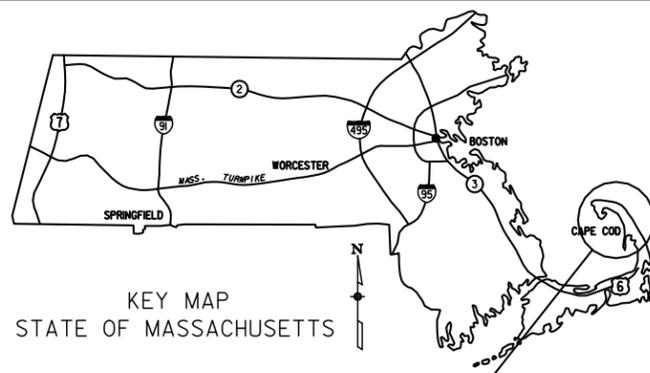


NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	AI



KEY MAP
STATE OF MASSACHUSETTS

PROJECT
PRA-CACO 12(1),
14(2), 17(1), 18(1)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

CAPE COD NATIONAL SEASHORE

PLANS FOR PROPOSED

PROJECT PRA-CACO 12(1), 14(2), 17(1), 18(1)

RECONFIGURATION OF THE INTERSECTION OF MOORS ROAD, PROVINCE LANDS ROAD, AND US ROUTE 6; HERRING COVE BEACH PARKING AREA CIRCULATION IMPROVEMENTS; AND PAVEMENT PRESERVATION WORK FOR US ROUTE 6, MARCONI BEACH ROAD, MARCONI SITE ROAD, MOORS ROAD, OLD DEWLINE ROAD, AND RACE POINT ROAD

BARNSTABLE COUNTY, MASSACHUSETTS

DESCRIPTION OF PROJECT

IMPROVEMENT: Grading and pavement reconstruction of the intersection of State Route 6 (NPS Route 18), Moors Road (NPS Route 17), and Province Lands Road (NPS Route 15). Pavement preservation work for Marconi Beach Road (NPS Route 12), Marconi Site Road (NPS Route 13), Race Point Road (NPS Route 14), Moors Road (NPS Route 17), US Route 6 (NPS Route 18), and Old Dewline Road (NPS Route 20).

PROJECT LENGTH:

US6 WB/Moors Road:	0.55 Miles
US6 EB:	0.25 Miles
Province Lands Road:	0.23 Miles
Race Point Road:	2.05 Miles
Marconi Beach Road:	1.61 Miles
Marconi Site Road:	0.97 Miles
Old Dewline Road:	0.53 Miles
Moors Road:	0.15 Miles
Project Total:	6.28 Miles

ROAD:

	WIDTH	TYPE
SURFACE:	Varies	4.5" SACP
BASE	Varies	8" Aggregate
ROADBED	Varies	Existing

BRIDGE: None

DESIGN DESIGNATION:

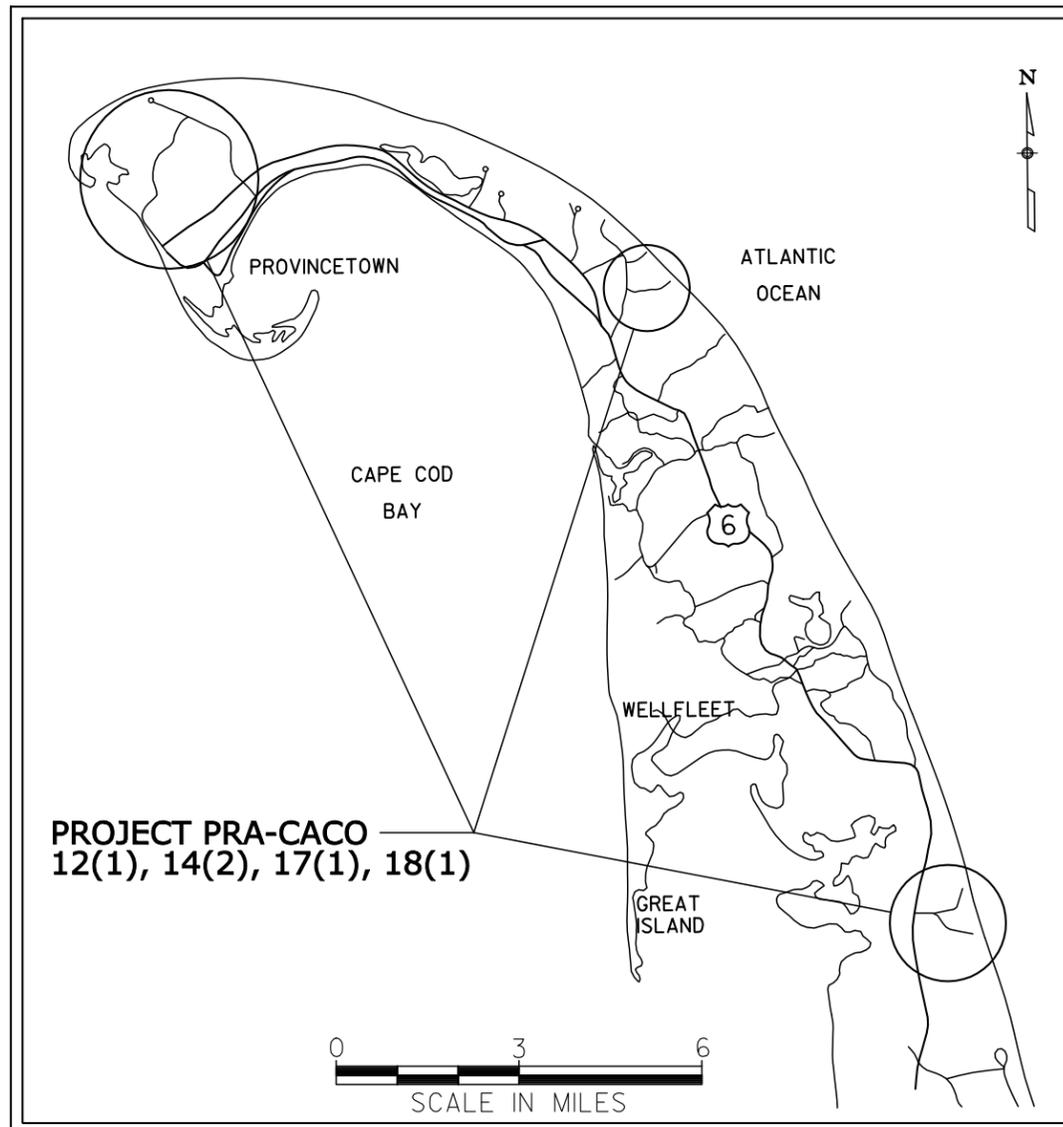
NPS Rte No.	12,13,14,15,&20	17	18
Baseline ADT (2007)	1,193	2,617	1,479
ADT (2008)	1,205	2,669	1,509
ADT (2028)	1,456	3,967	2,242
DHV	N/A	N/A	N/A
D	50/50	50/50	50/50
%Truck	2%	2%	4%
V (MPH)	35	35	45
C/A	None	None	None
e(max)	6%	8%	8%

SPECIFICATIONS:

"Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects", FP-03 U.S. Customary Units.

NOTE:

Call Massachusetts Locating prior to digging.
Phone Numer: (888) 344-7233 or (781) 721-0990



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PLANS PREPARED BY



U.S. Department of Transportation
**Federal Highway
Administration**

EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA
MAY, 2008

PROJECT MANAGER	HD MANAGER	LEAD DESIGNER
TOM SHIFFLETT	JENNIFER WHELCHER	JONATHAN WOODY

PMIS NO. 91712

4:54:05 PM M:\Proj\ecis\caco\18(1)\proj_dev\NCADD\AI-caco\8(1)_fl.dgn 5/29/2008

5/30/2008 8:24:16 AM M:\Projects\caco\B(1)\proj_dev\NCADD\A4-caco\B(1)_sls.dgn

Staked Centerline Data				Staked Centerline Data			
Point Number	Station	Elev.	Type Remarks	Point Number	Station	Elev.	Type Remarks
10054	8+00.00	16.54	Pk Nail US6	10089	50+00.00	21.67	Pk nail US6 EB
10053	8+50.00	16.06	Pk Nail US6	10090	50+50.00	22.30	Spike US6 EB
10052	9+00.00	15.46	Pk Nail US6	10091	51+00.00	23.29	Spike US6 EB
10051	9+50.00	15.00	Pk Nail US6	10092	51+50.00	25.02	Spike US6 EB
10050	9+69.920	14.78	Pk nail US6	10093	52+00.00	26.93	Spike US6 EB
10049	10+00.00	14.42	Pk nail US6	10094	52+02.90	27.14	Tbar US6 EB
10048	10+50.00	13.95	Pk nail US6	10095	52+50.00	27.97	Spike US6 EB
10047	11+00.00	13.16	Pk nail US6	10096	53+00.00	27.42	Spike US6 EB
10046	11+50.00	12.85	Pk nail US6	10097	53+02.90	27.65	Tbar US6 EB
10045	12+00.00	12.25	Pk nail US6	10098	53+50.00	28.12	Spike US6 EB
10044	12+50.00	11.58	Pk nail US6	10099	54+00.00	27.72	Spike US6 EB
10043	13+00.00	11.07	Pk nail US6	10100	54+50.00	27.11	Spike US6 EB
10042	13+50.00	10.89	Pk nail US6	10101	55+00.00	26.79	Pk nail US6 EB
10041	14+00.00	10.66	Pk nail US6	10102	55+50.00	27.02	Pk nail US6 EB
10040	14+50.00	10.49	Pk nail US6	10103	56+00.00	27.39	Pk nail US6 EB
10039	15+00.00	10.63	Pk nail US6	10104	56+50.00	27.74	Pk nail US6 EB
10038	15+33.30	10.82	Pk nail US6	10105	57+00.00	28.05	Pk nail US6 EB
10037	15+50.00	10.86	Pk nail US6	10106	57+50.00	28.36	Pk nail US6 EB
10036	16+00.00	11.21	Pk nail US6	10107	57+54.80	28.42	Pk nail US6 EB
10035	16+50.00	11.57	Pk nail US6	10108	58+00.00	28.53	Pk nail US6 EB
10034	17+00.00	12.19	Pk nail US6	10109	58+50.00	28.78	Pk nail US6 EB
10033	17+50.00	13.09	Pk nail US6	10110	59+00.00	29.25	Pk nail US6 EB
10032	18+00.00	13.86	Pk nail US6	10111	59+50.00	29.50	Pk nail US6 EB
10031	18+50.00	14.70	Pk nail US6	10112	60+00.00	29.77	Pk nail US6 EB
470	19+00.00	15.43	Pk nail US6	10113	60+50.00	30.08	Pk nail US6 EB
471	19+50.00	16.08	Pk nail US6	10114	61+00.00	30.46	Pk nail US6 EB
472	20+00.00	16.66	Pk nail US6	10115	61+50.00	30.59	Pk nail US6 EB
473	20+50.00	17.30	Pk nail US6	10116	62+00.00	30.90	Pk nail US6 EB
474	21+00.00	17.84	Pk nail US6	10118	62+00.00	30.91	Pk nail US6 EB
475	21+15.23	18.07	Pk nail US6	10119	62+50.00	31.31	Pk nail US6 EB
476	21+50.00	18.39	Pk nail US6	10120	63+00.00	31.68	Pk nail US6 EB
477	22+00.00	18.85	Pk nail US6	10121	63+50.00	31.91	Pk nail US6 EB
478	22+50.00	19.24	Pk nail US6	10122	64+00.00	32.15	Pk nail US6 EB
479	23+00.00	19.59	Pk nail US6	10123	64+50.00	32.52	Pk nail US6 EB
480	23+50.00	20.07	Pk nail US6	10124	65+00.00	32.84	Pk nail US6 EB
481	24+00.00	20.64	Pk nail US6	10125	65+50.00	33.17	Pk nail US6 EB
482	24+50.00	21.14	Pk nail US6	10126	66+00.00	33.50	Pk nail US6 EB
483	25+00.00	21.86	Pk nail US6	10127	66+50.00	33.87	Pk nail US6 EB
10055	25+00.00	21.85	Pk nail US6	10128	66+68.76	33.96	Pk nail US6 EB
10056	25+50.00	22.33	Pk nail US6				
10057	26+00.00	22.98	Pk nail US6				
10058	26+50.00	23.59	Pk nail US6				
10059	27+00.00	24.20	Pk nail US6				
10060	27+50.00	24.80	Pk nail US6				
10086	27+50.00	24.90	Pk nail US6				
10087	28+00.00	25.46	Pk nail US6				
10088	28+50.00	25.93	Pk nail US6				
10061	29+00.00	26.18	Pk nail US6	441	100+00.00	16.75	Pk nail PROVLAND
10062	29+50.00	26.62	Pk nail US6	442	100+50.00	16.44	Pk nail PROVLAND
10063	30+00.00	26.89	Pk nail US6	443	101+00.00	17.46	Pk nail PROVLAND
10064	30+50.00	27.12	Pk nail US6	444	101+50.00	17.22	Pk nail PROVLAND
10065	31+00.00	27.44	Pk nail US6	445	102+00.00	16.99	Pk nail PROVLAND
10066	31+50.00	27.74	Pk nail US6	446	102+50.00	16.82	Pk nail PROVLAND
10067	32+00.00	28.11	Pk nail US6	447	103+00.00	16.69	Pk nail PROVLAND
10068	32+50.00	28.38	Pk nail US6	448	103+50.00	16.46	Pk nail PROVLAND
10069	33+00.00	28.57	Pk nail US6	449	104+00.00	16.25	Pk nail PROVLAND
10070	33+50.00	28.61	Pk nail US6	450	104+50.00	16.08	Pk nail PROVLAND
10071	34+00.00	29.14	Pk nail US6	451	104+64.21	16.05	Pk nail PROVLAND
10072	34+50.00	29.59	Pk nail US6	452	105+00.00	15.90	Pk nail PROVLAND
10073	35+00.00	29.97	Pk nail US6	453	105+50.00	15.66	Pk nail PROVLAND
10074	35+50.00	30.26	Pk nail US6	440	106+00.00	15.41	Pk nail PROVLAND
10075	36+00.00	30.51	Pk nail US6	454	106+50.00	15.22	Pk nail PROVLAND
10076	36+50.00	30.62	Pk nail US6	455	106+51.60	15.22	Pk nail PROVLAND
10077	37+00.00	30.87	Pk nail US6	456	107+00.00	15.06	Pk nail PROVLAND
10078	37+50.00	31.25	Pk nail US6	457	107+50.00	14.85	Pk nail PROVLAND
10079	38+00.00	31.55	Pk nail US6	458	108+00.00	14.85	Pk nail PROVLAND
10080	38+50.00	31.79	Pk nail US6	459	108+50.00	14.88	Pk nail PROVLAND
10081	39+00.00	32.25	Pk nail US6	460	108+62.34	14.98	Pk nail PROVLAND
10082	39+50.00	32.53	Pk nail US6	461	109+00.00	15.12	Pk nail PROVLAND
10083	40+00.00	32.93	Pk nail US6	462	109+50.00	15.41	Pk nail PROVLAND
10084	40+50.00	33.32	Pk nail US6	463	110+00.00	15.96	Pk nail PROVLAND
10085	40+70.04	33.38	Pk nail US6	464	110+50.00	16.27	Pk nail PROVLAND
				465	111+00.00	16.66	Pk nail PROVLAND
				466	111+50.00	16.70	Pk nail PROVLAND
				467	112+00.00	16.66	Pk nail PROVLAND
				468	112+50.00	16.44	Pk nail PROVLAND
				469	113+00.00	16.08	Pk nail PROVLAND

Coordinates Detail

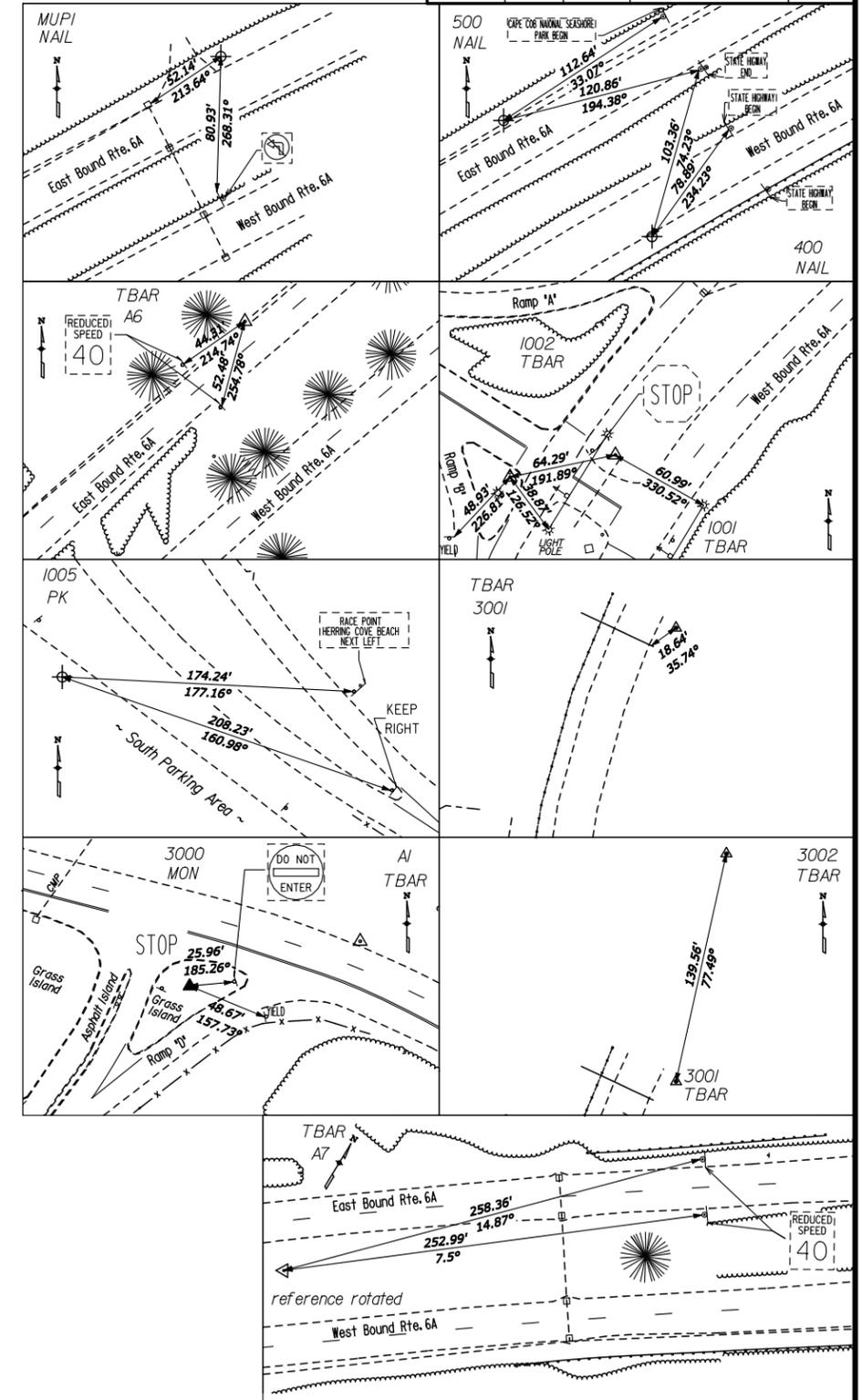
Coordinate System : US State Plane 1983
 Zone : MA Mainland 2001
 Datum : NAD 1983 (Conus)
 Ellipsoid Name : Geodetic Ref System 1980
 Geoid Model : GEOID03 (Conus)
 Project height : -151.470sft
 Site Scale Factor : 1.00000000
 Centroid : 0.000

Control Points

NAME	NORTHING	EASTING	ELEV.	TYPE
MUP1	2845504.650	1006880.874	33.291	NAIL
A1	2844500.145	1004816.268	16.989	TBAR
A7	2844950.441	1006078.474	30.364	TBAR
A6	2844724.755	1005724.819	24.053	TBAR
CP5	2844573.806	1005701.022	22.524	NAIL
400	2845253.858	1006649.832	31.307	NAIL
500	2845323.320	1006560.848	31.274	NAIL
1001	2844221.095	1005271.638	15.097	TBAR
1002	2844207.850	1005208.523	17.922	TBAR
1005	2843457.248	1005249.226	10.619	PK
1006	2843702.515	1004692.580	13.790	MON
3000	2844473.453	1004713.942	15.340	MON
3001	2846276.832	1003366.544	8.206	TBAR
3002	2846413.077	1003396.544	8.221	TBAR

Staked Centerline Data

Point Number	Station	Elev.	Type Remarks
441	100+00.00	16.75	Pk nail PROVLAND
442	100+50.00	16.44	Pk nail PROVLAND
443	101+00.00	17.46	Pk nail PROVLAND
444	101+50.00	17.22	Pk nail PROVLAND
445	102+00.00	16.99	Pk nail PROVLAND
446	102+50.00	16.82	Pk nail PROVLAND
447	103+00.00	16.69	Pk nail PROVLAND
448	103+50.00	16.46	Pk nail PROVLAND
449	104+00.00	16.25	Pk nail PROVLAND
450	104+50.00	16.08	Pk nail PROVLAND
451	104+64.21	16.05	Pk nail PROVLAND
452	105+00.00	15.90	Pk nail PROVLAND
453	105+50.00	15.66	Pk nail PROVLAND
454	106+00.00	15.41	Pk nail PROVLAND
455	106+50.00	15.22	Pk nail PROVLAND
456	107+00.00	15.06	Pk nail PROVLAND
457	107+50.00	14.85	Pk nail PROVLAND
458	108+00.00	14.85	Pk nail PROVLAND
459	108+50.00	14.88	Pk nail PROVLAND
460	108+62.34	14.98	Pk nail PROVLAND
461	109+00.00	15.12	Pk nail PROVLAND
462	109+50.00	15.41	Pk nail PROVLAND
463	110+00.00	15.96	Pk nail PROVLAND
464	110+50.00	16.27	Pk nail PROVLAND
465	111+00.00	16.66	Pk nail PROVLAND
466	111+50.00	16.70	Pk nail PROVLAND
467	112+00.00	16.66	Pk nail PROVLAND
468	112+50.00	16.44	Pk nail PROVLAND
469	113+00.00	16.08	Pk nail PROVLAND



NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	A4

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

SURVEY INFORMATION

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	CI

SCHEDULE A

PLAN SHEET SECTION ----->>			Intersect Work	Race Point Road	Marconi Beach Road	ESTIMATED QUANTITIES	
ITEM	DESCRIPTION	UNIT				PLAN	BID SCHEDULE
15101-0000	MOBILIZATION	LPSM	ALL	ALL	ALL	ALL	ALL
15201-0000	CONSTRUCTION SURVEY AND STAKING	LPSM	ALL	ALL	ALL	ALL	ALL
15401-0000	CONTRACTOR TESTING	LPSM	ALL	ALL	ALL	ALL	ALL
15705-0100	SOIL EROSION CONTROL, SILT FENCE	LNFT	2460	0	0	2460	2,600
15706-1000	SOIL EROSION CONTROL, INLET PROTECTION	EACH	8	0	0	8	8
15706-1600	SOIL EROSION CONTROL, STABILIZED CONSTRUCTION ENTRANCE	EACH	2	0	0	2	2
20101-0000	CLEARING AND GRUBBING	ACRE	2.38	0	0	2.4	2.5
20301-1400	REMOVAL OF INLET	EACH	1	0	0	1	1
20301-1500	REMOVAL OF LIGHT POLE	EACH	5	0	0	5	5
20301-2400	REMOVAL OF SIGN	EACH	25	0	0	25	25
20302-0600	REMOVAL OF CURB, STONE	LNFT	565	0	0	565	580
20302-2600	REMOVAL OF PAVEMENT MARKINGS	LNFT	0	43168	0	43168	47,700
20303-1600	REMOVAL OF PAVEMENT, ASPHALT	SQYD	2884	0	1466	4350	4,400
20420-0000	EMBANKMENT CONSTRUCTION	CUYD	2205	0	0	2205	2,400
30101-4000	AGGREGATE BASE GRADING C OR D	TON	2190	0	544	2734	3,000
30306-4000	PULVERIZING, 8-INCH DEPTH	SQYD	11596	0	0	11596	12,000
40101-0600	SUPERPAVE PAVEMENT, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO *3 MILLION ESAL	TON	1934	0	182	2116	2,300
40101-0600	SUPERPAVE PAVEMENT, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO *3 MILLION ESAL (Type V Smoothness)	TON	1613	0	182	1795	2,000
41001-2000	SLURRY SEAL, TYPE 2	SQYD	0	26380	0	26380	29,000
41410-1000	CRACK, CLEANING AND SEALING	LNFT	0	0	2500	2500	2,500
60201-0500	15-INCH PIPE CULVERT	LNFT	136	0	0	136	140
60404-1000	CATCH BASIN, TYPE 1	EACH	3	0	0	3	3
60406-0000	INLET ADJUSTMENT	EACH	13	0	0	13	13
60411-0000	INLET MODIFICATION	EACH	1	0	0	1	1
60901-2100	CURB, ASPHALT, 4-INCH DEPTH (CAPE COD BERM)	LNFT	8904	0	1200	10104	10,300
60910-0000	RESET CURB (STONE)	LNFT	260	0	0	260	270

PLAN SHEET SECTION ----->>			Intersect Work	Race Point Road	Marconi Beach Road	ESTIMATED QUANTITIES	
ITEM	DESCRIPTION	UNIT				PLAN	BID SCHEDULE
61902-0000	GATE	EACH	2	0	0	2	2
62901-0700	ROLLED EROSION CONTROL PRODUCT, TYPE 2.C	SQYD	1374	0	0	1374	1,500
63304-0900	SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING	SQFT	281	15	0	296	310
63316-1000	REMOVE AND RESET SIGN	EACH	1	4	0	5	5
63401-1500	PAVEMENT MARKINGS, TYPE H, SOLID	LNFT	24874	43200	0	68074	72,000
63401-1600	PAVEMENT MARKINGS, TYPE H, BROKEN	LNFT	2100	0	0	2100	2,200
63403-0800	PAVEMENT MARKINGS, TYPE H	SQFT	288	40	0	328	340
63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3	EACH	10	0	0	10	10
63502-0800	TEMPORARY TRAFFIC CONTROL, CONE, TYPE 18-INCH	EACH	0	0	0	40	40
63502-1300	TEMPORARY TRAFFIC CONTROL, DRUM	EACH	0	0	0	100	100
63502-1500	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE A	EACH	0	0	0	10	10
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C	EACH	0	0	0	90	90
63503-0700	TEMPORARY TRAFFIC CONTROL, PAVEMENT MARKINGS	LNFT	3800	0	0	3800	4,000
63503-0900	TEMPORARY TRAFFIC CONTROL, SNOW FENCE	LNFT	0	0	0	200	200
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	SQFT	0	0	0	750	750
63506-0400	TEMPORARY TRAFFIC CONTROL, POLICE OFFICER	HOURL	0	0	0	460	460
63701-0000	FIELD OFFICE	EACH	0	0	0	1	1

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

TABULATION OF QUANTITIES

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	C2

OPTION 1

PLAN SHEET SECTION ----->>			Marconi Site Road	Moors Road	Old Dewline Road	ESTIMATED QUANTITIES	
ITEM	DESCRIPTION	UNIT				PLAN	BID SCHEDULE
15101-0000	MOBILIZATION	LPSM	ALL	ALL	ALL	ALL	ALL
15201-0000	CONSTRUCTION SURVEY AND STAKING	LPSM	ALL	ALL	ALL	ALL	ALL
15401-0000	CONTRACTOR TESTING	LPSM	ALL	ALL	ALL	ALL	ALL
15705-0100	SOIL EROSION CONTROL, SILT FENCE	LNFT	0	500	0	500	500
20302-2600	REMOVAL OF PAVEMENT MARKINGS	LNFT	3500	0	0	3500	3,500
20303-1600	REMOVAL OF PAVEMENT, ASPHALT	SOYD	3778	978	0	4756	4,900
30301-6000	ROADWAY RECONDITIONING	STA	17	0	0	17	17
30305-2000	PULVERIZING, 4-INCH DEPTH	STA	28	0	0	28.00	28.00
40101-0600	SUPERPAVE PAVEMENT, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL	TON	472	242	609	1323	1,500
40101-0600	SUPERPAVE PAVEMENT, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL (Type V Smoothness)	TON	472	122	456	1050	1,200
41001-2000	SLURRY SEAL, TYPE 2	SOYD	11381	0	0	11381	12,000
41410-1000	CRACK, CLEANING AND SEALING	LNFT	700	0	0	700	750
60901-2100	CURB, ASPHALT, 4-INCH DEPTH (CAPE COD BERM)	LNFT	3379	792	0	4171	4,400
63401-1500	PAVEMENT MARKINGS, TYPE H, SOLID	LNFT	10243	1600	5597	17440	18,000
63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3	EACH	0	0	2	2	2
63502-0800	TEMPORARY TRAFFIC CONTROL, CONE, TYPE 18-INCH	EACH	0	0	0	20	20
63503-0900	TEMPORARY TRAFFIC CONTROL, SNOW FENCE	LNFT				200	200
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	SOFT	0	0	0	75	75
63506-0400	TEMPORARY TRAFFIC CONTROL, POLICE OFFICER	HOUR	0	0	0	300	300

OPTION 2

PLAN SHEET SECTION ----->>			ESTIMATED QUANTITIES	
ITEM	DESCRIPTION	UNIT	PLAN	BID SCHEDULE
15101-0000	MOBILIZATION	LPSM	ALL	ALL
20302-2600	REMOVAL OF PAVEMENT MARKINGS	LNFT	8400	8,400
41001-2000	SLURRY SEAL, TYPE 2	SOYD	20778	21,000
63401-1500	PAVEMENT MARKINGS, TYPE H, SOLID	LNFT	16760	17,000
63403-0800	PAVEMENT MARKINGS, TYPE H	SOFT	100	100
63506-0400	TEMPORARY TRAFFIC CONTROL, POLICE OFFICER	HOUR	160	160

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TABULATION OF QUANTITIES

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	C3

Mileage Tabulation - Schedule A

Roadway	Stations	Lanes	Length (mi)	Lane Miles
US Route 6 EB	50+00 to 63+40	1	0.25	0.25
US Route 6 WB/Moors Road	9+00 to 38+25	2	0.55	1.11
Province Lands Road	100+00 to 112+00	3	0.23	0.68
Marconi Beach Road*	1000+00 to 1085+00	2	1.61	3.22
Race Point Road	2000+00 to 2108+00	2	2.05	4.09
Total			4.69	9.35

*Reconstruction and crack sealing

Mileage Tabulation - Option 1

Roadway	Mileposts	Lanes	Length (mi)	Lane Miles
Marconi Site Road	0.00 to 0.97	2	0.97	1.94
Old Dewline Road	0.00 to 0.53	2	0.53	1.06
Moors Road	0.39 to 0.48	1	0.09	0.09
Moors Road	0.60 to 0.66	1	0.06	0.06
Total			1.59	3.09

Mileage Tabulation - Option 2

Roadway	Mileposts	Lanes	Length (mi)	Lane Miles
Marconi Beach Road ⁺	1000+00 to 1085+00	2	1.61	3.22
Total			1.61	3.22

⁺ Slurry Sealing

Turn Lane Lengths

Roadway	Description	Stations		Length (ft)	
		Begin	End	Lane	Taper
US Route 6	Left Turn Lane	16+35	19+80	180	165
US Route 6	Right Turn Deceleration lane	21+15	24+65	185	165
Province Lands Road	Right Turn Lane	100+27	104+00	223	150

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MILEAGE TABULATION

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	C4

SOIL EROSION CONTROL SUMMARY

Sheet	STATION	Pay Item	Pay Item	Pay Item	REMARKS
		15705-0100	15706-1000	15706-1600	
		Soil Erosion Control, Silt Fence	Soil Erosion Control, Inlet Protection	Soil Erosion Control, Stabilized Construction Entrance	
		Lnft	Each	Each	
	Intersection Work				
M2	9+00 to 13+00	0	0	1	
M2	13+00 to 18+00	515	0	0	
M3	18+00 to 23+00	160	4	1	
M3	23+00 to 28+00	100	1	0	
M4	28+00 to 33+00	500	3	0	
M4	33+00 to 38+00	525	0	0	
M5	100+00 to 104+00	660	0	0	
	Subtotal	2,460	8	2	
E1-E6	Marconi Beach Road	0	0	0	
	Race Point Road	0	0	0	
	Marconi Site Road	0	0	0	
	Old Dewline Road	0	0	0	
	Moors Road	500	0	0	
	Subtotal this Sheet	2,960	8	2	
	Rounded Total	3,100	8	2	

Note:

Several locations of silt fence installation are for the prevention of wildlife entering the construction area.

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**EROSION CONTROL
SUMMARY**

EARTHWORK SUMMARY

SHEET	STATION OR MILEPOST	Pay Item	Pay Item	Pay Item	Pay Item	Pay Item	Pay Item	Pay Item	Pay Item	Pay Item	Pay Item	REMARKS
		20303-1600	20420-0000	30101-4000	30301-6000	30305-2000	30306-4000	40101-0600	40101-0600	41001-2000	41410-1000	
		Removal of Pavement, Asphalt	Embankment Construction	Aggregate Base, Grading C or D	Roadway Reconditioning	Pulverizing, 4" Depth	Pulverizing, 8" Depth	SACP 1/2" NMSA, 0.3M to < 3M ESALs	SACP 1/2" NMSA, 0.3M to < 3M ESALs (Type V Smoothness)	Slurry Seal, Type 2	Crack, Cleaning, and Sealing	
		Sqyd	Cuyd	Ton	Sta	Sta	Sqyd	Ton	Ton	Sqyd	Lnft	
	Intersection Work											
D2	9+00 to 13+00	346	214	85	0	0	1,001	155	148	0	0	
D3	13+00 to 18+00	1,407	496	263	0	0	1,116	229	183	0	0	
D4	18+00 to 23+00	1,131	894	469	0	0	1,470	360	330	0	0	
D5	23+00 to 28+00	0	45	253	0	0	1,345	251	201	0	0	
D6	28+00 to 33+00	0	165	304	0	0	1,970	360	288	0	0	
D7	33+00 to 38+00	0	255	59	0	0	3,134	391	313	0	0	
D10	100+00 to 104+00	0	136	758	0	0	1,561	188	150	0	0	
	Subtotal	2,884	2,205	2,190	0	0	11,596	1,934	1,613	0	0	
	Marconi Beach Road											
E1	1000+00 to 1014+00	92	0	34	0	0	0	11	11	3,422	2,500	
E2	1014+00 to 1028+00	122	0	45	0	0	0	15	15	3,422		
E3	1028+00 to 1042+00	305	0	113	0	0	0	38	38	3,422		
E4	1042+00 to 1056+00	0	0	0	0	0	0	0	0	3,422		
E5	1056+00 to 1070+00	122	0	45	0	0	0	15	15	3,422		
E6	1070+00 to 1084+00	825	0	307	0	0	0	103	103	3,422		
	Subtotal	1,466	0	544	0	0	0	182	182	20,533	2,500	
	Race Point Road											
F1-F8	2000+00 to 2108+00	0	0	0	0	0	0	0	0	26,380	0	
	Marconi Site Road											
B6	MP 0.00 to MP 0.06	711	0	0	3	0	0	89	89	704	700	
B6	MP 0.06 to MP 0.55	0	0	0	0	0	0	0	0	5,749		
B6	MP 0.55 to MP 0.62	822	0	0	4	0	0	104	104	821		
B6	MP 0.62 to MP 0.78	0	0	0	0	0	0	0	0	1,877		
B6	MP 0.78 to MP 0.97	2,244	0	0	10	0	0	279	279	2,229		
	Subtotal	3,778	0	0	17	0	0	472	472	11,381	700	
	Old Dewline Road											
B7	MP 0.00 to MP 0.53	0	0	0	0	28	0	609	456	0	0	
	Moors Road											
B7	MP 0.39 to MP 0.48	587	0	0	0	0	0	145	73	0	0	
B7	MP 0.60 to MP 0.66	391	0	0	0	0	0	97	48	0	0	
	Subtotal	978	0	0	0	0	0	242	121	0	0	
	Subtotal this Sheet	9,106	2,205	2,734	17	28	11,596	3,439	2,844	58,294	3,200	
	Rounded Total	9,300	2,400	3,500	17	28	12,000	3,800	3,300	62,000	3,250	

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EARTHWORK SUMMARY

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	C7

PERMANENT SIGNS

SHEET	LOCATION		MUTCD NO.	SIGN TEXT	PANEL SIZE			COLOR COMBINATION	QUANTITY	Pay Item	Pay Item	SUPPORT (NO PAY)	REMARKS
	STATION	OFFSET			WIDTH	HEIGHT	AREA			63304-0900	63316-1000		
										Signs, Aluminum Panels, Type 3 Sheeting	Remove and Reset Sign		
					(in)	(in)	(sqft)			Sqft	Each	ft	
P1 P1 P2	13+50 14+00 19+75	LT LT LT	R1-1	Stop	30	30	6.25	White on Red	3	18.75		32	
P1 P2	9+50 57+00	LT LT	R2-1	Speed Limit 30	24	30	5.00	Black on White	2	10.00		21	
P3	59+00	LT	R2-1	Speed Limit 40	24	30	5.00	Black on White	1	5.00		11	
P3	31+00	LT&RT	R2-1	Speed Limit 50	24	30	5.00	Black on White	2	10.00		21	
P2	20+30	LT	R3-1	No Right Turn (Symbol)	24	24	4.00	Black & Red on White	1	4.00		10	
P4	104+50 106+00	RT RT	R3-7L	Left Lane Must Turn Left	30	30	6.25	Black on White	2	12.50		21	
P2	27+70	LT	R4-7	Keep Right (Symbol)	24	30	5.00	Black on White	1	5.00		11	
P1	13+50 14+00	LT LT	R5-1	Do Not Enter	30	30	6.25	White on Red on White	2	12.50		21	
P2	51+50	LT	Special-1	Guide sign	126	48	42.00	White on Brown	1	42.00		24	
P4	103+20	RT	Special-2	Herring Cove Beach Exit Only Race Point	120	54	45.00	White on Brown	1	45.00		25	
P3	55+25 55+75 56+25	LT LT LT	W1-8	Chevron (Symbol)	30	36	7.50	Black on Yellow	3	22.50		33	
P1 P2	9+50 18+50	LT LT	W2-2	Intersection Warning (Symbol)	30	30	6.25	Black on Yellow	2	12.50		21	
P4	105+00	LT	W3-1	Stop Ahead (Symbol)	36	36	9.00	Black & Red on Yellow	1	9.00		11	
P3	58+00	LT	W3-5	Speed Limit 30 Ahead (Symbol)	36	36	9.00	Black & White on Yellow	1	9.00		11	
P3	60+00	LT	W3-5	Speed Limit 40 Ahead (Symbol)	36	36	9.00	Black & White on Yellow	1	9.00		11	
P3	62+50	LT&RT	W4-2R	Right Lane Ends (Symbol)	36	36	9.00	Black on Yellow	2	18.00		22	
P2	25+00	RT	W6-1	Divided Highway (Symbol)	36	36	9.00	Black on Yellow	1	9.00		11	
P3	54+50	LT	W6-2	Divided Highway Ends (Symbol)	36	36	9.00	Black on Yellow	1	9.00		11	
P3	67+50	LT&RT	W9-1R	Right Lane Ends	36	36	9.00	Black on Yellow	2	18.00		22	
F1 F2 F7 F7	2013+00 2013+00 2085+00 2085+00	RT LT RT LT	W16-7p	Diagonal Downward Arrow (Symbol)	30	18	3.75	Florescent Yellow	4	15.00		--	Mount under reset W11-1
P1	11+00	LT	Existing	South 6A	Existing				1		1	11	
F1 F2 F7 F7	2013+00 2013+00 2085+00 2085+00	RT LT RT LT	Existing W11-1	Bike (Symbol)	Existing				4		4	44	Originally at 2010+50 RT Originally at 2015+50 LT Originally at 2082+00 RT Originally at 2089+00 LT
Subtotal this Sheet									39	296	5	404	
Rounded Total									*	310	5	*	

* For information only

Note:

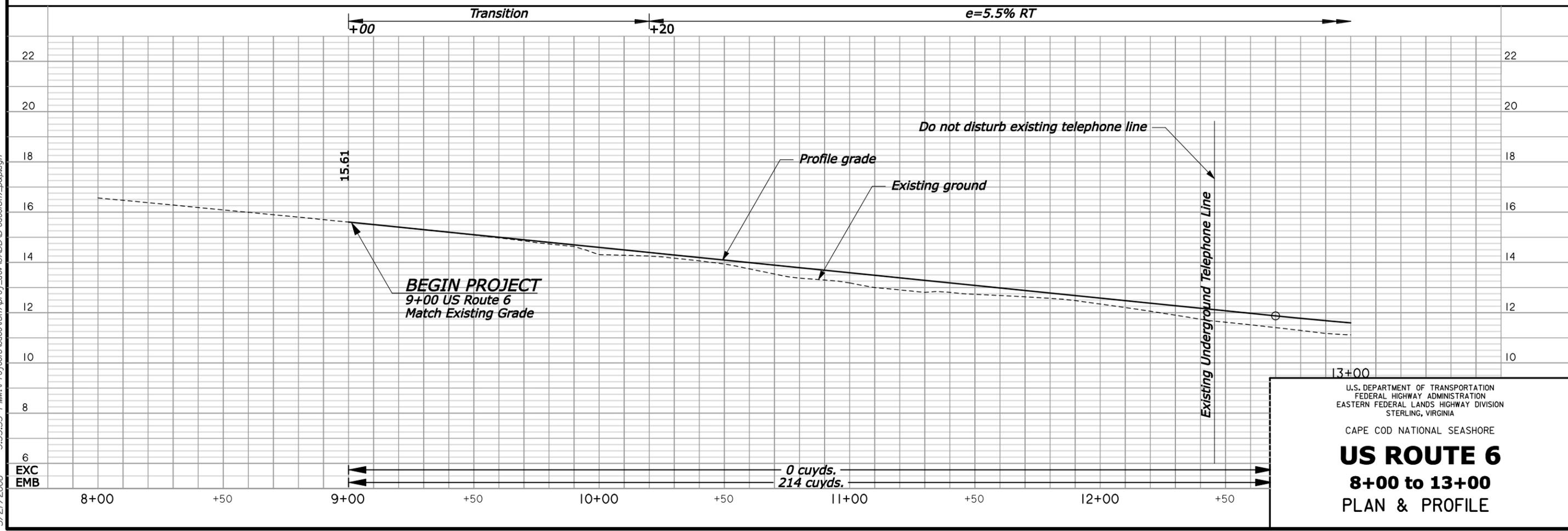
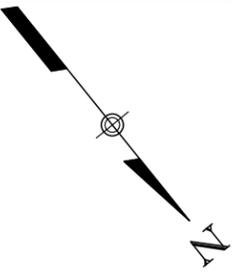
Construct and erect all signs in accordance with the Manual of Uniform Traffic Control Devices (MUTCD), latest edition.

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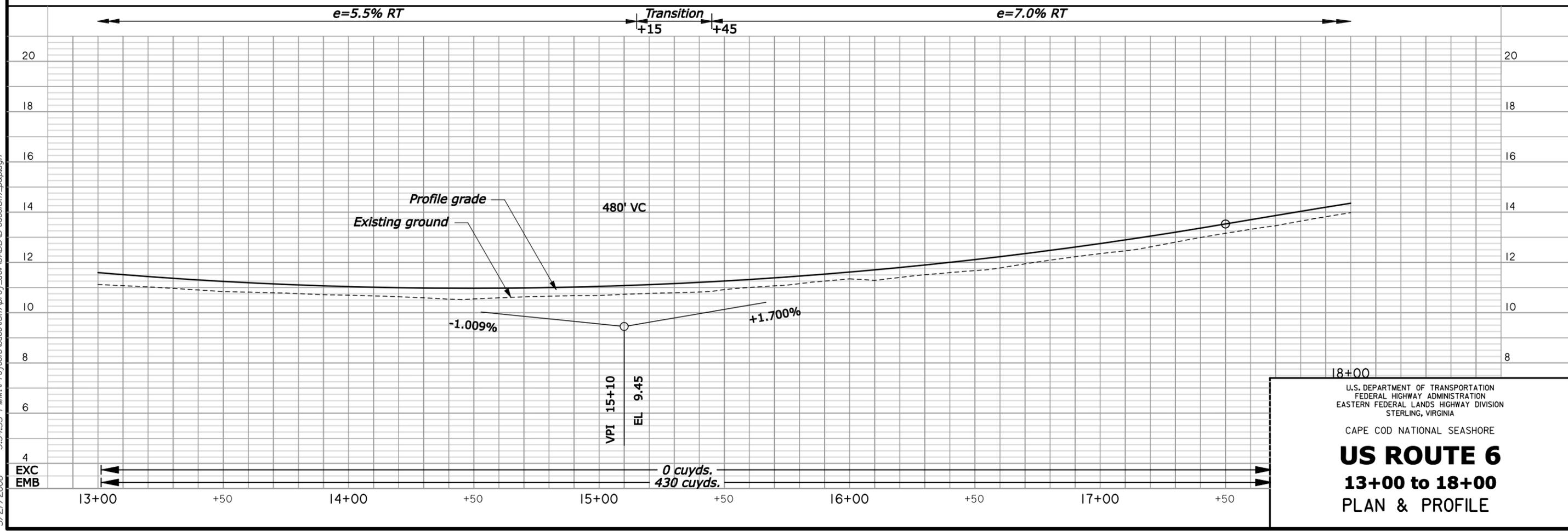
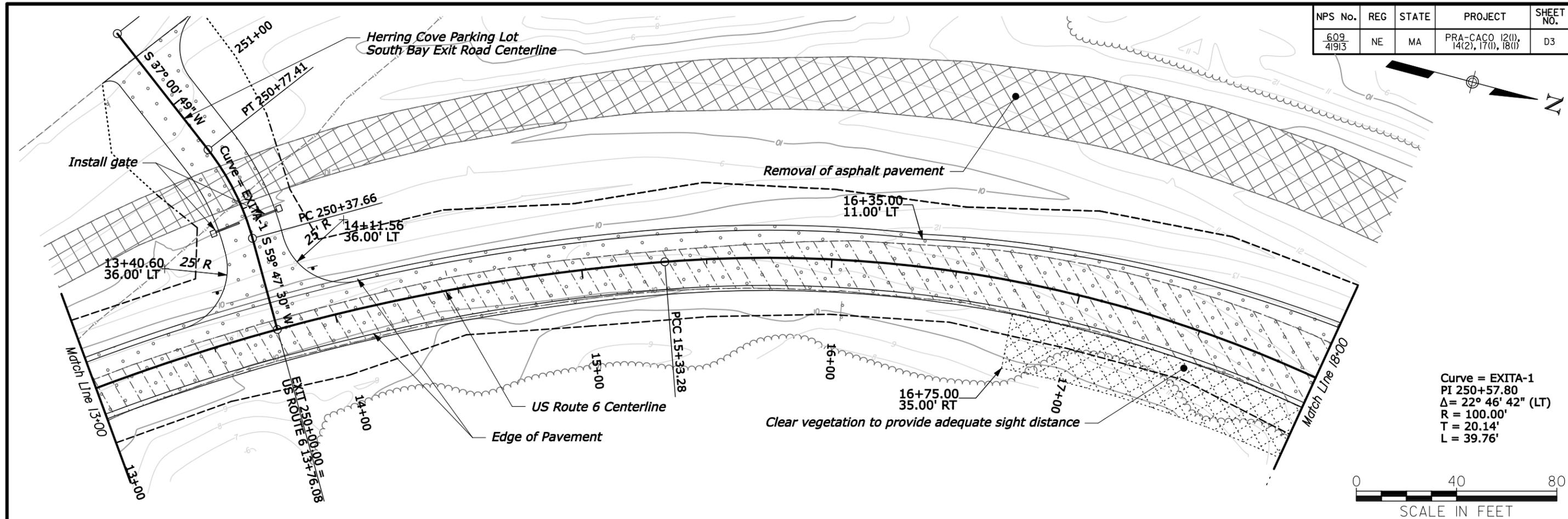
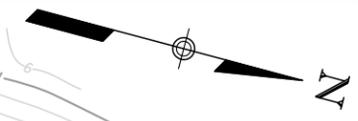
PERMANENT SIGN SCHEDULE

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D2



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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D3



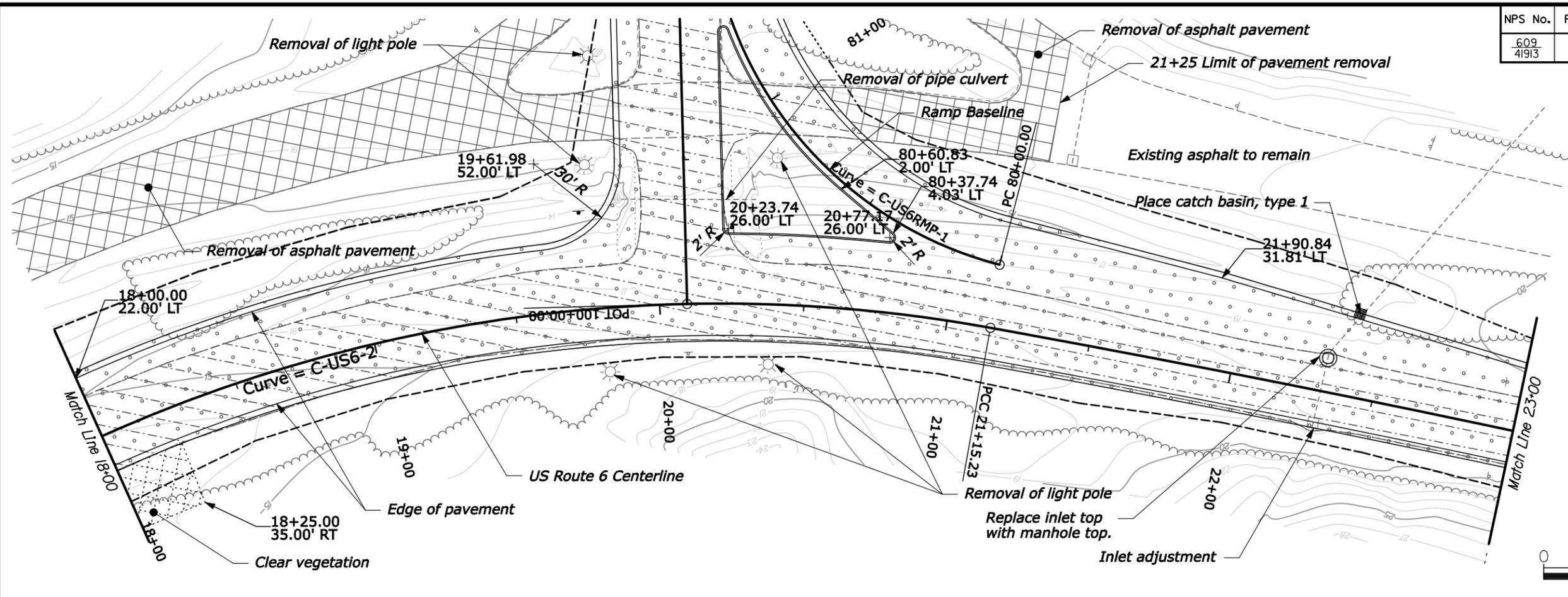
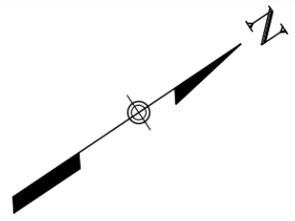
U.S. DEPARTMENT OF TRANSPORTATION
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CAPE COD NATIONAL SEASHORE

US ROUTE 6
13+00 to 18+00
PLAN & PROFILE

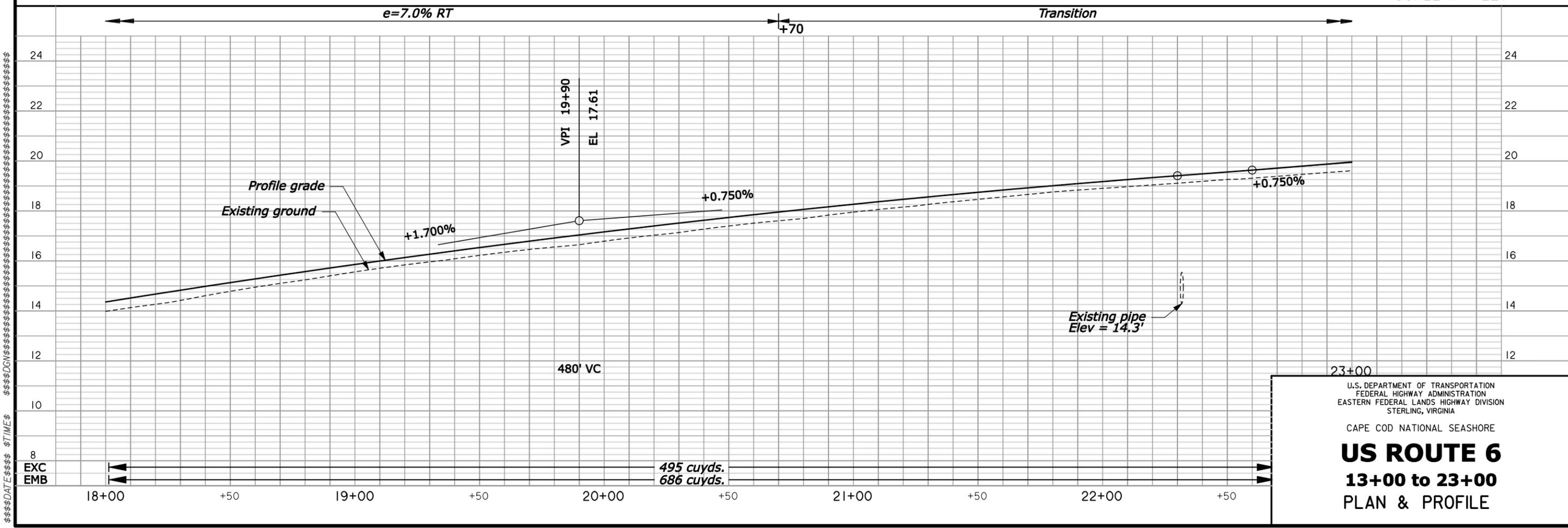
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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D4



Curve = C-US6-2
 PI 18+58.23
 $\Delta = 63^\circ 30' 37''$ (RT)
 R = 525.00'
 T = 324.95'
 L = 581.94'

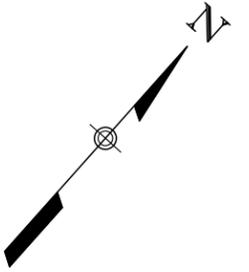
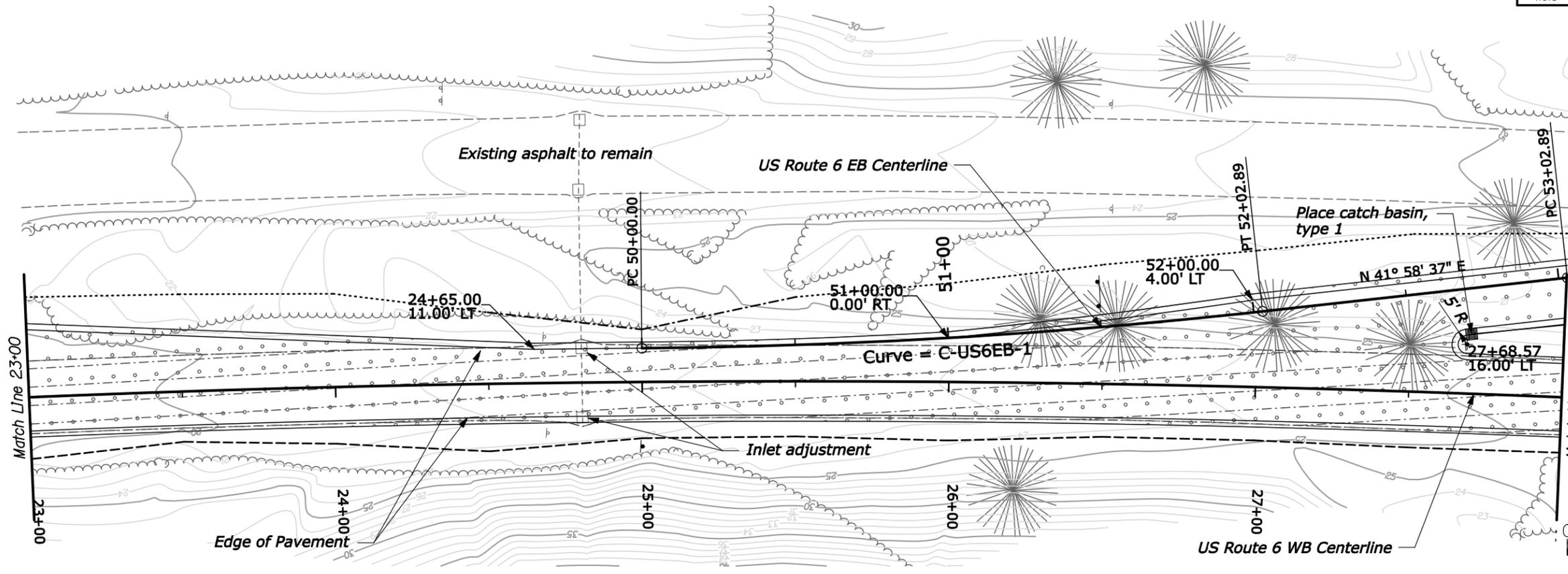
Curve = C-US6RMP-1
 PI 81+01.65
 $\Delta = 73^\circ 57' 33''$ (RT)
 R = 135.00'
 T = 101.65'
 L = 174.26'



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US ROUTE 6
13+00 to 23+00
 PLAN & PROFILE

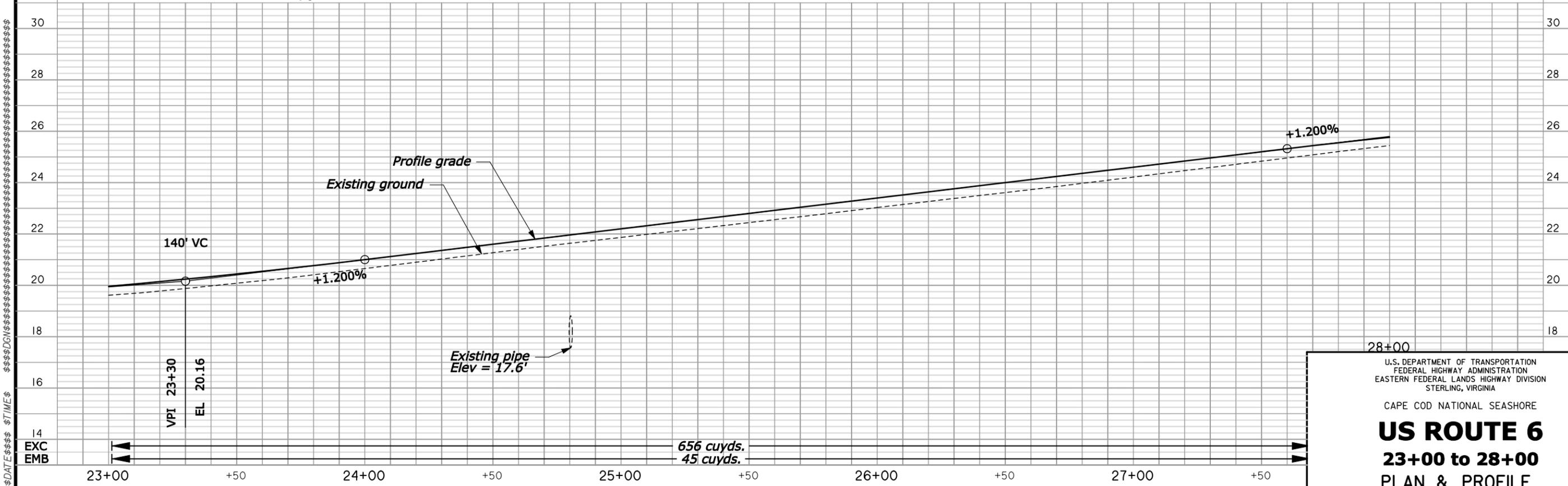
NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D5



Curve = US6EB-1
 PI 51+01.53
 $\Delta = 5^\circ 48' 44''$ (LT)
 R = 2,000.00'
 T = 101.53'
 L = 202.89'



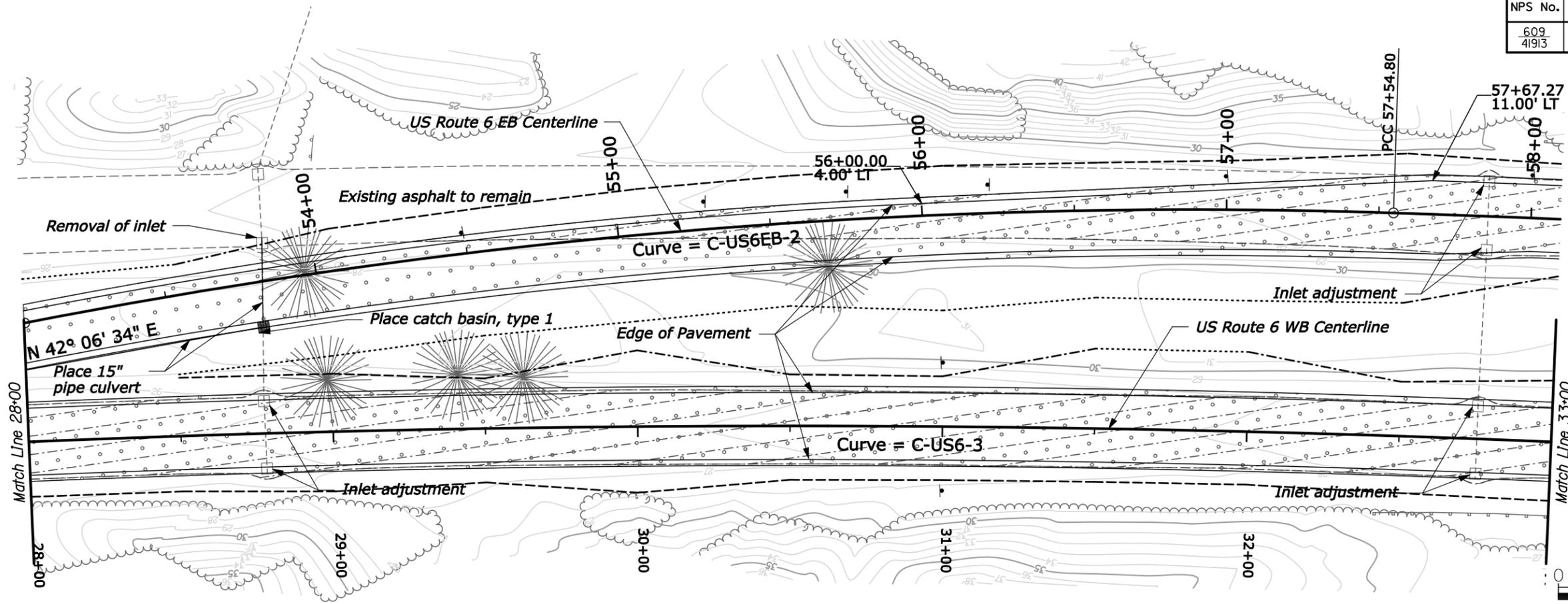
Transition ← +70 → Normal Crown →



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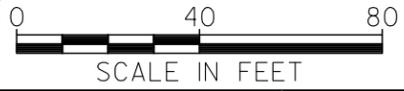
CAPE COD NATIONAL SEASHORE
US ROUTE 6
23+00 to 28+00
 PLAN & PROFILE

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D6

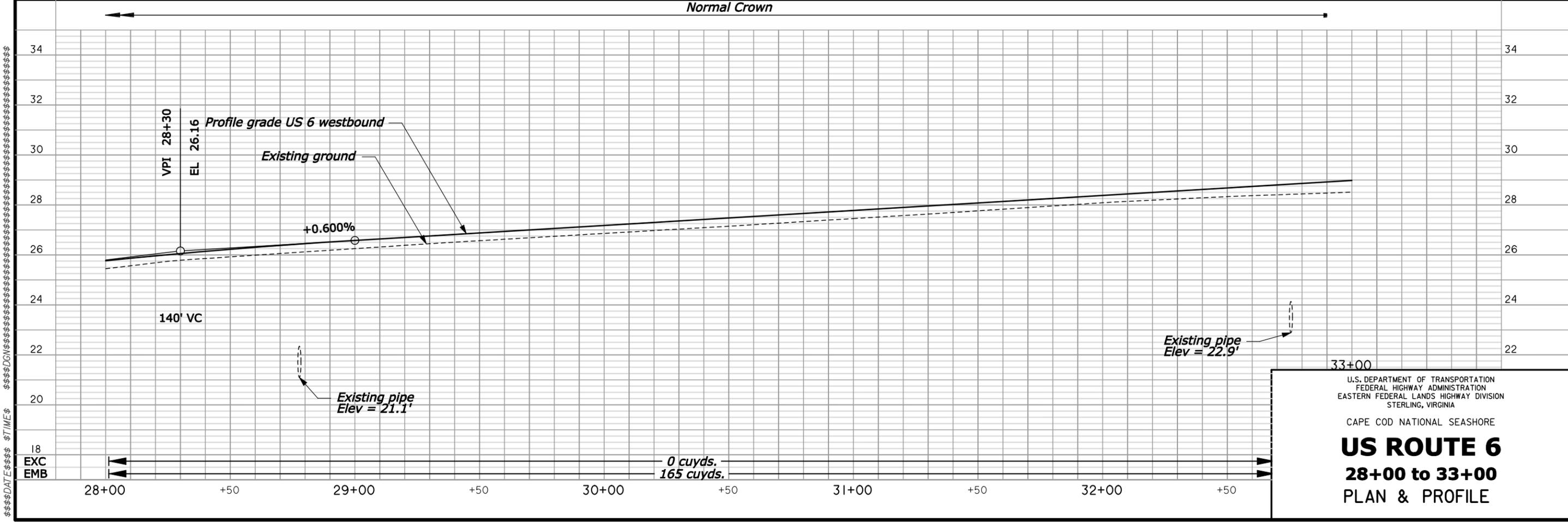


Curve = US6EB-2
 PI 55+29.81
 $\Delta = 12^\circ 56' 47''$ (RT)
 R = 2,000.00'
 T = 226.92'
 L = 451.91'

Curve = C-US6-3
 PI 31+01.37
 $\Delta = 18^\circ 40' 01''$ (RT)
 R = 6,000.00'
 T = 986.14'
 L = 1,954.81'



Normal Crown

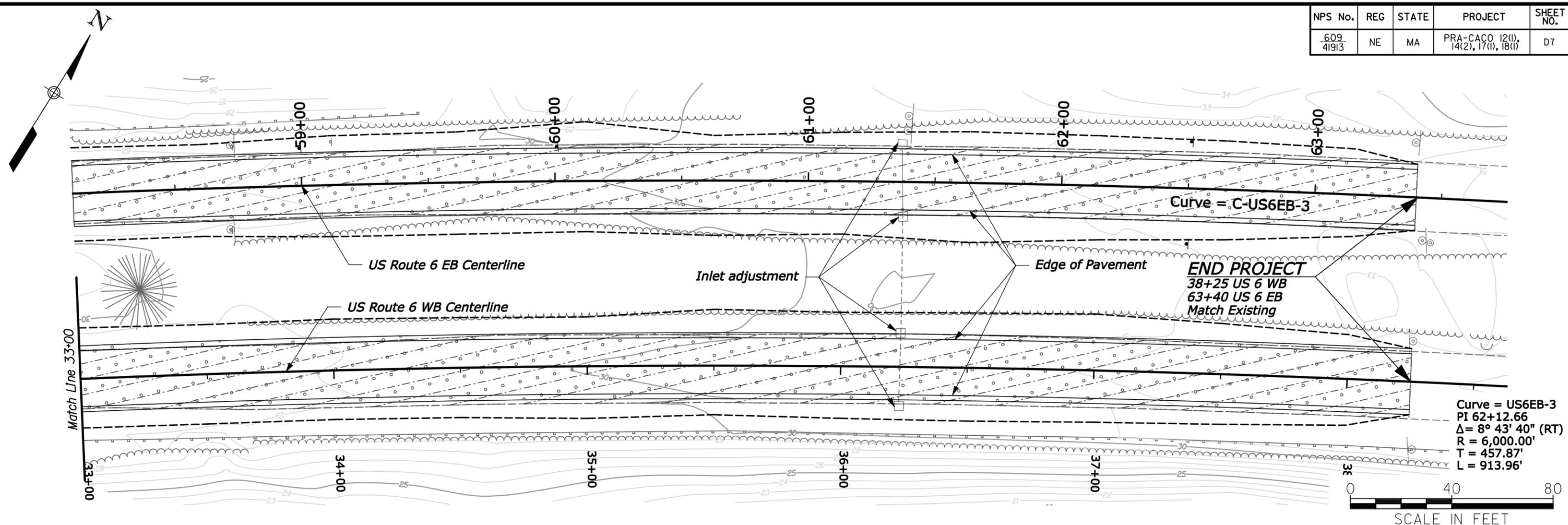


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CAPE COD NATIONAL SEASHORE
US ROUTE 6
28+00 to 33+00
PLAN & PROFILE

\$\$\$\$DATE\$\$\$\$ \$TIMES \$\$\$\$\$DGN\$\$\$\$

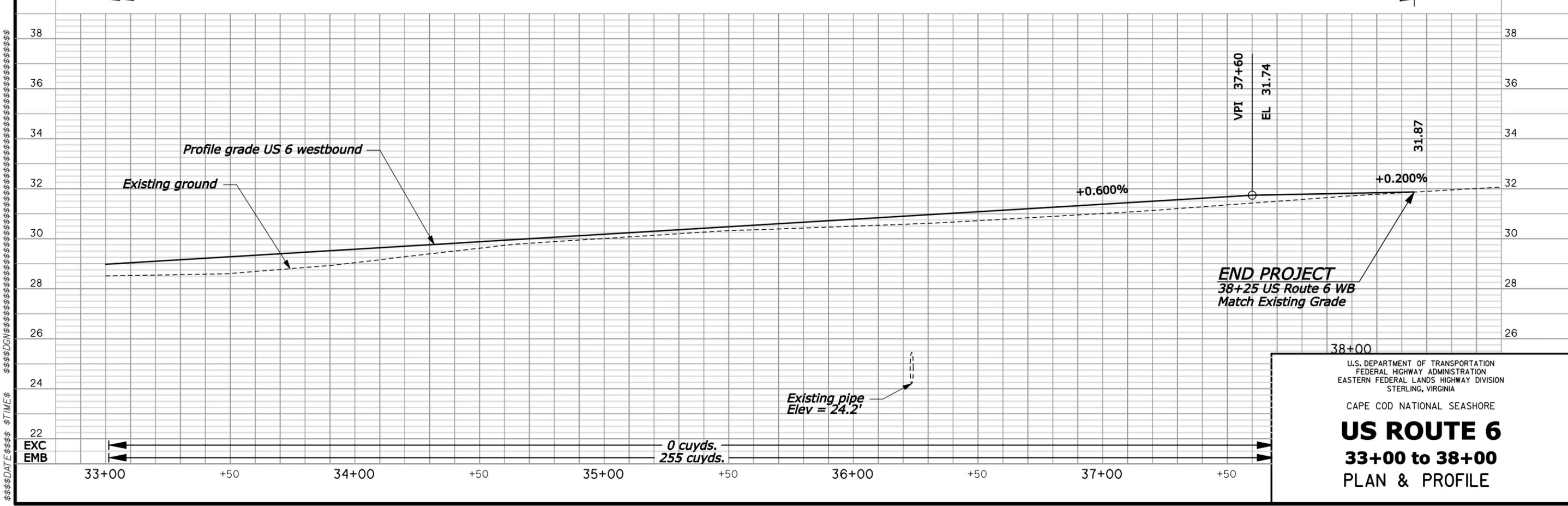
NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D7



Curve = US6EB-3
 PI 62+12.66
 $\Delta = 8^\circ 43' 40''$ (RT)
 R = 6,000.00'
 T = 457.87'
 L = 913.96'



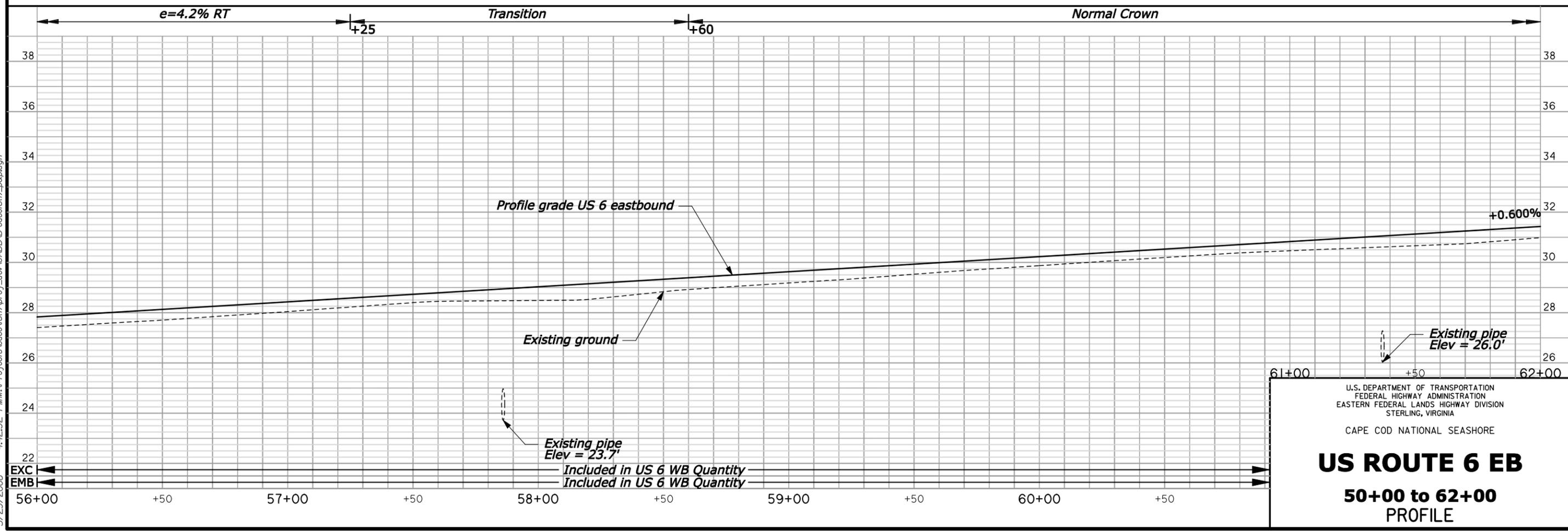
Normal Crown



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CAPE COD NATIONAL SEASHORE
US ROUTE 6
33+00 to 38+00
PLAN & PROFILE

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D8



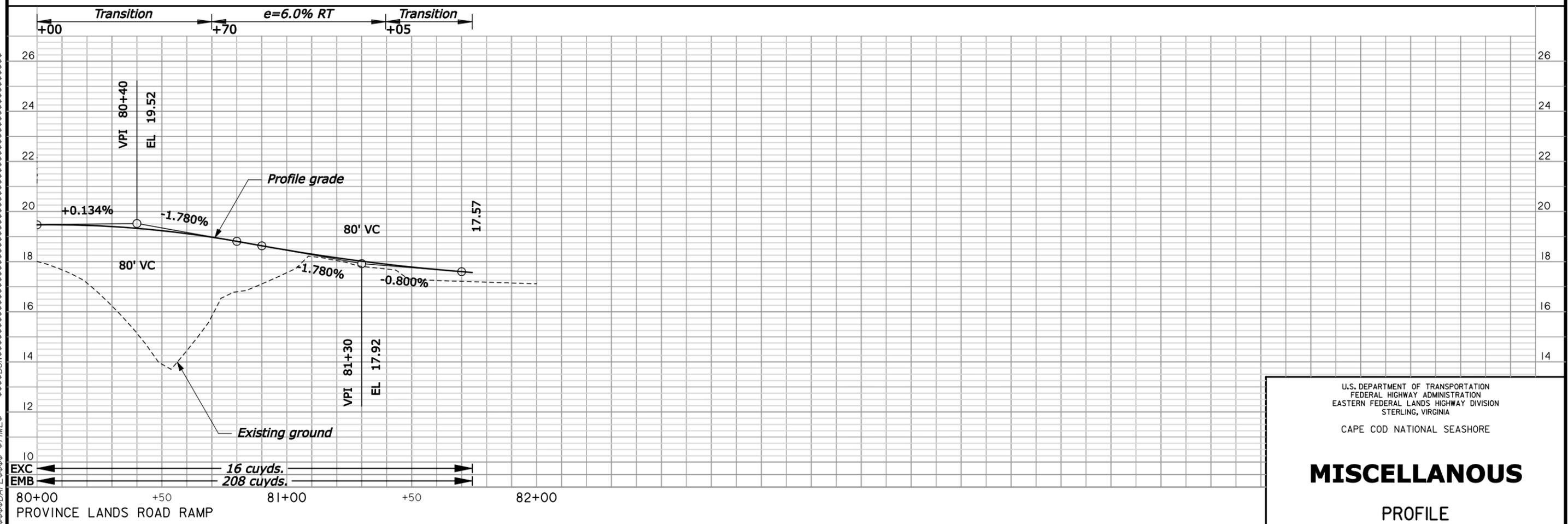
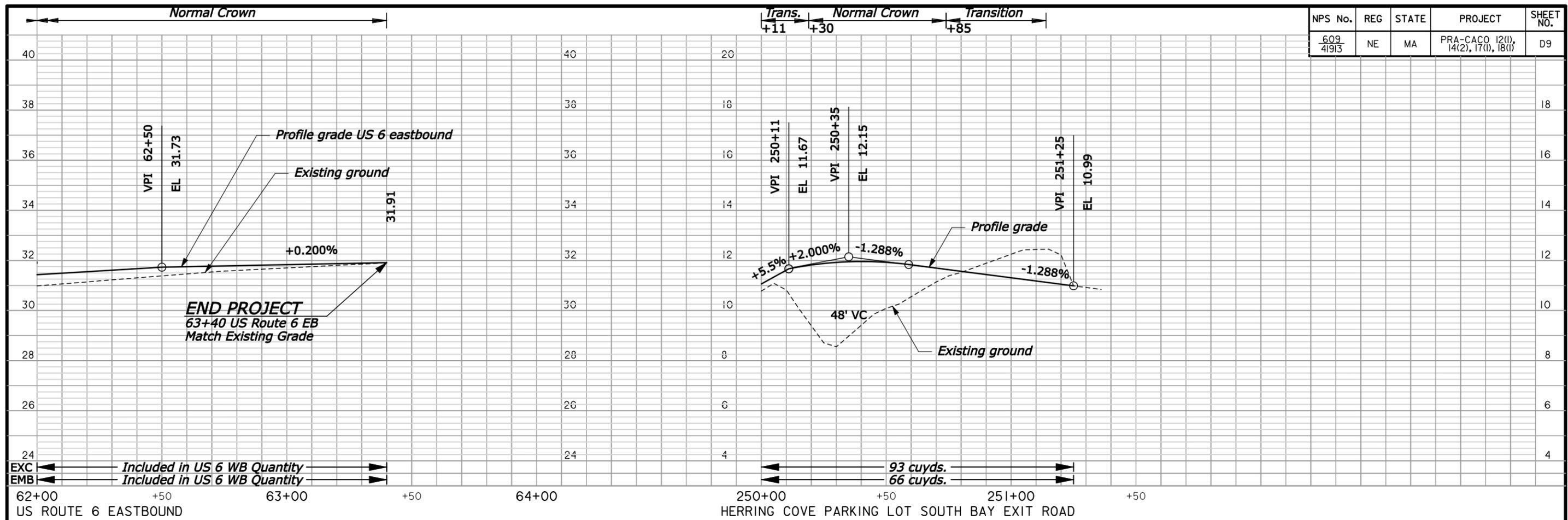
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CAPE COD NATIONAL SEASHORE

US ROUTE 6 EB
50+00 to 62+00
PROFILE

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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	D9



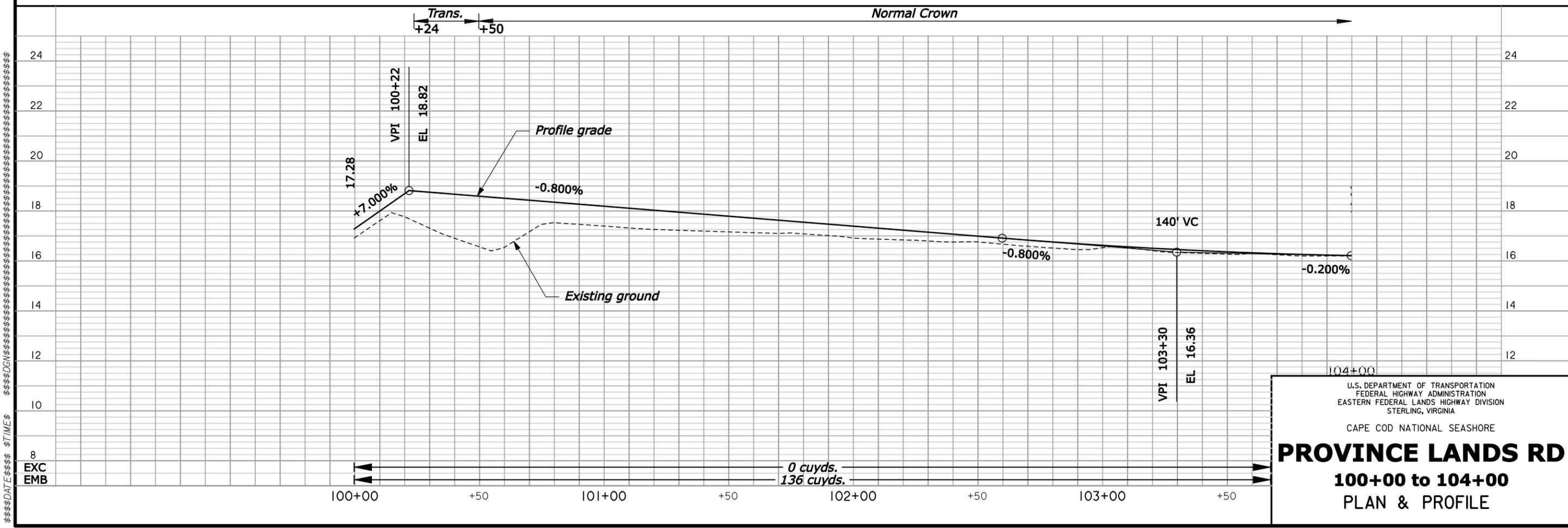
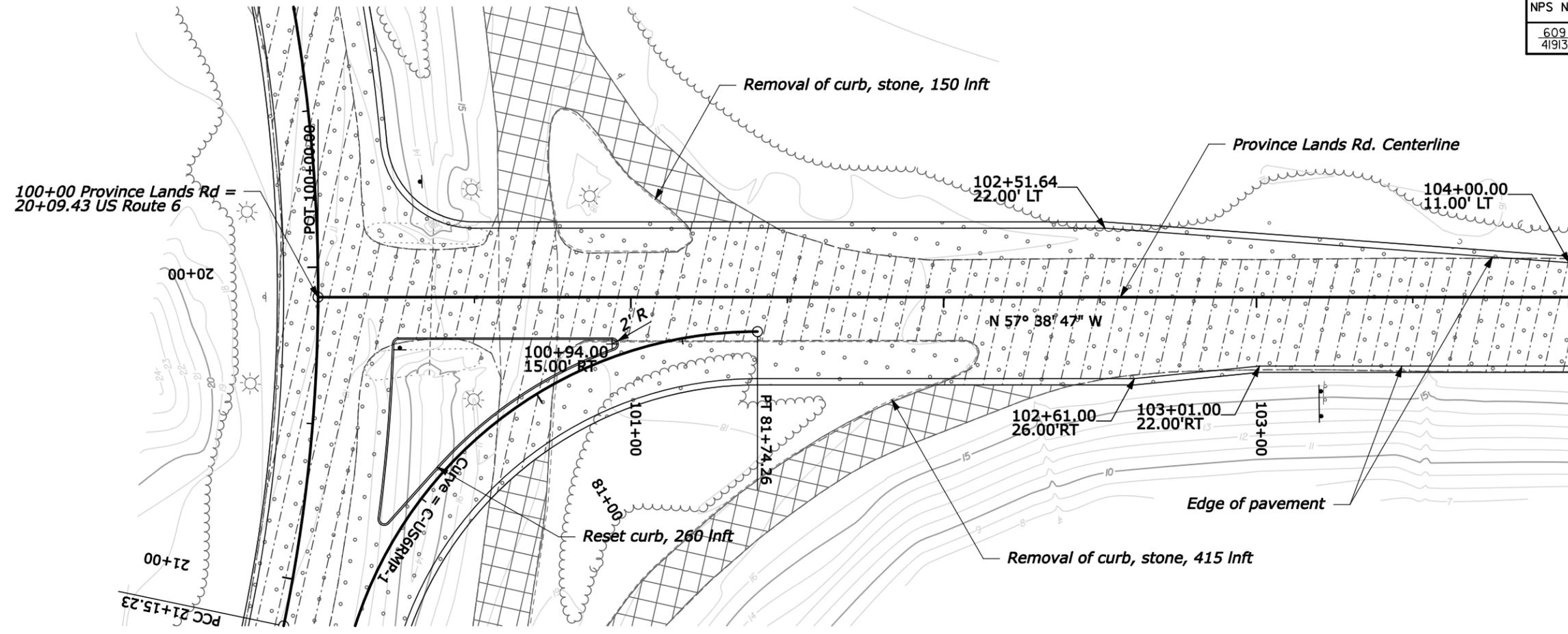
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CAPE COD NATIONAL SEASHORE

MISCELLANEOUS

PROFILE

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D10

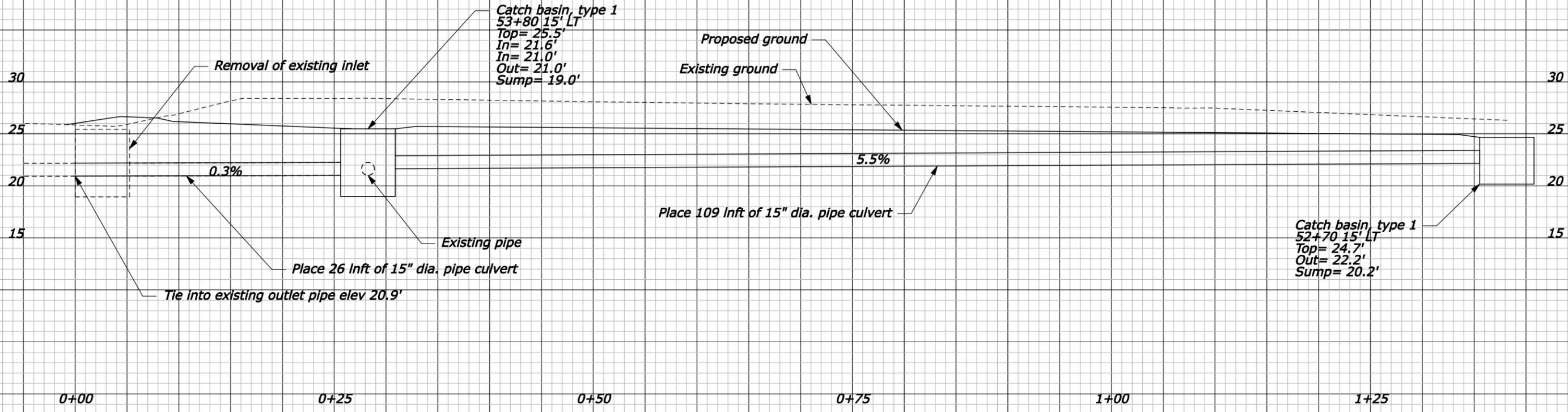


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CAPE COD NATIONAL SEASHORE

PROVINCE LANDS RD
100+00 to 104+00
PLAN & PROFILE

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	D11



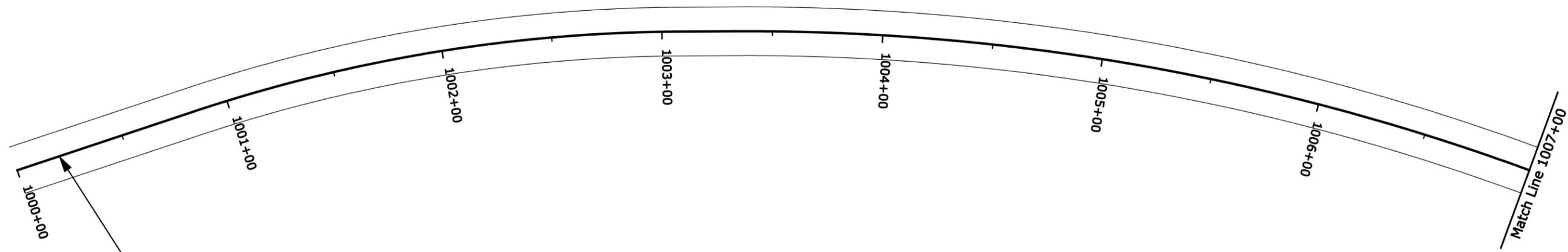
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 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

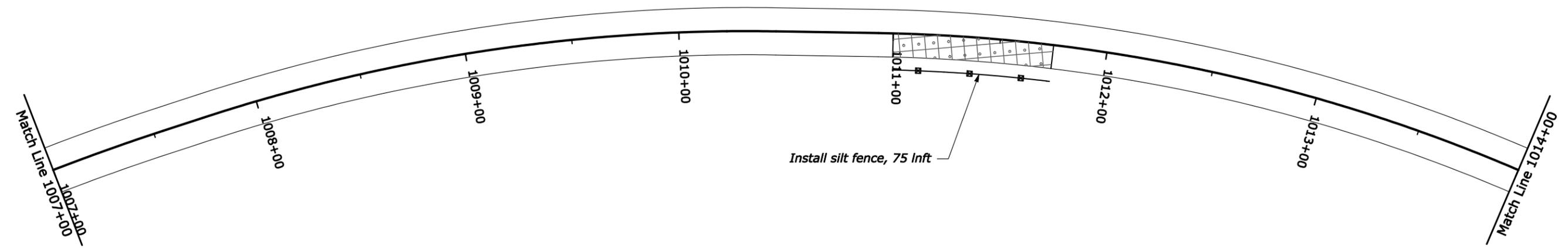
DRAINAGE CROSS SECTION

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	E1



LIMIT OF WORK
1000+20 Marconi Beach Road
Begin Slurry Seal

- Notes:
- 1) Remove all existing thermoplastic pavement markings prior to placing slurry seal.
 - 2) Place double yellow centerline. Replace all existing turn arrows and lane separator markings.
 - 3) Roadway was stationed by wheeling along the centerline with pk nails every 500' and station marks every 100'



Install silt fence, 75 lft

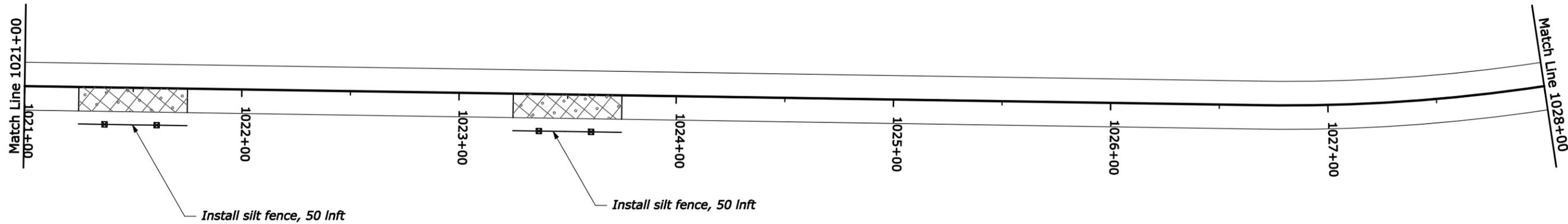
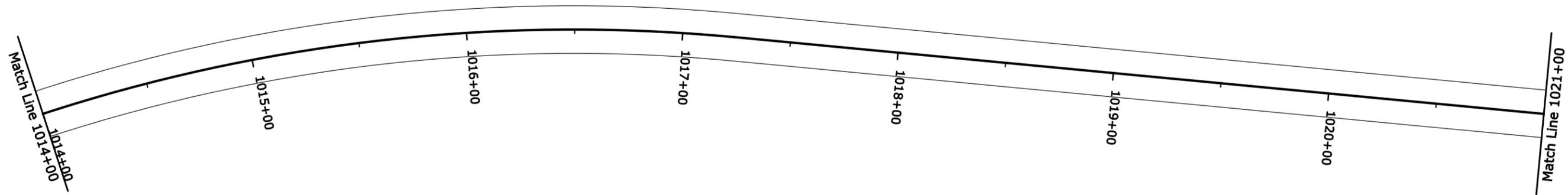
U.S. DEPARTMENT OF TRANSPORTATION
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EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE
MARCONI ROAD
1000+00 to 1014+00



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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	E2



\$\$\$\$DATE\$\$\$\$ \$TIMES\$\$\$\$DGN\$\$\$\$

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

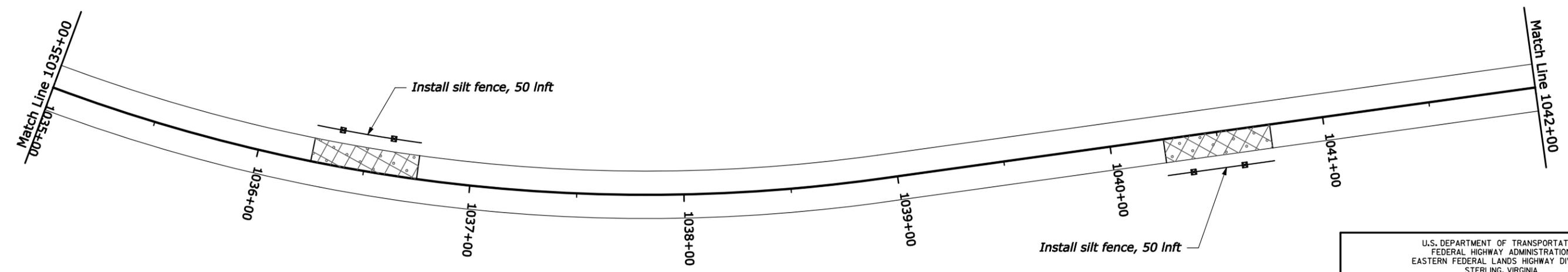
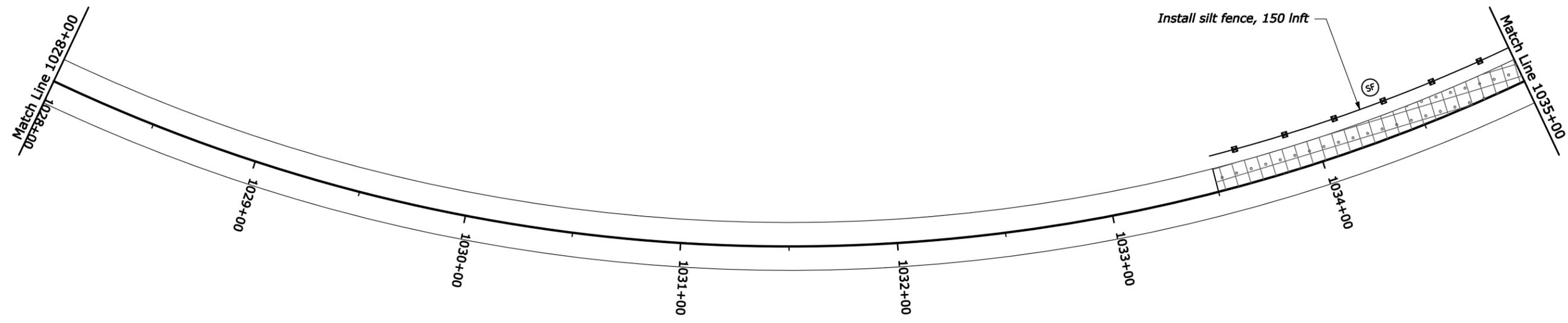
CAPE COD NATIONAL SEASHORE

MARCONI ROAD

1014+00 to 1028+00



NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	E3



\$\$\$\$\$DATE\$\$\$\$\$ TIMES\$\$\$\$\$

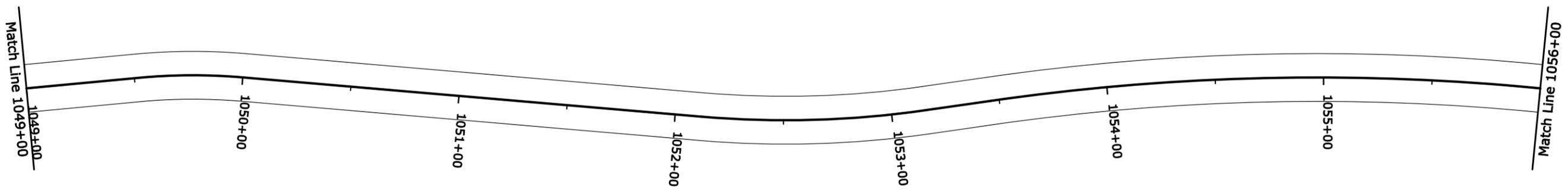
U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

MARCONI ROAD
 1028+00 to 1042+00

SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	E4



\$\$\$\$\$DATE\$\$\$\$\$ TIMES \$\$\$\$\$\$DGN\$\$\$\$\$

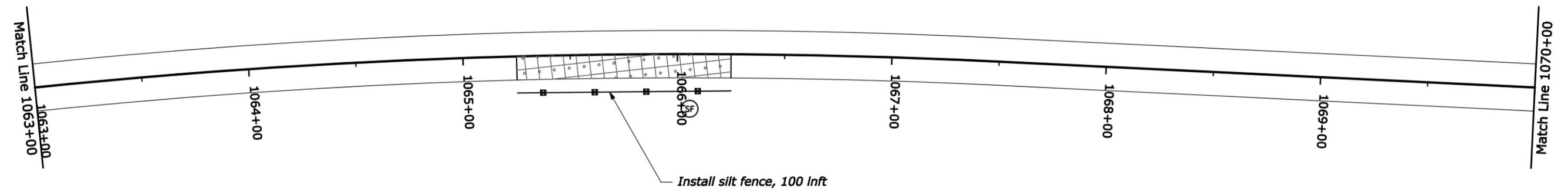
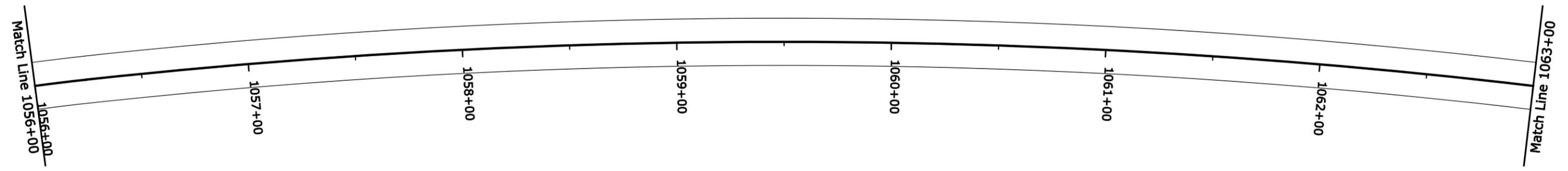
U.S. DEPARTMENT OF TRANSPORTATION
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 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

MARCONI ROAD
 1042+00 to 1056+00



NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	E5



\$\$\$\$\$DATE\$\$\$\$\$ DGN\$\$\$\$\$

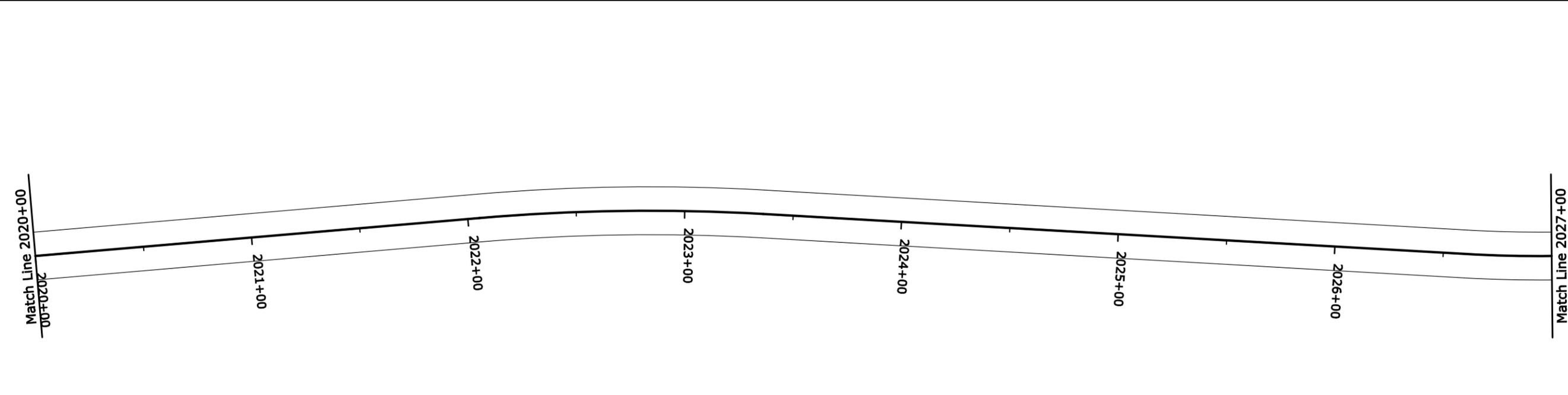
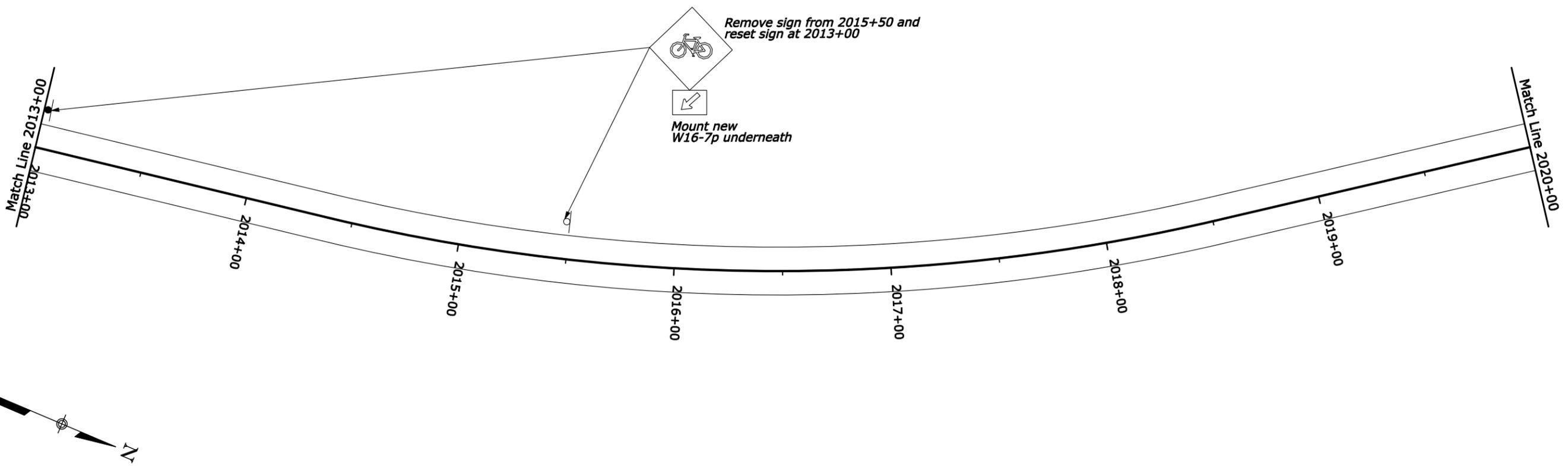
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 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

MARCONI ROAD
 1056+00 to 1070+00

SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	F2



\$\$\$\$DATE\$\$\$\$ \$TIMES\$\$\$\$DGN\$\$\$\$

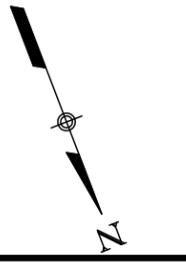
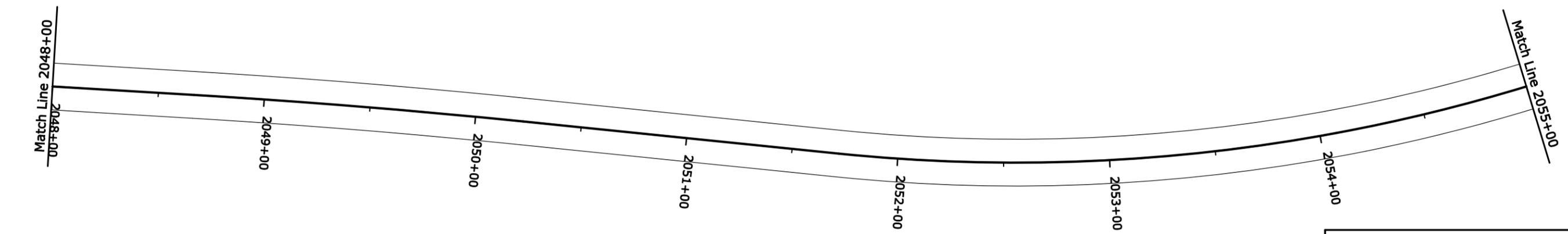
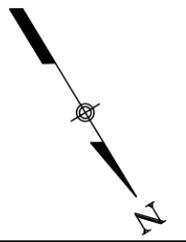
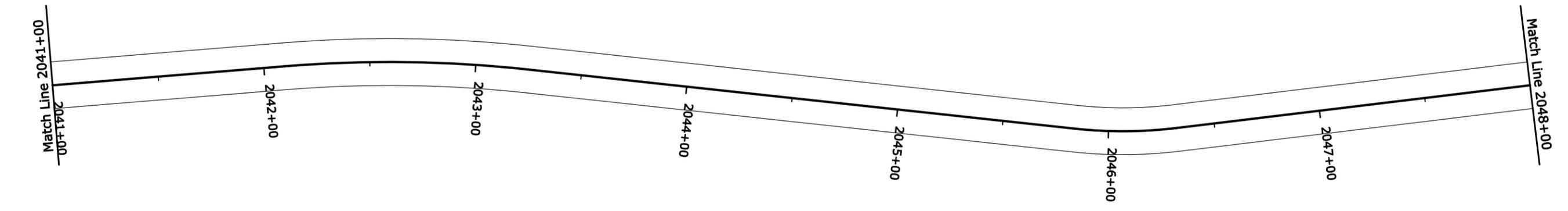
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 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

RACE POINT ROAD
 2013+00 to 2027+00

SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	F4



\$\$\$\$\$DATE\$\$\$\$\$ DGN\$\$\$\$\$

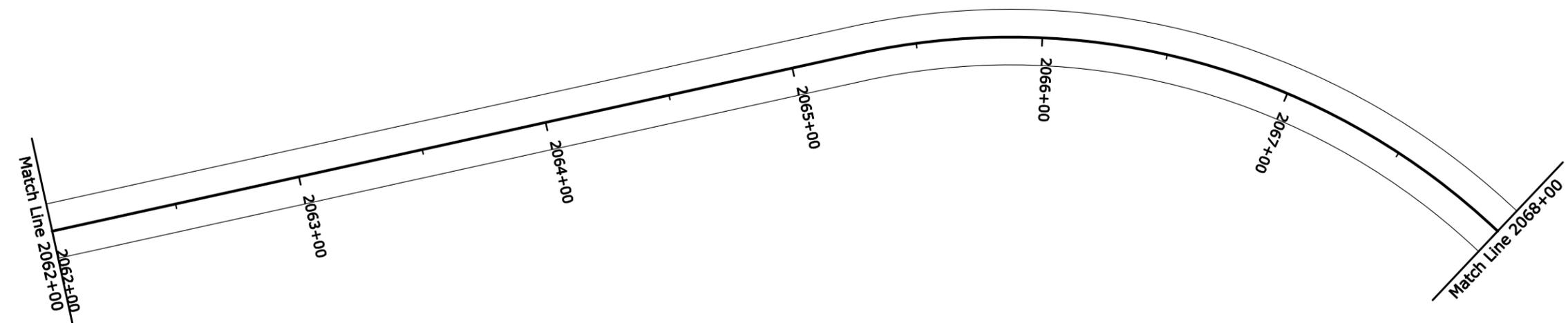
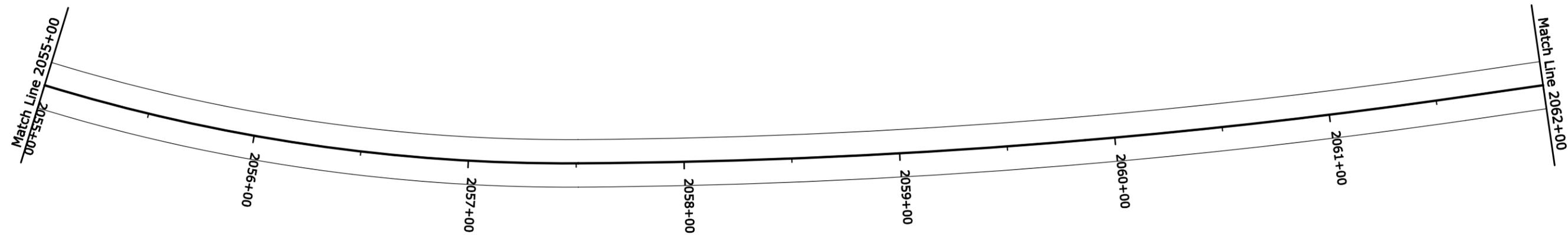
U.S. DEPARTMENT OF TRANSPORTATION
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 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

RACE POINT ROAD
 2041+00 to 2055+00

SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	F5



\$\$\$\$\$DATE\$\$\$\$\$ TIMES \$\$\$\$\$\$DGN\$\$\$\$\$

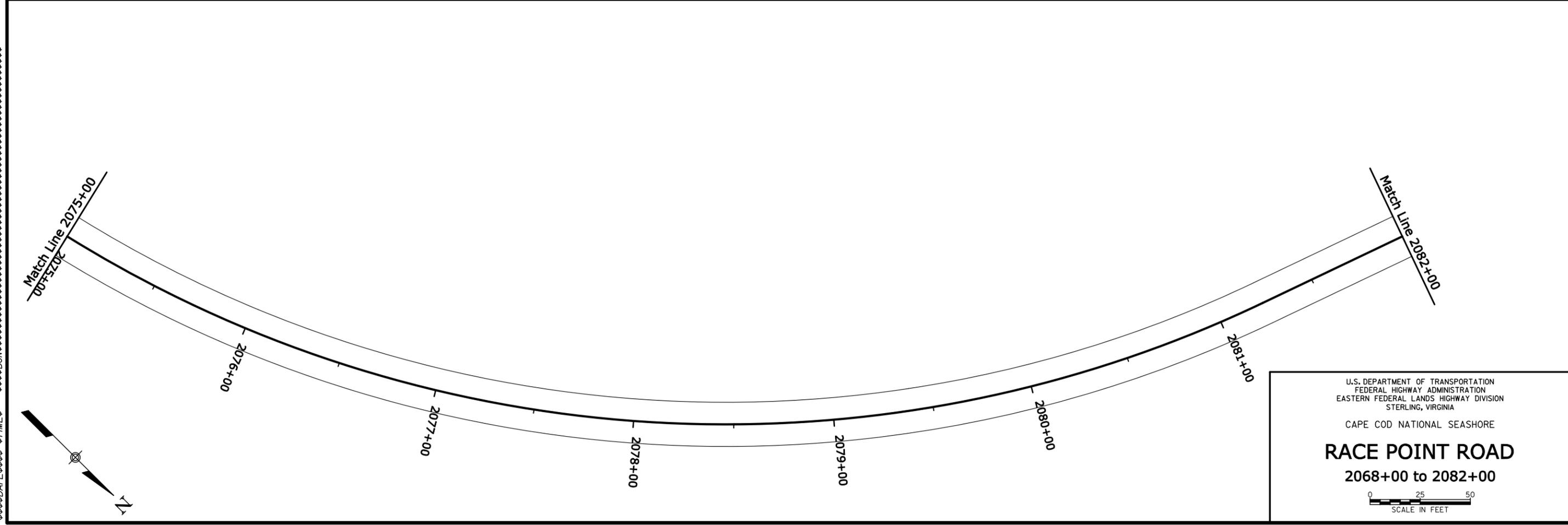
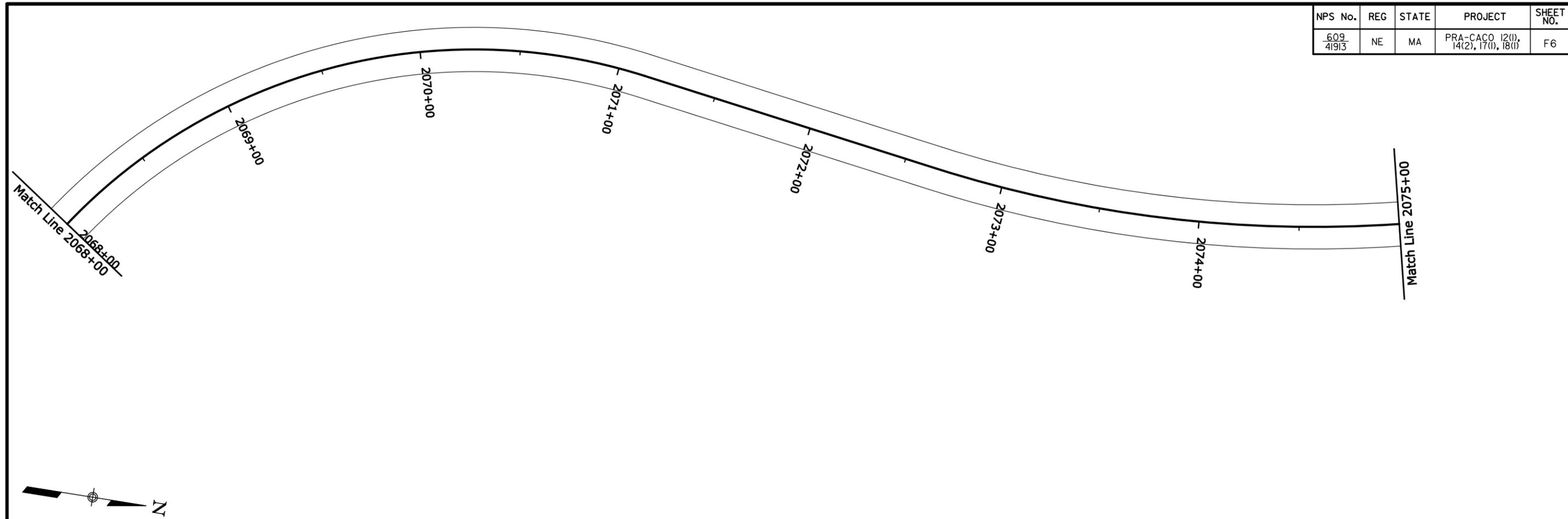
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 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

RACE POINT ROAD
 2055+00 to 2068+00

SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	F6



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EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

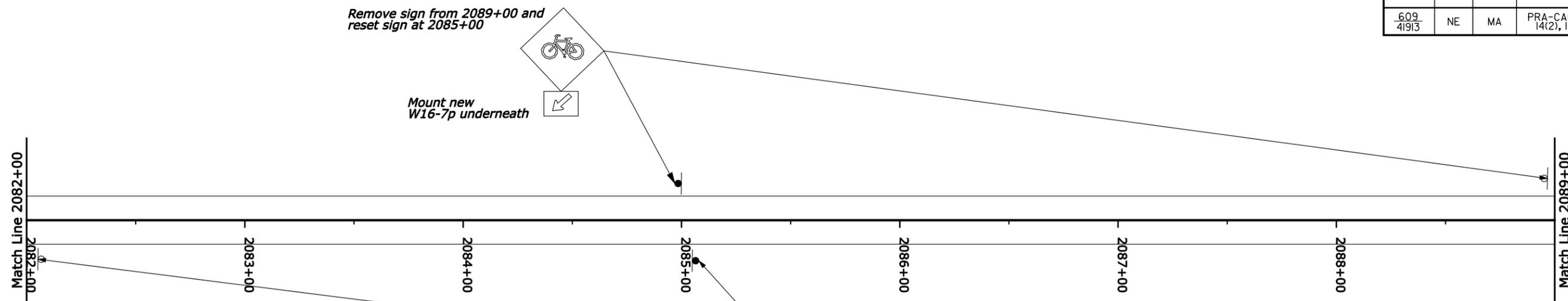
CAPE COD NATIONAL SEASHORE

RACE POINT ROAD

2068+00 to 2082+00



NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	F7

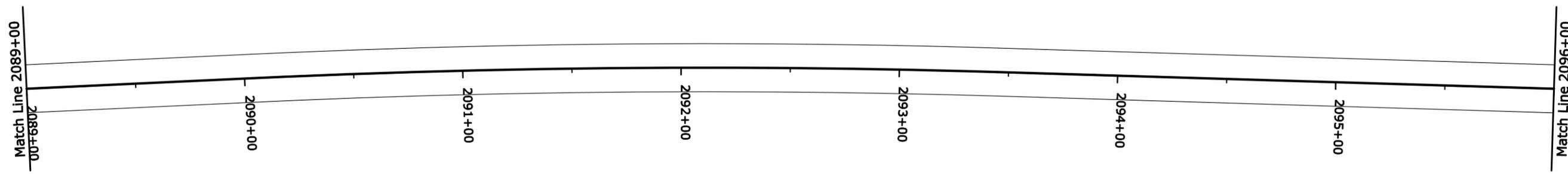


Remove sign from 2089+00 and
reset sign at 2085+00

Mount new
W16-7p underneath

Remove sign from 2082+00 and
reset sign at 2085+00

Mount new
W16-7p underneath

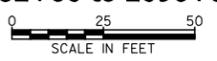


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EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

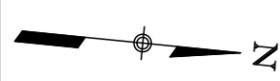
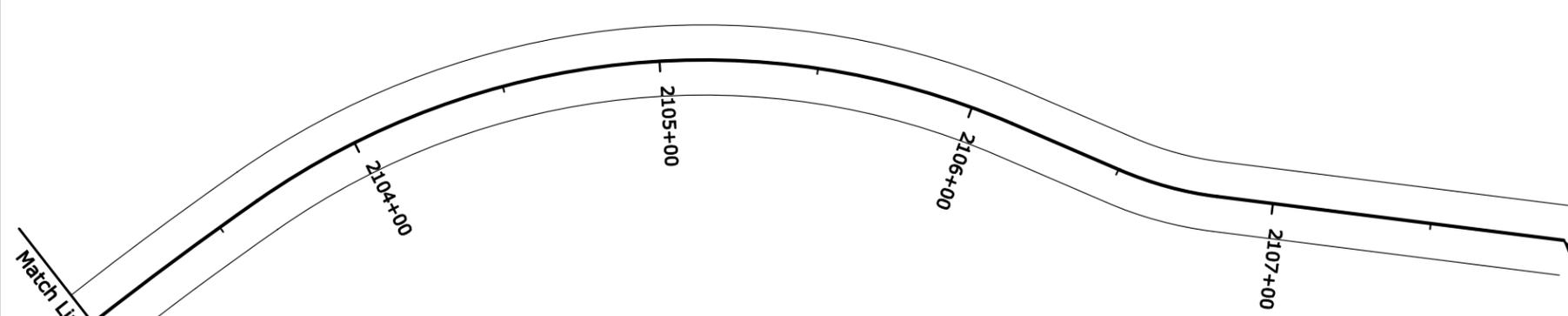
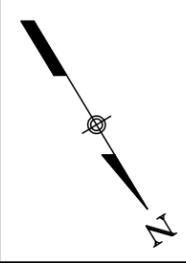
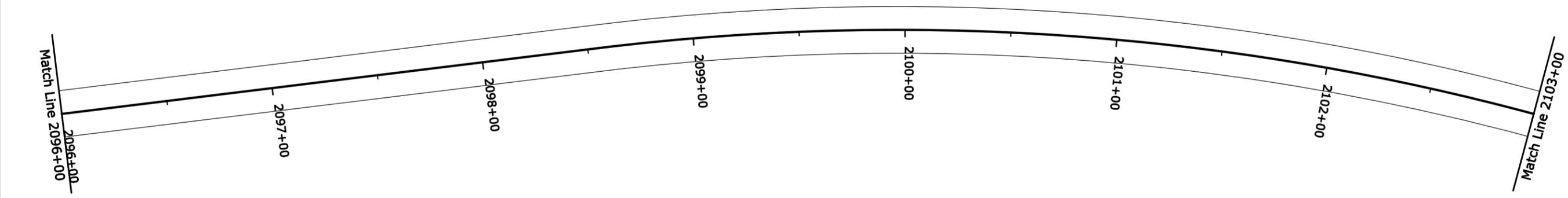
RACE POINT ROAD

2082+00 to 2096+00



\$\$\$\$DATE\$\$\$\$ \$TIMES \$\$\$\$\$DGN\$\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	F8



LIMIT OF WORK
 2107+92 Race Point Road
 End slurry seal, type 2

U.S. DEPARTMENT OF TRANSPORTATION
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 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

RACE POINT ROAD
 2096+00 to 2108+00



\$\$\$\$DATE\$\$\$\$ \$TIMES\$\$\$\$DGN\$\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	MI

EROSION CONTROL NARRATIVE

DESCRIPTION OF PROJECT

Project PRA-CACO 12(1), 14(2), 17(1), 18(1) consists of pavement preservation and road improvements in several locations within Cape Cod National Seashore.

The project includes:

- Slurry sealing, crack sealing, and spot reconstruction on Marconi Beach Road (NPS Route 12) and Marconi Site Road (NPS Route 13). Receiving waters are Fresh Brook and Wellfleet Harbor.
- Slurry sealing Race Point Road (NPS Route 14). Receiving waters are Hatches Harbor and Black Water Pond.
- Intersection reconfiguration and reconstruction of US Route 6 (NPS Route 18), Moors Road (NPS Route 17), and Province Lands Road (NPS Route 15). Receiving waters are Clapps Pond, Shank Painter Pond, and Cape Cod Bay.
- Constructing a new exit to the Herring Cove Beach Parking Area. The receiving body of water is Cape Cod Bay.
- Reconstruction of Old Dewline Road (NPS Route 20). The receiving body of water is the Atlantic Ocean.

GENERAL GUIDELINES

Install all erosion and sediment control devices as shown in the plans or as directed by the Contracting Officer (CO). Do not modify the type, size or location of any control or practice without approval from the CO.

Inspect all erosion and sediment control devices every seven calendar days and within 24 hours after any storm event of more than 3/8 of an inch in precipitation in a 24 hour period. Repair as needed or as directed by the CO. Clean all sediment control devices (silt fence, inlet protectors, etc.) when they become half full of sediment or as directed by the CO. Dispose of the sediment by spreading it on site or disposing of it legally outside seashore boundaries.

Preventing initial soil erosion is much more effective than trying to control eroded sediment. Therefore, stabilize all disturbed areas as soon as practical, but not more than 14 days after construction activity has temporarily or permanently ceased. Stabilization may be in the form of rolled erosion control products. Construct temporary erosion controls in incremental stages as construction proceeds.

Attempt to control only the sediment-laden runoff generated by the project site. Separate and route clean, offsite runoff through the project using earth diversion berms, diversion channels and culverts.

Do not drive construction equipment across flowing waterways.

Do not allow construction vehicles to track sediment outside the project limits.

In general, preserve existing vegetation, trees, and shrubs. Install special vegetation protection measures as directed by the CO.

TEMPORARY EROSION AND SEDIMENT CONTROL

PHASE I (ESTABLISH PERIMETER CONTROLS)

During mobilization, construct perimeter controls to ensure that sediment does not leave the project site. Use silt fence as a perimeter control as indicated in the plans.

PHASE II (INTERMEDIATE CONTROLS)

Obtain the CO's approval before installing any controls not specified in the plans. The CO may direct the Contractor to install certain controls in order to forestall or mitigate potential or existing erosion problems.

Provide silt fence at the toe of all embankment slopes and around all stockpiled excavated roadway material. Apply mulch and turf establishment to stockpiles remaining in place longer than 14 calendar days or when directed by the CO.

PERMANENT EROSION AND SEDIMENT CONTROL

PHASE III (FINAL CONTROLS/STABILIZATION)

Apply rolled erosion control product to disturbed areas where natural vegetation has not reestablished itself.

Remove all fill slope perimeter silt fence only after all construction activities have been completed and the embankment slopes and toe of fill have been stabilized.

SPECIAL PROJECT CONSIDERATIONS

Supplement the plans as required or as directed by the CO to ensure that project runoff does not enter the vegetation adjacent to the site (supplements may include silt fence, diversion berms, or channels etc). At no time is construction allowed to go outside the limits of disturbance. Remove mud and debris from equipment before leaving the site.

The limit of disturbance on Marconi Beach Road, Marconi Site Road, and Old Dewline Road is the edge of the existing pavement. Do not remove more pavement than can be stabilized by the end of the work day.

The silt fence shown on the plans are for both erosion control and for wildlife protection. See section 108 for wildlife protection requirements.

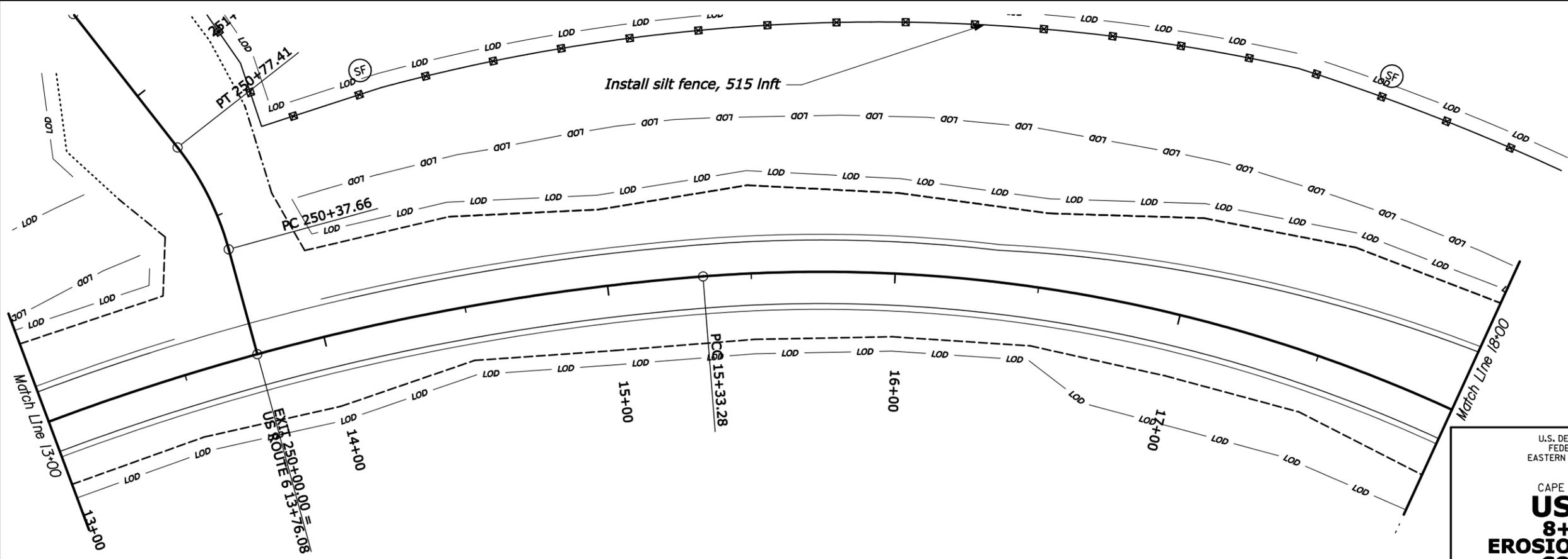
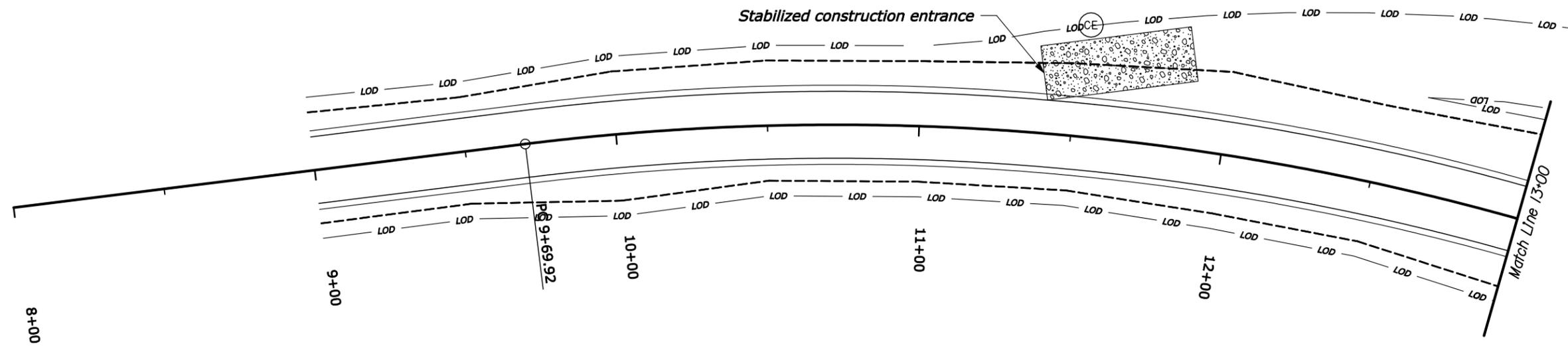
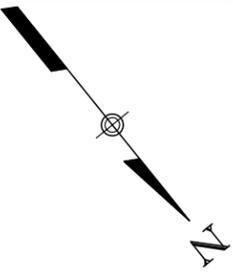
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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

EROSION CONTROL NARRATIVE

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	M2



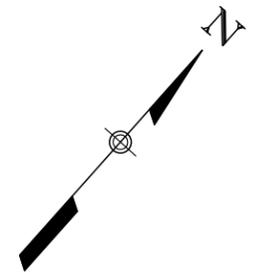
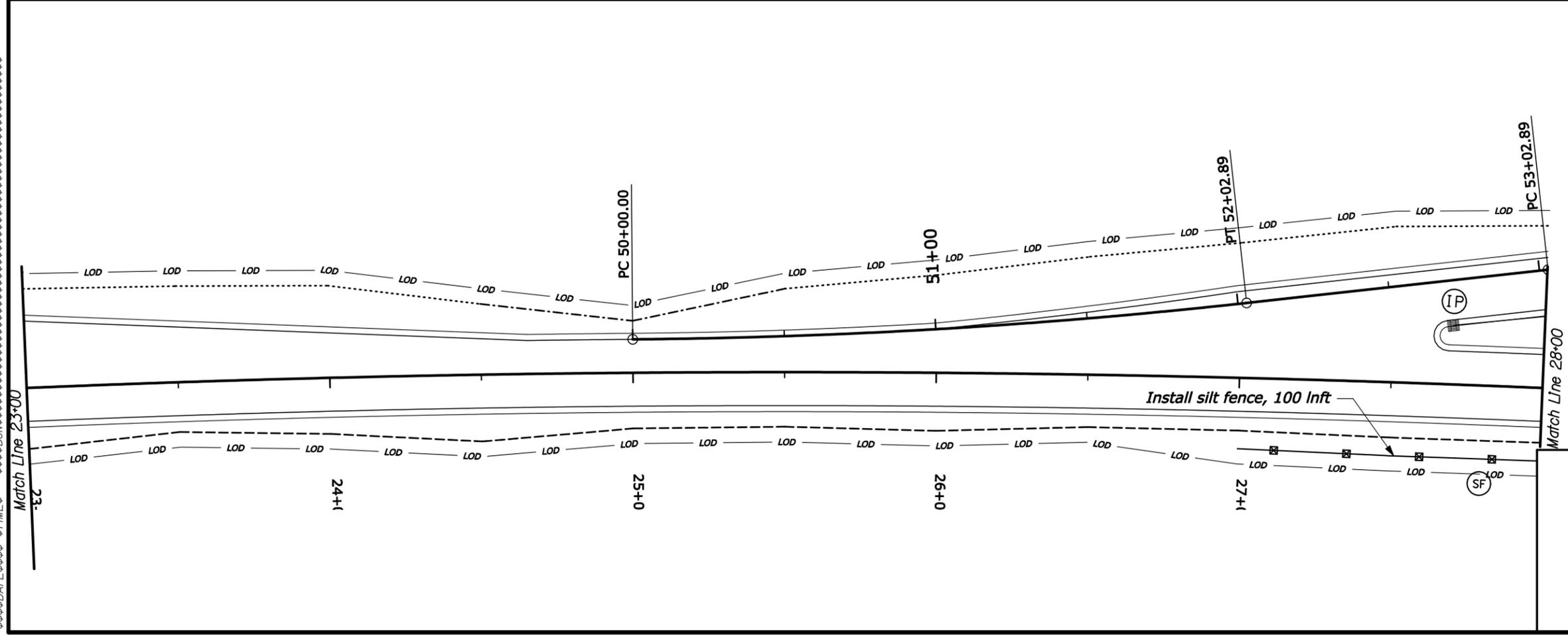
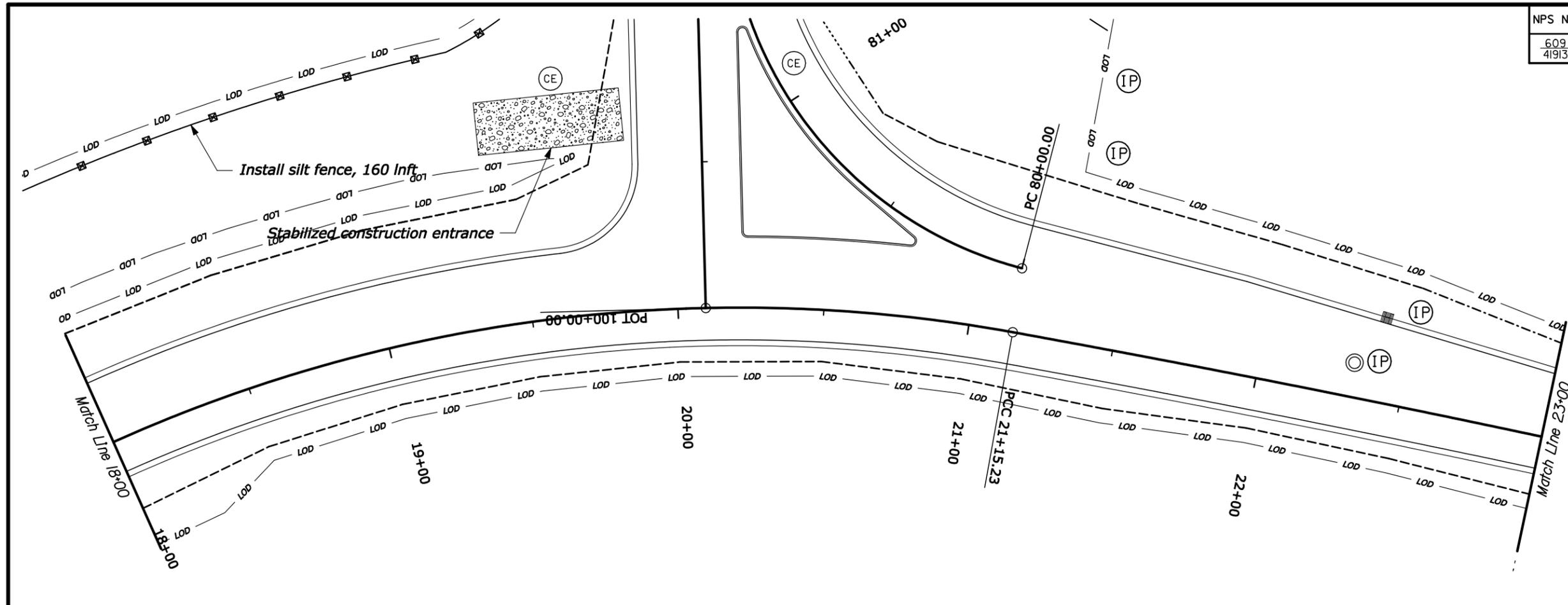
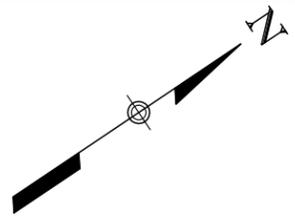
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 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE
US ROUTE 6
8+00 to 13+00
EROSION AND SEDIMENT
CONTROL PLAN

0 20 40
 SCALE IN FEET

\$\$\$\$DATE\$\$\$\$TIMES\$\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	M3

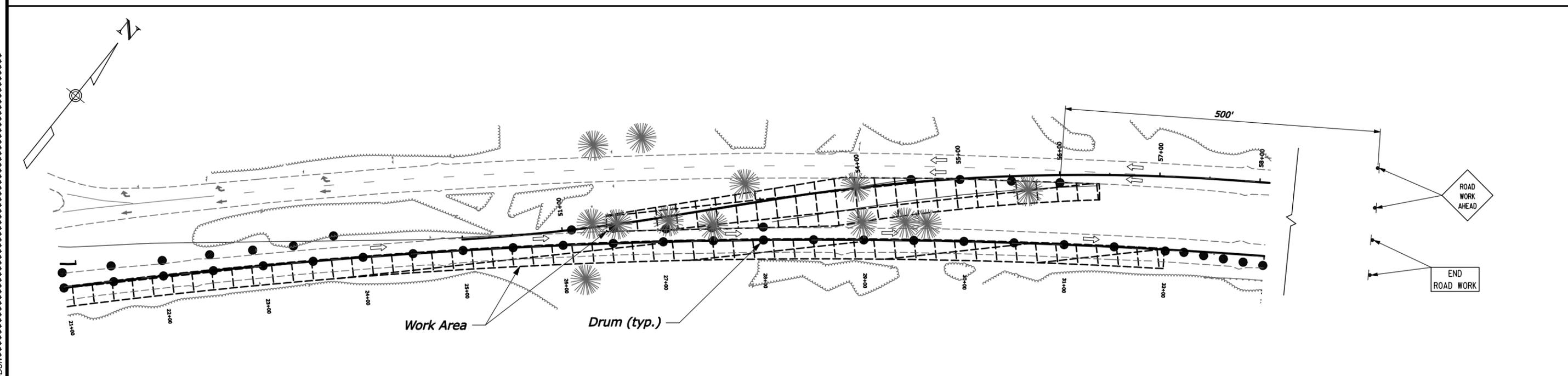
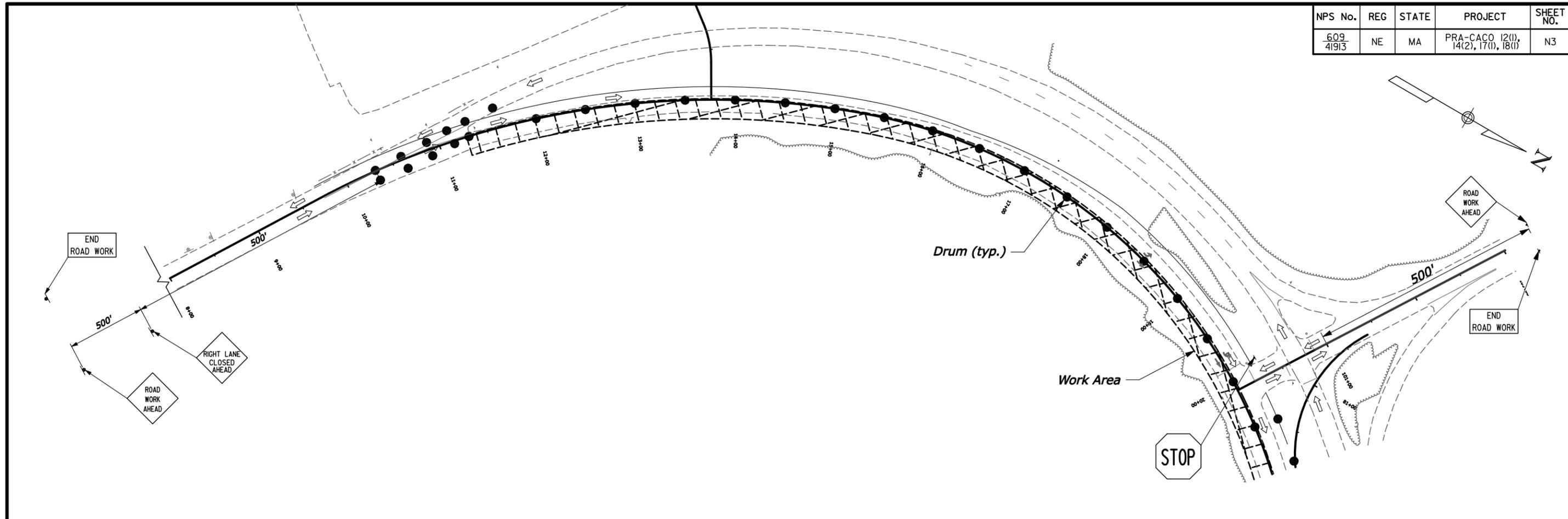


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 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE
US ROUTE 6
13+00 to 28+00
EROSION AND SEDIMENT
CONTROL PLAN

0 20 40
 SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	N3



\$\$\$\$\$DATE\$\$\$\$\$ \$TIMES\$\$\$\$\$DGN\$\$\$\$\$

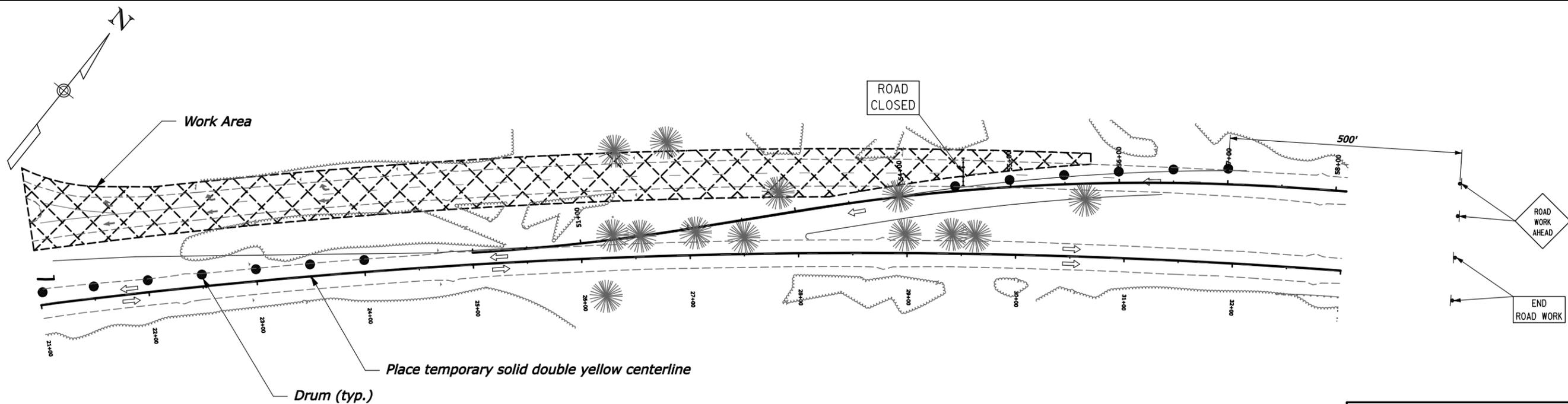
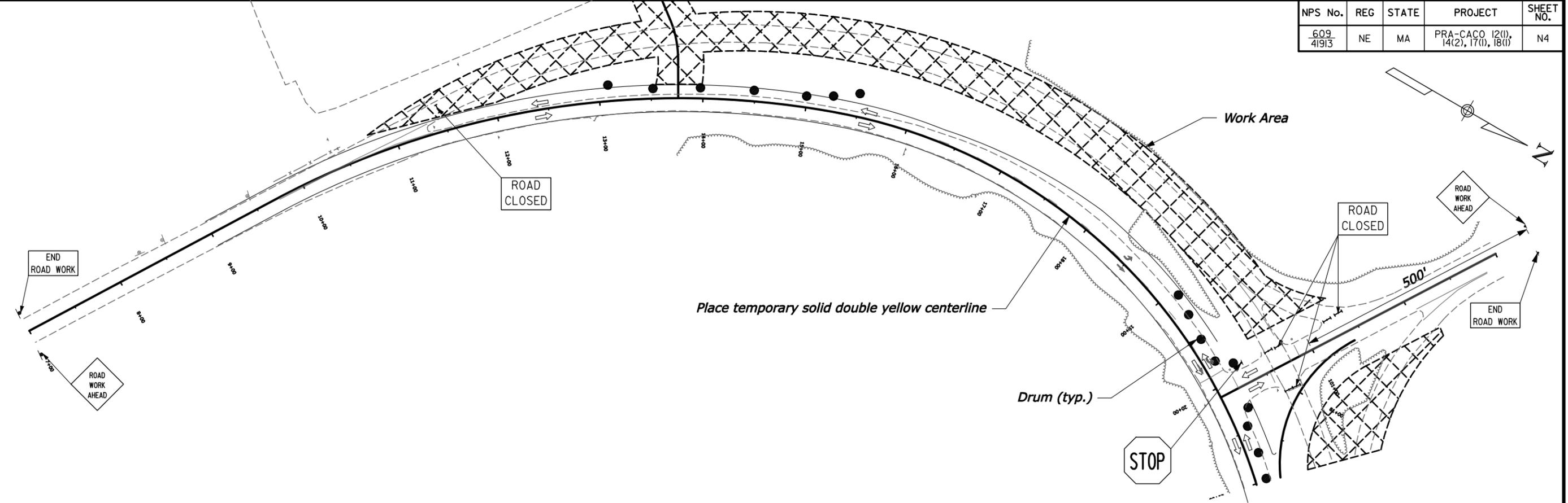
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 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

**TEMPORARY TRAFFIC
 CONTROL PLAN**

**INTERSECTION RECONFIGURATION
 PHASE II**

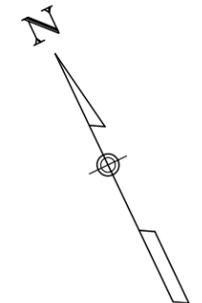
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609 41913	NE	MA	PRA-CACO 12(i), 14(2), 17(i), 18(i)	N4



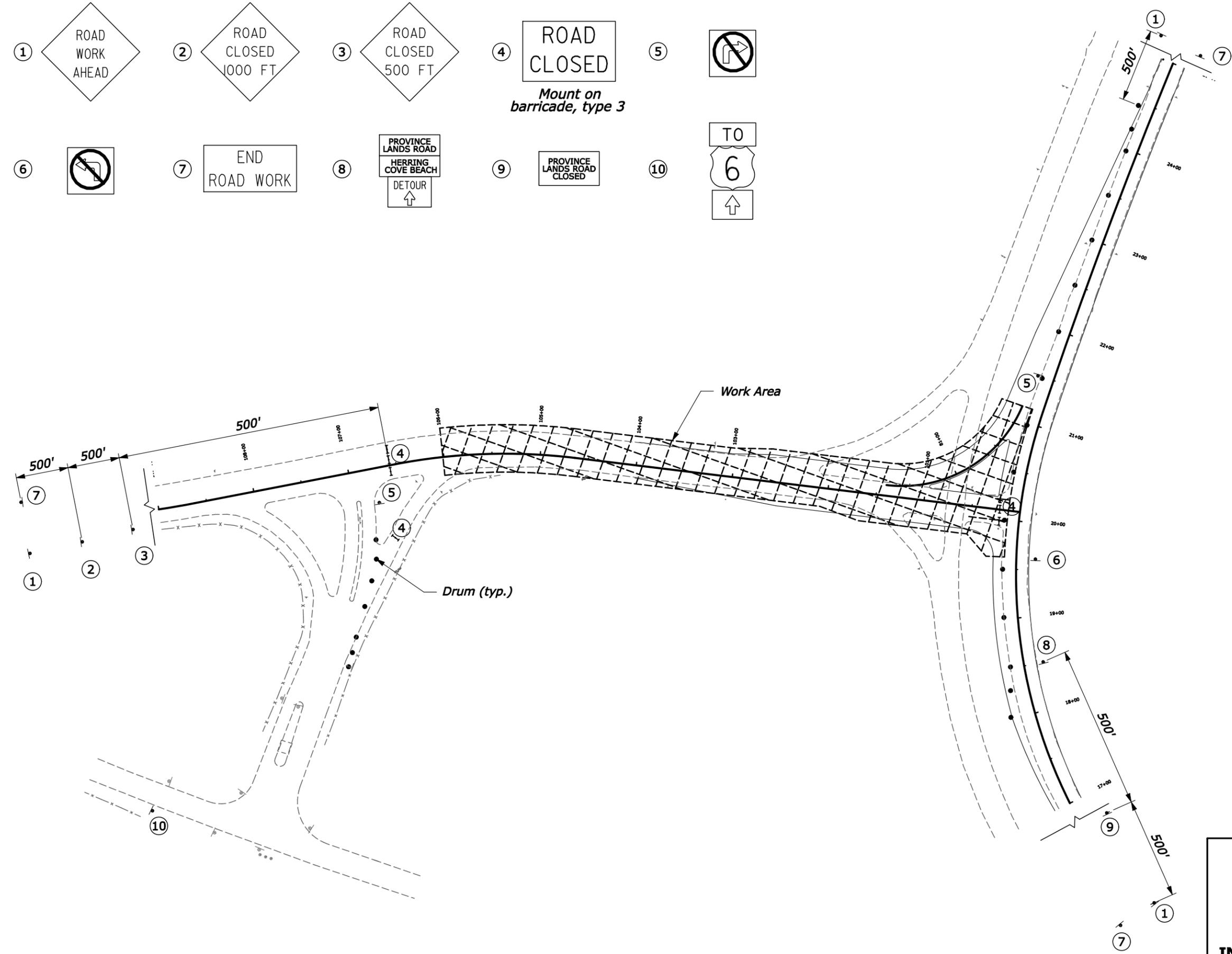
Note:
1) Place all W1-8, W4-2, W6-1, W6-2, and W9-1 signs as show on the Signing and Striping Plan before opening this phase to traffic.

\$\$\$\$DATE\$\$\$\$ \$TIMES \$\$\$\$\$DGN\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	N5



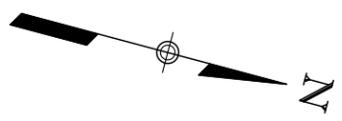
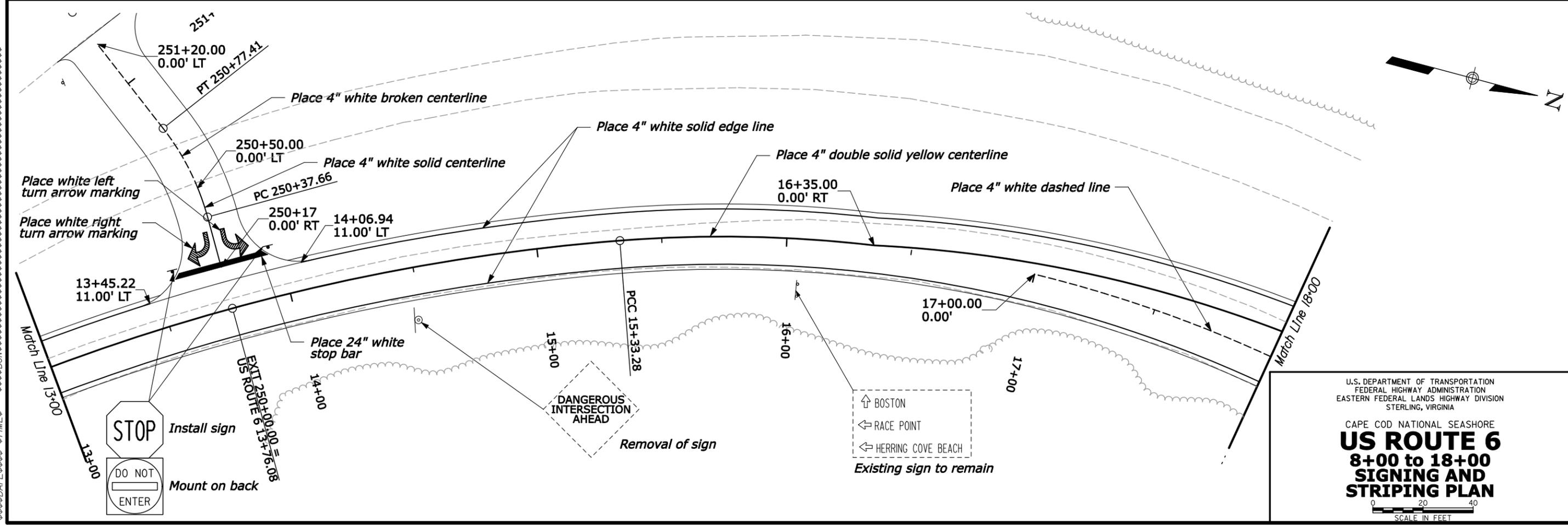
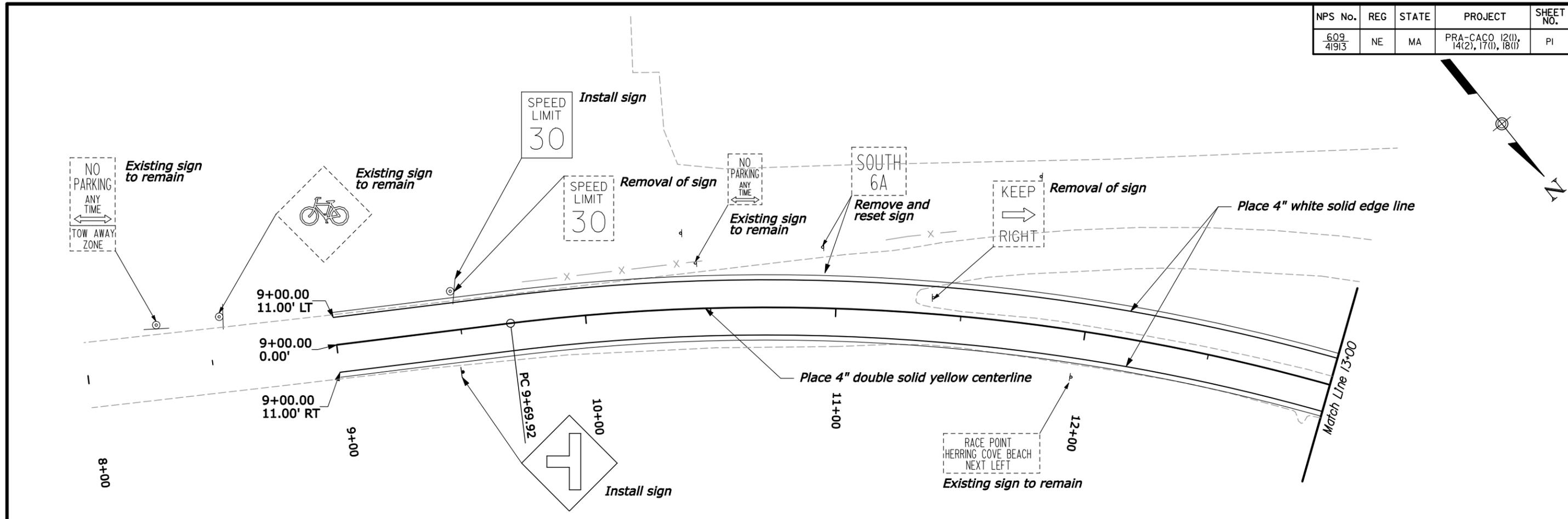
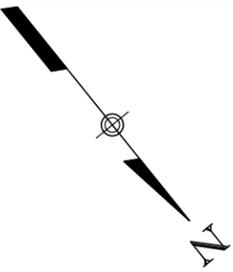
- 1
- 2
- 3
- 4 Mount on barricade, type 3
- 5
- 6
- 7
- 8 PROVINCE LANDS ROAD
HERRING COVE BEACH
DETOUR ↑
- 9 PROVINCE LANDS ROAD
CLOSED
- 10 TO
6
↑



DATE\$\$\$\$\$ TIME\$\$\$\$\$ DGN\$\$\$\$\$

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA
 CAPE COD NATIONAL SEASHORE
TEMPORARY TRAFFIC CONTROL PLAN
INTERSECTION RECONFIGURATION
PHASE IV (SHEET 1 OF 2)

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	PI



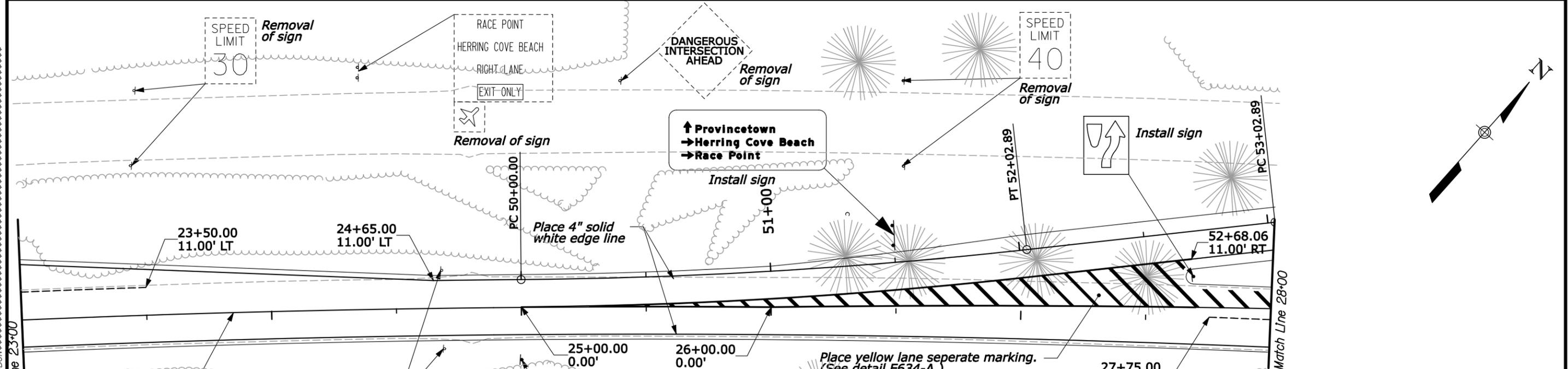
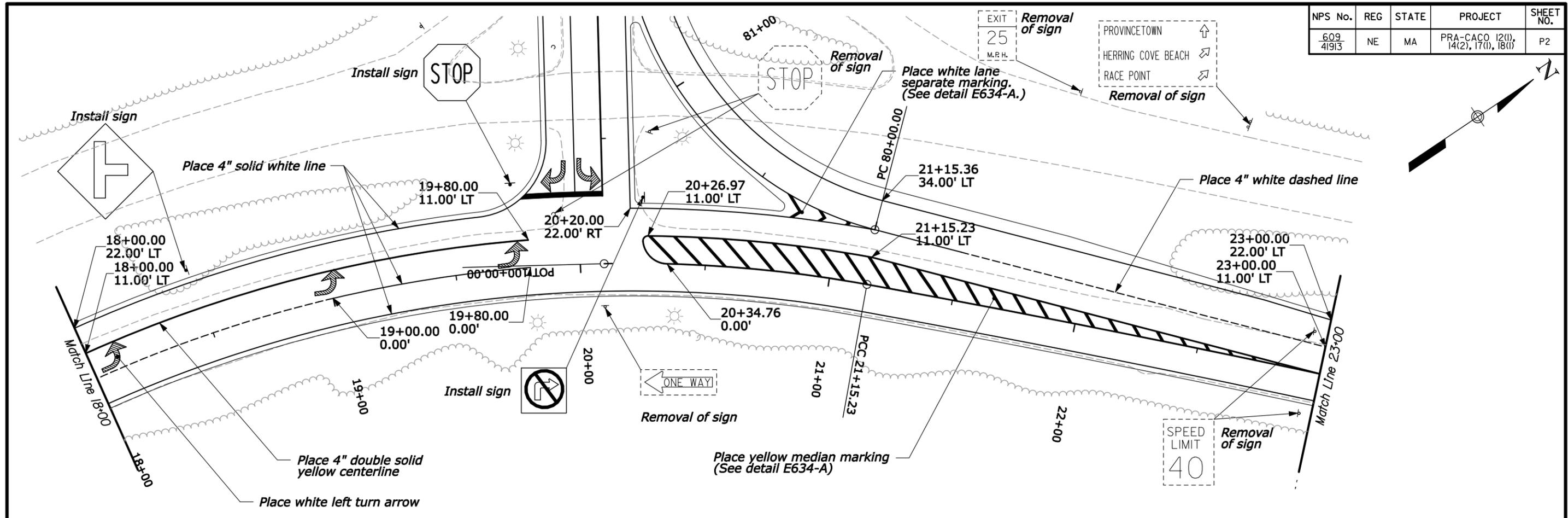
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 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE
US ROUTE 6
8+00 to 18+00
SIGNING AND
STRIPING PLAN

0 20 40
 SCALE IN FEET

\$\$\$\$DATE\$\$\$\$ \$TIMES\$\$\$\$DGN\$\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	P2



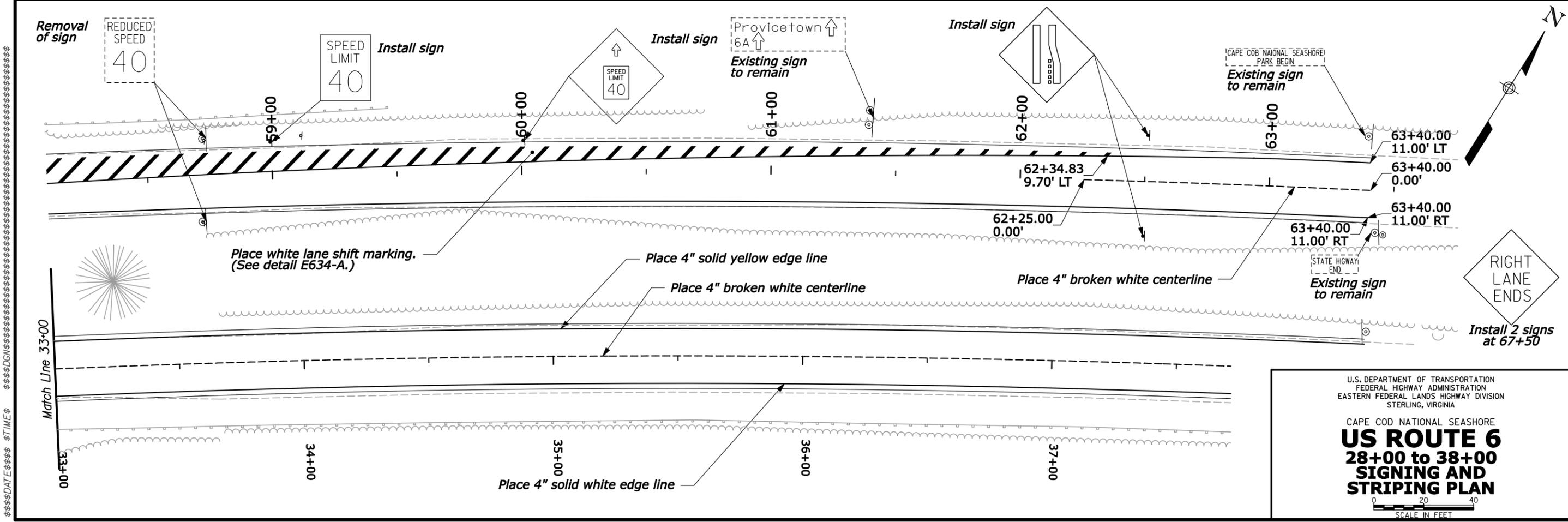
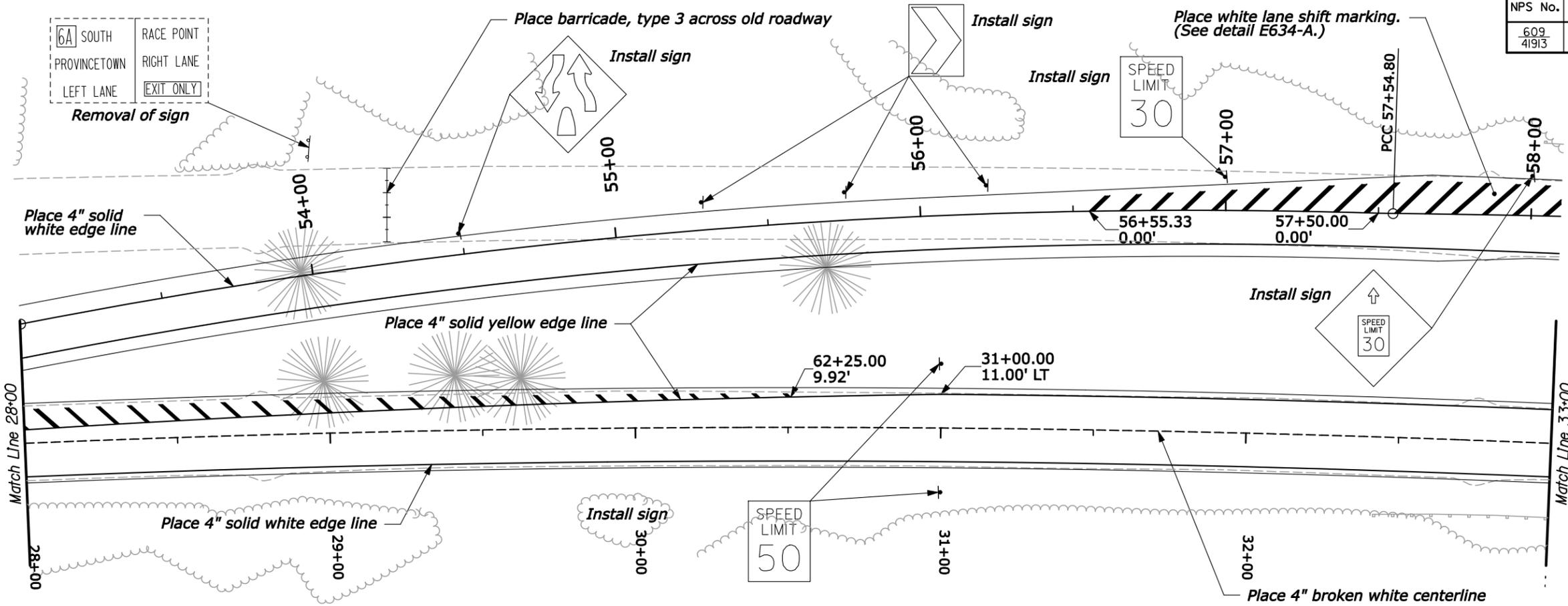
U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE
US ROUTE 6
18+00 to 28+00
SIGNING AND
STRIPING PLAN

0 20 40
 SCALE IN FEET

\$\$\$\$DATE\$\$\$\$ \$TIMES\$\$\$\$ \$DGN\$\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	P3

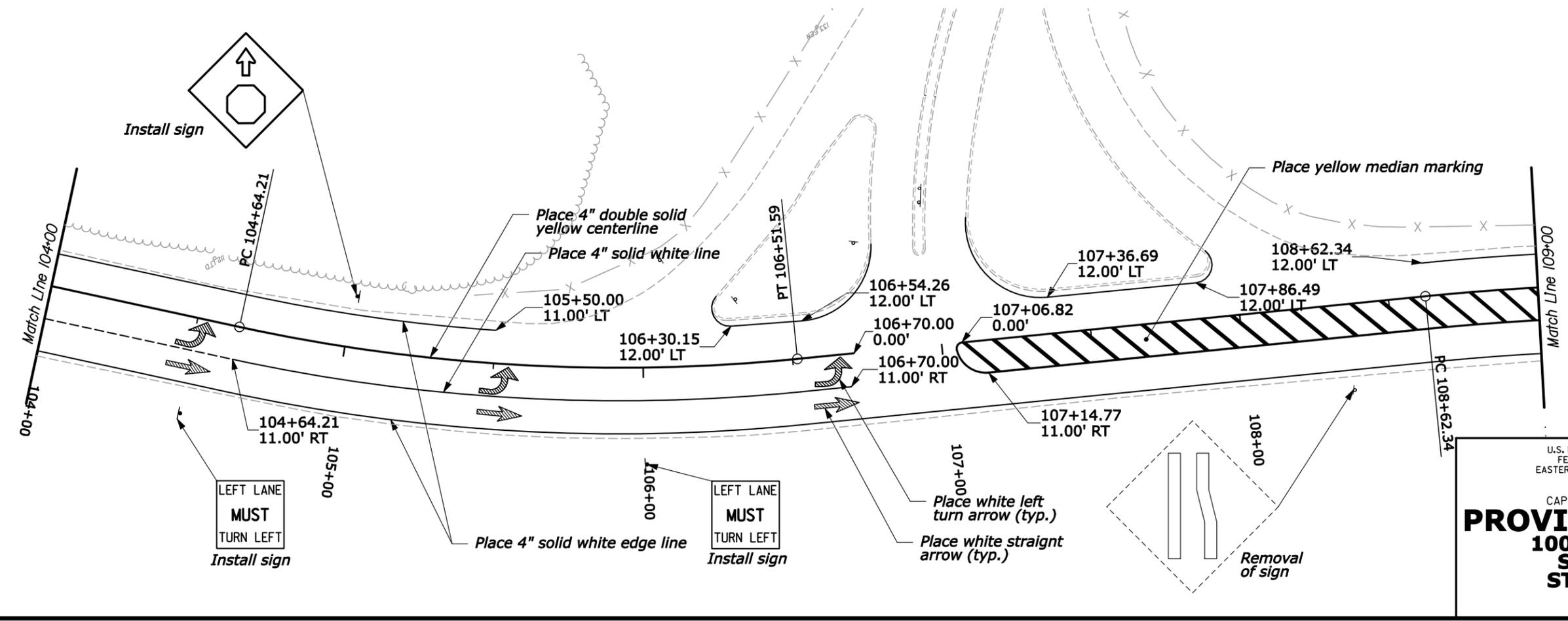
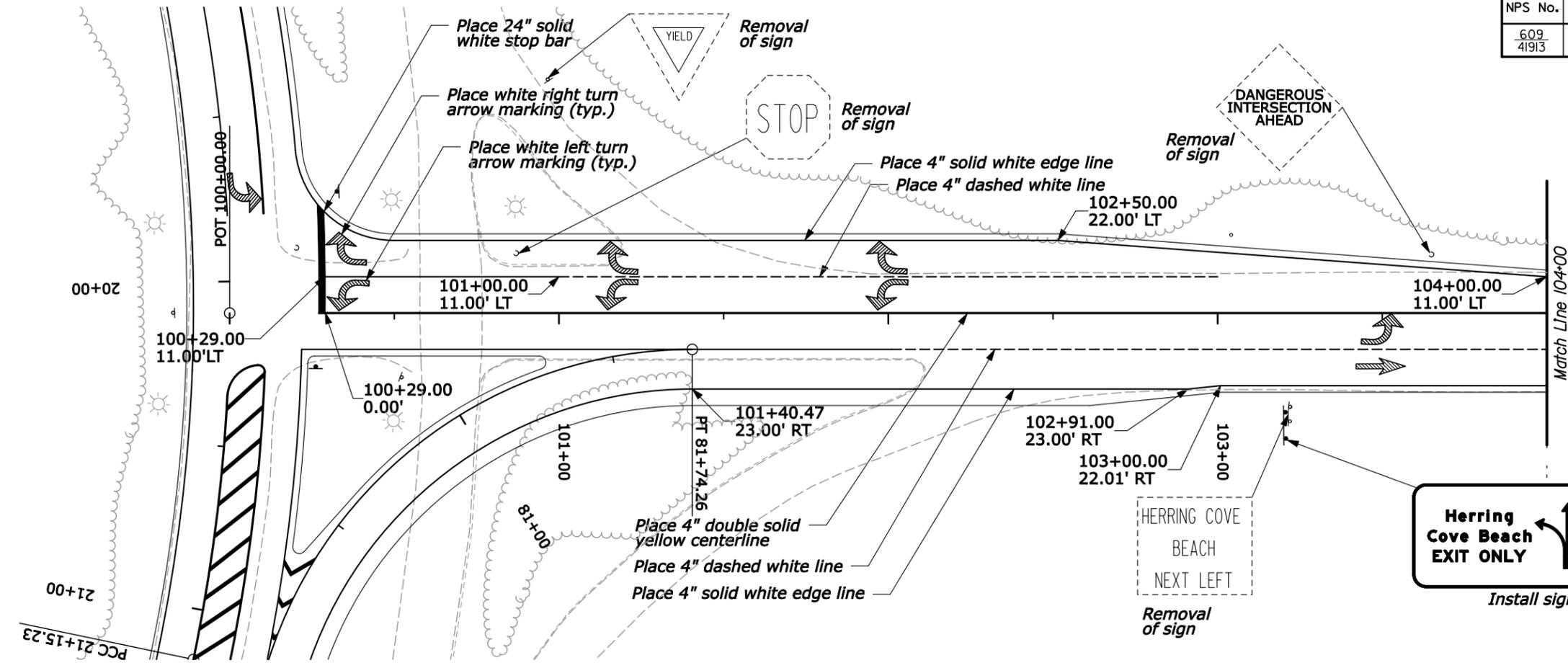


U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE
US ROUTE 6
28+00 to 38+00
SIGNING AND
STRIPING PLAN

0 20 40
SCALE IN FEET

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	P4



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

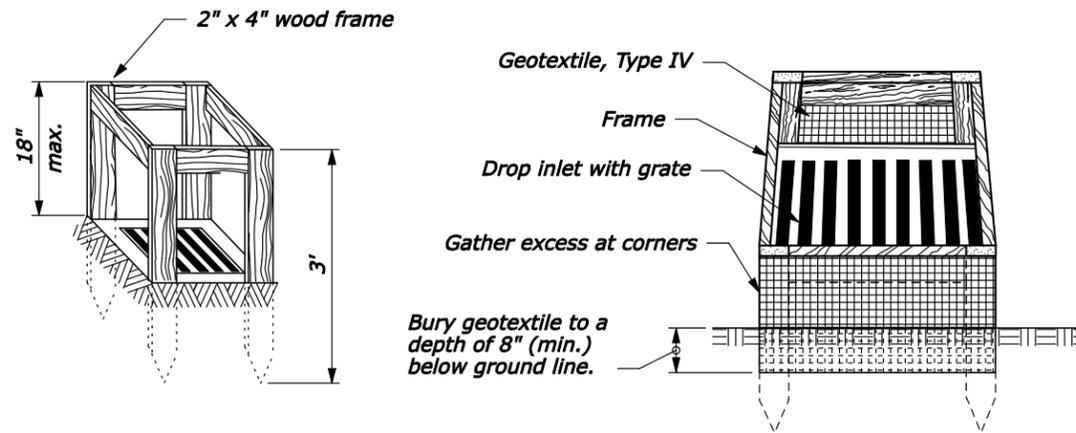
CAPE COD NATIONAL SEASHORE

PROVINCE LANDS RD
100+00 to 109+00
SIGNING AND
STRIPING PLAN

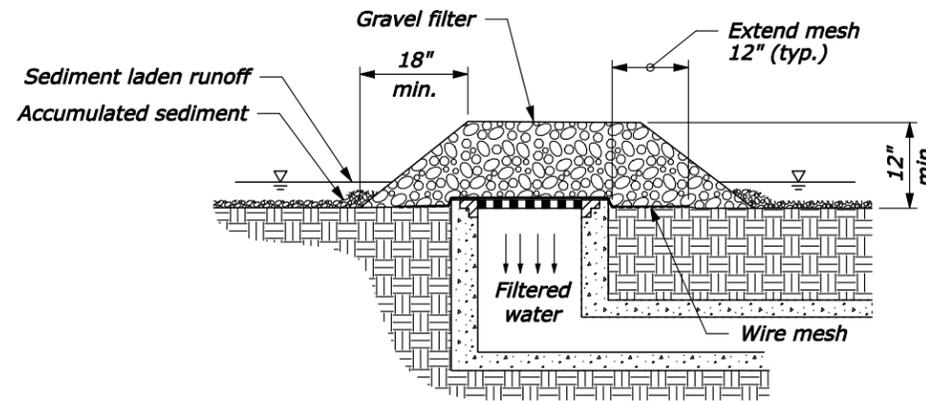
0 20 40
 SCALE IN FEET

5/27/2008 I:\06620 AM MA:Proj\ecris\caco\18(1)\pro_j_der\NCADD\P_caco18(1)_sspdgn

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S2



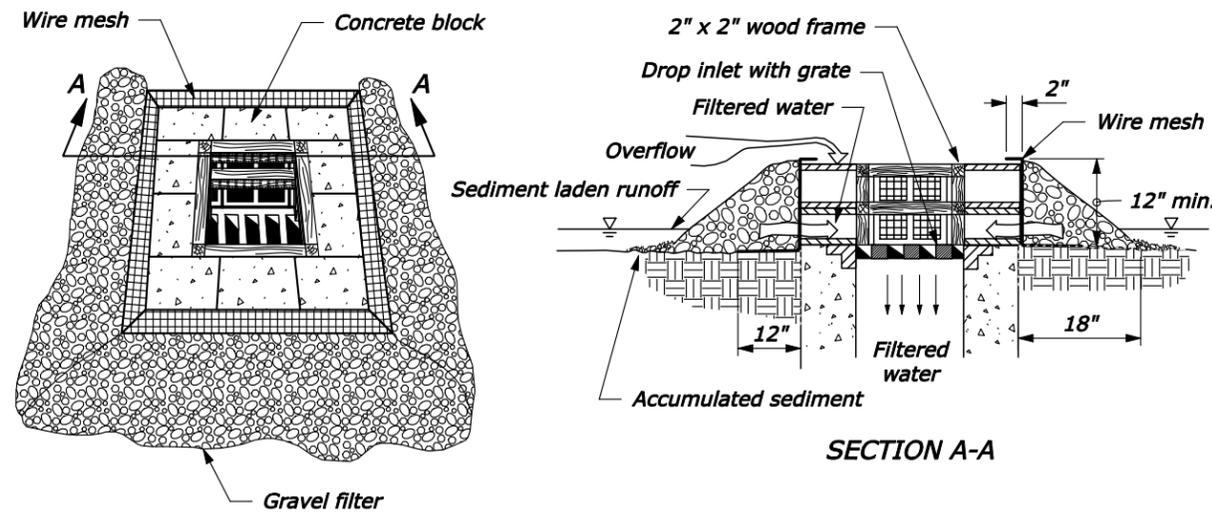
SILT FENCE DROP INLET PROTECTION (TYPE A)



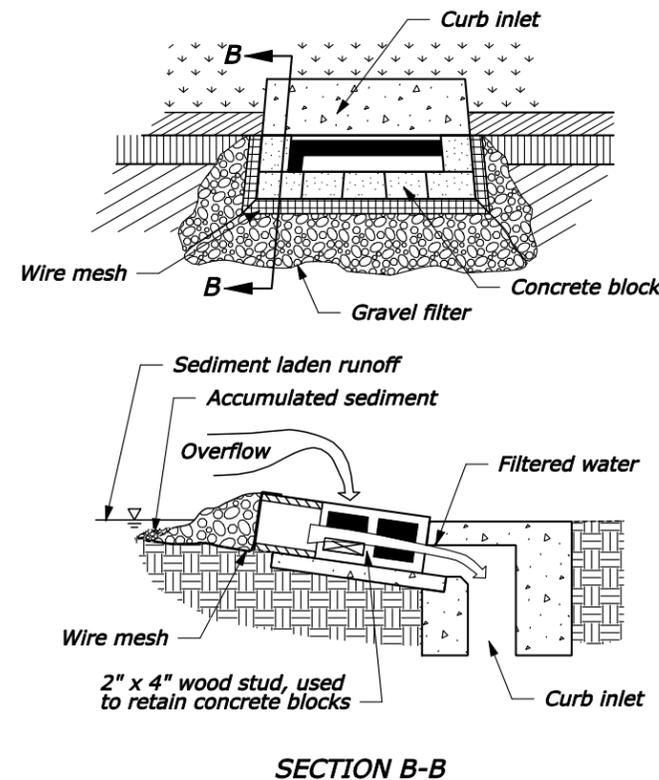
**GRAVEL AND WIRE MESH
DROP INLET PROTECTION (TYPE B)**

NOTE:

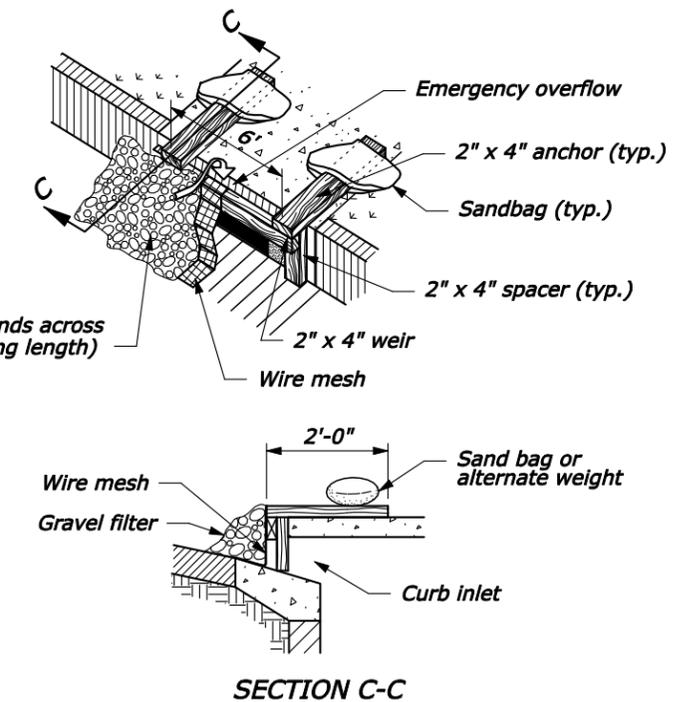
1. For gravel filters use 2" - 3" diameter coarse aggregate.
2. Use wire mesh with 1/2" x 1/2" openings.
3. Use Type A inlet protection in sump locations only.
4. Use Type B inlet protection only in sump locations where heavy concentrated flows are not expected. Do not use where ponding around the structure might cause inconvenience or damage.



BLOCK AND GRAVEL DROP INLET PROTECTION (TYPE C)



**CURB INLET PROTECTION,
BLOCK AND GRAVEL (TYPE D)**



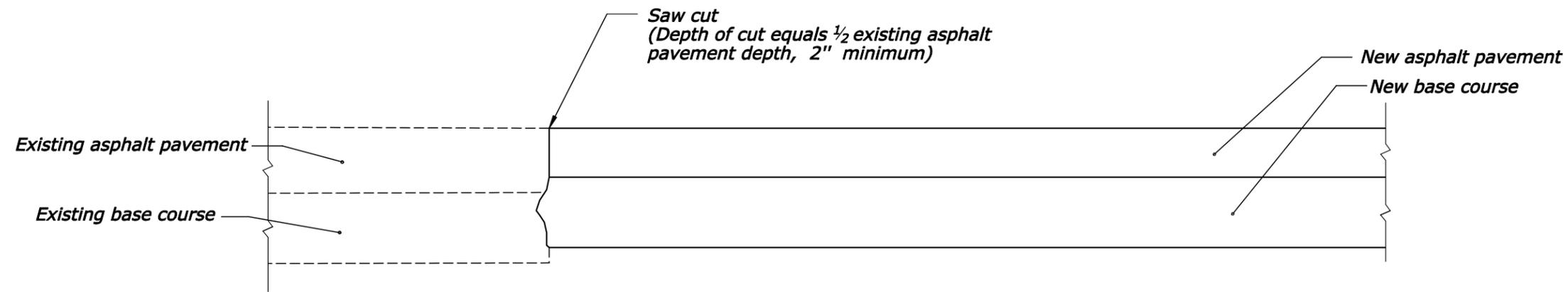
**CURB INLET PROTECTION,
WOODEN WEIR (TYPE E)**

\$\$\$\$DATE\$\$\$\$ \$TIMES \$\$\$\$\$DGN\$\$\$\$\$

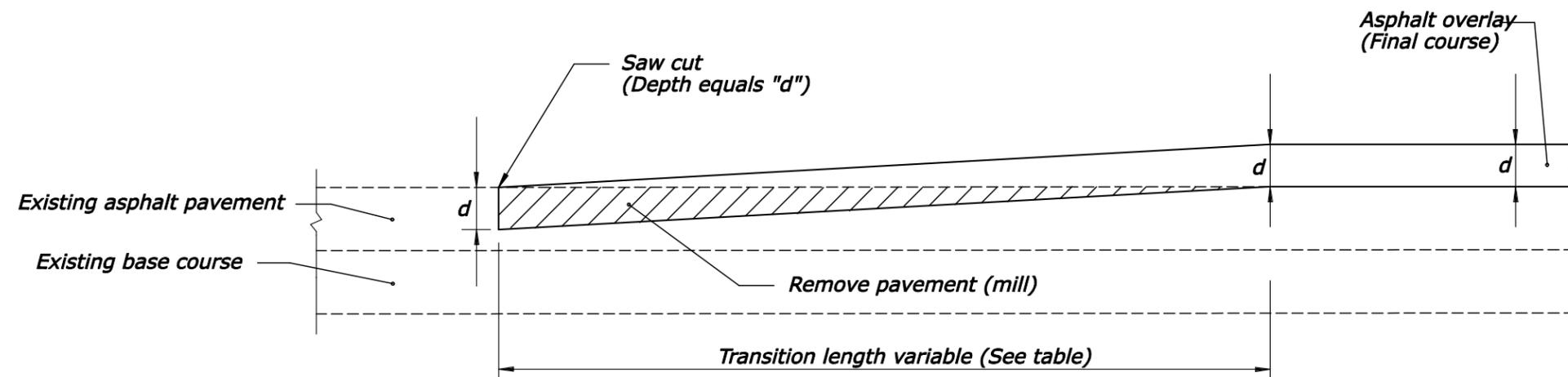
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
U.S. CUSTOMARY STANDARD	
TEMPORARY INLET PROTECTION	
STANDARD APPROVED FOR USE 6/2005 REVISED: 6/2007	STANDARD 157-2

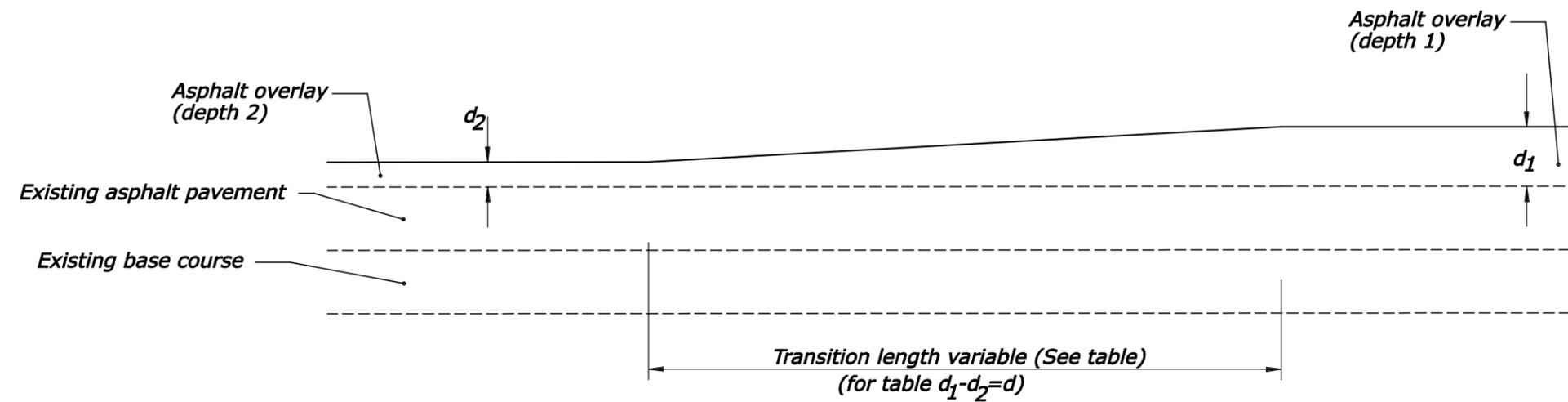
NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S4



NEW PAVEMENT



OVERLAY



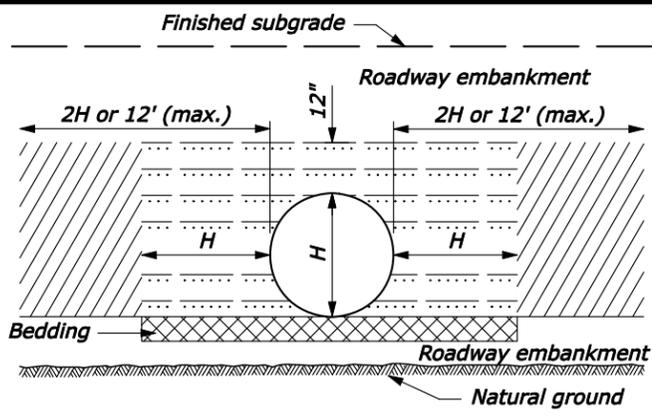
OVERLAY - DEPTH TRANSITIONS

<i>d</i> - Inches	Transition Length - Feet
1	20
1.5	30
2	40
2.5	50
3	60

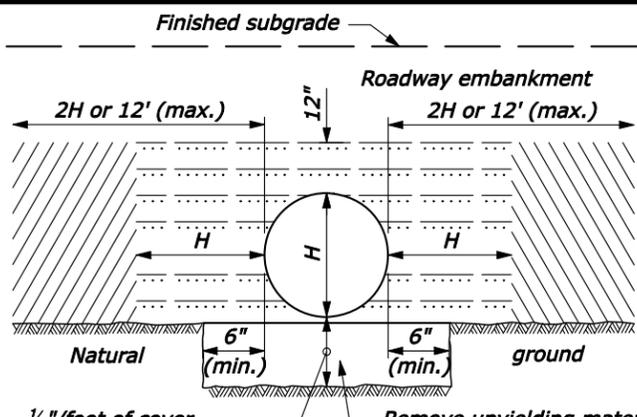
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
PAVEMENT TRANSITIONS	
DETAIL APPROVED FOR USE	DETAIL
REVISED: 07/07	E401-01

NO SCALE

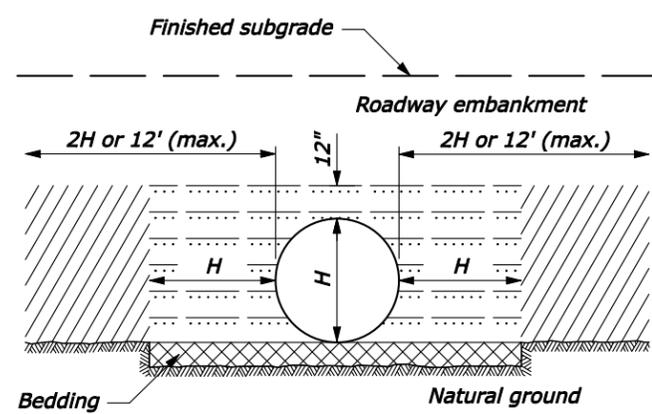
\$\$\$DATE\$\$\$ \$TIMES\$ \$\$\$DGN\$\$\$



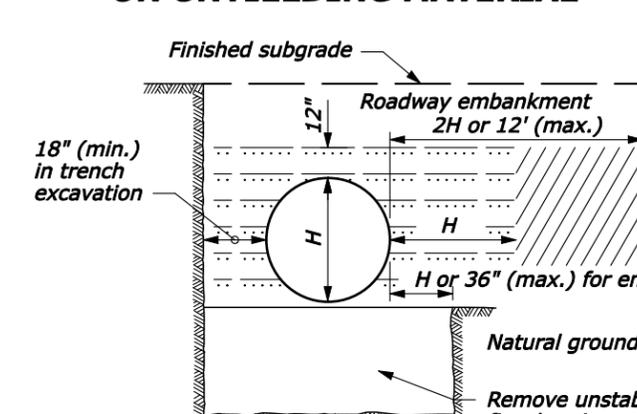
ABOVE NATURAL GROUND



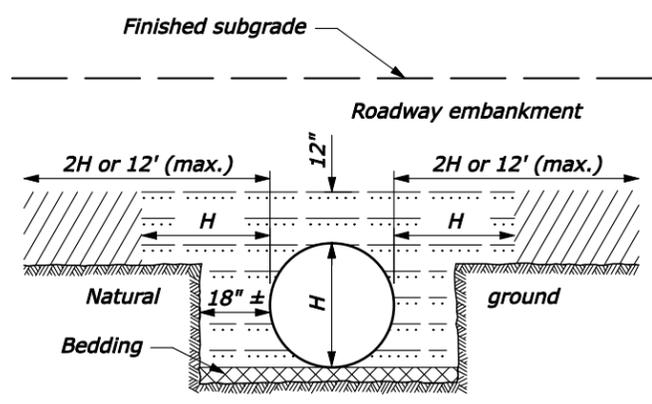
ON UNYIELDING MATERIAL



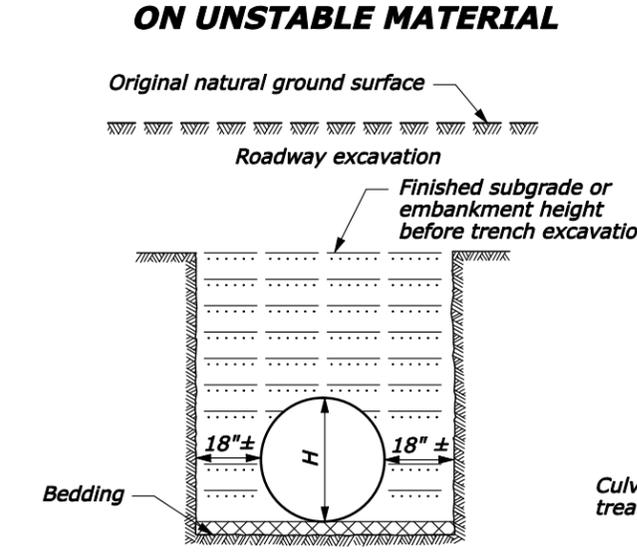
ON NATURAL GROUND



ON UNSTABLE MATERIAL

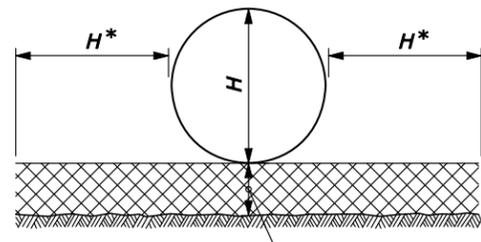


ABOVE AND BELOW NATURAL GROUND



BELOW NATURAL GROUND OR TRENCH EXCAVATION IN EMBANKMENT

PIPE SIZE (H)	DEPTH
12" to 54"	4"
> 54"	6"



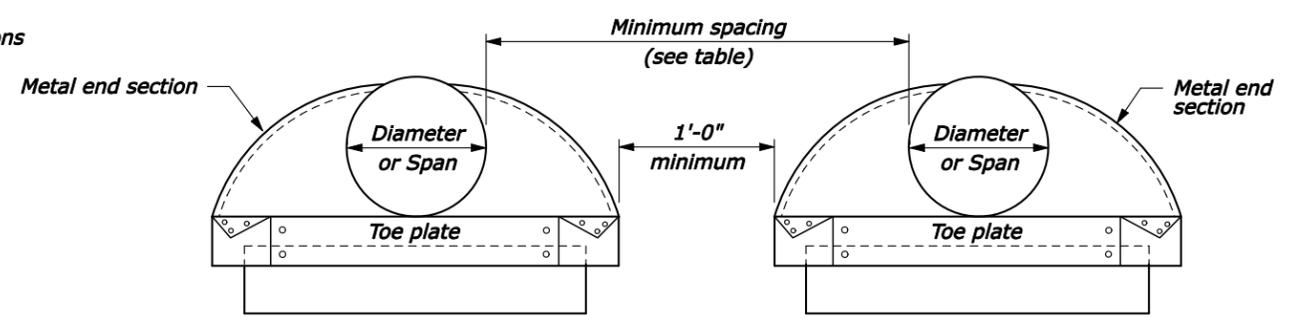
* Reduce to 18" for trench excavations See bedding depth table

PIPE BEDDING

NOTE:

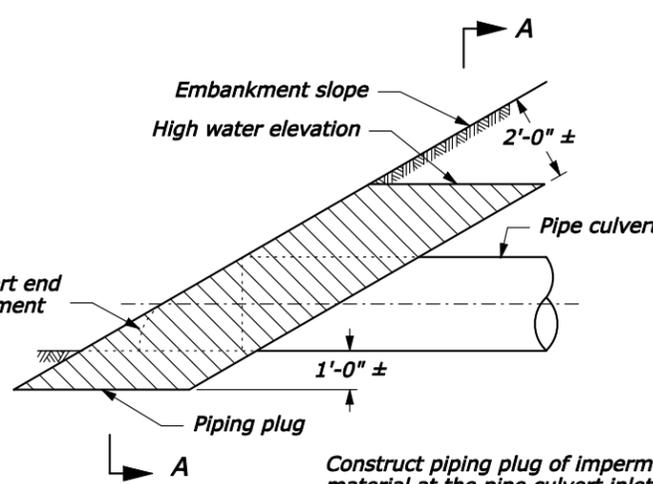
- When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
- H equals the diameter of all round pipe culverts or the rise dimension of all pipe arch culverts.

DIAMETER or SPAN	SPACING
UP to 48"	24"
48" and UP	Half diameter or span OR 36" whichever is less



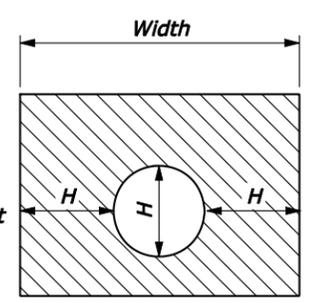
ELEVATION

MULTIPLE PIPE INSTALLATION



Construct piping plug of impermeable backfill material at the pipe culvert inlet where granular material is used for backfill. Width may be adjusted to tie into impervious material.

PIPING PLUG



SECTION A-A

NO SCALE

- Bedding material (uncompacted)
- Embankment material placed in layers not exceeding 6" compacted depth.
- Compacted backfill material placed in layers not exceeding 6" compacted depth meeting the following:
 Metal Pipe: Maximum particle size = 3"
 Soil classification: A-1, A-2, or A-3
 Plastic Pipe: Maximum particle size: 1 1/2"
 Soil classification: A-1, A-2-4, A-2-5, or A-3
 Or lean concrete backfill in accordance with Section 614.

CONCRETE ROUND PIPE CULVERT

PIPE SIZE DIAMETER INCHES	FILL HEIGHT AND PIPE CLASS TABLE								
	EMBANKMENT				TRENCH				
	MINIMUM COVER INCHES	CLASS II	CLASS III	CLASS IV	CLASS V	CLASS II	CLASS III	CLASS IV	CLASS V
		MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE IN FEET							
12	12	10	10	15	23	18	18	26	13
18	12	10	10	25	39	13	13	31	45
24	12	10	10	15	30	15	15	22	40
30	12	9	13	15	35	13	16	20	46
36	12	9	9	20	41	10	13	26	56
48	12	12	13	26	44	15	16	30	49
60	12	15	17	28	44	15	20	32	49
72	12	13	17	30	41	15	20	35	49
84	12	13	19	30		15	23	37	
96	12	13	20			15	24		
108	14	15	20			18	26		

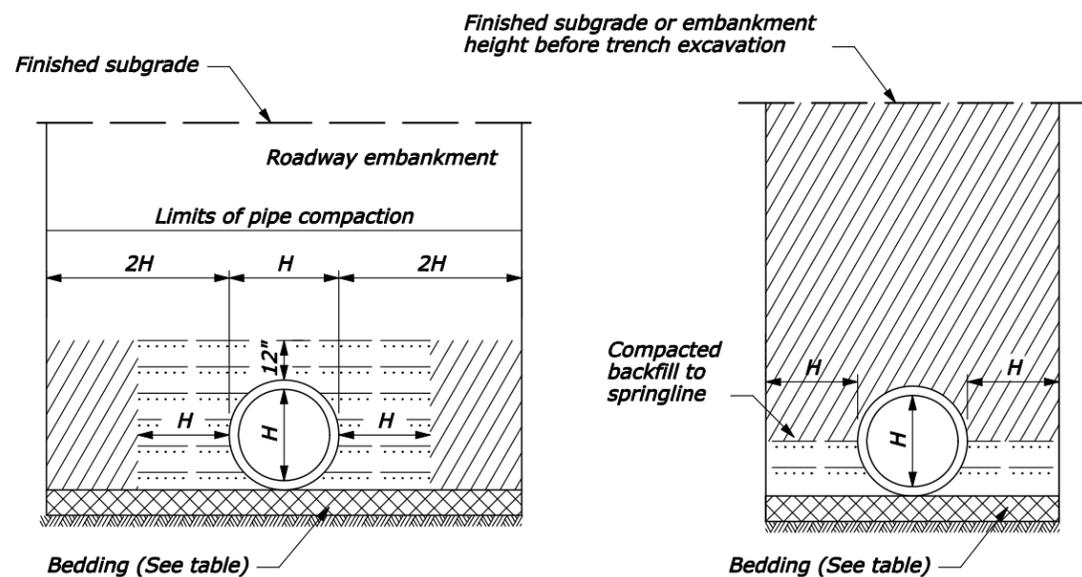
LEGEND:

-  Bedding material (uncompacted).
-  Embankment material placed in layers not exceeding 6" compacted depth.
-  Compacted backfill material placed in layers not exceeding 6" compacted depth meeting the following:
Maximum particle size = 3"
Soil classification; A-1, A-2 or A-3
Or, lean concrete backfill in accordance with Section 614.
-  Impermeable backfill material.

NOTE:

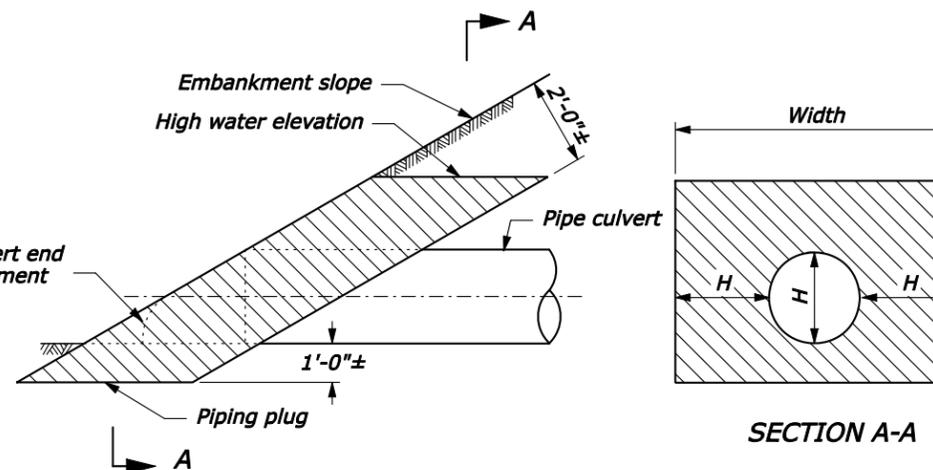
- When directed, camber pipe culverts upwards from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation of the on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
- Measure minimum cover from the top of the pipe culvert to the subgrade for flexible pavements, and to the top of the pavement for rigid pavements. Measure maximum fill height from the top of the pipe to the top of the pavement for both flexible and rigid pavements.
- Pipe compaction limits shown are for pipe installation in an embankment. For pipe installation in a trench, the compaction limits shall be the walls of the trench.
- Where unyielding or unstable material is encountered, install the pipe culvert according to the limits of pipe compaction shown on Standard 602-3.
- Maximum fill heights for pipe culvert installations may be increased on approval of site-specific structural pipe designs meeting the criteria of AASHTO Standard Specifications for Highway bridges.

BEDDING DEPTH	
PIPE SIZE (H)	DEPTH
12" TO 54"	4"
> 54"	6"



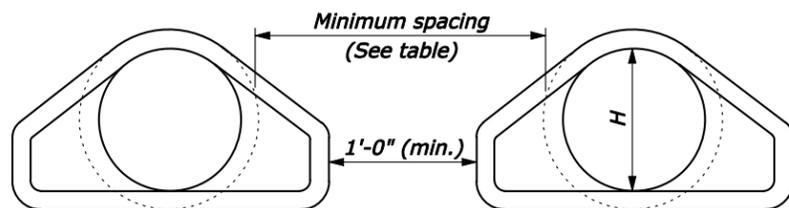
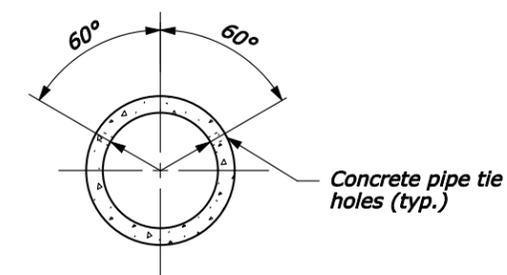
EMBANKMENT INSTALLATION

TRENCH INSTALLATION



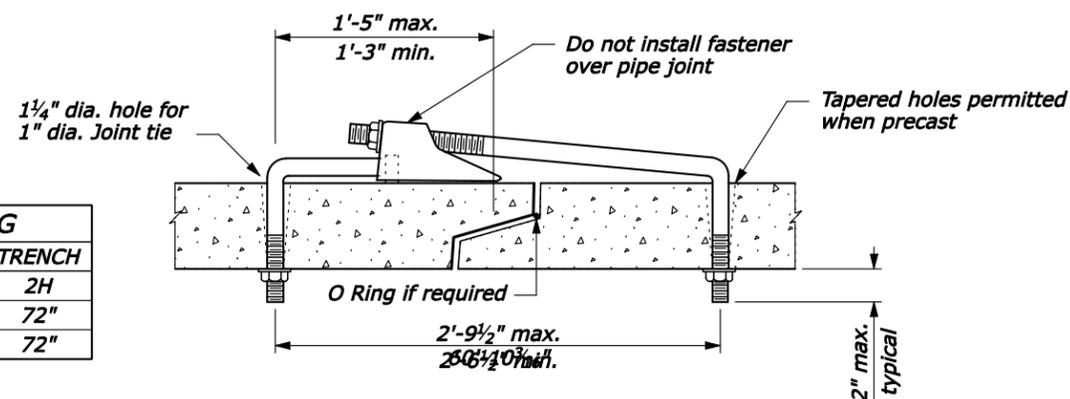
Construct a piping plug of impermeable backfill material at the pipe inlet where granular material is used for backfill. Width may be adjusted to tie into impervious material.

PIPING PLUG



MULTIPLE ROUND PIPE INSTALLATION

MINIMUM SPACING		
DIAMETER	EMBANKMENT	TRENCH
12"-36"	15"	2H
36"-96"	0.5H	72"
OVER 96"	48"	72"



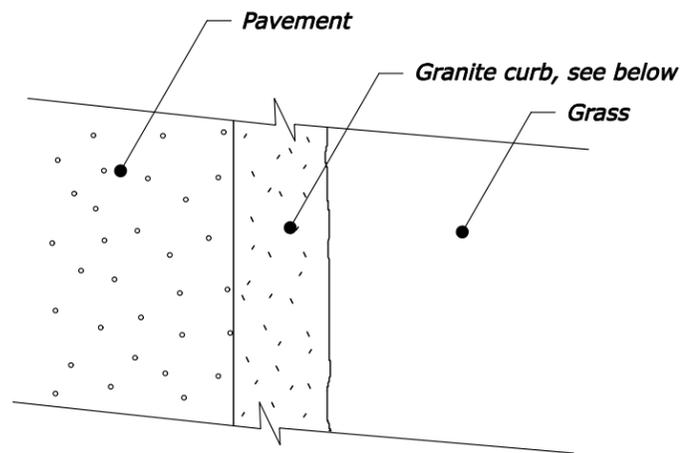
SUPPLEMENTAL CONCRETE PIPE TIE

NO SCALE

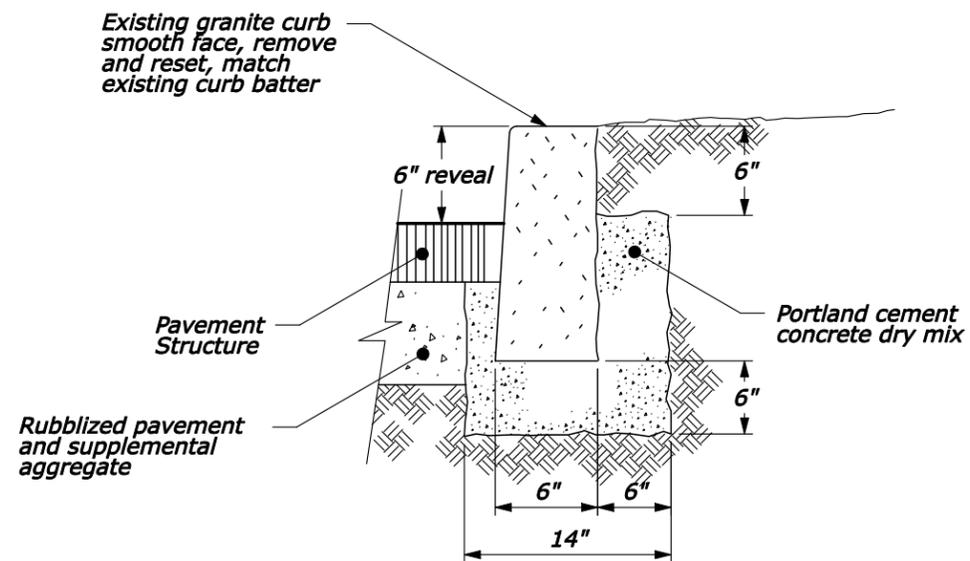
NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S8

NOTES:

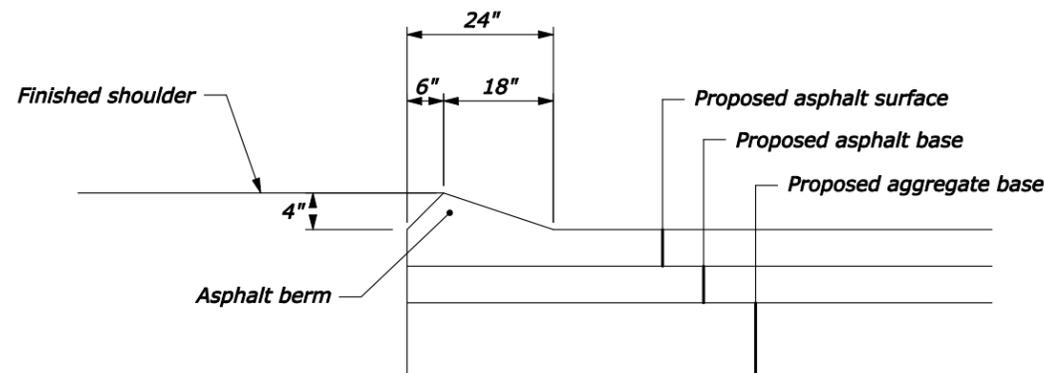
- 1) Carefully remove existing stone curb from islands, in order to prevent damage. Reset curb according to the plans, matching existing batter and providing a 6 inch reveal. Salvage all remaining unused curb to the NPS maintenance site.
- 2) Transition granite curb from 6 inch reveal to flush with pavement grade by transitioning burial depth below surface.
- 3) When replacing existing Cape Cod Berm, match existing width.



EXISTING STONE CURB PLAN



EXISTING STONE CURB ELEVATION



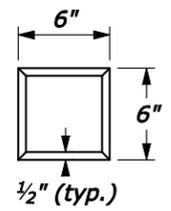
CAPE COD BERM

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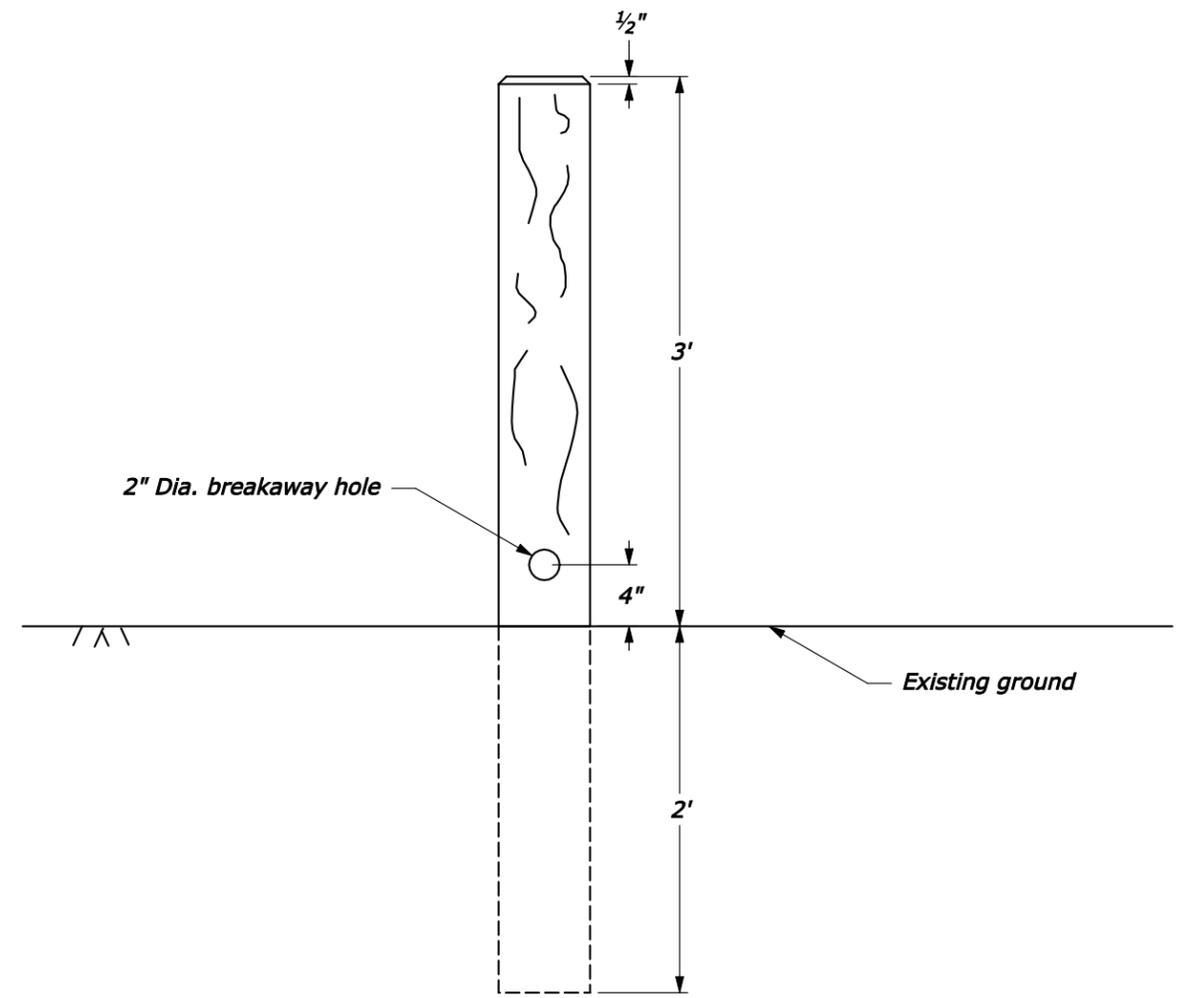
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
DETAIL	
CURB	
REVISIONS: 1/03	DETAIL E609-A

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S9



PLAN



SECTION

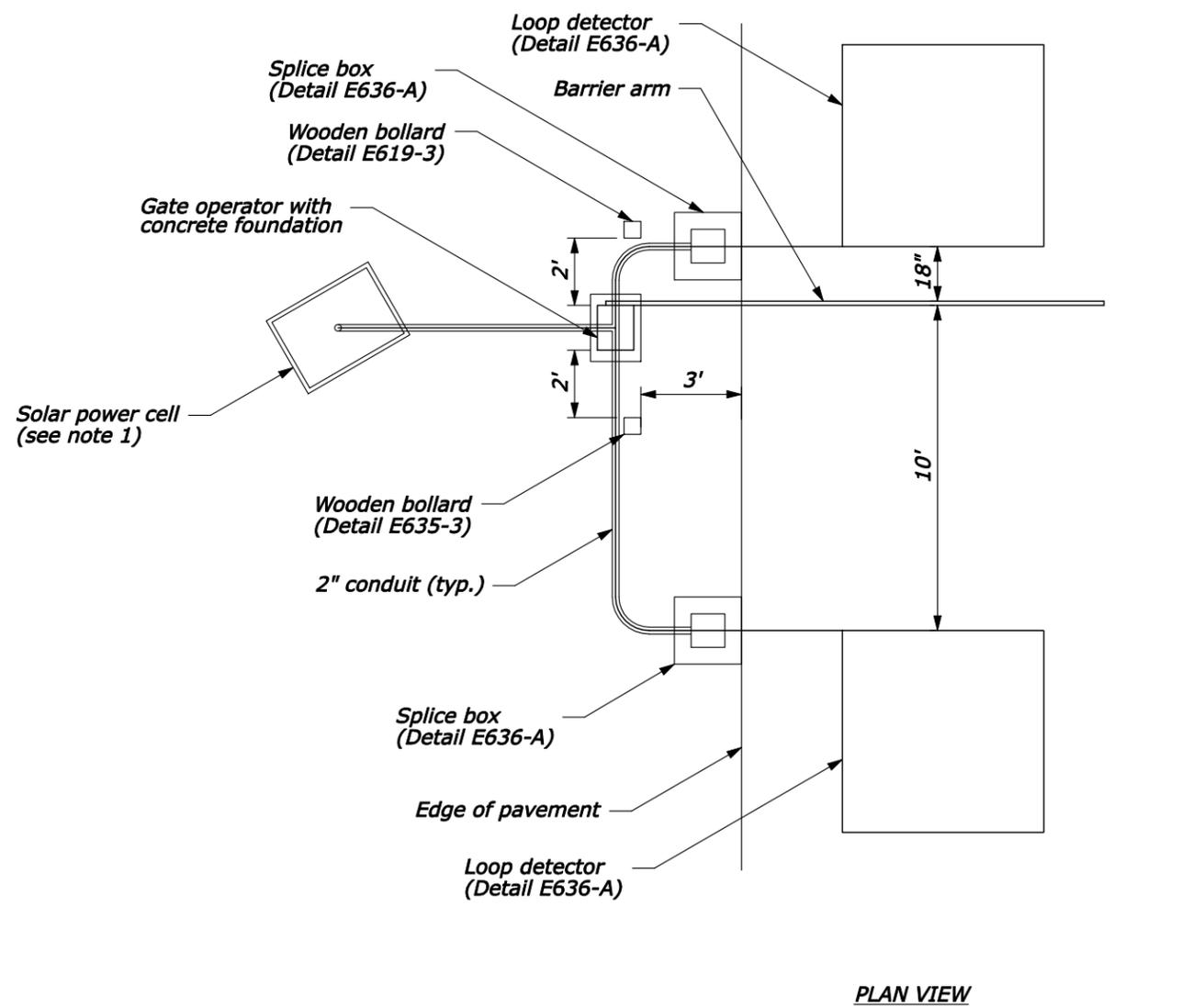
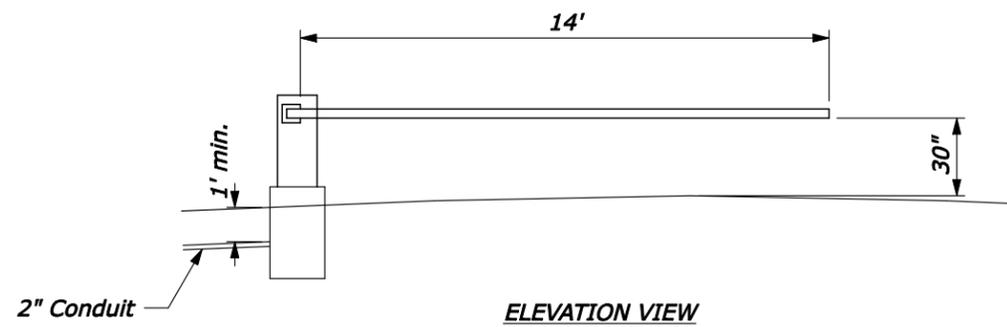
- Notes:**
- 1) Post dimensions are nominal.
 - 2) Breakaway hole required.
 - 3) Drill holes perpendicular to the direction of traffic.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
DETAIL WOOD BOLLARD	
REVISIONS:	DETAIL E619-3

NO SCALE

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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S10



- Note:**
- 1) Site and orient solar power cell to receive the optimum amount of sunlight.
 - 2) Submit proposed gate operator and concrete foundation details to CO for approval.
 - 3) Gate operator housing may mount directly on the concrete foundation or on a pole. Pole mounting not shown.

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

BARRIER ARM GATE

DETAIL
E619-A

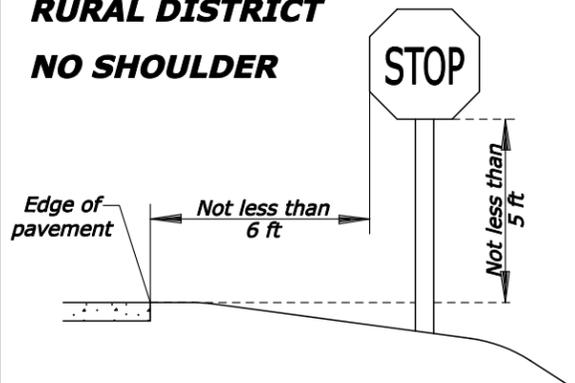
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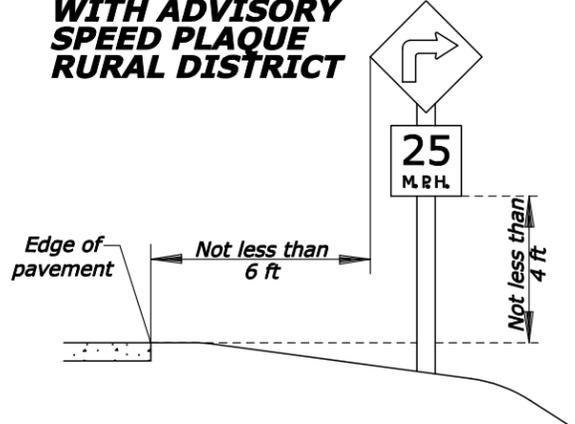
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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	SII

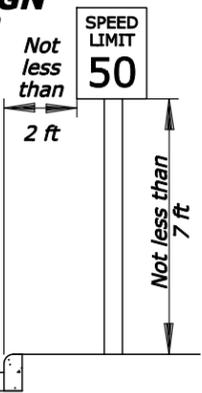
**ROADSIDE SIGN
RURAL DISTRICT
NO SHOULDER**



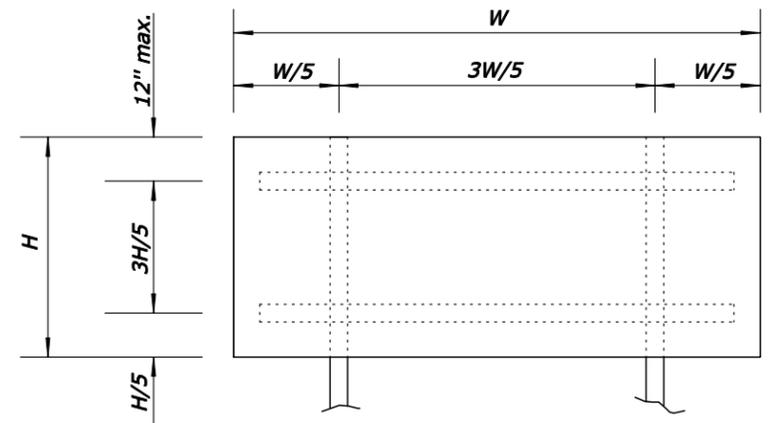
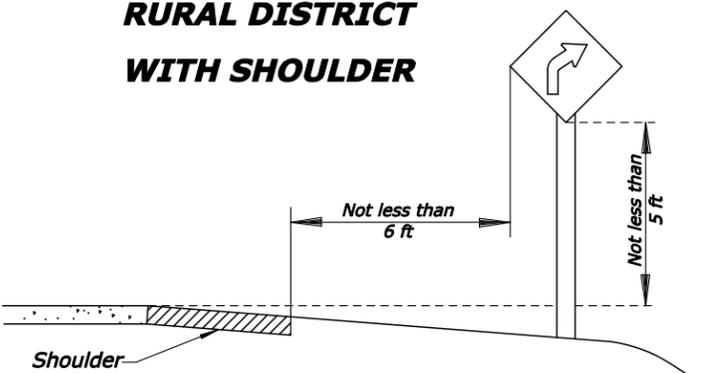
**WARNING SIGN
WITH ADVISORY
SPEED PLAQUE
RURAL DISTRICT**



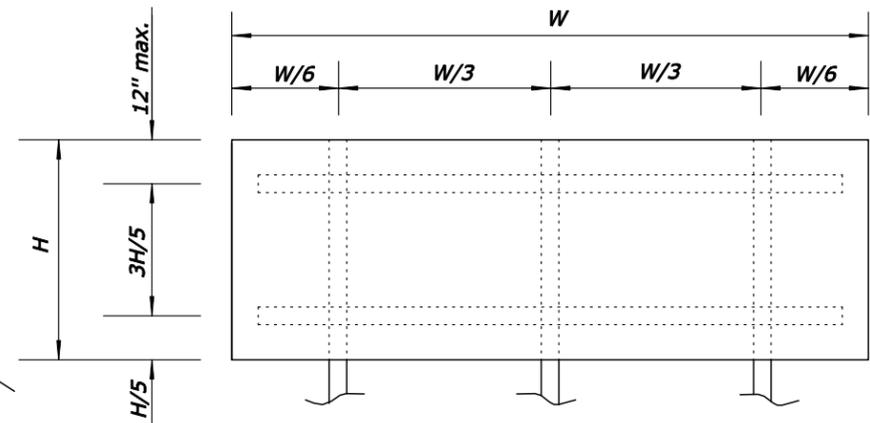
**ROADSIDE SIGN
BUSINESS OR
RESIDENCE
DISTRICT**



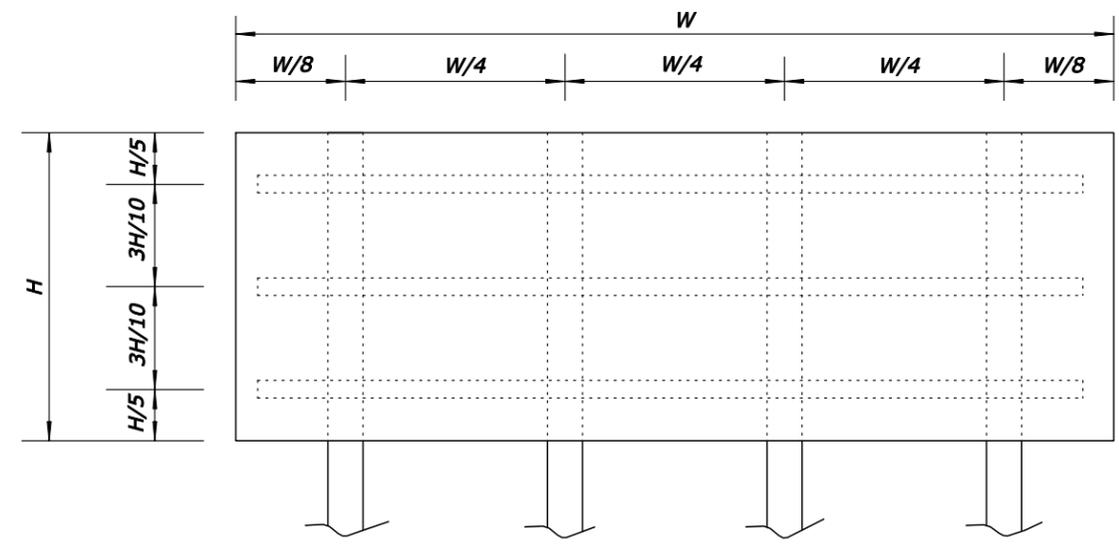
**ROADSIDE SIGN
RURAL DISTRICT
WITH SHOULDER**



DOUBLE POST



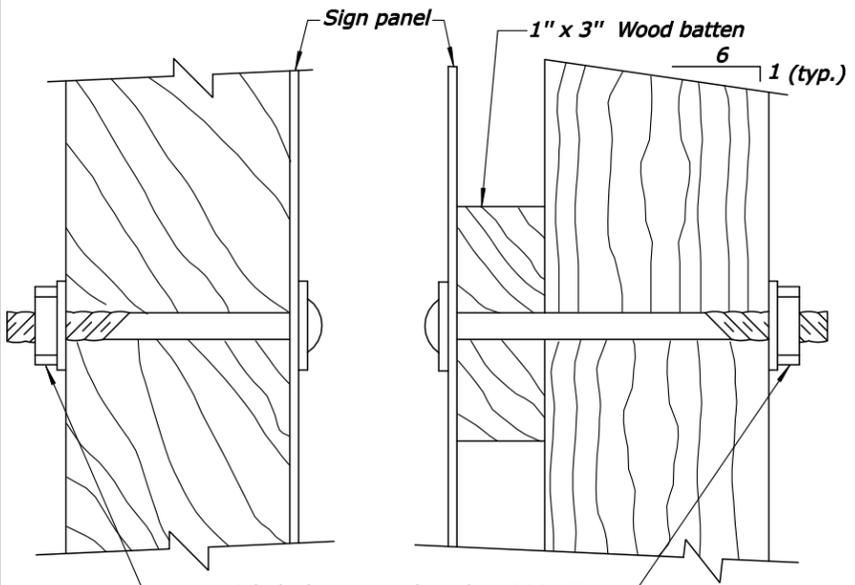
TRIPLE POST



QUADRUPLE POST

Notes:

- Locations and height to be in accordance with the 'Manual on Uniform Traffic Control Devices for Streets and Highways' (MUTCD), latest edition.
- Use wood battens bolted to post at vertical spacings not to exceed 30-inches.
- Use double posts if W is over 3 feet.
- For sign punching details, see the blank standards in the "Standard Highway Signs" as specified in the MUTCD, latest edition.
- For steel posts, provide a 1/4" x 6" soil plate. Use the same type of steel for the soil plate as for the post. Soil plate is not required for breakaway design.
- For signs requiring posts sizes 6 x 6 and greater, signs are considered to be non-breakaway if multiple posts are required and posts cannot be spaced a minimum of 7 feet apart. Place non-breakaway signs outside the clearzone or shield with approved barrier. Do not place holes in posts of non-breakaway signs.
- Depth, D, is to be in accordance with the 'Manual on Uniform Traffic Control Devices for Streets and Highways' (MUTCD), latest edition, Section 2A.21 and the AASHTO manual 'Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals', latest edition or as directed by the CO. D (min) is given in CHART A.



M10 bolt, hexnut and washer, 2024-T4, aluminum or galvanized steel or equal as approved by the CO.

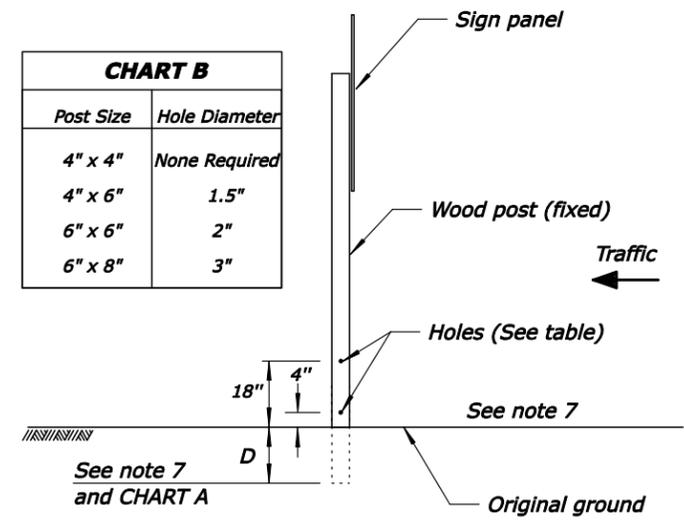
WITHOUT BATTEN

WITH BATTEN

FASTENER DETAIL

CHART B

Post Size	Hole Diameter
4" x 4"	None Required
4" x 6"	1.5"
6" x 6"	2"
6" x 8"	3"



BREAKAWAY SUPPORT DETAIL

CHART A

Post Size (Inch)	D (min.) *	Maximum Sign Area (sq. ft.)			
		Single Post	Double Post	Triple Post	Quadruple Post
4 x 4 (Wood)	3'	10	20		
4 x 6 (Wood)	4'	15	35	45	60
6 x 6 (Wood)	4'	20	50	75	100

* See note 7

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

SIGN STRUCTURES

DETAIL APPROVED FOR USE

REVISID: 03/07

DETAIL E633-01

NO SCALE

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STEEL POST FOOTING DATA TABLE

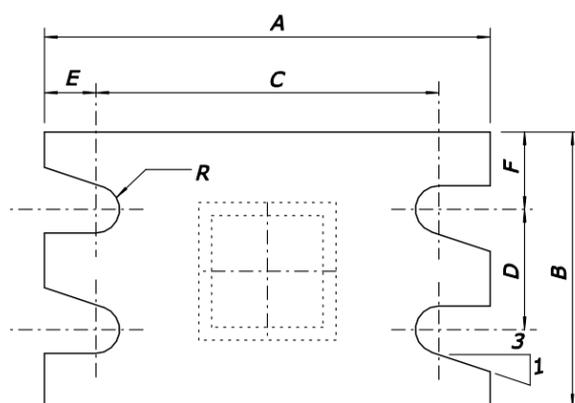
POST SIZE	NOMINAL SIZE (IN.)	STUB		FOOTING	
		PROJ.	LENGTH	DIA.	MINIMUM DEPTH
a	2 X 2	4"	2'	12"	3'
b	3 X 4	4"	2'	15"	3'
c	4 X 6	4"	2'	15"	3'

STEEL POSTS FOR GROUND MOUNTED SIGNS

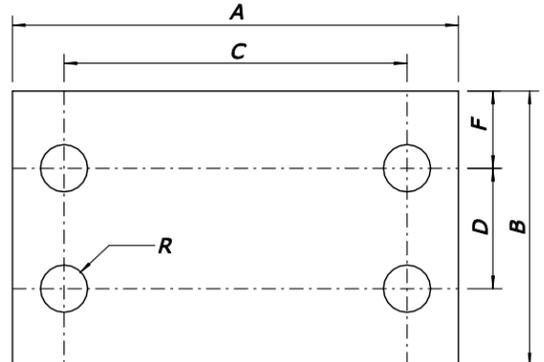
POST SIZE	NOMINAL SIZE (IN.)	BOLT SPECIFICATIONS	BASE CONNECTION DATA TABLE (Inches)										
			A	B	C	D	E	F	t ₁	t ₂	w	R	
a	2 X 2	5/8"Ø X 2 1/2" HS 450 IN. - LBS.	6 1/2	4	5	1 3/4	3/4	1 1/8	5/8	3/16	3/16	3/16	11/16
b	3 X 4		8 1/2	4	7	1 3/4	3/4	1 1/8	5/8	3/16	1/4	11/16	
c	4 X 6	5/8"Ø X 3" HS 450 IN - LB	10	5	8 1/2	2 1/2	3/4	1 1/4	3/4	1/4	5/16	11/16	

FUSE PLATE DATA TABLE (Inches)

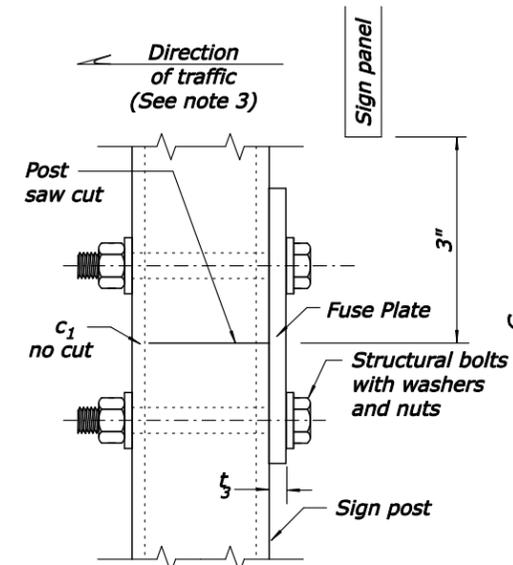
POST SIZE	G	H	J	K	L	M	N	d ₁	t ₁	c ₁	BOLT DIAM.	TORQUE FT.-LBS.
a	4	2 1/4	1 1/8	2	7/8	9/16	5/8	7/16	1/4	1/4	3/8	200
b	4	2 1/4	1 1/8	3	1 1/4	7/8	5/8	9/16	5/16	1/4	1/2	200
c	4 1/2	2 3/8	1 1/4	4	1 3/4	1 1/8	7/8	1 1/16	3/8	3/8	5/8	200



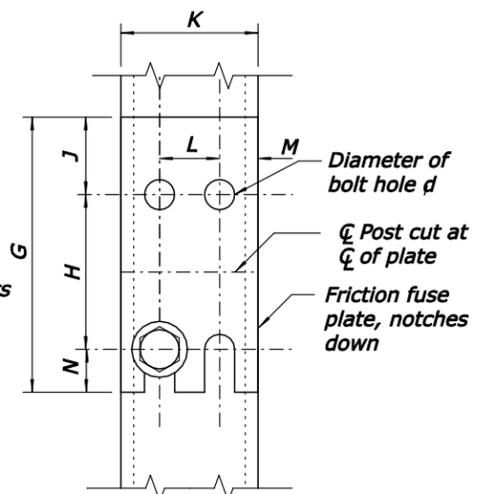
**SECTION A-A
BREAKAWAY PLATE**



BOND BREAKING PLATE

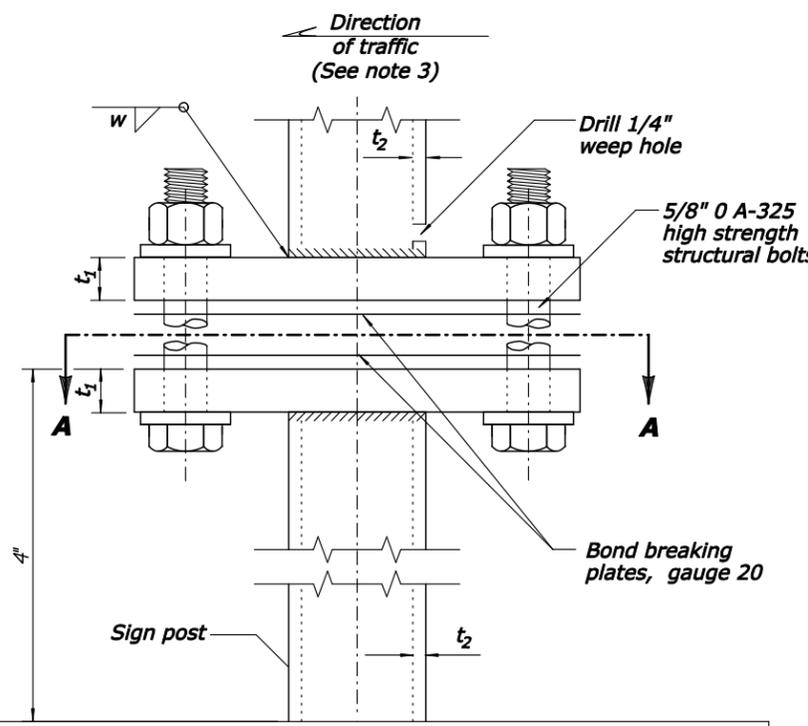


SIDE ELEVATION

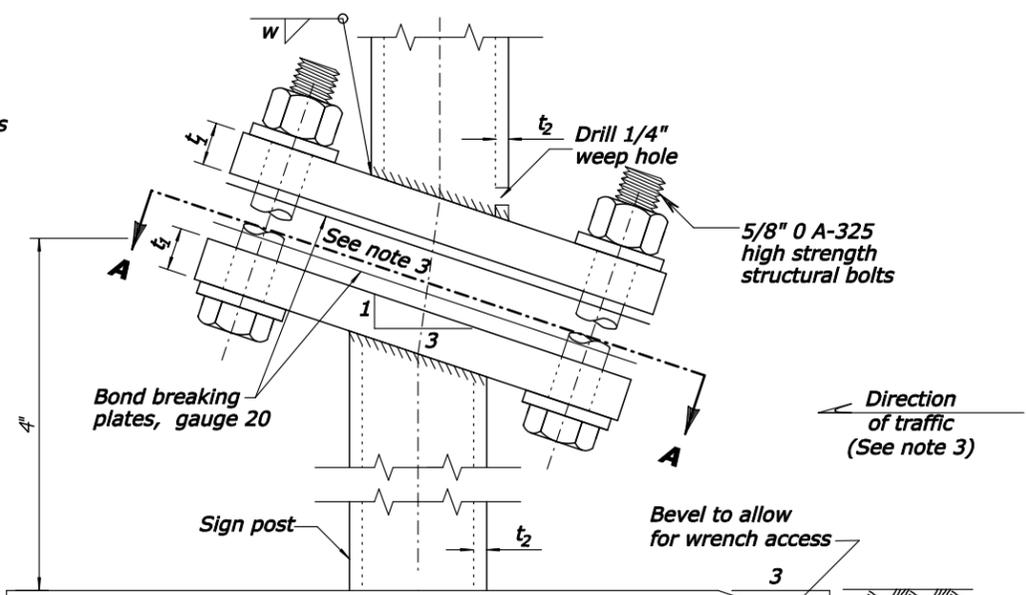


**FRONT ELEVATION
(See Note 5)**

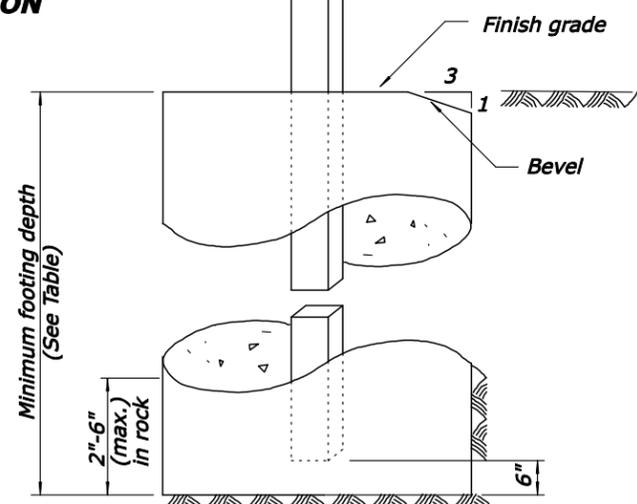
- NOTES:**
1. Breakaway design is not required for signs placed behind protective barriers.
 2. Breakaway assembly to be installed in the direction of major traffic.
 3. The multiple post breakaway detail to be used on single posts in medians where exposed to opposing lanes of traffic.
 4. Fuse plates are to be used on multiple post installations only.
 5. The breakaway plates, only are to be painted brown to match the final appearance of the weathering steel posts.



**SIDE ELEVATION
(See Note 4)
MULTIPLE POST**



**SIDE ELEVATION
SINGLE POST**



CONCRETE FOOTING DETAILS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

**BREAKAWAY SIGN SUPPORT,
WEATHERING STEEL**

DETAIL APPROVED FOR USE

REVIS: 07/98 03/07

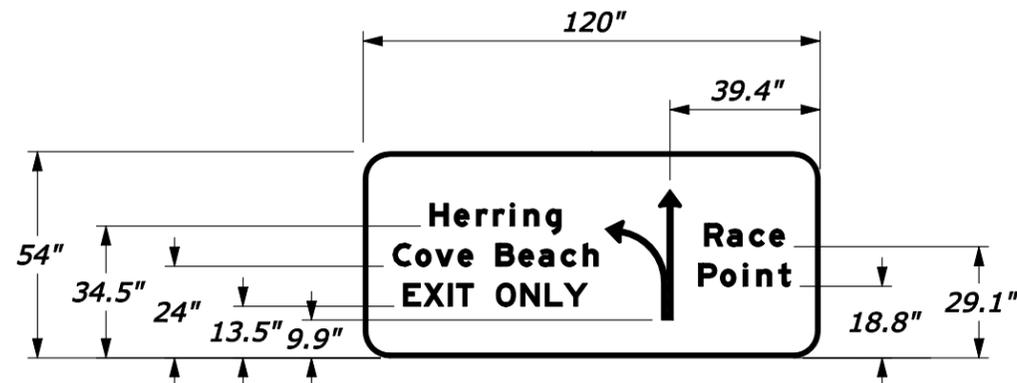
DETAIL
E633-02

NO SCALE

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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S14

SIGN NUMBER	Special-2
WIDTH x HGHT.	10'-0" x 4'-6"
BORDER WIDTH	1.25"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Brown
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White



SYMBOL	ROT	X	Y	WID	HT
SPLIT ARW	0	63.5	9.9	20.1	34.2

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
H	e	r	r	i	n	g					EM 2000	
17.5	23.9	29.7	34.1	38.6	42.2	48					34.4	6/4.4
R	a	c	e								EM 2000	
89.6	95.6	101.4	106.7								21	6/4.4
C	o	v	e		B	e	a	c	h		EM 2000	
7.8	13.8	19.1	24.9	28.8	34.8	40.8	46.1	51.9	57.8		53.9	6/4.4
P	o	i	n	t							EM 2000	
88	93.8	99.7	103.3	109.1							24.2	6/4.4
E	X	I	T		O	N	L	Y			E 2000	
10.6	15.9	22.4	24.5	29	35	41.4	47.8	52.8			48.3	6

- Notes:**
- Letter and symbol locations are panel edge to lower left corner.
 - Dimensions are in inches unless otherwise noted.

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

PERMANENT SIGN DETAILS

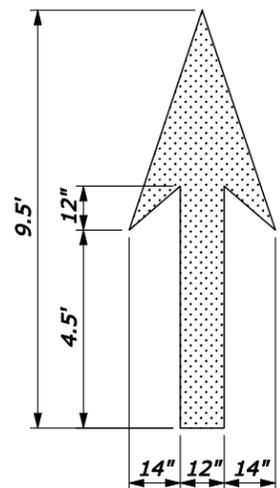
SHEET 2 OF 2

REVISED:	DETAIL E633-A
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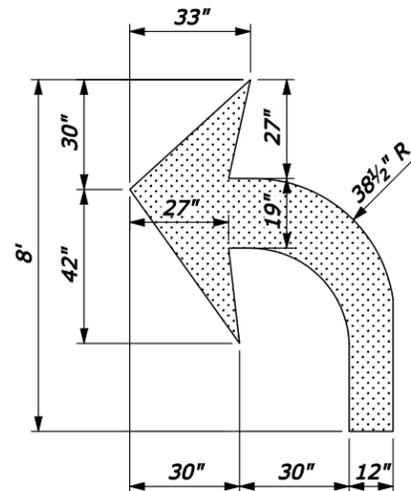
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NOTE:

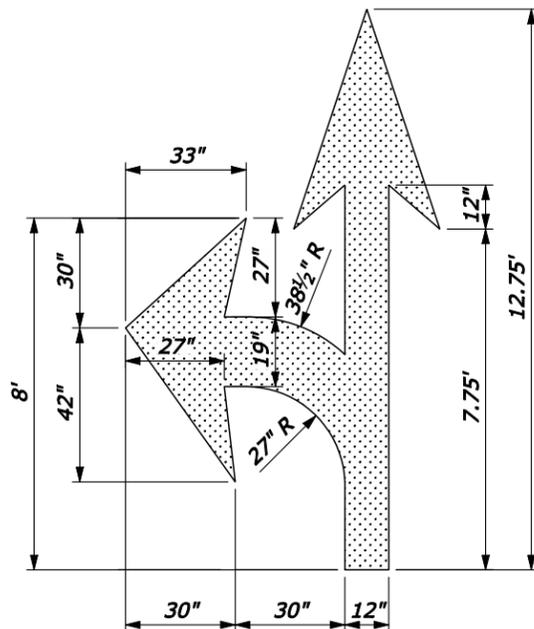
1. Place pavement word and symbol markings in accordance with the "Manual on Uniform Traffic Control Devices" (MUTCD), current edition.
2. All letters, numerals and symbols shall conform with the "Standard Highway Signs", current edition.
3. The Accessibility Parking Space marking only includes the accessibility symbol unless a border is indicated in the Striping Plans.



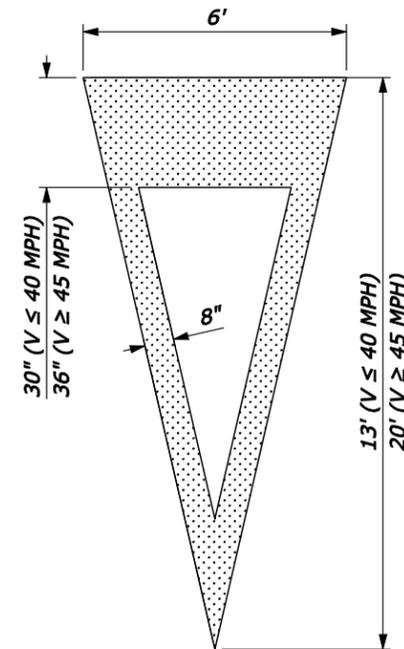
THROUGH LANE-USE ARROW



TURN LANE-USE ARROW

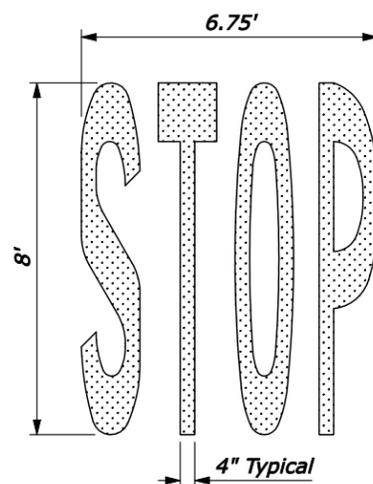


TURN AND THROUGH LANE-USE ARROW

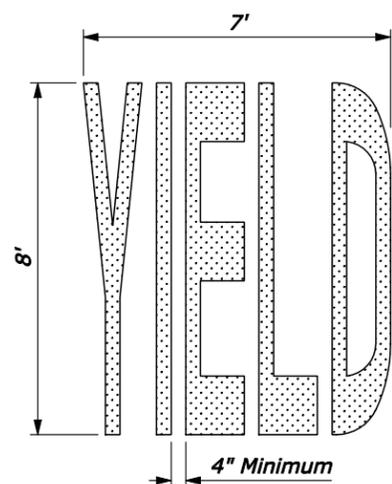


YIELD AHEAD TRIANGLE SYMBOL

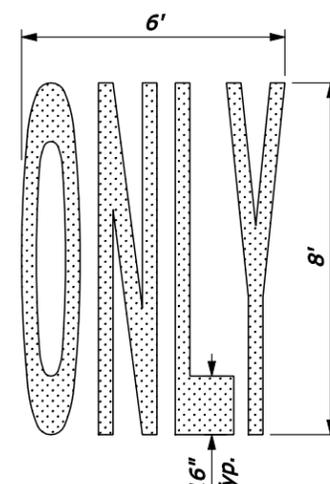
PAVEMENT MARKING AREAS	
TYPE	SQFT
Through Lane-Use Arrow	12
Turn Lane-Use Arrow	16
Turn and Through Lane-Use Arrow	26
Yield Ahead Arrow (V < 70 km/h)	26
Yield Ahead Arrow (V ≥ 70 km/h)	37
Accessibility Marking (symbol only)	2
Accessibility Marking w/ border (White)	5
Accessibility Marking w/ border (Blue)	9
AHEAD Word Marking	30
ONLY Word Marking	21
SCHOOL Word Marking	33
STOP Word Marking	22
YIELD Word Marking	24



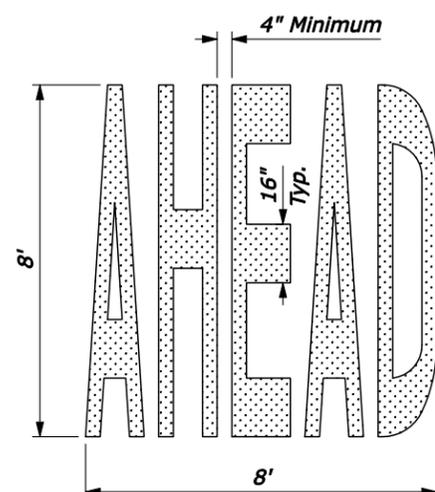
"STOP" WORD MARKING



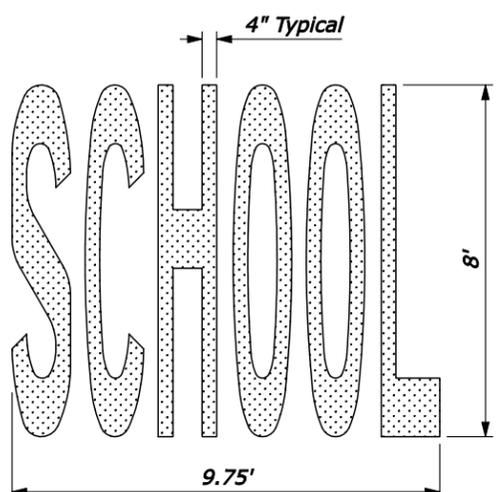
"YIELD" WORD MARKING



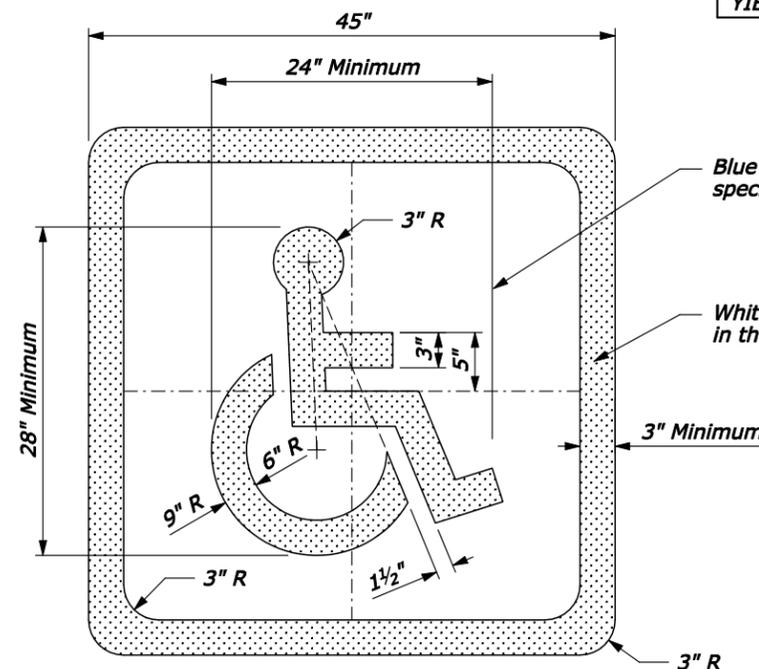
"ONLY" WORD MARKING



"AHEAD" WORD MARKING



"SCHOOL" WORD MARKING



ACCESSIBILITY PARKING SPACE MARKING

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

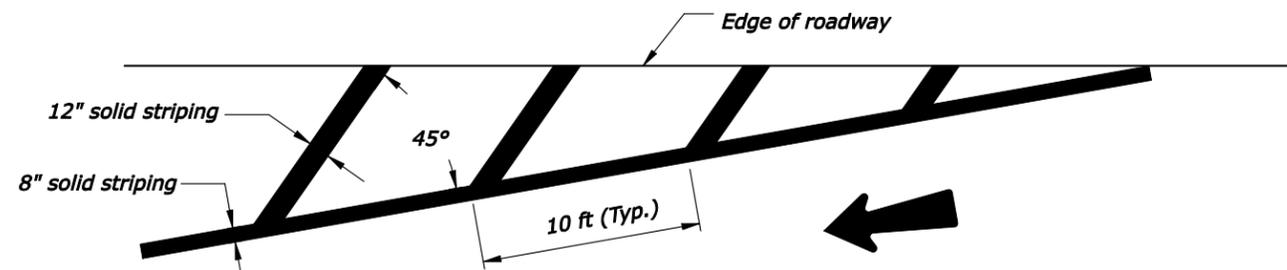
U.S. CUSTOMARY DETAIL

**PAVEMENT MARKINGS
SYMBOLS AND WORDS**

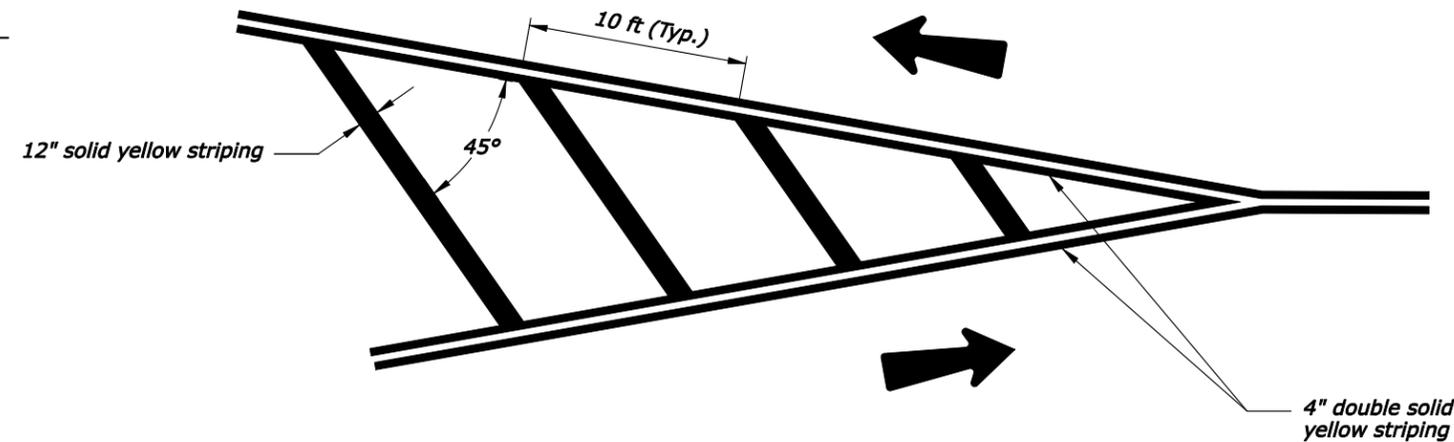
DETAIL APPROVED FOR USE 3/2003
REVISED: 06/2007

DETAIL
E634-01

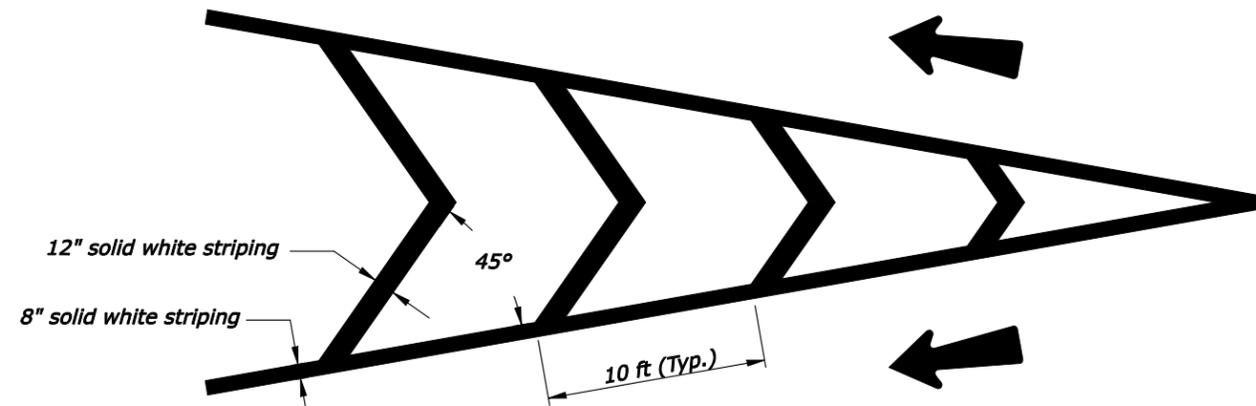
NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S16



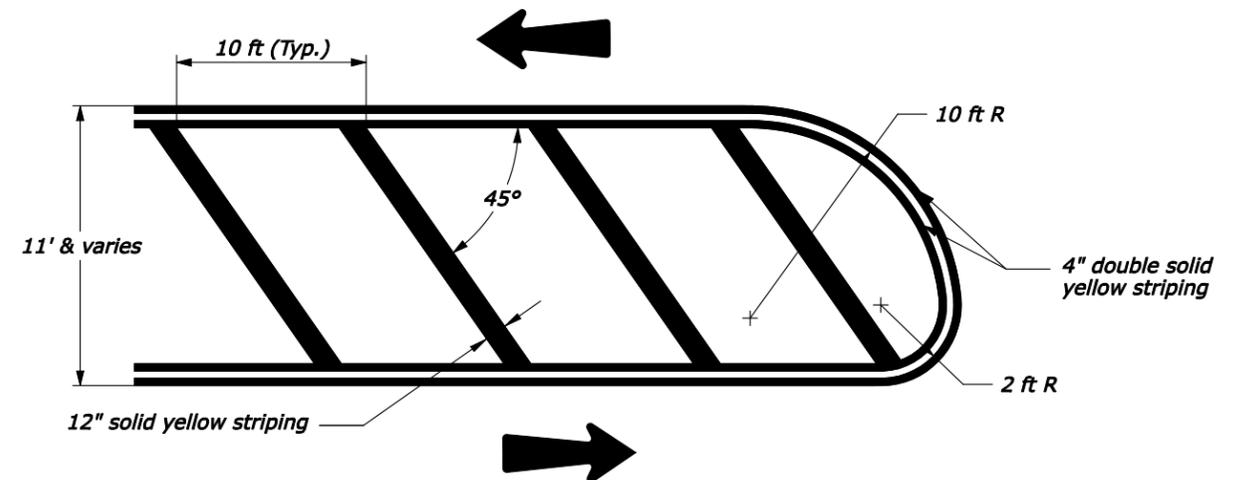
ONE-WAY TRAFFIC -- LANE SHIFT



TWO-WAY TWO-LANE TRAFFIC -- LANES SEPARATE



ONE-WAY TWO-LANE TRAFFIC -- LANES SEPARATE



TWO-WAY TWO-LANE TRAFFIC -- MEDIAN

NOTE:

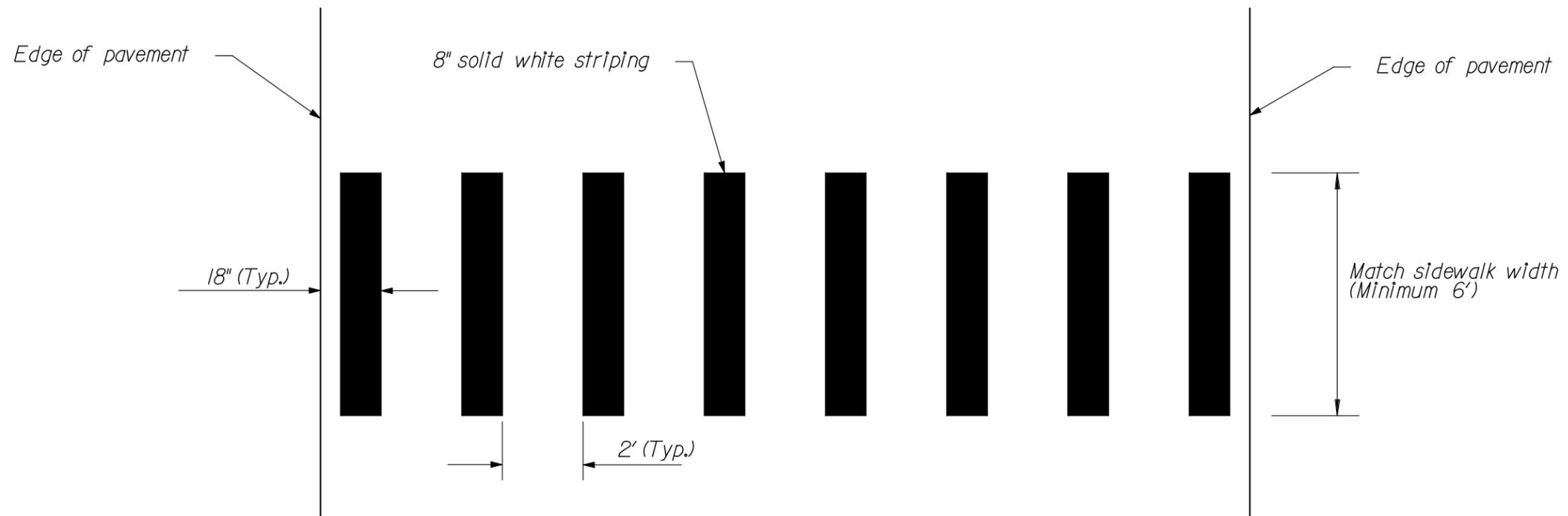
Place all striping in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), latest edition.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
PAVEMENT MARKERS IN NEUTRAL AREAS	
DETAIL APPROVED FOR USE	DETAIL
REVISED: Modified from E634-04 09/07	E634-A

NO SCALE

5/29/2008 4:49:39 PM M:\Proj\ecis\caco\1811\proj\der\NCADD_S16-Det\sf63499a_detail.dgn

NPS No.	REG	STATE	PROJECT	SHEET NO.
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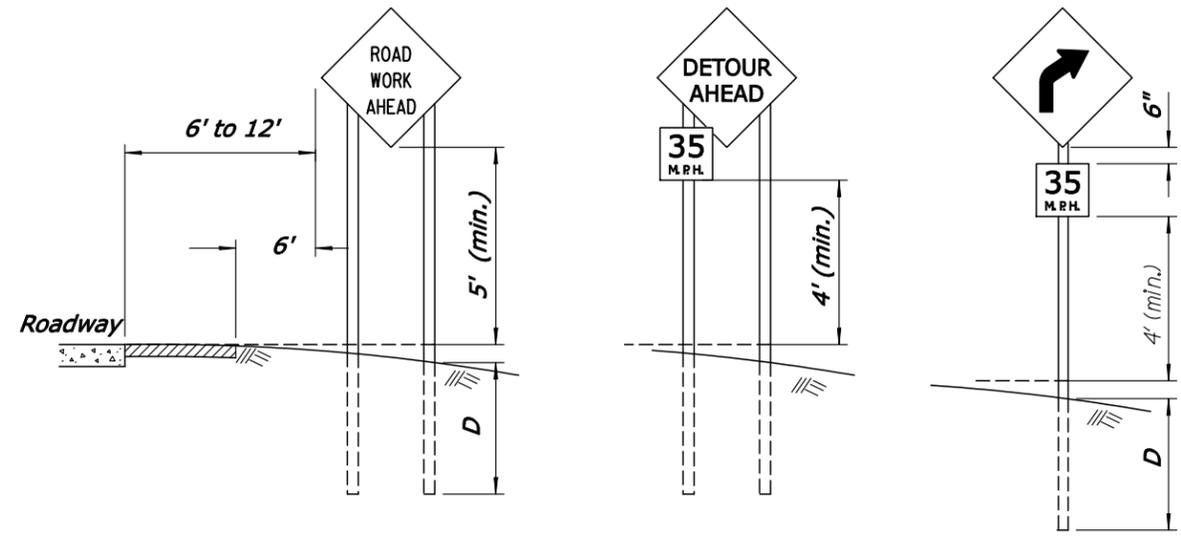


CROSSWALK STRIPING

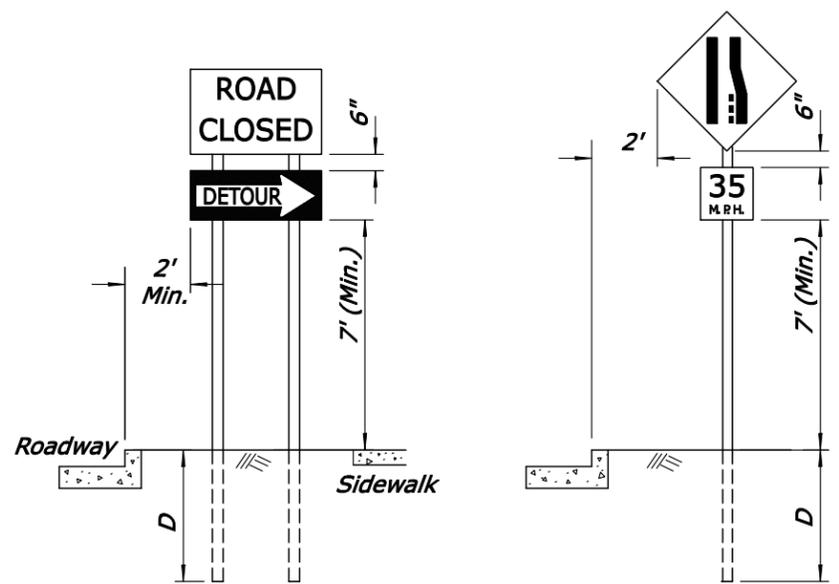
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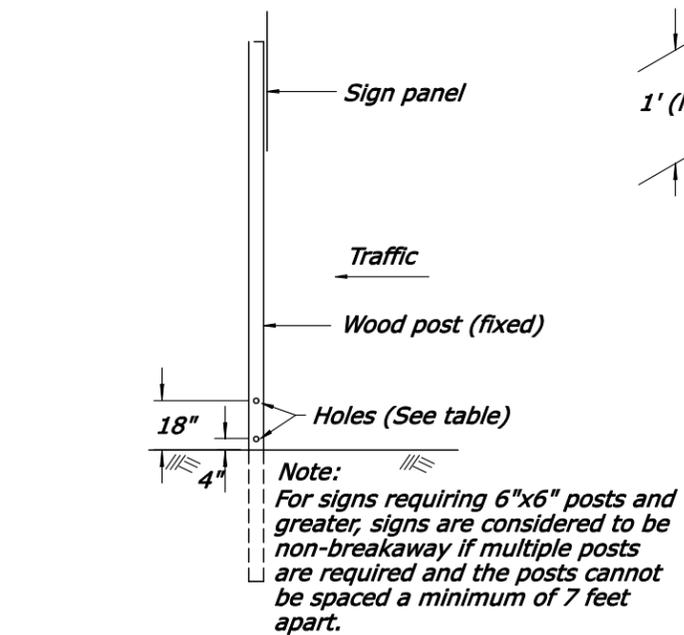
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
CROSSWALK	
REVISED:	DETAIL E634-B



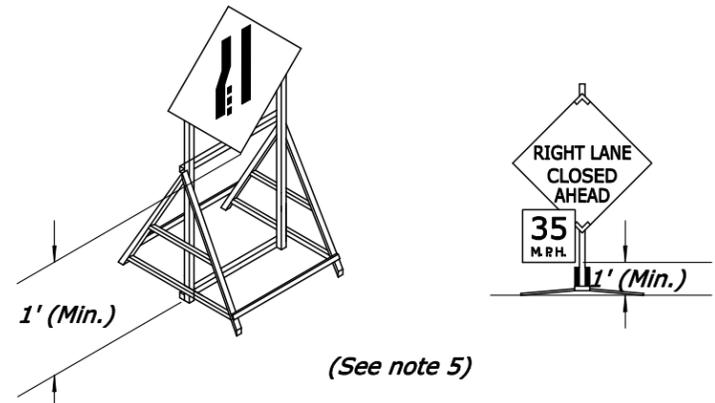
RURAL AREA



URBAN AREA



**BREAKAWAY SUPPORT DETAIL
(FIXED SIGNS - 4" x 6" AND GREATER POSTS)**



**PORTABLE SIGNS
(See note 4)**

- Notes:**
1. Wood posts are 4"x 4" unless otherwise indicated.
 2. Mount signs that are wider than 3-feet or larger than 10 square feet on double posts.
 3. All lumber dimensions are nominal.
 4. The Contractor may submit alternate details for portable signs, however, sign mounts hold the sign face in a vertical plane. Portable signs may be mounted lower than fixed signs when approved by the CO. Ensure all portable sign supports meet the requirements of NCHRP-350 for crashworthiness.
 5. When parking is permitted within 200 feet of the sign, mount the sign a minimum of 7 feet above the pavement surface.
 6. When approved by the CO and the Utility Company, utility poles may be used for sign mounting.
 7. For posts greater than 4" x 4" see the Breakaway Support Detail. If breakaway design cannot be used, due to post spacing, the sign should be placed outside the clearzone or be shielded by barrier. Do not place holes in posts of non-breakaway signs

FIXED ROADWAY SIGNS

Post size	D	Hole Dia.	Maximum Sign Area - Sq. ft.			
			1 Post	2 Posts	3 Posts	4 Posts
4" x 4"	4'	None Req'd	10	20		
4" x 6"	4'	1.5"		35	50	70
6" x 6"	5'	2"		50	75	100
6" x 8"	5'	3"		85	125	165

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

**CONSTRUCTION TRAFFIC
CONTROL SIGN MOUNTING**

DETAIL APPROVED FOR USE 02/2007

REVISID: 02/07 06/07

DETAIL
E635-01

5/29/2008 4:50:25 PM:MM:Proj\ecis\caco\8(1)\pro_dev\NCADD_Sig-Det\sf63501_detail.dgn

LENGTH AND SPACING TABLE					
APPROACH SPEED*	MINIMUM TAPER LENGTH**	LENGTH OF BUFFER SPACE	CHANNELIZING DEVICE		
			TAPER AREA	BUFFER SPACE	WORK SPACE
MPH	FEET	FEET	SPACING IN FEET		
25	Shoulder taper formula:	155	25	50	50
30	$L = \frac{WS^2}{180}$ for $S \leq 40$ MPH	200	30	60	60
35	$L = \frac{WS}{3}$ for $S \geq 45$ MPH	250	35	70	70
40	Where:	305	40	80	80
45	L = Minimum length of taper	360	45	90	90
50	W = Width of offset in feet	425	50	100	100
55	S = Numerical value of posted speed limit or 85 percentile speed prior to work in miles per hour	495	55	110	110

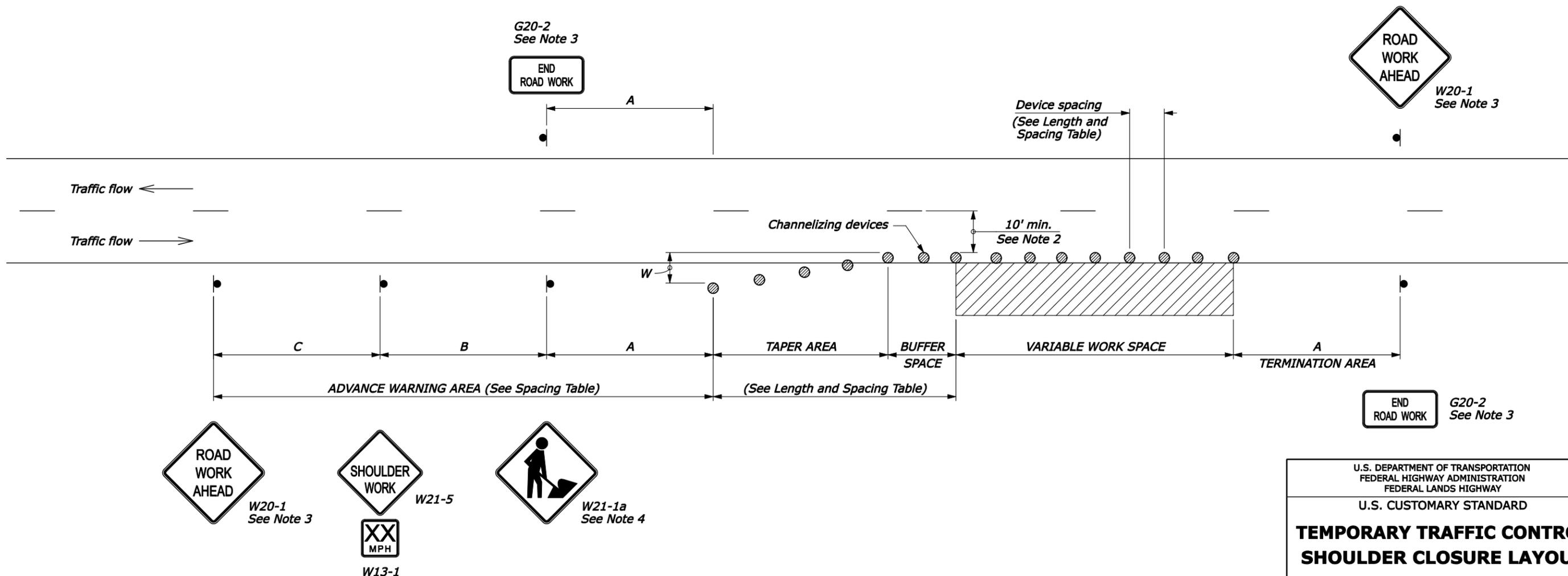
SIGN SPACING TABLE			
ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET		
	A	B	C
Urban 40 MPH and less	100	100	100
Urban 45 MPH and greater	350	350	350
Rural	500	500	500
Expressway/Freeway	1000	1500	2640

NOTE:

1. Final location and spacing of signs and devices may be changed to fit field conditions as approved by the CO.
2. For project specific minimum width, refer to Special Contract Requirements, Section 156.
3. If shoulder closure is completely within the project limits, eliminate the "ROAD WORK AHEAD" (W20-1) and "END ROAD WORK" (G20-2) signs.
4. Remove or cover Workers symbol sign (W21-1a) when workers are not present.
5. Do not allow equipment, materials, or vehicles to be parked or stored in the buffer space.
6. If signs will be in place more than 72 consecutive hours, use ground-mounted post.

* Approach speed based on the regulatory posted speed, not the advisory speed.

** Lengthen taper as needed to provide minimum of three channelizing devices in taper at required spacing.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

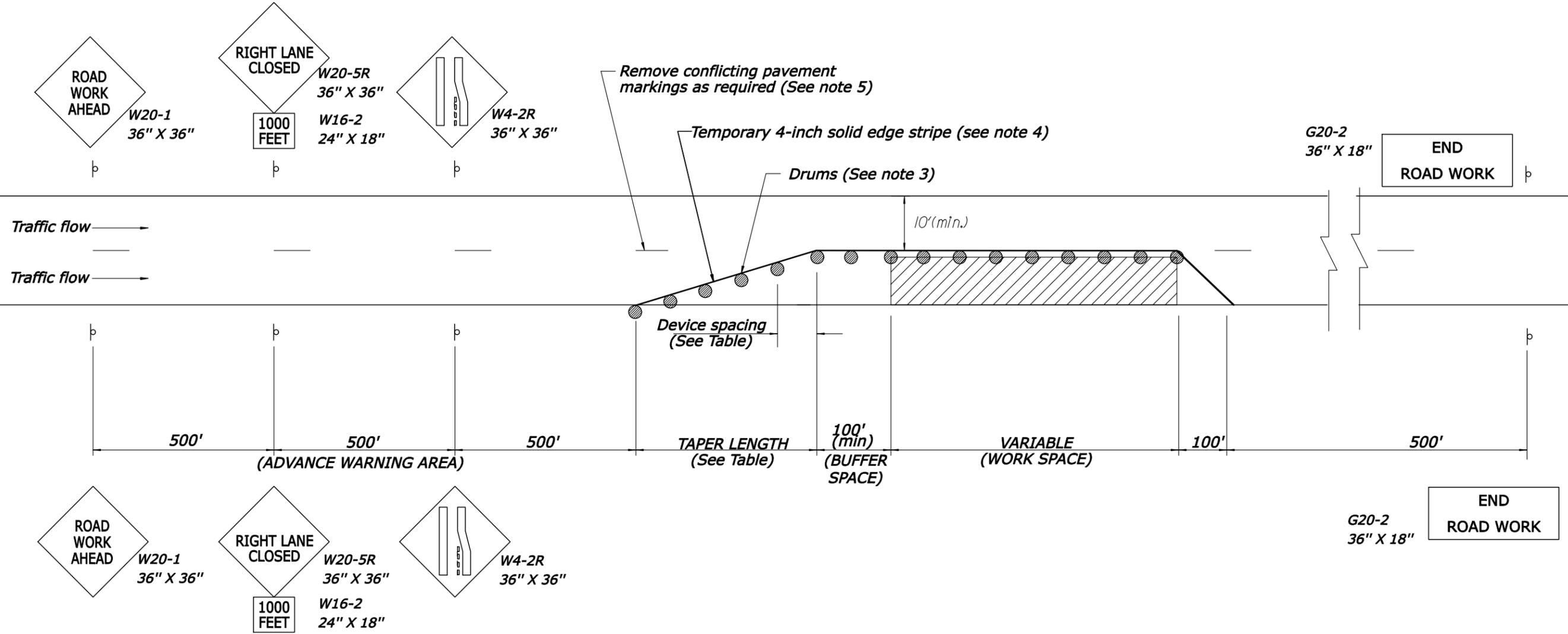
**TEMPORARY TRAFFIC CONTROL
SHOULDER CLOSURE LAYOUT**

STANDARD APPROVED FOR USE 6/2005
REVISED: 6/2007

STANDARD
635-10

NO SCALE

TYPICAL APPLICATION: ONE WAY, TWO LANE ROADWAY, CLOSING ONE LANE



NOTES:

1. Final location and spacing of signs and devices may be changed to fit field conditions as approved by the CO.
2. For operations that require a lane closure for a day or less, drums may be substituted with cones, type A in the work area.
3. Right lane closure is shown. For left lane closure, substitute W20-5R and W4-2R with W20-5L and W4-2L.
4. For long-term operations (operations where the lane is continuously closed for more than three days) remove conflicting pavement markings and place edge line as shown.

APPROACH SPEED (MPH)	MINIMUM TAPER LENGTH (FT)			CHANNELIZING DEVICE SPACING (FT)	
	LANE WIDTH			TAPER AREA	WORK AREA
	10 ft.	11 ft.	12 ft.		
25	105	115	125	25	50
30	150	165	180	30	60
35	205	225	245	35	70
40	270	295	320	40	80
45	450	495	540	45	90
50	500	550	600	50	100
55	550	605	660	55	100

* Speed is based on the regulatory posted speed and not the traffic control warning speed.

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

CONSTRUCTION TRAFFIC CONTROL SINGLE LANE CLOSURE LAYOUT

DETAIL APPROVED FOR USE	DETAIL
REVISED: 12/07 from E635-05	E635-A

5/29/2008 4:51:44 PM M:\Projects\caco\811\proj_dev\NCADD_S1d-Det\sf63599a_detail.dgn

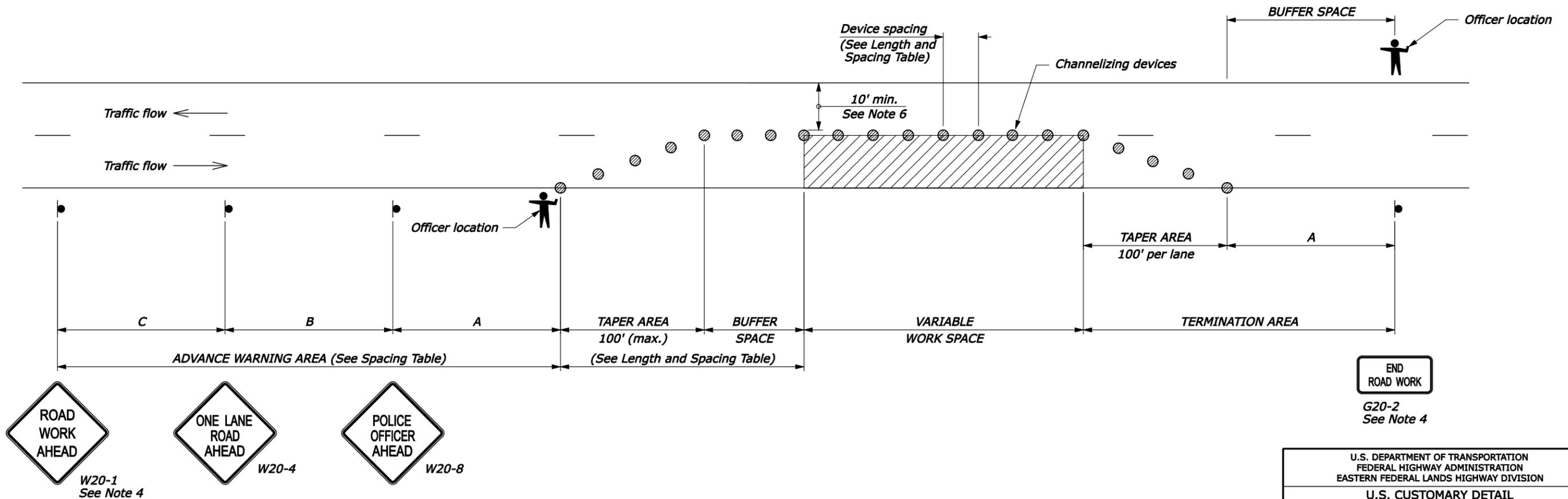
APPROACH SPEED*	LENGTH OF BUFFER SPACE	CHANNELIZING DEVICE		
		TAPER AREA	BUFFER SPACE	WORK SPACE
MPH	FEET	SPACING IN FEET		
25	155	20	50	50
30	200	20	60	60
35	250	20	70	70
40	305	20	80	80
45	360	20	90	90
50	425	20	100	100
55	495	20	110	110

* Approach speed based on the regulatory posted speed, not the advisory speed.

ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET		
	A	B	C
Urban 40 MPH and less	100	100	100
Urban 45 MPH and greater	350	350	350
Rural	500	500	500
Expressway/Freeway	1000	1500	2640

NOTE:

1. Signs are shown for one direction of travel only. Place devices similar to those depicted for the opposite direction of travel.
2. Final location and spacing of signs and devices may be changed to fit field conditions as approved by the CO.
3. For pilot car operation, mount the PILOT CAR FOLLOW ME (G20-4) sign at a conspicuous location on the rear of vehicle. Prominently display the name of the contractor on the pilot car.
4. If closure is completely within the project limits, eliminate the "ROAD WORK AHEAD" (W20-1) and "END ROAD WORK" (G20-2) signs.
5. For night time operation, provide floodlighting at officer stations.
6. For project specific minimum width, refer to Special Contract Requirements, Section 156.
7. Do not allow equipment, materials, or vehicles to be parked or stored in the buffer space.
8. If signs will be in place more than 72 consecutive hours, use ground-mounted post.
9. Cover or remove signs W20-4 and W20-8 when not in use.



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

**TEMPORARY TRAFFIC CONTROL
 SINGLE LANE CLOSURE LAYOUT
 (WITH POLICE DETAIL)**

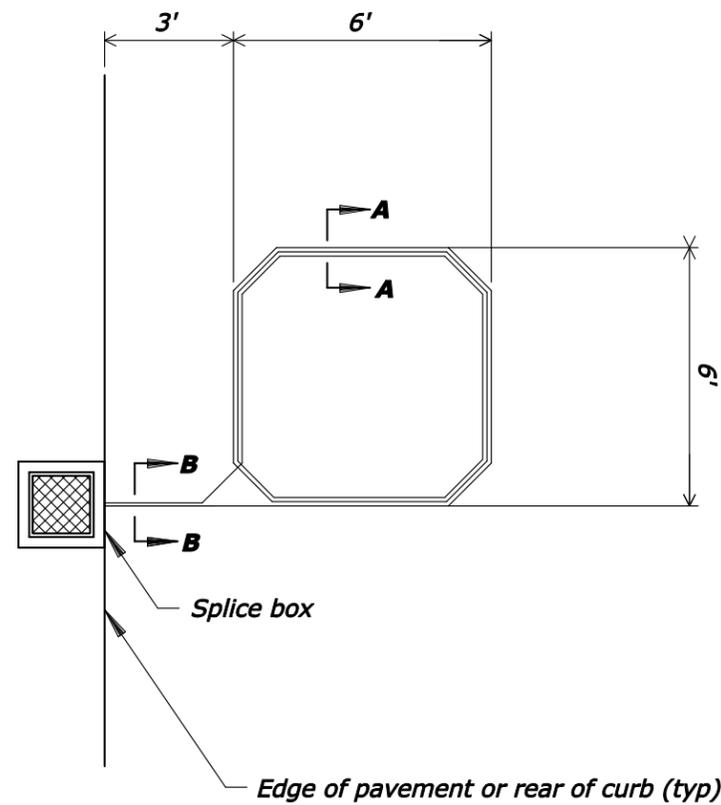
NO SCALE

CREATED 2/2008 FROM FLH STANDARD 635-6 AND MASS HIGHWAY STANDARD TLR-5.

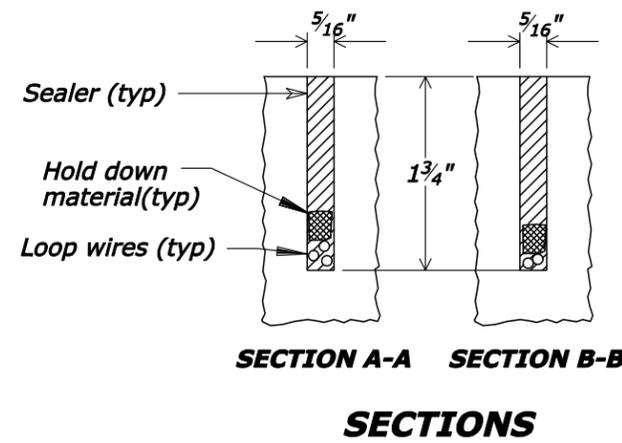
DETAIL
E635-B

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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	S22

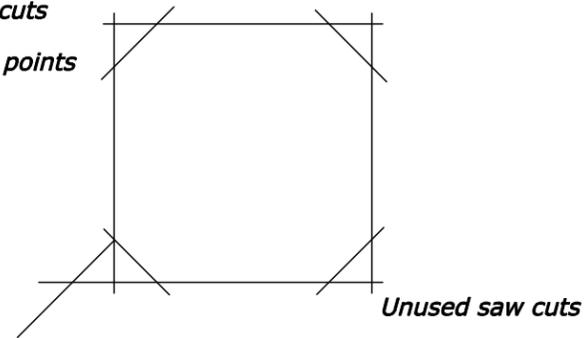


SCHMATIC OF VEHICLE LOOP DETECTORS

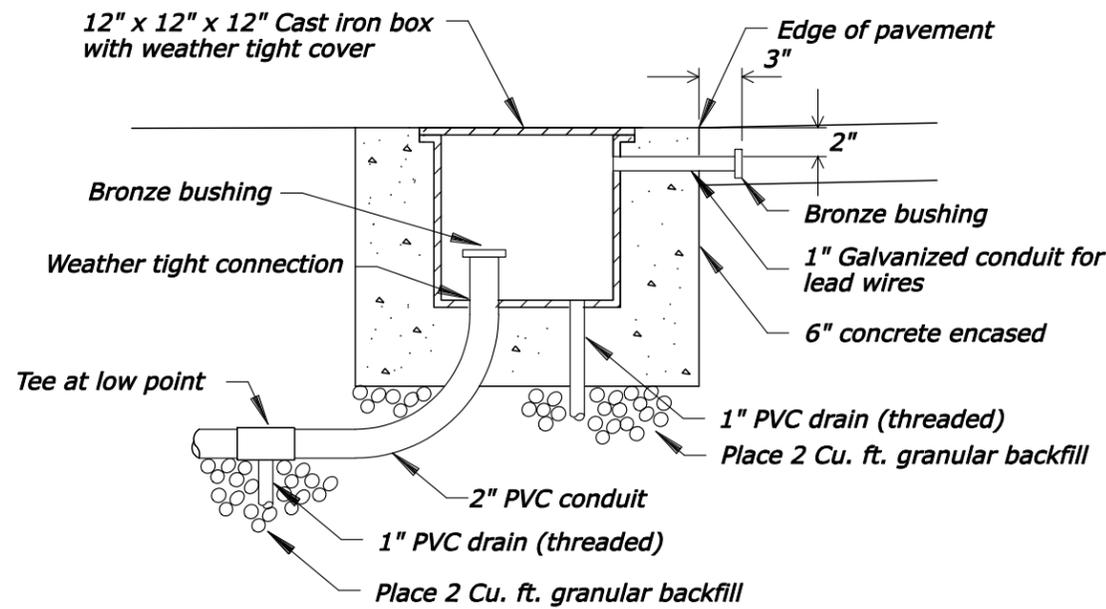


SECTIONS

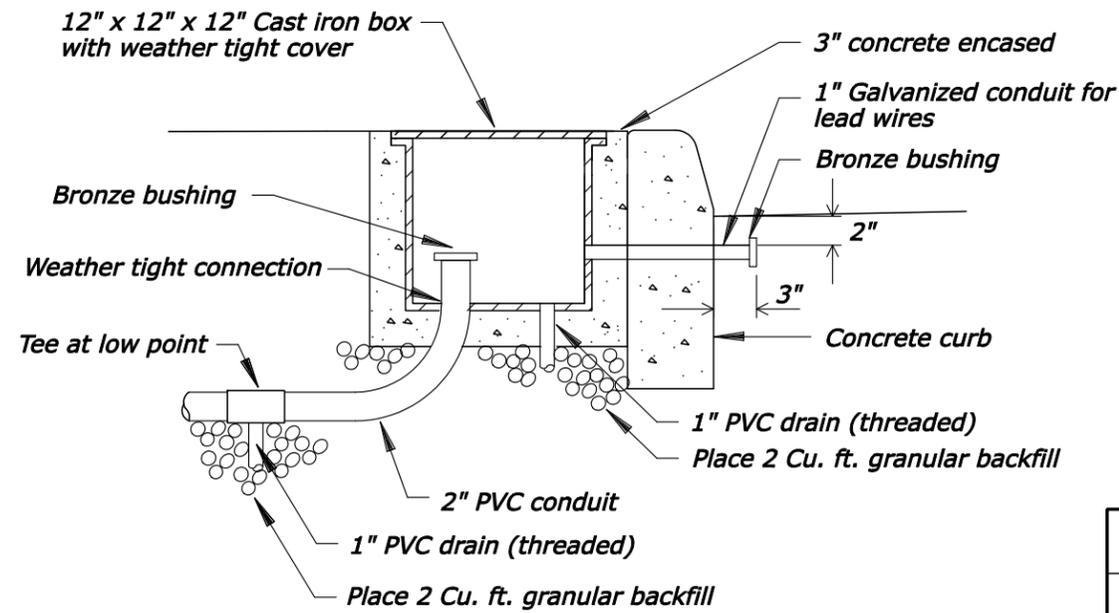
Provide diagonal cuts such that slot is full depth at turn points



SAW CUT LAYOUT



SPLICE BOX - WITHOUT CURB



SPLICE BOX - WITH CURB

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

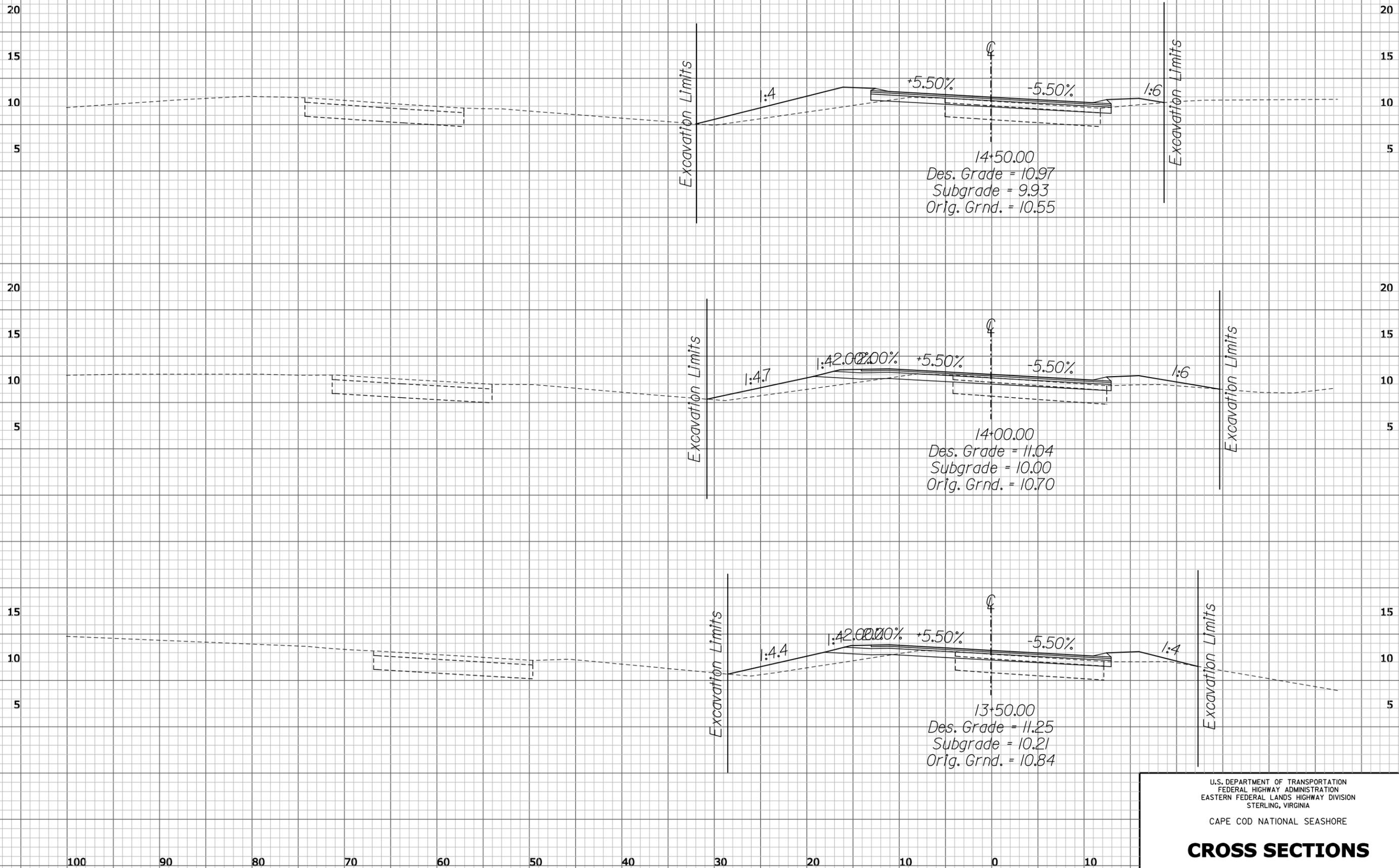
LOOP DETECTORS

REVISED: 12/07 from E636-01

DETAIL
E636-A

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NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T4



\$\$\$DATE\$\$\$ \$TIMES\$\$\$
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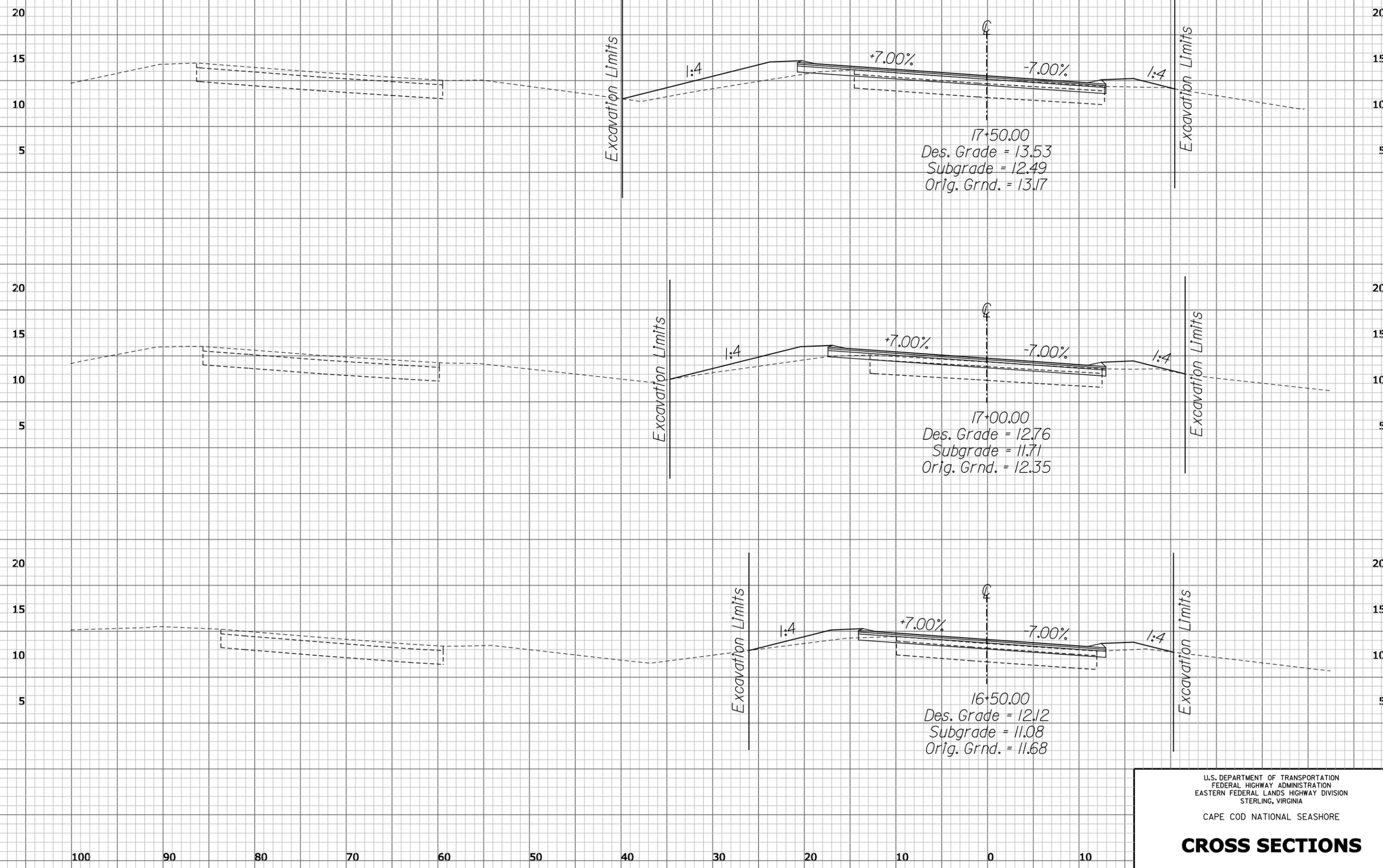
U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
 13+50.00 TO 14+50.00

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T6



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

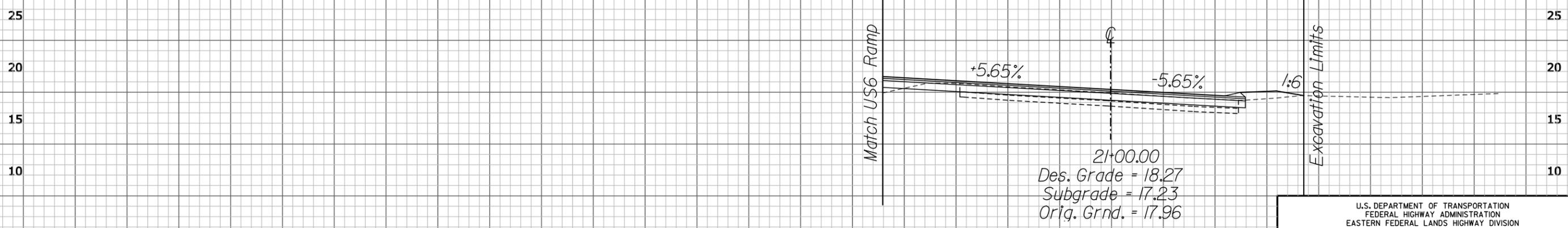
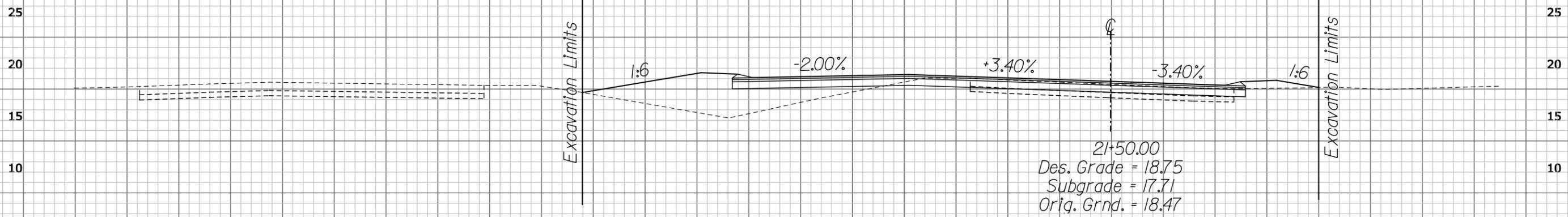
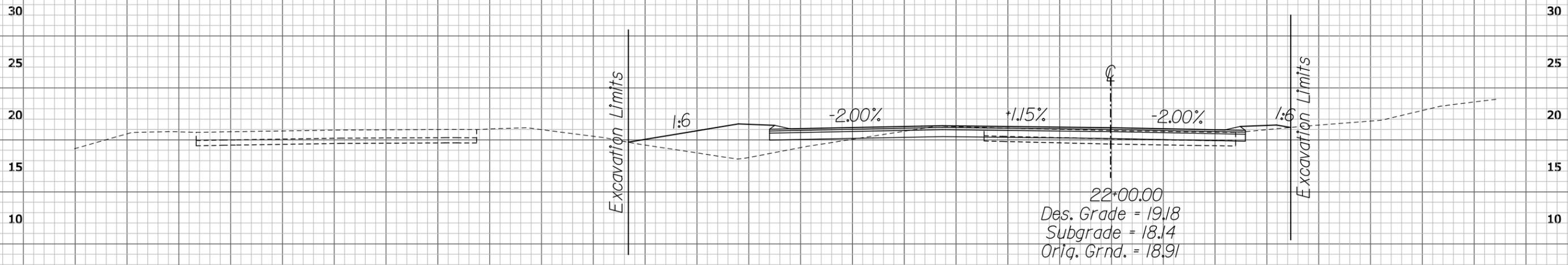
CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
16+50.00 TO 17+50.00

\$\$\$\$\$DATE\$\$\$\$\$ \$TIMES\$ \$\$\$\$DGN\$\$\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T9



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

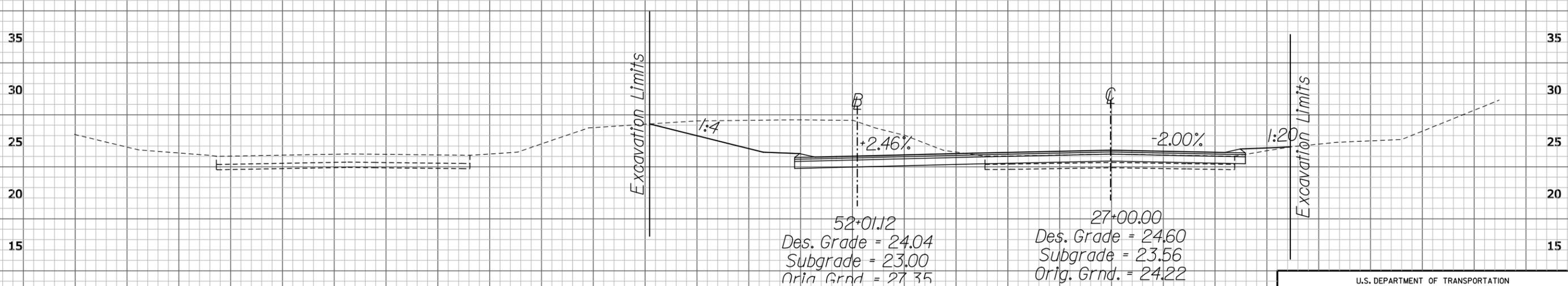
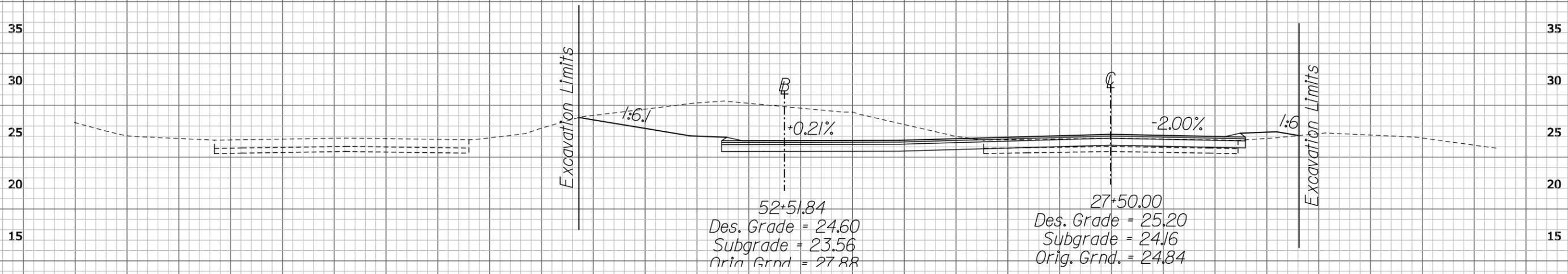
CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
 21+00.00 TO 22+00.00

\$\$\$DATE\$\$\$ \$TIMES
 \$\$\$DGN\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T14



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

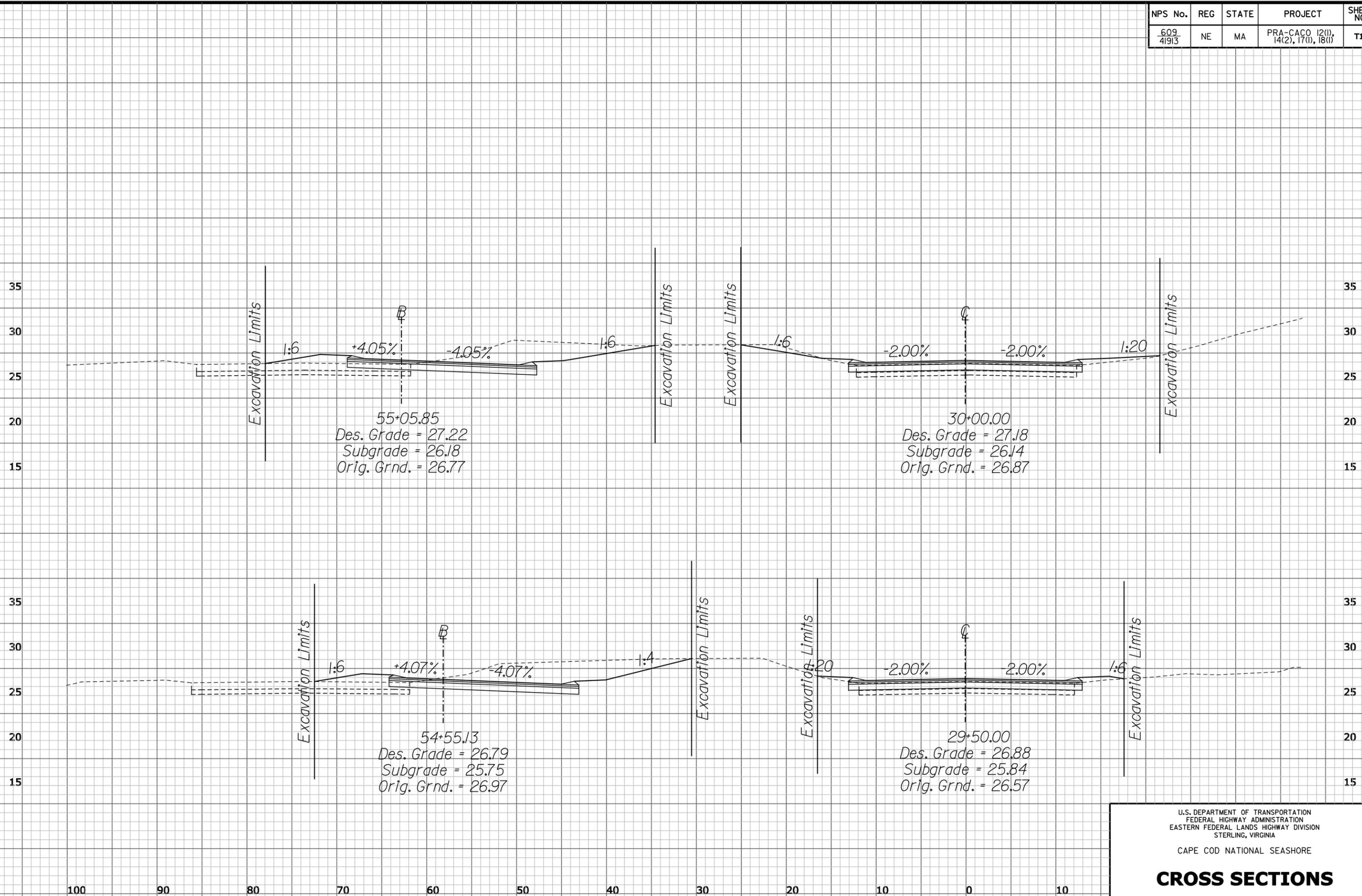
CROSS SECTIONS

US ROUTE 6
 27+00.00 TO 27+50.00

\$\$\$DATE\$\$\$ \$TIMES
 \$\$\$DGN\$\$\$

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T16

\$\$\$DATE\$\$\$ \$TIMES\$\$\$



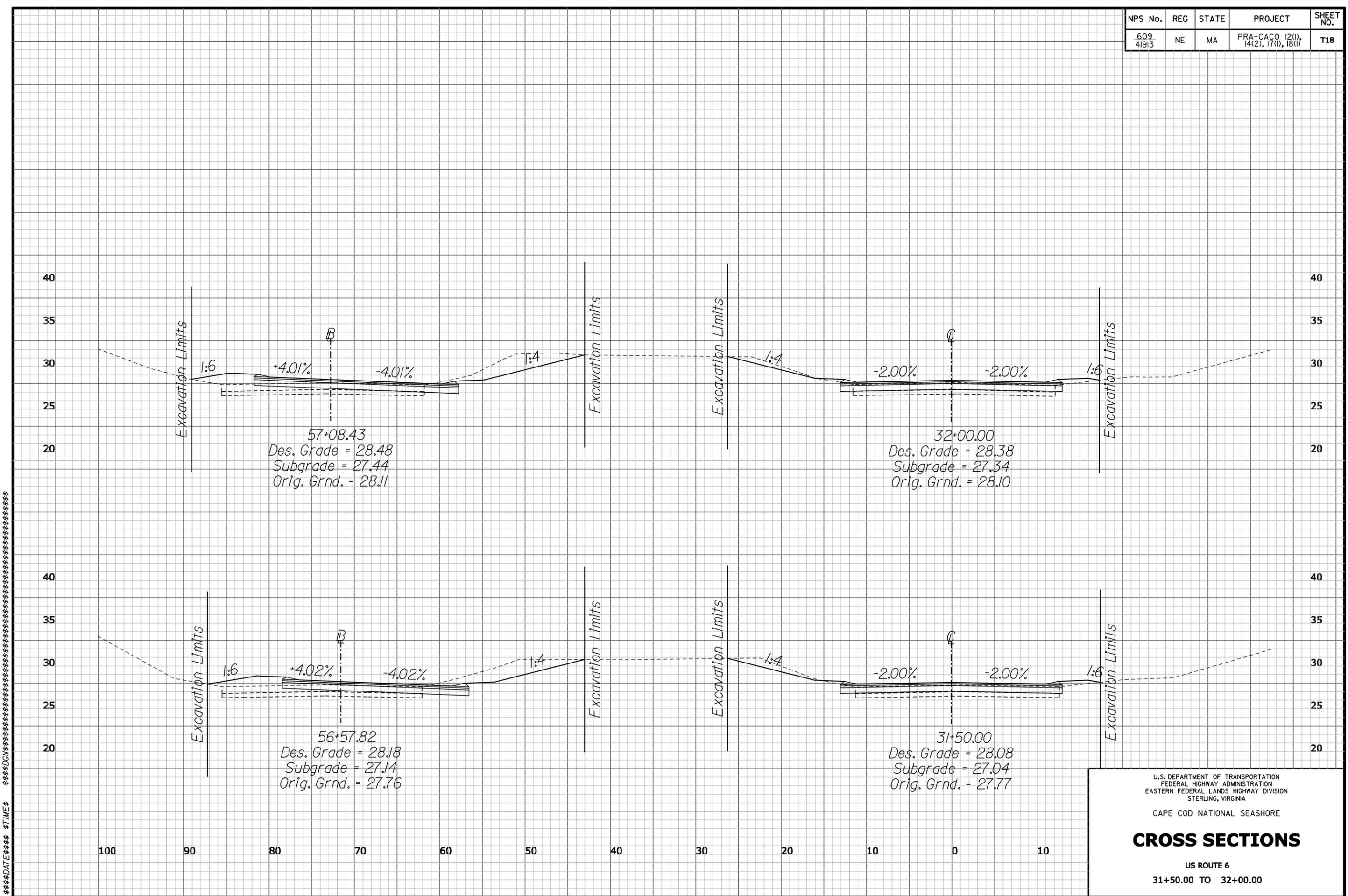
U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
 29+50.00 TO 30+00.00

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T18



\$\$\$DATE\$\$\$ \$TIMES \$\$\$DGN\$\$\$

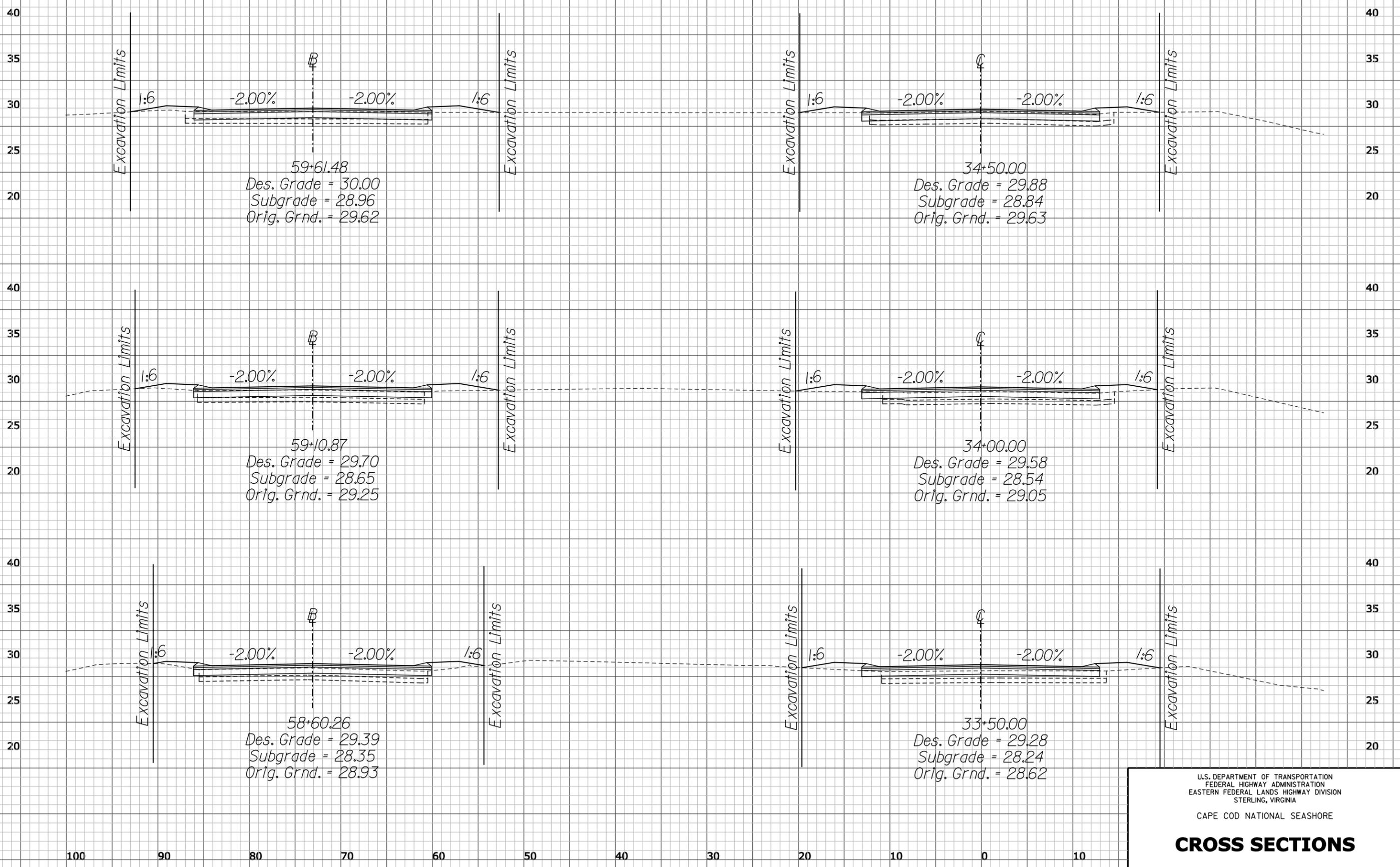
U.S. DEPARTMENT OF TRANSPORTATION
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EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
31+50.00 TO 32+00.00

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T20



\$\$\$DATE\$\$\$ \$TIMES
 \$\$\$DGN\$\$\$
 \$\$\$DATE\$\$\$ \$TIMES

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 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 STERLING, VIRGINIA

CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
 33+50.00 TO 34+50.00

NPS No.	REG	STATE	PROJECT	SHEET NO.
609 41913	NE	MA	PRA-CACO 12(1), 14(2), 17(1), 18(1)	T23

\$\$\$DATE\$\$\$ \$TIMES \$\$\$DGN\$\$\$



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CAPE COD NATIONAL SEASHORE

CROSS SECTIONS

US ROUTE 6
 38+00.00 TO 38+00.00

