

**FUNDING SOURCE**

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



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

- APN ASSESSORS PARCEL NUMBER
- CL CENTERLINE
- CT CALTRANS
- (E) EXISTING
- EL ELEVATION
- K K-VALUE
- PVI POINT OF VERTICAL CURVATURE
- S SLOPE

ELK CREEK ROAD PM 2.00  
LAT: 40.295468°  
LONG: -123.832062°

ELK CREEK ROAD PM 1.90  
LAT: 40.294608°  
LONG: -123.833152°

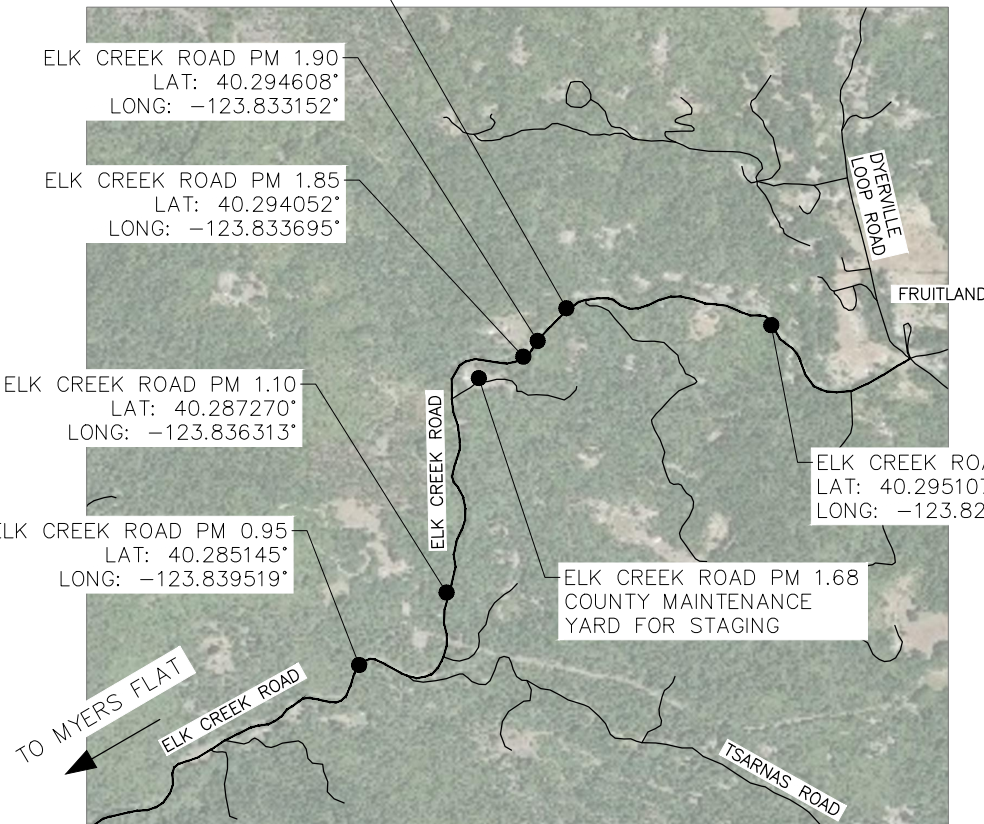
ELK CREEK ROAD PM 1.85  
LAT: 40.294052°  
LONG: -123.833695°

ELK CREEK ROAD PM 1.10  
LAT: 40.287270°  
LONG: -123.836313°

ELK CREEK ROAD PM 0.95  
LAT: 40.285145°  
LONG: -123.839519°

ELK CREEK ROAD PM 2.42  
LAT: 40.295107°  
LONG: -123.824399°

ELK CREEK ROAD PM 1.68  
COUNTY MAINTENANCE  
YARD FOR STAGING



**VICINITY MAP**  
NOT TO SCALE



**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, SEPTEMBER 10, 2020.

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BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: C6D060	DESIGNED BY: C. HAYES
	MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
	PROJECT NO.: ER-32L0(237)	REVIEWED BY: J. SVEHLA
	CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
	PLOT DATE: 05/20/2022	

<b>COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS</b>
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>TITLE SHEET</b>

SHEET 1 OF 55

**COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
PROJECT PLANS FOR CONSTRUCTION OF  
STORM DAMAGE REPAIRS  
ELK CREEK ROAD (C6D060) AT P.M. 0.95 - 2.42  
PROJECT NO. ER-32L0(237)  
CONTRACT NO. 217236**

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



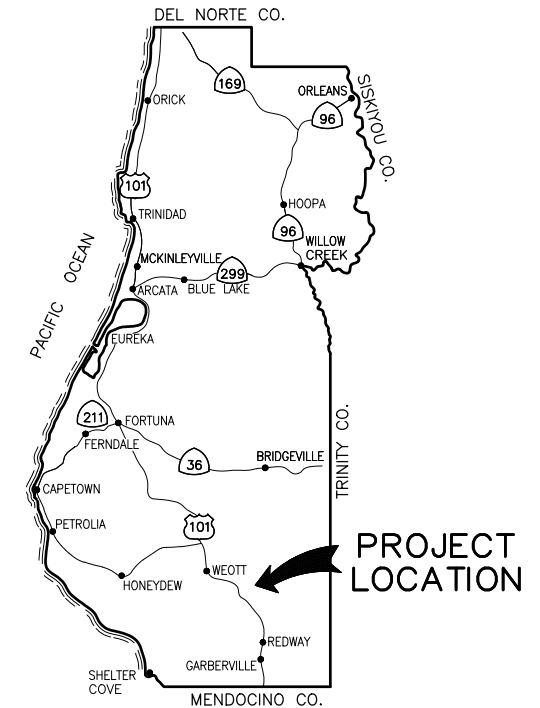
**RECOMMENDED**

*Jeremy Shane Svehla*  
JEREMY SHANE SVEHLA  
RCE C72169  
CIVIL ENGINEER  
GHD, INC.  
5/20/2022  
DATE



**APPROVED**

*Tony R. Seghetti*  
TONY R. SEGHETTI  
RCE 63714  
DEPUTY DIRECTOR OF ENGINEERING  
COUNTY OF HUMBOLDT  
5/26/2022  
DATE



**LOCATION MAP**  
NOT TO SCALE



**SHEET LIST TABLE**

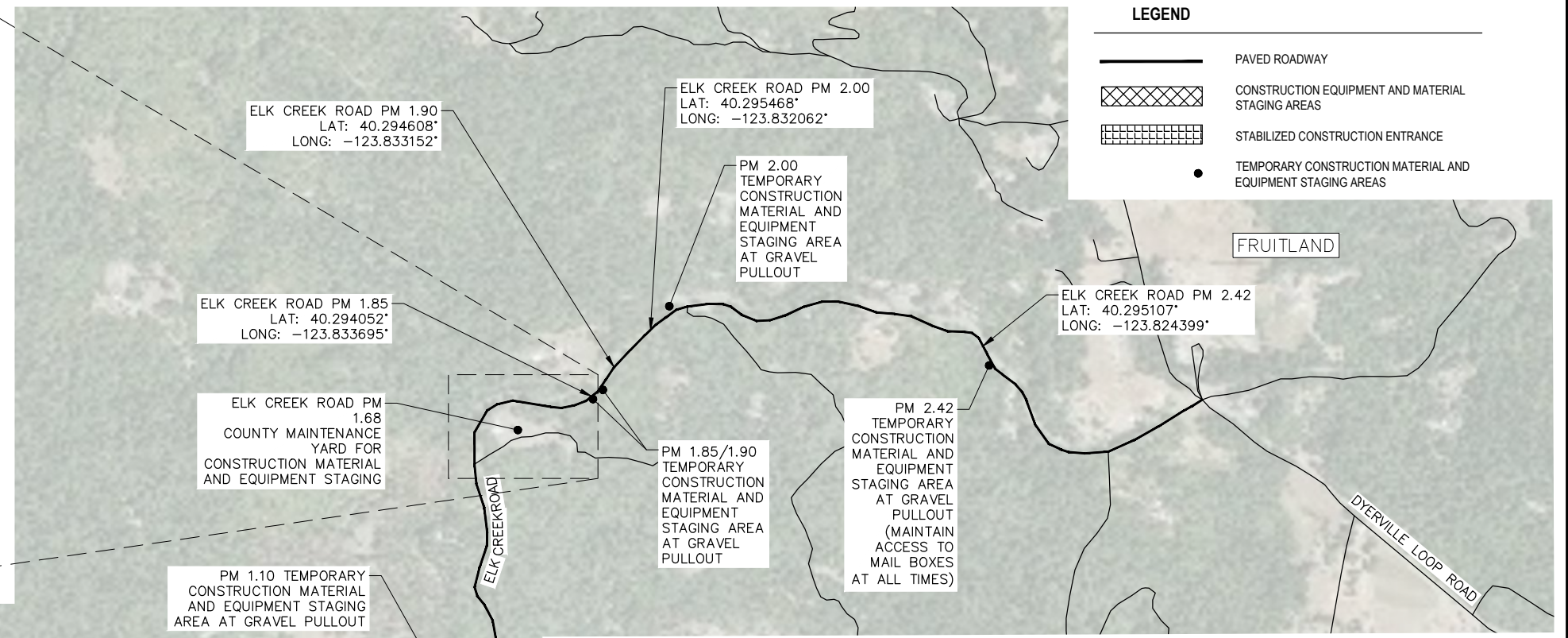
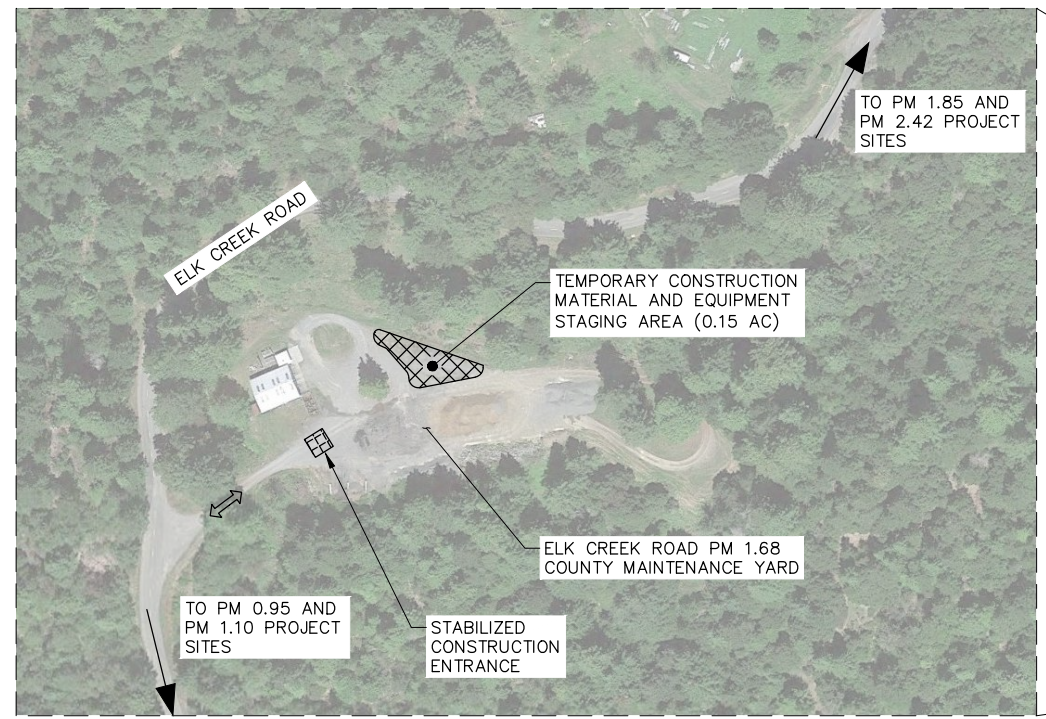
SHEET	SHEET TITLE
1	TITLE SHEET
2	CONSTRUCTION STAGING PLAN AND QUANTITIES
3-14	ELK CREEK RD PM 0.95
15-26	ELK CREEK RD PM 1.10
27-46	ELK CREEK RD PM 1.85, 1.90 & 2.00
47-54	ELK CREEK RD PM 2.42
55	CONSTRUCTION DETAILS



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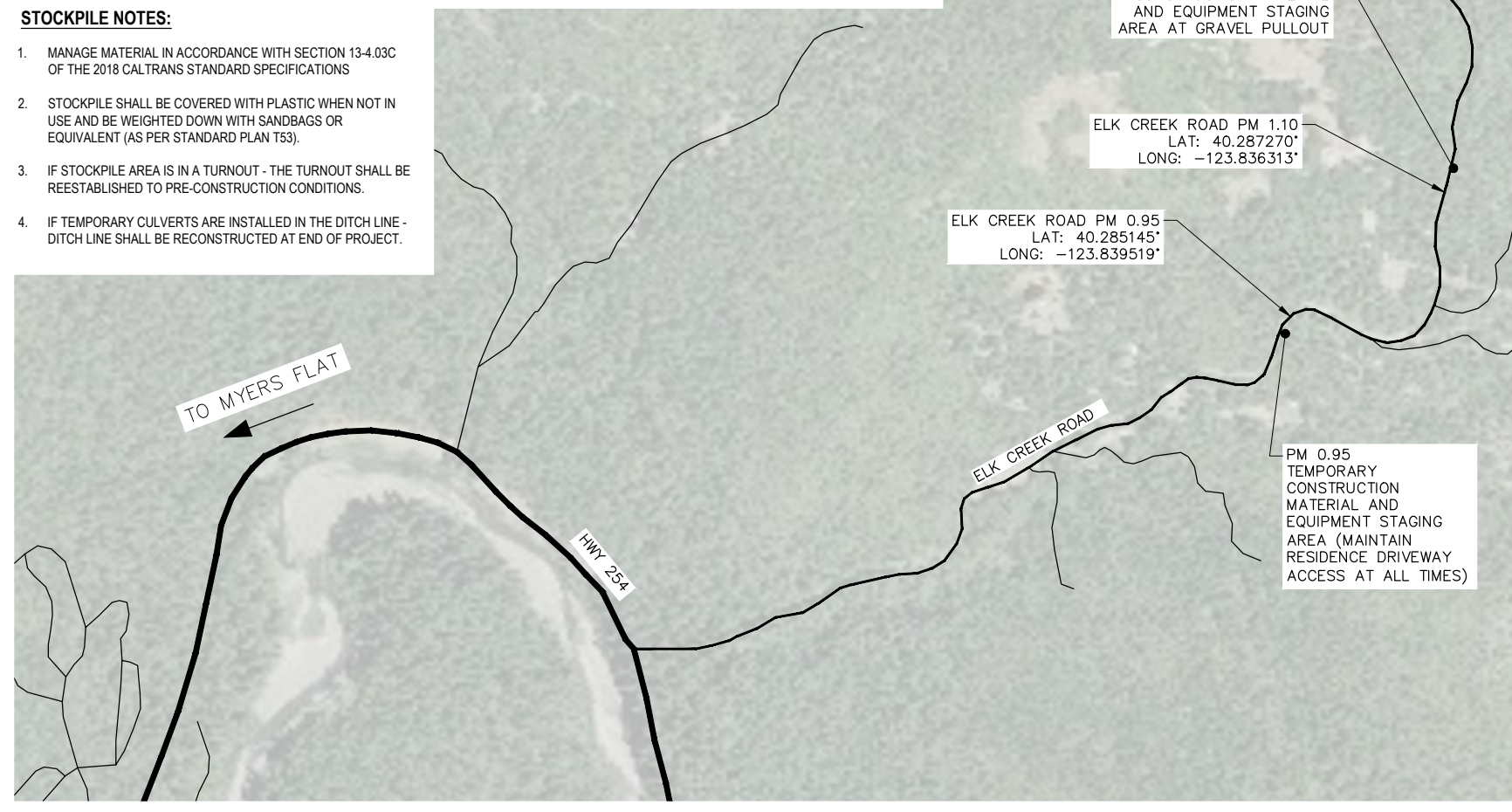


**LEGEND**

	PAVED ROADWAY
	CONSTRUCTION EQUIPMENT AND MATERIAL STAGING AREAS
	STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY CONSTRUCTION MATERIAL AND EQUIPMENT STAGING AREAS

**STOCKPILE NOTES:**

1. MANAGE MATERIAL IN ACCORDANCE WITH SECTION 13-4.03C OF THE 2018 CALTRANS STANDARD SPECIFICATIONS
2. STOCKPILE SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN T53).
3. IF STOCKPILE AREA IS IN A TURNOUT - THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
4. IF TEMPORARY CULVERTS ARE INSTALLED IN THE DITCH LINE - DITCH LINE SHALL BE RECONSTRUCTED AT END OF PROJECT.

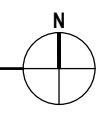


**QUANTITIES**

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITIES						TOTAL QUANTITY
				PM 0.95	PM 1.10	PM 1.85	PM 1.90	PM 2.00	PM 2.42	
1	120090	Construction Area Signs	EA	8	6	2	2	2	8	28
2	120100	Traffic Control System	LS	N/A	N/A	N/A	N/A	N/A	N/A	1
3	120202	Portable Signal System	LS	N/A	N/A	N/A	N/A	N/A	N/A	1
4	129000	Temporary Railing (Type K)	LS	26	47	20	18	16	15	142
5	130100	Job Site Management	LS	N/A	N/A	N/A	N/A	N/A	N/A	1
6	130300	Prepare Storm Water Pollution Prevention Plan	LS	N/A	N/A	N/A	N/A	N/A	N/A	1
7	130310	Rain Event Action Plan	EA	16	16	16	16	16	16	96
8	130320	Stormwater Sampling and Analysis Day	EA	8	8	8	8	8	8	48
9	130330	Stormwater Annual Report (Single Report for 6 Sites)	LS	N/A	N/A	N/A	N/A	N/A	N/A	1
10	130610	Temporary Check Dam	LF	55	70	70	35	35	40	305
11	130640	Fiber Rolls	LF	550	772	516	534	277	260	2909
12	130680	Temporary Silt Fence	LF	218	450	340	228	200	380	1816
13	160102	Clearing and Grubbing	LS	N/A	N/A	N/A	N/A	N/A	N/A	1
14	160120	Remove Tree	EA	8	8	7	3	6	1	33
15	190101	Roadway Excavation	CY	4029	4077	1562	2244	1036	1153	14101
16	198010	Import Borrow	CY	N/A	N/A	N/A	N/A	N/A	N/A	500
17	198050	Embankment	CY	3691	3370	1350	1988	736	944	12079
18	198250A	Geosynthetic Reinforcement (Primary Reinforcement)	SY	5391	4769	1959	2829	1083	1383	17414
19	198250B	Geosynthetic Reinforcement (Secondary Reinforcement)	SY	894	747	240	293	142	413	2729
20	210280	Rolled Erosion Control Product (Blanket)	SF	6000	6730	4900	4030	2060	2765	26485
21	210430	Dry Seed (SQFT)	SF	6000	6730	4900	4030	2060	2765	26485
22	260203	Class 2 Aggregate Base	CY	328	392	210	200	170	142	1442
23	390132	Hot Mix Asphalt (Type A)	TON	203	219	126	110	94	76	828
24	394040	Place Hot Mix Asphalt Dike (Type A)	LF	281	249	162	165	100	127	1084
25	641107A	18" Plastic Pipe (Heat-Fused HDPE)	LF	149	134	82				365
26	641113	24" HDPE Pipe (Heat-Fused HDPE)	LF				87			87
27	692381	Concrete Anchor and Cable Assembly	EA	2	2	1				5
28	692361	Flume Anchor Assembly	EA	1	1	1	1	1	1	5
29	680901	6" Perforated Plastic Pipe (Pipe Only)	LF	148	300	115	113	60	51	787
30	680902	6" Perforated Plastic Pipe (Trenched Underdrain)	LF	240	320	210	200	160	126	1256
31	691900	Flume Downdrain	LF		7	7	14	21	7	56
32	692101	Tapered Inlet	EA		1	1	1	1	1	5
33	700638	36" Corrugated Steel Pipe Inlet (.079" Thick)	LF	9	8	5				22
34	710130	Remove Culvert	EA	2	1		1			4
35	682049	Permeable Material (Blanket Drain)	CY	451	764	250	314	140	121	2040
36	680903	6" Non-Perforated Plastic Pipe	LF	31	97	57	56	59	61	361
37	723070	Rock Slope Protection (150 lb, Class III, Method B)	CY	8	8	4	9	0	0	29
38	723080	Rock Slope Protection (60 lb, Class II, Method B)	CY	2	3	3	2	3	3	16
39	840505	4" Thermoplastic Traffic Stripe	LF	393	435	285	250	210	202	1775
40	999990	Mobilization	LS	N/A	N/A	N/A	N/A	N/A	N/A	1

**ELK CREEK ROAD PM 0.95 - 2.42 CONSTRUCTION STAGING AREAS**

NOT TO SCALE



**SURVEY CONTROL NOTES**

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR A ROAD FAILURE AT PM 0.95 OF ELK CREEK ROAD (CO. RD. NO. C6D060), HUMBOLDT COUNTY, CA. THIS SURVEY REFLECTS CONDITIONS ON THE SITE AT TIME OF SURVEY; FIELD WORK WAS PERFORMED ON APRIL 30, MAY 2 AND MAY 7, 2019.
2. UNDERGROUND UTILITIES RESEARCH WAS NOT PERFORMED. NO EVIDENCE OF UNDERGROUND UTILITIES WAS OBSERVED EXCEPT FOR STORM DRAINS SHOWN HEREON. SEE UNDERGROUND UTILITY NOTE HEREON.
3. 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 12 MINUTES 08 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 0.99992171 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 490.06' FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 50.
4. ONLY TREES GREATER THAN 12 INCHES IN DIAMETER WERE LOCATED, NUMEROUS OTHER SMALLER TREES EXIST AND ARE NOT SHOWN. TREES ARE GENERALLY LOCATED BREST HIGH. THEIR LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AS NOT ALL TREES ARE GROWING VERTICALLY.
5. NO BOUNDARY SURVEY WAS PERFORMED AS PART OF THIS PROJECT, THEREFORE PROPERTY LINES ARE NOT SHOWN HEREON. OWNERSHIP SHOWN IS BASED ON HUMBOLDT COUNTY GIS AND WAS NOT VERIFIED. IN THIS VICINITY THE PROPERTY LINE BETWEEN THE PARCELS SHOWN IS THE CENTERLINE OF THE ROAD.
6. THE RIGHT OF WAY SHOWN ON THIS SURVEY IS FORTY FEET IN WIDTH CENTERED ON THE EXISTING CENTERLINE OF THE ROAD. NO DEEDED, DEDICATED, OR ROAD REGISTER RIGHT OF WAY WAS FOUND IN THE COURSE OF RESEARCH FOR THIS PROJECT. RIGHT OF WAY IS THEREFORE AN IMPLIED COMMON LAW DEDICATION VIA LONGTIME PUBLIC USE AND MAINTENANCE BY THE COUNTY.

**GENERAL NOTES**

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

**UNDERGROUND UTILITY NOTES**

1. UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR.
2. 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.
3. CALL UNDERGROUND SERVICE ALERT (USA) 1-800-642-2444 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.

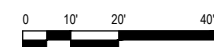
**LEGEND**

- TEMPORARY CONTROL POINT
- ELK CREEK ROAD RW
- ELK CREEK ROAD PM 0.95 CL
- TEMPORARY CONSTRUCTION EASEMENT (TCE)
- DRAINAGE RW
- ALIGNMENT LINE

STA: "R" 1+00.00  
N: 1992313.740  
E: 6048407.420

STA: "PM 0.95 KEY" 0+00.00  
N: 1992498.956  
E: 6048500.619

APN 211-622-001  
LANDS OF WEEKS/HOLTZCLAW  
DOC 2002-4511



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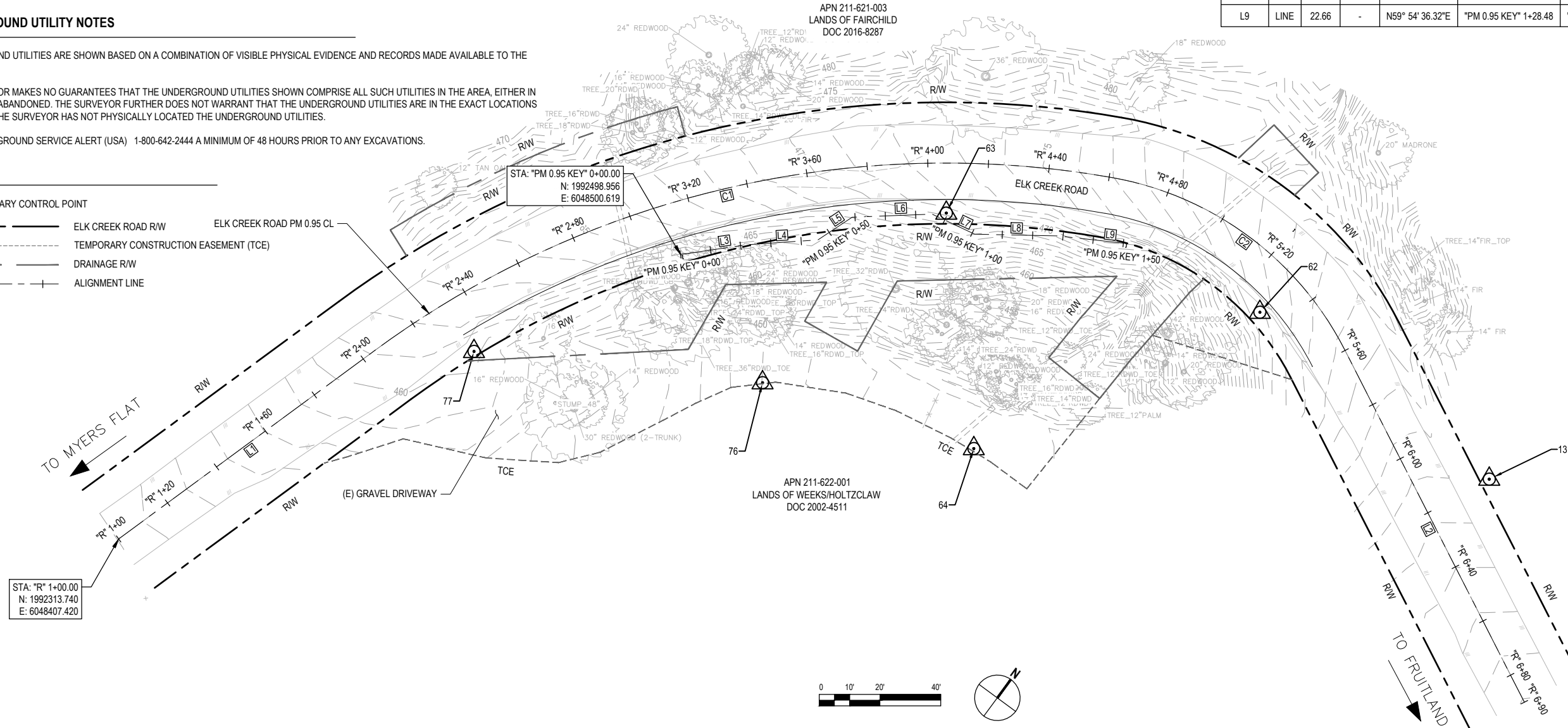
<b>COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS</b>	
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
<b>PM 0.95 SURVEY CONTROL PLAN</b>	

SHEET  
3  
OF  
55

POINT TABLE				
POINT#	EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION
13	6048758.81	1992597.54	490.06	CP_SPK
62	6048665.40	1992596.93	480.72	CP_SPK
63	6048562.94	1992561.90	470.29	CP_SPK
64	6048616.28	1992504.87	447.39	CP_SPK
76	6048547.44	1992481.03	449.98	CP_SPK
77	6048464.88	1992432.91	460.32	CP_SPK

ELK CREEK ROAD P 0.95 CONSTRUCTION CENTERLINE GEOMETRY - "R" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L1	LINE	104.76	-	N17° 13' 06.00"E	"R" 1+00.00	"R" 2+04.76
C1	CURVE	255.86	317.00		"R" 2+04.76	"R" 4+60.62
C2	CURVE	99.16	107.00		"R" 4+60.62	"R" 5+59.78
L2	LINE	130.21	-	S63° 26' 08.00"E	"R" 5+59.78	"R" 6+90.00

PM 0.95 CONSTRUCTION KEYWAY TOE GEOMETRY - "PM 0.95 KEY" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L3	LINE	22.16	-	N45° 14' 48.71"E	"PM 0.95 KEY" 0+00.00	"PM 0.95 KEY" 0+22.16
L4	LINE	23.36	-	N49° 40' 37.13"E	"PM 0.95 KEY" 0+22.16	"PM 0.95 KEY" 0+45.53
L5	LINE	13.55	-	N20° 03' 01.70"E	"PM 0.95 KEY" 0+45.53	"PM 0.95 KEY" 0+59.08
L6	LINE	26.36	-	N51° 21' 31.33"E	"PM 0.95 KEY" 0+59.08	"PM 0.95 KEY" 0+85.44
L7	LINE	15.46	-	N78° 52' 07.84"E	"PM 0.95 KEY" 0+85.44	"PM 0.95 KEY" 1+00.90
L8	LINE	27.58	-	N54° 46' 52.87"E	"PM 0.95 KEY" 1+00.90	"PM 0.95 KEY" 1+28.48
L9	LINE	22.66	-	N59° 54' 36.32"E	"PM 0.95 KEY" 1+28.48	"PM 0.95 KEY" 1+51.14





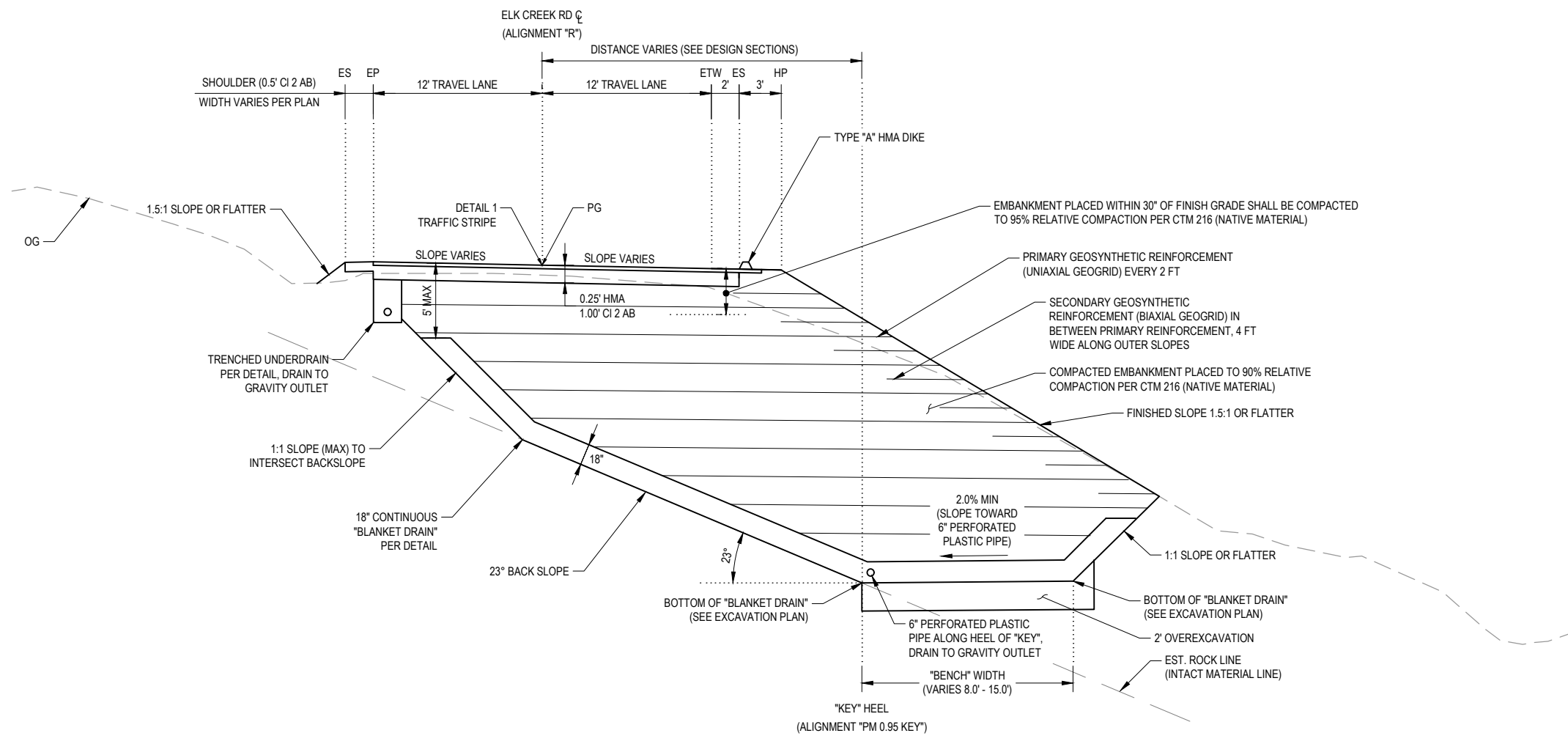
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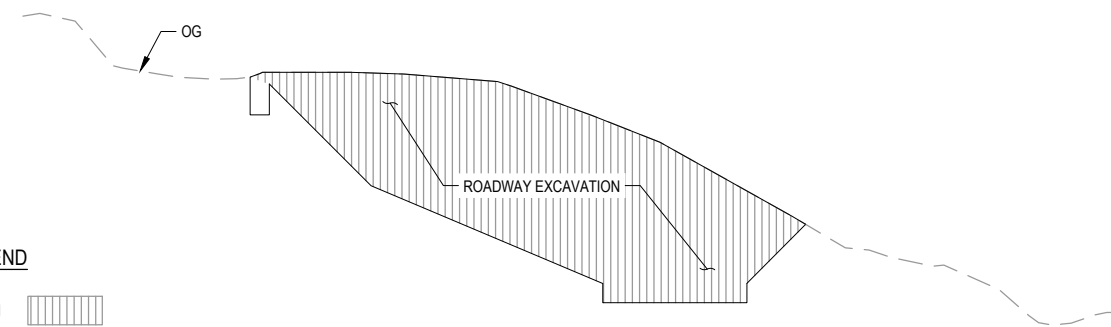
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 TYPICAL SECTIONS

SHEET 4 OF 55



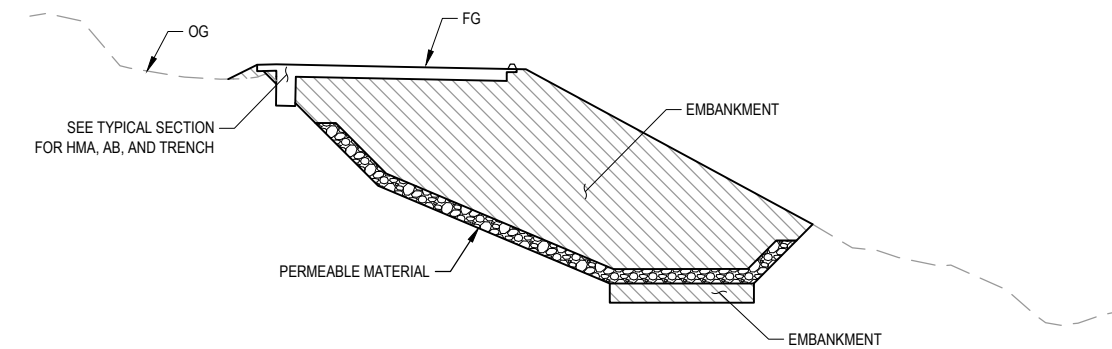
**TYPICAL SECTION ELK CREEK ROAD PM 0.95**  
NOT TO SCALE STA "R" 2+32 - STA "R" 5+20



**LEGEND**

- ROADWAY EXCAVATION
- EMBANKMENT
- PERMEABLE MATERIAL

**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE

NOTE: THIS PLAN IS ACCURATE FOR STAGE CONSTRUCTION ONLY



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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 TRAFFIC CONTROL, STAGING/STOCKPILE LOCATIONS AND POTENTIAL STAGE CONSTRUCTION 1 OF 2

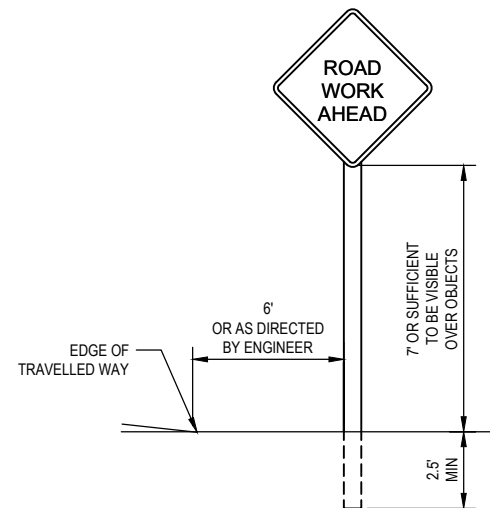
SHEET 5 OF 55

**TRAFFIC THIS STAGE:**

TWO-WAY/ONE-LANE TRAFFIC AS SIGNAL CONTROLLED WITH CHANNELIZERS AND K-RAIL PLACED PER PLAN.

**NOTES:**

- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) AND CALTRANS 2018 STANDARD PLANS.
- EXACT SIGN AND SIGNAL LOCATIONS AND POSITIONS TO BE APPROVED BY THE ENGINEER.
- ALL WORK AND TEMPORARY TRAFFIC ROUTES SHALL BE CONFINED TO THE COUNTY R/W AND TCE'S OBTAINED BY THE COUNTY FOR THE PROJECT.
- ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
- ALTERNATIVE POST CONFIGURATION TO BE APPROVED BY COUNTY ENGINEER.
- REFER TO CAMUTCD FIGURE 6H-12 FOR LANE CLOSURE ON A TWO-LANE ROAD USING TRAFFIC CONTROL SIGNALS (TA-12).
- MAINTAIN ALL SIGNS THROUGHOUT DURATION OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF ONE OPEN TRAFFIC LANE THROUGH OR AROUND THE WORK AREA AT ALL TIMES. TRAFFIC LANE SHALL BE AT LEAST 10 FEET WIDE, AND SHALL HAVE A SLOPE IN THE DIRECTION OF TRAVEL OF NO MORE THAN 15%. LANE SURFACE SHALL BE FIRM AND SMOOTH, AND FREE OF HOLES AND RUTS SO AS NOT TO IMPEDE TRAFFIC.
- THE MINIMUM STRUCTURAL SECTION FOR THE DETOUR ROUTE SHALL BE 0.5' C/2AB.
- PROVIDE FLAGGERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION.

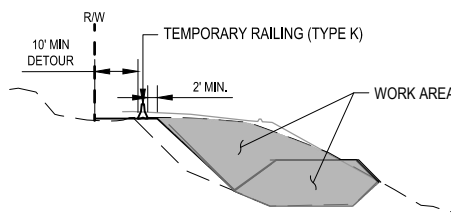


TYPICAL STATIONARY CONSTRUCTION AREA SIGNS

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER & POST SIZE	NO. OF SIGNS
A	W20-1	36"x36"	ROAD WORK AHEAD	(1) 4"x4"	1
B	W20-4	36"x36"	ONE LANE ROAD AHEAD	(1) 4"x4"	2
C	W3-3	36"x36"	SIGNAL WARNING	(1) 4"x4"	2
D	R10-6	24"x36"	STOP HERE ON RED	(1) 4"x4"	2
E	W7-3aP	24"x18"	NEXT 2 MILES	(1) 4"x4"	1
F	G20-2	36"x18"	END ROAD WORK	(1) 4"x4"	1

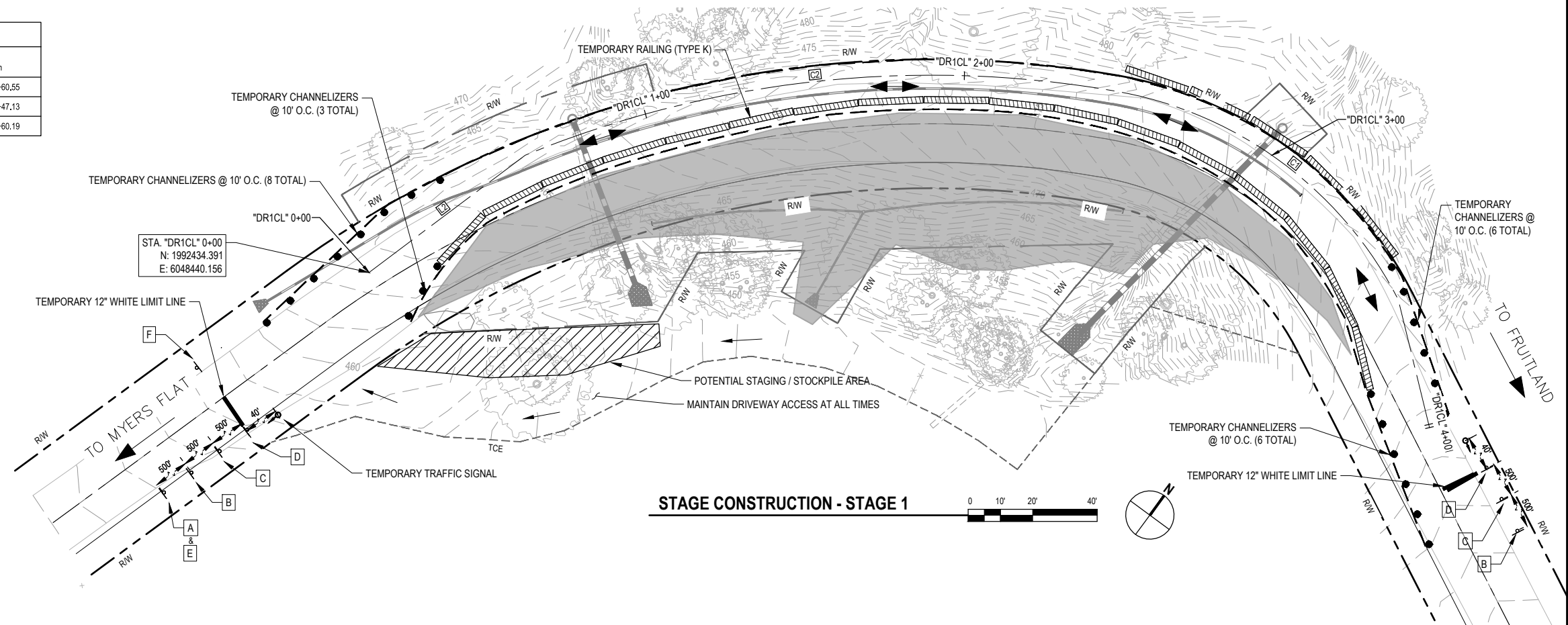
Segment	Type	Length	Radius	Direction	Start Station	End Station
L2	LINE	60.55	-	N16° 37' 42.91"E	"DR1CL" 0+00.00	"DR1CL" 0+60.55
C2	CURVE	186.58	331.98		"DR1CL" 0+60.55	"DR1CL" 2+47.13
C1	CURVE	113.06	121.99		"DR1CL" 2+47.13	"DR1CL" 3+60.19



STAGE 1: TYPICAL SECTION

**LEGEND**

- 



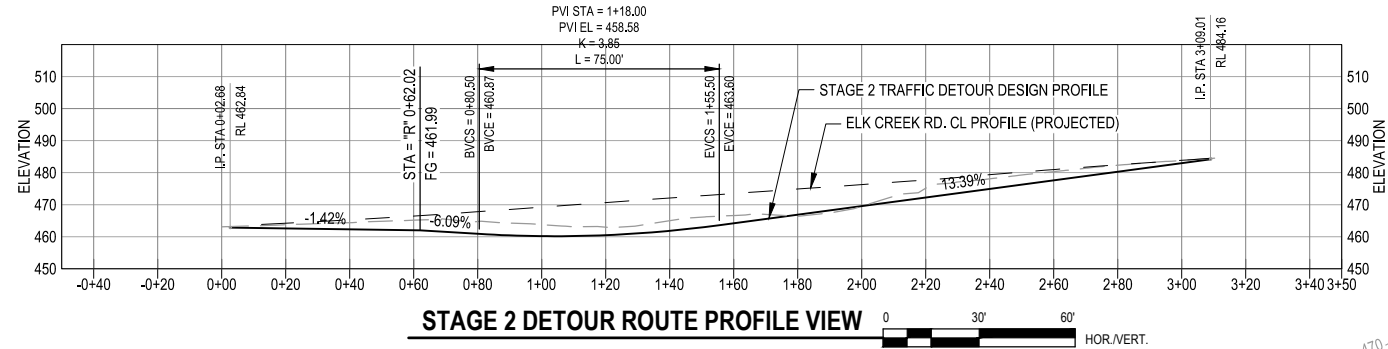
STAGE CONSTRUCTION - STAGE 1



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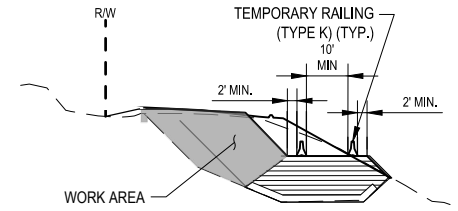


ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32LO(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	



STAGE 2 DETOUR ROUTE CONSTRUCTION CENTERLINE GEOMETRY - "DR2CL" ALIGNMENT

Segment	Type	Length	Radius	Direction	Start Station	End Station
L4	LINE	1.46	-	N27° 35' 24.05"E	"DR2CL" 0+00.00	"DR2CL" 0+01.46
C3	CURVE	62.29	138.72		"DR2CL" 0+01.46	"DR2CL" 0+63.75
L5	LINE	87.39	-	N53° 19' 06.58"E	"DR2CL" 0+63.75	"DR2CL" 1+51.15
C5	CURVE	57.78	1201.90		"DR2CL" 1+51.15	"DR2CL" 2+08.92
L6	LINE	20.17	-	N50° 33' 50.63"E	"DR2CL" 2+08.92	"DR2CL" 2+29.09
C4	CURVE	72.63	74.57		"DR2CL" 2+29.09	"DR2CL" 3+01.73
L3	LINE	8.59	-	S73° 37' 41.55"E	"DR2CL" 3+01.73	"DR2CL" 3+10.32

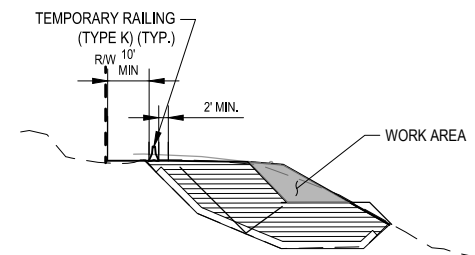


STAGE 2: TYPICAL SECTION  
NTS

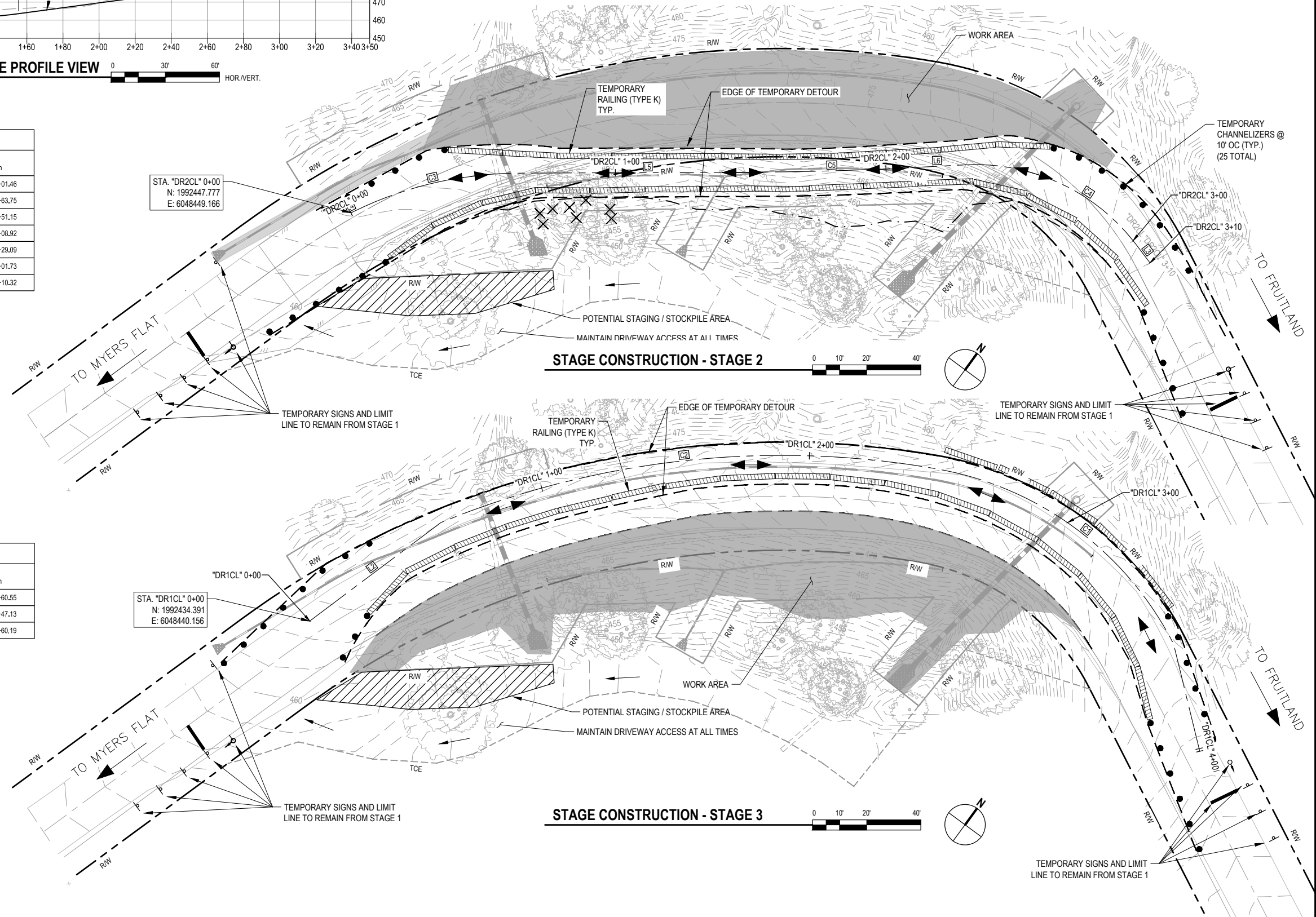
STAGE 1 OR 3 DETOUR ROUTE CONSTRUCTION CENTERLINE GEOMETRY - "DR1CL" ALIGNMENT

Segment	Type	Length	Radius	Direction	Start Station	End Station
L2	LINE	60.55	-	N16° 37' 42.91"E	"DR1CL" 0+00.00	"DR1CL" 0+60.55
C2	CURVE	186.58	331.98		"DR1CL" 0+60.55	"DR1CL" 2+47.13
C1	CURVE	113.06	121.99		"DR1CL" 2+47.13	"DR1CL" 3+60.19

\*NOTE: THIS OPTION PLACES THE STAGE 3 DETOUR ALONG THE STAGE 1 DETOUR ALIGNMENT ("DR1CL")



STAGE 3: TYPICAL SECTION  
NTS





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BAR IS ONE INCH ON ORIGINAL DRAWING	ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NO: C6D060	DESIGNED BY: C. HAYES
	MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
	PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
	CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
	PLOT DATE: 05/20/2022	

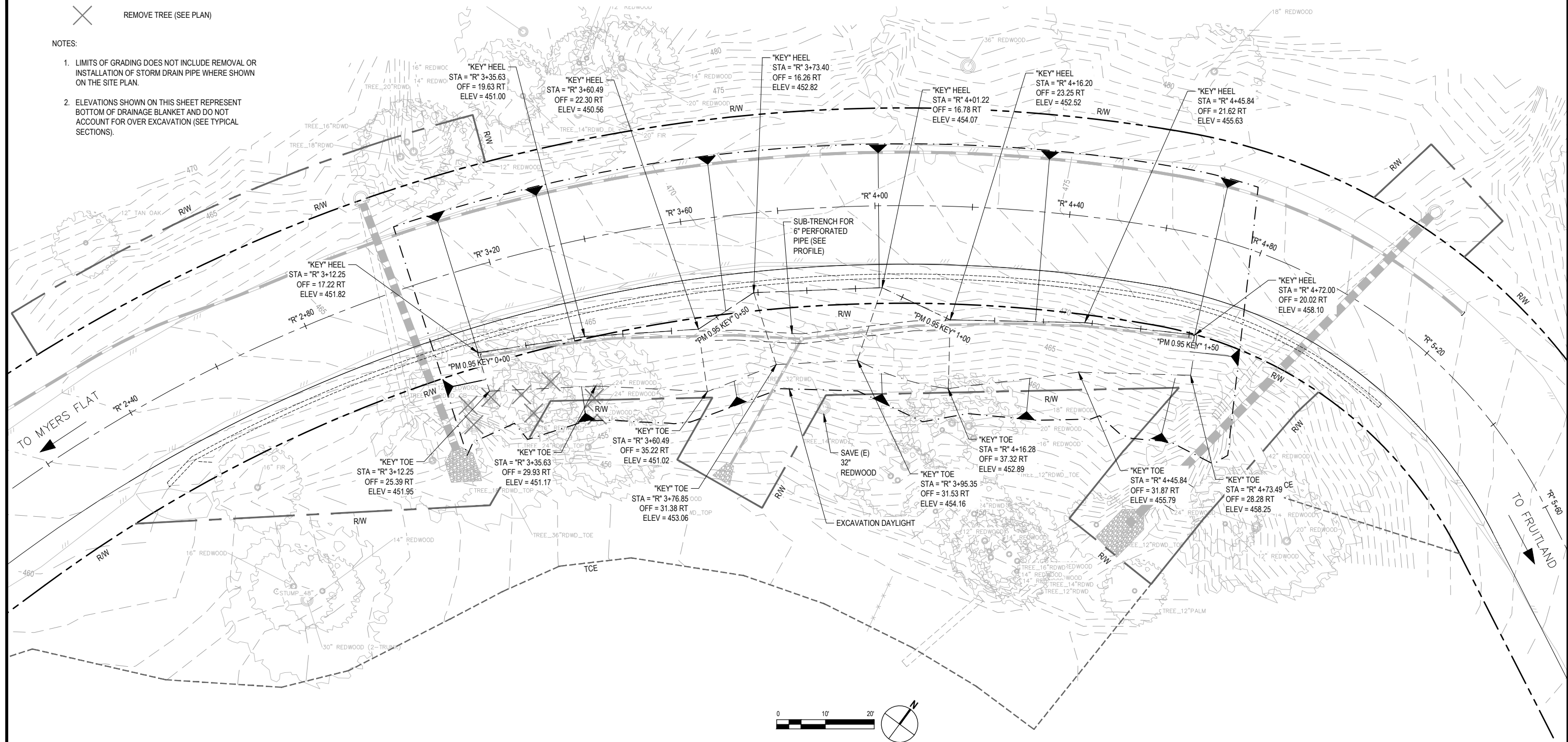
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 KEY EXCAVATION PLAN

SHEET  
7  
OF  
55

**LEGEND**

- TOP OF EXCAVATION
- BOTTOM OF EXCAVATION
- REMOVE TREE (SEE PLAN)

- NOTES:**
- LIMITS OF GRADING DOES NOT INCLUDE REMOVAL OR INSTALLATION OF STORM DRAIN PIPE WHERE SHOWN ON THE SITE PLAN.
  - ELEVATIONS SHOWN ON THIS SHEET REPRESENT BOTTOM OF DRAINAGE BLANKET AND DO NOT ACCOUNT FOR OVER EXCAVATION (SEE TYPICAL SECTIONS).



NOTE: LIMITS OF GRADING FOR STORM DRAIN PIPE INSTALLATION NOT SHOWN



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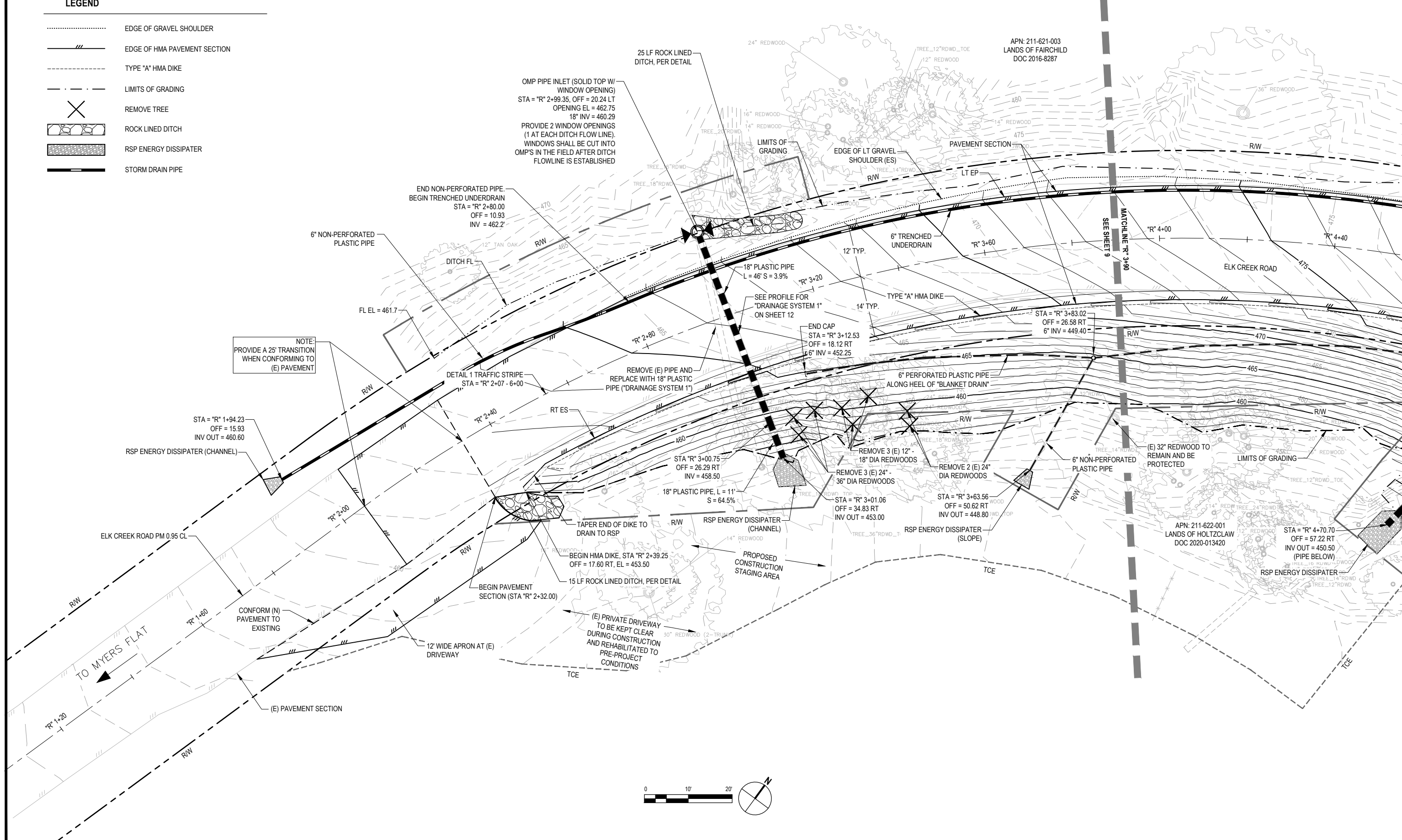
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ROAD NO: C6D060	DESIGNED BY: C. HAYES
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PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 ROADWAY PLAN - STA "R" 2+00 TO STA "R" 3+90

SHEET 8 OF 55

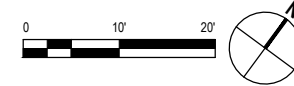
LEGEND

- EDGE OF GRAVEL SHOULDER
- ==== EDGE OF HMA PAVEMENT SECTION
- TYPE "A" HMA DIKE
- LIMITS OF GRADING
- ✕ REMOVE TREE
- ▨ ROCK LINED DITCH
- ▨ RSP ENERGY DISSIPATER
- STORM DRAIN PIPE



NOTE: PROVIDE A 25' TRANSITION WHEN CONFORMING TO (E) PAVEMENT

(E) PRIVATE DRIVEWAY TO BE KEPT CLEAR DURING CONSTRUCTION AND REHABILITATED TO PRE-PROJECT CONDITIONS





NOTE: LIMITS OF GRADING FOR STORM DRAIN PIPE INSTALLATION NOT SHOWN



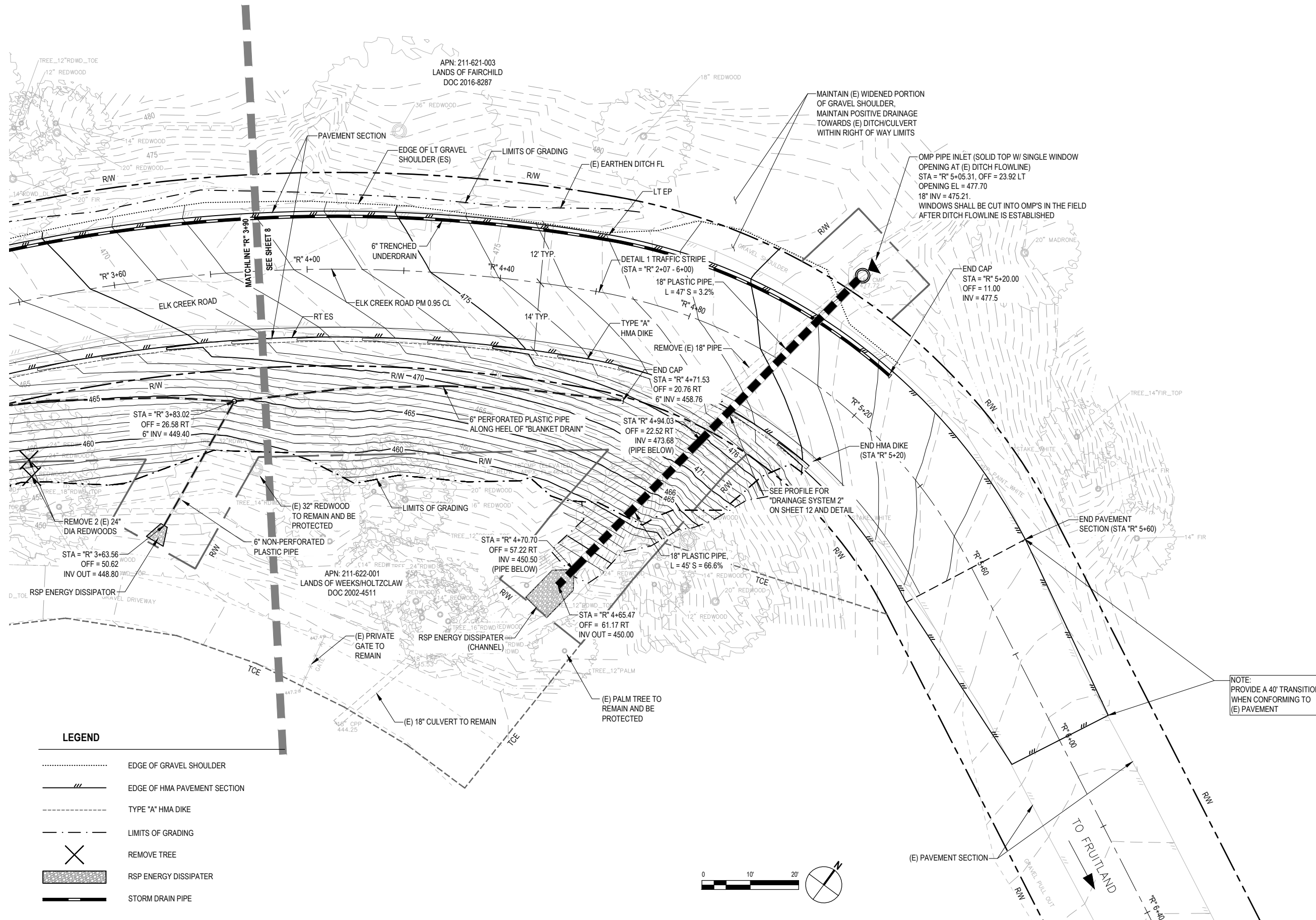
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MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 ROADWAY PLAN - STA "R" 3+90 TO STA "R" 5+80

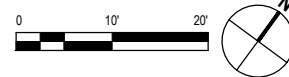
SHEET 9 OF 55



NOTE:  
PROVIDE A 40' TRANSITION  
WHEN CONFORMING TO  
(E) PAVEMENT

LEGEND

- ..... EDGE OF GRAVEL SHOULDER
- ==== EDGE OF HMA PAVEMENT SECTION
- TYPE "A" HMA DIKE
- - - - - LIMITS OF GRADING
- ✕ REMOVE TREE
- ▨ RSP ENERGY DISSIPATER
- ▬ STORM DRAIN PIPE





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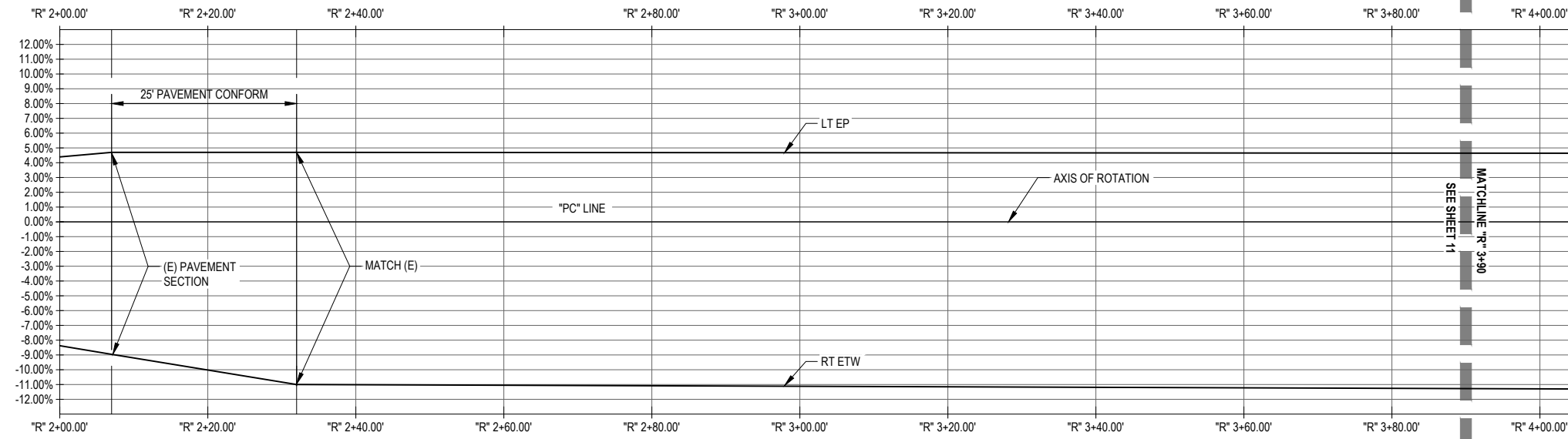
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 0.95 ROADWAY PROFILE AND SUPERELEVATION</b> - STA "R" 2+00 TO STA "R" 3+90

SHEET 10 OF 55

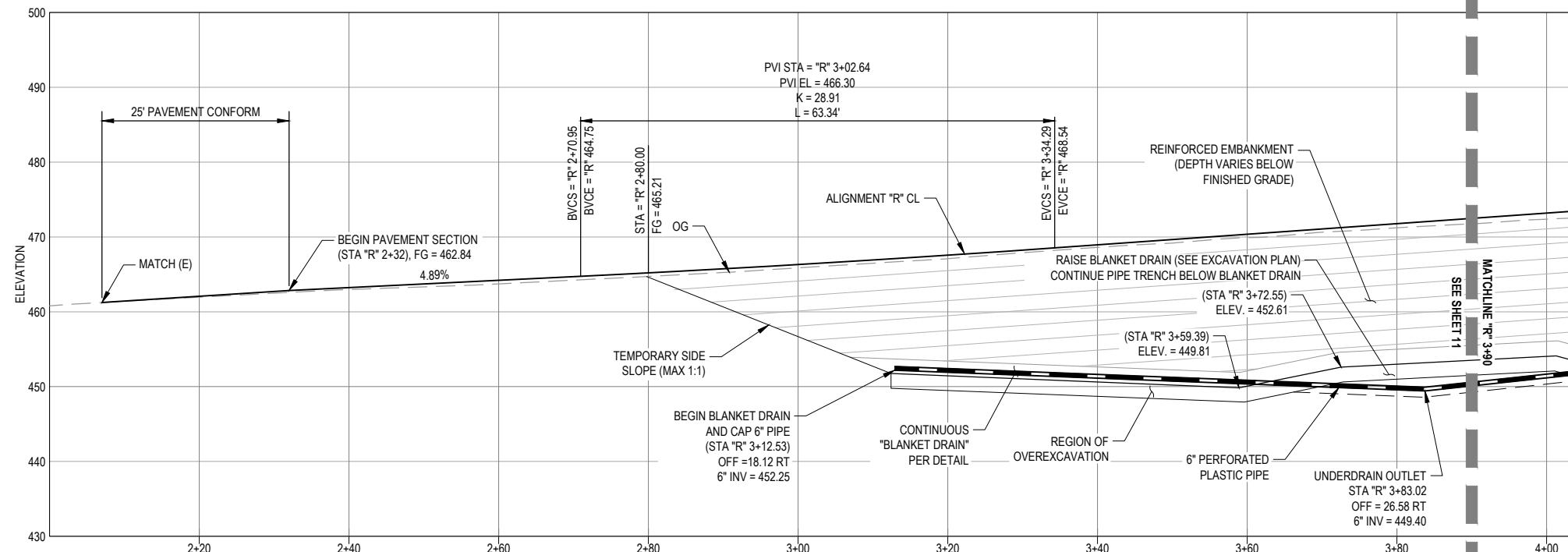
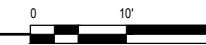
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 2+32	4.70%	463.40	462.84	461.52	-11.00%
"R" 5+20	4.60%	482.24	481.69	480.31	-11.50%
"R" 5+60	4.00%	485.00	484.52	483.44	-9.00%

Note: Negative cross slopes indicate downwards sloping away from centerline

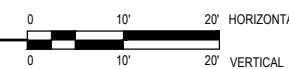
**ROADWAY ELEVATIONS**



**ELK CREEK ROAD PM 0.95 SUPERELEVATION**



**ELK CREEK ROAD PM 0.95 PROFILE VIEW**





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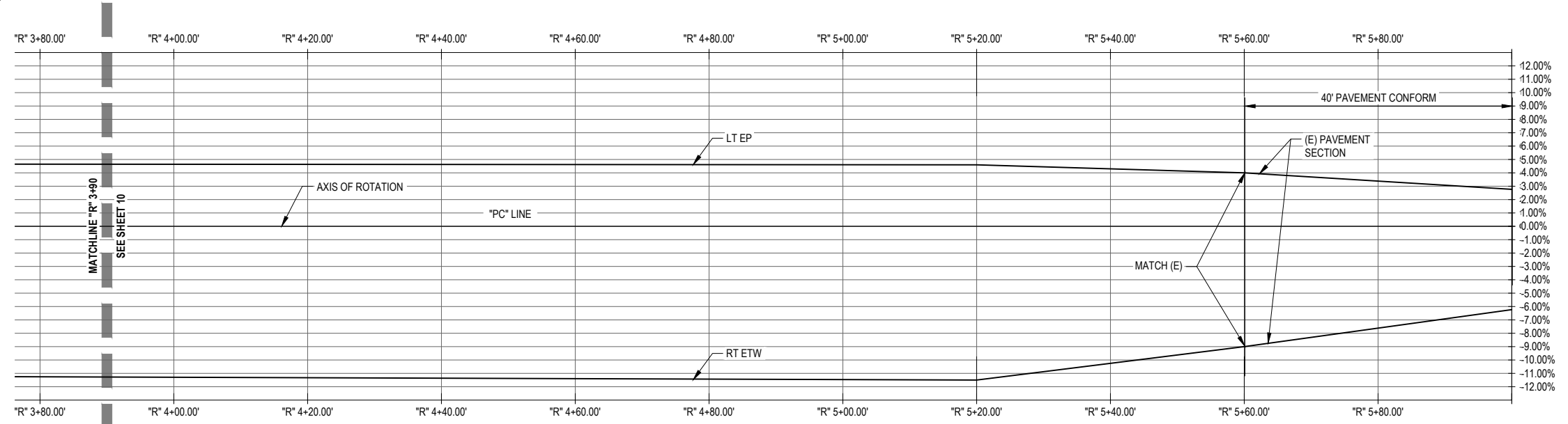
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 0.95 ROADWAY PROFILE AND SUPERELEVATION - STA "R" 3+90 TO STA "R" 6+00</b>

SHEET  
11  
OF  
55

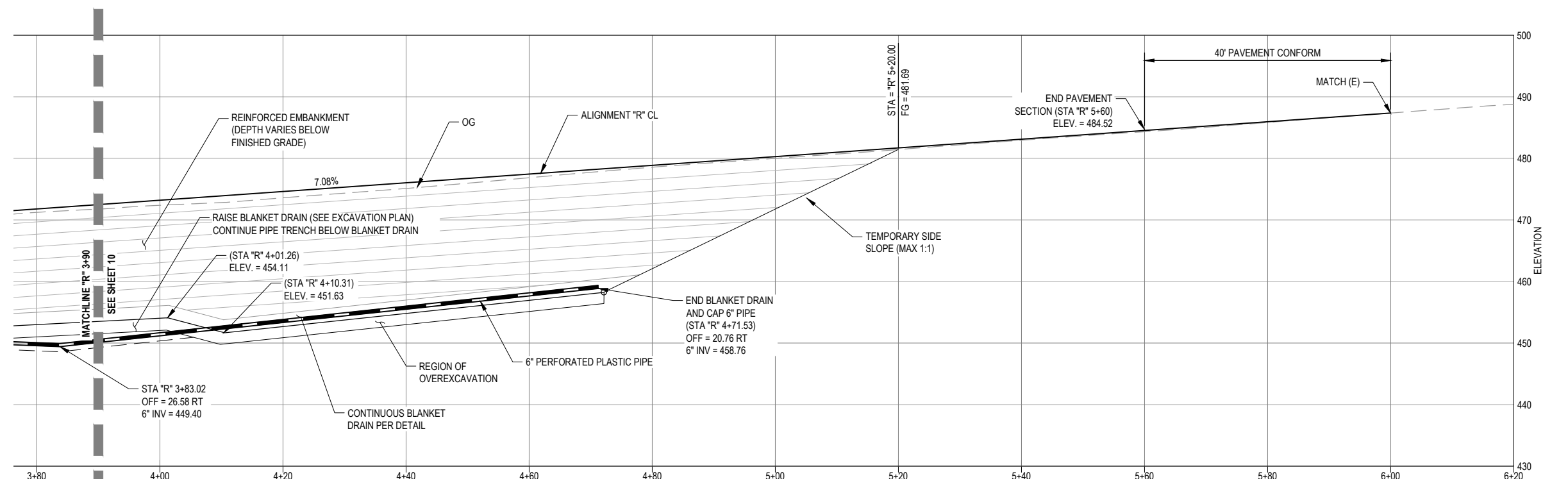
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 2+32	4.70%	463.40	462.84	461.52	-11.00%
"R" 5+20	4.60%	482.24	481.69	480.31	-11.50%
"R" 5+60	4.00%	485.00	484.52	483.44	-9.00%

Note: Negative cross slopes indicate downwards sloping away from centerline

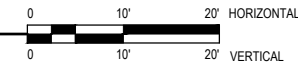
**ROADWAY ELEVATIONS**



**ELK CREEK ROAD PM 0.95 SUPERELEVATION**



**ELK CREEK ROAD PM 0.95 PROFILE VIEW**





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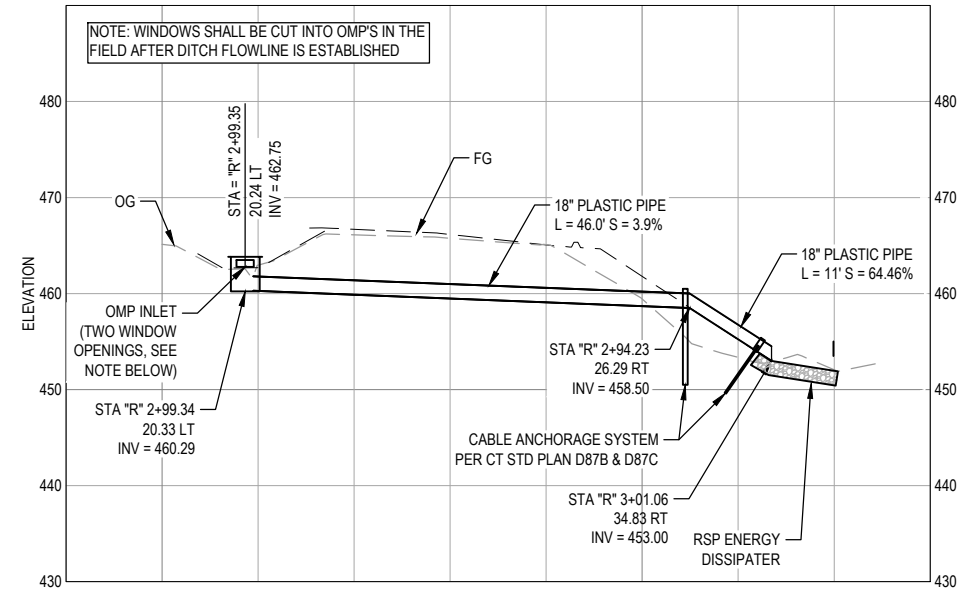
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MILE POST:	0.95 - 2.42
PROJECT NO.:	ER-32L(237)
CONTRACT NO.:	217236
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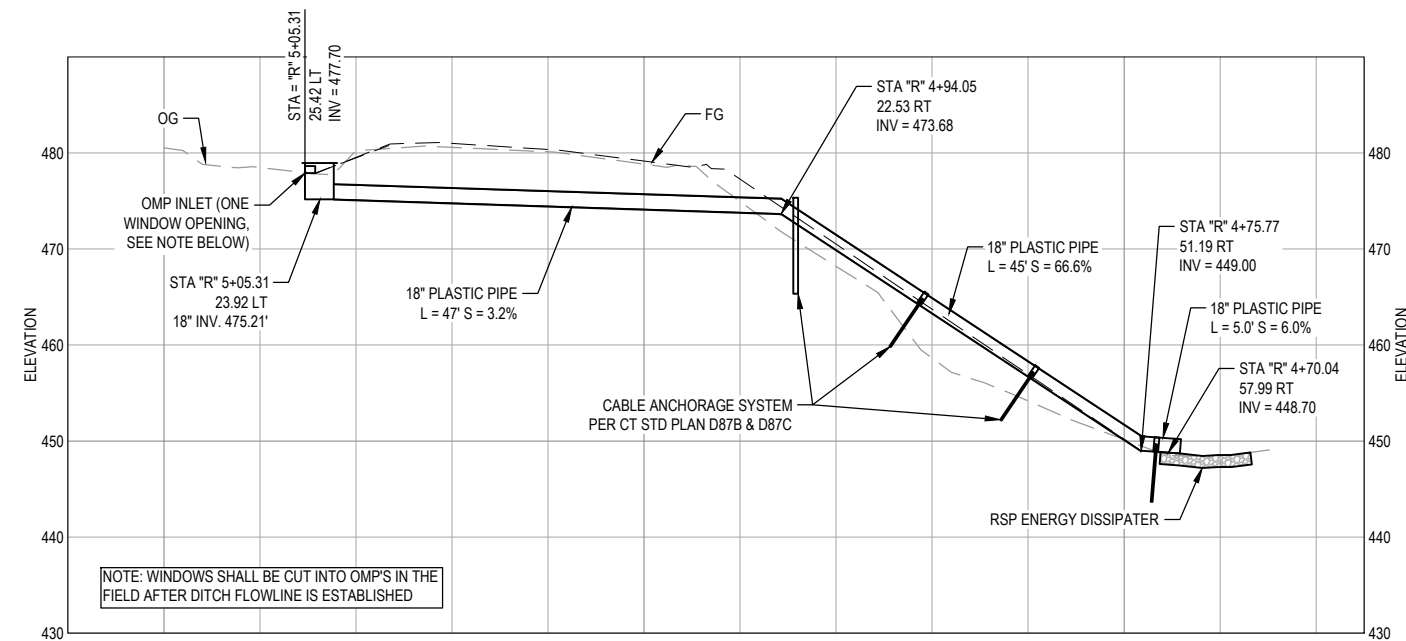
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C. HAYES
DRAWN BY:	C. HAYES
REVIEWED BY:	J. SVEHLA
APPROVED BY:	J. SVEHLA

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 DRAINAGE PROFILES

SHEET  
12  
OF  
55



DRAINAGE SYSTEM 1 PROFILE



DRAINAGE SYSTEM 2 PROFILE

NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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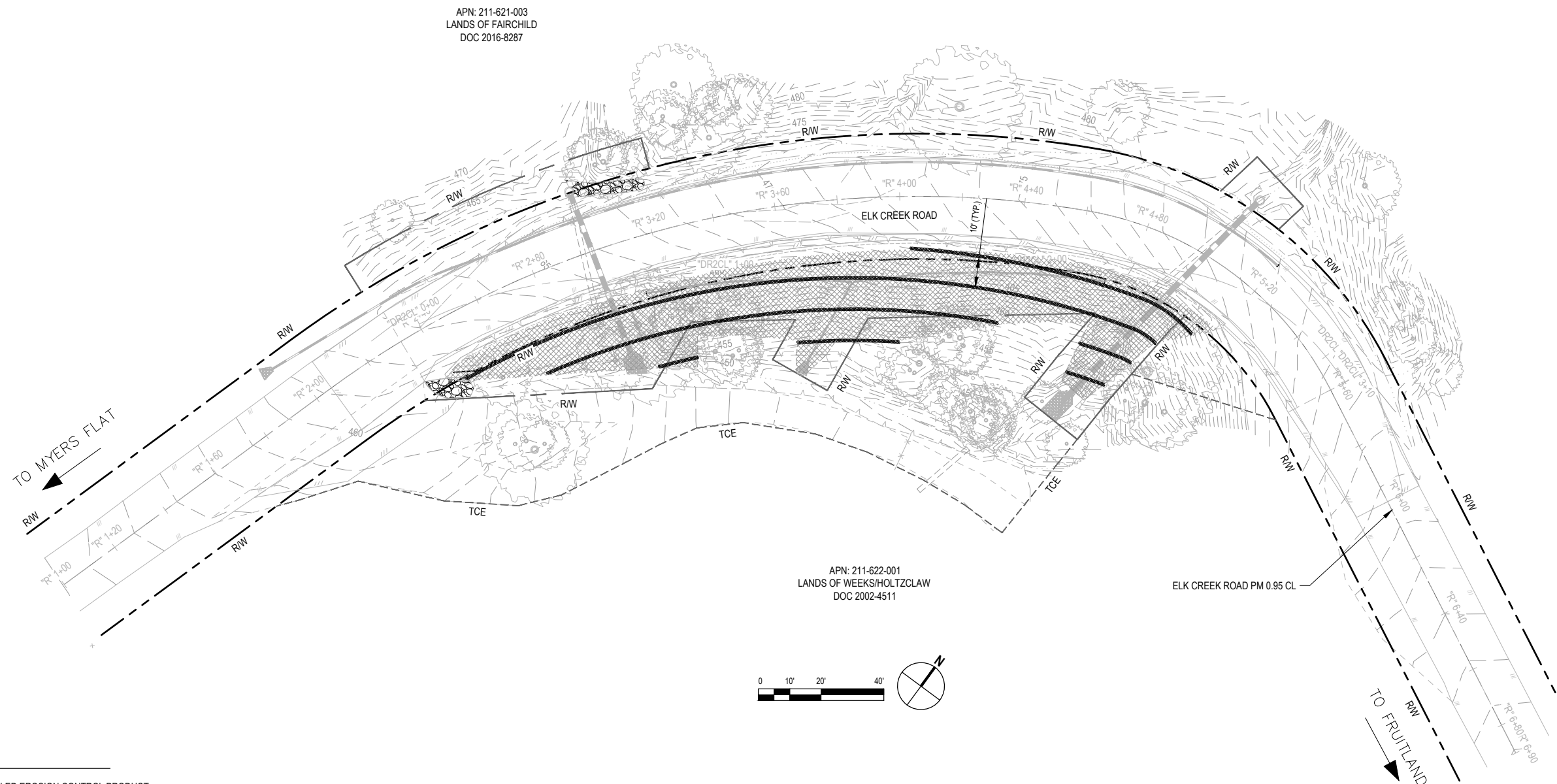
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 EROSION CONTROL PLAN

SHEET 13 OF 55
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GENERAL NOTES

1. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE, ENTERS THE EXISTING STORMWATER SYSTEMS, OR ENTERS SENSITIVE AREAS. BMPs ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
2. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.



LEGEND

- HAND SOWN SEED AND ROLLED EROSION CONTROL PRODUCT
- FIBER ROLLS



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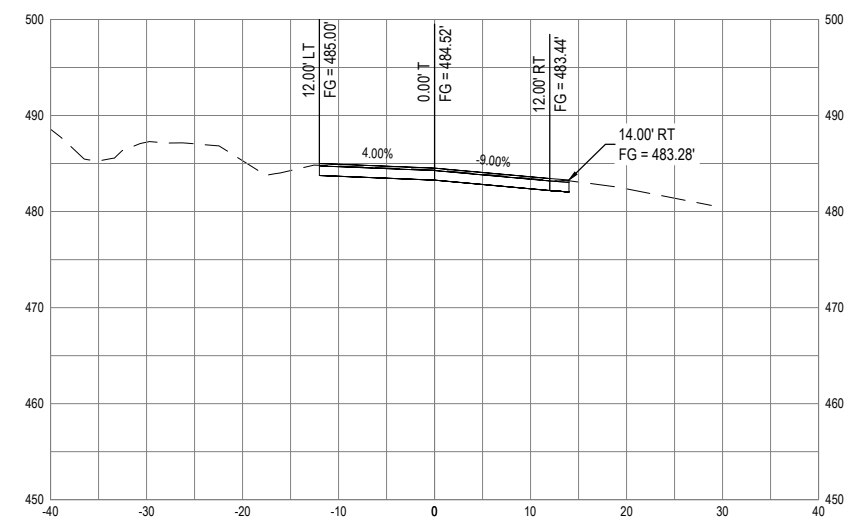
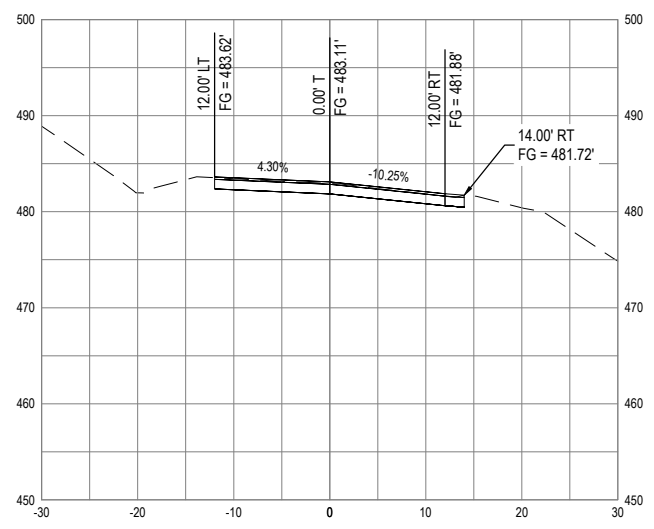
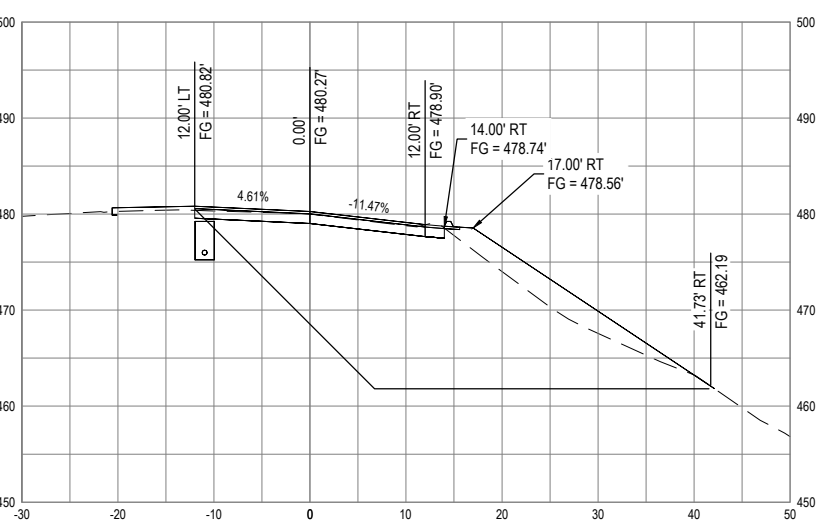
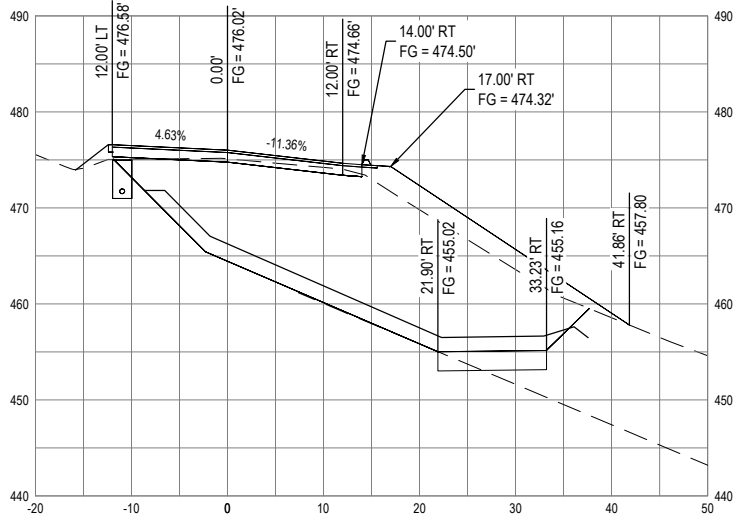
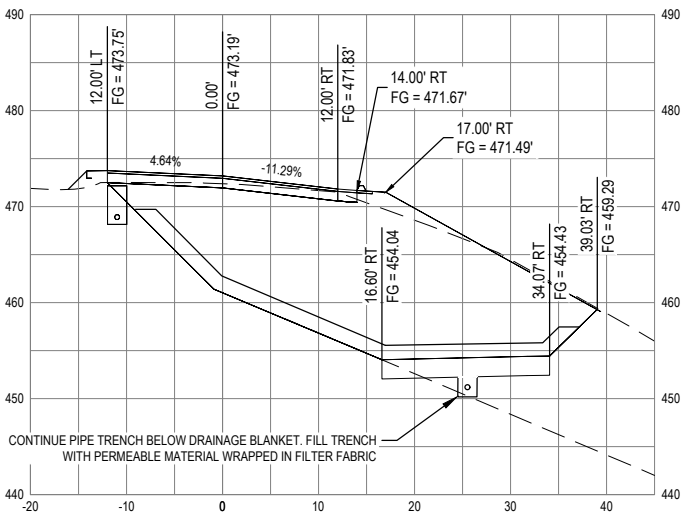
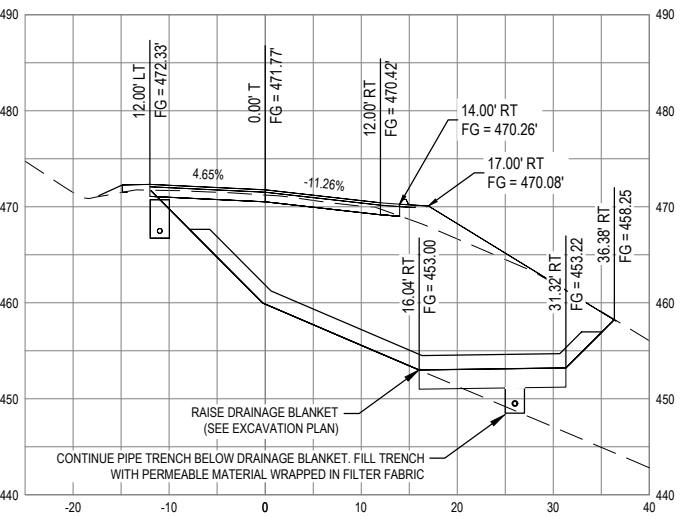
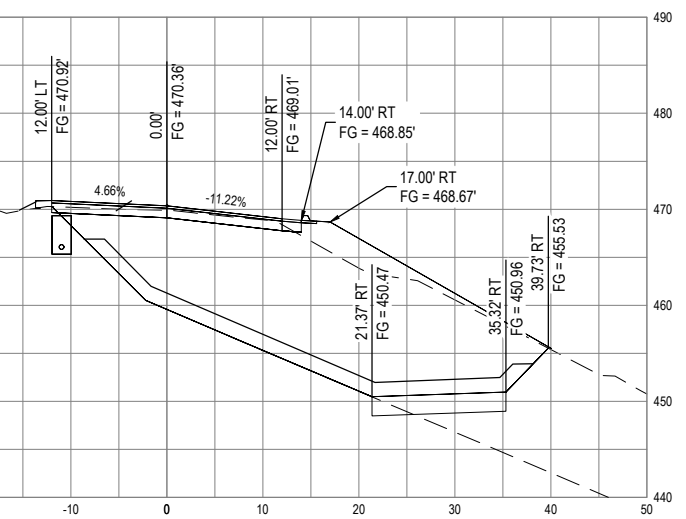
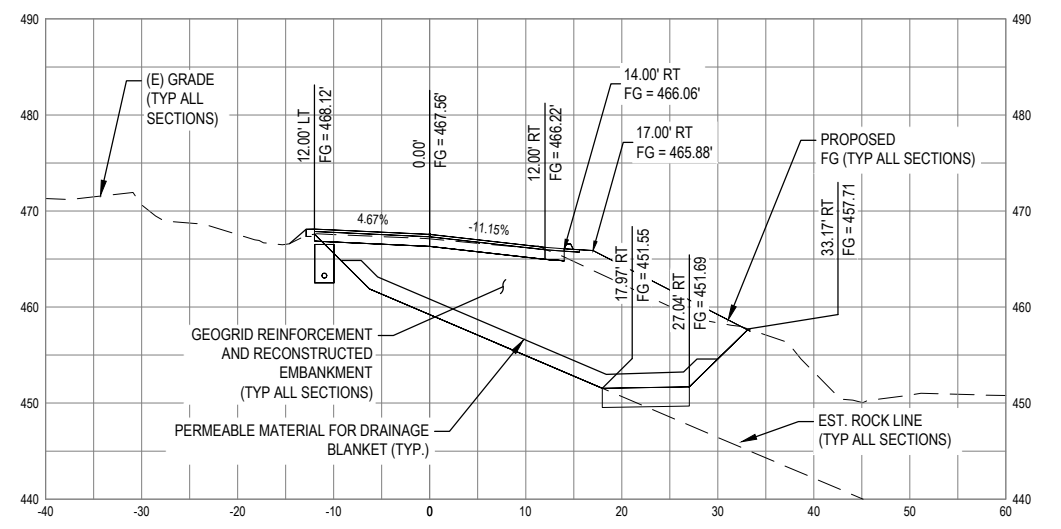
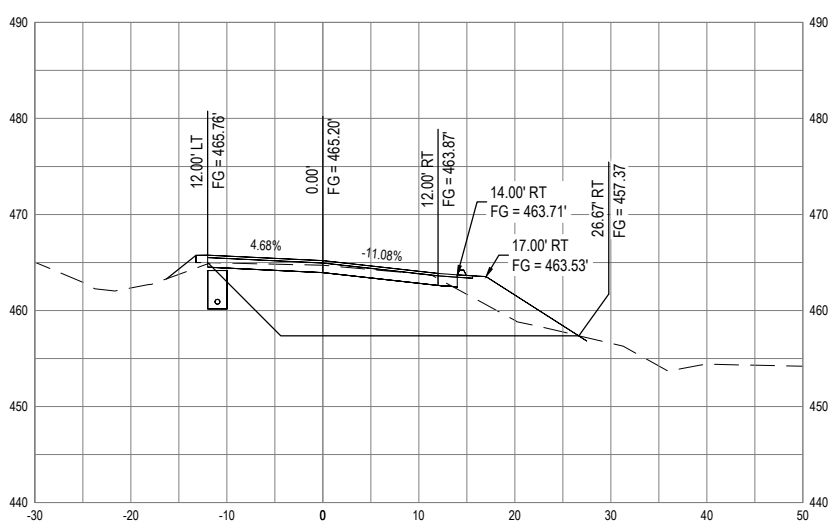
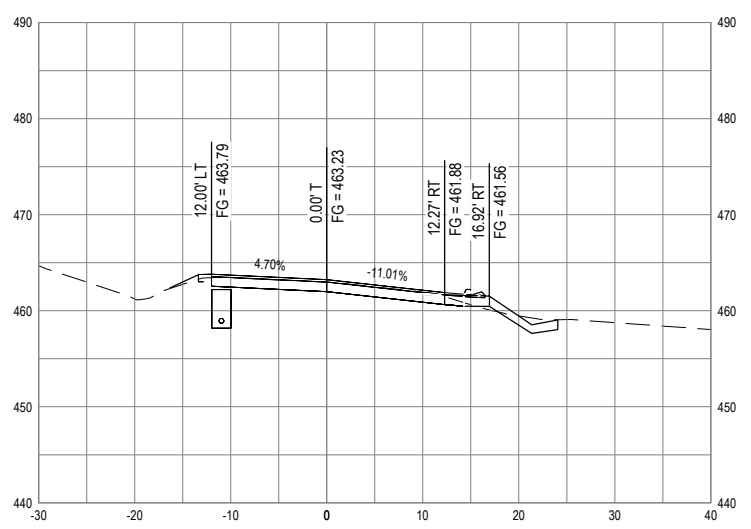


ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 0.95 DESIGN SECTIONS

SHEET 14 OF 55

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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 SURVEY CONTROL PLAN

SHEET 15 OF 55

**SURVEY CONTROL NOTES**

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR A ROAD FAILURE AT PM 0.95 OF ELK CREEK ROAD (CO. RD. NO. C6D060), HUMBOLDT COUNTY, CA. THIS SURVEY REFLECTS CONDITIONS ON THE SITE AT TIME OF SURVEY; FIELD WORK WAS PERFORMED ON APRIL 30, MAY 2 AND MAY 7, 2019.
2. UNDERGROUND UTILITIES RESEARCH WAS NOT PERFORMED. NO EVIDENCE OF UNDERGROUND UTILITIES WAS OBSERVED EXCEPT FOR STORM DRAINS SHOWN HEREON. SEE UNDERGROUND UTILITY NOTE HEREON.
3. 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 12 MINUTES 08 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 0.99992171 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 490.06' FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 50.
4. ONLY TREES GREATER THAN 12 INCHES IN DIAMETER WERE LOCATED, NUMEROUS OTHER SMALLER TREES EXIST AND ARE NOT SHOWN. TREES ARE GENERALLY LOCATED BREST HIGH. THEIR LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AS NOT ALL TREES ARE GROWING VERTICALLY.
5. NO BOUNDARY SURVEY WAS PERFORMED AS PART OF THIS PROJECT, THEREFORE PROPERTY LINES ARE NOT SHOWN HEREON. OWNERSHIP SHOWN IS BASED ON HUMBOLDT COUNTY GIS AND WAS NOT VERIFIED. IN THIS VICINITY THE PROPERTY LINE BETWEEN THE PARCELS SHOWN IS THE CENTERLINE OF THE ROAD.
6. THE RIGHT OF WAY SHOWN ON THIS SURVEY IS FORTY FEET IN WIDTH CENTERED ON THE EXISTING CENTERLINE OF THE ROAD. NO DEEDED, DEDICATED, OR ROAD REGISTER RIGHT OF WAY WAS FOUND IN THE COURSE OF RESEARCH FOR THIS PROJECT. RIGHT OF WAY IS THEREFORE AN IMPLIED COMMON LAW DEDICATION VIA LONGTIME PUBLIC USE AND MAINTENANCE BY THE COUNTY.

**GENERAL NOTES**

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

**UNDERGROUND UTILITY NOTES**

1. UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR.
2. 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.
3. CALL UNDERGROUND SERVICE ALERT (USA) 1-800-642-2444 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.

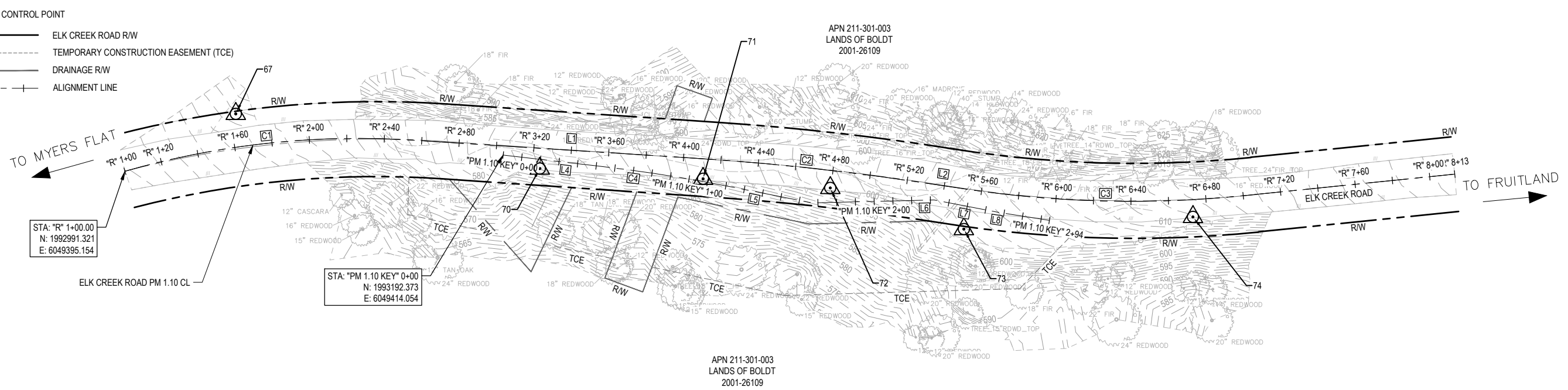
**LEGEND**

- △ TEMPORARY CONTROL POINT
- ELK CREEK ROAD R/W
- - - TEMPORARY CONSTRUCTION EASEMENT (TCE)
- - - DRAINAGE R/W
- - - ALIGNMENT LINE

POINT#	EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION
67	6049372.88	1993054.01	571.08	CP_SPK
70	6049423.84	1993210.77	583.97	CP_MAG
71	6049441.08	1993296.30	591.72	CP_MAG
72	6049455.15	1993362.89	598.40	CP_MAG
73	6049486.58	1993430.51	602.95	CP_SPK
74	6049496.76	1993552.48	610.95	CP_MAG

Segment	Type	Length	Radius	Direction	Start Station	End Station
C1	CURVE	154.70	450.00		"R" 1+00.00	"R" 2+54.70
L1	LINE	150.38	-	N11° 27' 41.24"E	"R" 2+54.70	"R" 4+05.07
C2	CURVE	120.67	1430.00		"R" 4+05.07	"R" 5+25.74
L2	LINE	25.53	-	N16° 17' 46.31"E	"R" 5+25.74	"R" 5+51.27
C3	CURVE	150.08	600.00		"R" 5+51.27	"R" 7+01.35
L3	LINE	112.09	-	N1° 57' 51.77"E	"R" 7+01.35	"R" 8+13.45

Segment	Type	Length	Radius	Direction	Start Station	End Station
L4	LINE	53.14	-	N14° 25' 39.20"E	"PM 1.10 KEY" 0+00.00	"PM 1.10 KEY" 0+53.14
C4	CURVE	69.31	858.03		"PM 1.10 KEY" 0+53.14	"PM 0.95 KEY" 1+22.45
L5	LINE	44.32	-	N19° 03' 21.04"E	"PM 1.10 KEY" 1+22.45	"PM 1.10 KEY" 1+66.77
L6	LINE	65.17	-	N6° 26' 05.99"E	"PM 1.10 KEY" 1+66.77	"PM 1.10 KEY" 2+31.94
L7	LINE	34.34	-	N18° 42' 21.62"E	"PM 1.10 KEY" 2+31.94	"PM 1.10 KEY" 2+66.28
L8	LINE	28.20	-	N16° 49' 15.23"E	"PM 1.10 KEY" 2+66.28	"PM 1.10 KEY" 2+94.47





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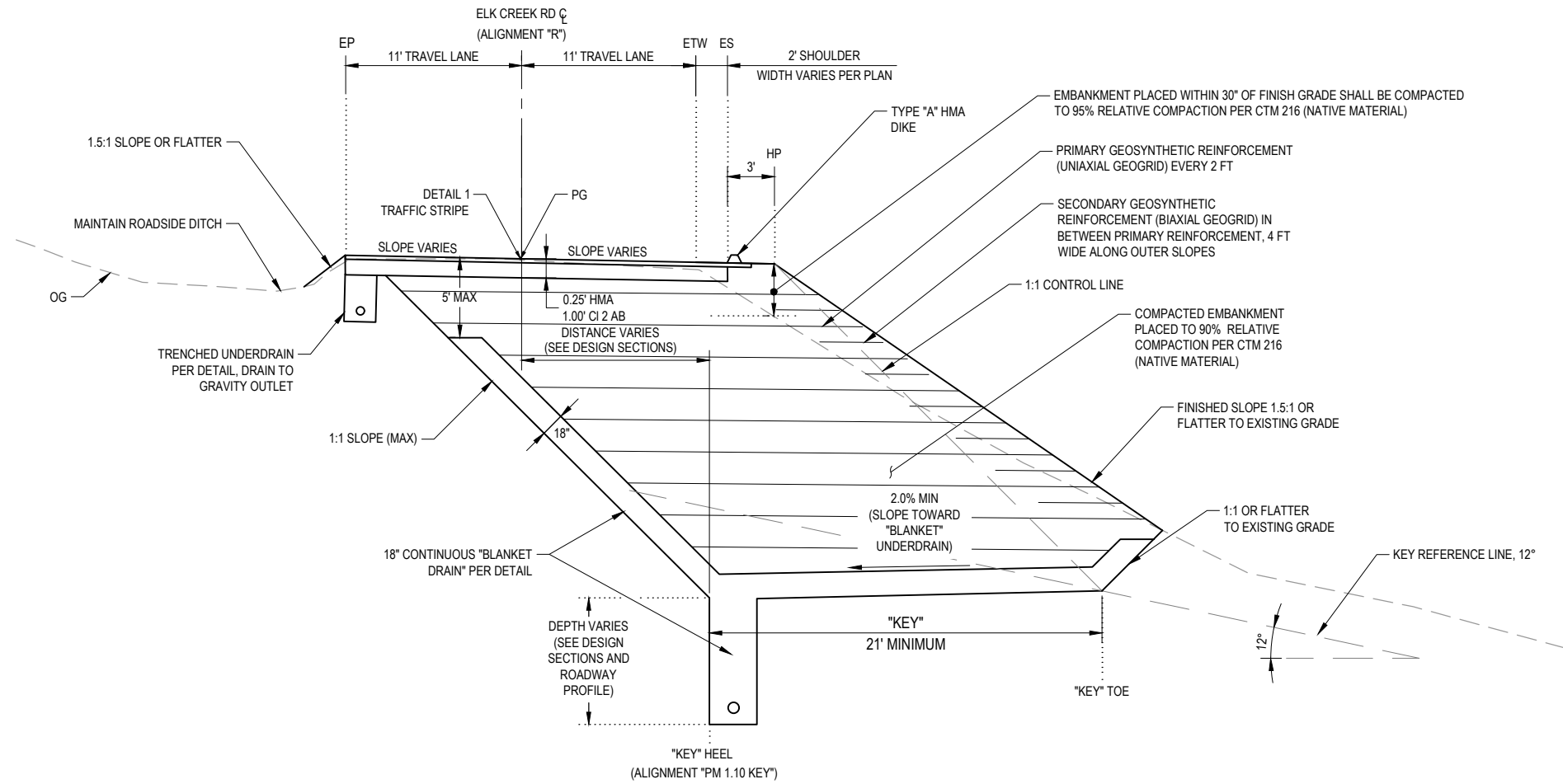


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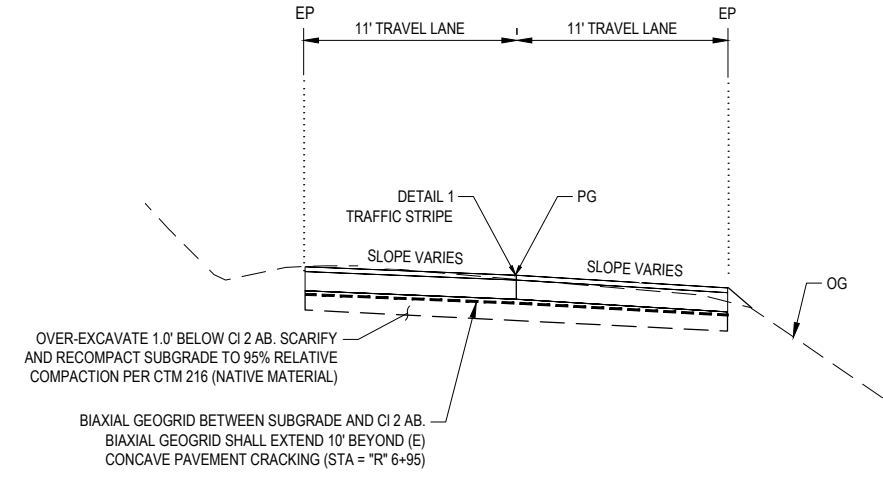
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 TYPICAL SECTIONS

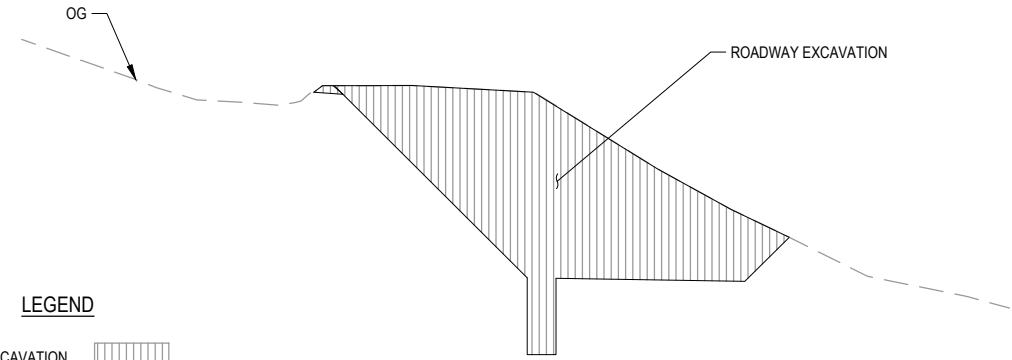
SHEET 16 OF 55



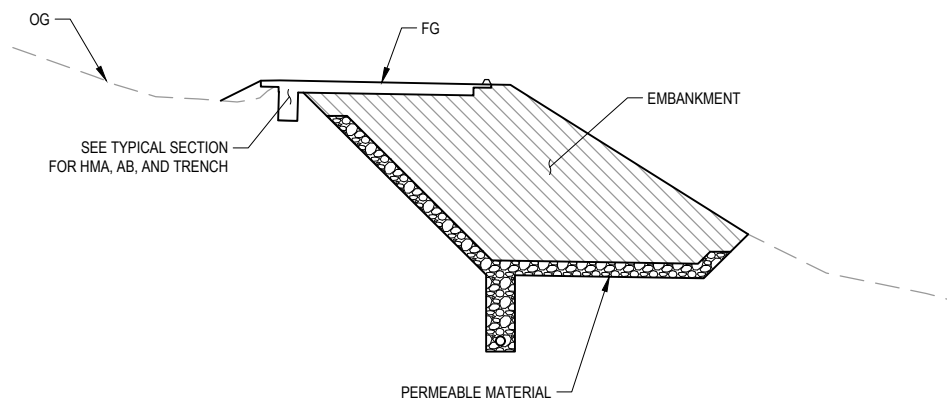
**TYPICAL SECTION ELK CREEK ROAD PM 1.10**  
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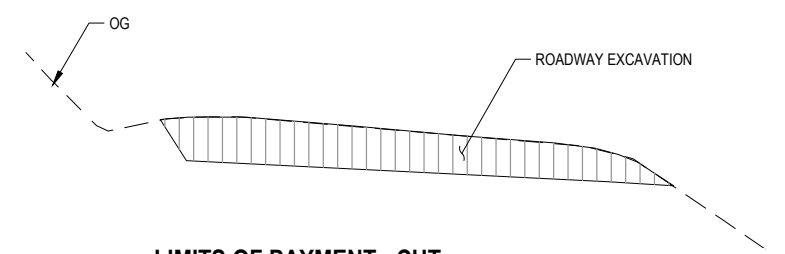
**TYPICAL SECTION ELK CREEK ROAD PM 1.10**  
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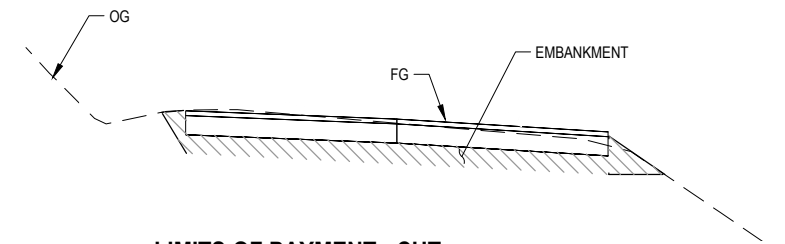
**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE STA "R" 2+80 - STA "R" 6+00



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE STA "R" 2+80 - STA "R" 6+00



**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE STA "R" 6+00 - STA "R" 6+95



**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE STA "R" 6+00 - STA "R" 6+95

**LEGEND**

ROADWAY EXCAVATION	
EMBANKMENT	
PERMEABLE MATERIAL	



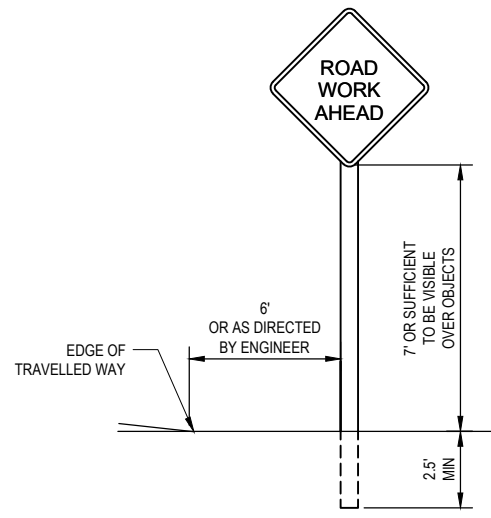
NOTE: THIS PLAN IS ACCURATE FOR STAGE CONSTRUCTION ONLY

**TRAFFIC THIS STAGE:**

TWO-WAY/ONE-LANE TRAFFIC AS SIGNAL CONTROLLED WITH CHANNELIZERS AND K-RAIL PLACED PER PLAN.

**NOTES:**

- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROLS DEVICES (CAMUTCD) AND CALTRANS 2018 STANDARD PLANS.
- EXACT SIGN AND SIGNAL LOCATIONS AND POSITIONS TO BE APPROVED BY THE ENGINEER.
- ALL WORK AND TEMPORARY TRAFFIC ROUTES SHALL BE CONFINED TO THE COUNTY R/W AND TCE'S OBTAINED BY THE COUNTY FOR THE PROJECT.
- ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
- ALTERNATIVE POST CONFIGURATION TO BE APPROVED BY COUNTY ENGINEER.
- REFER TO CAMUTCD FIGURE 6H-12 FOR LANE CLOSURE ON A TWO-LANE ROAD USING TRAFFIC CONTROL SIGNALS (TA-12).
- MAINTAIN ALL SIGNS THROUGHOUT DURATION OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF ONE OPEN TRAFFIC LANE THROUGH OR AROUND THE WORK AREA AT ALL TIMES. TRAFFIC LANE SHALL BE AT LEAST 10 FEET WIDE, AND SHALL HAVE A SLOPE IN THE DIRECTION OF TRAVEL OF NO MORE THAN 15%. LANE SURFACE SHALL BE PAVED, FIRM AND SMOOTH, AND FREE OF HOLES AND RUTS SO AS NOT TO IMPEDE TRAFFIC.
- THE MINIMUM PAVED SECTION FOR THE DETOUR ROUTE SHALL BE 0.5' C12AB.
- PROVIDE FLAGGERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION.



TYPICAL STATIONARY CONSTRUCTION AREA SIGNS



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ROAD NAME: ELK CREEK ROAD  
ROAD NO: C6D060  
MILE POST: 0.95 - 2.42  
PROJECT NO.: ER-32L(237)  
CONTRACT NO.: 217236  
PLOT DATE: 05/20/2022

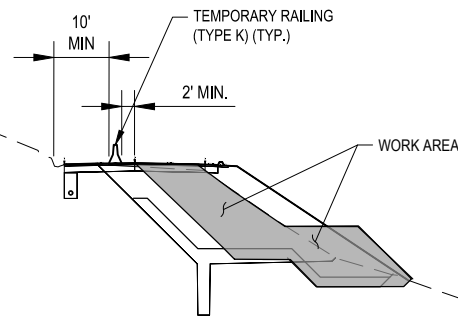
DESIGN SECTION ENGINEERING  
DESIGNED BY: C. HAYES  
DRAWN BY: C. HAYES  
REVIEWED BY: J. SVEHLA  
APPROVED BY: J. SVEHLA

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
TRAFFIC CONTROL, STAGING/STOCKPILE LOCATIONS AND POTENTIAL STAGE CONSTRUCTION 1 OF 2

SHEET 17 OF 55

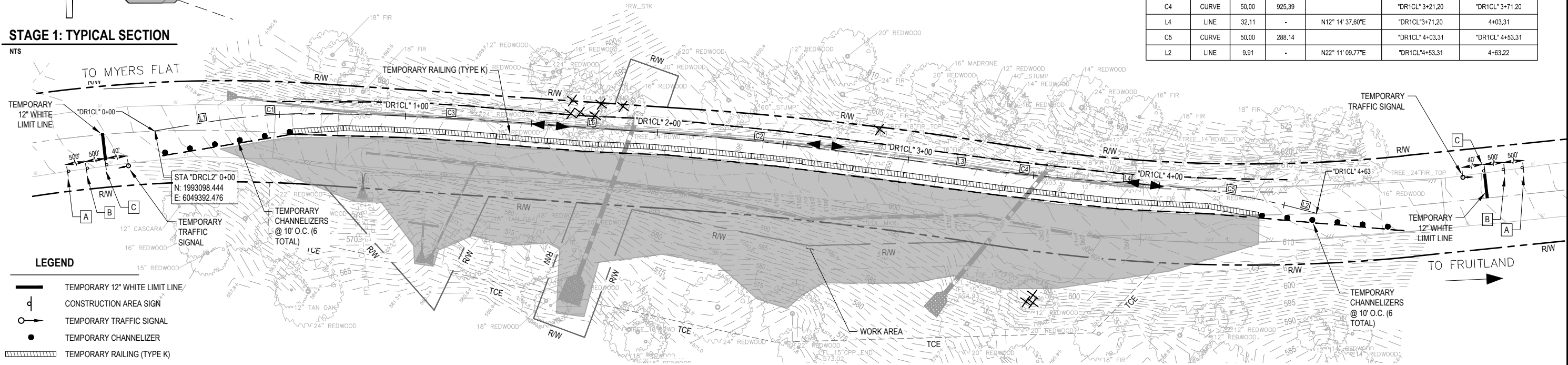
**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

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



**STAGE 1: TYPICAL SECTION**

NTS



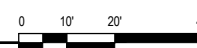
**LEGEND**

- TEMPORARY 12' WHITE LIMIT LINE
- CONSTRUCTION AREA SIGN
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY CHANNELIZER
- TEMPORARY RAILING (TYPE K)
- WORK AREA
- TRAVEL DIRECTION(S)

**STAGE 1 & 3 DETOUR ROUTE CONSTRUCTION CENTERLINE GEOMETRY - "DR1CL" ALIGNMENT**

Segment	Type	Length	Radius	Direction	Start Station	End Station
L1	LINE	19.70	-	N1° 39' 40.70"W	"DR1CL" 0+00.00	0+19.70
C1	CURVE	53.60	271.39		"DR1CL" 0+19.70	"DR1CL" 0+73.30
L5	LINE	19.72	-	N9° 39' 19.02"E	"DR1CL" 0+73.30	0+93.03
C3	CURVE	50.00	1204.73		"DR1CL" 0+93.03	"DR1CL" 1+43.03
L6	LINE	61.65	-	N12° 01' 59.68"E	"DR1CL" 1+43.03	2+04.68
C2	CURVE	71.19	1233.72		"DR1CL" 2+04.68	"DR1CL" 2+75.88
L3	LINE	45.32	-	N15° 20' 22.32"E	"DR1CL" 2+75.88	3+21.20
C4	CURVE	50.00	925.39		"DR1CL" 3+21.20	"DR1CL" 3+71.20
L4	LINE	32.11	-	N12° 14' 37.60"E	"DR1CL" 3+71.20	4+03.31
C5	CURVE	50.00	288.14		"DR1CL" 4+03.31	"DR1CL" 4+53.31
L2	LINE	9.91	-	N22° 11' 09.77"E	"DR1CL" 4+53.31	4+63.22

**STAGE CONSTRUCTION - STAGE 1**



NOTE: THIS PLAN IS ACCURATE FOR STAGE CONSTRUCTION ONLY



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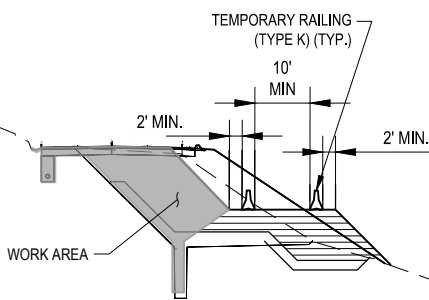
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ROAD NAME: ELK CREEK ROAD  
ROAD NO: C6D060  
MILE POST: 0.95 - 2.42  
PROJECT NO.: ER-32L(237)  
CONTRACT NO.: 217236  
PLOT DATE: 05/20/2022

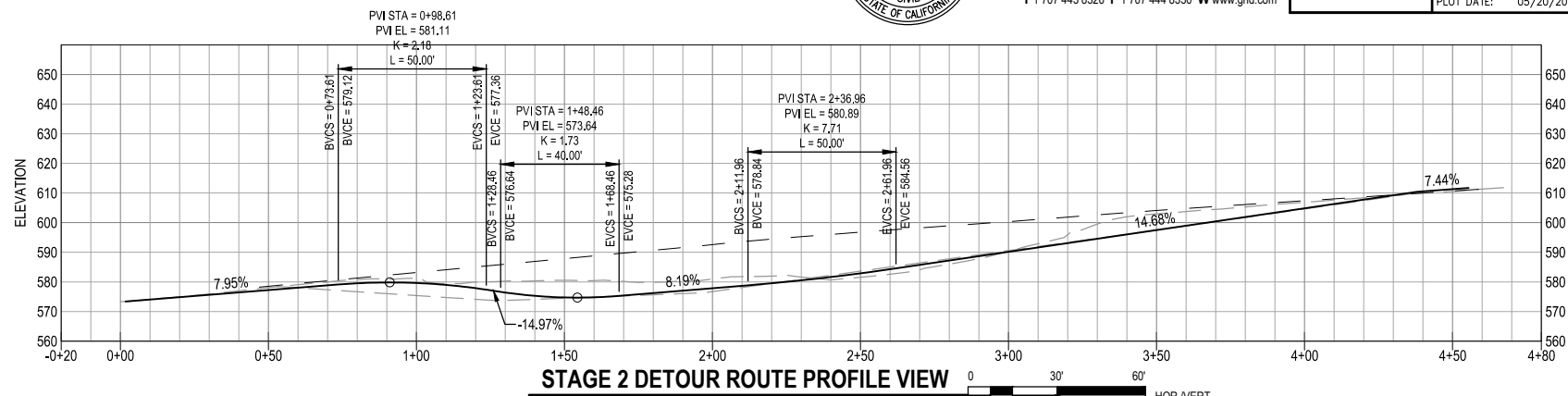
DESIGN SECTION ENGINEERING  
DESIGNED BY: C. HAYES  
DRAWN BY: C. HAYES  
REVIEWED BY: J. SVEHLA  
APPROVED BY: J. SVEHLA

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
PM 1.10 TRAFFIC CONTROL, STAGING/STOCKPILE LOCATIONS AND POTENTIAL STAGE CONSTRUCTION 2 OF 2

SHEET 18 OF 55

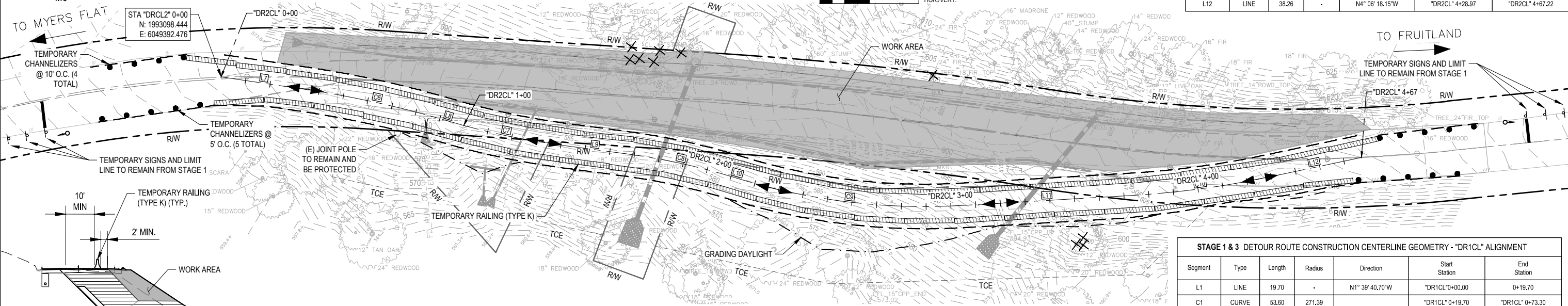


STAGE 2: TYPICAL SECTION NTS



STAGE 2 DETOUR ROUTE PROFILE VIEW

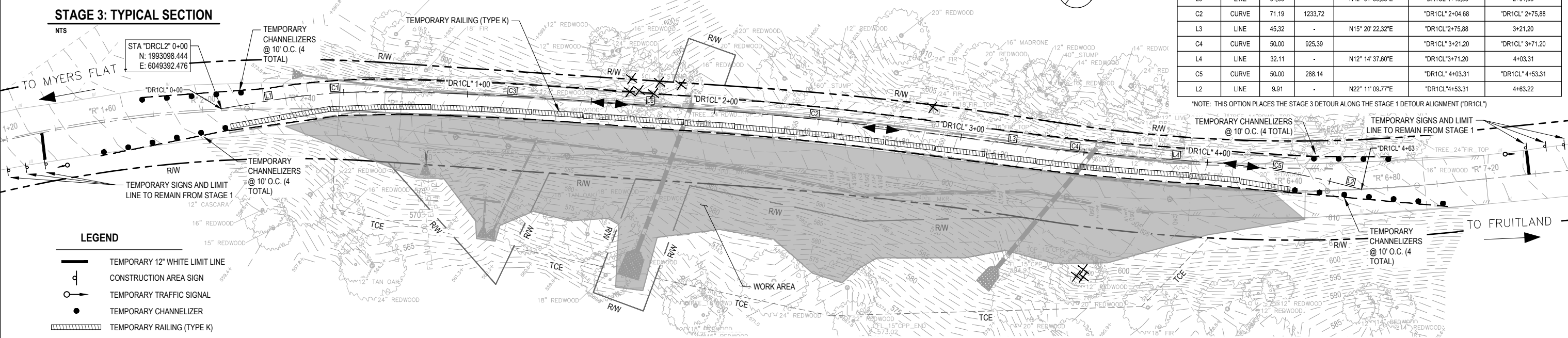
STAGE 2 DETOUR ROUTE CONSTRUCTION CENTERLINE GEOMETRY - "DR2CL" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L7	LINE	34.51	-	N16° 16' 10.78"E	"DR2CL" 0+00.00	"DR2CL" 0+34.51
C6	CURVE	57.90	418.12		"DR2CL" 0+34.51	"DR2CL" 0+92.41
L8	LINE	1.27	-	N24° 12' 14.86"E	"DR2CL" 0+92.41	"DR2CL" 0+93.68
C7	CURVE	47.24	306.14		"DR2CL" 0+93.68	"DR2CL" 1+40.93
L9	LINE	25.68	-	N15° 21' 44.92"E	"DR2CL" 1+40.93	"DR2CL" 1+66.61
C8	CURVE	44.24	268.18		"DR2CL" 1+66.61	"DR2CL" 2+10.85
L10	LINE	2.41	-	N24° 48' 51.54"E	"DR2CL" 2+10.85	"DR2CL" 2+13.26
C9	CURVE	91.27	256.52		"DR2CL" 2+13.26	"DR2CL" 3+04.52
L11	LINE	68.68	-	N4° 25' 46.74"E	"DR2CL" 3+04.52	"DR2CL" 3+73.21
C10	CURVE	55.76	374.34		"DR2CL" 3+73.21	"DR2CL" 4+28.97
L12	LINE	38.26	-	N4° 06' 18.15"W	"DR2CL" 4+28.97	"DR2CL" 4+67.22



STAGE CONSTRUCTION - STAGE 2

STAGE 1 & 3 DETOUR ROUTE CONSTRUCTION CENTERLINE GEOMETRY - "DR1CL" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L1	LINE	19.70	-	N1° 39' 40.70"W	"DR1CL" 0+00.00	0+19.70
C1	CURVE	53.60	271.39		"DR1CL" 0+19.70	"DR1CL" 0+73.30
L5	LINE	19.72	-	N9° 39' 19.02"E	"DR1CL" 0+73.30	0+93.03
C3	CURVE	50.00	1204.73		"DR1CL" 0+93.03	"DR1CL" 1+43.03
L6	LINE	61.65	-	N12° 01' 59.68"E	"DR1CL" 1+43.03	2+04.68
C2	CURVE	71.19	1233.72		"DR1CL" 2+04.68	"DR1CL" 2+75.88
L3	LINE	45.32	-	N15° 20' 22.32"E	"DR1CL" 2+75.88	3+21.20
C4	CURVE	50.00	925.39		"DR1CL" 3+21.20	"DR1CL" 3+71.20
L4	LINE	32.11	-	N12° 14' 37.60"E	"DR1CL" 3+71.20	4+03.31
C5	CURVE	50.00	288.14		"DR1CL" 4+03.31	"DR1CL" 4+53.31
L2	LINE	9.91	-	N22° 11' 09.77"E	"DR1CL" 4+53.31	4+63.22

\*NOTE: THIS OPTION PLACES THE STAGE 3 DETOUR ALONG THE STAGE 1 DETOUR ALIGNMENT ("DR1CL")



STAGE CONSTRUCTION - STAGE 3

LEGEND

- TEMPORARY 12' WHITE LIMIT LINE
- CONSTRUCTION AREA SIGN
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY CHANNELIZER
- TEMPORARY RAILING (TYPE K)
- WORK AREA
- TRAVEL DIRECTION(S)



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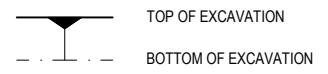
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ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 1.10 KEY EXCAVATION PLAN</b>

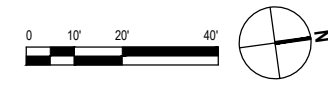
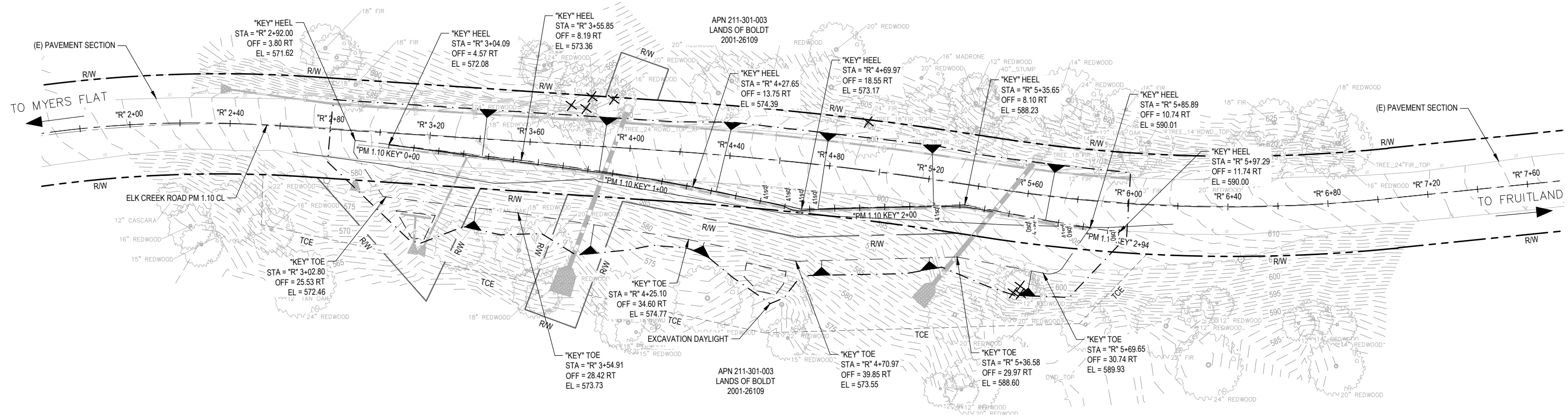
SHEET 19 OF 55

**LEGEND**



**NOTES:**

- LIMITS OF GRADING DOES NOT INCLUDE REMOVAL OR INSTALLATION OF STORM DRAIN PIPE WHERE SHOWN ON THE SITE PLAN.
- ELEVATIONS SHOWN ON THIS SHEET REPRESENT BOTTOM OF DRAINAGE BLANKET AND DO NOT ACCOUNT FOR OVER EXCAVATION (SEE TYPICAL SECTIONS).



NOTE: LIMITS OF GRADING DOES NOT INCLUDE REMOVAL OR INSTALLATION OF STORM DRAIN PIPE WHERE SHOWN ON THE SITE PLAN.



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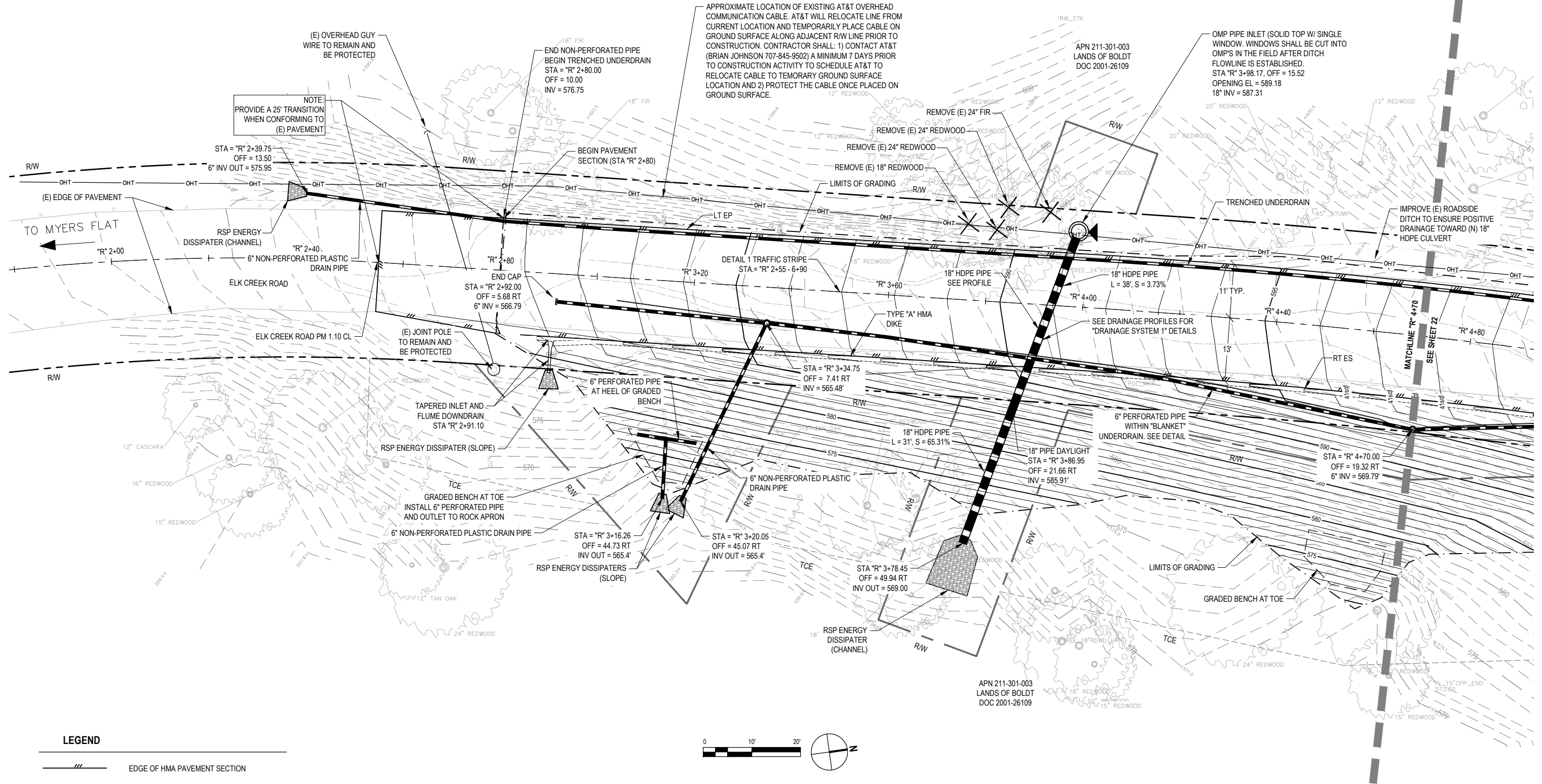


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PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
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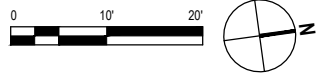
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 ROADWAY PLAN - STA "R" 2+90 TO STA "R" 4+70

SHEET 20 OF 55



**LEGEND**

	EDGE OF HMA PAVEMENT SECTION
	TYPE "A" HMA DIKE
	LIMITS OF GRADING
	RSP ENERGY DISSIPATER
	STORM DRAIN PIPE
	REMOVE TREE



APN 211-301-003  
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PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
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PLOT DATE: 05/20/2022	

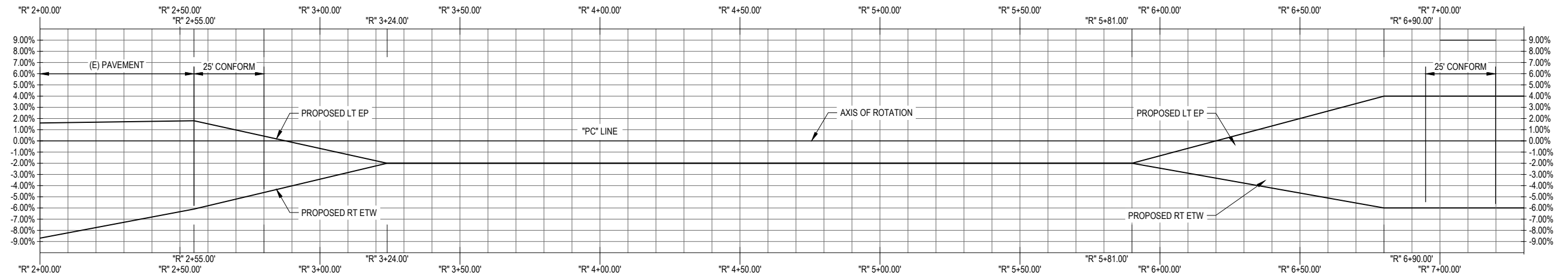
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 DRAINAGE PROFILE, ROADWAY PROFILE AND SUPERELEVATION

SHEET 22 OF 55

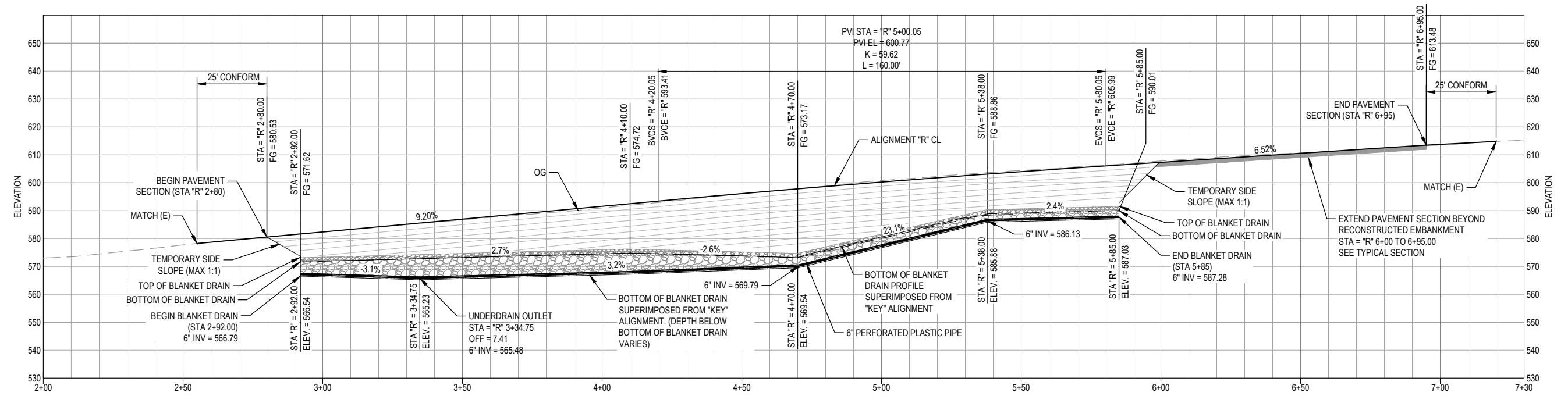
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 2+80	4.20%	580.99	580.53	580.02	-4.61%
"R" 3+24	-2.00%	584.36	584.58	584.36	-2.00%
"R" 5+90	-2.00%	606.42	606.64	606.42	-2.00%
"R" 6+80	4.00%	612.94	612.50	611.84	-6.00%
"R" 6+95	4.00%	613.92	613.48	612.82	-6.00%

Note: Negative cross slopes indicate downwards sloping away from centerline

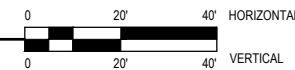
### ROADWAY ELEVATIONS



ELK CREEK ROAD PM 1.10 SUPERELEVATION



ELK CREEK ROAD PM 1.10 PROFILE VIEW





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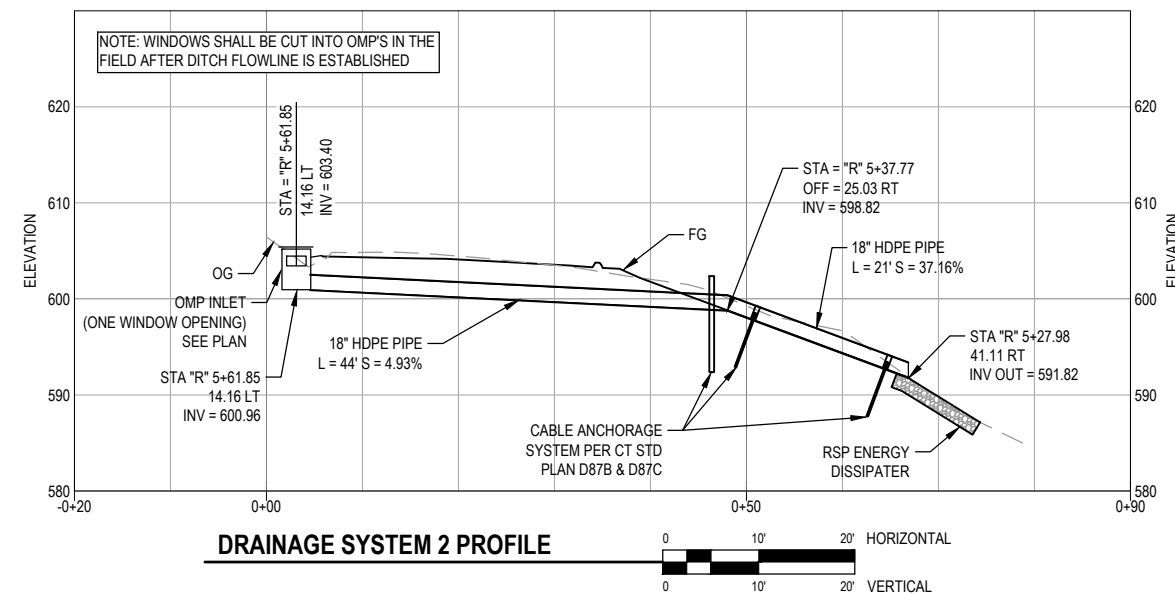
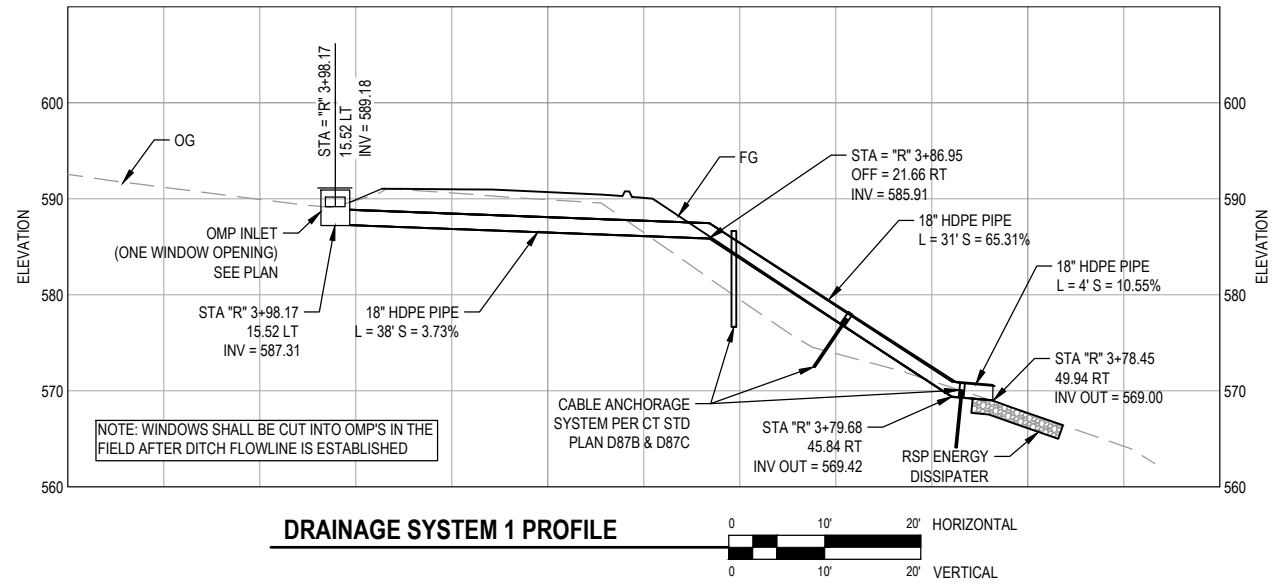
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ROAD NO: C6D060
MILE POST: 0.95 - 2.42
PROJECT NO.: ER-32L0(237)
CONTRACT NO.: 217236
PLOT DATE: 05/20/2022

DESIGN SECTION ENGINEERING
DESIGNED BY: C. HAYES
DRAWN BY: C. HAYES
REVIEWED BY: J. SVEHLA
APPROVED BY: J. SVEHLA

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 DRAINAGE PROFILES

SHEET 23 OF 55



NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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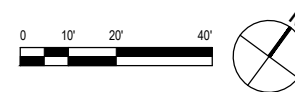
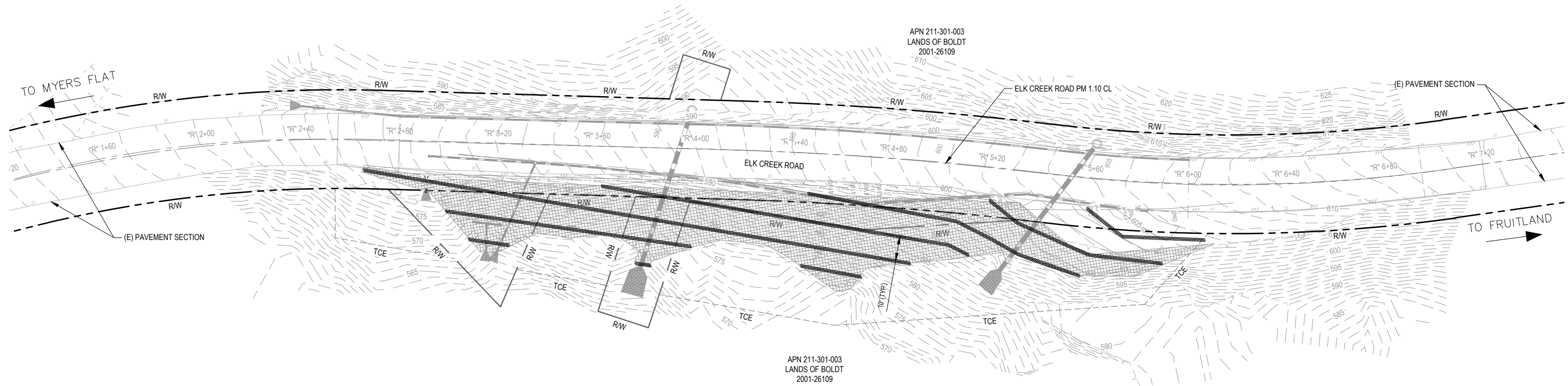
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CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 1.10 EROSION CONTROL PLAN</b>

SHEET 24 OF 55

**GENERAL NOTES**

1. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE, ENTERS THE EXISTING STORMWATER SYSTEMS, OR ENTERS SENSITIVE AREAS. BMPs ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
2. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.



**LEGEND**

- DRY SEED UNDER ROLLED EROSION CONTROL PRODUCT
- FIBER ROLLS





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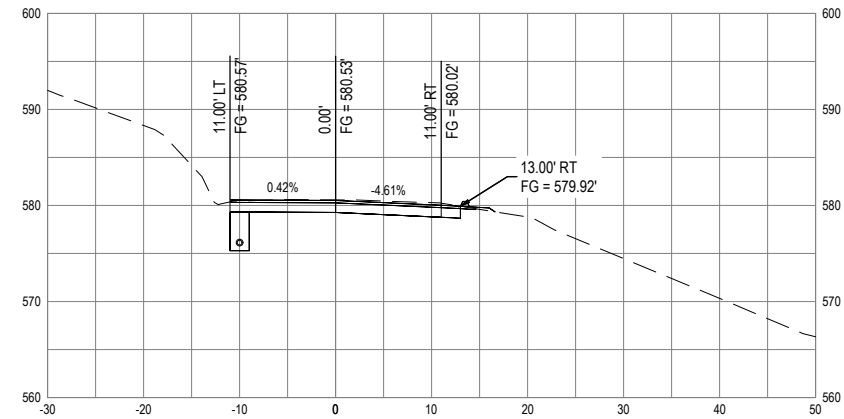
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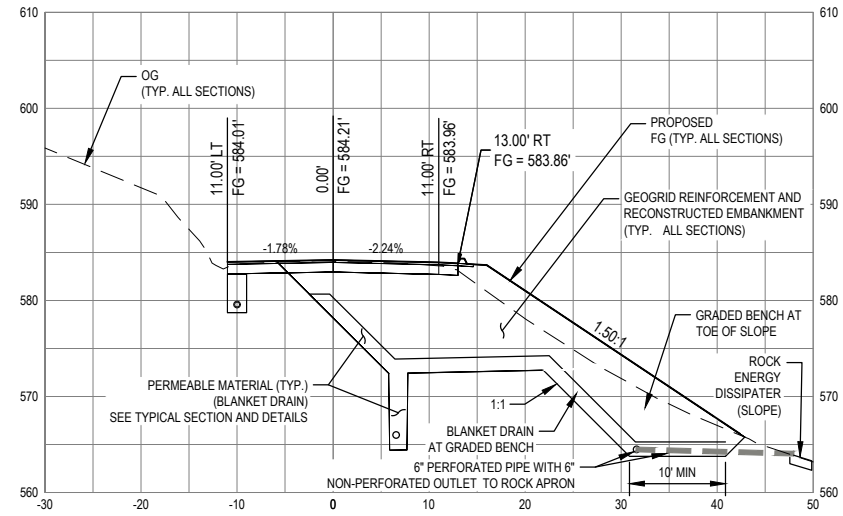
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY:
MILE POST: 0.95 - 2.42	DRAWN BY:
PROJECT NO.: ER-32L(237)	REVIEWED BY:
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 DESIGN SECTIONS - 1 OF 2

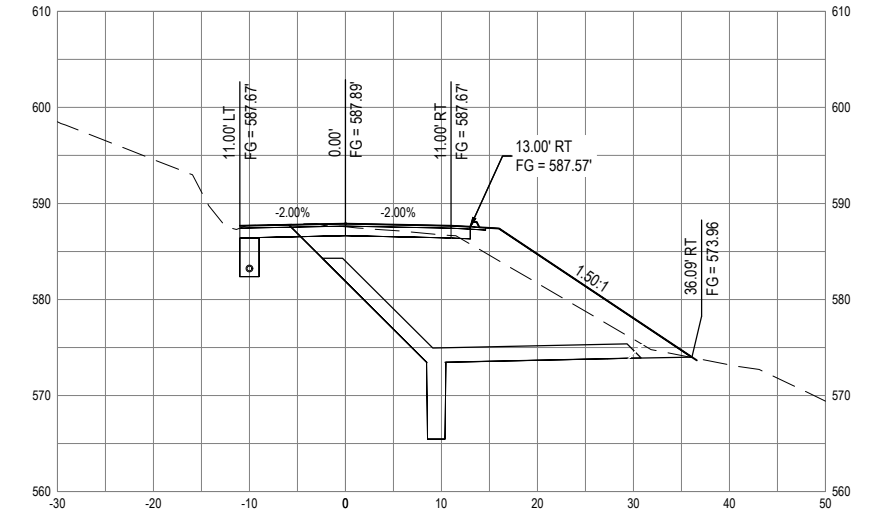
SHEET 25 OF 55



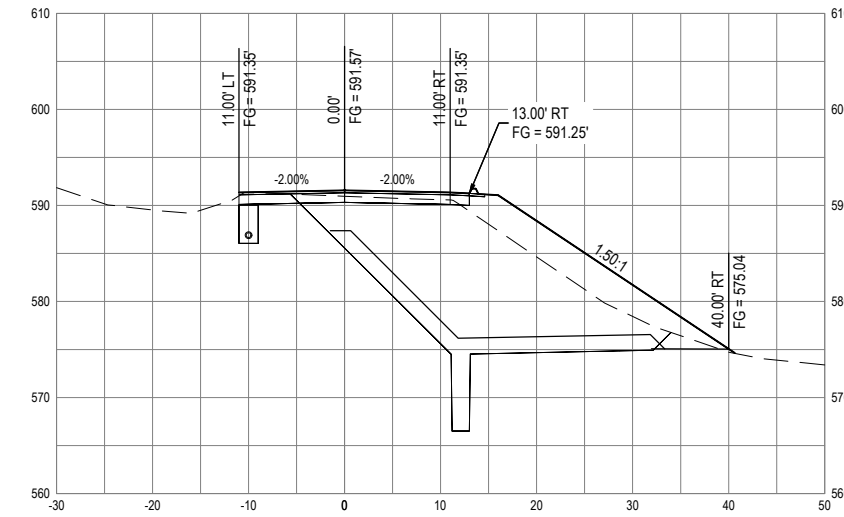
SECTION STA "R" 2+80



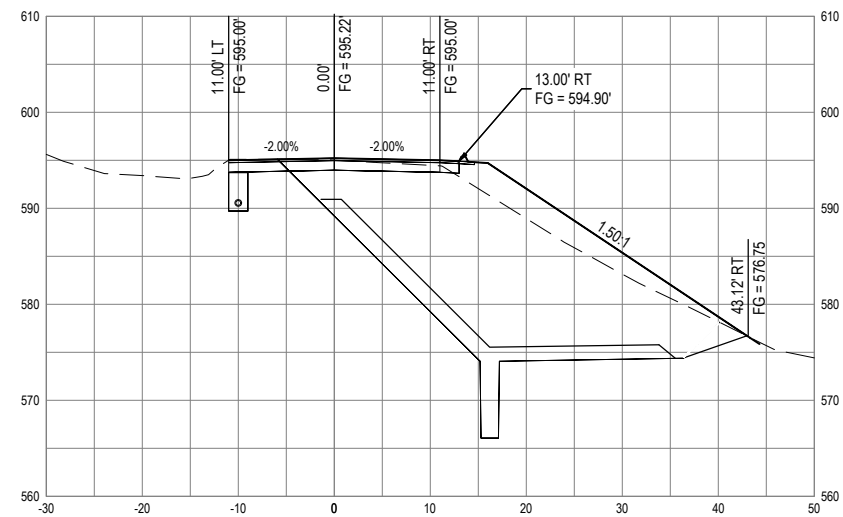
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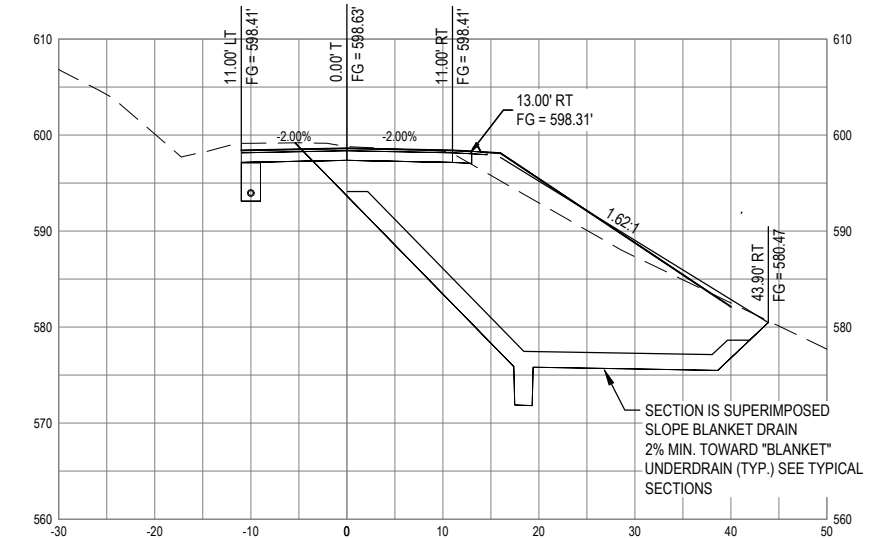
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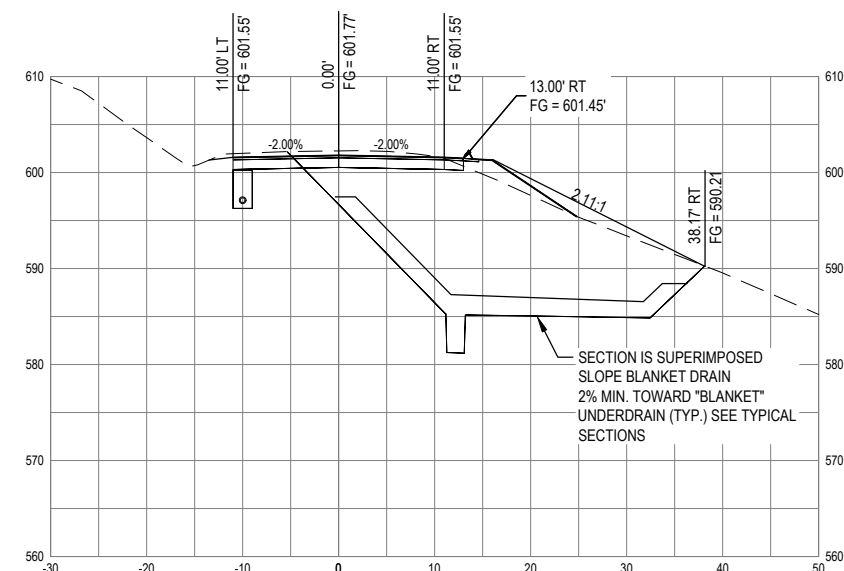
SECTION STA "R" 4+00



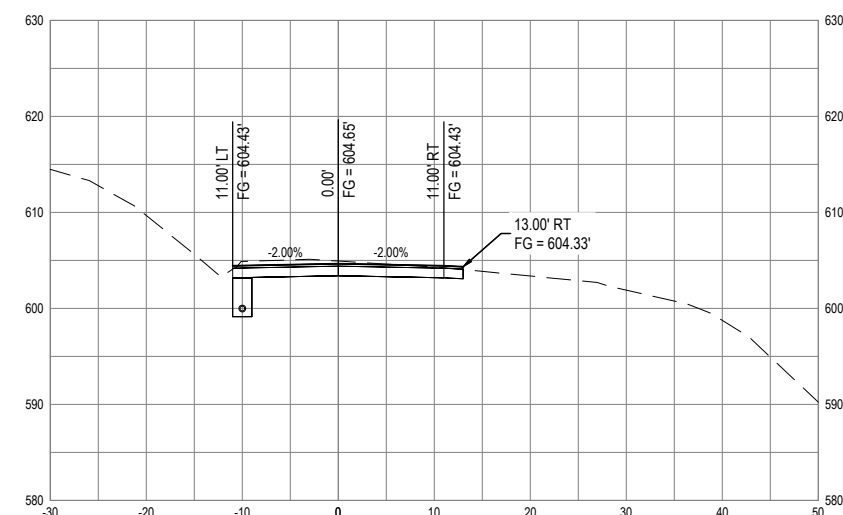
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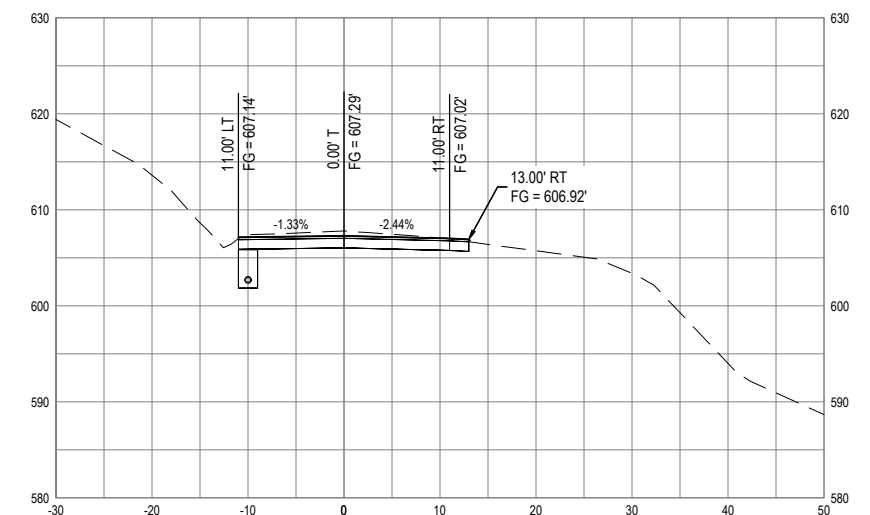
SECTION STA "R" 4+80



SECTION STA "R" 5+20



SECTION STA "R" 5+60



SECTION STA "R" 6+00



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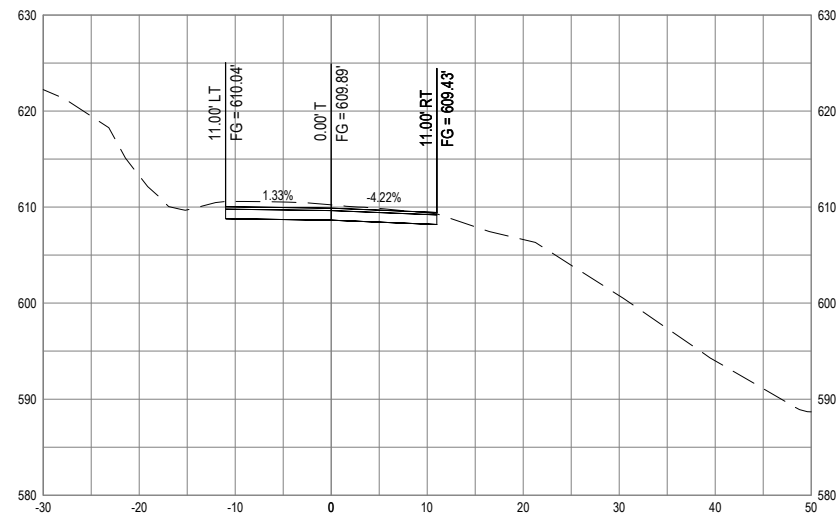


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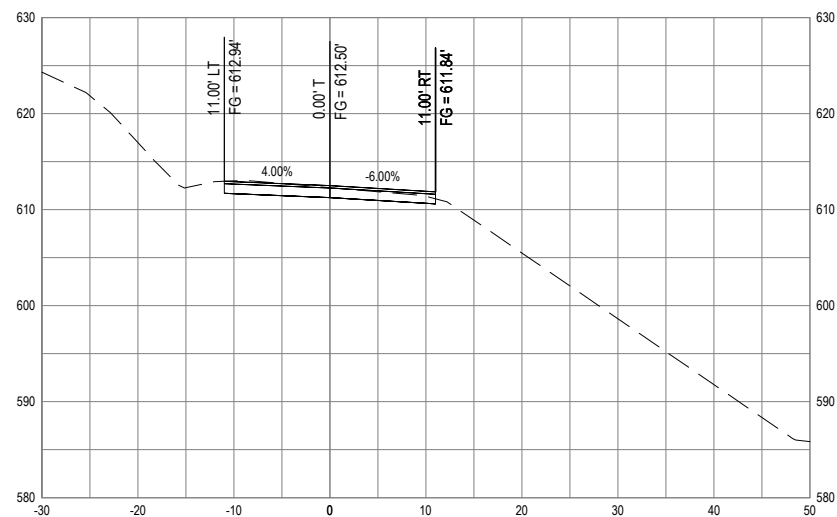
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY:
MILE POST: 0.95 - 2.42	DRAWN BY:
PROJECT NO.: ER-32L(237)	REVIEWED BY:
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.10 DESIGN SECTIONS - 2 OF 2

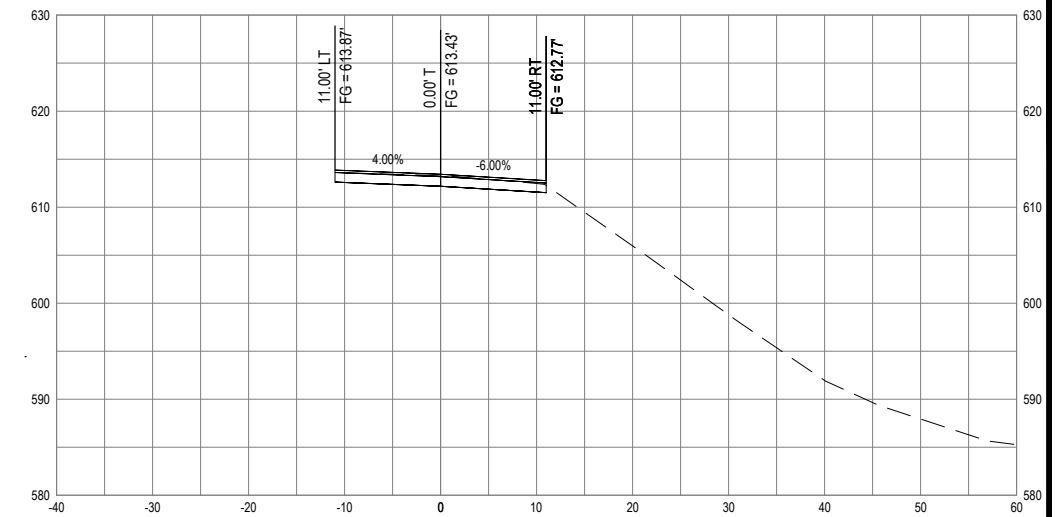
SHEET 26 OF 55



SECTION STA "R" 6+40



SECTION STA "R" 6+80



SECTION STA "R" 6+95



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ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

<b>COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS</b>
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 1.85 - 2.00 SURVEY CONTROL PLAN</b>

SHEET  
27  
OF  
55

**SURVEY CONTROL NOTES**

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR A ROAD FAILURE AT PM 1.85 OF ELK CREEK ROAD (CO. RD. NO. C6D060), HUMBOLDT COUNTY, CA. THIS SURVEY REFLECTS CONDITIONS ON THE SITE AT TIME OF SURVEY; FIELD WORK WAS PERFORMED BETWEEN APRIL 18 AND APRIL 30, 2019.
2. UNDERGROUND UTILITIES RESEARCH WAS NOT PERFORMED. NO EVIDENCE OF UNDERGROUND UTILITIES WAS OBSERVED. SEE UNDERGROUND UTILITY NOTE HEREON.
3. 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 (ELK CREEK PM 2.00) WAS HELD FOR HORIZONTAL POSITIONS SHOWN HEREON. THE MAPPING ANGLE IS 1 DEGREE 11 MINUTES 52 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 0.99990135 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR ARE TAKEN AT CONTROL POINT NUMBER 50, A 60D NAIL. ELEVATIONS ARE NAVD 88 DATUM BASED ON OPUS SOLUTION UTILIZING THE GEOID 12B MODEL. AN ELEVATION OF 879.76' FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 50.
4. ONLY TREES GREATER THAN 12 INCHES IN DIAMETER WERE LOCATED, NUMEROUS OTHER SMALLER TREES EXIST AND ARE NOT SHOWN. TREES ARE GENERALLY LOCATED BREST HIGH. THEIR LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AS NOT ALL TREES ARE GROWING VERTICALLY.
5. NO BOUNDARY SURVEY WAS PERFORMED AS PART OF THIS PROJECT, THEREFORE PROPERTY LINES ARE NOT SHOWN HEREON.
6. THE RIGHT OF WAY SHOWN ON THIS SURVEY IS FORTY FEET IN WIDTH CENTERED ON THE EXISTING CENTERLINE OF THE ROAD. NO DEEDED, DEDICATED, OR ROAD REGISTER RIGHT OF WAY WAS FOUND IN THE COURSE OF RESEARCH FOR THIS PROJECT. RIGHT OF WAY IS THEREFORE AN IMPLIED COMMON LAW DEDICATION VIA LONGTIME PUBLIC USE AND MAINTENANCE BY THE COUNTY.

**GENERAL NOTES**

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

**UNDERGROUND UTILITY NOTES**

1. UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR.
2. 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.
3. CALL UNDERGROUND SERVICE ALERT (USA) 1-800-642-2444 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.

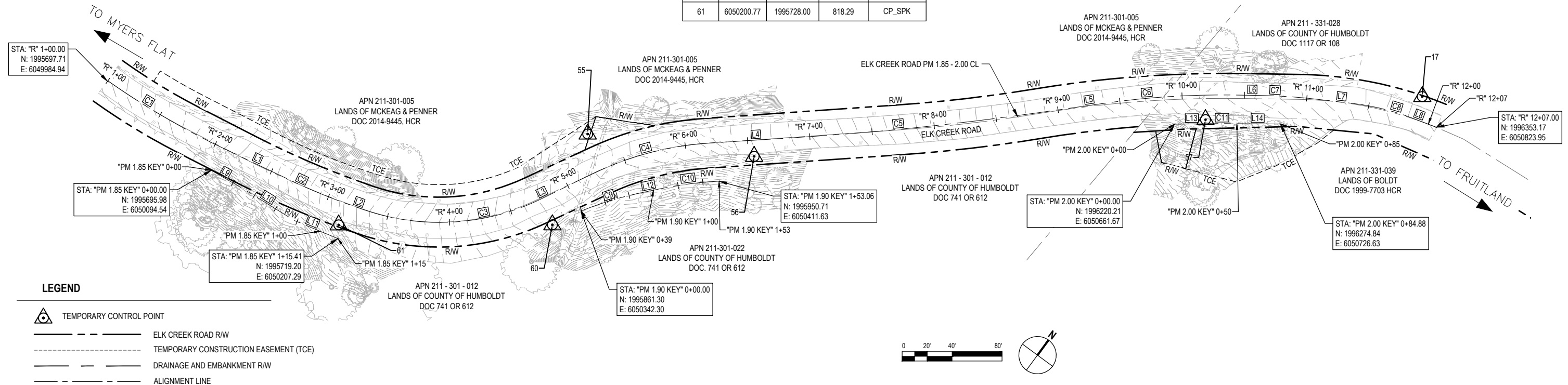
Segment	Type	Length	Radius	Direction	Start Station	End Station
C1	CURVE	107.65	640.00		"R" 1+00.00	"R" 2+07.65
L1	LINE	59.27	-	N75° 30' 45.12"E	"R" 2+07.65	"R" 2+66.92
C2	CURVE	52.33	475.77		"R" 2+66.92	"R" 3+19.25
L2	LINE	10.65	-	N69° 12' 36.29"E	"R" 3+19.25	"R" 3+29.90
C3	CURVE	146.52	185.02		"R" 3+29.90	"R" 4+76.42
L3	LINE	43.41	-	N23° 50' 11.67"E	"R" 4+76.42	"R" 5+19.83
C4	CURVE	100.50	255.00		"R" 5+19.83	"R" 6+20.33
L4	LINE	65.51	-	N46° 25' 06.13"E	"R" 6+20.33	"R" 6+85.84
C5	CURVE	197.83	2515.12		"R" 6+85.84	"R" 8+83.67
L5	LINE	56.29	-	N41° 54' 41.90"E	"R" 8+83.67	"R" 9+39.96
C6	CURVE	99.14	638.97		"R" 9+39.96	"R" 10+39.10
L6	LINE	22.16	-	N50° 48' 04.99"E	"R" 10+39.10	"R" 10+61.27
C7	CURVE	46.82	456.31		"R" 10+61.27	"R" 11+08.08
L7	LINE	29.01	-	N56° 40' 47.86"E	"R" 11+08.08	"R" 11+37.10
C8	CURVE	47.88	196.01		"R" 11+37.10	"R" 11+84.98
L8	LINE	22.02	-	N70° 40' 32.98"E	"R" 11+84.98	"R" 12+07.00

Segment	Type	Length	Radius	Direction	Start Station	End Station
L9	LINE	31.24	-	N80° 09' 22.91"E	"PM 1.85 KEY" 0+00.00	"PM 1.85 KEY" 0+31.24
L10	LINE	46.92	-	N81° 46' 53.84"E	"PM 1.85 KEY" 0+31.24	"PM 1.85 KEY" 0+78.17
L11	LINE	37.24	-	N72° 32' 26.58"E	"PM 1.85 KEY" 0+78.17	"PM 1.85 KEY" 1+15.41

Segment	Type	Length	Radius	Direction	Start Station	End Station
C9	CURVE	49.90	282.60		"PM 1.90 KEY" 0+39.47	"PM 1.90 KEY" 0+89.36
L12	LINE	14.76	-	N38° 05' 34.75"E	"PM 1.90 KEY" 0+89.36	"PM 1.90 KEY" 1+04.13
C10	CURVE	48.94	314.87		"PM 1.90 KEY" 1+04.13	"PM 1.90 KEY" 1+53.06

Segment	Type	Length	Radius	Direction	Start Station	End Station
L13	LINE	27.91	-	N49° 14' 58.74"E	"PM 2.00 KEY" 0+00.00	"PM 2.00 KEY" 0+27.91
C11	CURVE	20.31	934.02		"PM 2.00 KEY" 0+27.91	"PM 2.00 KEY" 0+48.22
L14	LINE	36.66	-	N50° 29' 43.17"E	"PM 2.00 KEY" 0+48.22	"PM 2.00 KEY" 0+84.88

POINT#	EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION
17	6050799.45	1996364.72	879.76	CP_60D
55	6050306.71	1995912.01	838.69	CP_SPK
56	6050420.37	1995983.98	844.33	CP_SPK
57	6050678.37	1996238.89	868.14	CP_SPK
58	6051095.59	1996402.13	900.31	CP_60D
59	6051408.74	1996227.96	929.49	CP_SPK
60	6050331.84	1995838.06	833.29	CP_SPK
61	6050200.77	1995728.00	818.29	CP_SPK





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ROAD NAME: ELK CREEK ROAD  
ROAD NO: C6D060  
MILE POST: 0.95 - 2.42  
PROJECT NO.: ER-32L0(237)  
CONTRACT NO.: 217236  
PLOT DATE: 05/20/2022

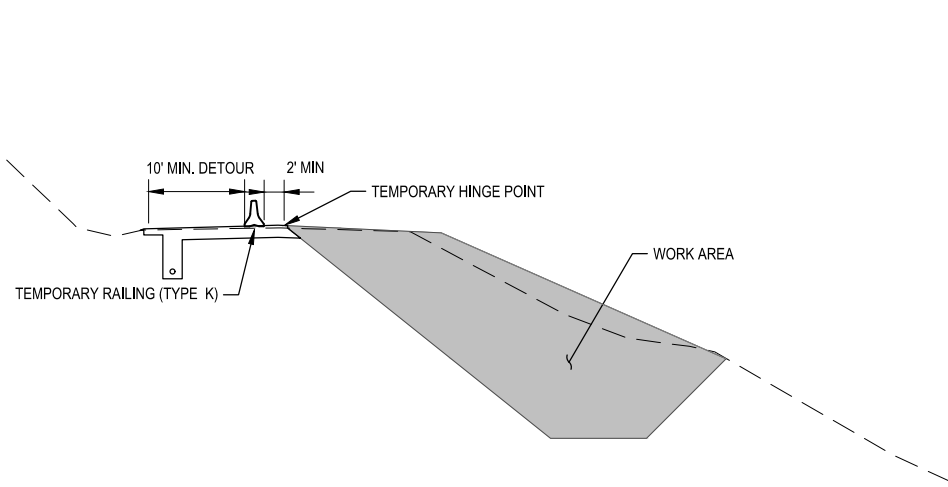
DESIGN SECTION ENGINEERING  
DESIGNED BY: C. HAYES  
DRAWN BY: C. HAYES  
REVIEWED BY: J. SVEHLA  
APPROVED BY: J. SVEHLA

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
PM 1.85-2.00 TRAFFIC CONTROL PLAN,  
STAGING/STOCKPILE LOCATIONS AND  
STAGE CONSTRUCTION

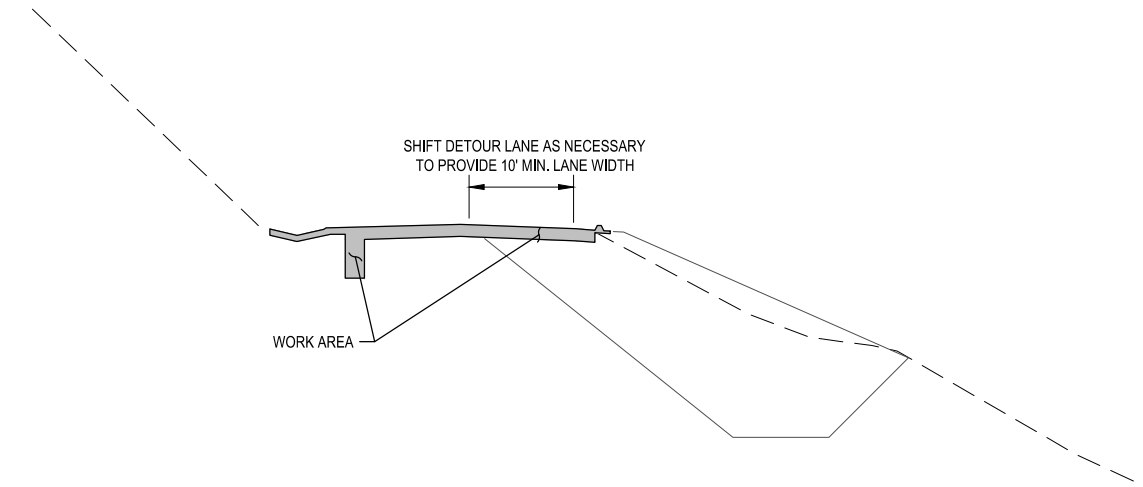
SHEET  
28  
OF  
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**CONSTRUCTION SIGN NOTES:**

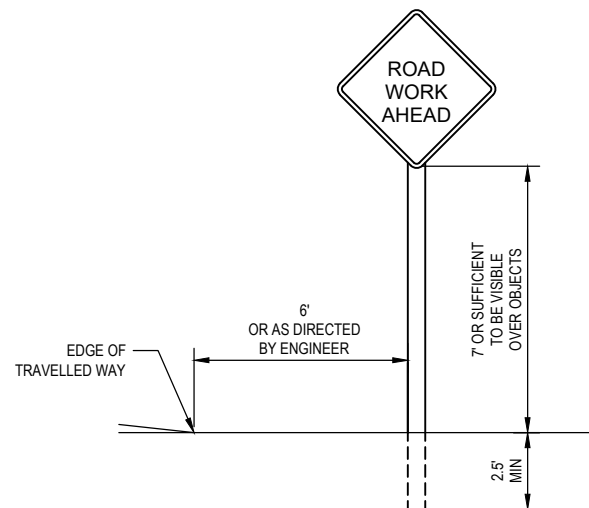
1. EXACT SIGN LOCATIONS AND POSITIONS TO BE APPROVED BY THE ENGINEER.
2. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
3. ALTERNATIVE POST CONFIGURATION TO BE APPROVED BY COUNTY ENGINEER.
4. REFER TO TABLE 6H-3 RECOMMENDED ADVANCE WARNING SIGN SPACING FOR RURAL ROAD TYPE.
5. REFER TO FIGURE 6H-11 FOR LANE CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (TA-11).
6. REFER TO FIGURE 6H-12 FOR LANE CLOSURE ON A TWO-LANE ROAD USING TRAFFIC CONTROL SIGNALS (TA-12)
7. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD) AND CALTRANS 2018 STANDARD PLANS.
8. MAINTAIN ALL SIGNS THROUGHOUT DURATION OF CONSTRUCTION.
9. MAINTAIN ONE TRAVEL LANE AT ALL TIMES.
10. PROVIDE FLAGGERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION.



**STAGE 1 - TRAFFIC CONTROL**  
NOT TO SCALE



**STAGE 2 - TRAFFIC CONTROL**  
NOT TO SCALE

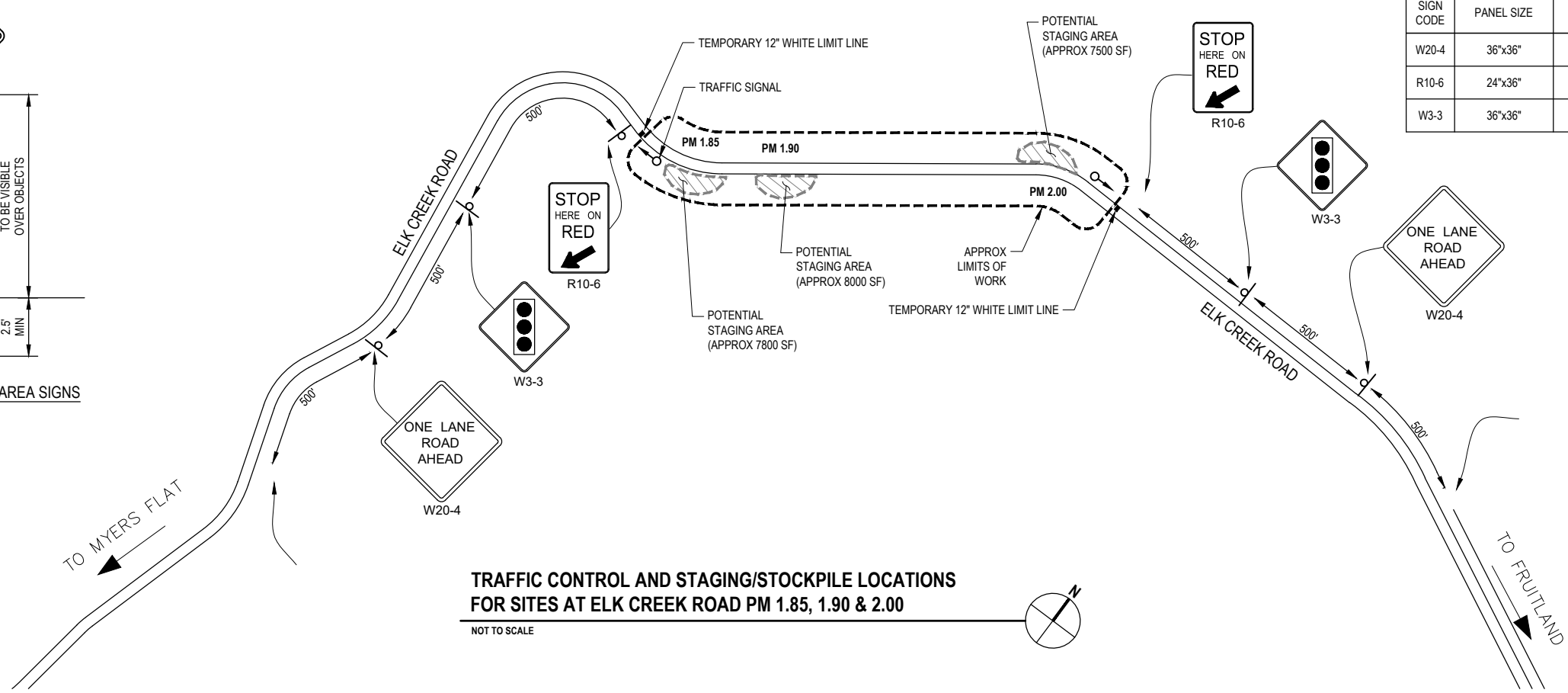


TYPICAL STATIONARY CONSTRUCTION AREA SIGNS

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

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

- LEGEND**
- SIGN
  - → TRAFFIC SIGNAL
  - - - WORK AREA LIMITS
  - - - STAGING AREA LIMITS



**TRAFFIC CONTROL AND STAGING/STOCKPILE LOCATIONS FOR SITES AT ELK CREEK ROAD PM 1.85, 1.90 & 2.00**

NOT TO SCALE





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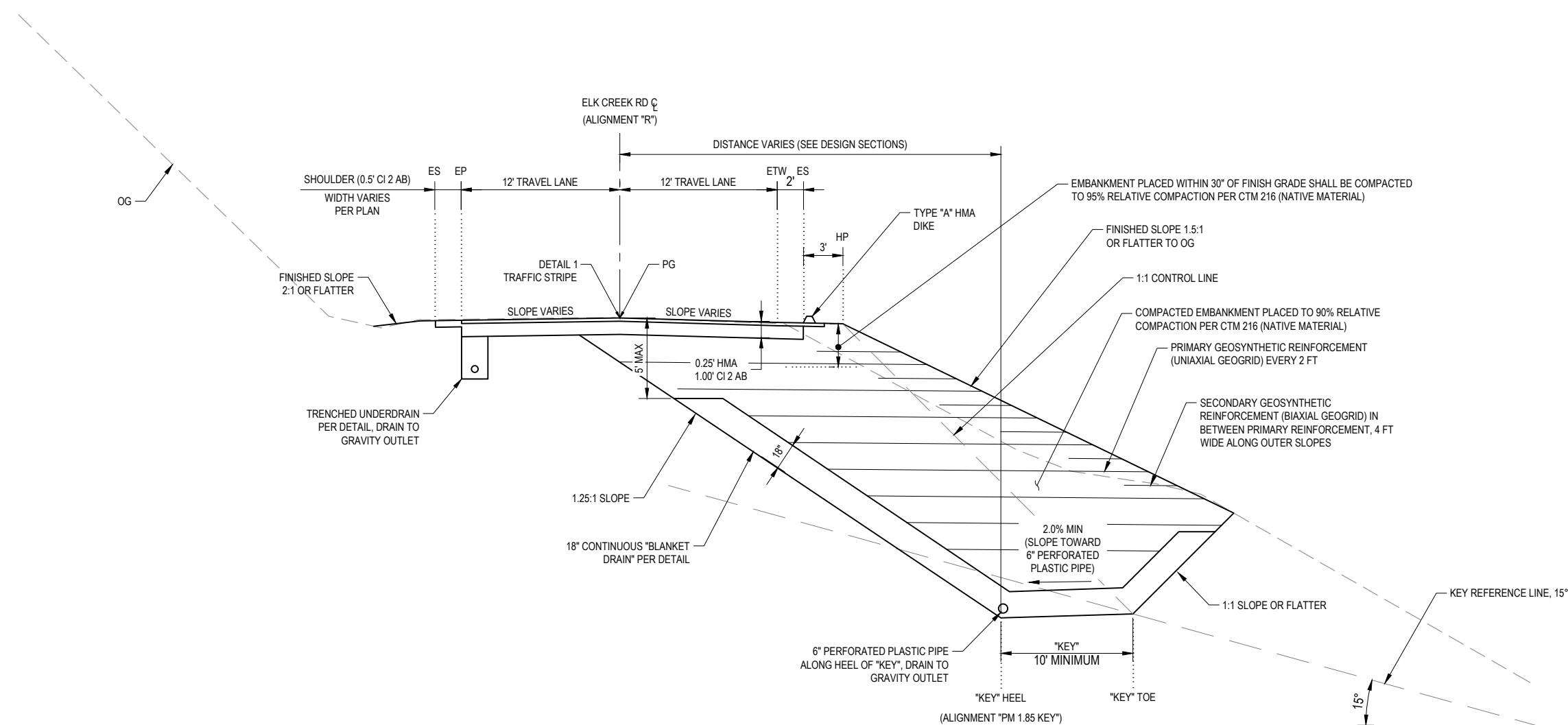
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ROAD NAME:	ELK CREEK ROAD
ROAD NO.:	C6D060
MILE POST:	0.95 - 2.42
PROJECT NO.:	ER-32L(237)
CONTRACT NO.:	217236
PLOT DATE:	05/20/2022

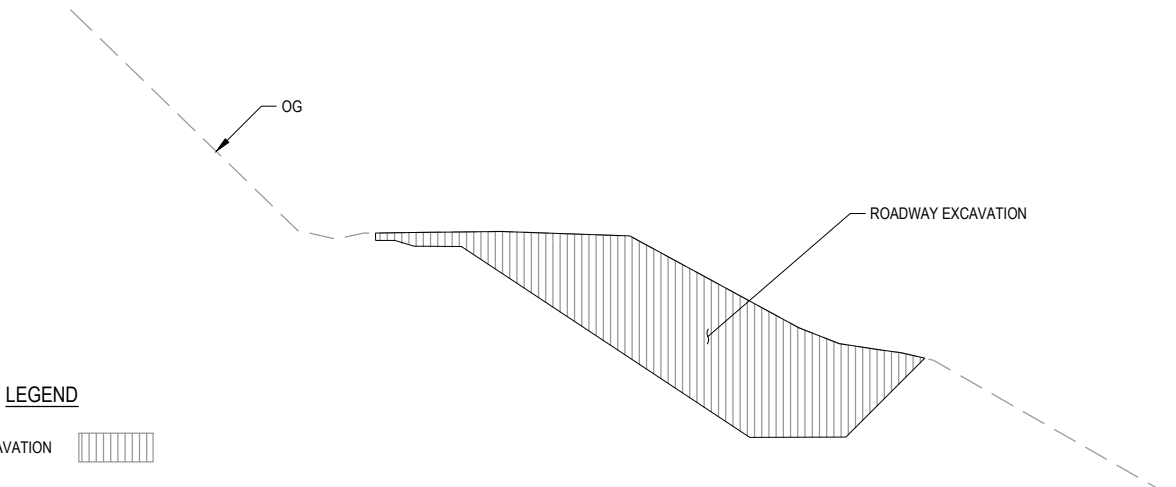
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C. HAYES
DRAWN BY:	C. HAYES
REVIEWED BY:	J. SVEHLA
APPROVED BY:	J. SVEHLA

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
PM 1.85 TYPICAL SECTIONS	

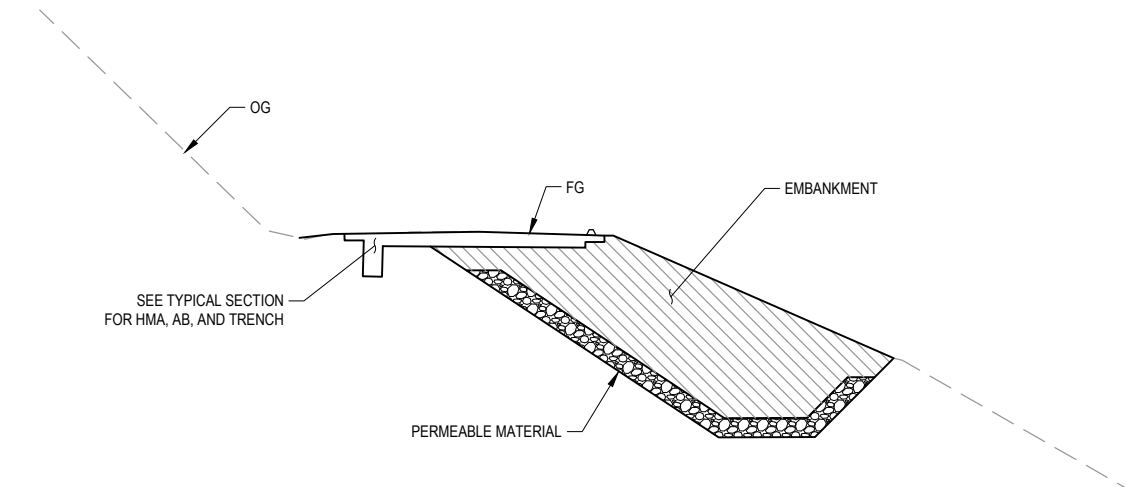
SHEET  
29  
OF  
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**TYPICAL SECTION ELK CREEK ROAD PM 1.85**  
NOT TO SCALE STA "R" 1+70 - STA "R" 3+80



**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE

**LEGEND**

ROADWAY EXCAVATION	
EMBANKMENT	
PERMEABLE MATERIAL	



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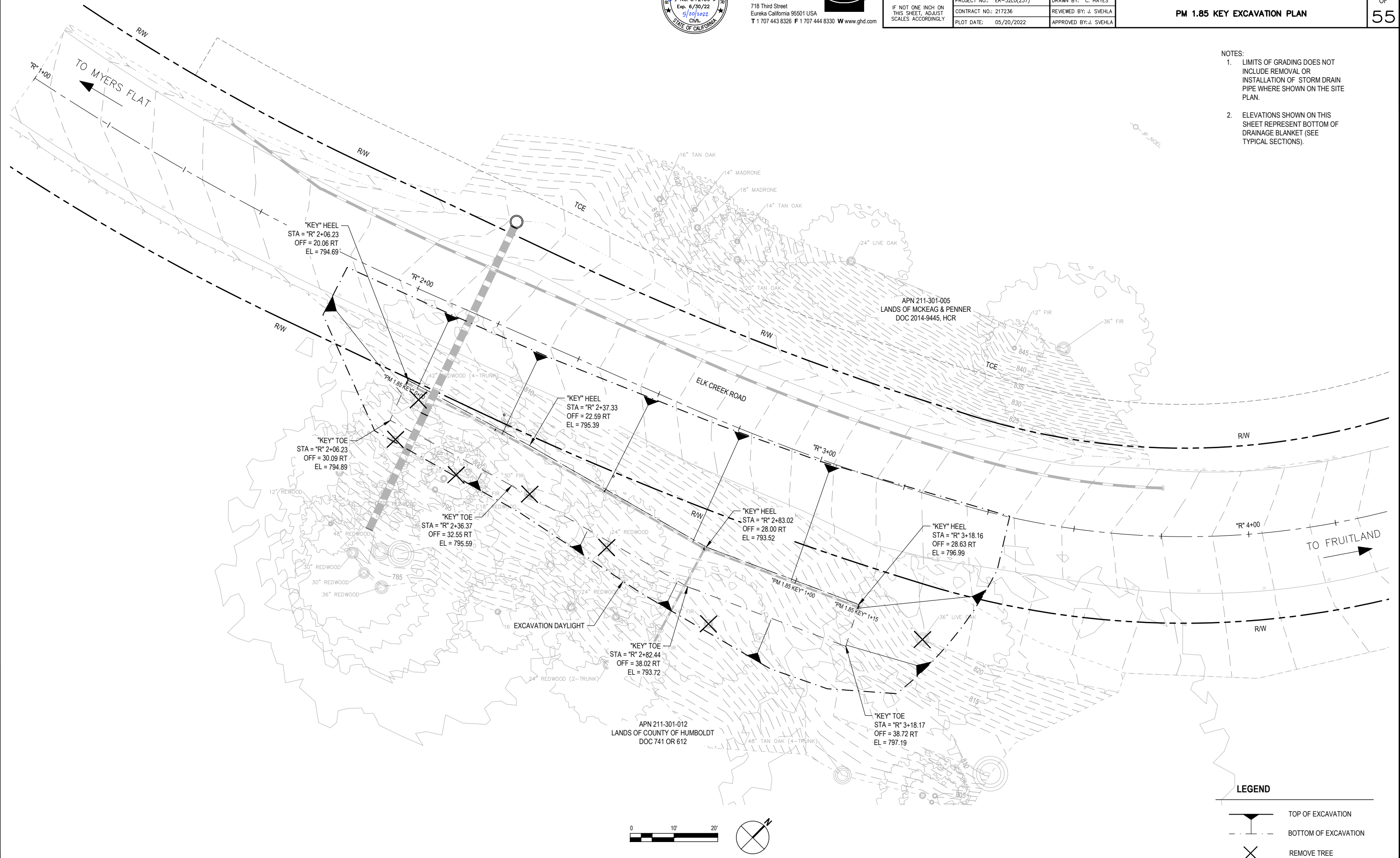
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ROAD NO.:	C6D060
MILE POST:	0.95 - 2.42
PROJECT NO.:	ER-32L(237)
CONTRACT NO.:	217236
PLOT DATE:	05/20/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C. HAYES
DRAWN BY:	C. HAYES
REVIEWED BY:	J. SVEHLA
APPROVED BY:	J. SVEHLA

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
PM 1.85 KEY EXCAVATION PLAN	

SHEET  
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OF  
55

- NOTES:
- LIMITS OF GRADING DOES NOT INCLUDE REMOVAL OR INSTALLATION OF STORM DRAIN PIPE WHERE SHOWN ON THE SITE PLAN.
  - ELEVATIONS SHOWN ON THIS SHEET REPRESENT BOTTOM OF DRAINAGE BLANKET (SEE TYPICAL SECTIONS).



NOTE: LIMITS OF GRADING DOES NOT INCLUDE REMOVAL OR INSTALLATION OF STORM DRAIN PIPE WHERE SHOWN ON THE SITE PLAN.



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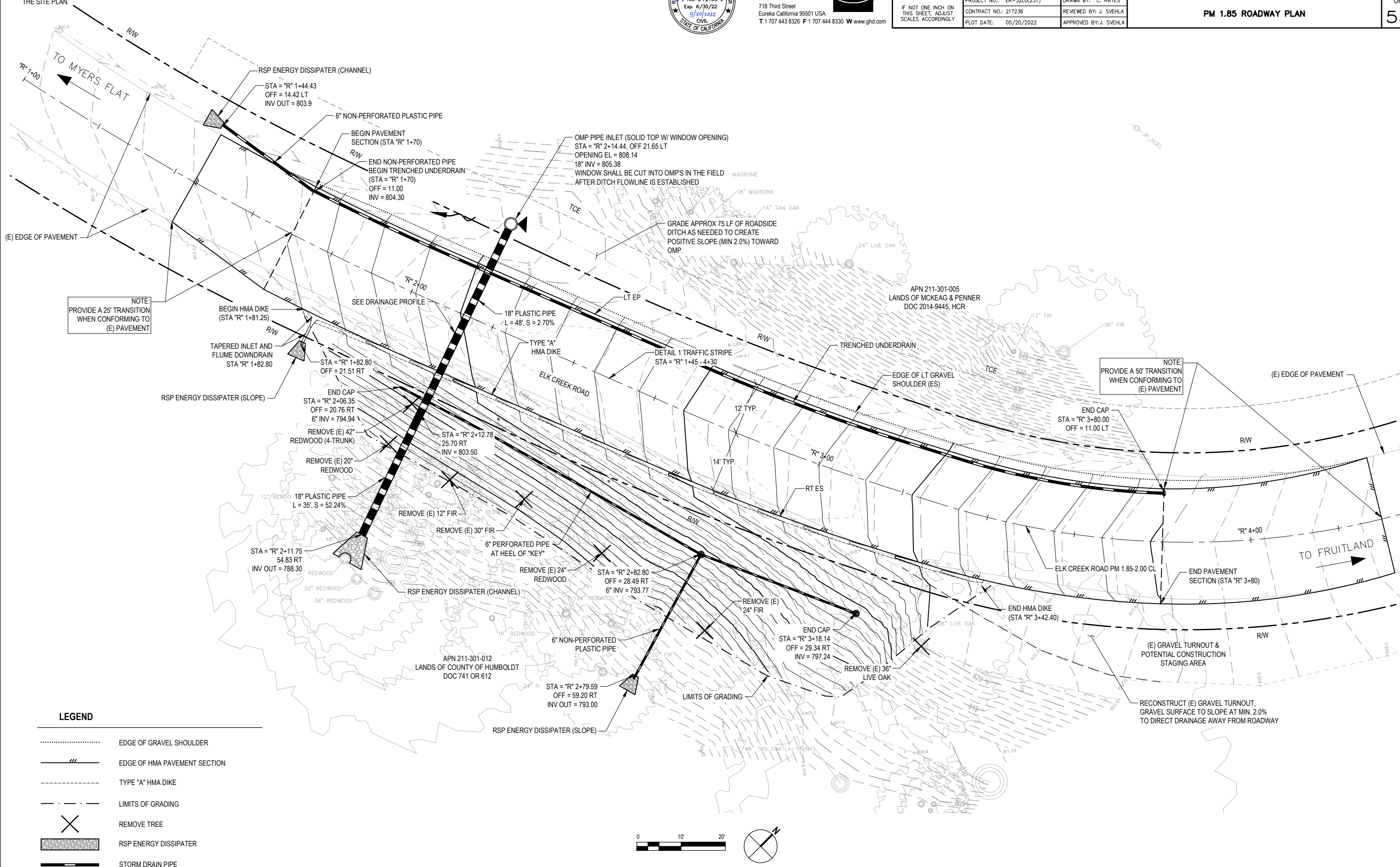


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ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.85 ROADWAY PLAN

SHEET 31 OF 55

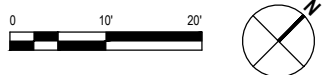


NOTE: PROVIDE A 25' TRANSITION WHEN CONFORMING TO (E) PAVEMENT

NOTE: PROVIDE A 50' TRANSITION WHEN CONFORMING TO (E) PAVEMENT

**LEGEND**

- ..... EDGE OF GRAVEL SHOULDER
- ==== EDGE OF HMA PAVEMENT SECTION
- TYPE "A" HMA DIKE
- - - - - LIMITS OF GRADING
- ✕ REMOVE TREE
- ▨ RSP ENERGY DISSIPATER
- ▬ STORM DRAIN PIPE

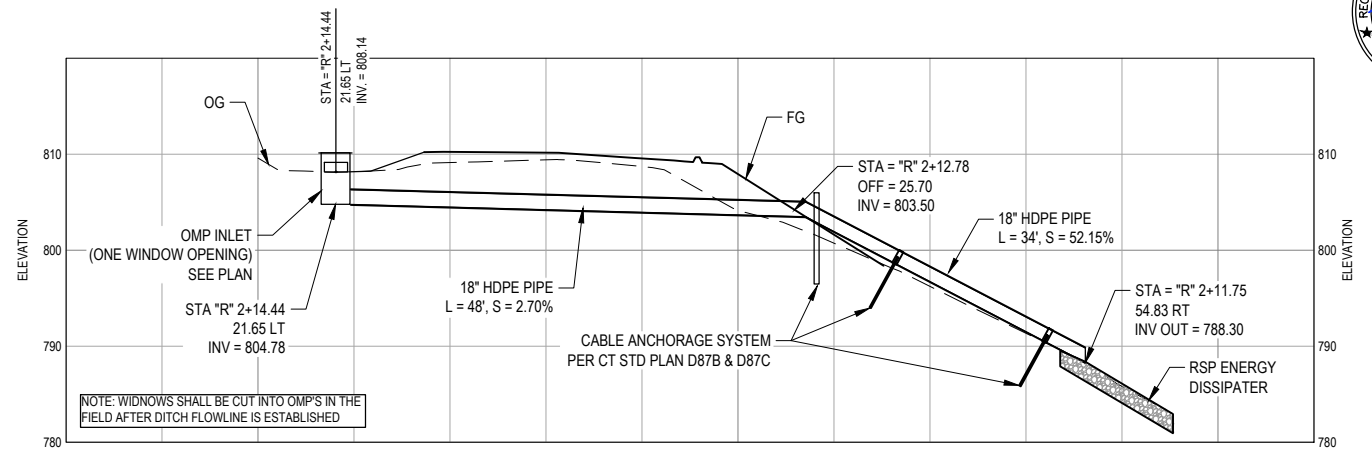




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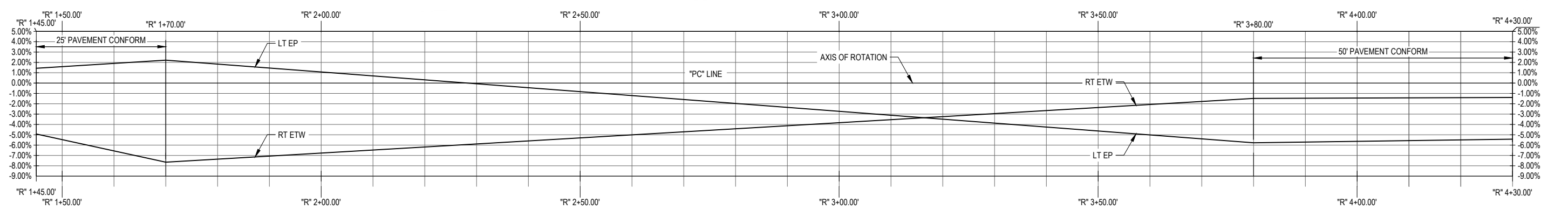


**DRAINAGE SYSTEM PROFILE**

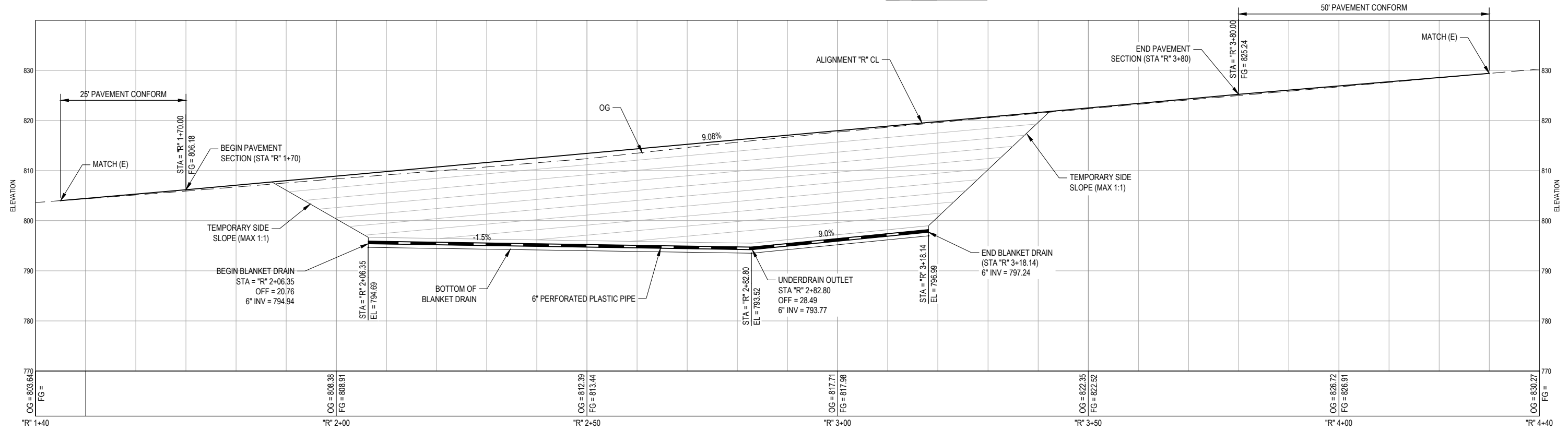
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 1+70	2.22%	806.45	806.18	805.26	-7.65%
"R" 3+80	-5.77%	824.55	825.24	825.06	-1.48%

Note: Negative cross slopes indicate downwards sloping away from centerline

**ROADWAY ELEVATIONS**



**ELK CREEK ROAD PM 1.85 SUPERELEVATION**



**ELK CREEK ROAD PM 1.85 PROFILE VIEW**



NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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BAR IS ONE INCH ON ORIGINAL DRAWING  
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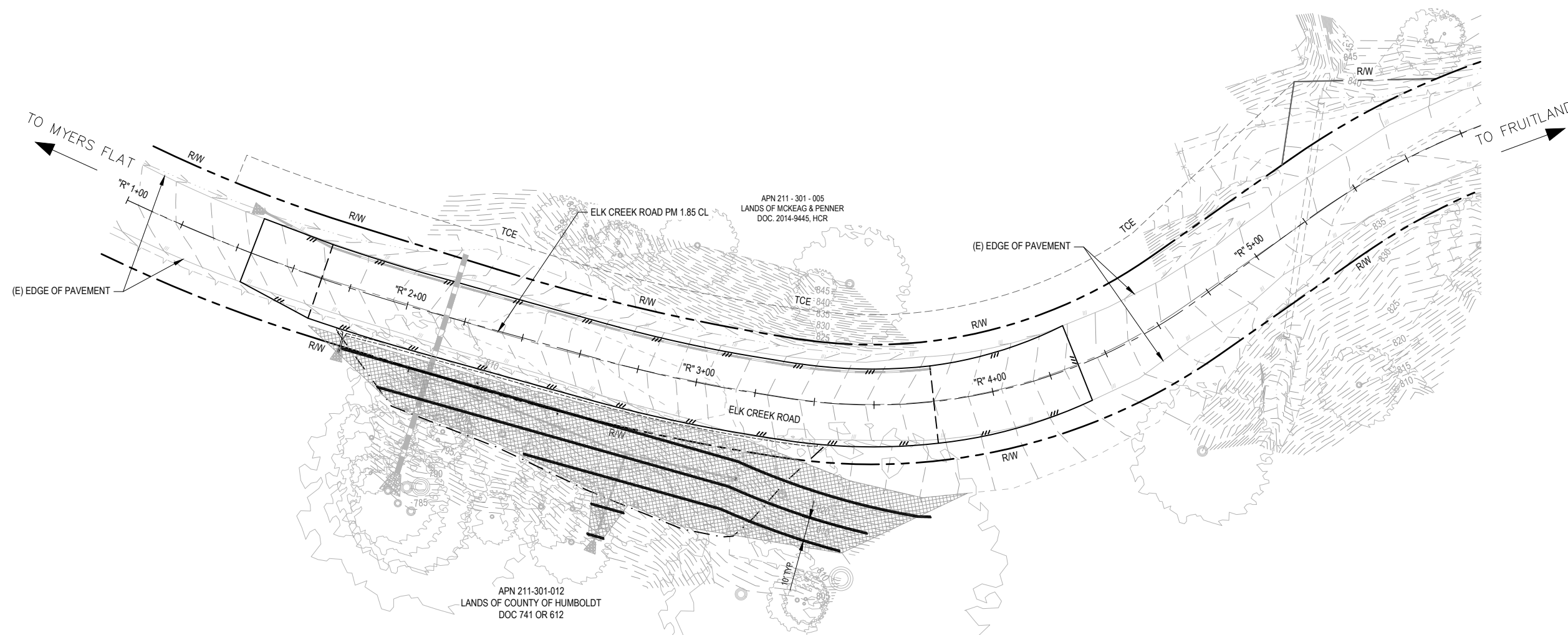
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32LO(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 1.85 EROSION CONTROL PLAN</b>

SHEET 33 OF 55

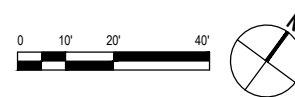
GENERAL NOTES

1. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXISTS THE SITE, ENTERS THE EXISTING STORMWATER SYSTEMS, OR ENTERS SENSITIVE AREAS. BMPs ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
2. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.



LEGEND

- DRY SEED UNDER ROLLED EROSION CONTROL PRODUCT
- FIBER ROLLS





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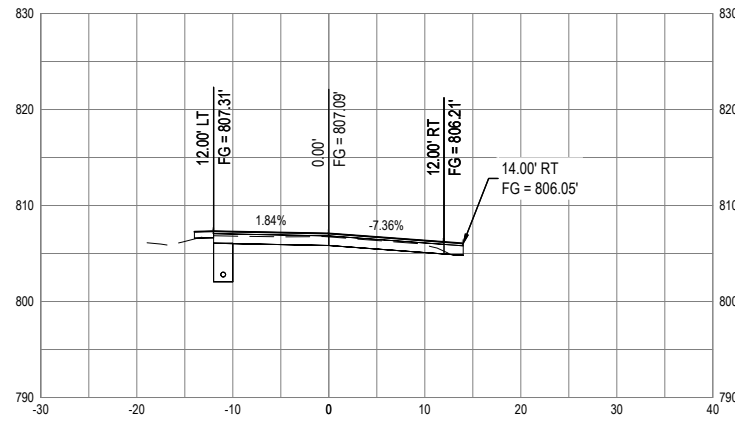


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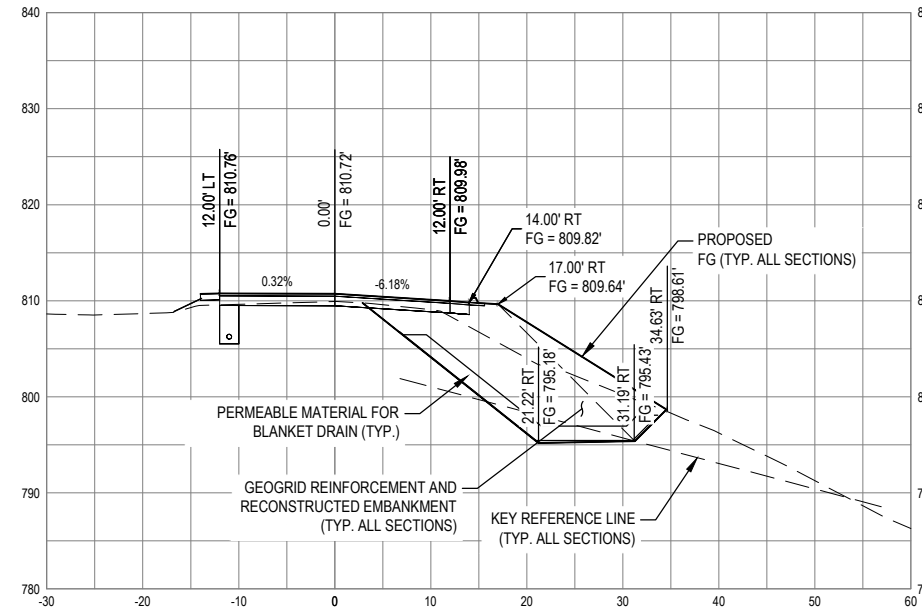
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.85 DESIGN SECTIONS

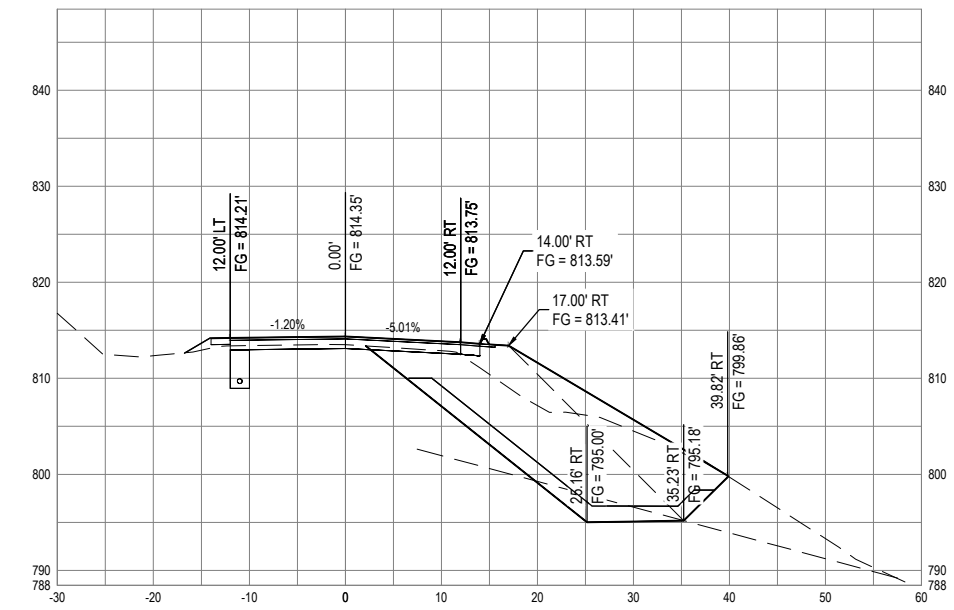
SHEET 34 OF 55



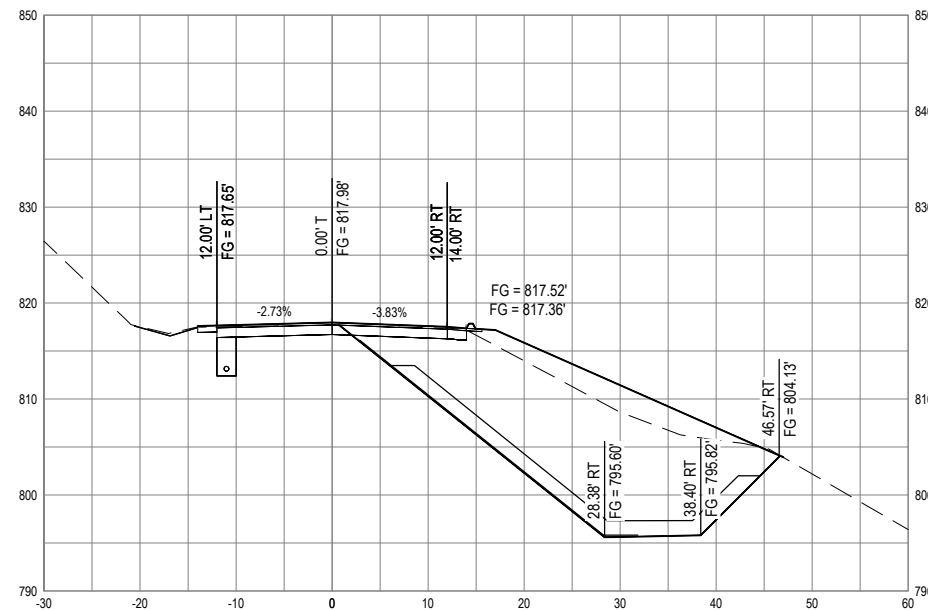
SECTION STA "R" 1+80



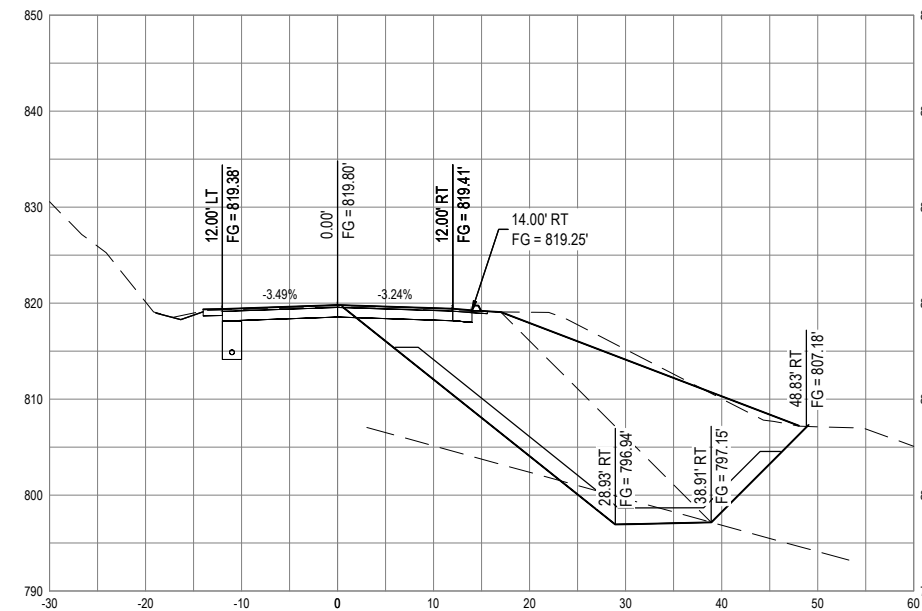
SECTION STA "R" 2+20



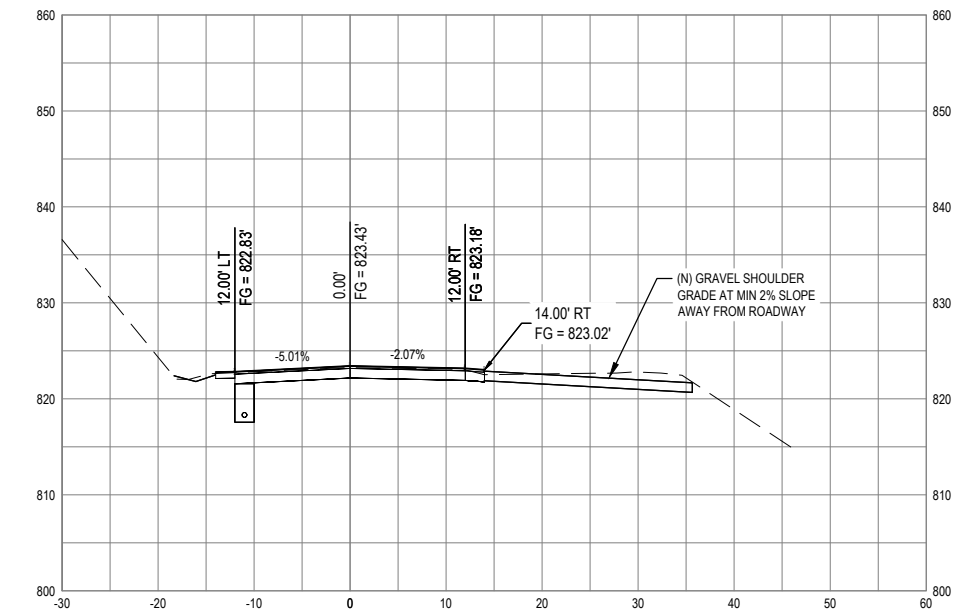
SECTION STA "R" 2+60



SECTION STA "R" 3+00



SECTION STA "R" 3+20



SECTION STA "R" 3+60



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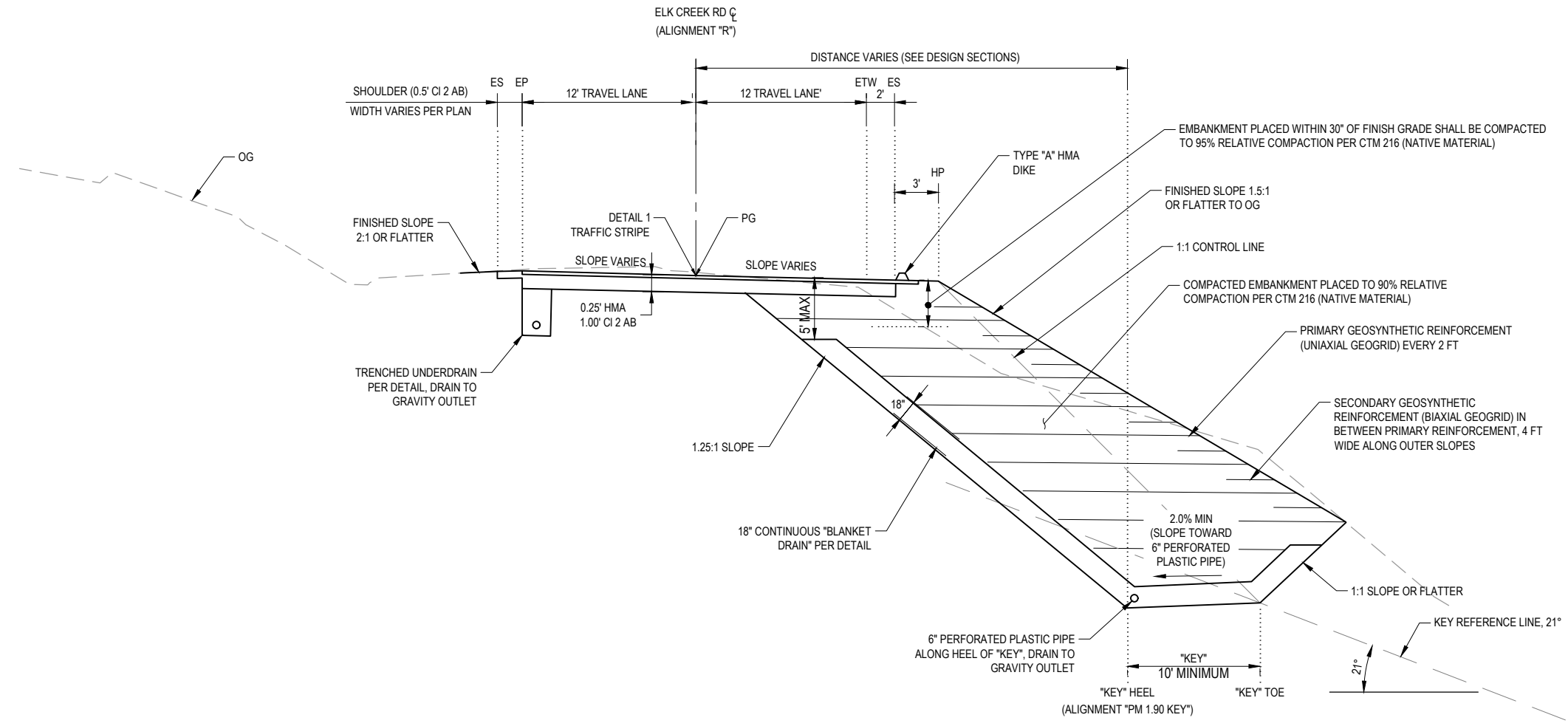
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: ELK CREEK ROAD  
ROAD NO: C6D060  
MILE POST: 0.95 - 2.42  
PROJECT NO.: ER-32L(237)  
CONTRACT NO.: 217236  
PLOT DATE: 05/20/2022

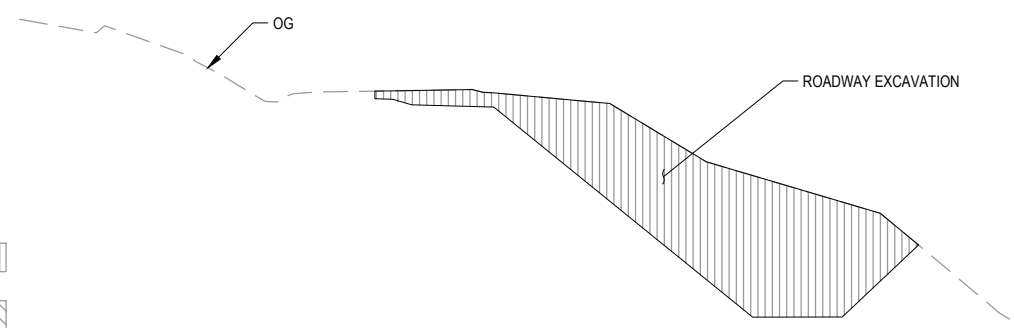
DESIGN SECTION ENGINEERING  
DESIGNED BY: C. HAYES  
DRAWN BY: C. HAYES  
REVIEWED BY: J. SVEHLA  
APPROVED BY: J. SVEHLA

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
PM 1.90 TYPICAL SECTIONS

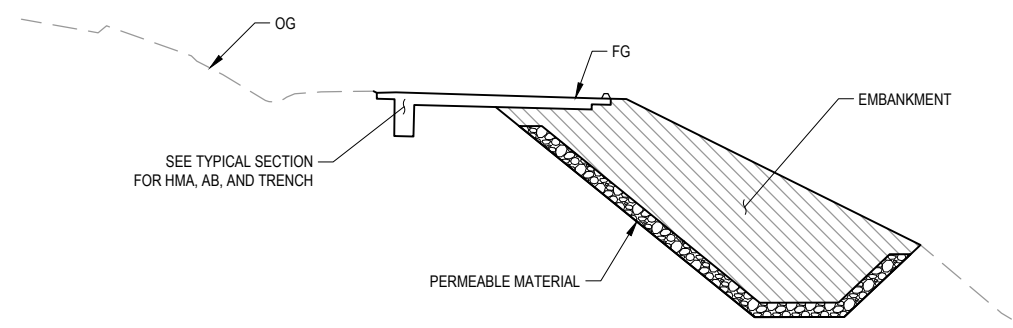
SHEET 35 OF 55



**TYPICAL SECTION ELK CREEK ROAD PM 1.90**  
NOT TO SCALE STA "R" 4+60 - STA "R" 6+60



**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE

**LEGEND**

- ROADWAY EXCAVATION
- EMBANKMENT
- CLASS 1 PERMEABLE MATERIAL



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ROAD NAME:	ELK CREEK ROAD
ROAD NO:	C6D060
MILE POST:	0.95 - 2.42
PROJECT NO.:	ER-32L(237)
CONTRACT NO.:	217236
PLOT DATE:	05/20/2022

DESIGN SECTION	ENGINEERING
DESIGNED BY:	C. HAYES
DRAWN BY:	C. HAYES
REVIEWED BY:	J. SVEHLA
APPROVED BY:	J. SVEHLA

COUNTY OF HUMBOLDT	DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
PM 1.90 KEY EXCAVATION PLAN	

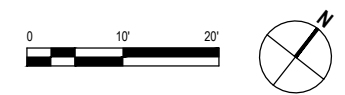
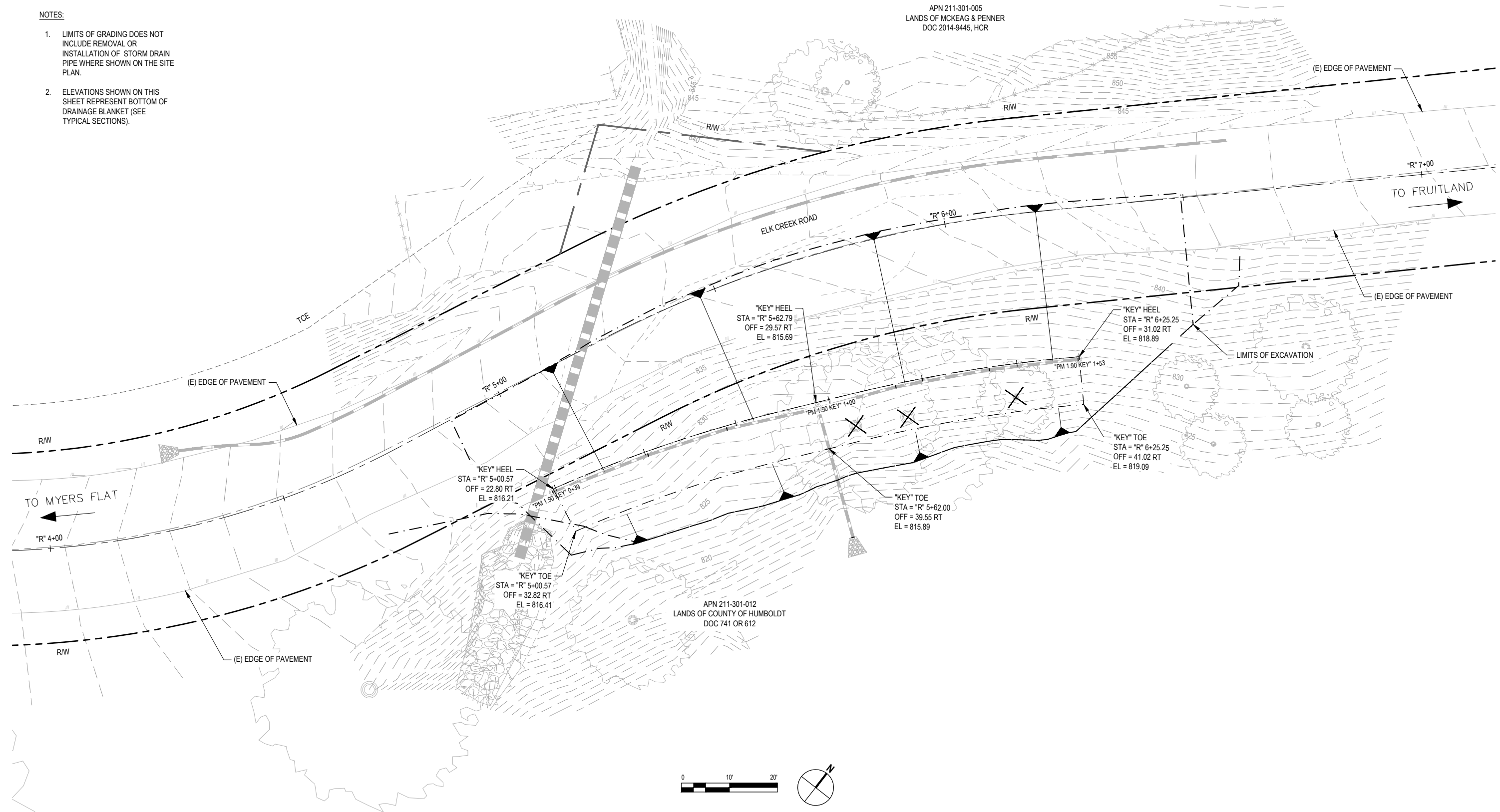
SHEET 36 OF 55

**LEGEND**

- TOP OF EXCAVATION
- BOTTOM OF EXCAVATION
- REMOVE TREE

**NOTES:**

1. LIMITS OF GRADING DOES NOT INCLUDE REMOVAL OR INSTALLATION OF STORM DRAIN PIPE WHERE SHOWN ON THE SITE PLAN.
2. ELEVATIONS SHOWN ON THIS SHEET REPRESENT BOTTOM OF DRAINAGE BLANKET (SEE TYPICAL SECTIONS).





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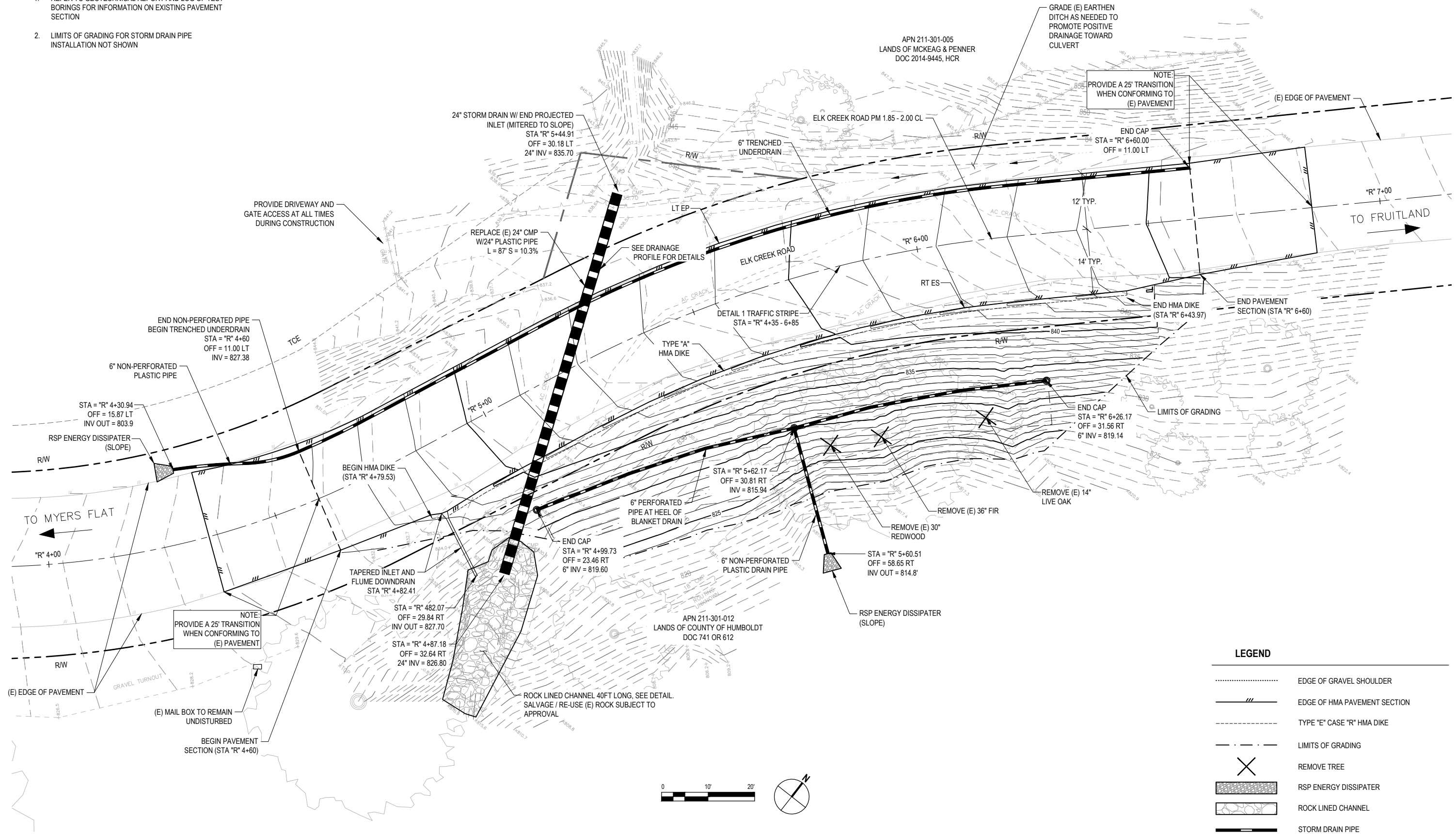
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.90 ROADWAY PLAN

SHEET 37 OF 55

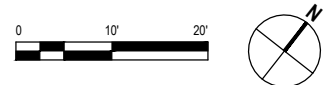
NOTES:

- REFER TO GEOTECHNICAL REPORT AND LOG OF TEST BORINGS FOR INFORMATION ON EXISTING PAVEMENT SECTION
- LIMITS OF GRADING FOR STORM DRAIN PIPE INSTALLATION NOT SHOWN



LEGEND

- ..... EDGE OF GRAVEL SHOULDER
- ==== EDGE OF HMA PAVEMENT SECTION
- TYPE "E" CASE "R" HMA DIKE
- - - - - LIMITS OF GRADING
- X REMOVE TREE
- [Pattern] RSP ENERGY DISSIPATER
- [Pattern] ROCK LINED CHANNEL
- ==== STORM DRAIN PIPE

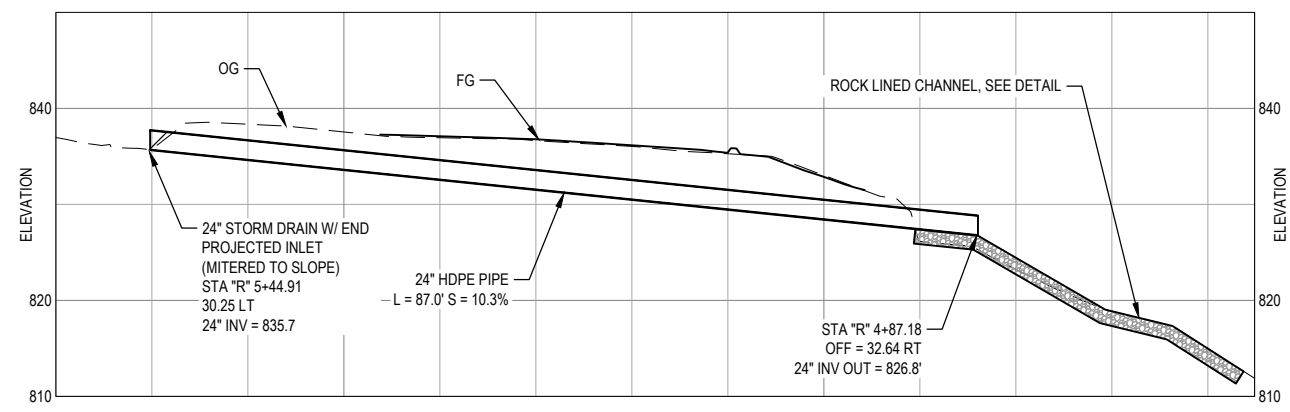




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ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
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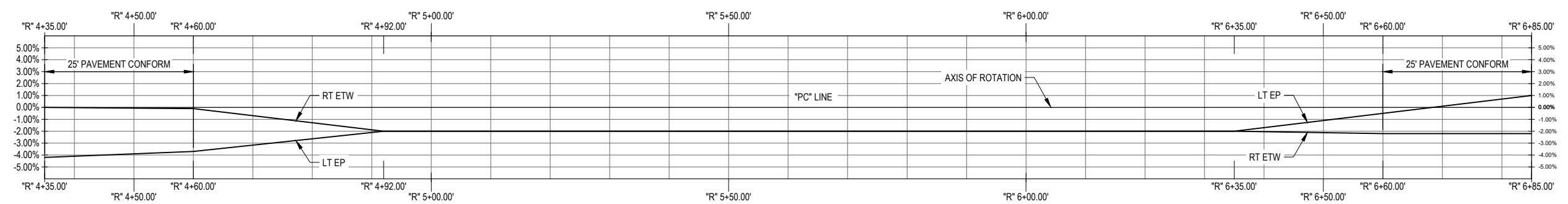


**DRAINAGE SYSTEM PROFILE**

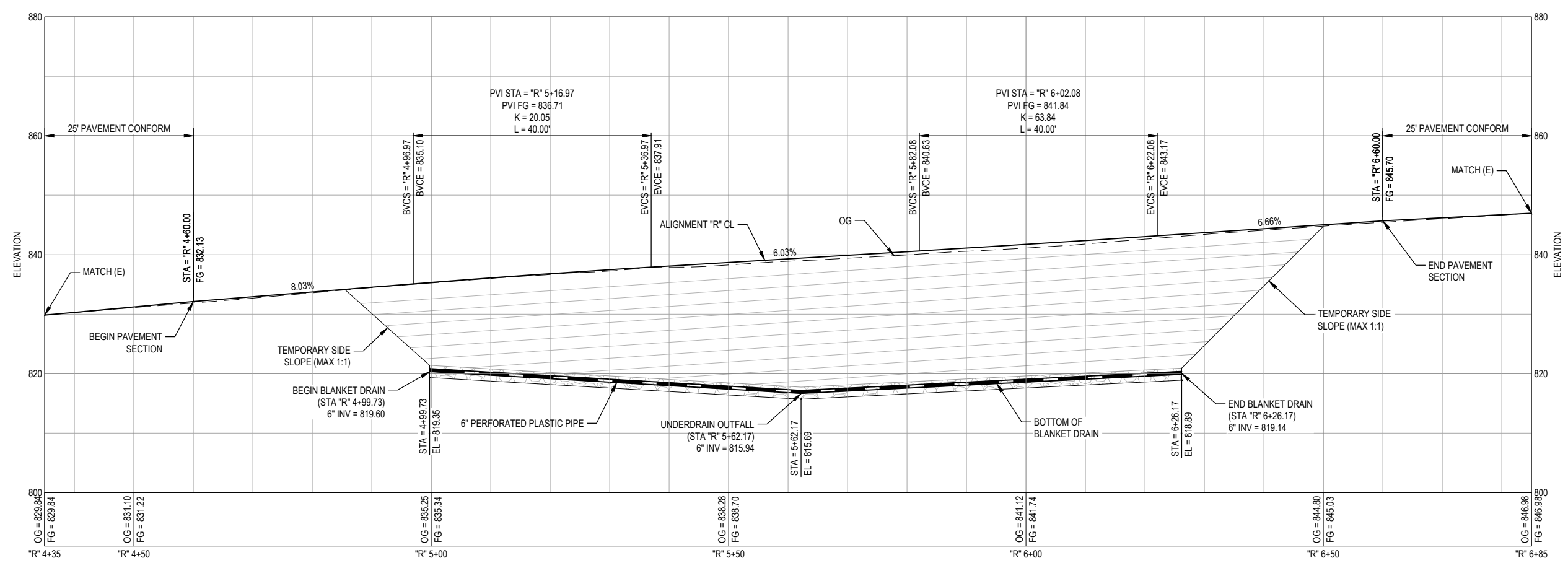
ROADWAY GEOMETRY - PM 1.90					
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 4+60	-3.70%	831.69	832.13	832.12	-0.10%
"R" 4+92	-2.00%	834.46	834.70	834.46	-2.00%
"R" 6+35	-2.00%	843.79	844.03	843.79	-2.00%
"R" 6+60	-0.50%	845.64	845.70	845.44	-2.20%

Note: Negative cross slopes indicate downwards sloping away from centerline

**ROADWAY ELEVATIONS**



**ELK CREEK ROAD PM 1.90 SUPERELEVATION**



**ELK CREEK ROAD PM 1.90 PROFILE VIEW**

NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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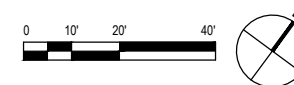
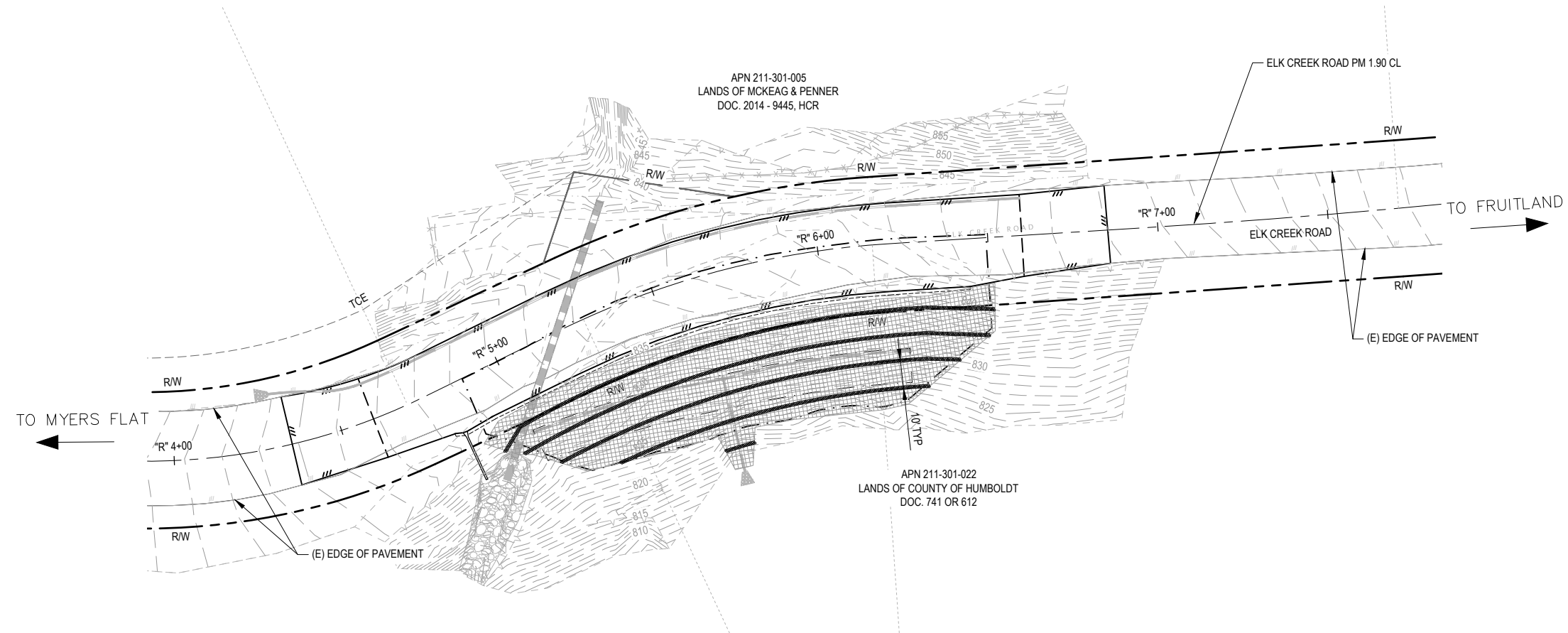
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
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PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.90 EROSION CONTROL PLAN

SHEET 39 OF 55

GENERAL NOTES

1. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE, ENTERS THE EXISTING STORMWATER SYSTEMS, OR ENTERS SENSITIVE AREAS. BMPs ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
2. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.



LEGEND

- DRY SEED UNDER ROLLED EROSION CONTROL PRODUCT
- FIBER ROLLS



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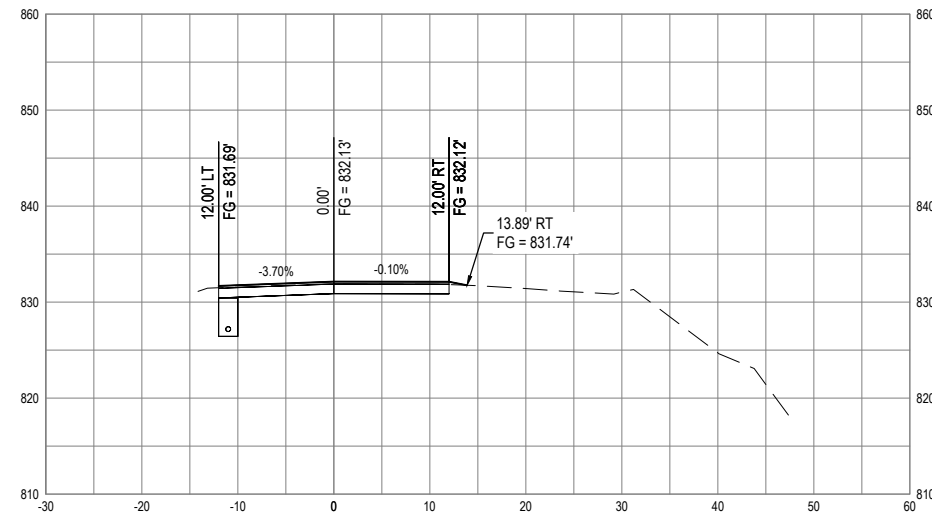
BAR IS ONE INCH ON ORIGINAL DRAWING

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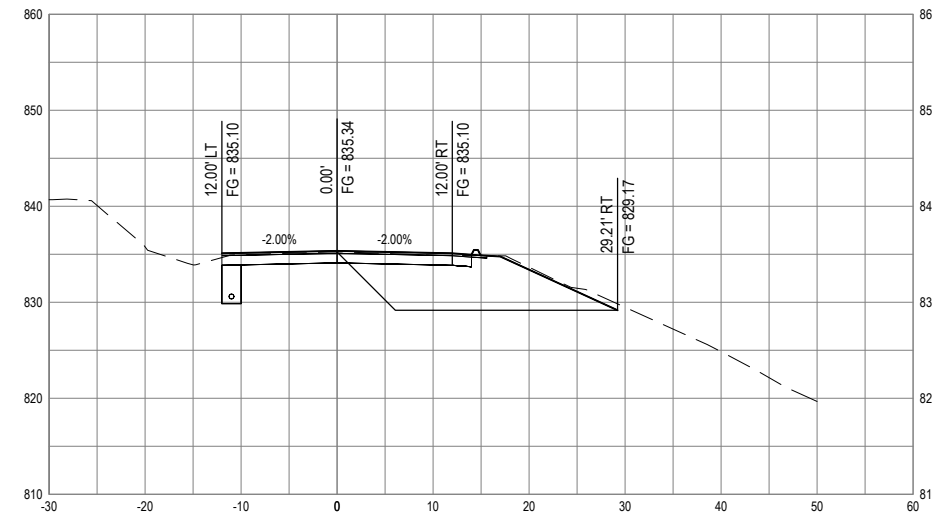
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 1.90 DESIGN SECTIONS

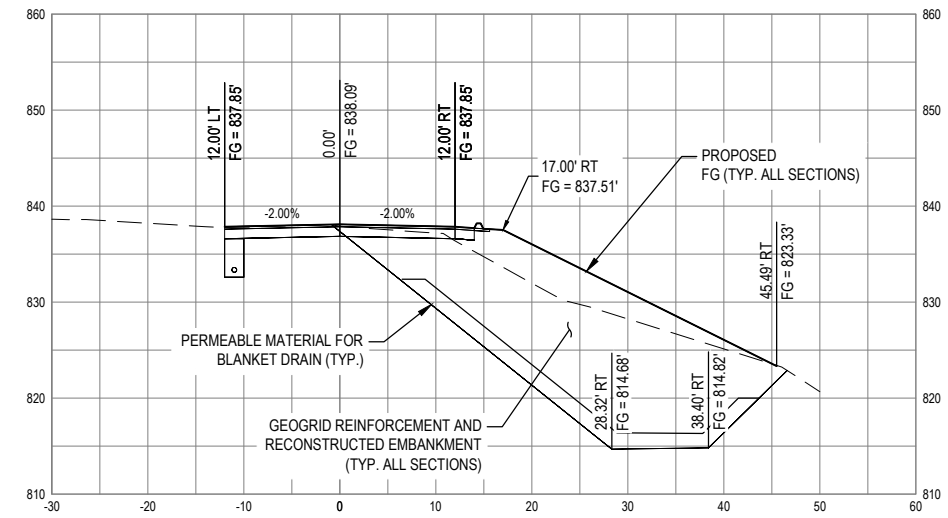
SHEET 40 OF 55



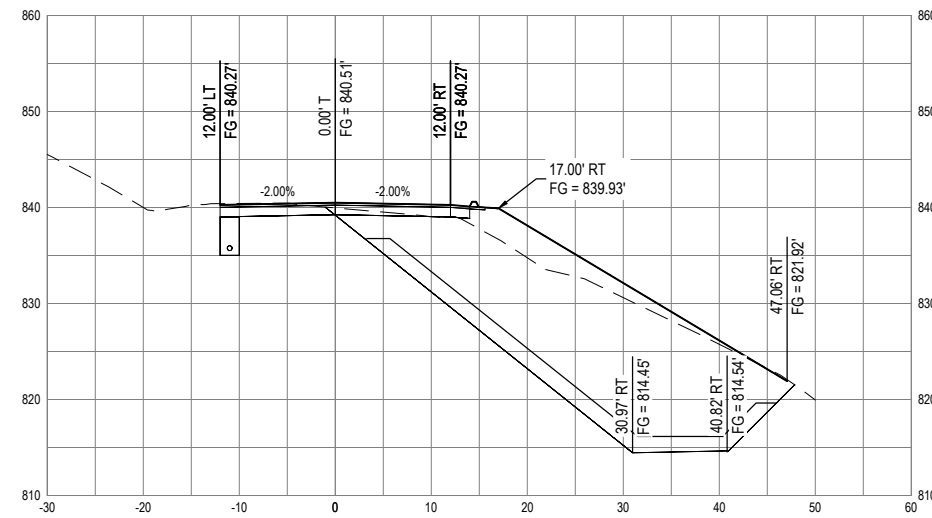
SECTION STA "R" 4+60



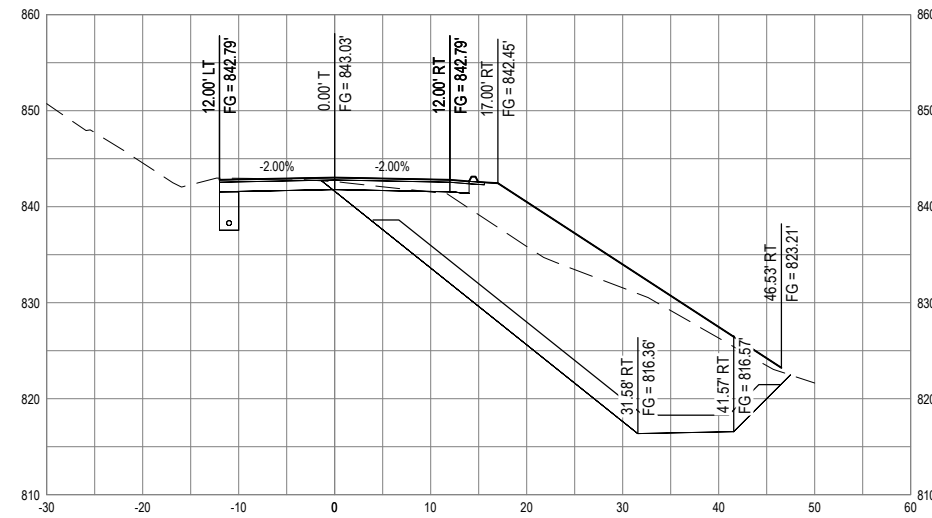
SECTION STA "R" 5+00



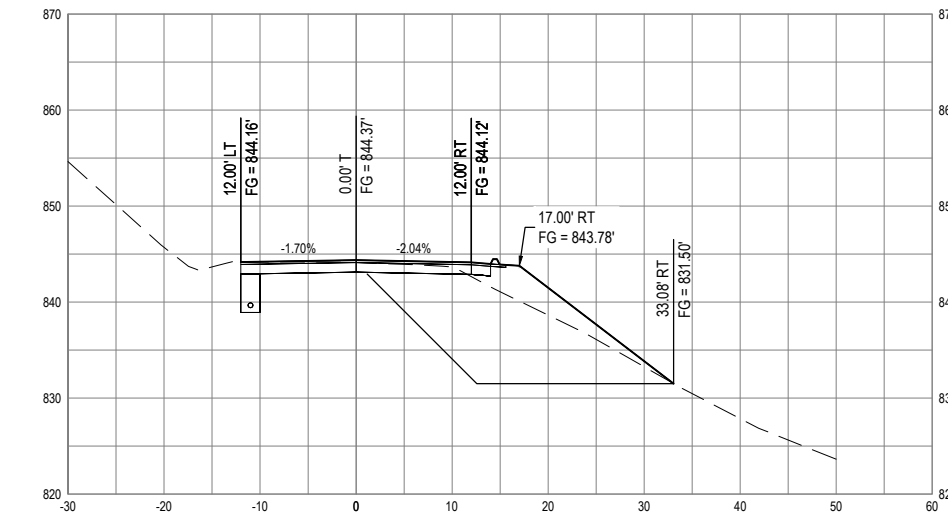
SECTION STA "R" 5+40



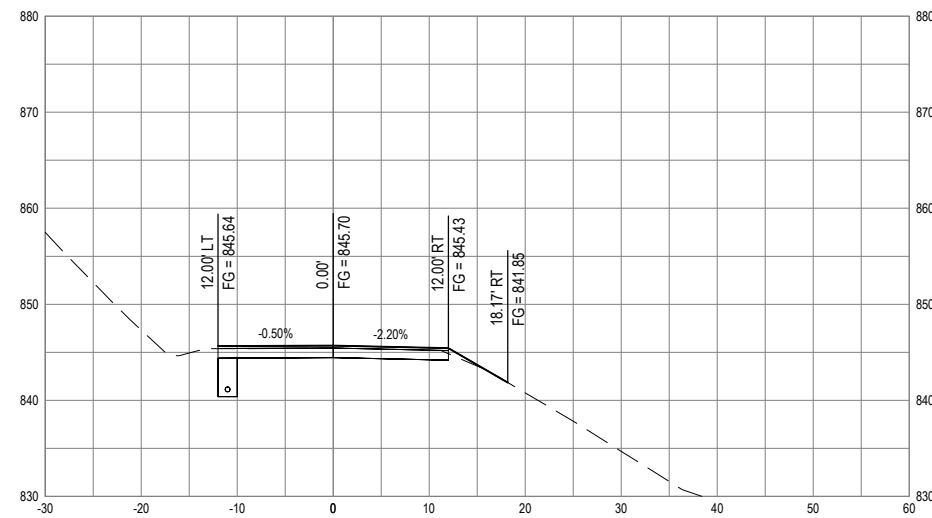
SECTION STA "R" 5+80



SECTION STA "R" 6+20



SECTION STA "R" 6+40



SECTION STA "R" 6+60





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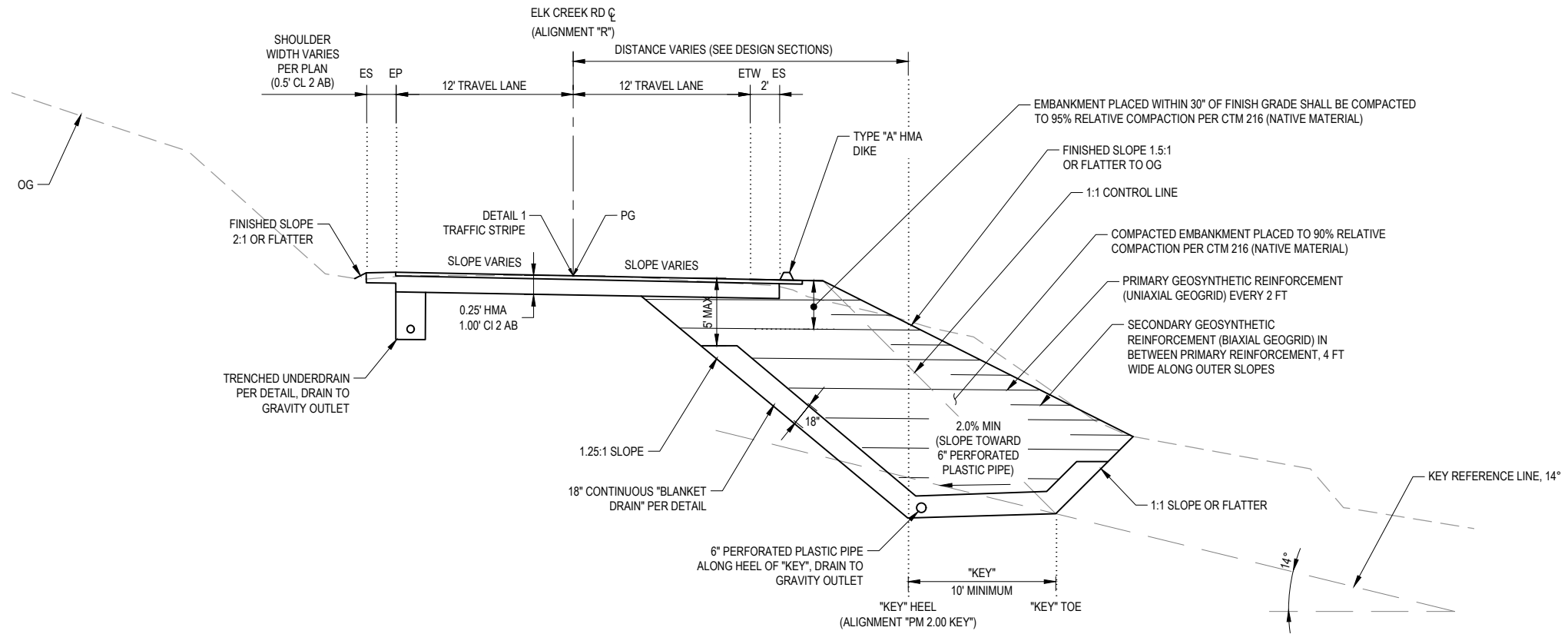


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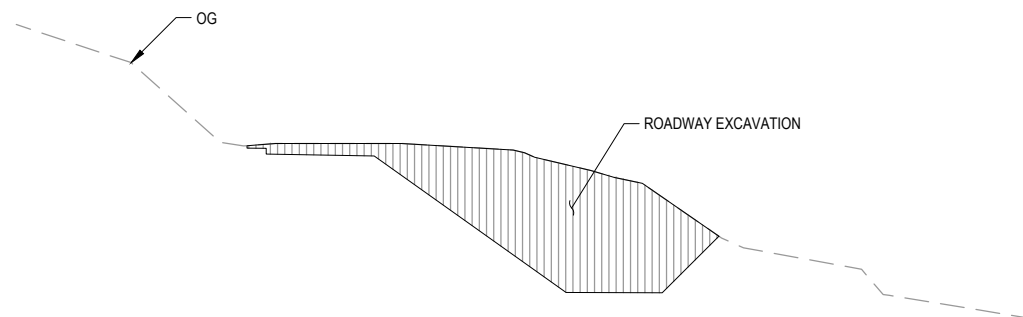
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 2.00 TYPICAL SECTIONS

SHEET 41 OF 55



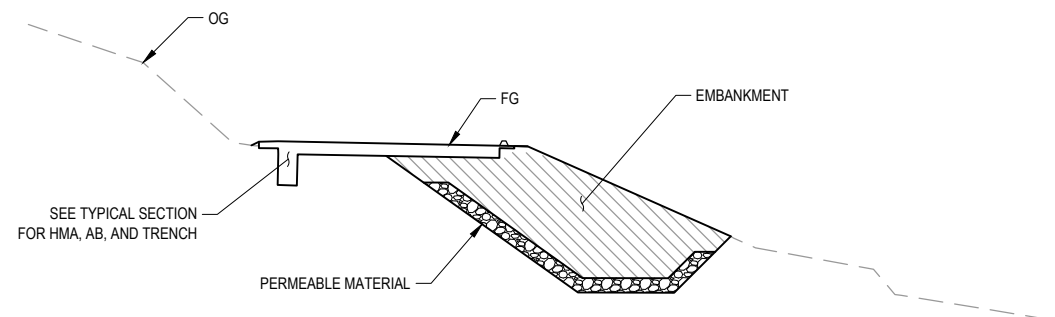
**TYPICAL SECTION ELK CREEK ROAD PM 2.00**  
NOT TO SCALE STA "R" 9+80 - STA "R" 11+40



**LEGEND**

- ROADWAY EXCAVATION
- EMBANKMENT
- PERMEABLE MATERIAL

**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE



**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE



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ROAD NAME: ELK CREEK ROAD  
ROAD NO: C6D060  
MILE POST: 0.95 - 2.42  
PROJECT NO.: ER-32L(237)  
CONTRACT NO.: 217236  
PLOT DATE: 05/20/2022

DESIGN SECTION ENGINEERING  
DESIGNED BY: C. HAYES  
DRAWN BY: C. HAYES  
REVIEWED BY: J. SVEHLA  
APPROVED BY: J. SVEHLA

COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
PM 2.00 KEY EXCAVATION PLAN

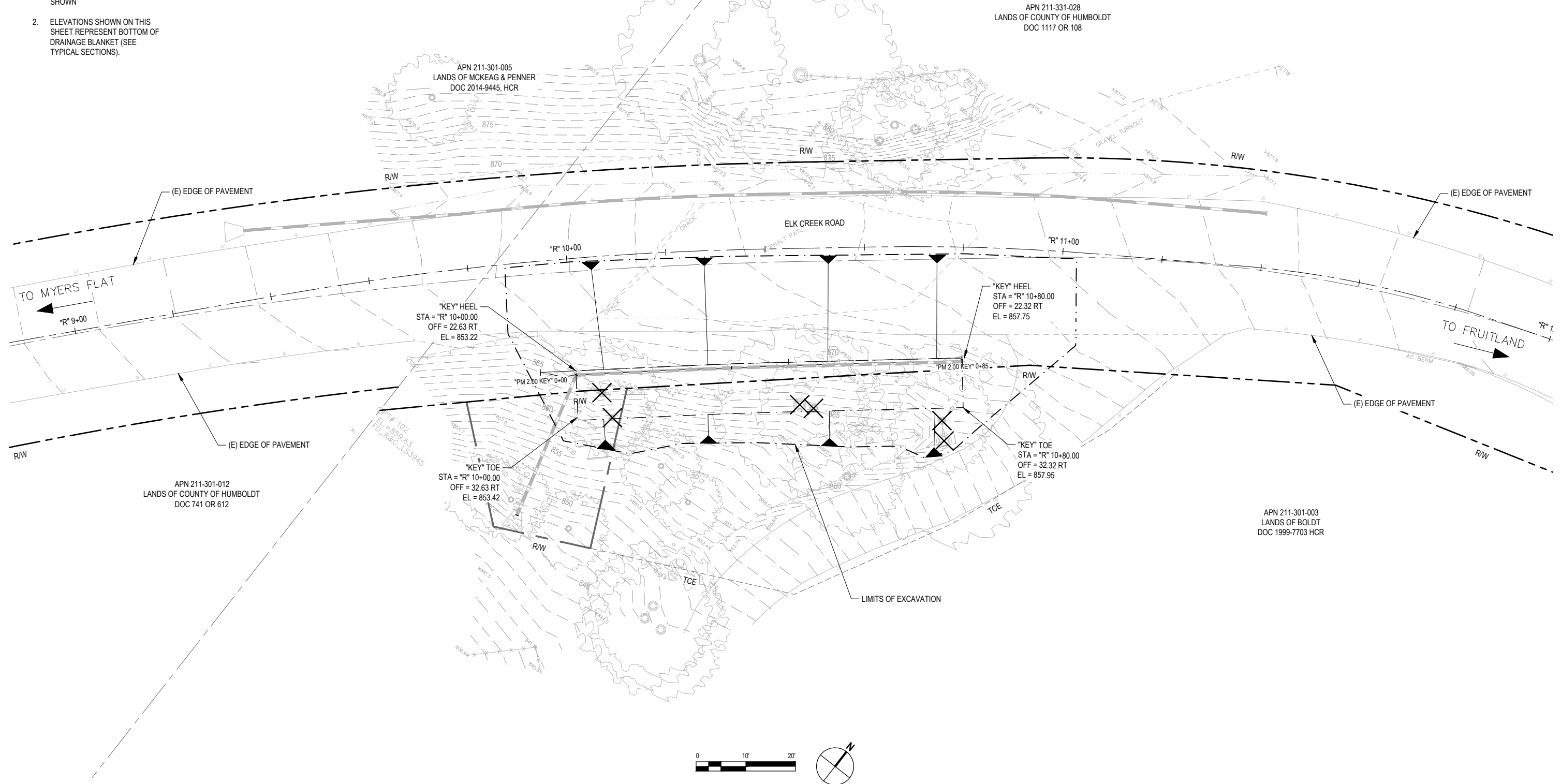
SHEET 42 OF 55

**LEGEND**

- TOP OF EXCAVATION
- BOTTOM OF EXCAVATION
- REMOVE TREE

**NOTES:**

1. LIMITS OF GRADING FOR STORM DRAIN PIPE INSTALLATION NOT SHOWN
2. ELEVATIONS SHOWN ON THIS SHEET REPRESENT BOTTOM OF DRAINAGE BLANKET (SEE TYPICAL SECTIONS).





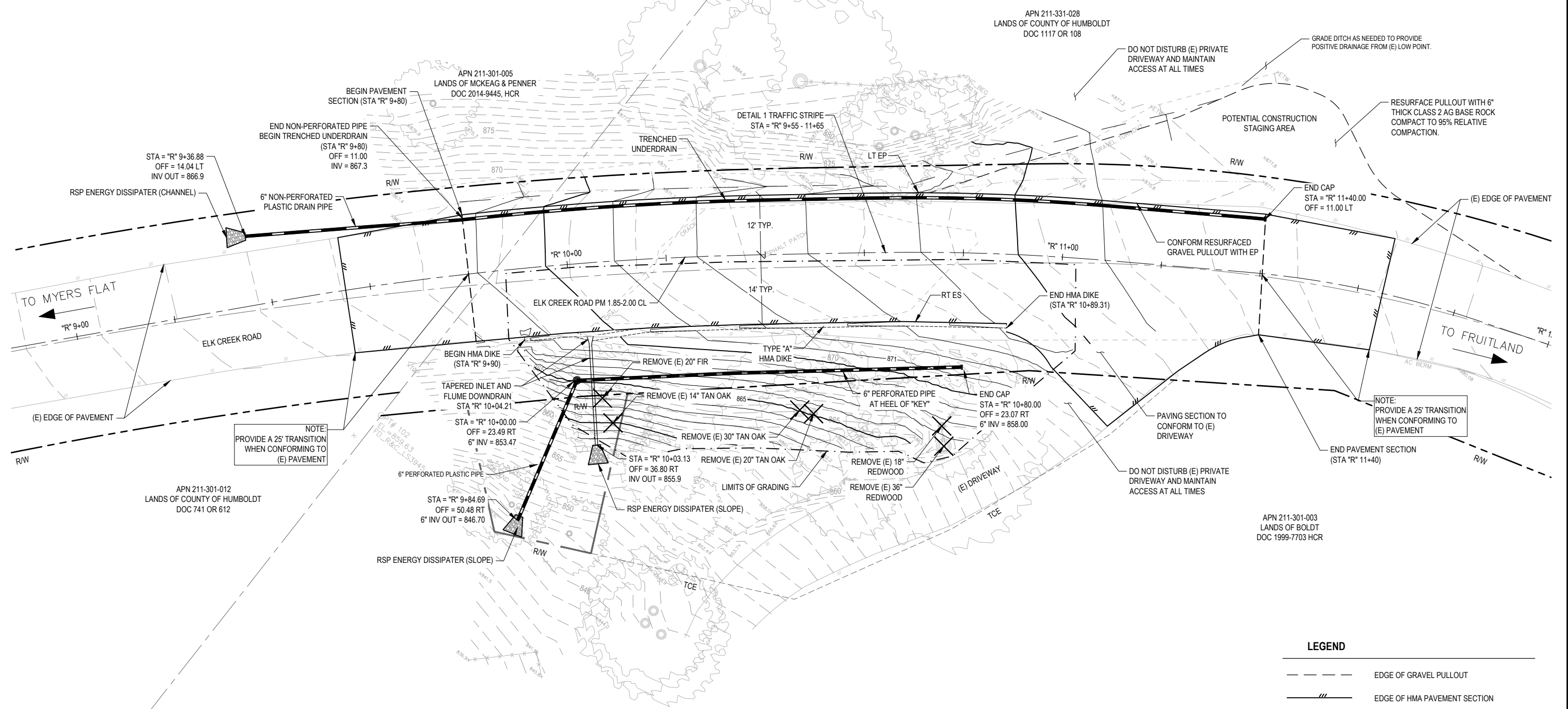
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ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
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PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
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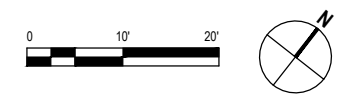
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 43 OF 55
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
PM 2.00 ROADWAY PLAN	

- NOTES:
- REFER TO GEOTECHNICAL REPORT AND LOG OF TEST BORINGS FOR INFORMATION ON EXISTING PAVEMENT SECTION
  - LIMITS OF GRADING FOR STORM DRAIN PIPE INSTALLATION NOT SHOWN



NOTE:  
PROVIDE A 25' TRANSITION  
WHEN CONFORMING TO  
(E) PAVEMENT

NOTE:  
PROVIDE A 25' TRANSITION  
WHEN CONFORMING TO  
(E) PAVEMENT



**LEGEND**

	EDGE OF GRAVEL PULLOUT
	EDGE OF HMA PAVEMENT SECTION
	TYPE "A" HMA DIKE
	LIMITS OF GRADING
	REMOVE TREE
	RSP ENERGY DISSIPATER
	STORM DRAIN PIPE



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ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
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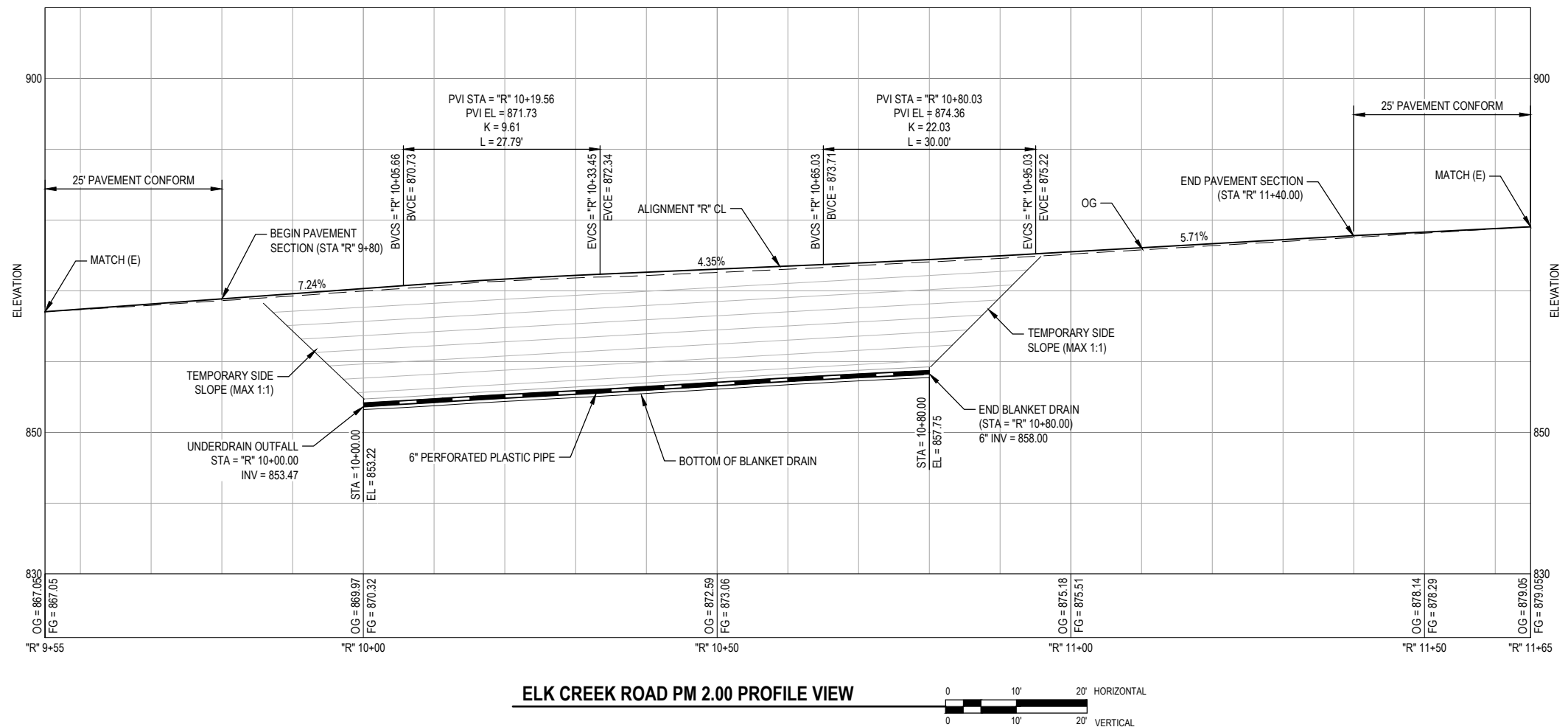
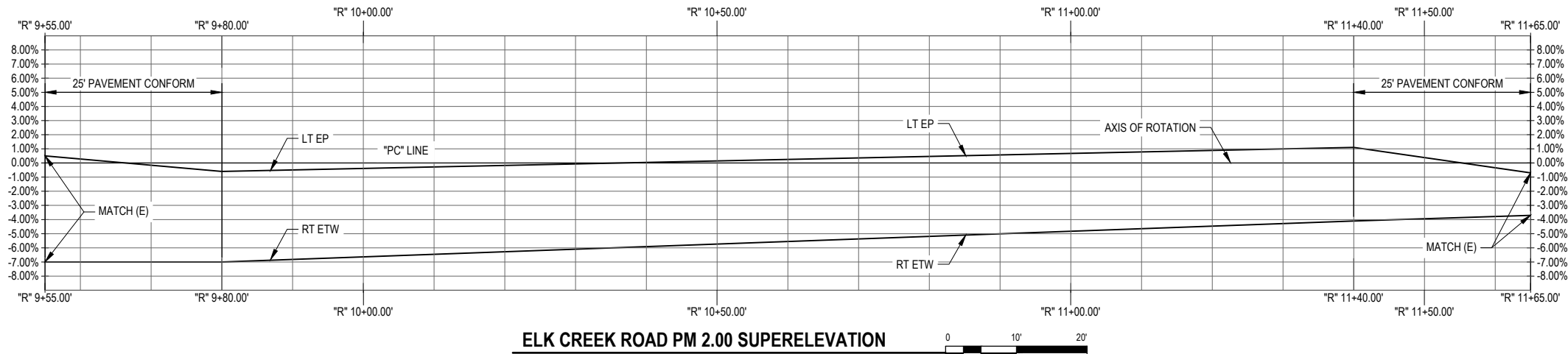
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 2.00 ROADWAY PROFILE AND SUPERELEVATION

SHEET 44 OF 55

ROADWAY GEOMETRY - PM 2.00					
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 9+80	-0.60%	868.80	868.87	868.03	-7.00%
"R" 10+04	-2.00%	870.37	870.61	869.94	-5.57%
"R" 10+64	-2.00%	873.43	873.67	873.43	-2.00%
"R" 10+88	-2.00%	874.59	874.83	874.59	-2.00%
"R" 11+05	-0.99%	875.67	875.79	875.55	-2.00%
"R" 11+40	1.10%	877.92	877.79	877.30	-4.10%

Note: Negative cross slopes indicate downwards sloping away from centerline

### ROADWAY ELEVATIONS



NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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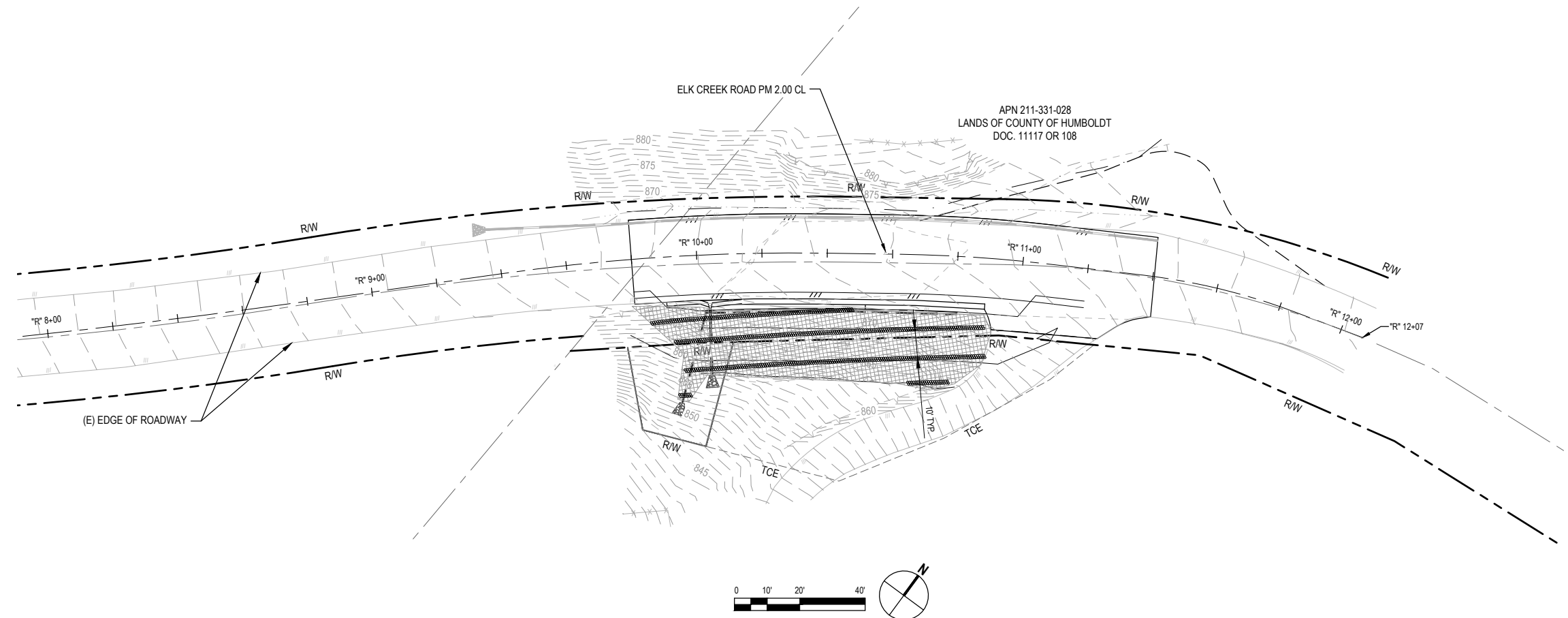
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32LO(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 2.00 EROSION CONTROL PLAN</b>

SHEET  
45  
OF  
55

**GENERAL NOTES**

1. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXISTS THE SITE, ENTERS THE EXISTING STORMWATER SYSTEMS, OR ENTERS SENSITIVE AREAS. BMPs ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
2. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.



**LEGEND**

- DRY SEED UNDER ROLLED EROSION CONTROL PRODUCT
- FIBER ROLLS



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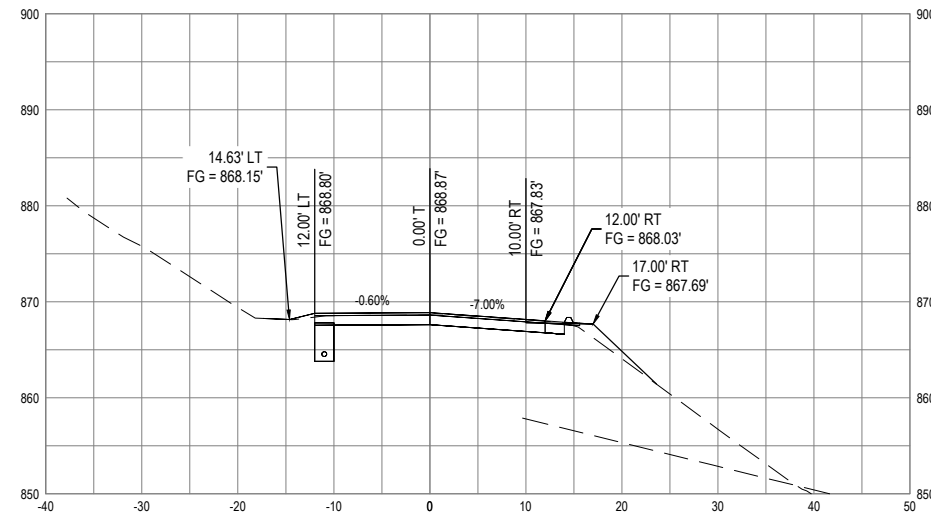
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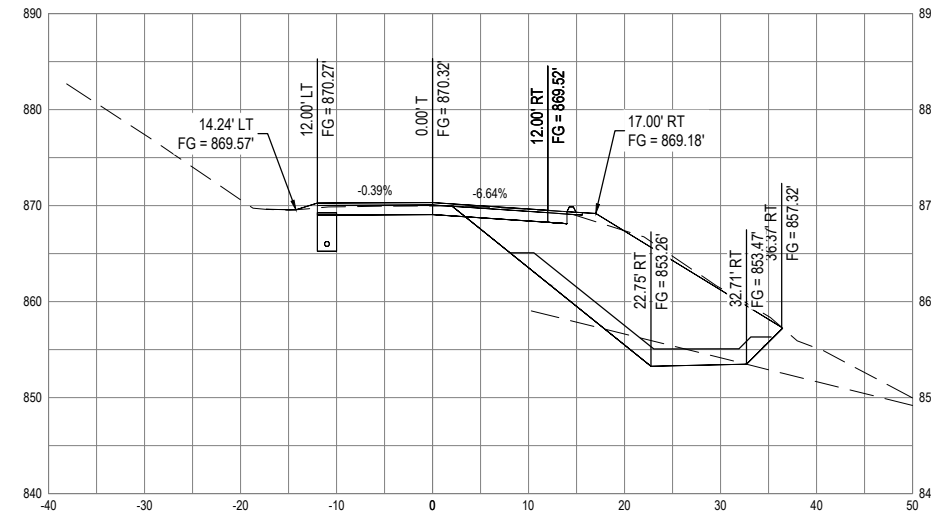
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 2.00 DESIGN SECTIONS

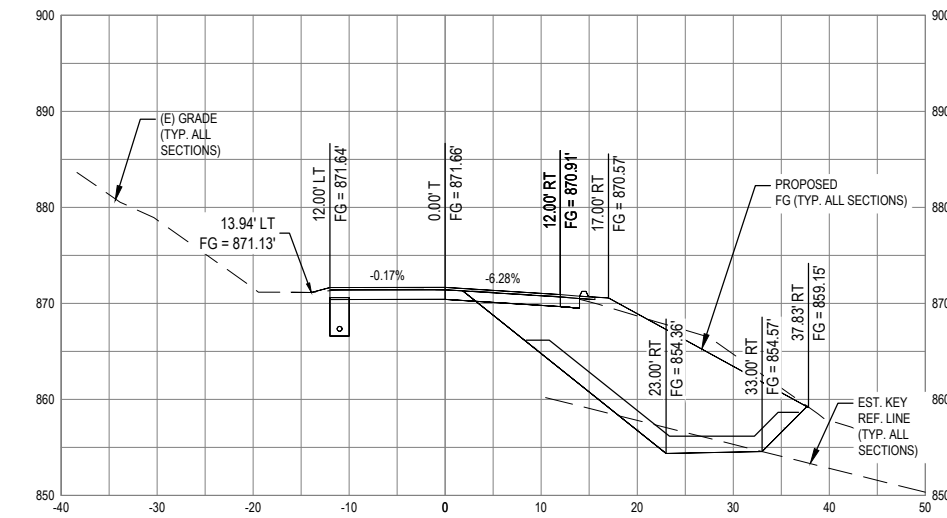
SHEET 46 OF 55



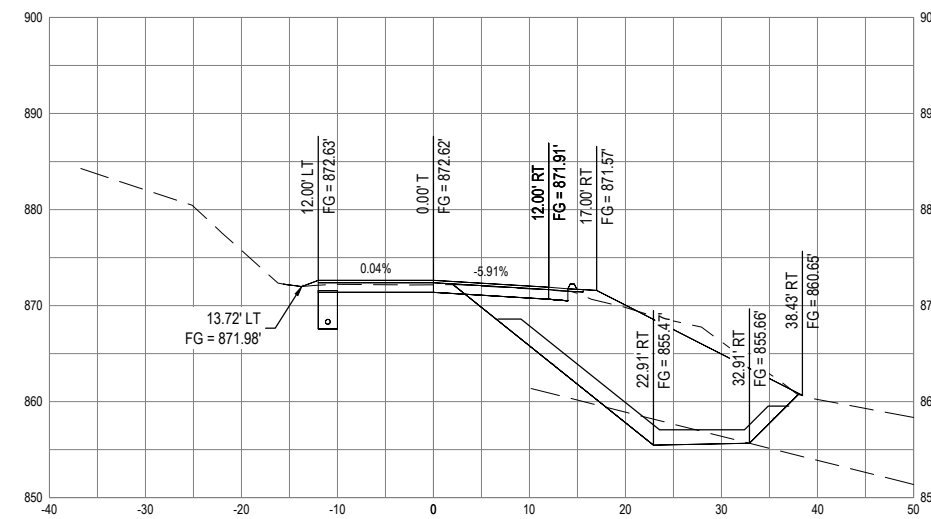
SECTION STA "R" 9+80



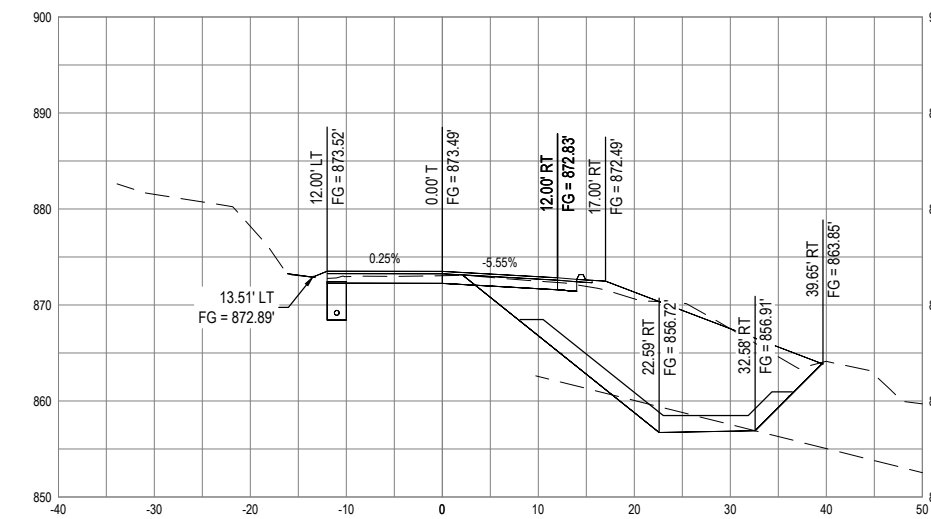
SECTION STA "R" 10+00



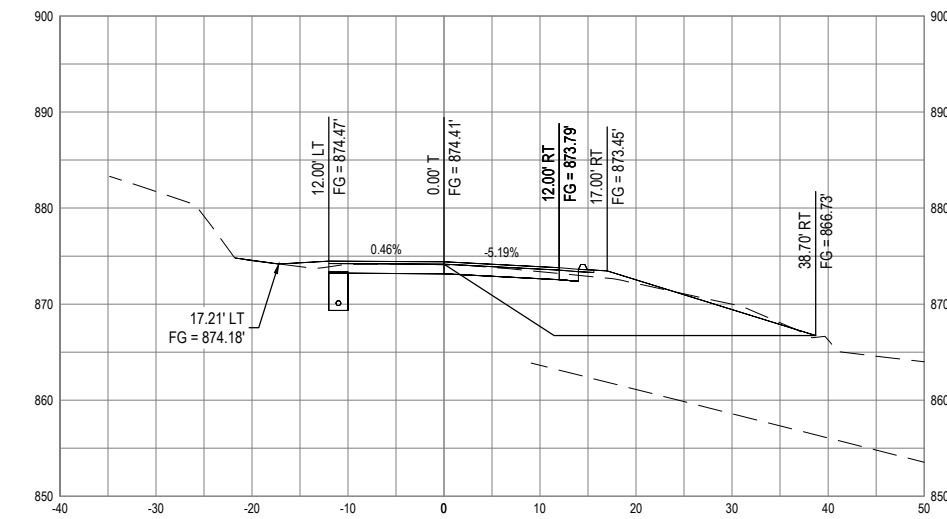
SECTION STA "R" 10+20



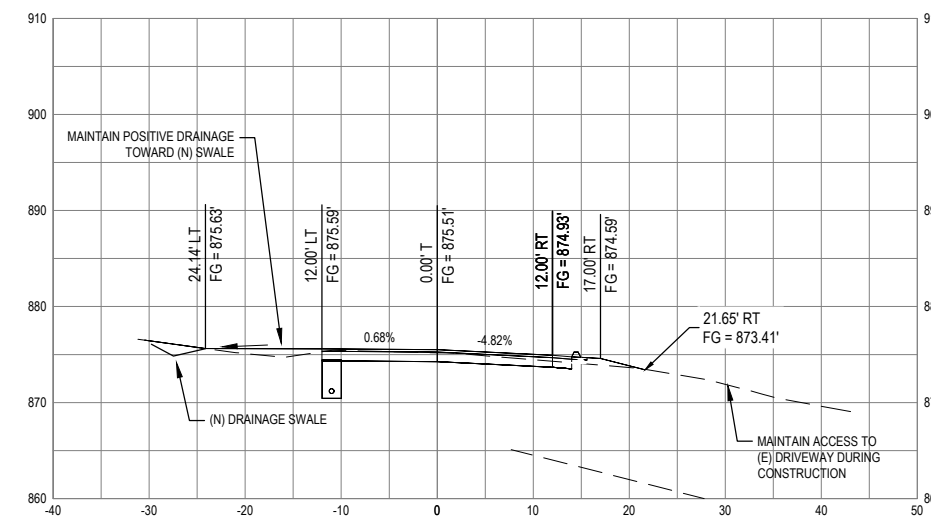
SECTION STA "R" 10+40



SECTION STA "R" 10+60



SECTION STA "R" 10+80



SECTION STA "R" 11+00



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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 2.42 SURVEY CONTROL PLAN</b>

SHEET  
47  
OF  
55

**SURVEY CONTROL NOTES**

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR A ROAD FAILURE AT PM 2.42 OF ELK CREEK ROAD (CO. RD. NO. C6D060), HUMBOLDT COUNTY, CA. THIS SURVEY REFLECTS CONDITIONS ON THE SITE AT TIME OF SURVEY; FIELD WORK WAS PERFORMED MAY 17 AND JULY 09, 2019.
2. UNDERGROUND UTILITIES RESEARCH WAS NOT PERFORMED. NO EVIDENCE OF UNDERGROUND UTILITIES WAS OBSERVED ASIDE FROM THE STORM DRAIN CULVERT SHOWN HEREON. SEE UNDERGROUND UTILITY NOTE HEREON.
3. 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 USED FOR HORIZONTAL POSITIONS SHOWN HEREON. THE MAPPING ANGLE IS 1 DEGREE 11 MINUTES 35 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 0.99989487 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR ARE TAKEN AT CONTROL POINT NUMBER 51, A 12" SPIKE. ELEVATIONS ARE NAVD 88 DATUM BASED ON OPUS SOLUTION UTILIZING THE GEOID 12B MODEL: AN ELEVATION OF 1016.47' FEET WAS MEASURED AT THE AFOREMENTIONED CONTROL POINT 51.
4. 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.
5. RIGHT OF WAY INFORMATION SHOWN HEREON IS BASED ON BOOK 30 OF SURVEYS, PAGE 33. THE DEED REFERENCES SHOWN REFER TO PARCELS 1 AND 2 OF SAID SURVEY. THREE MONUMENTS SET BY THIS SURVEY WERE FOUND; HOWEVER, TWO OF THE THREE ARE IN THE SLIDE AREA (POINTS 405 & 408) AND DO NOT FIT RECORD BEARINGS OR DISTANCE. THE RIGHT OF WAY SHOWN HOLDS THE HORIZONTAL POSITION OF FOUND MONUMENT NUMBER 401. THE RECORD DATA FROM THIS SURVEY WAS ROTATED CLOCKWISE BY THE MAPPING ANGLE OF 1 DEGREE 11 MINUTES 35 SECONDS TO OBTAIN GRID BEARINGS (PER NOTE ON SURVEY IT IS ON TRUE BEARING BASED ON SOLAR OBSERVATIONS). MONUMENTS SET ON SOUTH END OF THE SURVEY WHICH FALL OUTSIDE OF PROJECT AREA WERE SEARCHED FOR AND NOT FOUND. THEY FALL IN AREA OF NEWER STORM DRAIN CROSSING. CENTERLINE MONUMENTS DESCRIBED AS "TO BE SET" BY SAID SURVEY WERE ALSO SEARCHED FOR AND NOT FOUND.
6. THE RIGHT OF WAY SHOWN OUTSIDE THE PORTION DESCRIBED ABOVE IS FORTY FEET IN WIDTH CENTERED ON THE EXISTING CENTERLINE OF THE ROAD. NO DEEDED, DEDICATED, OR ROAD REGISTER RIGHT OF WAY WAS FOUND FOR THIS PORTION IN THE COURSE OF RESEARCH FOR THIS PROJECT. RIGHT OF WAY IS THEREFORE AN IMPLIED COMMON LAW DEDICATION VIA LONGTIME PUBLIC USE AND MAINTENANCE BY THE COUNTY. NO BOUNDARIES WERE DETERMINED IN THE COURSE OF THIS SURVEY. DEEDS SHOWN CALL TO THE CENTER OF THE ROAD.

POINT TABLE				
POINT#	EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION
50	6052913.76	1995919.93	1040.40	CP_SPK
51	6052753.88	1996189.34	1016.47	CP_SPK
52	6052781.45	1996115.45	1020.72	CP_SPK
53	6052805.12	1996064.39	1025.64	CP_SPK
54	6052844.18	1995975.45	1036.25	CP_SPK

ELK CREEK ROAD PM 2.42 CONSTRUCTION CENTERLINE GEOMETRY - ALIGNMENT "R"						
Segment	Type	Length	Radius	Direction	Start Station	End Station
C1	CURVE	127.27	167.00		"R" 1+00.09	"R" 2+27.36
L1	LINE	107.13	-	S26° 31' 46.14"E	"R" 2+27.36	"R" 3+34.48
C2	CURVE	89.51	217.00		"R" 3+34.48	"R" 4+23.99
L2	LINE	43.48	-	S50° 09' 43.76"E	"R" 4+23.99	"R" 4+67.47

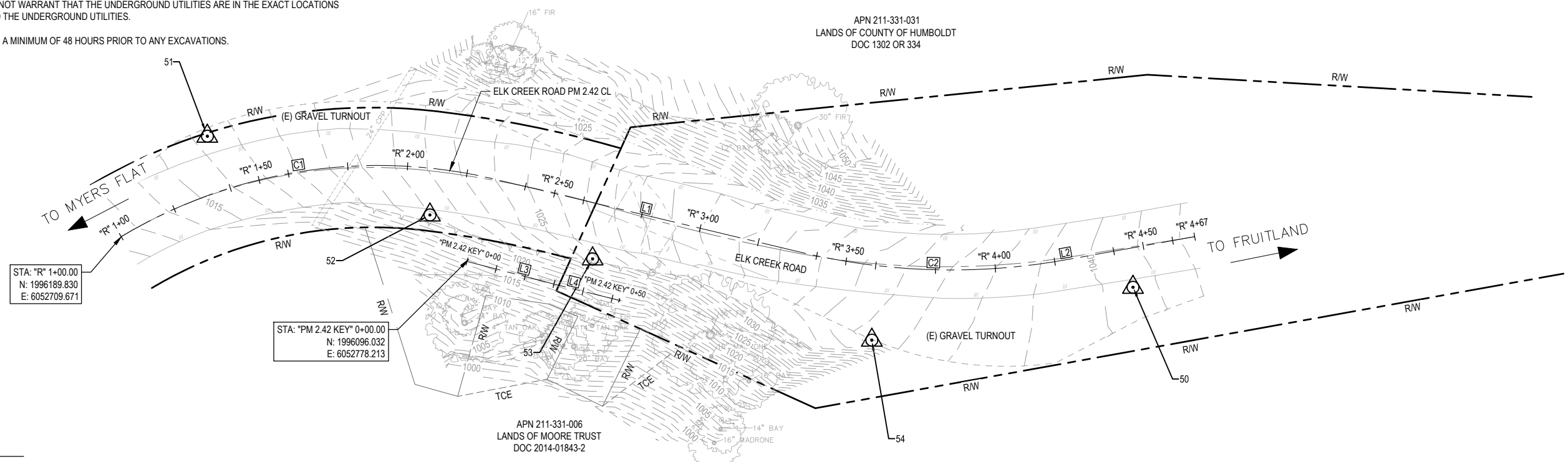
PM 2.42 CONSTRUCTION KEYWAY TOE GEOMETRY - "PM 2.42 KEY" ALIGNMENT						
Segment	Type	Length	Radius	Direction	Start Station	End Station
L3	LINE	30.09	-	S25° 25' 06.09"E	"PM 2.42 KEY" 0+00.00	"PM 2.42 KEY" 0+30.09
L4	LINE	22.76	-	S25° 52' 31.91"E	"PM 2.42 KEY" 0+30.09	"PM 2.42 KEY" 0+52.84

**GENERAL NOTES**

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

**UNDERGROUND UTILITY NOTES**

1. UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR.
2. 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.
3. CALL UNDERGROUND SERVICE ALERT (USA) 1-800-642-2444 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.



**LEGEND**

- TEMPORARY CONTROL POINT
- ELK CREEK ROAD R/W
- TCE
- DRAINAGE AND EMBANKMENT R/W
- ALIGNMENT LINE





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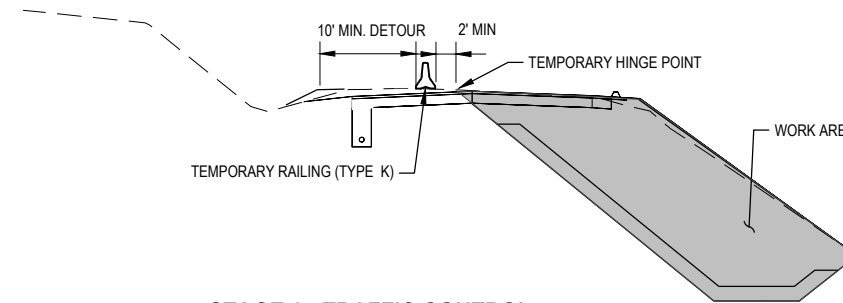
ROAD NAME: ELK CREEK ROAD	DESIGN SECTION: ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 2.42 TRAFFIC CONTROL PLAN, STAGING/STOCKPILE LOCATIONS AND STAGE CONSTRUCTION</b>

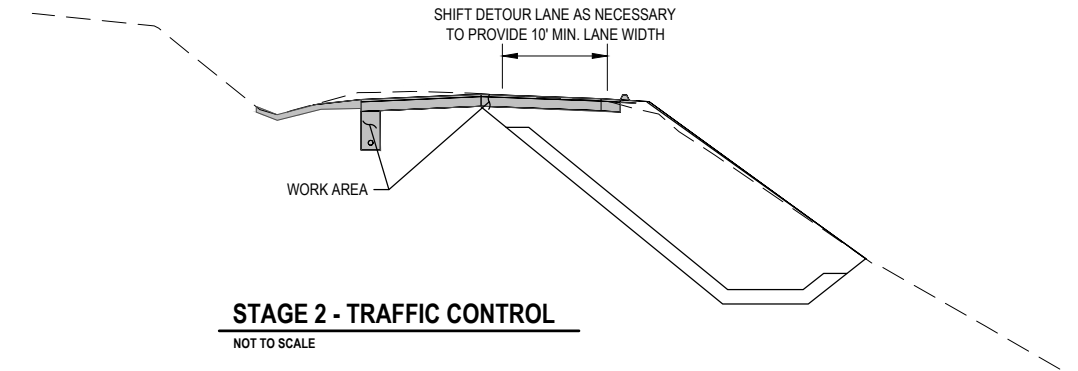
SHEET  
48  
OF  
55

**CONSTRUCTION SIGN NOTES:**

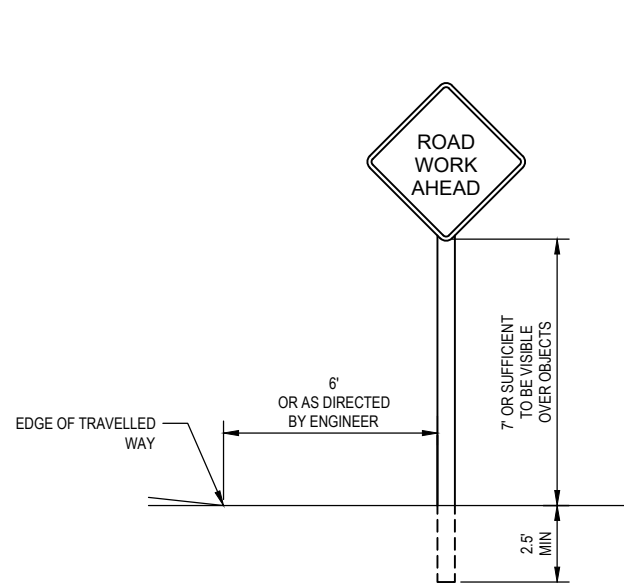
- EXACT SIGN LOCATIONS AND POSITIONS TO BE APPROVED BY THE ENGINEER.
- ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
- ALTERNATIVE POST CONFIGURATION TO BE APPROVED BY COUNTY ENGINEER.
- REFER TO TABLE 6H-3 RECOMMENDED ADVANCE WARNING SIGN SPACING FOR RURAL ROAD TYPE.
- REFER TO FIGURE 6H-11 FOR LANE CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (TA-11).
- REFER TO FIGURE 6H-12 FOR LANE CLOSURE ON A TWO-LANE ROAD USING TRAFFIC CONTROL SIGNALS (TA-12)
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD) AND CALTRANS 2018 STANDARD PLANS.
- MAINTAIN ALL SIGNS THROUGHOUT DURATION OF CONSTRUCTION.
- MAINTAIN ONE TRAVEL LANE AT ALL TIMES.
- PROVIDE FLAGGERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION.



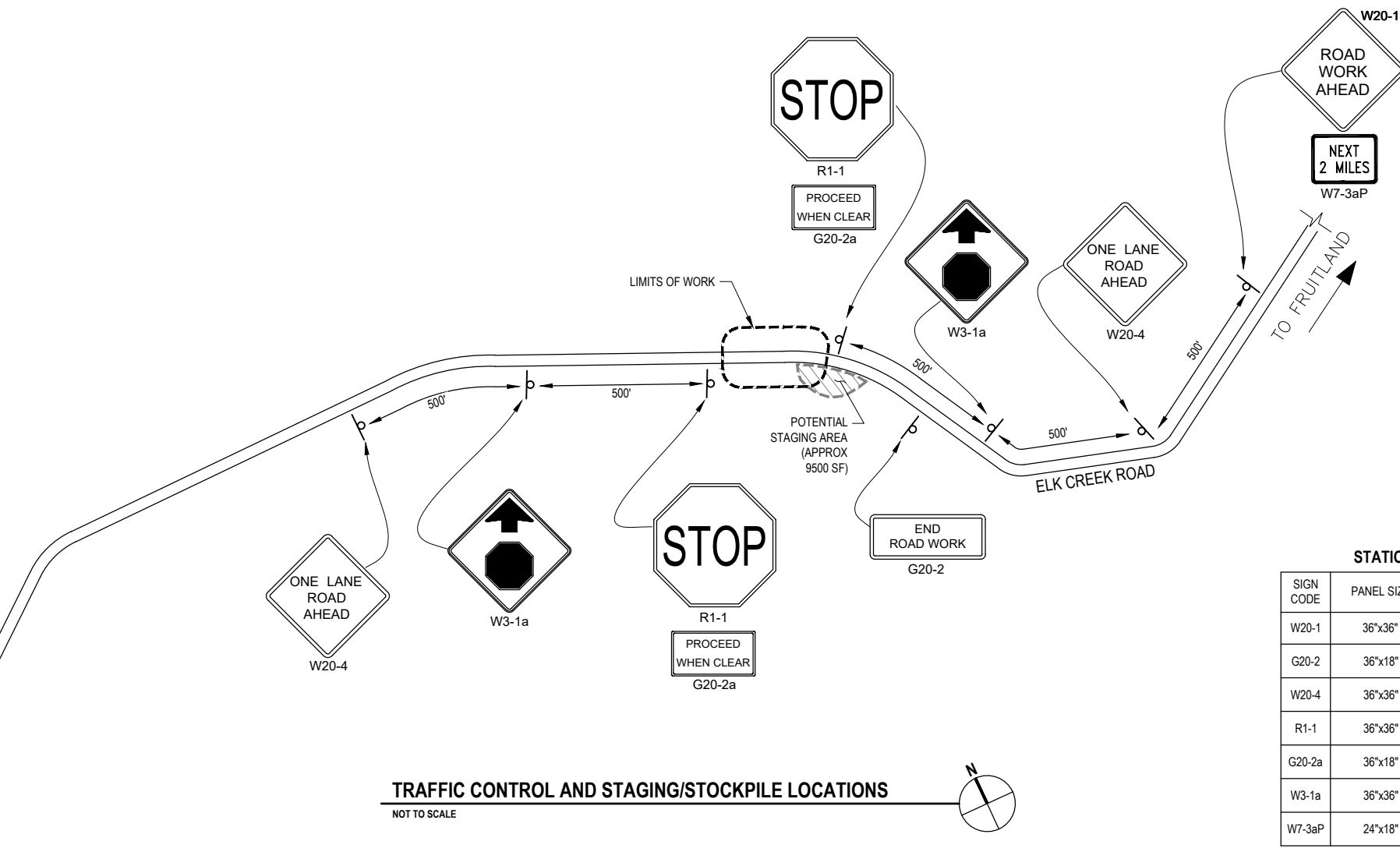
**STAGE 1 - TRAFFIC CONTROL**  
NOT TO SCALE



**STAGE 2 - TRAFFIC CONTROL**  
NOT TO SCALE



TYPICAL STATIONARY CONSTRUCTION AREA SIGNS



**TRAFFIC CONTROL AND STAGING/STOCKPILE LOCATIONS**  
NOT TO SCALE

**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"	1
G20-2	36"x18"	END ROAD WORK	(1) 4"x4"	1
W20-4	36"x36"	ONE LANE ROAD AHEAD	(1) 4"x4"	2
R1-1	36"x36"	STOP	(1) 4"x4"	2
G20-2a	36"x18"	PROCEED WHEN CLEAR		2
W3-1a	36"x36"	STOP AHEAD	(1) 4"x4"	2
W7-3aP	24"x18"	NEXT 2 MILES	(1) 4"x4"	1

**LEGEND**

- SIGN
- TRAFFIC SIGNAL
- WORK AREA LIMITS
- STAGING AREA LIMITS





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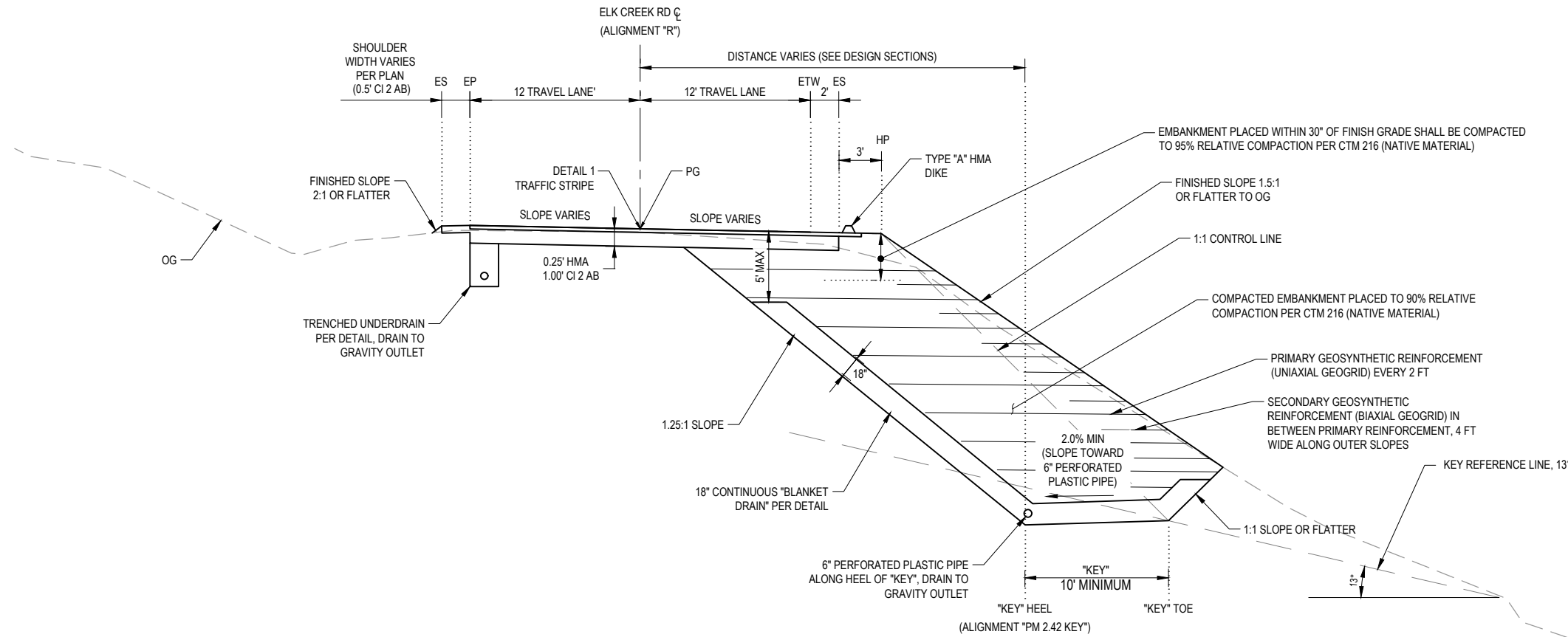
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PLOT DATE:	05/20/2022

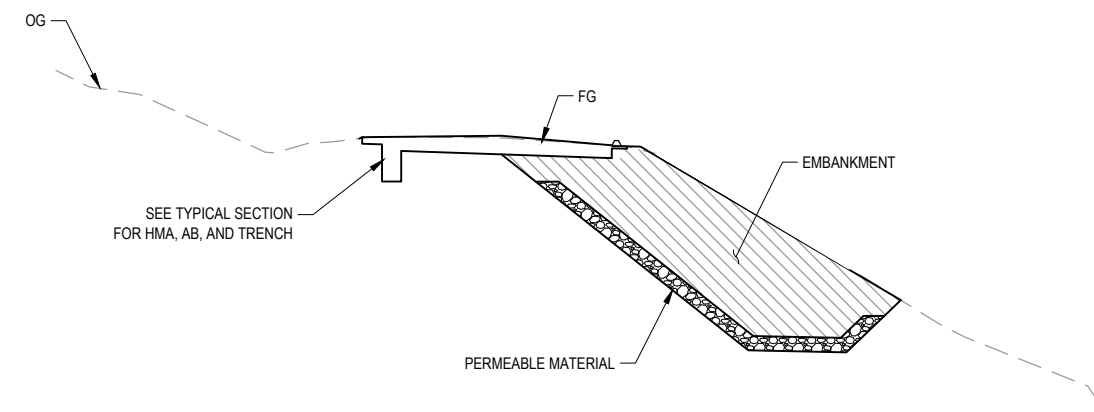
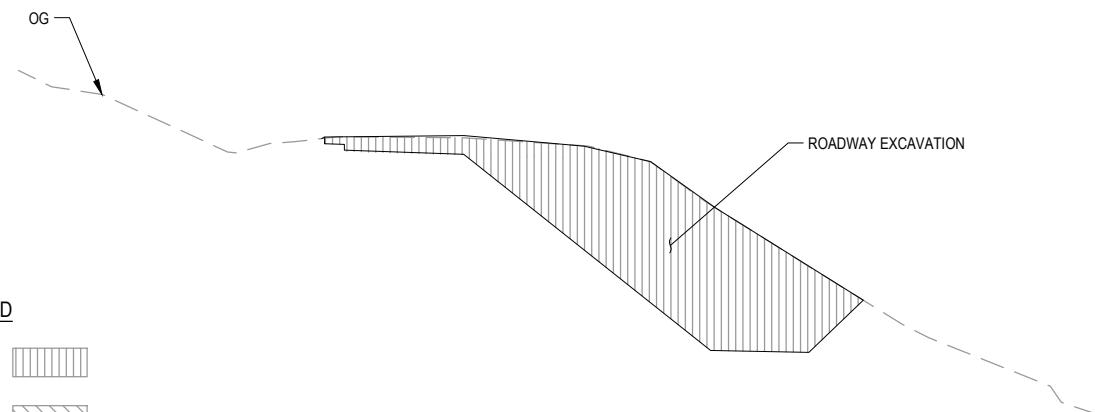
DESIGN SECTION	ENGINEERING
DESIGNED BY:	C. HAYES
DRAWN BY:	C. HAYES
REVIEWED BY:	J. SVEHLA
APPROVED BY:	J. SVEHLA

COUNTY OF HUMBOLDT	DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
PM 2.42 TYPICAL SECTIONS	

SHEET 49 OF 55



**TYPICAL SECTION ELK CREEK ROAD PM 2.42**  
NOT TO SCALE STA "R" 1+93.73 - STA "R" 3+20



**LEGEND**

- ROADWAY EXCAVATION
- EMBANKMENT
- PERMEABLE MATERIAL

**LIMITS OF PAYMENT - CUT**  
NOT TO SCALE

**LIMITS OF PAYMENT - FILL**  
NOT TO SCALE



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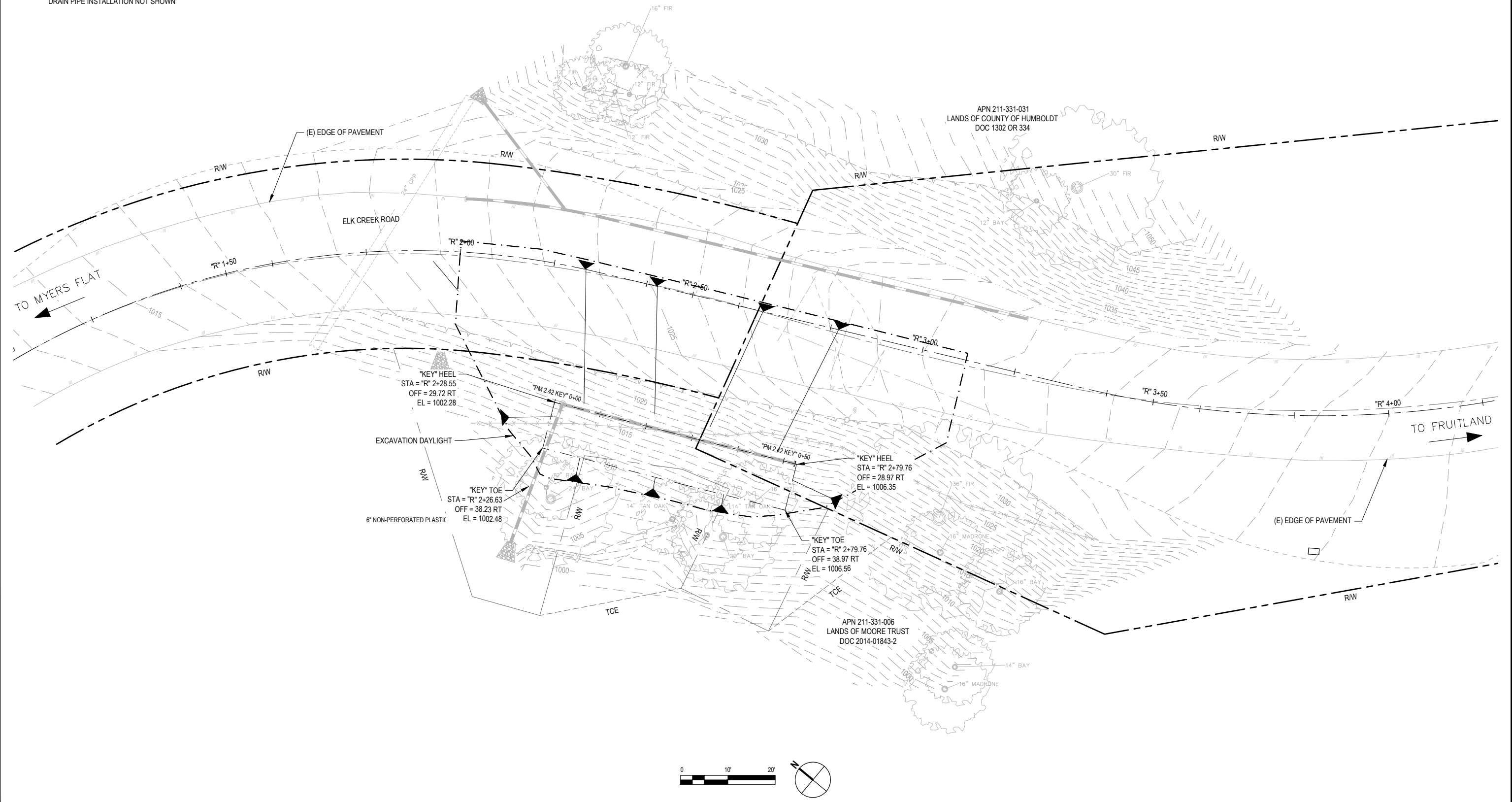
COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
**PM 2.42 KEY EXCAVATION PLAN**

SHEET  
50  
OF  
55

**LEGEND**

- TOP OF EXCAVATION
- BOTTOM OF EXCAVATION
- REMOVE TREE

NOTE: LIMITS OF GRADING FOR STORM DRAIN PIPE INSTALLATION NOT SHOWN





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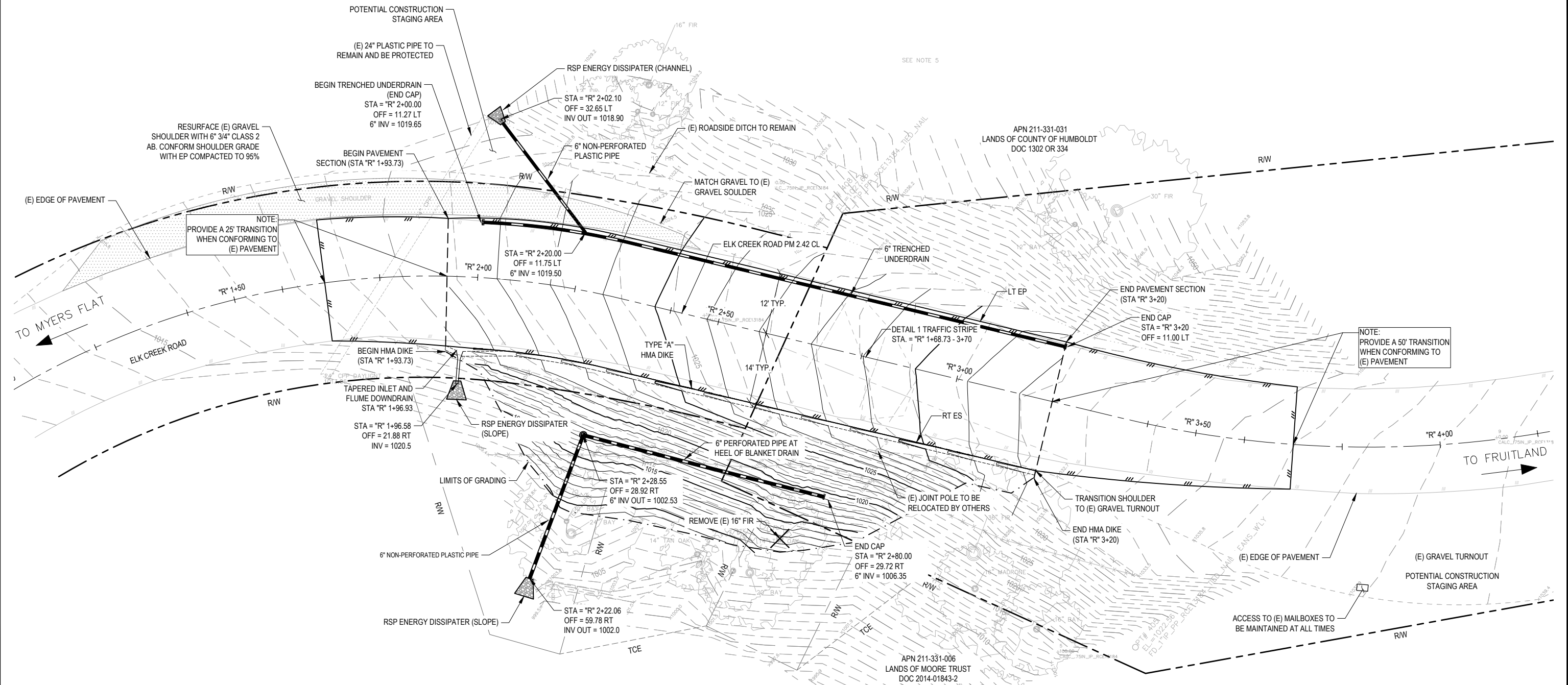
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42	
PM 2.42 ROADWAY PLAN	

SHEET  
51  
OF  
55

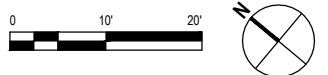


NOTE:  
PROVIDE A 25' TRANSITION  
WHEN CONFORMING TO  
(E) PAVEMENT

NOTE:  
PROVIDE A 50' TRANSITION  
WHEN CONFORMING TO  
(E) PAVEMENT

**LEGEND**

- EDGE OF HMA PAVEMENT SECTION
- TYPE "E" CASE "R" HMA DIKE
- LIMITS OF GRADING
- REMOVE TREE
- RSP ENERGY DISSIPATER
- STORM DRAIN PIPE





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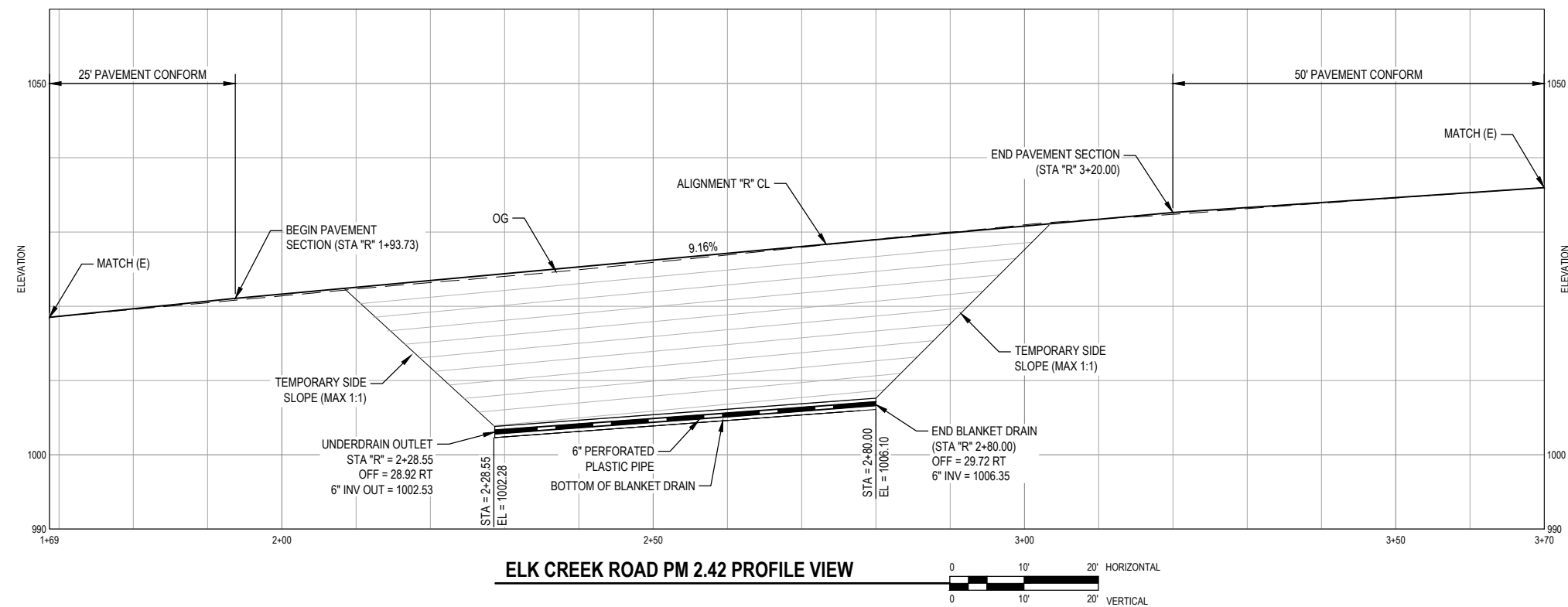
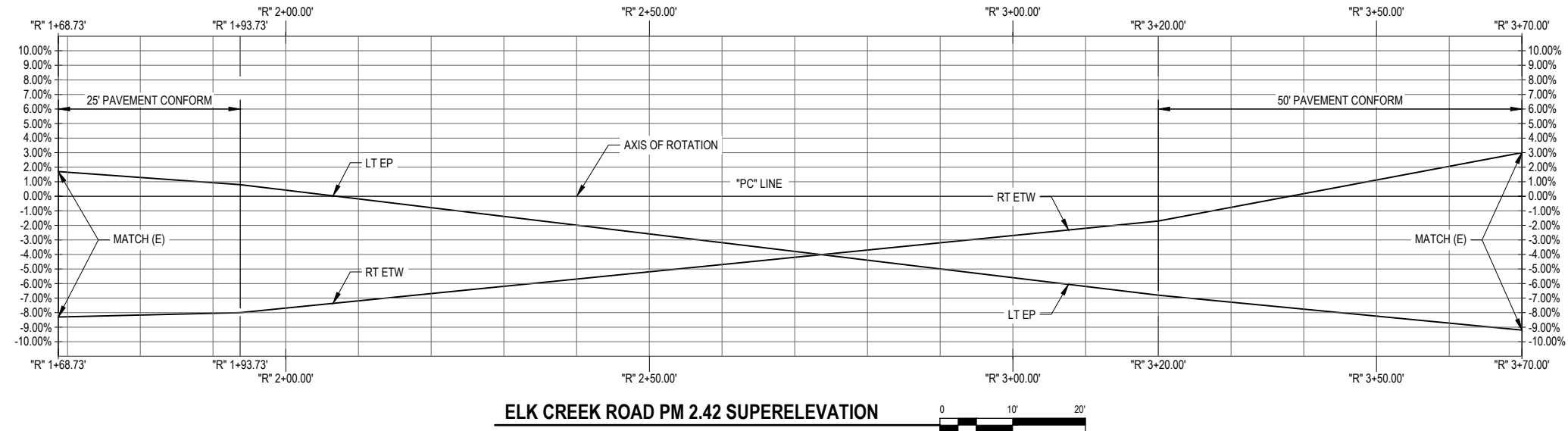
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
<b>PM 2.42 ROADWAY PROFILE AND SUPERELEVATION</b>

SHEET  
52  
OF  
55

ROADWAY GEOMETRY - PM 2.42					
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EP ELEVATION	CROWN ELEVATION	RIGHT ETW ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
"R" 1+93.73	0.80%	1021.16	1021.06	1020.10	-8.00%
"R" 3+20	-6.80%	1031.80	1032.62	1032.82	-1.70%

Note: Negative cross slopes indicate downwards sloping away from centerline

### ROADWAY ELEVATIONS



NOTE: THIS PLAN IS ACCURATE FOR EROSION CONTROL ONLY



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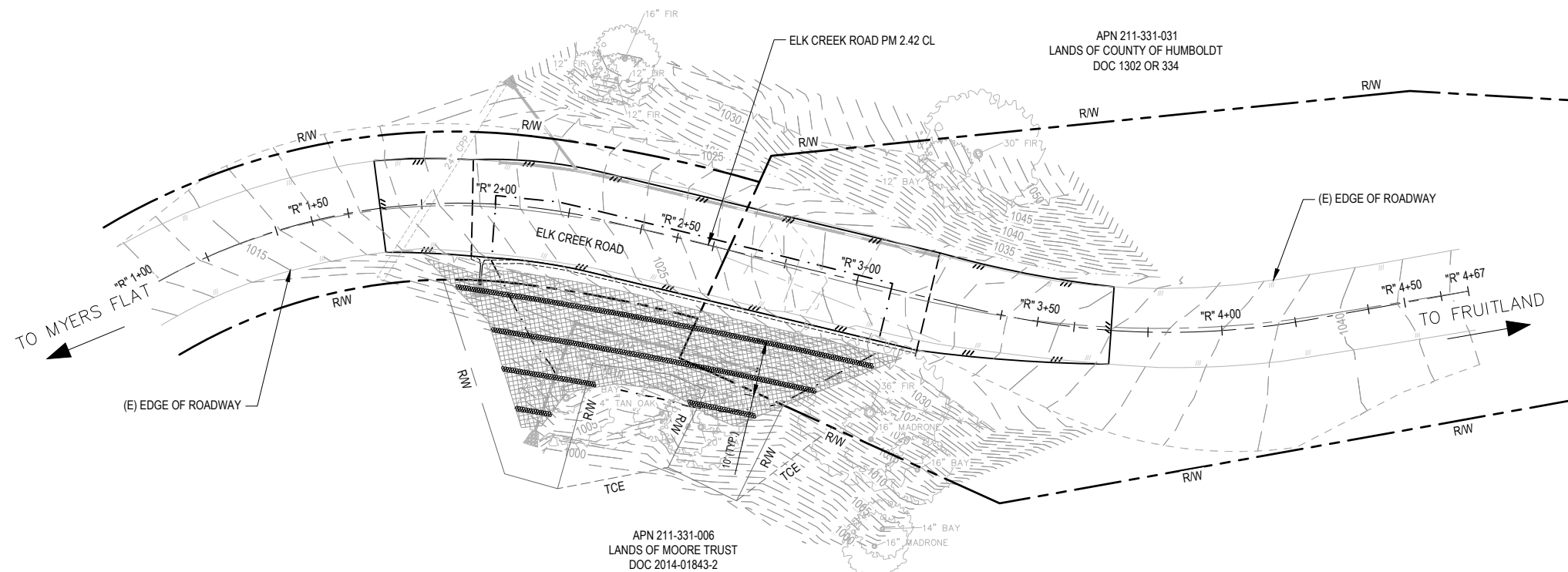
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COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
PM 2.42 EROSION CONTROL PLAN

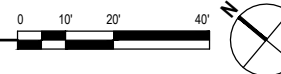
SHEET 53 OF 55

GENERAL NOTES

1. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE, ENTERS THE EXISTING STORMWATER SYSTEMS, OR ENTERS SENSITIVE AREAS. BMPs ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
2. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.



ELK CREEK ROAD PM 2.42 EROSION CONTROL PLAN



LEGEND

- DRY SEED UNDER ROLLED EROSION CONTROL PRODUCT
- FIBER ROLLS



GHD Inc.  
718 Third Street  
Eureka California 95501 USA  
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com



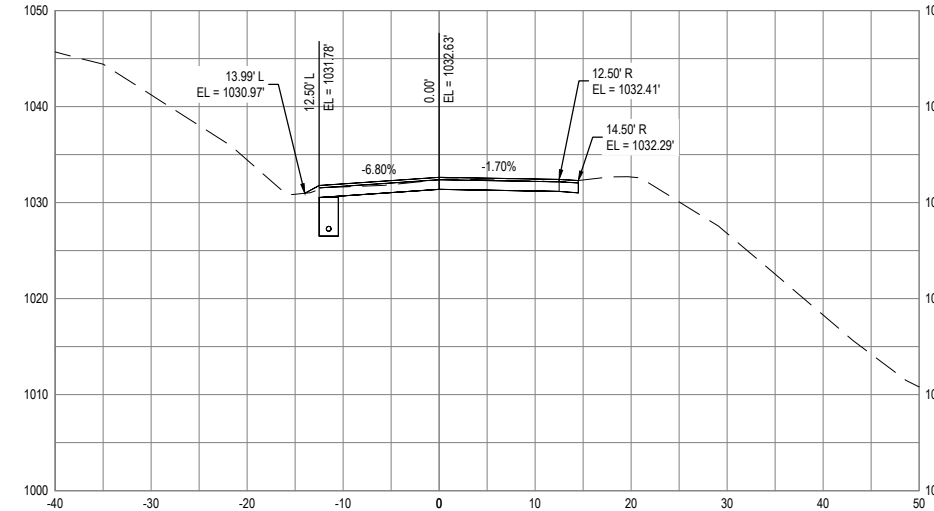
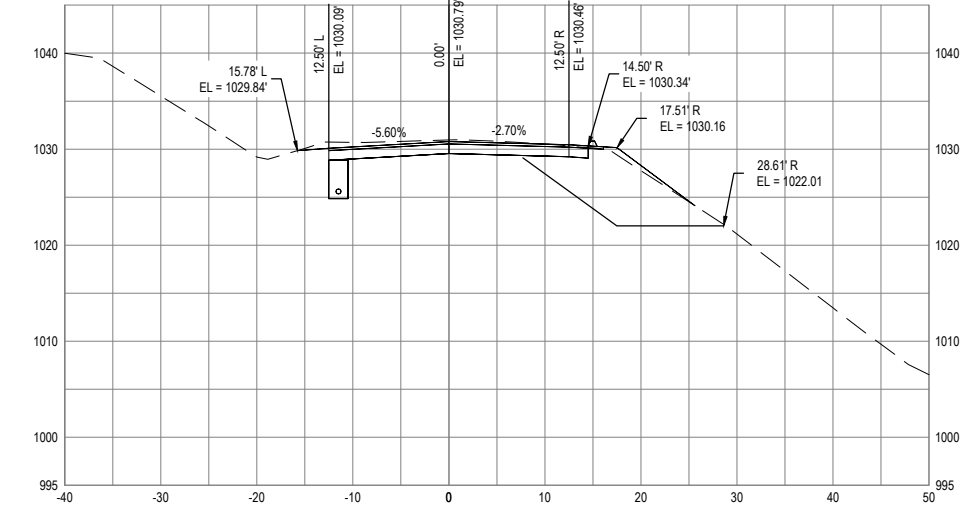
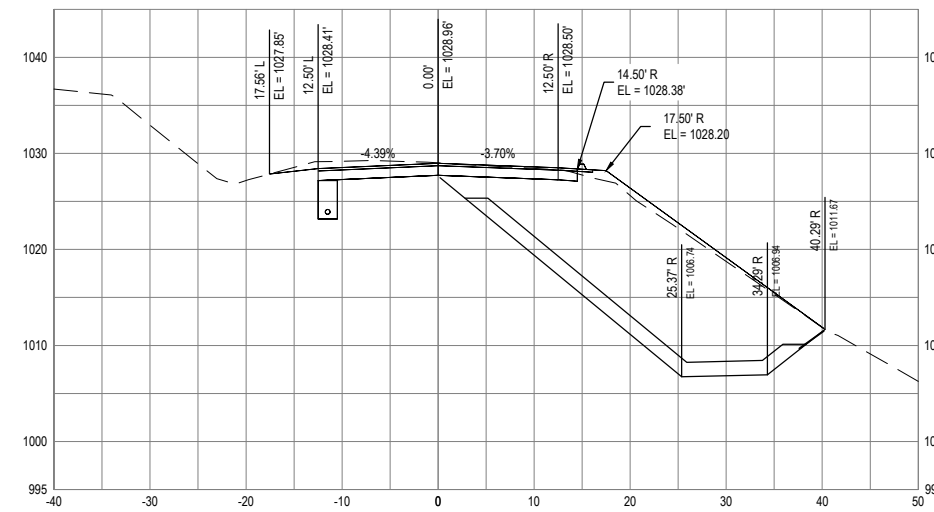
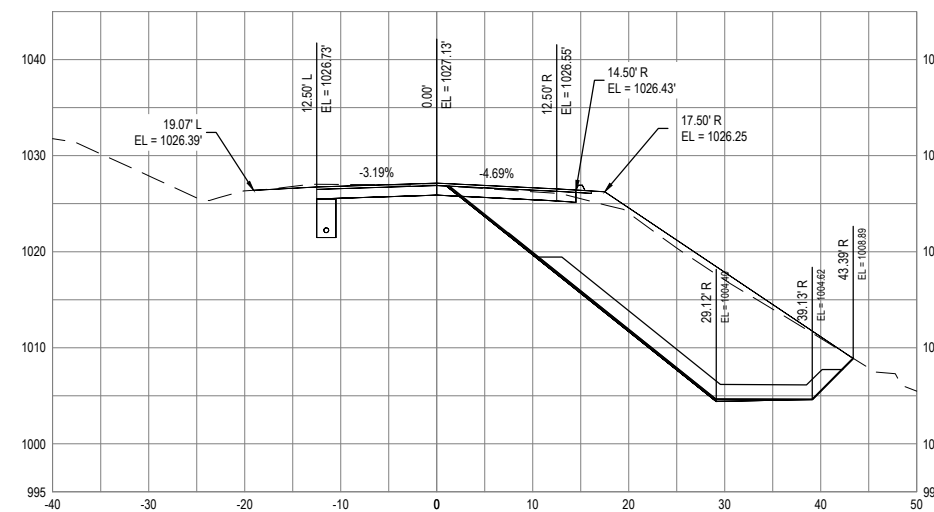
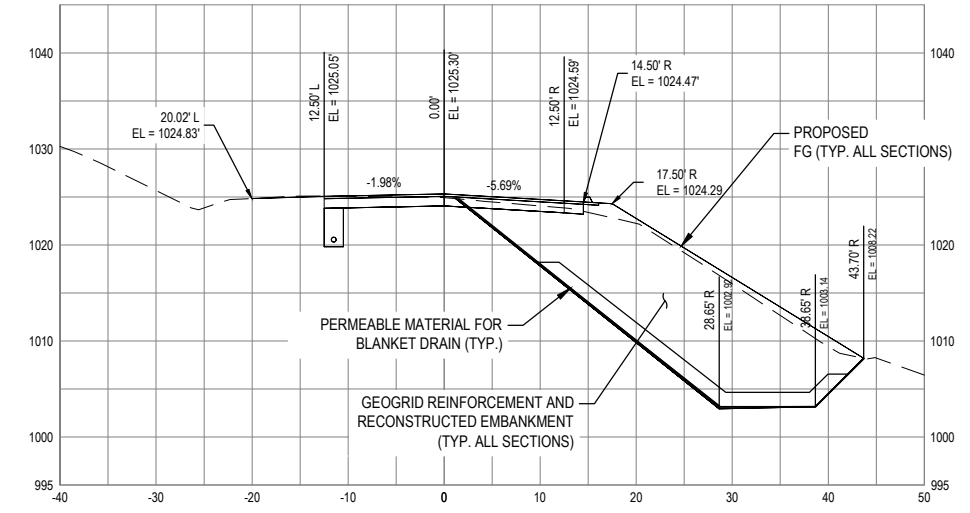
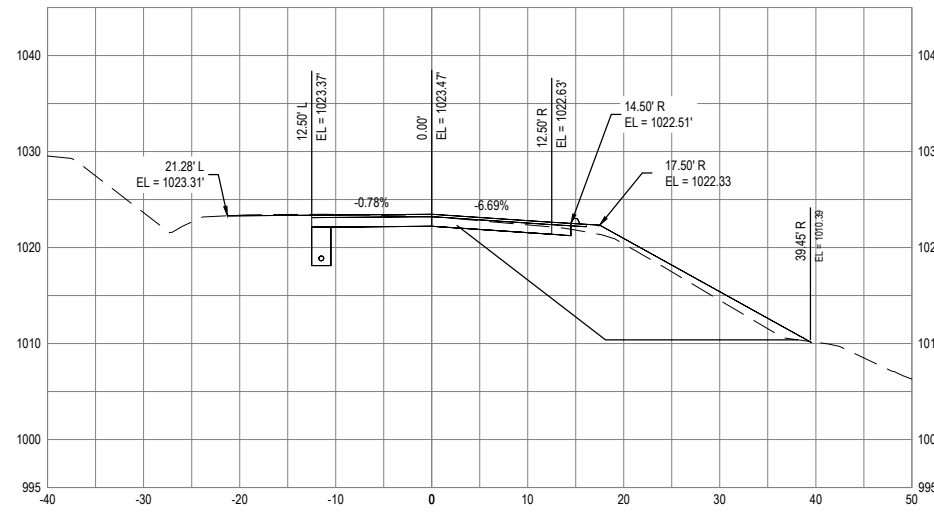
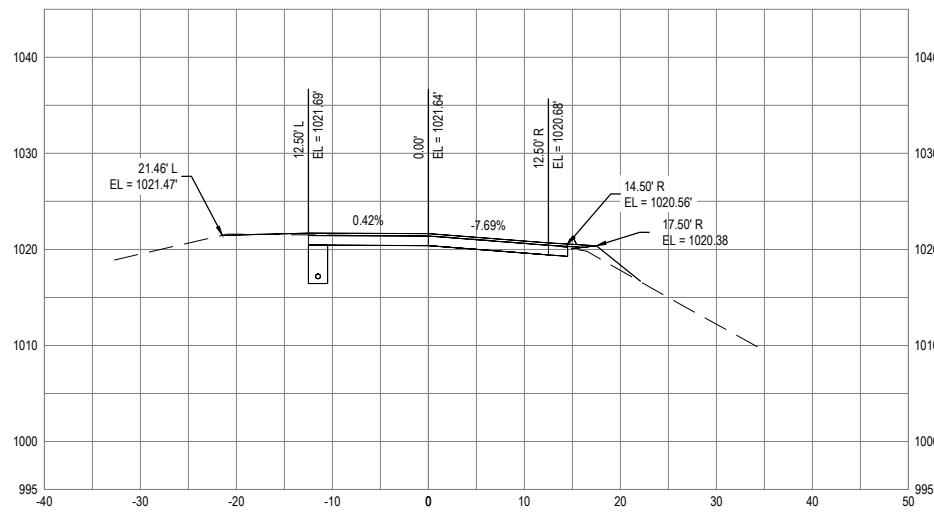
BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: ELK CREEK ROAD	DESIGN SECTION ENGINEERING
ROAD NO: C6D060	DESIGNED BY: C. HAYES
MILE POST: 0.95 - 2.42	DRAWN BY: C. HAYES
PROJECT NO.: ER-32L0(237)	REVIEWED BY: J. SVEHLA
CONTRACT NO.: 217236	APPROVED BY: J. SVEHLA
PLOT DATE: 05/20/2022	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42
PM 2.42 DESIGN SECTIONS

SHEET 54 OF 55





GHD Inc.  
718 Third Street  
Eureka California 95501 USA  
T 1 707 443 8326 F 1 707 444 8330 W www.ghd.com

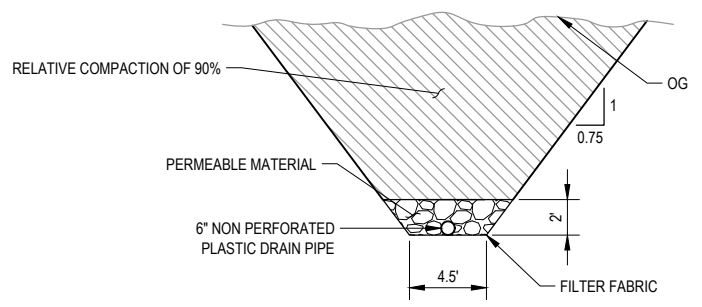


BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

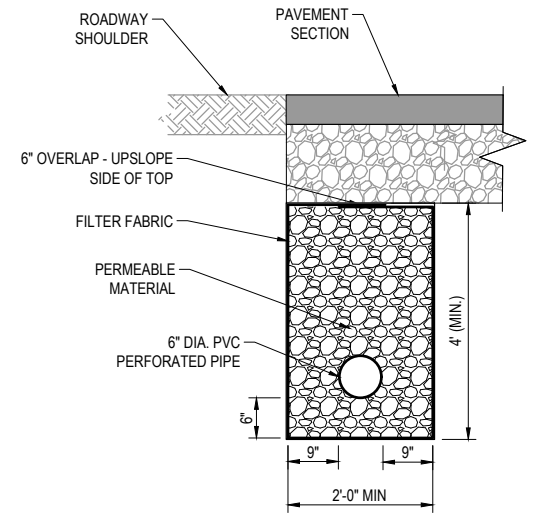
ROAD NAME: ELK CREEK ROAD  
ROAD NO: C6D060  
MILE POST: 0.95 - 2.42  
PROJECT NO.: ER-32L(237)  
CONTRACT NO.: 217236  
PLOT DATE: 05/20/2022

DESIGN SECTION ENGINEERING  
DESIGNED BY: C. HAYES  
DRAWN BY: C. HAYES  
REVIEWED BY: J. SVEHLA  
APPROVED BY: J. SVEHLA

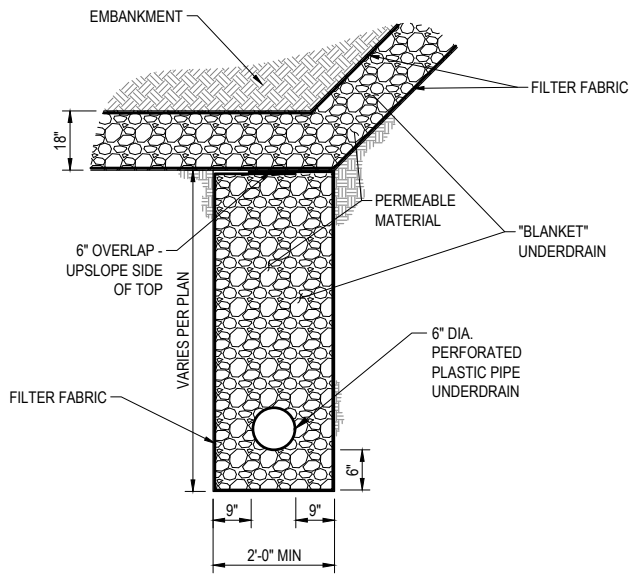
COUNTY OF HUMBOLDT  
DEPARTMENT OF PUBLIC WORKS  
STORM DAMAGE REPAIR ELK CREEK ROAD PM 0.95-2.42  
0.95 - 2.42 CONSTRUCTION DETAILS  
SHEET 55 OF 55



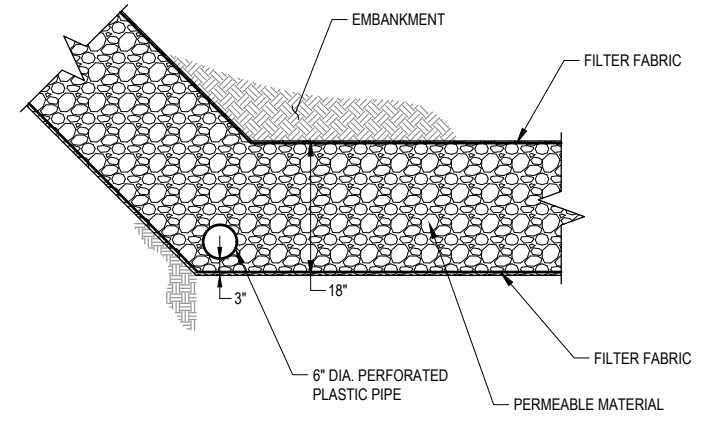
**UNDERDRAIN OUTLET DETAIL**  
NOT TO SCALE



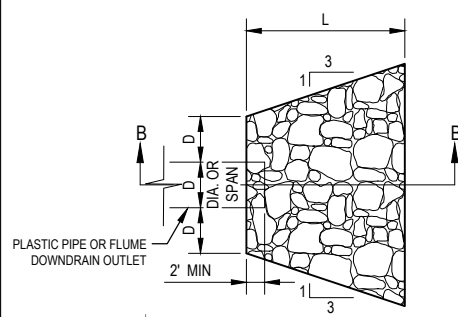
**TYPICAL TRENCHED UNDERDRAIN (ROADSIDE)**  
NOT TO SCALE



**TYPICAL "BLANKET DRAIN" DETAIL (ELK CREEK ROAD PM 1.10)**  
NOT TO SCALE

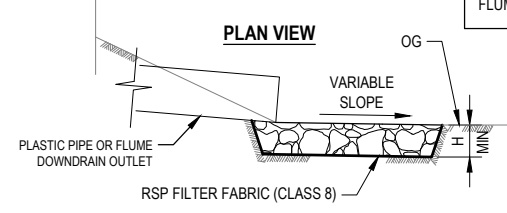


**TYPICAL "BLANKET DRAIN" DETAIL (ELK CREEK ROAD PM 0.95, 1.85, 1.90, 2.00 & 2.42)**  
NOT TO SCALE

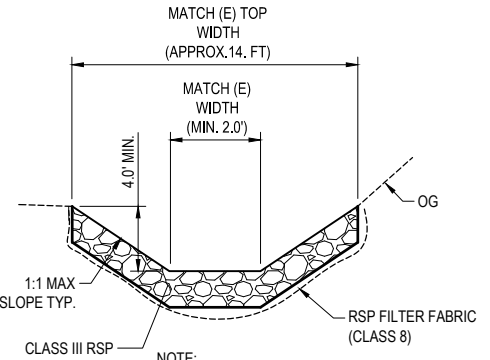


CULVERT SIZE D (inches)	RSP CLASS	LENGTH OF DISSIPATER L (feet)	DEPTH OF DISSIPATER H (feet)	ESTIMATED RSP QUANTITY (CY)
6" PIPE	2	4	1.5	1
FLUME DOWNDRAIN	2	6	1.5	1

- NOTE:
- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.
  - RSP FABRIC WILL NOT BE MEASURED FOR PAYMENT.

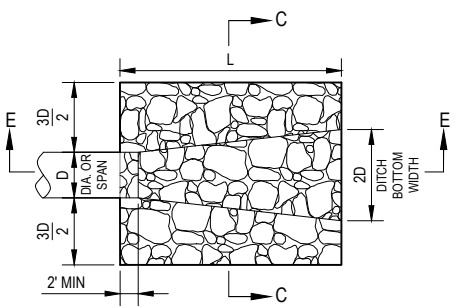


**RSP ENERGY DISSIPATER (SLOPE)**  
NOT TO SCALE

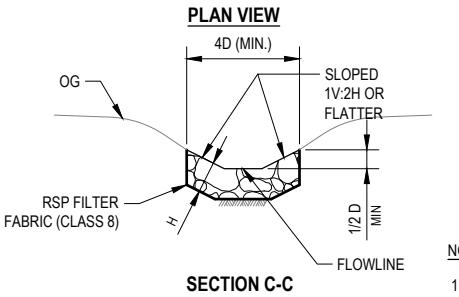


**ROCK LINED CHANNEL DETAIL**  
NOT TO SCALE

- NOTE:
- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.

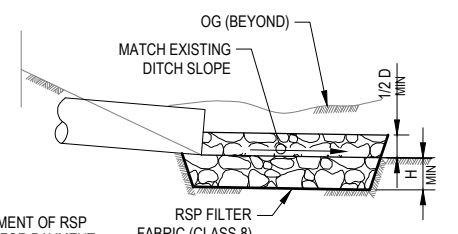


CULVERT SIZE D (inches)	RSP CLASS	LENGTH OF DISSIPATER L (feet)	DEPTH OF DISSIPATER H (feet)	ESTIMATED RSP QUANTITY (CY)
6	2	4	1.5	1
18	3	10	1.5	4
24	3	40 (SEE PLAN)	1.5	9

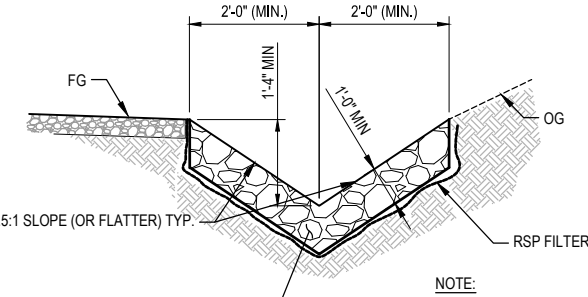


**RSP ENERGY DISSIPATER (CHANNEL)**  
NOT TO SCALE

- NOTE:
- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.

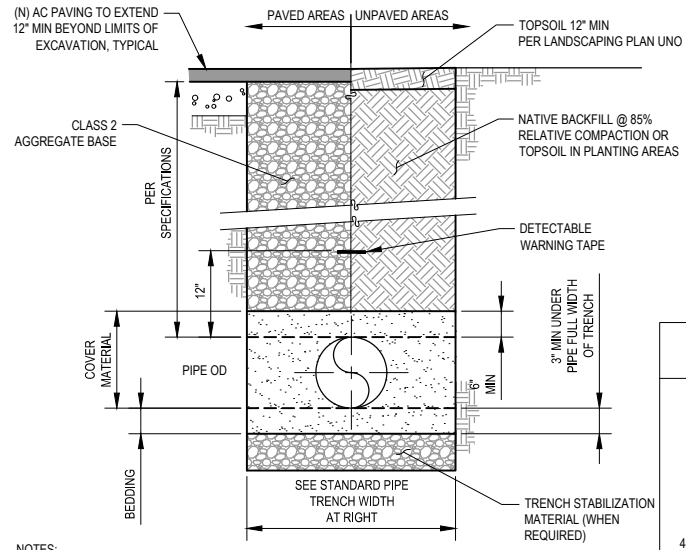


**SECTION E-E**



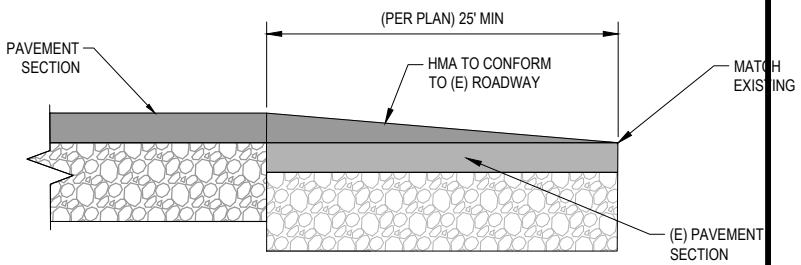
**TYPICAL ROCK LINED DITCH DETAIL**  
NOT TO SCALE

- NOTE:
- EXCAVATION FOR PLACEMENT OF RSP WILL NOT BE MEASURED FOR PAYMENT.



- NOTES:
- WIDER TRENCHES MAY REQUIRE HIGHER STRENGTH PIPE AND/OR SPECIAL BEDDING.
  - DIFFERING TRENCH WIDTHS REQUIRE PRIOR APPROVAL OF ENGINEER.
  - IN MAKING EXCAVATIONS FOR THIS PROJECT, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING & INSTALLING ADEQUATE SHEETING, SHORING & BRACING AS MAY BE NECESSARY AS A PRECAUTION AGAINST SLIDES OR CAVE-INS, AND TO PROTECT ALL (E) IMPROVEMENTS OF ANY KIND, EITHER ON PUBLIC OR PRIVATE PROPERTY, FULLY FROM DAMAGE.
  - SATISFACTORY NATIVE BACKFILL MATERIAL USED AS UTILITY TRENCH BACKFILL BELOW UNPAVED AREAS SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
  - 2-SACK SLURRY BACKFILL MAY BE USED IN TRENCH WHEN MINIMUM PIPE COVER NOT POSSIBLE, WHEN APPROVED BY COUNTY'S REPRESENTATIVE.
  - DETECTABLE WARNING TAPE SHALL BE BRIGHT COLORED, CONTINUOUSLY PRINTED, MINIMUM 6" WIDE BY 4 MIL THICK, MANUFACTURED FOR DIRECT BURIAL.
  - FOR TRENCHING OUTSIDE OF LIMITS OF NEW IMPROVEMENTS OR NEW LANDSCAPING, GROUND SHALL BE RESTORED TO PRE-PROJECT CONDITIONS, WHICH MAY INCLUDE SEEDING AND/OR MULCHING.
  - WHEN TRENCH IS DUG INTO "OBVIOUS LOOSE" FINE GRAINED UNIFORM SANDS, DEEPEN THE TRENCH 12" BELOW THE DEPTH OF UTILITIES. REPLACE W/ 2-SACK SLURRY OR PEA GRAVEL.

**TYPICAL TRENCH DETAIL**  
NOT TO SCALE



**TYPICAL PAVEMENT CONFORM DETAIL**  
NOT TO SCALE

PIPE DIA "D"	MINIMUM "A"	MAXIMUM "A"
< 4"	3"	6"
4" TO 6"	6"	12"
6" TO 15"	8"	14"
16" TO 21"	10"	16"
24" TO 30"	12"	18"
33" TO 42"	15"	21"
48" & LARGER	18"	24"