



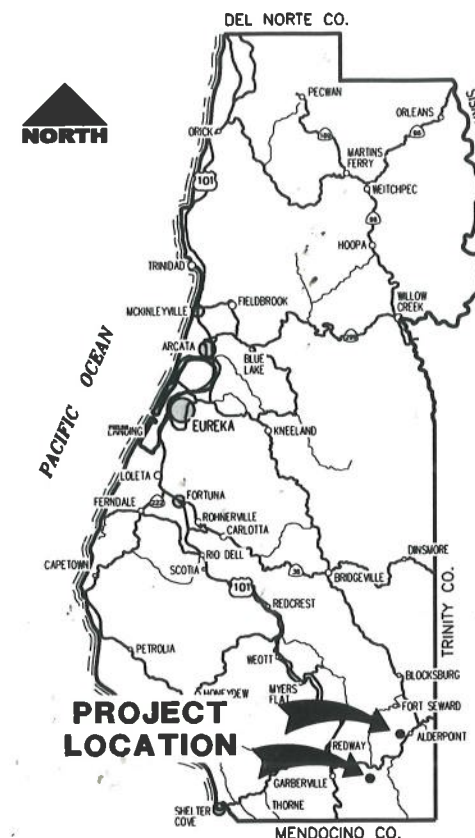
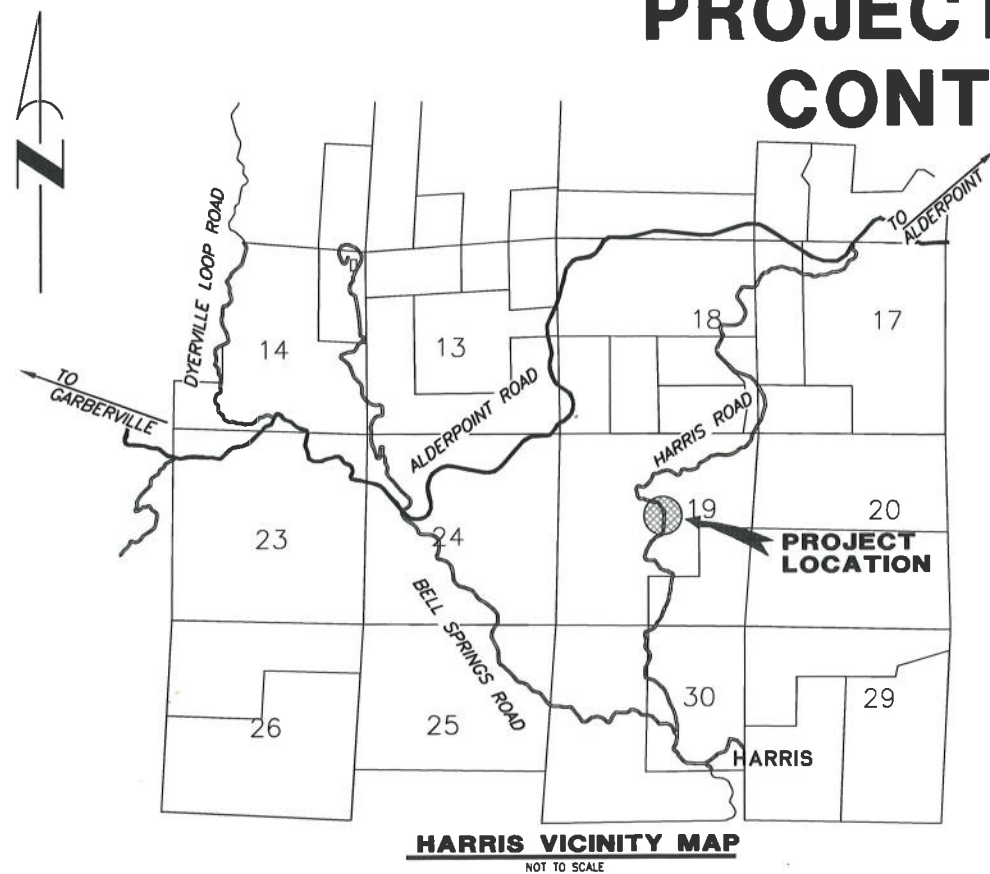
FEMA



Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
PROJECT PLANS FOR CONSTRUCTION OF
STORM DAMAGE REPAIRS TO
HARRIS RD (8B020) AT P.M. 1.16 AND
STEELHEAD RD (8C080) AT P.M. 1.00
PROJECT NO. FEMA 4301-DR-CA PW-1048
CONTRACT NO. 217382 AND 217343

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: HARRIS ROAD AND STEELHEAD ROAD	DESIGN SECTION: ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 1 OF 8
	ROAD NO: 8B020 & 8C080	MILE POST: 1.16 & 1.00	STORM DAMAGE REPAIR TO HARRIS RD 1.16 & STEELHEAD RD 1.00	
	PROJECT NO: FEMA 4301-DR-CA PW-1048	CAL DES ID: 023-00000	DESIGNED BY: MMS	
	CONTRACT NO: 217382 & 217343		DRAWN BY: MVS	
	DRAWING FILE NAME: L:\2017 S D\HARRIS Road PM 1.16\Design\217382_C1	REVIEWED BY: JAB	COVER SHEET	
	PLOT DATE: 4/17/2019	APPROVED BY: TRS		



INDEX OF SHEETS

- 1 COVER SHEET
- 2 TRAFFIC CONTROL PLAN AND QUANTITIES
- 3 STEELHEAD ROAD PLANS AND DETAILS
- 4 HARRIS ROAD TYPICAL SECTIONS & DETAILS
- 5 HARRIS ROAD PLAN & PROFILE
- 6-8 HARRIS ROAD CROSS SECTIONS

NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" OR "C33" LICENSE FOR THIS PROJECT.
REFERENCE TO CALTRANS STANDARD PLANS DATED OCTOBER 2018 (SEE APPLICABLE STANDARD PLAN LIST IN SPECIAL PROVISIONS)

DESIGN DESIGNATION

HARRIS ADT = 37
V=25MPH (NOT POSTED)
STEELHEAD ADT = ~40
V=25MPH (NOT POSTED)

RECOMMENDED

Jeffrey A. Ball
JEFFREY A. BALL
RCE 70631, EXP. 6/30/2019

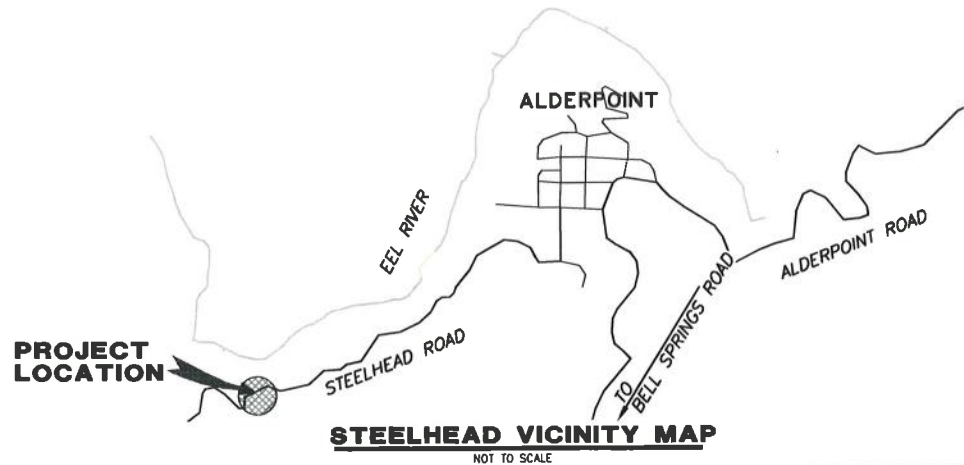
4/19/2019
DATE



APPROVED

Tony R. Seghetti
TONY R. SEGHETTI
RCE 63714, EXP. 9/30/2020

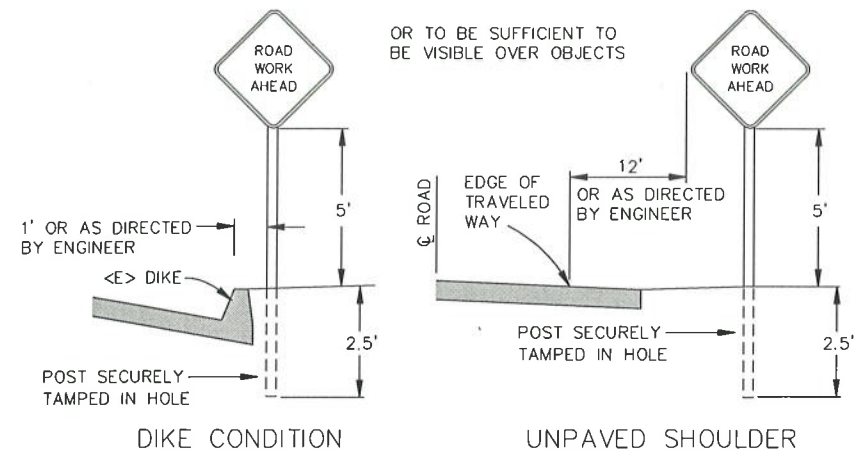
4/19/19
DATE



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



ROAD NAME: HARRIS ROAD AND STEELHEAD ROAD		DESIGN SECTION: ENGINEERING DIVISION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 2 OF 8
ROAD NO: 88020 & 8C080	MILE POST: 1.16 & 1.00	DESIGNED BY: MMS	STORM DAMAGE REPAIR TO HARRIS RD 1.16 & STEELHEAD RD 1.00	
PROJECT NO: FEM 4301 DR CAPW-1048	CAL OES ID: 023 00000	DRAWN BY: MMS	TRAFFIC CONTROL PLANS AND QUANTITIES	
CONTRACT NO.: 217382 & 217343	DRAWING FILE NAME: L:\2017 Storm Damage\Harris Road PM 1.16\Design\217382_C2	REVIEWED BY: JAB		
IF NOT ONE INCH ON ORIGINAL DRAWING		APPROVED BY: TRS		
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PLOT DATE: 4/17/2019				



NOTES

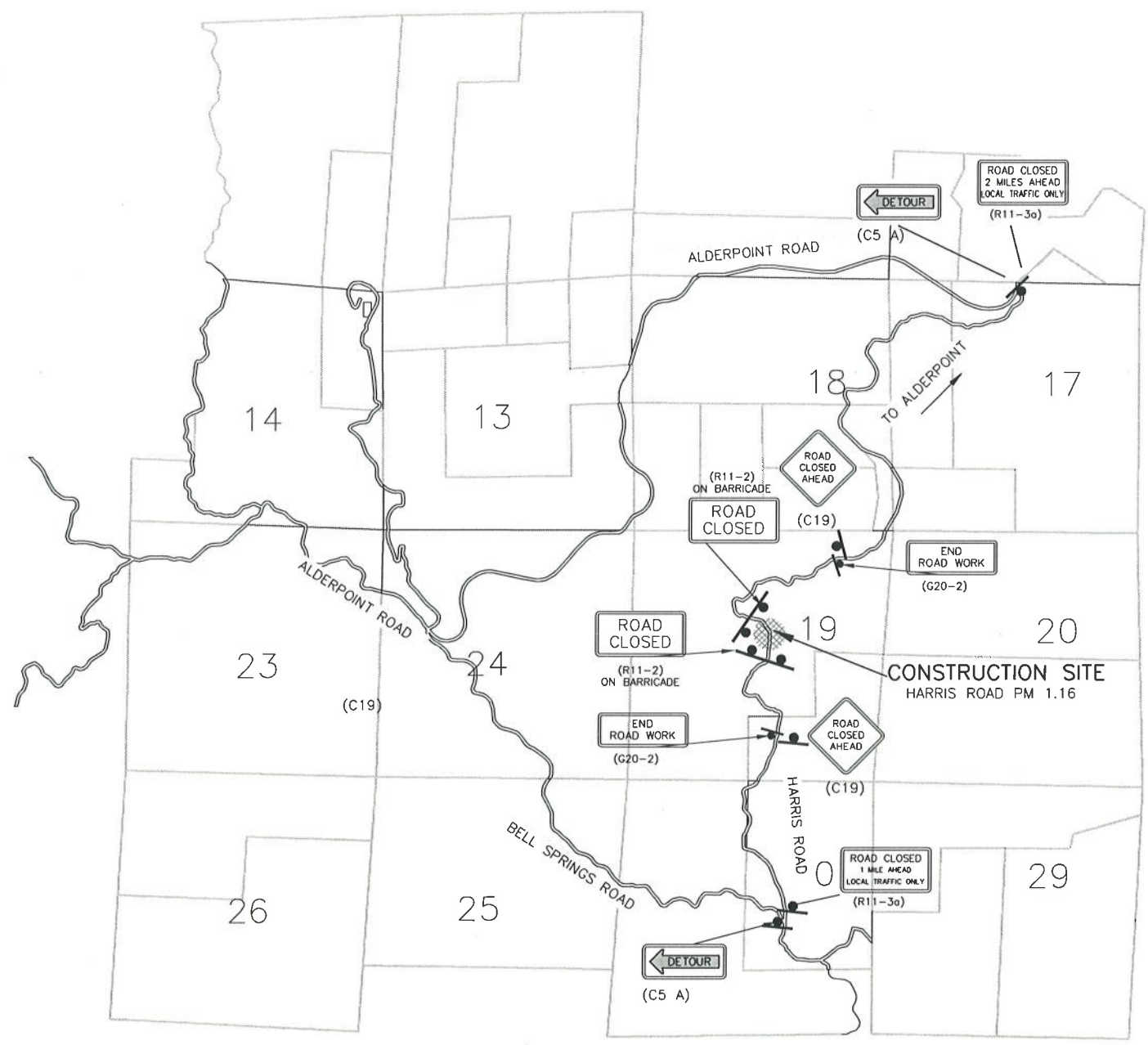
- SIGNS SHALL BE PLACED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
 - FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
 - ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
 - SEE STANDARD PLAN T13 FOR TRAFFIC CONTROL SYSTEM.
 - IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
 - DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE OF EACH OTHER.
- * PLACEMENT MAY NEED ADJUSTMENT AFTER K-RAIL IS SET.

QUANTITIES

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	HARRIS QUANTITY	STEELHEAD QUANTITY	TOTAL QUANTITY
1	120090	Construction Area Signs	EA	10	6	16
2	120100	Traffic Control System	LS	0.5	0.5	1
3	129000	Temporary Railing (Type K)	EA	0	7	7
4	130100	Job Site Management	LS	0.5	0.5	1
5	130200	Prepare Water Pollution Control Program	LS	0.5	0.5	1
6	130680	Temporary Silt Fence	LF	300	100	400
7	170103	Clearing and Grubbing (LS)	LS	0.5	0.5	1
8	190101	Roadway Excavation	CY	85		85
9	192037	F Structure Excavation (Wire Wall & Gabion)	CY	960	150	1,110
10	198050	Embankment	CY	255	95	350
11	198100	Structure Backfill (Wire Wall)	CY	420		420
12	210350	Fiber Rolls	LF	300	100	400
13	210430	Hydroseed	SQFT	4,000	1,000	5,000
14	260400	Aggregate Base (1.5" Minus Crushed Rock)	CY	85	40	125
15	477020	Mechanically Stabilized Embankment (Wire Wall)	SQFT	1,696		1,696
16	680902	6" Perforated Plastic Pipe Underdrain	LF	240		240
17	682049	Class 3 Permeable Material	CY	370		370
18	722020	Gabion (6'x6'x3')	CY		110	110
19	729011	Filter Fabric (Class 8)	SY		100	100
20	820108	Delineator (Class 2)	EA	5	5	10
21	999990	Mobilization	LS	0.5	0.5	1

RURAL CONSTRUCTION AREA SIGN

- NOT TO SCALE -

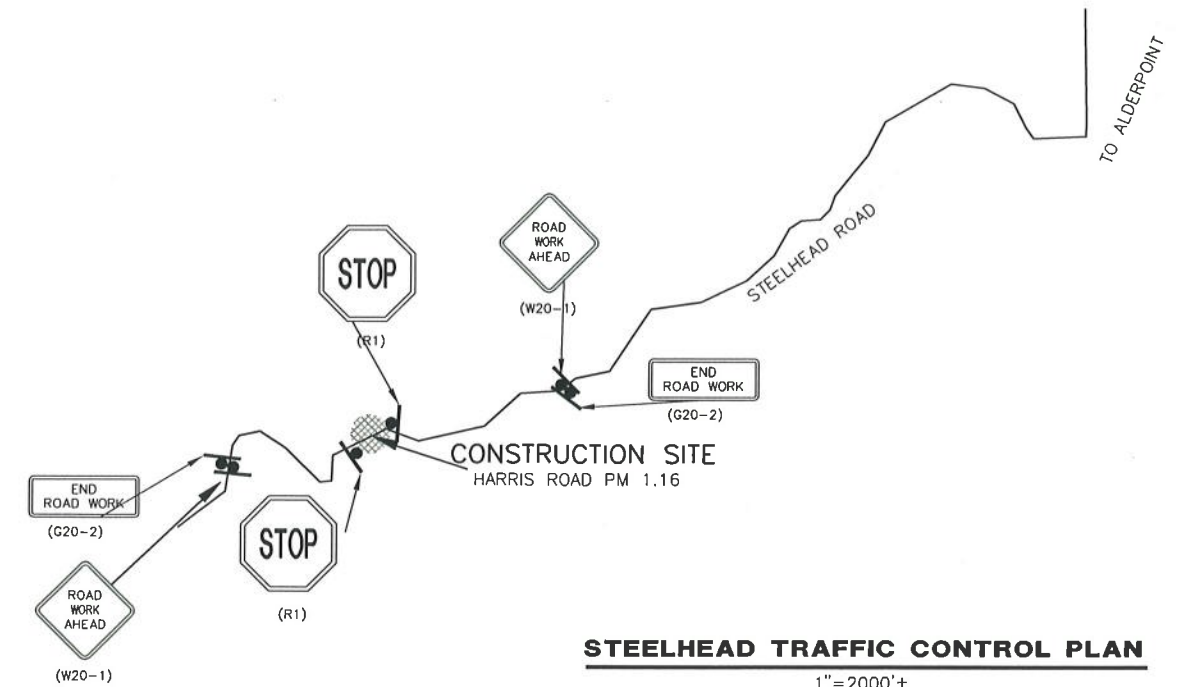


HARRIS TRAFFIC CONTROL PLAN

1" = 2000'±

CONSTRUCTION AREA SIGN SUMMARY

SIGN TYPE	QTY	DESCRIPTION	SIZE	REMARKS	POST SIZE	NUMBER
C5-A	2	DETOUR	48" x 18"	VISIBLE AT ALL TIMES	4" x 4"	1
R11-2	2	ROAD CLOSED	48" x 48"	VISIBLE AT ALL TIMES	4" x 4"	1
R11-3a	1	ROAD CLOSED 1 MILE AHEAD	60" x 30"	VISIBLE AT ALL TIMES	4" x 4"	2
G20-2	4	END ROAD WORK	36" x 18"	VISIBLE AT ALL TIMES	4" x 4"	1
C19	2	ROAD CLOSED AHEAD	48" x 48"	VISIBLE AT ALL TIMES	4" x 4"	1
R11-3a	1	ROAD CLOSED 2 MILES AHEAD	60" x 30"	VISIBLE AT ALL TIMES	4" x 4"	2
W20-1	2	ROAD WORK AHEAD	36" x 36"	VISIBLE AT ALL TIMES	4" x 4"	1
R-1	2	STOP	36" x 36"	VISIBLE AT ALL TIMES	4" x 4"	1

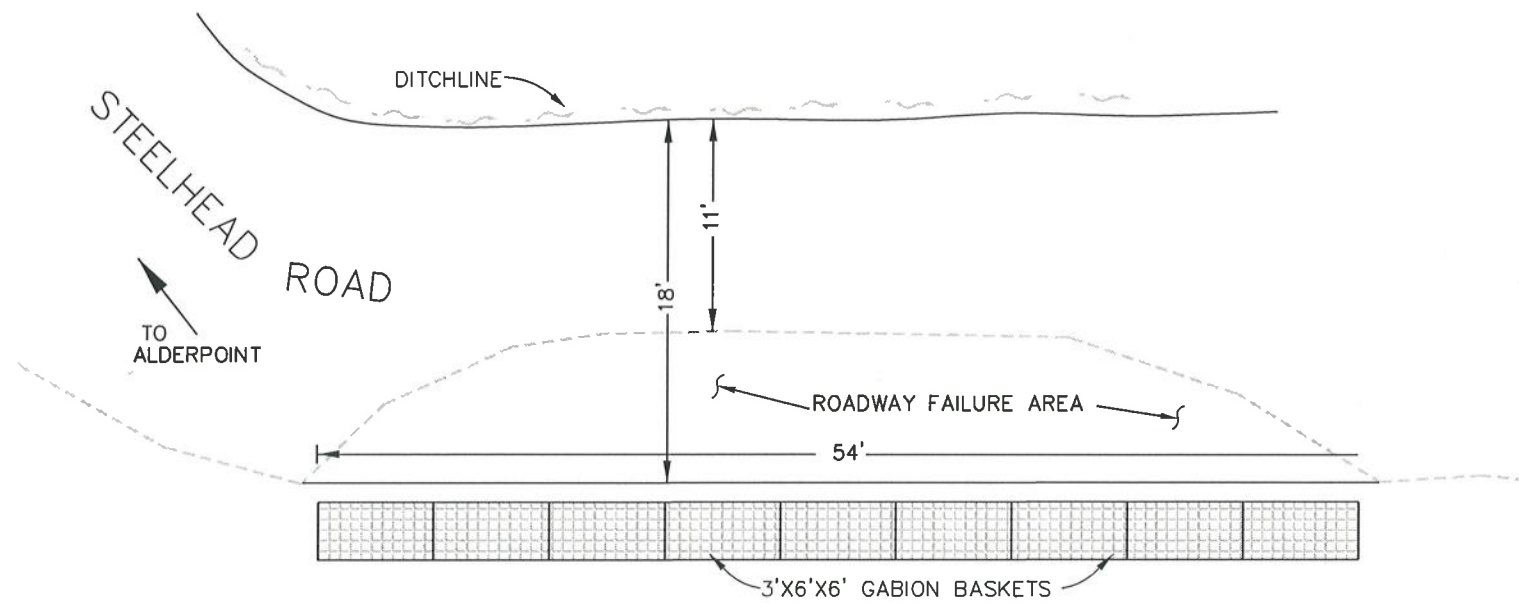


STEELHEAD TRAFFIC CONTROL PLAN

1" = 2000'±

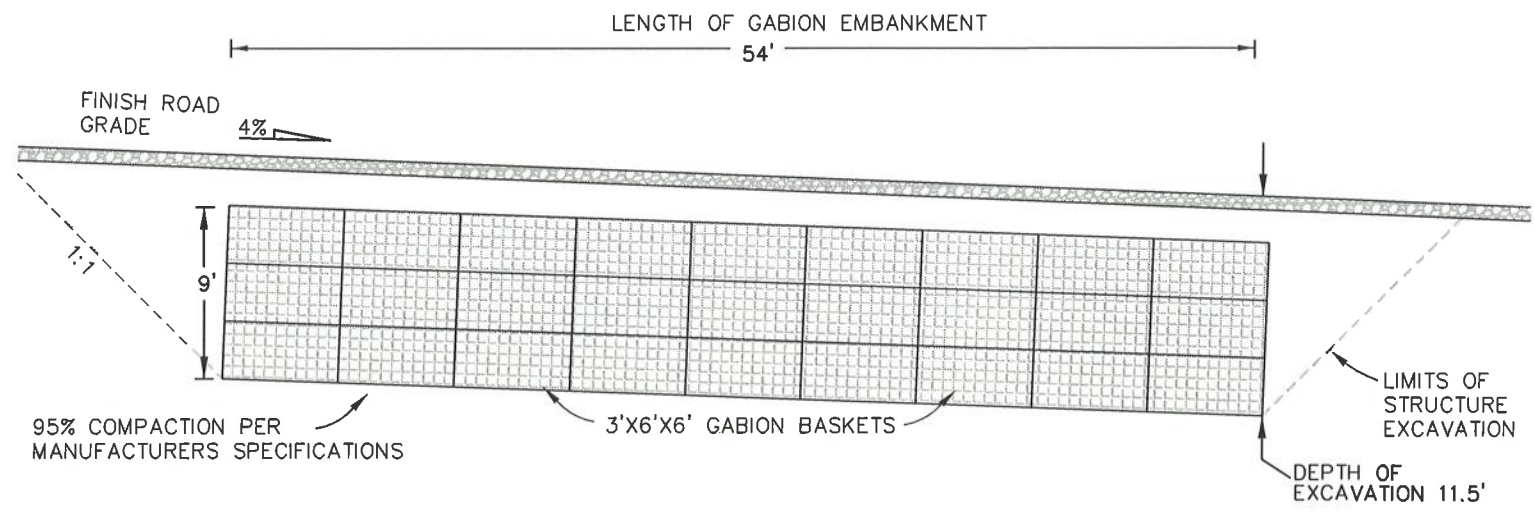


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: HARRIS ROAD AND STEELHEAD ROAD ROAD NO.: 88020 88C080 PROJECT NO.: FEMA 4301-DR-CA-PW 1048 CONTRACT NO.: 217382 & 217343 DRAWING FILE NAME: L:\2017 Storm Damage\Harris Road PM 1.16\Design\217382_C2 PLOT DATE: 4/17/2019	MILE POST: 1.16 & 1.00 CAL OES ID: 023 00000	DESIGN SECTION ENGINEERING DIVISION DESIGNED BY: MMS DRAWN BY: MMS REVIEWED BY: JAB APPROVED BY: TRS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO HARRIS RD 1.16 & STEELHEAD RD 1.00 STEELHEAD ROAD SITE PLANS, QUANTITIES, AND DETAILS	SHEET 3 OF 8
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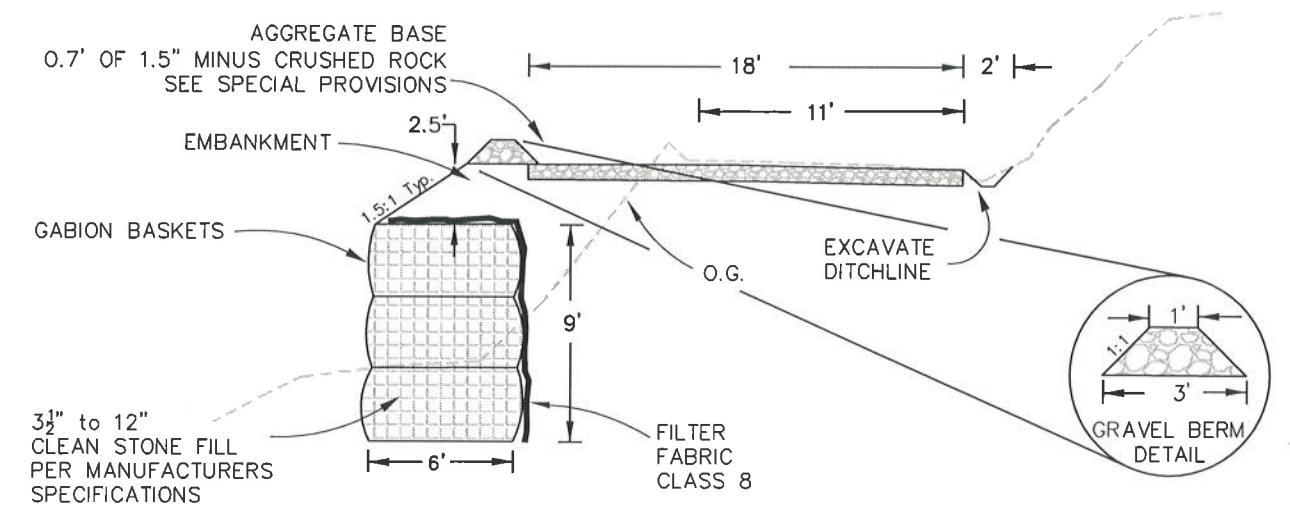


- NOTES:
1. LOCATION OF GABIONS TO BE VERIFIED PRIOR TO CONSTRUCTION
 2. NOT A PRODUCT OF SURVEY

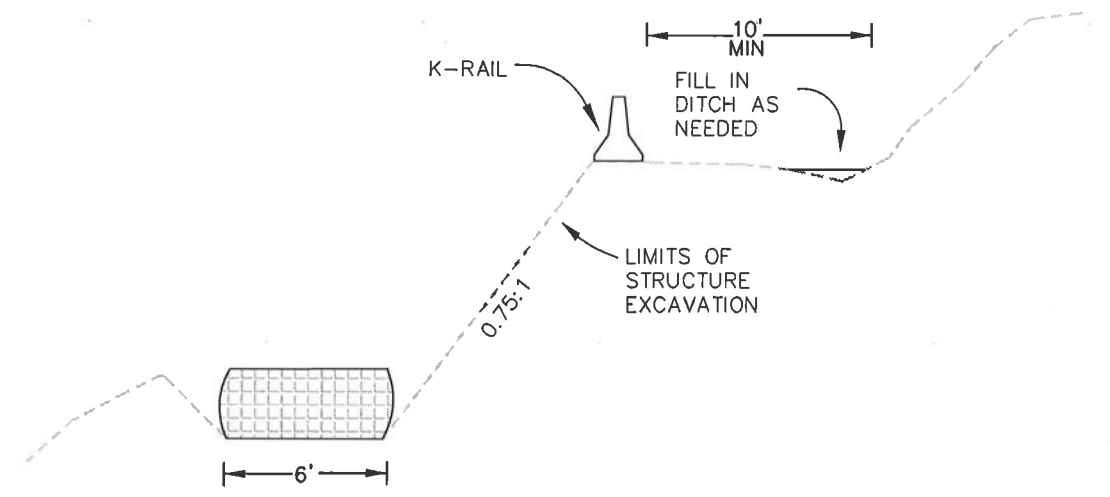
PLAN
Scale: 1"=10'±



ELEVATION
Scale: 1"=10'±



TYPICAL SECTION
Scale: 1"=4'±



STRUCTURE EXCAVATION
Scale: 1"=4'±



ROAD NAME: HARRIS ROAD AND STEELHEAD ROAD ROAD NO: 88020 88C080 PROJECT NO: FEMA 4301 DA CA PM 1048 CONTRACT NO.: 217382 & 217343 DRAWING FILE NAME: L:\2017 Storm Damage\Harris Road PM 1.16\Design\217382_C2 PLOT DATE: 4/17/2019		MILE POST: 1.16 & 1.00 CAL DES ID: 023-00000	DESIGN SECTION ENGINEERING DIVISION DESIGNED BY: MMS DRAWN BY: MMS REVIEWED BY: JAB APPROVED BY: TRS	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS STORM DAMAGE REPAIR TO HARRIS RD 1.16 & STEELHEAD RD 1.00 HARRIS ROAD TYPICAL SECTIONS AND DETAILS	SHEET 4 OF 8
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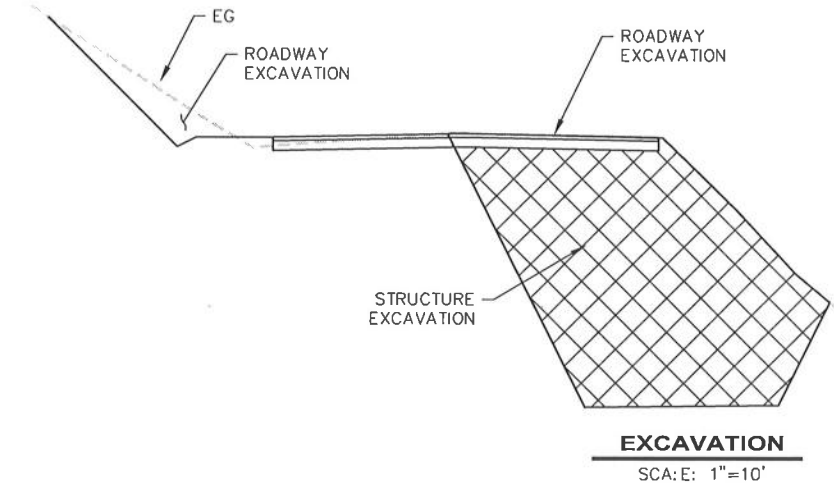
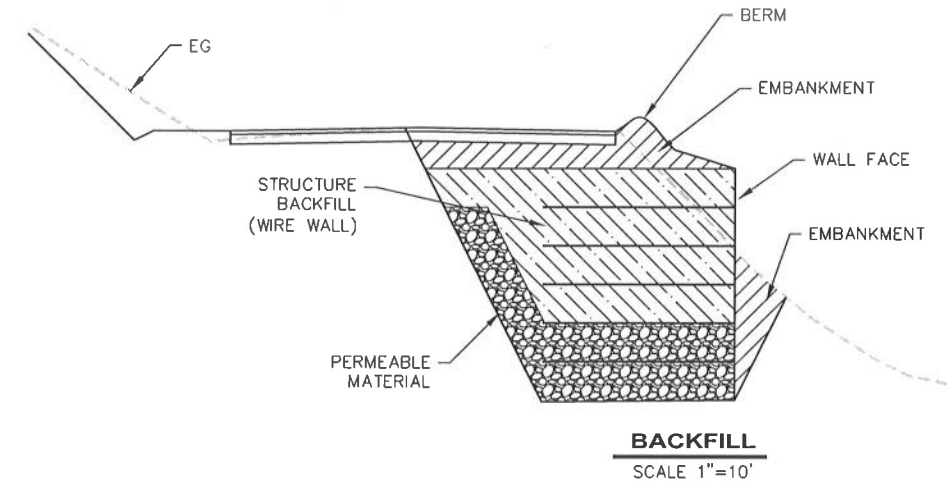
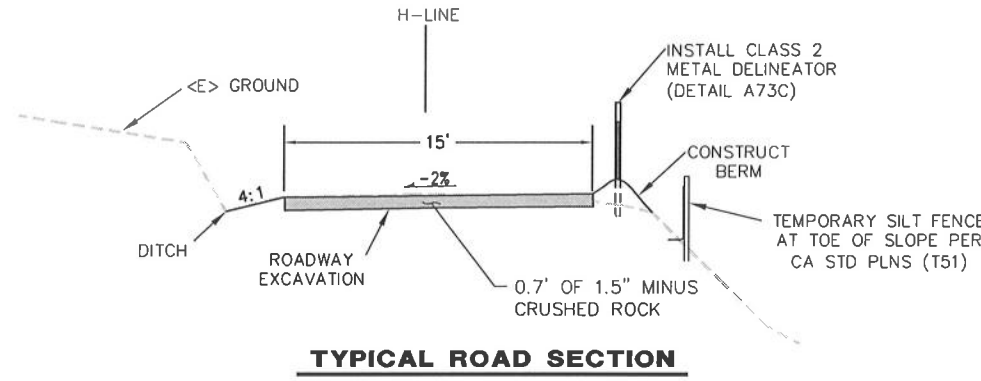
SURVEY CONTROL COORDINATES LIST

POINT NUMBER	EASTING	NORTHING	POINT ELEVATION	DESCRIPTION
1	4910.2285'	4791.9404'	5010.130'	SET80D&SHINER
2	4964.8191'	4894.3442'	5003.370'	SET80D&SHINER
3	5000.0000'	5000.0000'	5000.000'	SET80D&SHINER
4	5031.7232'	5179.9114'	4989.407'	SET80D&SHINER

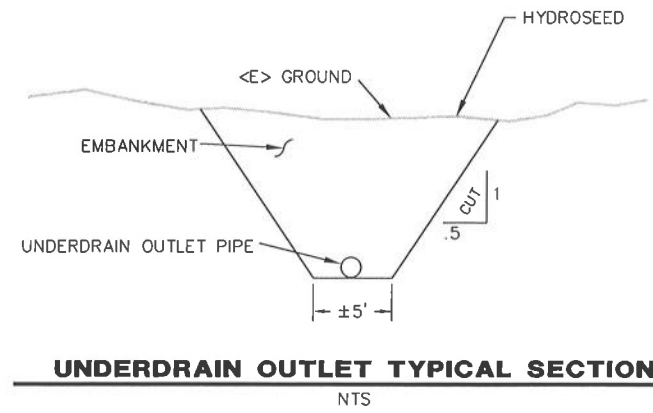
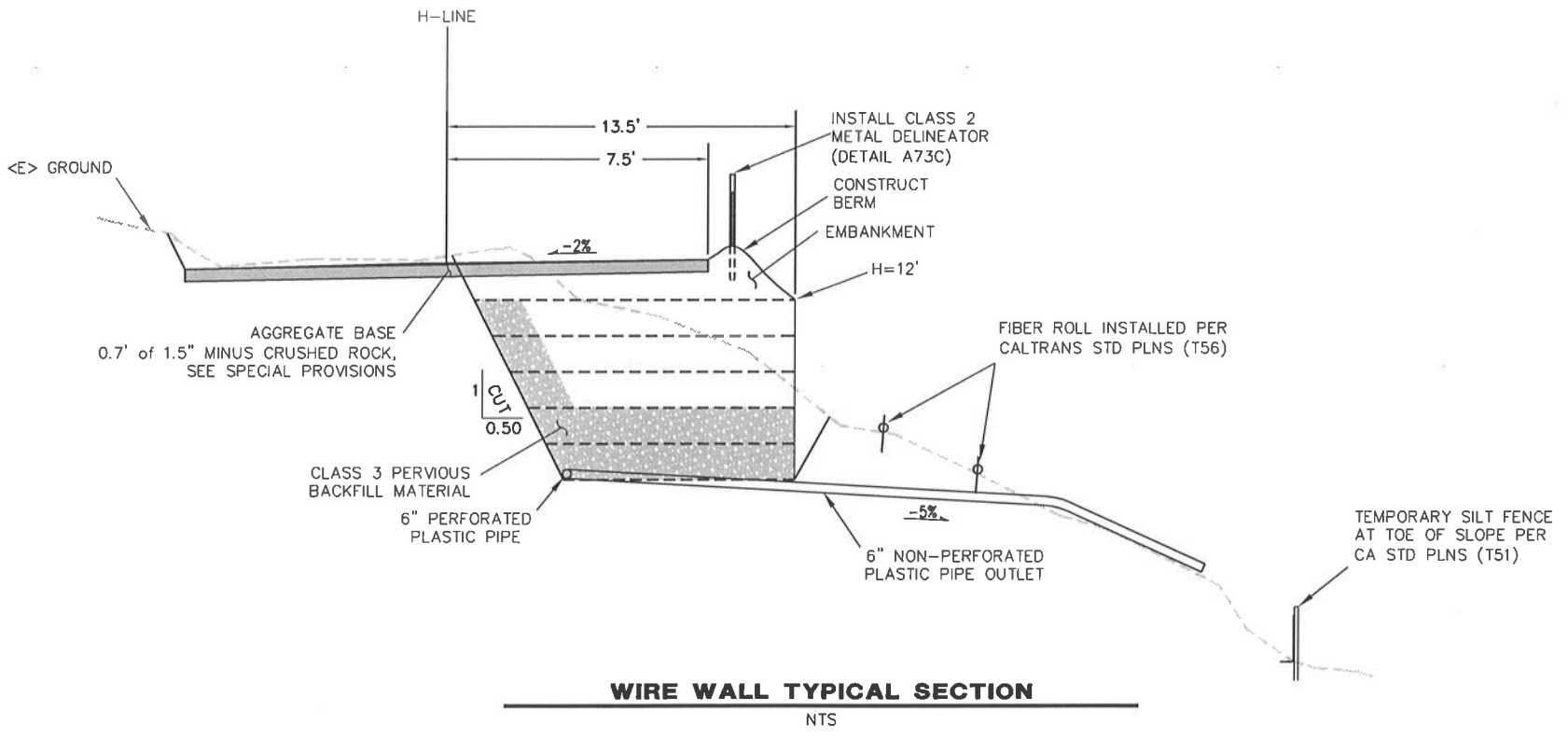
PROJECT LAYOUT

DESCRIPTION	NORTHING	EASTING
B.O.P. - 1+30 Conform	5007.2653	5000.2439
BEGIN WALL -TOE AT FACE	4997.8857	4985.7292
END WALL-TOE AT FACE	5177.8927	5034.6603
E.O.P. - 3+30 Conform	5193.6628	5021.3443

- SURVEY NOTES:**
- The purpose of this survey is to determine topography for a storm damage road repair site at PM 1.16 of Harris Road.
 - Underground utilities research was not performed. We located underground cable route posts and utility poles. The existence of other utilities is unknown.
 - Only trees greater than 12 inches in diameter were located. Other trees exist in surveyed area and are not shown.
 - The basis of bearings shown hereon are based on holding a compass bearing of N10°E between point CP3 & CP4.
 - The basis of elevations shown hereon is based upon an assumed elevation of 5000.00 feet at point CP3.
 - The right of way in this area is prescriptive. The centerline of the present day road pavement is accepted as the centerline of the right-of-way being 40 feet wide, 20 feet each side of centerline.
 - Distances shown hereon are in U.S. survey feet and decimals thereof.

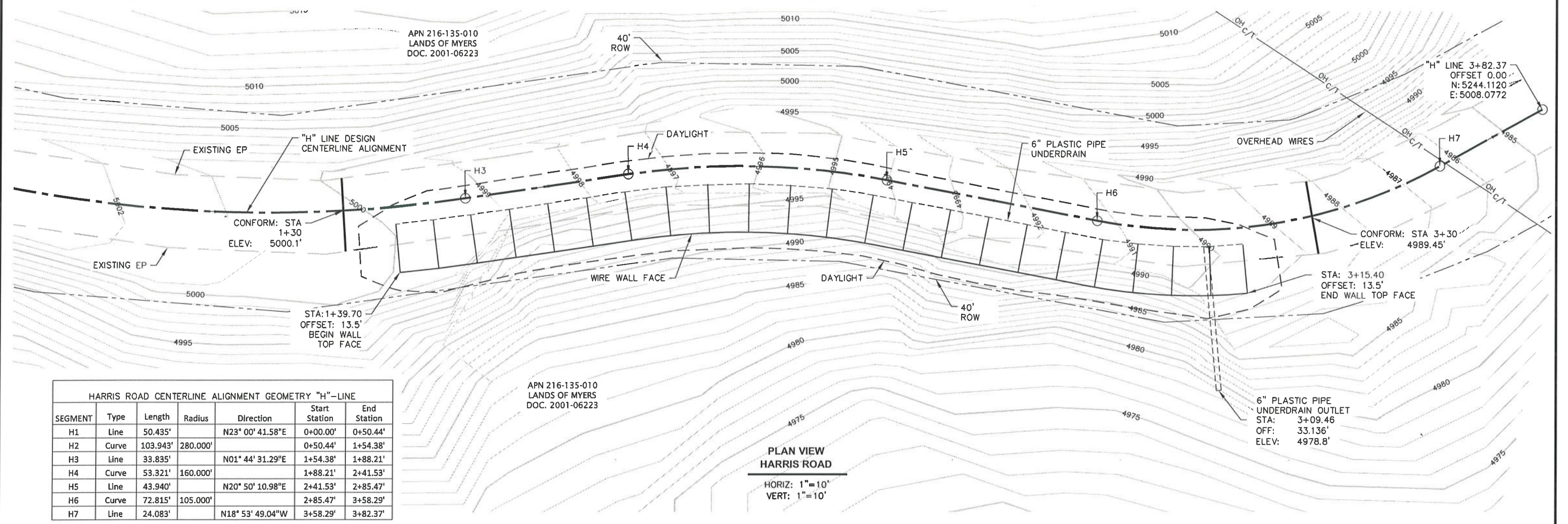


EXCAVATION AND BACKFILL TYPICAL SECTIONS

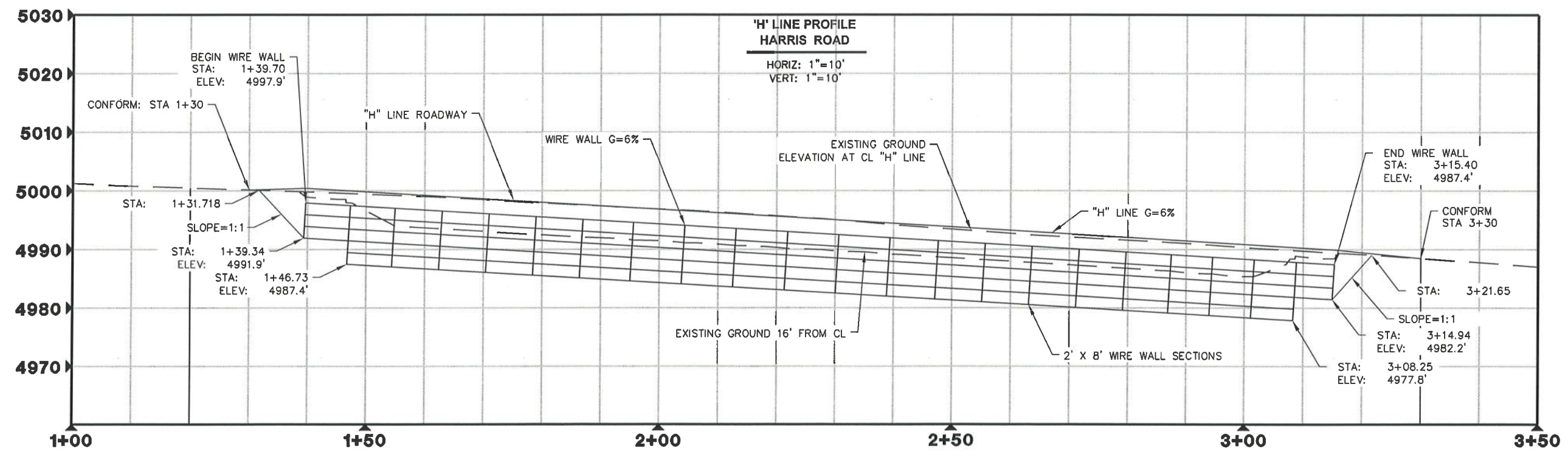




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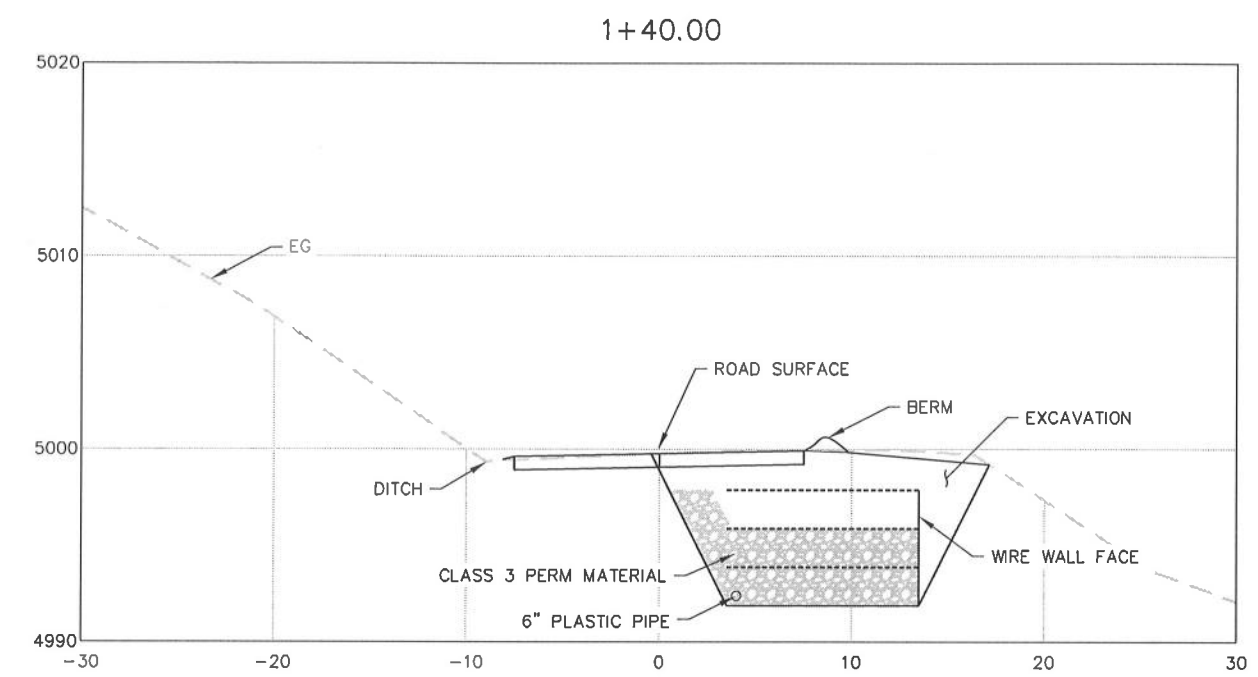
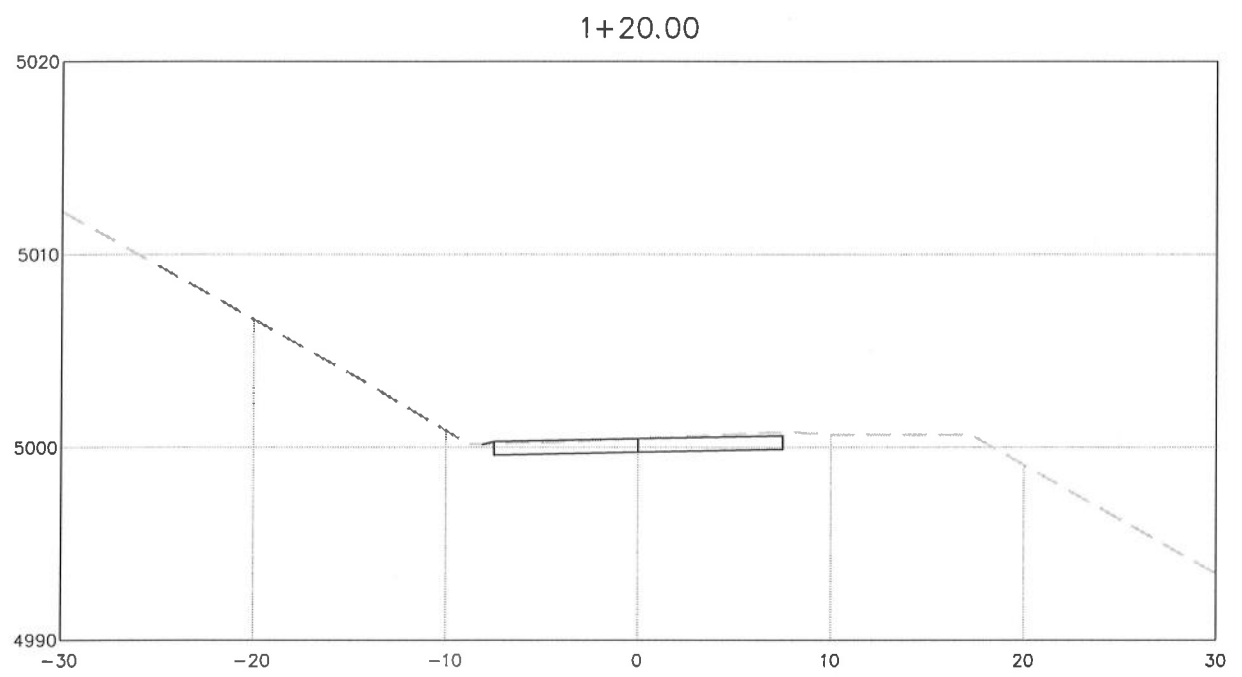


SEGMENT	Type	Length	Radius	Direction	Start Station	End Station
H1	Line	50.435'		N23° 00' 41.58"E	0+00.00'	0+50.44'
H2	Curve	103.943'	280.000'		0+50.44'	1+54.38'
H3	Line	33.835'		N01° 44' 31.29"E	1+54.38'	1+88.21'
H4	Curve	53.321'	160.000'		1+88.21'	2+41.53'
H5	Line	43.940'		N20° 50' 10.98"E	2+41.53'	2+85.47'
H6	Curve	72.815'	105.000'		2+85.47'	3+58.29'
H7	Line	24.083'		N18° 53' 49.04"W	3+58.29'	3+82.37'

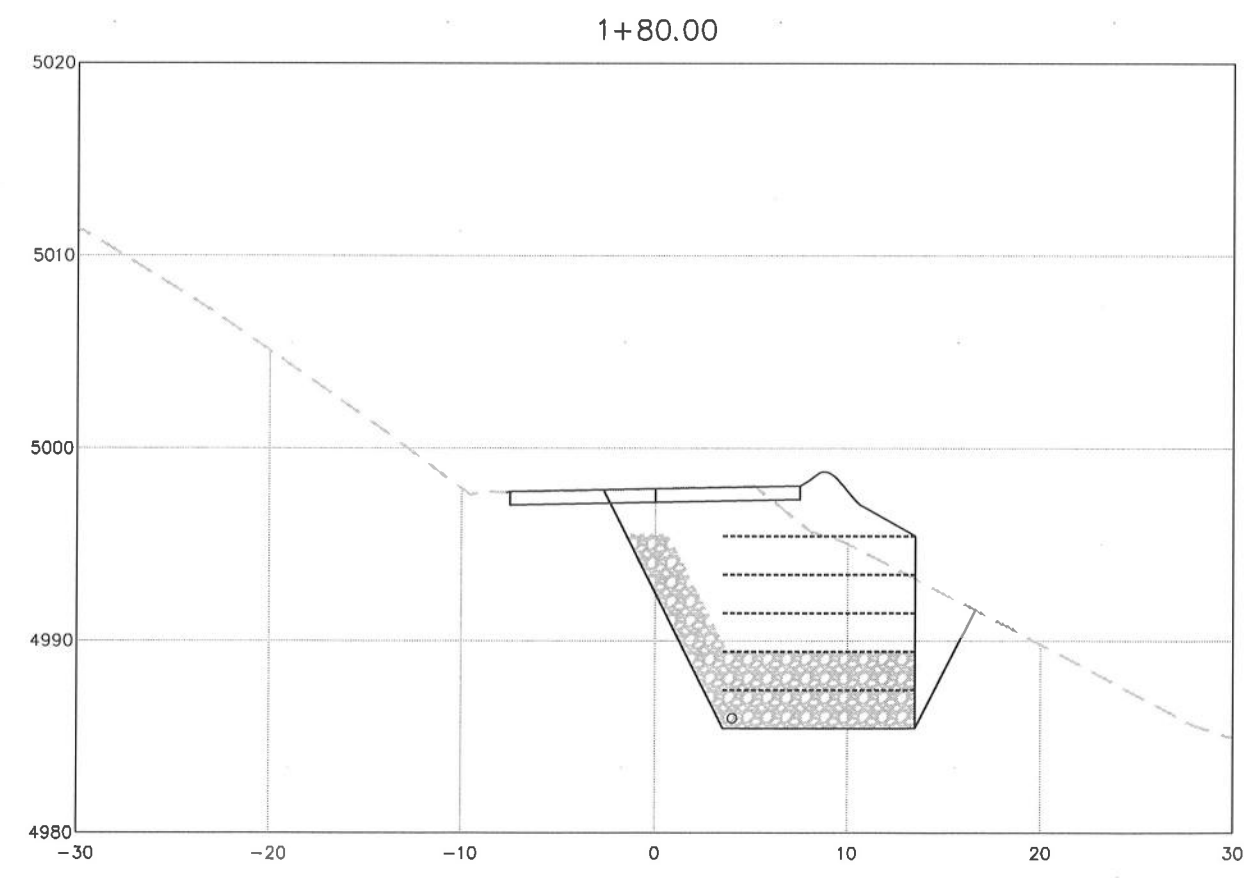
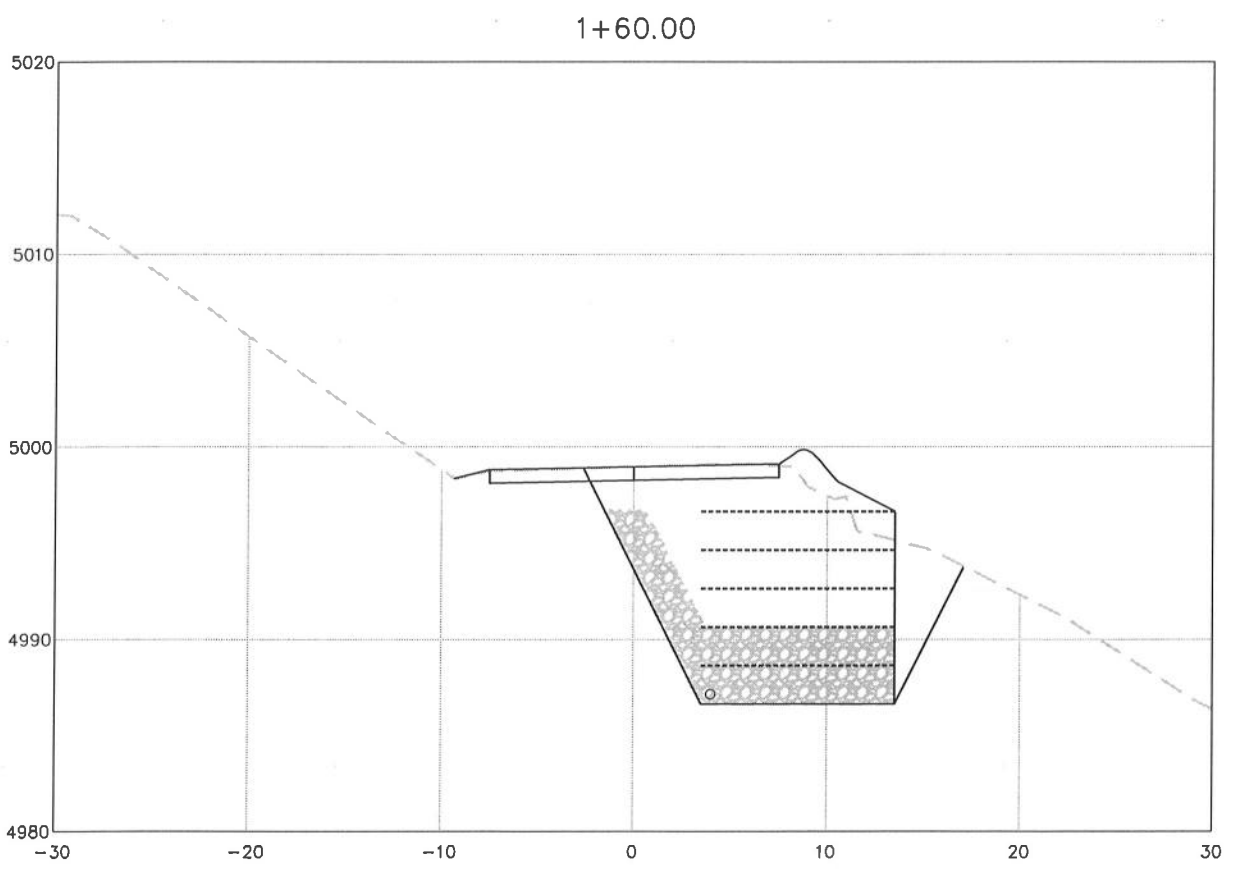




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	ROAD NO: 88020 & 8C080	MILE POST: 1.16 & 1.00			ENGINEERING DIVISION
	PROJECT NO: FEMA 4301 DR CA-PW 1048	CAL OES ID: 023 00000			DESIGNED BY: MMS
	CONTRACT NO.: 217382 & 217343				DRAWN BY: MMS
	DRAWING FILE NAME: L:\2017 Storm Damage\Harris Road PM 1.16\Design\217382.C2	REVIEWED BY: JAR			
	PLOT DATE: 4/17/2019	APPROVED BY: TRS			

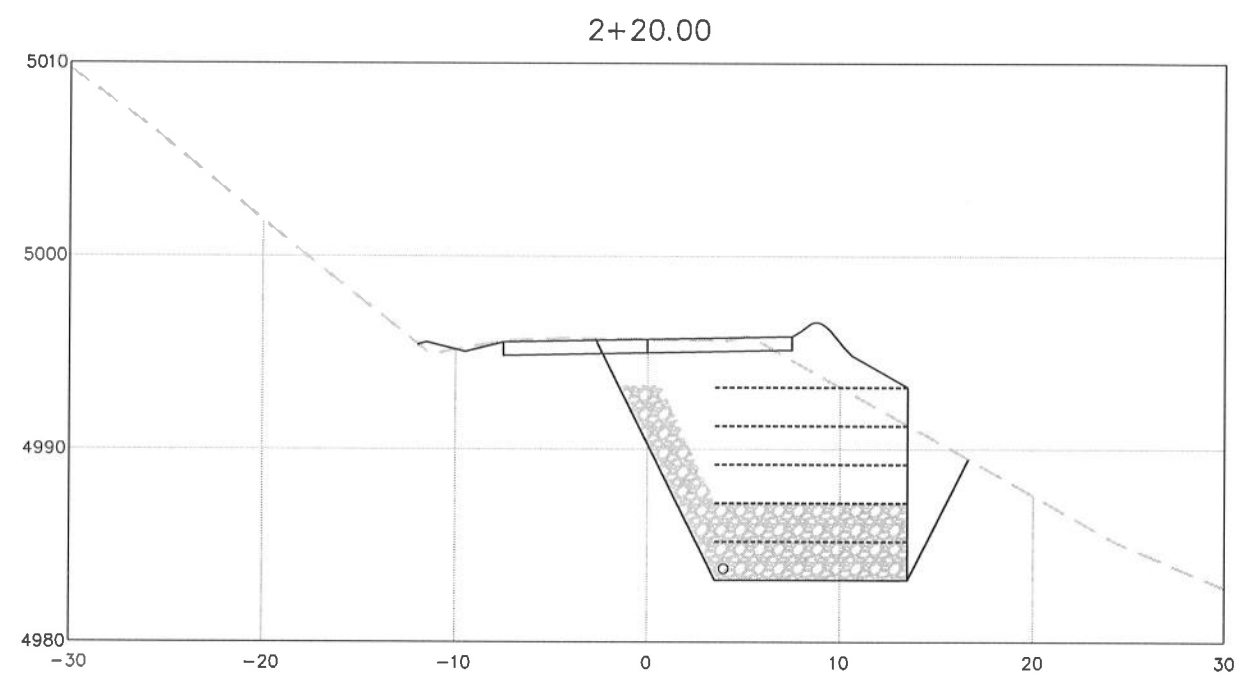
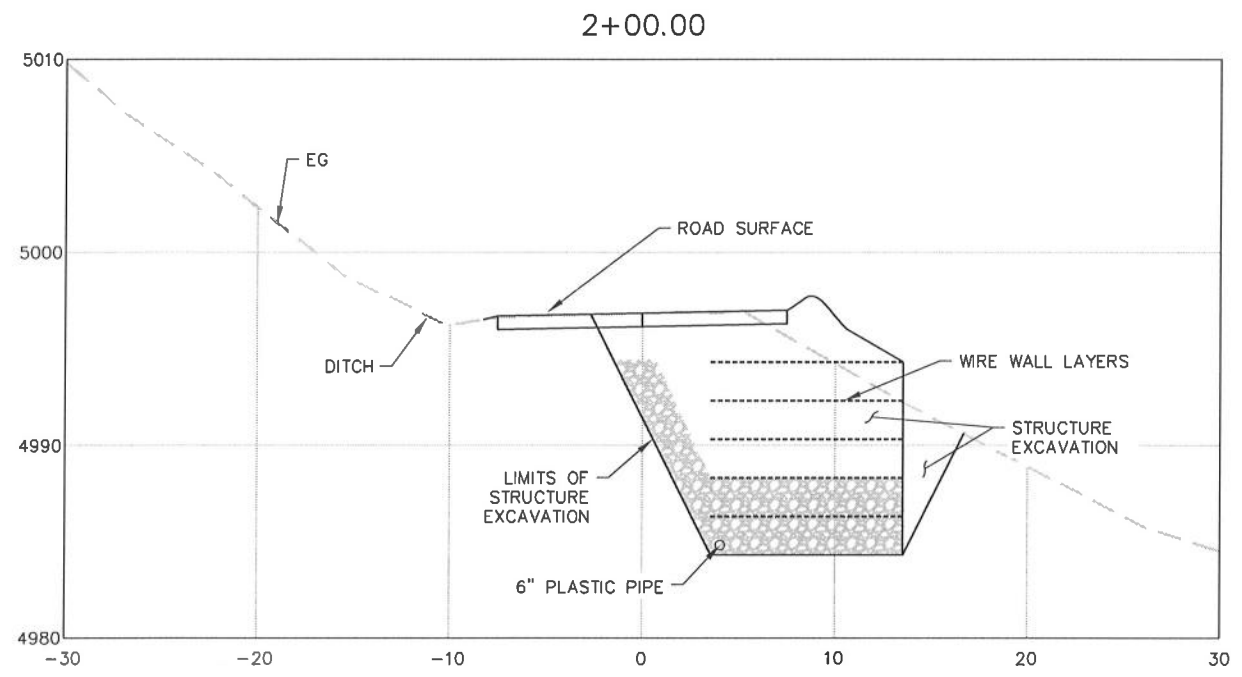


WWW SECTION VIEW
SCALE: 1"=5'

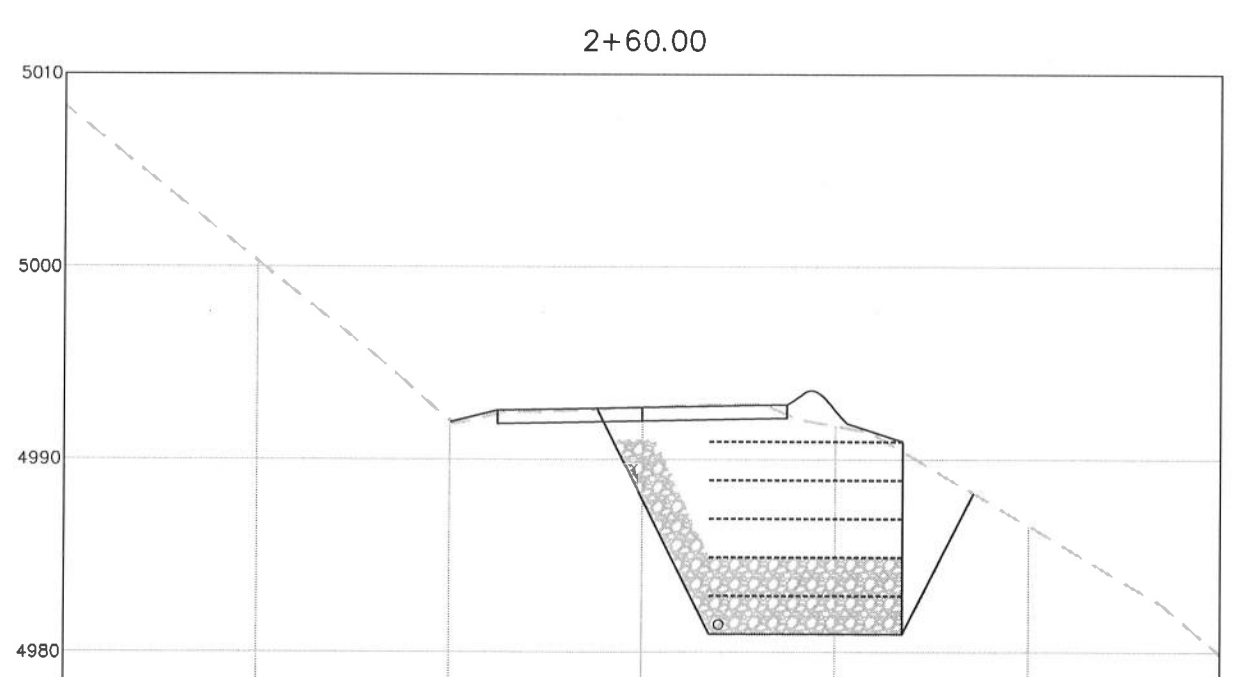
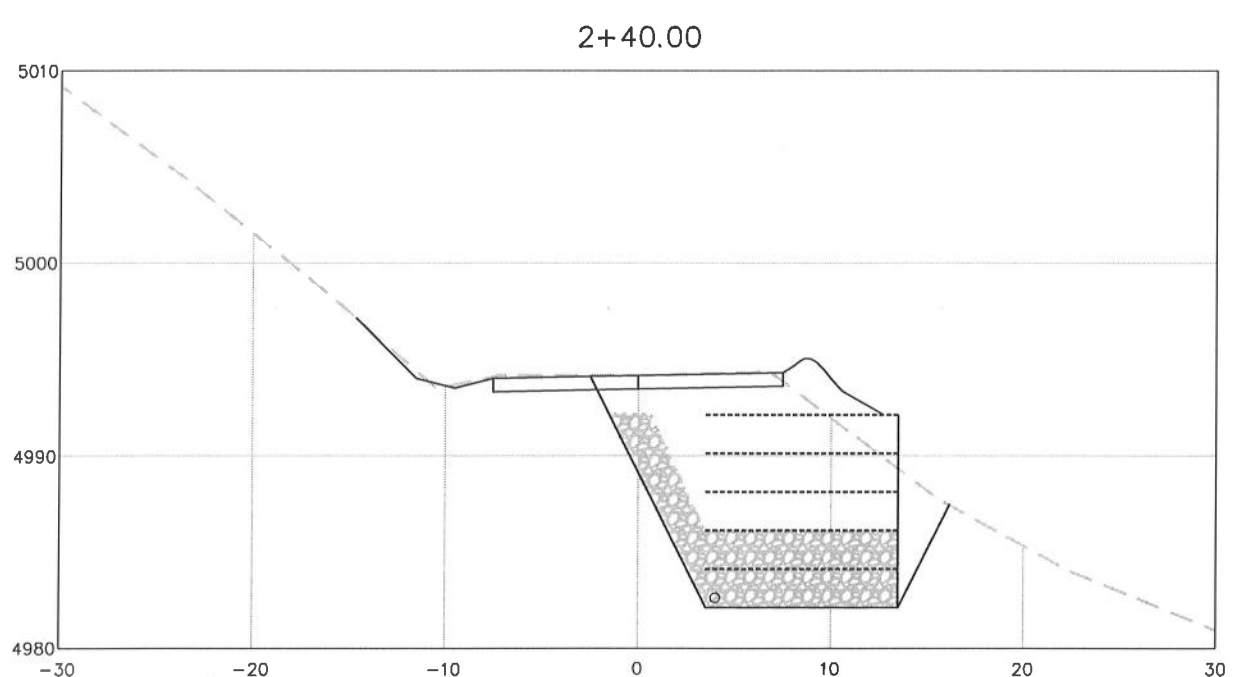




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	ROAD NO: 8B020 & 8C080	MILE POST: 1.16 & 1.00		
	PROJECT NO.: FEMA 4301-DR-CA-PH-1048	CAL DES ID: 023-00000	HARRIS ROAD SECTION VIEW (STA 2+00 TO 2+60)	
	CONTRACT NO.: 217382 & 217343			
	DRAWING FILE NAME: L:\2017 Storm Damage\Harris Road PM 1.16\Design\217382_C2			
	PLOT DATE: 4/17/2019			

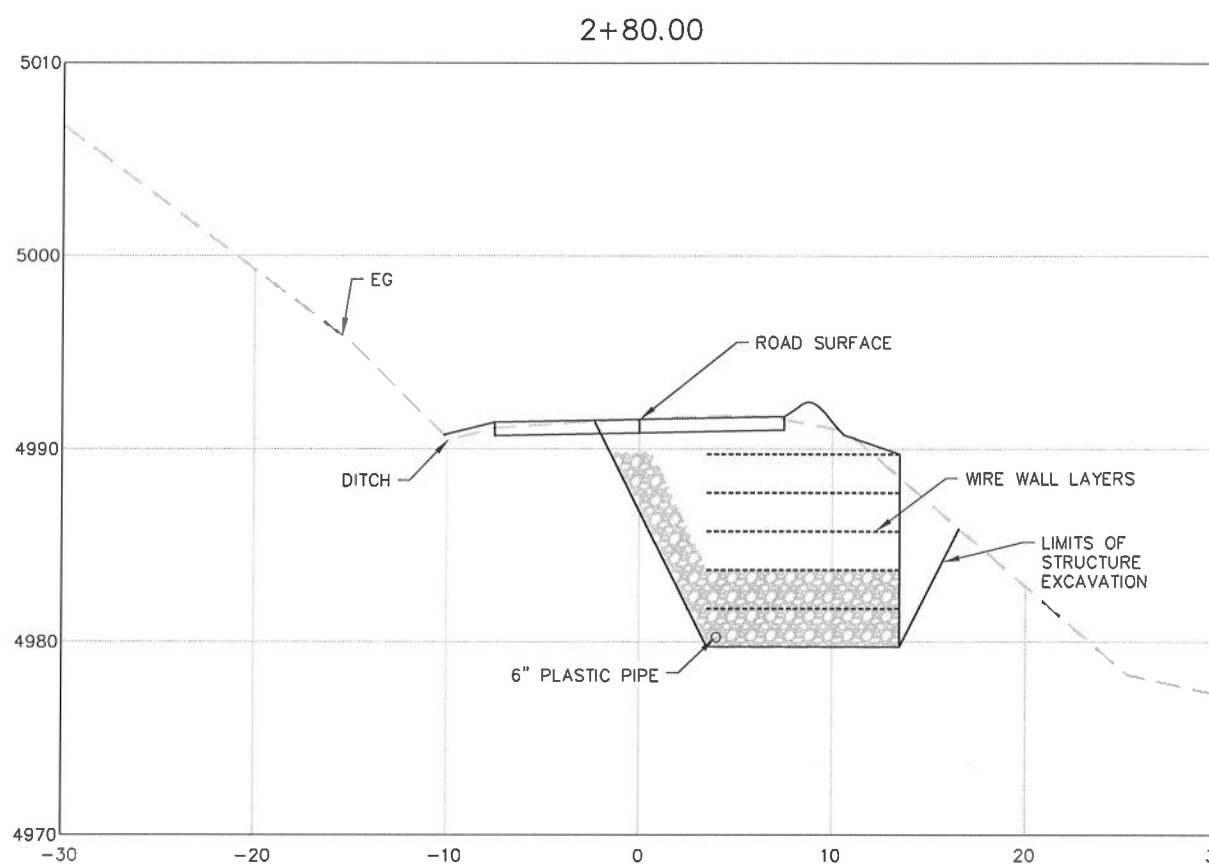


WWW SECTION VIEW
SCALE: 1"=8'





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	ROAD NO: 88020 & 8C080	MILE POST: 1.16 & 1.00	ENGINEERING DIVISION		
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NO: FEMA 4301-DR-CA-PW-1048	CAL OES ID: 023-00000	DESIGNED BY: MMS	STORM DAMAGE REPAIR TO HARRIS RD 1.16 & STEELHEAD RD 1.00	
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	PLOT DATE: 4/17/2019		APPROVED BY: TRS	HARRIS ROAD SECTION VIEW (STA 2+80 TO 3+40)	



WWW SECTION VIEW
SCALE: 1"=5'

