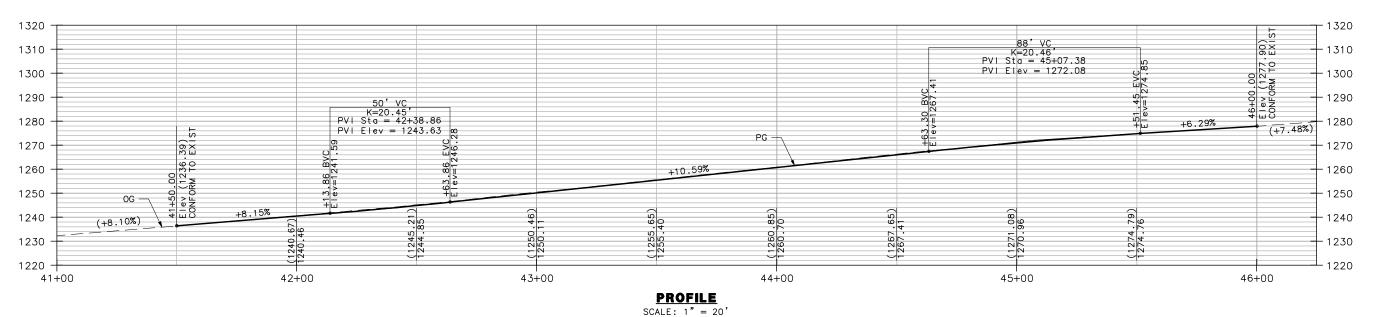
19





SUPERELEVATION DIAGRAM

SCALE: HORIZ 1" = 20'



COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS MARK THOMAS DAD NAME: ALDERPOINT ROAD MILE POST: 44.79 ROAD NO: F6B165 NOTES: PROJECT NO.: ER32L0(125) EA NO.: 0117000187L-N DESIGNED BY: EM ALDERPOINT RD STORM DAMAGE (PM 44.79) ONTRACT NO.: 217231 BRIDGE NO: N/A DRAWN BY: EM OF ALL CALLOUTS ON THIS SHEET REFENENCE THE "AP4" LINE UNLESS OTHERWISE NOTED. EDUARD MUZYCHUK No. 90738 Exp. 12/31/21 DRAWING FILE NAME: REVIEWED BY: TL **DRAINAGE PLAN** 19 LOT DATE: DECEMBER 2020 REVISION DATE: APPROVED BY: EM FOR UNDERDRAIN AND RISER DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN D102. CIVIL **LEGEND:** EXIST AT&T UNDERGROUND TELEPHONE LINE ---sd---- EXIST STORM DRAIN --- SD ---- STORM DRAIN ----- UNDERDRAIN **CAUTION:** OVERHEAD LINES SCALE: 1" = 20'6" UNDERDRAIN ALDERPO INT RD 43+00 "AP4" LINE +46.66 11.17' Lt END 6" UNDERDRAIN INSTALL RISER +91.59 17313' Rt TAPERED INLET Beg 12" CORRUGATED STEEL PIPE - REMOVE 42 LF SO PIPE INSTALL 54 LF R/W 12" CORRUGATED STEEL PIPE +91,73267.87 Rt 47,400 45° ELLBOW 6" UNDERDRAIN PROTECT 60" CORRUGATED METAL PIPE IN PLACE (SEE STRUCTURES SHEET) +88.87 69.98' Rt TAPERED NLET END 12" CORRUGATED STEEL PIPE ±47.06 19.83 Rt END 6" UNDERDRAIN INSTALL RISER +92.58 69.70 Rt END UNDERDRAIN

THIS PLAN ACCURATE FOR DRAINAGE AND UTILITY WORK ONLY

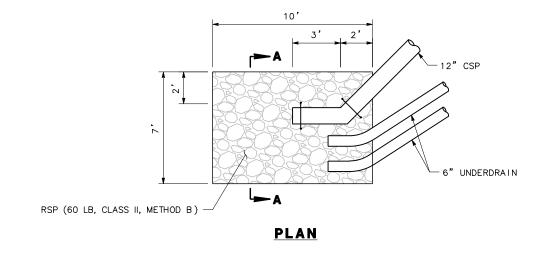
1. FOR ANCHOR ASSEMBLY DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN D87A, D87C.

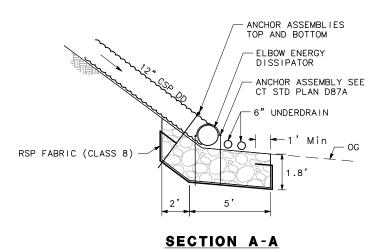


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	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
$\bigg)$	THIS SHEET, ADJUST

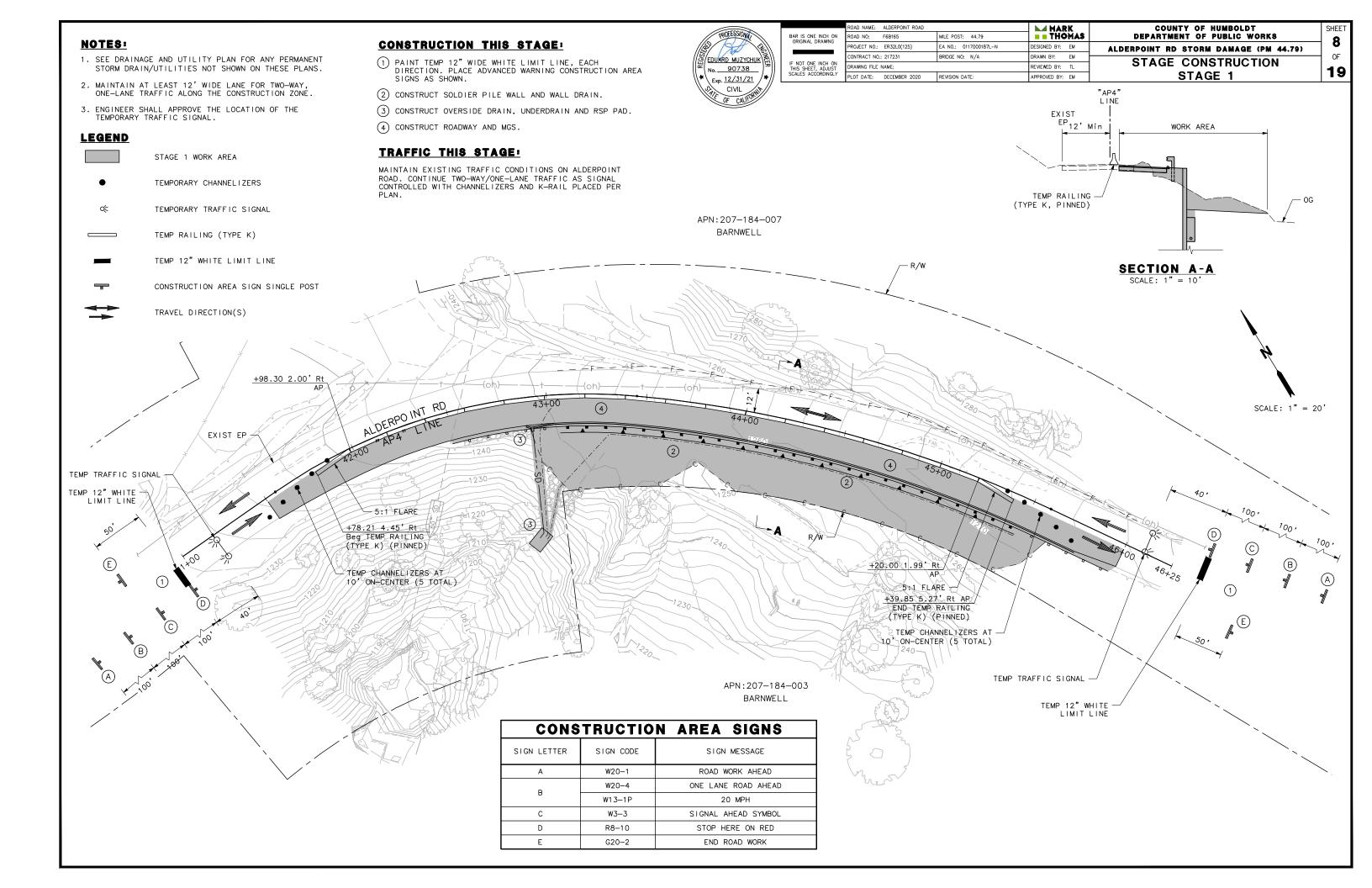
F	ROAD NAME: /	ALDERPOINT ROAD		MAR MAR		COUNTY OF HUMBOLDT
F	ROAD NO: F	F6B165	MILE POST: 44.79	= THO	MAS	DEPARTMENT OF PUBLIC WORKS
F	PROJECT NO.:	ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY:	ЕМ	ALDERPOINT RD STORM DAMAGE (PM 44.79)
	CONTRACT NO.:	217231	BRIDGE NO: N/A	DRAWN BY:	EM	
- 1	DRAWING FILE N	AME:		REVIEWED BY:	TL	DRAINAGE DETAILS
F	PLOT DATE:	DECEMBER 2020	REVISION DATE:	APPROVED BY:	Ем	DITINITIES DE l'AIEO

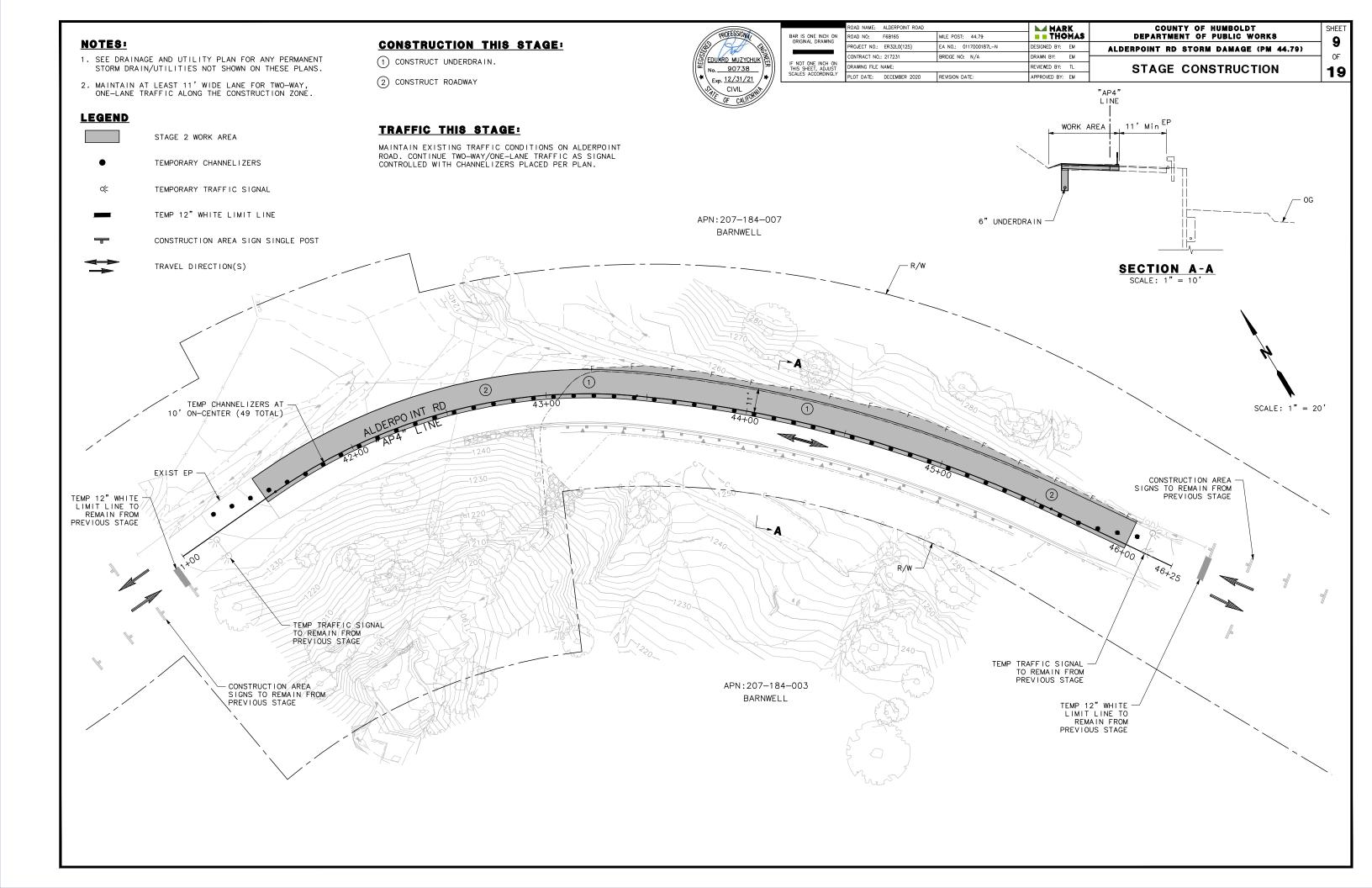
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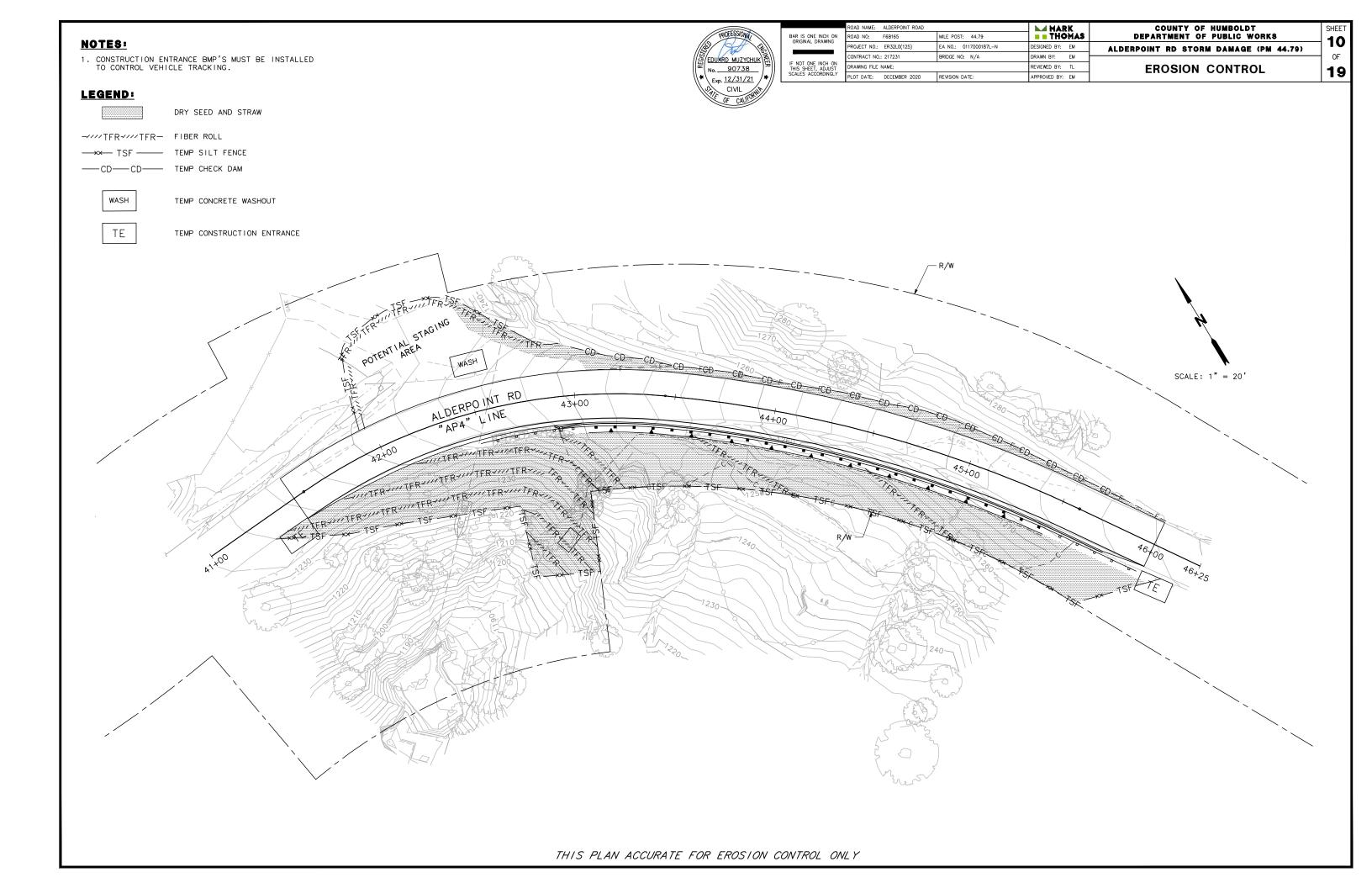




ELBOW ENERGY DISSIPATOR & ROCK SLOPE PROTECTION (RSP)







CA MUTCD CODES SHOWN AS DESIGNATED BY <CA> WHICH INDICATED A CALIFORNIA SIGN CODE. OTHERWISE, FEDERAL MUTCD CODES ARE SHOWN.

No. 90738 Exp. 12/31/21

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

	ROAD NAME: ALDERPOINT ROAD		MARK MARK	Г
ON G	ROAD NO: F6B165	MILE POST: 44.79	THOMAS	
	PROJECT NO.: ER32LO(125)	EA NO.: 0117000187L-N	DESIGNED BY: EM	Γ
•	CONTRACT NO.: 217231	BRIDGE NO: N/A	DRAWN BY: EM	┝
ON ST	DRAWING FILE NAME:		REVIEWED BY: TL	1
GLY	PLOT DATE: DECEMBER 2020	REVISION DATE:	APPROVED BY: EM	

ALDERPOINT RD STORM DAMAGE (PM 44.79) SIGNING AND STRIPING

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

11

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LEGEND:

REMOVE ROADSIDE SIGN

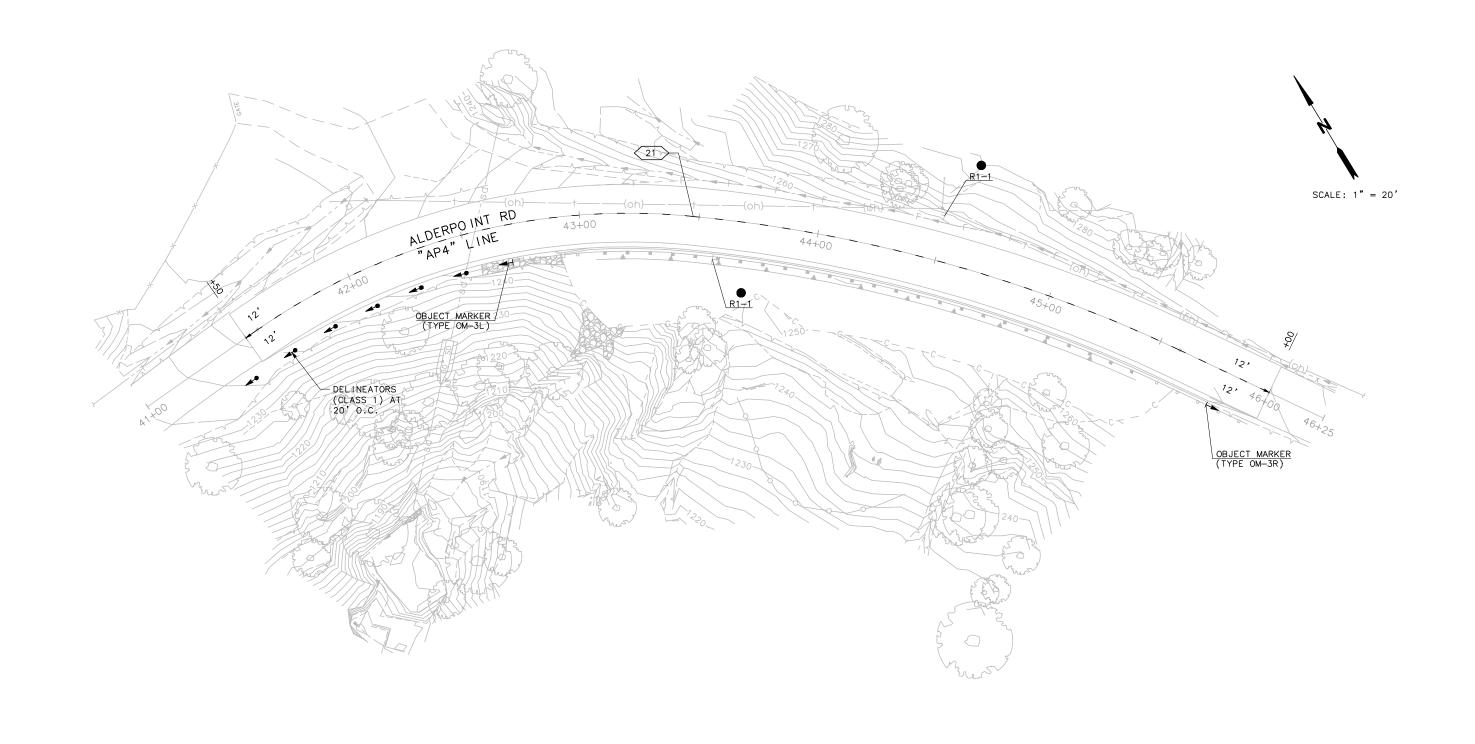
(No.)

PAVEMENT DELINEATION DETAIL

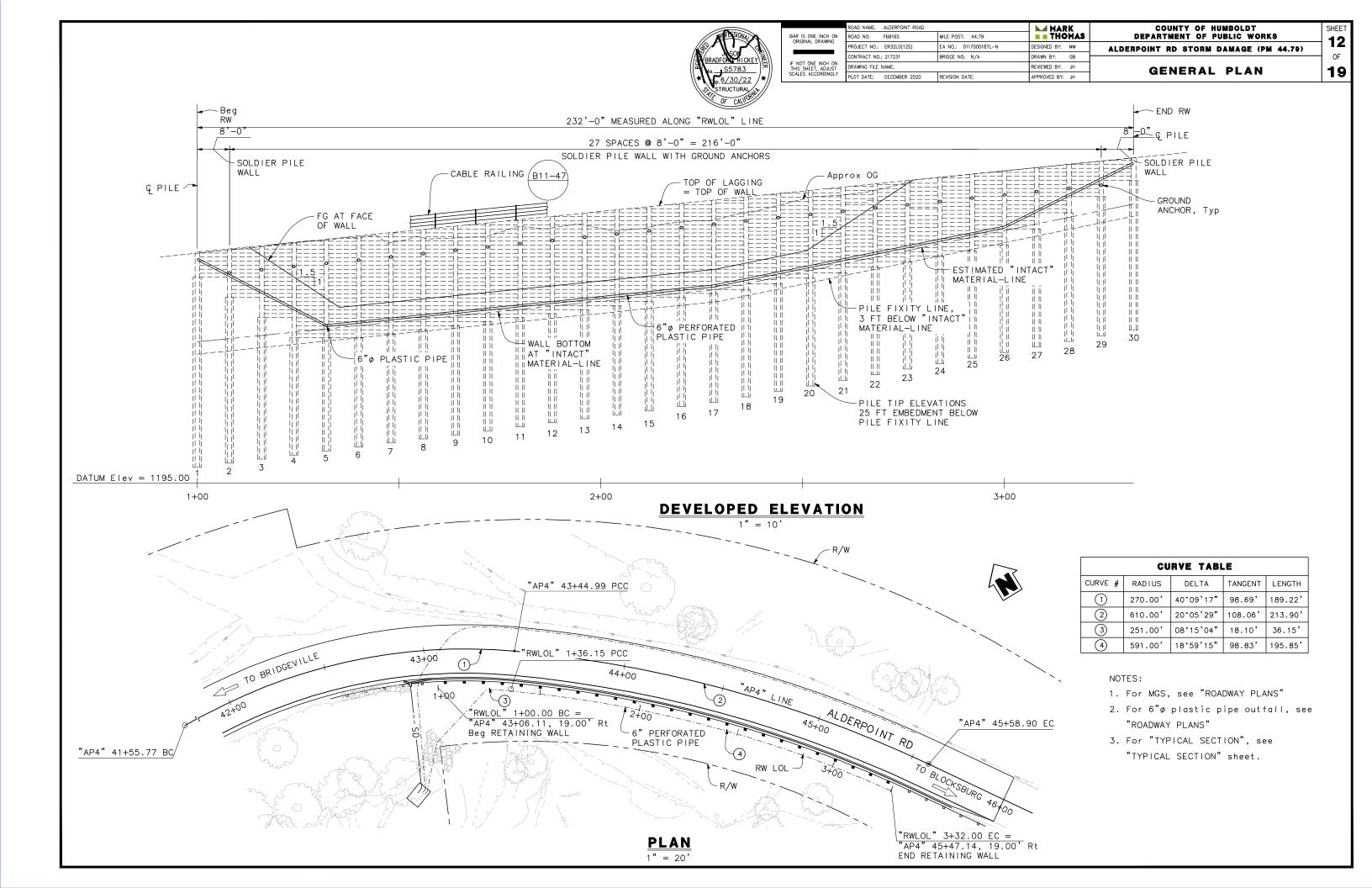
EXIST ROADSIDE SIGN

OBJECT MARKER

DELINEATOR



THIS PLAN ACCURATE FOR SIGNING AND STRIPING ONLY



INDEX TO PLANS

SHEET NO.	<u>TITLE</u>
12 13 14 15 16 17 18	GENERAL PLAN INDEX TO PLANS FOUNDATION PLAN TYPICAL SECTION SOLDIER PILE WALL LAGGING DETAILS SOLDIER PILE WALL DETAILS NO. 1 SOLDIER PILE WALL DETAILS NO. 2 SUB HORIZONTAL GROUND ANCHOR DETAILS

STANDARD PLANS DATED 2018

A3A A3B	ABBREVIATIONS (SHEET 1 OF 3) ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE
	AND WALL
B11-47	CABLE RAILING



QUANTITIES

STRUCTURE EXCAVATION (SOLDIER PILE WALL) STRUCTURE BACKFILL (SOLDIER PILE WALL)	345 54	
CONCRETE BACKFILL (SOLDIER PILE WALL)	108	CY
LEAN CONCRETE BACKFILL	54	CY
GROUND ANCHOR (SUBHORIZONTAL)	28	EA
STEEL SOLDIER PILE (W 12 X 72)	1,440	LF
24" DRILLED HOLE	1,390	LF
TIMBER LAGGING	25.1	MFBM
CLEAN AND PAINT STEEL SOLDIER PILING	1	LS
6" PERFORATED PLASTIC PIPE UNDERDRAIN	210	LF
6" NON-PERFORATED PLASTIC PIPE UNDERDRAIN	32	LF
CLASS 1 PERMEABLE MATERIAL	115	CY
CABLE RAILING	232	LF



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	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
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	ROAD NAME:	ALDERPOINT ROAD		MARK MARK	Т
v	ROAD NO:	F6B165	MILE POST: 44.79	THOMAS	;
	PROJECT NO.:	ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY: MM	Т
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Y	PLOT DATE:	DECEMBER 2020	REVISION DATE:	APPROVED BY: JH	

ALDERPOINT RD STORM DAMAGE (PM 44.79)

INDEX TO PLAN

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS

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GENERAL NOTES

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments.

LIVE LOAD: 240 psf equivalent to 2 feet soil weight.

SOIL PARAMETERS: (For determination of Design Lateral Earth Pressures)

Backfill soil weight = 135 lb/ft 3 Friction Angle = $34 \cdot$ Active Pressure coefficent, Ka = 0.283

SEISMIC

PARAMETERS:

Active (seismic) pressure coefficient. $k_e = \frac{0.067}{1}$

STEEL SOLDIER PILES:

ASTM A572/A, ASTM 572M Grade 50 Min, or ASTM A992

STRUCTURAL Treated TIMBER: Douglas Douglas Fir, Grade No. 1 or better Timber to be full sawn.

PRESTRESSING STEEL (GROUND ANCHORS):

> Bars - ASTM Designation: A722 Type II (150 ksi) Strand Tendons - ASTM Designation: A416 (270 ksi

Low relaxation steel)

T = Design force on ground anchor (kips)

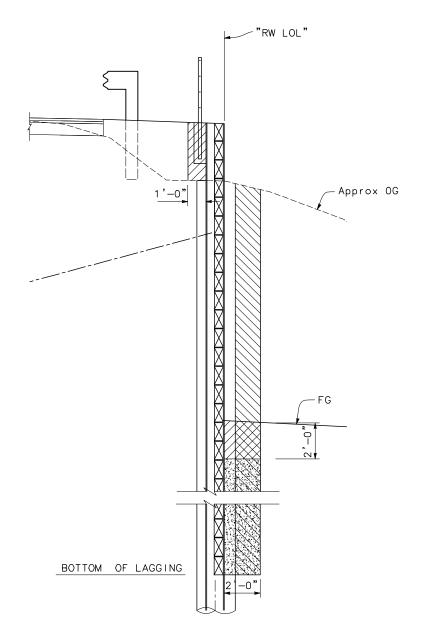
fpu = Minimum ultimate tesile strength of ground anchor steel

As (Min) = Minimum cross sectional area of steel in ground anchor. (sq. in)

As (Min) = 1.0T (STRANDS)0.75 fpu

1. For limits of payments for roadway excavation, see "ROADWAY PLANS"

As $(Min) = \frac{1.0T}{0.80 \text{ fpu}} (BARS)$

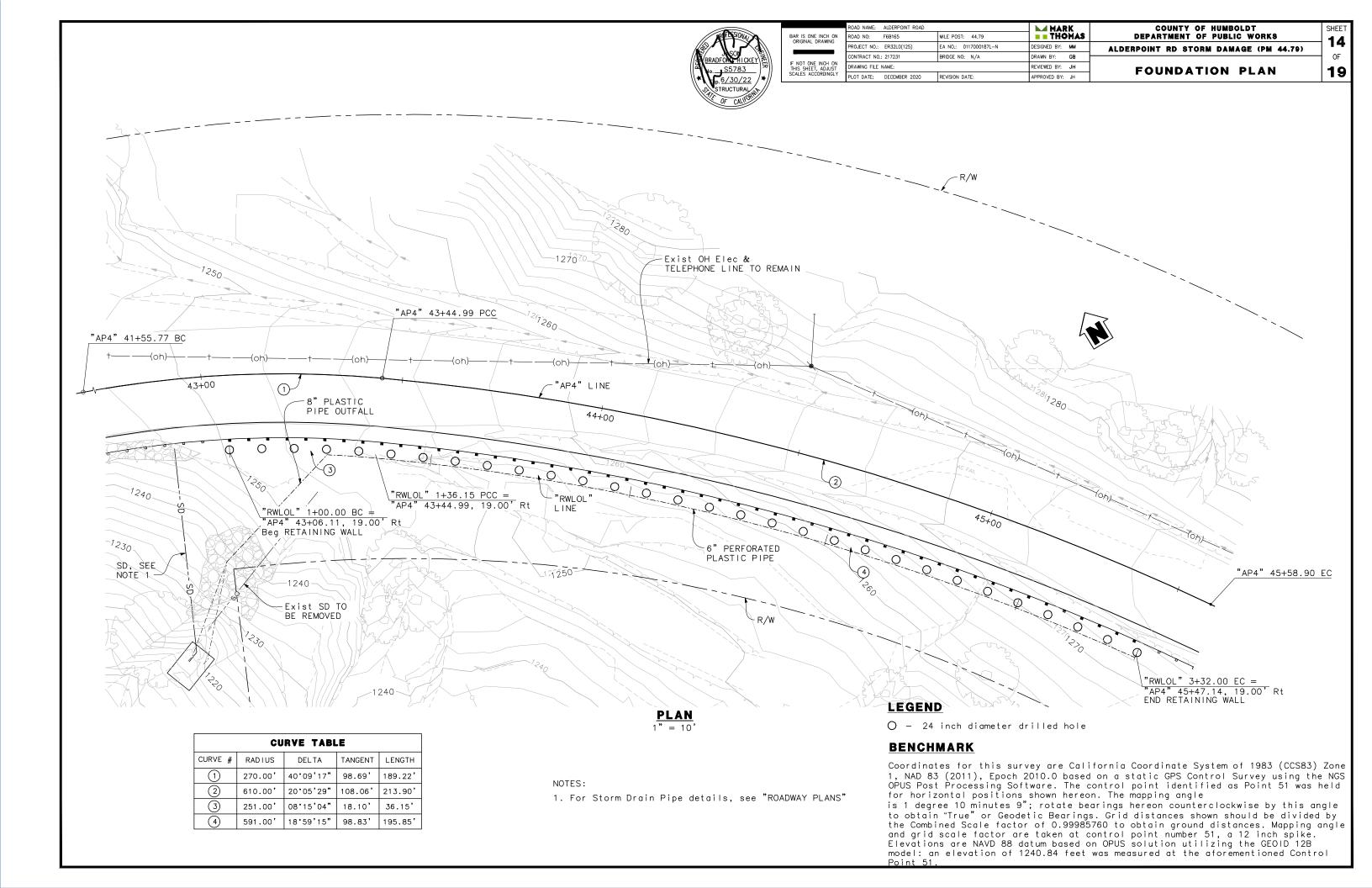


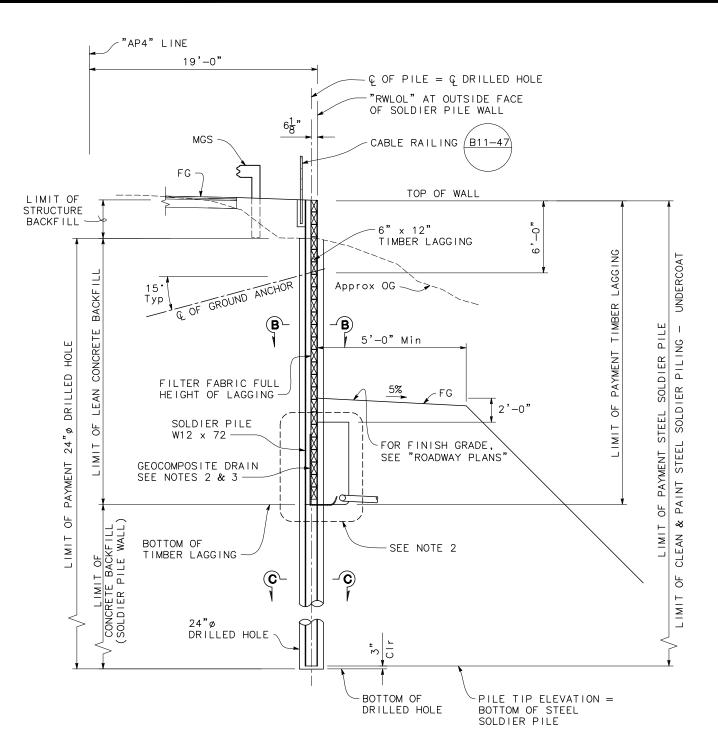
STRUCTURE BACKFILL AND EXCAVATION

Indicates Structure Excavation, Soldier Pile Wall

Indicates Structure Backfill, Soldier Pile Wall

Indicates Permeable Material Class 1





TYPICAL SECTION - GROUND ANCHOR WALL 1/4" = 1'-0"

NOTES:

- 1. For "SECTION B-B" and "SECTION C-C", see "SOLDIER PILE WALL LAGGING DETAILS" sheet.
- For "WALL DRAIN DETAIL", see "SOLDIER PILE WALL DETAILS No. 2" sheet.
- 3. Continue geocomposite drain under timber lagging into permeable material



	ROAD NAME:	ME: ALDERPOINT ROAD			łK
R IS ONE INCH ON RIGINAL DRAWING	ROAD NO:	F6B165	MILE POST: 44.79	= THO	MA
	PROJECT NO.:	ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY:	ММ
NOT ONE INCH ON IS SHEET, ADJUST ALES ACCORDINGLY	CONTRACT NO.	: 217231	BRIDGE NO: N/A	DRAWN BY:	GB
	DRAWING FILE NAME:			REVIEWED BY:	JH
	PLOT DATE:	DECEMBER 2020	REVISION DATE:	APPROVED BY:	JH

1AR THO	K MAS	COUNTY OF HUMBOLDT Department of Public Works	SHEET 15
BY:	ММ	ALDERPOINT RD STORM DAMAGE (PM 44.79)	
Y:	GB		OF
BY:	JH	TYPICAL SECTION	40
BY:	JH	1	13

PILE AND GROUND ANCHOR DATA TABLE							
		TOD OF WALL	воттом оғ	PILE TIP GROUND A		ANCHORS	
PILE "RWLOL" LINE NUMBER STATION		ELEVATION	LAGGING ELEVATION	ELEVATION	Т	UNBONDED LENGTH	
		(ft)	(ft)	(ft)	(kips)	(ft)	
1	1+00.00	1250.10	1246.0	1199.0	N/A	N/A	
2	1+08.00	1250.98	1241.0	1200.0	100	25.0	
3	1+16.00	1251.85	1236.0	1201.0	125	30.0	
4	1+24.00	1252.73	1231.0	1202.0	150	35.0	
5	1+32.00	1253.60	1231.0	1203.0	150	35.0	
6	1+40.00	1254.48	1232.0	1204.0	150	35.0	
7	1+48.00	1255.35	1233.0	1205.0	150	35.0	
8	1+56.00	1256.23	1234.0	1206.0	150	35.0	
9	1+64.00	1257.10	1235.0	1207.0	150	35.0	
10	1+72.00	1257.97	1236.0	1208.0	150	35.0	
11	1+80.00	1258.85	1237.0	1209.0	150	35.0	
12	1+88.00	1259.72	1238.0	1210.0	150	35.0	
13	1+96.00	1260.60	1239.0	1211.0	150	35.0	
14	2+04.00	1261.47	1240.0	1212.0	150	35.0	
15	2+12.00	1262.35	1241.0	1213.0	150	35.0	
16	2+20.00	1263.22	1242.0	1214.0	150	35.0	
17	2+28.00	1264.10	1243.0	1215.0	150	35.0	
18	2+36.00	1264.97	1244.4	1216.4	145	34.0	
19	2+44.00	1265.85	1245.8	1217.8	140	33.0	
20	2+52.00	1266.73	1247.1	1219.1	135	32.0	
21	2+60.00	1267.59	1248.5	1220.5	130	31.0	
22	2+68.00	1268.41	1249.9	1221.9	125	30.0	
23	2+76.00	1269.20	1251.3	1223.3	120	29.0	
24	2+84.00	1269.95	1252.6	1224.6	115	28.0	
25	2+92.00	1270.67	1254.0	1226.0	110	27.0	
26	3+00.00	1271.36	1258.0	1227.4	105	26.0	
27	3+08.00	1272.02	1262.0	1228.8	100	25.0	
28	3+16.00	1272.64	1266.0	1230.1	95	24.0	
29	3+24.00	1273.23	1270.0	1231.5	90	23.0	
30	3+32.00	1273.78	N.A	1232.9	N/A	N/A	

NOTE:

 Bottom of lagging indicates adjacent down station lagging elevation



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

ROAD NAME: ALDERPOINT ROAD		MARK	COUNTY OF HUMBOLDT
ROAD NO: F6B165	MILE POST: 44.79	= THOMAS	DEPARTMENT OF PUBLIC WORKS
PROJECT NO.: ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY: MM	ALDERPOINT RD STORM DAMAGE (PM 44.79)
CONTRACT NO.: 217231	BRIDGE NO: N/A	DRAWN BY: GB	
DRAWING FILE NAME:		REVIEWED BY: JH	SOLDIER PILE WALL LAGGING DETAILS
DUAT DATE DESCRIPTO COOC	DELECION DATE	ADDDOUED DV III	

16 19

OF

SAME WIDTH AS LAGGING THICKNESS

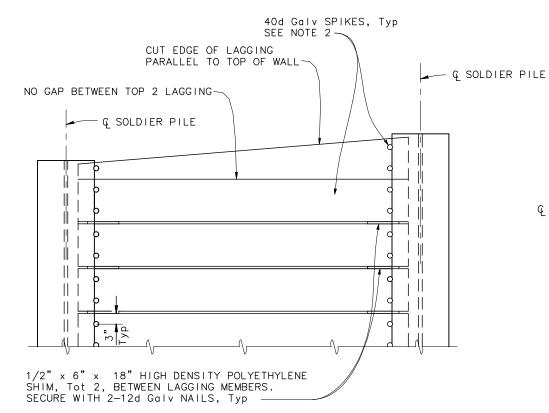
1/8"ø x 3 1/4",

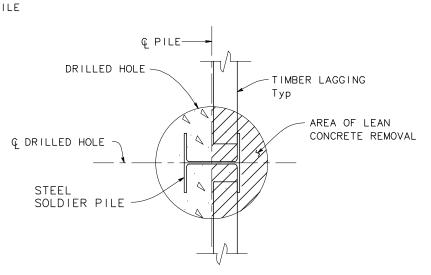
HIGH DENSITY POLYETHYLENE

SHIM DETAIL

NO SCALE

COMMON NAIL (Galv)





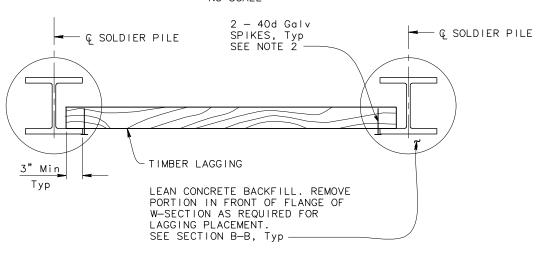
SECTION B-B

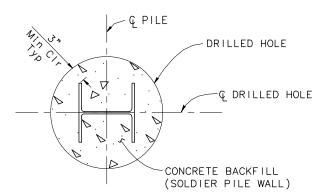
NO SCALE



PART ELEVATION

NO SCALE

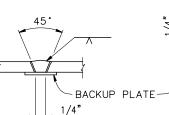


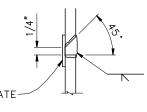


SECTION C-C

NO SCALE

BACKUP PLATE





SQUARE GROOVE

SINGLE VEE-GROOVE

SINGLE BEVEL-GROOVE

PILE WELDING DETAIL-BUTT JOINTS NO SCALE

NOTES:

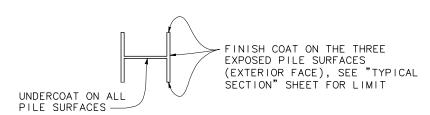
- 1. Single vee-groove and square groove permitted for all positions.
- 2. Single bevel-groove permitted for horizonal joints only.

PART PLAN OF TIMBER LAGGING MEMBER

NO SCALE

NOTES:

- No clipping of timber lagging corners allowed. Lagging corners may be chamfered to facilitate placement. Max 2 corner per lagging
- 2. Spikes shall not be bent



LIMITS OF CLEAN & PAINT STEEL SOLDIER PILES

NO SCALE



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

	ROAD NAME: ALDERPOINT ROAD		MARK	COUNTY OF HUMBOLDT
ON NG	ROAD NO: F6B165	MILE POST: 44.79	THOMAS	DEPARTMENT OF PUBLIC WORKS
	PROJECT NO.: ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY: MM	ALDERPOINT RD STORM DAMAGE (PM 44.79)
I ON UST	CONTRACT NO.: 217231	BRIDGE NO: N/A	DRAWN BY: GB	
	DRAWING FILE NAME:		REVIEWED BY: JH	SOLDIER PILE WALL DETAILS NO. 1
	PLOT DATE: DECEMBER 2020	REVISION DATE:	APPROVED BY: JH	

17 or 19

8"ø EXTRA
STRONG (X-STRONG) PIPE

Typ

SOLDIER PILE

BEARING PLATE

ANCHOR HEAD ASSEMBLY

GROUND ANCHOR

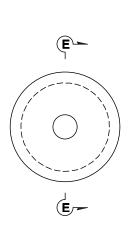
Typ BOTH ENDS

OF 8"ø PIPE

P 1½ x 11 x 1'-6"

ELEVATION - SOLDIER PILE WITH SHGA THRU WEB NO SCALE

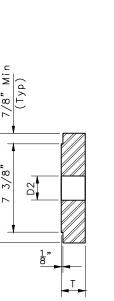
~D)



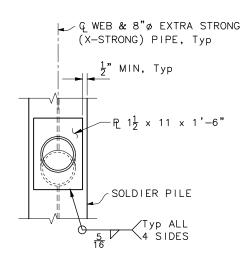
BEARING PLATE

NO SCALE

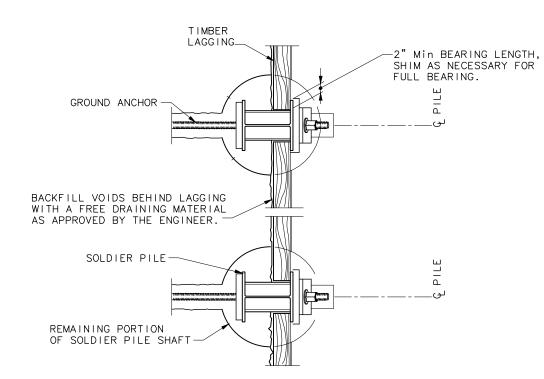
BEARING PLATE SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH THE STANDARD SPECIFICATION SECTION 50-1.01C.







SECTION D-D



PLAN - SOLDIER PILE WALL

NO SCALE

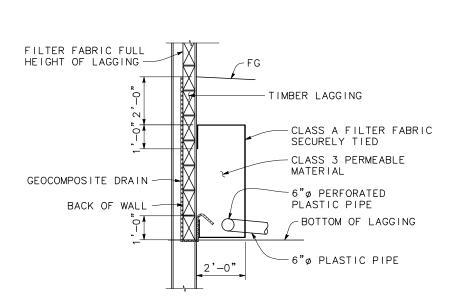


BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST
SCALES ACCORDINGLY

=	ROAD NAME: ALDERPOINT ROAD		MAF	₹K	COUNTY OF HUMBOLDT	
- 1	ROAD NO: F6B165	MILE POST: 44.79	= THO	MAS	DEPARTMENT OF PUBLIC WORKS	
- 1	PROJECT NO.: ER32L0(125)	EA NO.: 0117000187L-N	DESIGNED BY:	мм	ALDERPOINT RD STORM DAMAGE (PM 44.79)	
- 1	CONTRACT NO.: 217231	BRIDGE NO: N/A	DRAWN BY:	GB		•
- 1	DRAWING FILE NAME:		REVIEWED BY:	JH	SOLDIER PILE WALL DETAILS NO. 2	
- 1	DLOT DATE. DECEMBER 2020	DEVICIONI DATE	ADDROVED BY	ILL		

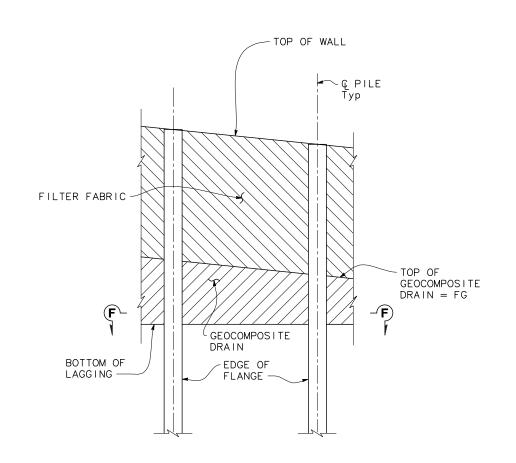
1. Geocomposite drain strip per Section 88
Geosynthetics of the Standard Specifications

18 or 19



WALL DRAIN DETAIL

NO SCALE



PART ELEVATION DRAIN AT SOLDIER PILE WALL

NO SCALE

