STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	1	50
	PROJECT FILE NO.	613129	

TITLE SHEET & INDEX

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

PLAN AND PROFILE OF

MILESTONE ROAD AT POLPIS ROAD

IN THE TOWN OF

NANTUCKET

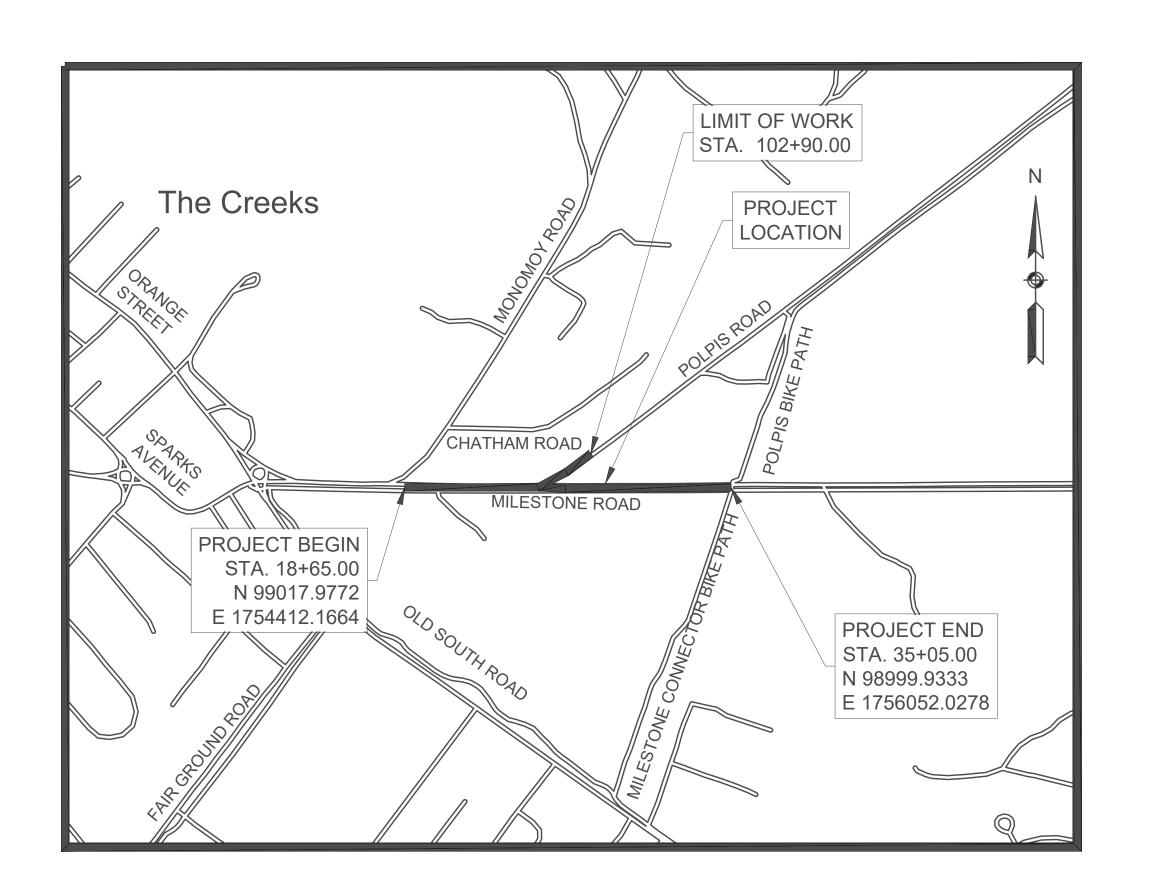
NANTUCKET COUNTY

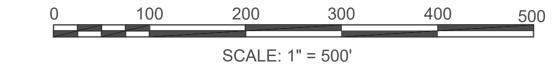
FEDERAL AID PROJECT NO.: HSI(VUS)-003S(749)X

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS. THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

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LENGTH OF PROJECT = 1,910.00 FEET = 0.36 MILES

DESIGN DESIGNATION

	MILESTONE ROAD	POLPIS ROAD
DESIGN SPEED	35 MPH	30 MPH
ADT (2023)	15,600	7,100
ADT (2043)	16,400	7,500
K	8.6%	8.7%
D	54% EB	50%
T (PEAK HOUR)	5.4%	4.7%
T (AVERAGE DAY)	4.8%	3.8%
DHV	1,350	620
DDHV	730	310
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL

Wilmington, MA 01887



Carrie Lavallee, Digitally signed by Carrie Lavallee, P.E.

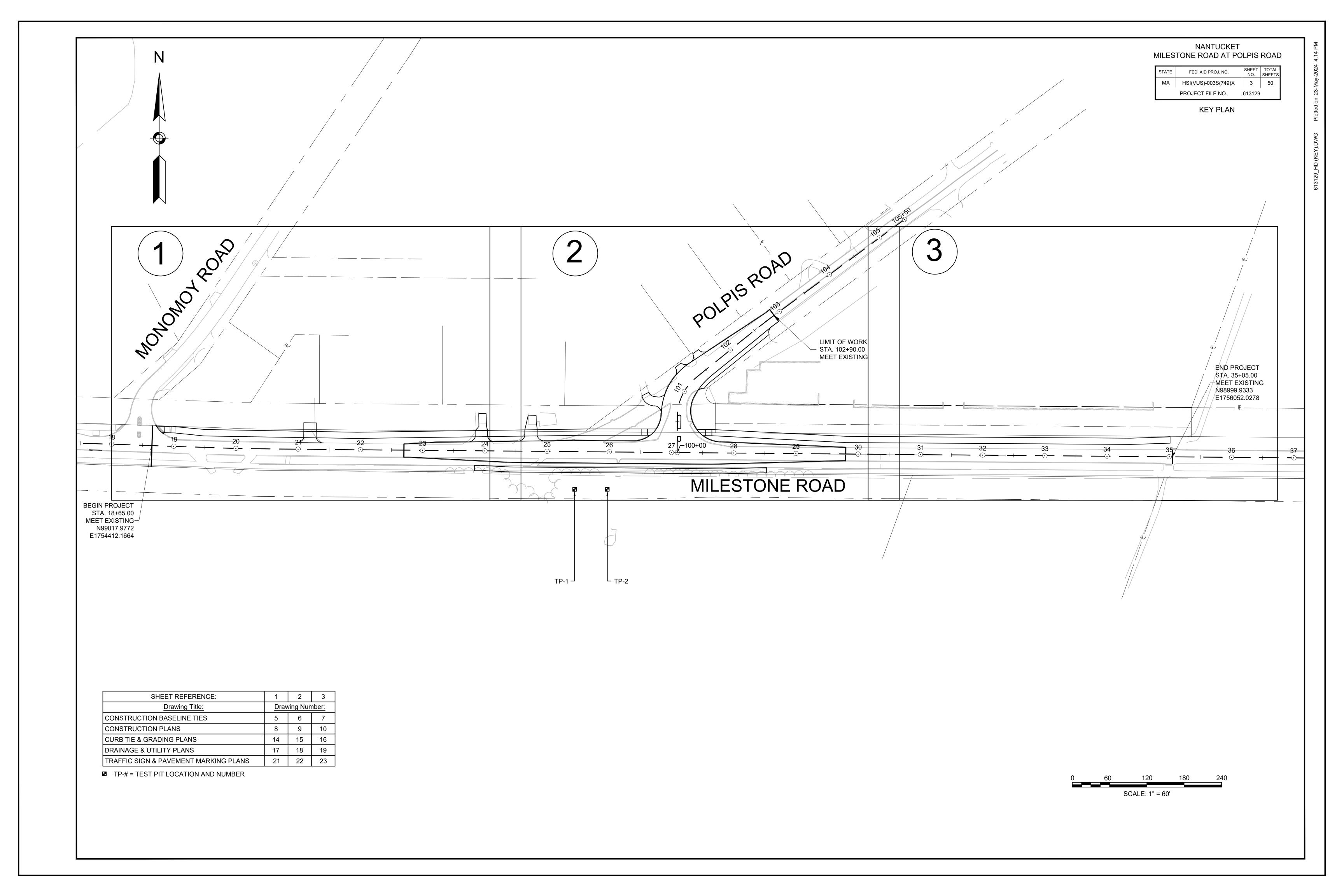
P.E. Date: 2024.06.12 09:55:58 -04'00' 06/12/2024

CHIEF ENGINEER, P.E.

DATE

AL TS			

GENERAL S'	YMBOLS				GENE	RAL NOTES				NANTUCKET MILESTONE ROAD AT POLPIS ROAD
EXISTING	PROPOSED	DESCRIPTION			1. TOP	OGRAPHICAL INFORMATION WAS PROVIDED BY MA	ASSDOT, AUGUST 20	017 (508-824-6633).		
☐ JB	JB (JERSEY BARRIER			SUPI	PLEMENTAL SURVEY WAS PROVIDED BY GREENMA	AN-PEDERSEN, INC.	JANUARY 2018, MARCH 2021, APRIL 2023, & OCTOBER 2	2023.	STATE FED. AID PROJ. NO. SHEET NO. SHEETS
⊞⊕⊞св	СВ СВ	CATCH BASIN			VER	TICAL DATUM IS BASED ON NAVD88. HORIZONTAL I	DATUM IS BASED OF	N MA ISLAND ZONE NAD83 (2011).		MA HSI(VUS)-003S(749)X 2 50
	<u> </u>	CATCH BASIN CURB INLET					_	SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT		PROJECT FILE NO. 613129
♥ FP G GP	♥ FP G GP	FLAG POLE						CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE EXACT LOCATIO		LEGEND & ABBREVIATIONS
□ MB	□ MB	GAS PUMP MAIL BOX				•		SE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES W ACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND		ELOLIND & ADDITEVIATIONS
		POST SQUARE				ITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) A			_	
0	0	POST CIRCULAR			3. WHE	ERE AN EXISTING UNDERGROUND UTILITY IS FOUNI	D TO CONFLICT WIT	TH THE PROPOSED WORK, THE LOCATION, ELEVATION	AND SIZE OF TH	HE UTILITY SHALL BE ACCURATELY
⊕ WELL	⊕ WELL	WELL						TION FURNISHED TO THE ENGINEER FOR RESOLUTION		
- EHH	EHH	ELECTRIC HANDHOLE			4. THE	CONTRACTOR SHALL MAKE ALL ARRANGEMENTS I	FOR THE ALTERATION	ON AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE	AND ANY OTHE	ER PRIVATE UTILITIES BY THE UTILITY
\circ	0	FENCE GATE POST				IPANIES.			7	
O GG	O GG	GAS GATE			5 ARE	AS OUTSIDE THE LIMITS OF PROPOSED WORK DIS	TURBED BY THE CO	NTRACTOR'S OPERATIONS SHALL BE RESTORED BY TH	HE CONTRACTO	OR TO THEIR ORIGINAL CONDITION AT THE
⊕ BHL # ⊕ MW #	◆ BHL #	BORING HOLE MONITORING WELL				ITRACTOR'S EXPENSE.				
TP #	Ψ 10100 # ■ TP #	TEST PIT			6. THE	TERM "PROPOSED" (PROP.) MEANS WORK TO BE O	CONSTRUCTED USIN	NG NEW MATERIALS, OR, WHERE APPLICABLE, RE-USIN	IG EXISTING MA	TERIALS IDENTIFIED AS "REMOVE & RESET"
φ "	φ	HYDRANT			(R&R	,		, ,		
*	*	LIGHT POLE			7. ALL	EXISTING SIGNS WITHIN THE PROJECT LIMITS SHA	LL BE RETAINED UN	NLESS NOTED OTHERWISE.		
□ CO.BD.		COUNTY BOUND			0 111	PROPOSED PAVEMENT MARKINGS SHALL BE THER				
	_	GPS POINT								
©	©	CABLE MANHOLE				EXISTING [STATE, COUNTY, CITY AND TOWN] LOCA ABLISHED FROM AVAILABLE INFORMATION AND TH		BEEN ESTABLISHED BY CADASTRAL SURVEY AND FOUN	ID MONUMENTA	ATION. PRIVATE PROPERTY LINES HAVE BEEN
(D)	(b)	DRAINAGE MANHOLE								
E	(E)	ELECTRIC MANHOLE GAS MANHOLE				,		V SURFACE PAVEMENT AND EXISTING SURFACE PAVEM	MENT TO REMAIN	N SHALL BE COATED WITH A HOT POURED
(M)	(M)	MISC MANHOLE			RUBI	BERIZED ASPHALT ADHESIVE MEETING THE REQUI	REMENTS OF ITEM	453.		
<u> </u>	<u> </u>	SEWER MANHOLE						M BORROW PLACED AND SEEDED. THE LOAM BORROW	/ SHALL HAVE A	MINIMUM DEPTH OF 4 INCHES AND SHALL BE
T	Ō	TELEPHONE MANHOLE				CED FLUSH WITH THE TOP OF THE ADJACENT CURI				
W	w	WATER MANHOLE			12. THE	LIMIT OF WORK AREA SHALL BE THE STREET RIGH	IT OF WAY UNLESS	SHOWN OTHERWISE.		
■ MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND				,	ELEVATIONS OF EX	KISTING UTILITIES IN THOSE AREAS ARE TO BE VERIFIE	D. THE ENGINE	ER IS TO BE NOTIFIED IMMEDIATELY SHOULD
□ MON		MONUMENT OTONE BOUND			ANY	DISCREPANCIES OCCUR.				
□ SB ■ TB		STONE BOUND TOWN OR CITY BOUND			14. ALL	CASTINGS SHALL BE SET FLUSH WITH FINISHED G	RADE.			
_		TRAVERSE OR TRIANGULATION STATION			15 ALL	PUBLICLY OWNED GATE BOXES SERVICE BOXES I	MANHOLE FRAMES	AND COVERS SHALL BE ADJUSTED TO GRADE BY THE	CONTRACTOR	
→ TPL or GUY	→ TPL or GUY					,				
o HTP		TRANSMISSION POLE			16. ALL	NEW SIDEWALKS AND DRIVEWAY GRADES SHALL I	MATCH EXISTING GF	RADES AT BACK OF SIDEWALK LINE UNLESS SHOWN O	THERWISE ON T	THE PLANS AND CROSS SECTIONS.
-&- UFB	_ ბ _ UFB	UTILITY POLE W/ FIREBOX			17. THE	CONTRACTOR SHALL TAKE EVERY PRECAUTION T	O PROTECT ALL EX	ISTING TREES AND ROOTS THAT ARE NOT DESIGNATED	D FOR REMOVA	L.
-∳- UPDL	-∲- UPDL	UTILITY POLE WITH DOUBLE LIGHT			18. CON	ITRACTOR TO CONTACT ENGINEER PRIOR TO INSTA	ALLATION OF BOUN	IDS FOR FINAL LOCATIONS.		
-6- ULT	-&- ULT	UTILITY POLE W / 1 LIGHT			10 DDAI	INIAGE ELEVATIONS ARE PROVIDED EOR DESIGN R	HDDOSES ONLY TH	HE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOC	ATIONS OF EVIS	STING LITH ITIES WHICH MAY CONELLOT WITH
-0- UPL	UPL	UTILITY POLE						O WILL BE MADE AS APPROVED OR DIRECTED BY THE E		
•SIZE & TYPE		BUSH TREE						ALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJU		INE & GRADE UP TO A DEPTH OF 5' SHALL BE
SIZE & TIFE		STUMP			INCL	UDED IN THE COST OF THE PIPE. PIPE EXCAVATION	ON GREATER THAN 5	5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION	l .	
		SWAMP / MARSH								
• WG	• WG	WATER GATE					GENERAL .	ABBREVIATIONS		
WGPM	WGPM	WATER GATE PARKING METER	AADT	ANNUAL AVERAGE DAILY TRAFFIC	DIP	DUCTILE IRON PIPE	GENERAL NIC	ABBREVIATIONS NOT IN CONTRACT	SMH	SEWER MANHOLE
	• PM		AADT ABAN	ANNUAL AVERAGE DAILY TRAFFIC ABANDON	DIP DW	DUCTILE IRON PIPE STEADY DON'T WALK - PORTLAND ORANGE	NIC		SMH ST	SEWER MANHOLE STREET
• PM	• PM — — — —	PARKING METER — OVERHEAD CABLE/WIRE — CURBING						NOT IN CONTRACT	SMH ST STA	
• PM — — — — ————————————————————————————	• PM	PARKING METER — OVERHEAD CABLE/WIRE — CURBING — CONTOURS (ON-THE-GROUND SURVEY DATA)	ABAN	ABANDON	DW DWY	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY	NIC NO.	NOT IN CONTRACT NUMBER	ST	STREET
• PM ————————————————————————————————————	• PM	PARKING METER — OVERHEAD CABLE/WIRE — CURBING — CONTOURS (ON-THE-GROUND SURVEY DATA) — CONTOURS (PHOTOGRAMMETRIC DATA)	ABAN ADJ APPROX.	ABANDON ADJUST APPROXIMATE	DW DWY ELEV (or EL.)	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION	NIC NO. PC PCC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE	ST STA SSD	STREET STATION STOPPING SIGHT DISTANCE
• PM ————————————————————————————————————	• PM	PARKING METER — OVERHEAD CABLE/WIRE — CURBING — CONTOURS (ON-THE-GROUND SURVEY DATA) — CONTOURS (PHOTOGRAMMETRIC DATA) — UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	ABAN ADJ APPROX. A.C.	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE	DWY DWY ELEV (or EL.) EMB	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT	NIC NO. PC PCC P.G.L.	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE	ST STA SSD SHLO	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE
• PM ————————————————————————————————————	• PM	PARKING METER — OVERHEAD CABLE/WIRE = CURBING — CONTOURS (ON-THE-GROUND SURVEY DATA) — CONTOURS (PHOTOGRAMMETRIC DATA) — UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) — UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	ABAN ADJ APPROX. A.C. ACCM PIPE	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE	DWY DWY ELEV (or EL.) EMB EOP	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT	NIC NO. PC PCC P.G.L. PI	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION	ST STA SSD	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK
• PM ————————————————————————————————————	• PM	PARKING METER — OVERHEAD CABLE/WIRE — CURBING — CONTOURS (ON-THE-GROUND SURVEY DATA) — CONTOURS (PHOTOGRAMMETRIC DATA) — UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	ABAN ADJ APPROX. A.C. ACCM PIPE BIT.	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS	DWY ELEV (or EL.) EMB EOP EXIST (or EX)	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING	NIC NO. PC PCC P.G.L. PI POC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE	ST STA SSD SHLO SW T	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK %
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• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&G	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE	NIC NO. PC PCC P.G.L. PI POC POT PRC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT	ST STA SSD SHLO SW T TAN TEMP TC	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB
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• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF TANGENCY	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR.	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C FAG FDN. FLDSTN GAR GD GG	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL COMPOUND CURVATURE	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL
• PM ————————————————————————————————————	• PM ————————————————————————————————————	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD GG GI	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL COMPOUND CURVATURE POINT OF VERTICAL INTERSECTION	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD GG GI GIP	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL COMPOUND CURVATURE	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD GG GI	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL COMPOUND CURVATURE POINT OF VERTICAL INTERSECTION	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY BANK OF RIVER OR STREAM	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN CATCH BASIN WITH CURB INLET	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD GG GI GIP	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI PVRC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC WCR	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI CC	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN CATCH BASIN WITH CURB INLET CEMENT CONCRETE	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD GG GI GIP GRAN	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI PVRC PVRC	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE POINT OF VERTICAL REVERSE CURVATURE POINT OF VERTICAL REVERSE CURVATURE	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC WCR WG	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP WATER GATE
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI CC CCM	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN CATCH BASIN WITH CURB INLET CEMENT CONCRETE CEMENT CONCRETE MASONRY	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&G FDN. FLDSTN GAR GD GG GI GIP GRAN GRAV	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRAVEL	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI PVRC PVRC PVT	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL COMPOUND CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE POINT OF VERTICAL TANGENCY PAVEMENT	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC WCR WG WIP	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP WATER GATE WROUGHT IRON PIPE
• PM ————————————————————————————————————	• PM	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) DATE OF THE POSTS GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER 200 FT RIVERFRONT BUFFER	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI CC CCM	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN CATCH BASIN WITH CURB INLET CEMENT CONCRETE MASONRY CEMENT	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&C F&G FDN. FLDSTN GAR GD GG GI GIP GRAN GRAV GRAV	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRAVEL GUARD	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI PVRC PVT PVRC PVT PVMT PWW	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL COMPOUND CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE POINT OF VERTICAL TANGENCY PAVEMENT PAVED WATER WAY	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC WCR WG WIP WM	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP WATER GATE WROUGHT IRON PIPE WATER METER/WATER MAIN
• PM ————————————————————————————————————	• PM ————————————————————————————————————	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER 200 FT RIVERFRONT BUFFER	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI CC CCM CEM CI	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN CATCH BASIN WITH CURB INLET CEMENT CONCRETE CEMENT CURB INLET	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&G FDN. FLDSTN GAR GD GG GI GIP GRAN GRAV GRAV GRD HDW	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI PVRC PVRC PVT PVMT PWW R	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY PAVEMENT PAVED WATER WAY RADIUS OF CURVATURE	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC WCR WG WIP WM	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP WATER GATE WROUGHT IRON PIPE WATER METER/WATER MAIN
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• PM	• PM ————————————————————————————————————	PARKING METER OVERHEAD CABLE/WIRE CURBING CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE HAY BALES/SILT FENCE/COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER 200 FT RIVERFRONT BUFFER STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT RAILROAD SIDELINE TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE	ABAN ADJ APPROX. A.C. ACCM PIPE BIT. BC BD. BL BLDG BM BO BOS BR. CB CBCI CC CCM CEM CIT CIF CIT CLF CL CMP CSP CO. CONC CONC CONT CONST CR GR	ABANDON ADJUST APPROXIMATE ASPHALT CONCRETE ASPHALT COATED CORRUGATED METAL PIPE BITUMINOUS BOTTOM OF CURB BOUND BASELINE BUILDING BENCHMARK BY OTHERS BOTTOM OF SLOPE BRIDGE CATCH BASIN CATCH BASIN WITH CURB INLET CEMENT CONCRETE CEMENT CONCRETE MASONRY CEMENT CURB INLET CAST IRON PIPE CHAIN LINK FENCE CENTERLINE CORRUGATED METAL PIPE COUNTY CONCRETE CONSTRUCTION CROWN GRADE	DWY ELEV (or EL.) EMB EOP EXIST (or EX) EXC F&C F&G FDN. FLDSTN GAR GD GG GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB	STEADY DON'T WALK - PORTLAND ORANGE DRIVEWAY ELEVATION EMBANKMENT EDGE OF PAVEMENT EXISTING EXCAVATION FRAME AND COVER FRAME AND GRATE FOUNDATION FIELDSTONE GARAGE GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX	NIC NO. PC PCC P.G.L. PI POC POT PRC PROJ PROP PSB PT PVC PVCC PVI PVRC PVT PVMT PWW R R&D RCP RD RDWY REM RET RET WALL ROW RR R&R	NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE PROJECT PROPOSED PLANTABLE SOIL BORROW POINT OF VERTICAL CURVATURE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE POINT OF VERTICAL TANGENCY PAVEMENT PAVED WATER WAY RADIUS OF CURVATURE REMOVE AND DISPOSE REINFORCED CONCRETE PIPE ROAD ROADWAY REMOVE RETAIN RETAINING WALL RIGHT OF WAY RAILROAD REMOVE AND RESET REMOVE AND RESET REMOVE AND RESET	ST STA SSD SHLO SW T TAN TEMP TC TOS TYP UP VAR VERT VC WCR WG WIP WM	STREET STATION STOPPING SIGHT DISTANCE STATE HIGHWAY LAYOUT LINE SIDEWALK TANGENT DISTANCE OF CURVE/TRUCK % TANGENT TEMPORARY TOP OF CURB TOP OF SLOPE TYPICAL UTILITY POLE VARIES VERTICAL VERTICAL CURVE WHEEL CHAIR RAMP WATER GATE WROUGHT IRON PIPE WATER METER/WATER MAIN



ATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
lΑ	HSI(VUS)-003S(749)X	4	50
	PROJECT FILE NO.	613129	

PAVEMENT NOTES

BASE:

TYPICAL SECTIONS

FULL DEPTH HMA CONSTRUCTION

SURFACE COURSE: 1½" SUPERPAVE SURFACE COURSE - 9.5 POLYMER (SSC-9.5-P) OVER

ASPHALT EMULSION FOR TACK COAT (RS-1h)

2 ¼" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)

SPHALT EMULSION FOR TACK COAT (KS-111)

3 1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

SUBBASE: 12" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

PAVEMENT STANDARD MILLING & STRUCTURAL HMA OVERLAY

PROPOSED RESURFACING: 1½" SUPERPAVE SURFACE COURSE - 9.5 POLYMER (SSC-9.5-P) OVER

ASPHALT EMULSION FOR TACK COAT (RS-1h)
2 ½" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

ASPHALT EMULSION FOR TACK COAT (RS-1h)

ASI HALI LINGLOIGIN I ON TACK COAT (NO-111)

SURFACE MILLING: 2" MIN. TO 4" MAX. PAVEMENT MILLING (TO MEET LINES AND GRADES

AND HMA QUALITY ASSURANCE)

FULL DEPTH HMA CONSTRUCTION LESS THAN 4 FEET

SURFACE COURSE: 1½" SUPERPAVE SURFACE COURSE - 9.5 POLYMER (SSC-9.5-P) OVER

ASPHALT EMULSION FOR TACK COAT (RS-1h)

2 1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)

BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 8" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

CEMENT CONCRETE PEDESTRIAN CURB RAMPS

SURFACE COURSE: 4" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B

HMA DRIVEWAYS AND SHARED USE PATHS

SURFACE COURSE: 1½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER

2½" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B

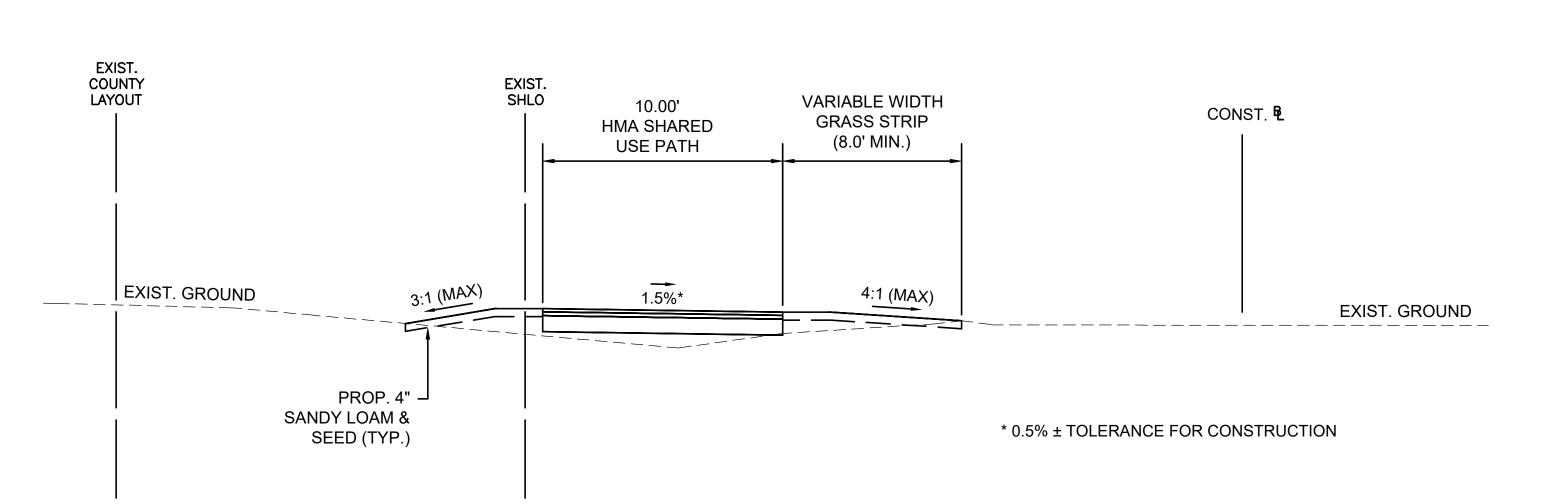
GENERAL NOTES

- 1. HMA, HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT AND HMA JOINT ADHESIVE AND PAVEMENT MILLING SHALL BE IN ACCORDANCE WITH SECTION 450 HMA PAVEMENT AND M3 ASPHALTIC MATERIALS SPECIFICATION.
- 2. THE PROPOSED HMA RESURFACING, BOTH SURFACE AND INTERMEDIATE COURSES, SHALL EXTEND ACROSS THE FULL DEPTH CONSTRUCTION TO MEET SECTION 450 AND PAVING OPERATIONS.
- 3. THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE EITHER AT INTERSECTIONS OR IN AREAS OF TRANSITION AND THEREFORE HAVE NOT BEEN SHOWN. THESE SECTIONS ARE:

STA. 18+65 TO STA. 18+95 MILESTONE ROAD STA. 22+70 TO STA. 24+75 MILESTONE ROAD STA. 27+50 TO STA. 29+80 MILESTONE ROAD STA. 35+00 TO STA. 35+05 MILESTONE ROAD STA. 100+00 TO STA. 100+45 POLPIS ROAD

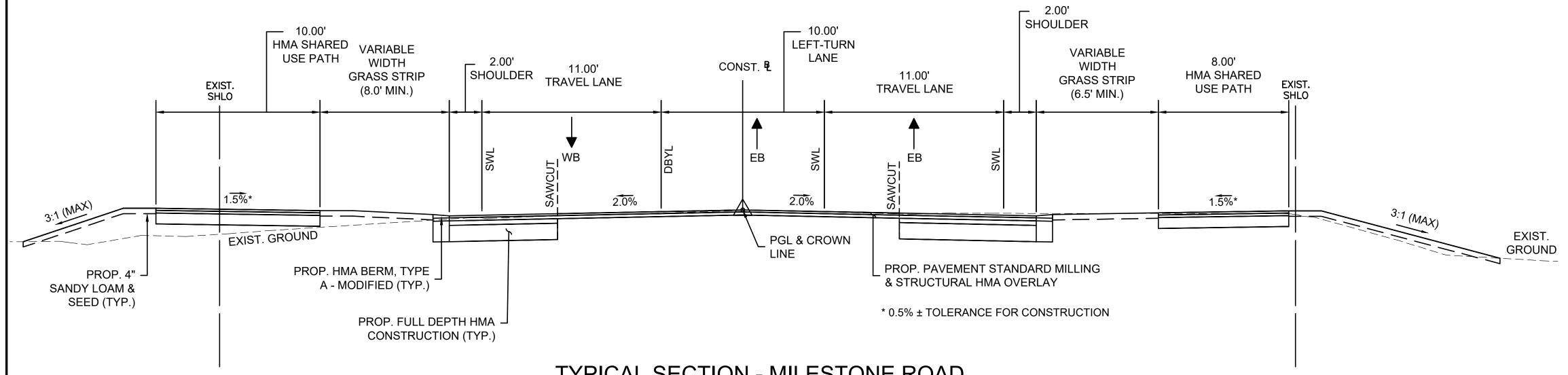
STA. 101+32 TO STA. 102+90 POLPIS ROAD

4. ASPHALT EMULSION FOR TACK COAT (RS-1h) SHALL BE APPLIED AT THE RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER NEW HMA SURFACES NOT OPENED TO TRAFFIC AS WELL AS OVER EXISTING TIGHT SMOOTH PAVEMENT. ON MILLED SURFACES, THE EMULSION APPLICATION RATE SHALL EQUAL 0.07 TO 0.09 GALLONS PER SQUARE YARD. ON NEW HMA PATCHES, THE EMULSION APPLICATION RATE SHALL EQUAL 0.06 TO 0.09 GALLONS PER SQUARE YARD.

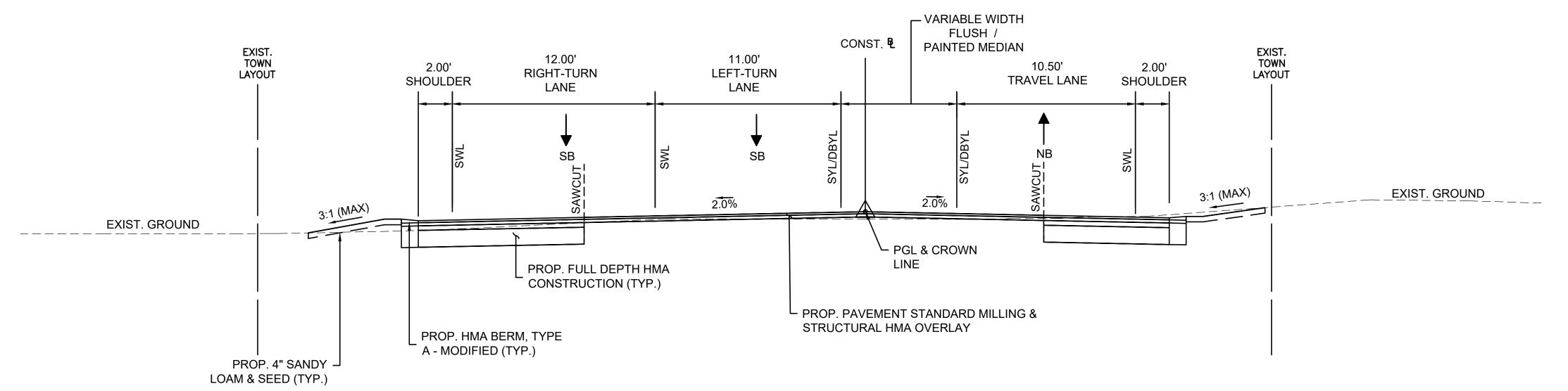


TYPICAL SECTION - MILESTONE ROAD SHARED USE PATH

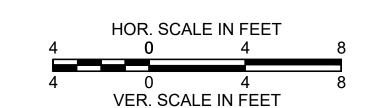
STA. 18+95 LT TO STA. 22+70 LT STA. 29+80 LT TO STA. 35+00 LT

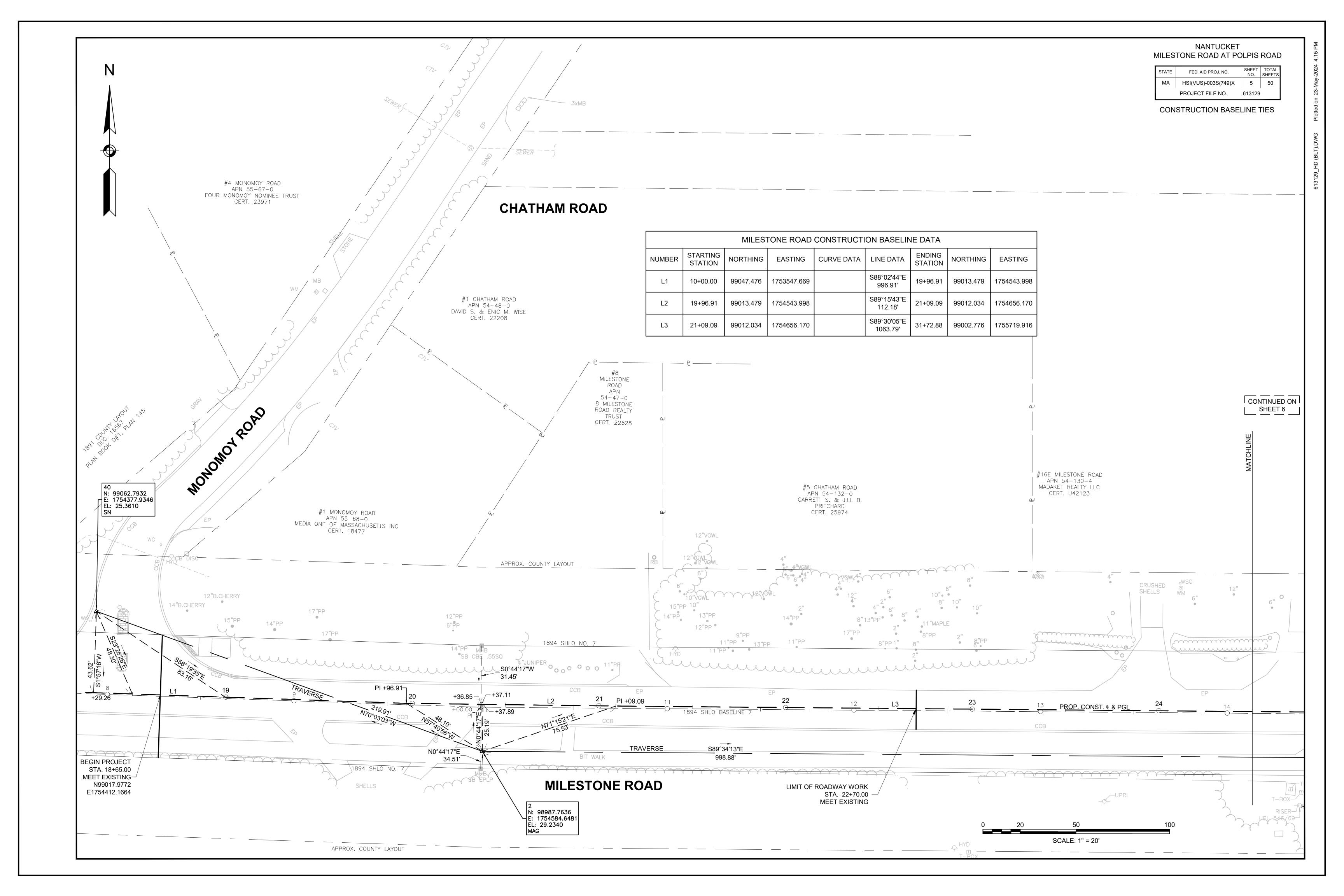


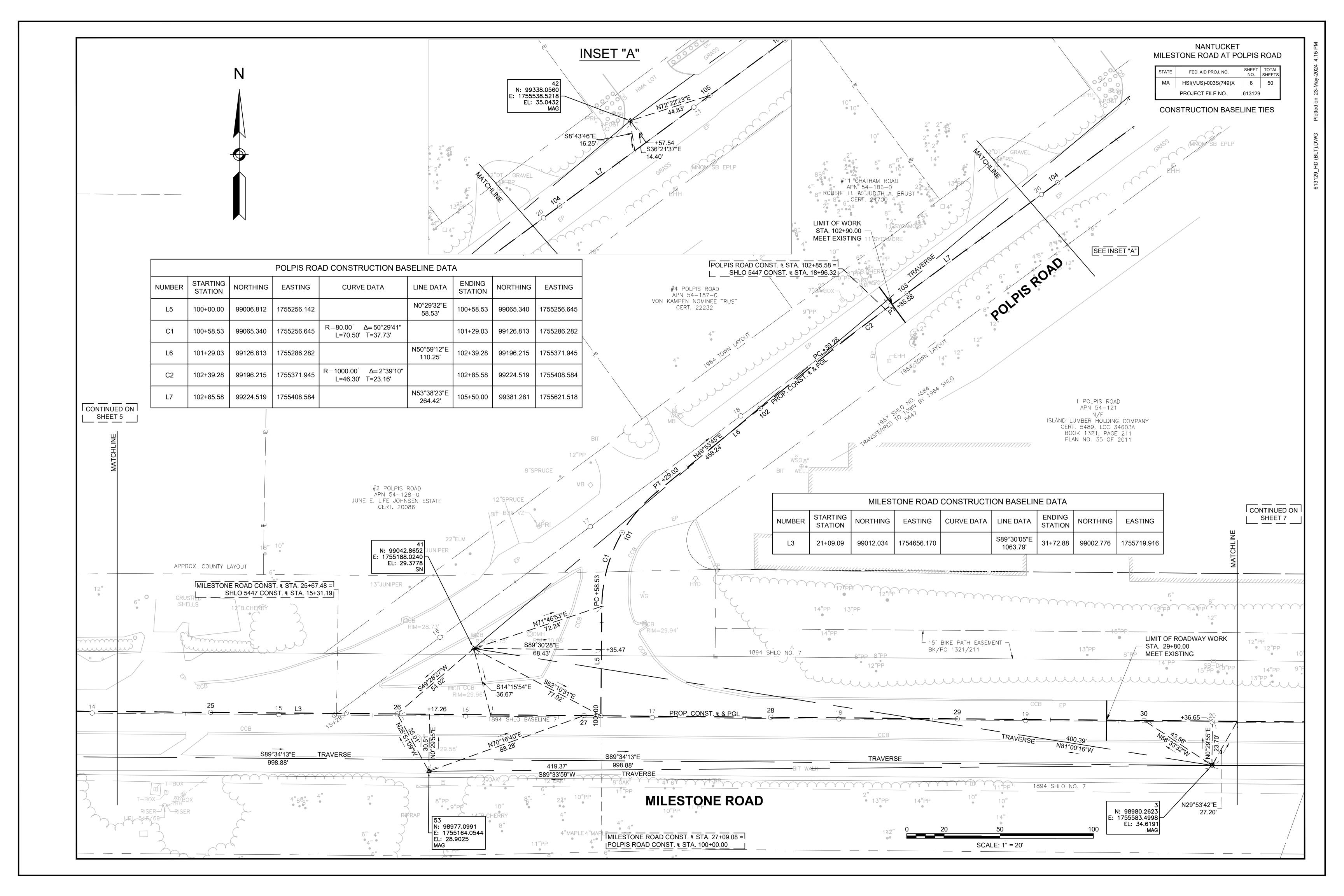
TYPICAL SECTION - MILESTONE ROAD
STA. 24+75 TO STA. 27+50

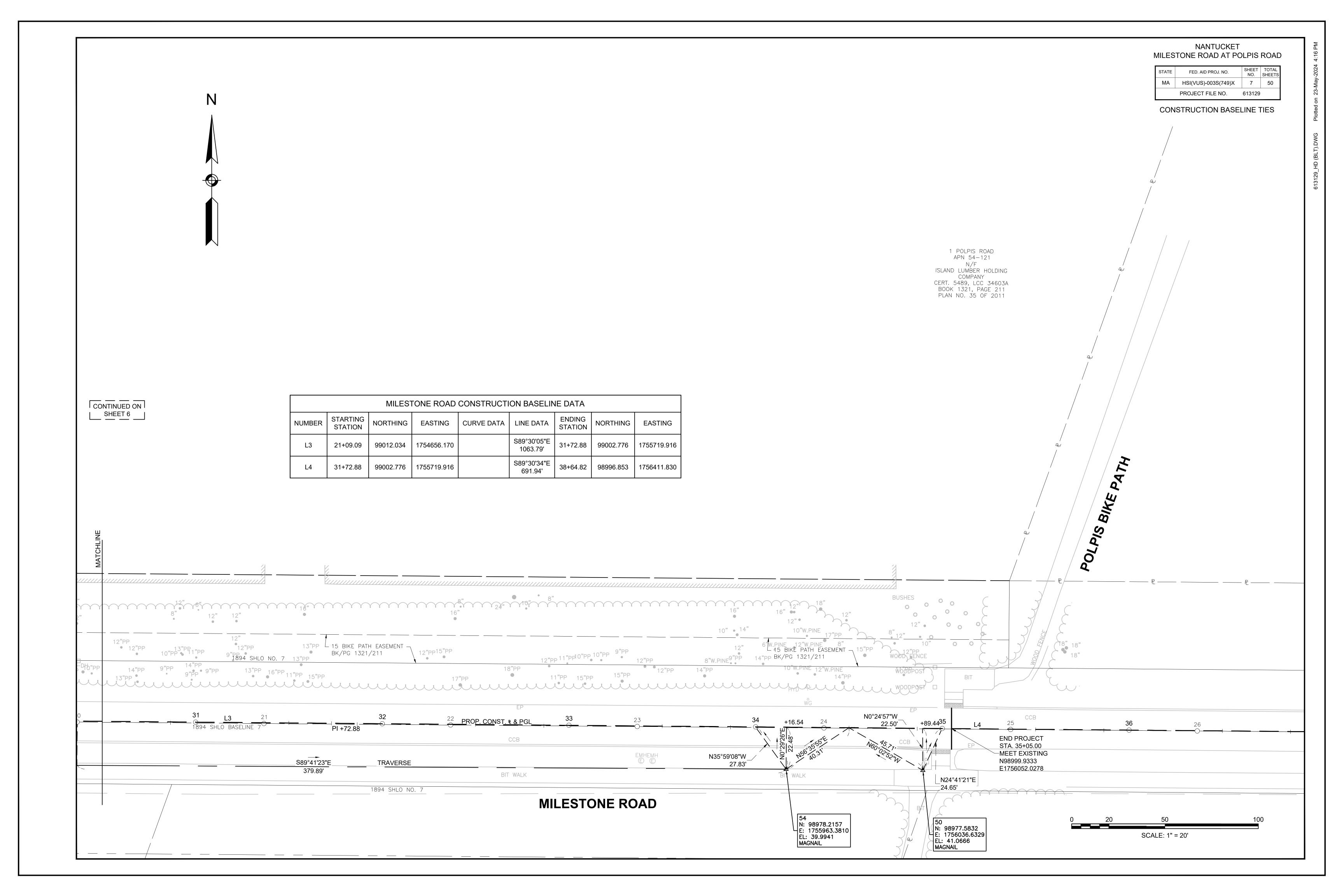


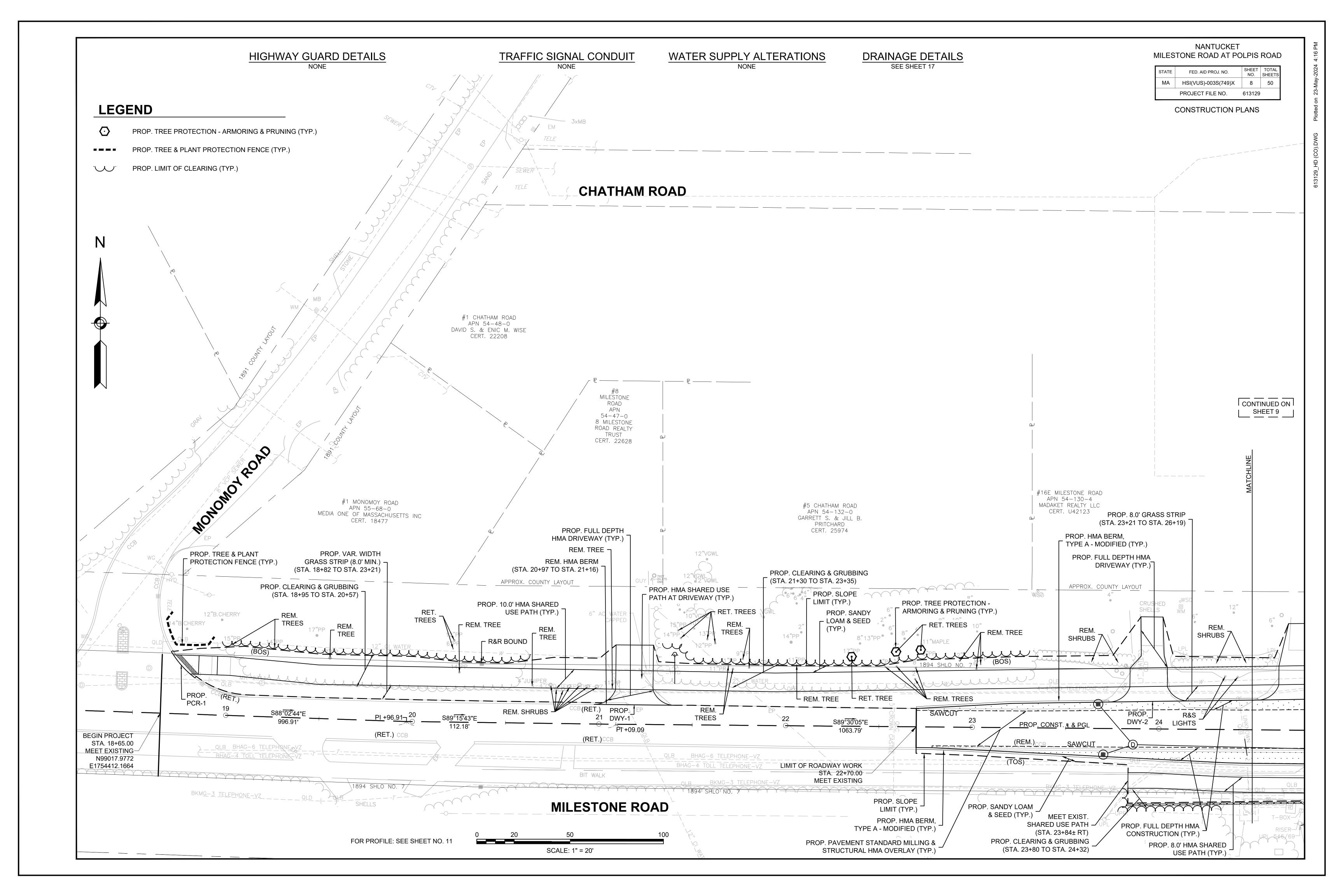
TYPICAL SECTION - POLPIS ROAD
STA. 100+45 TO STA. 101+30

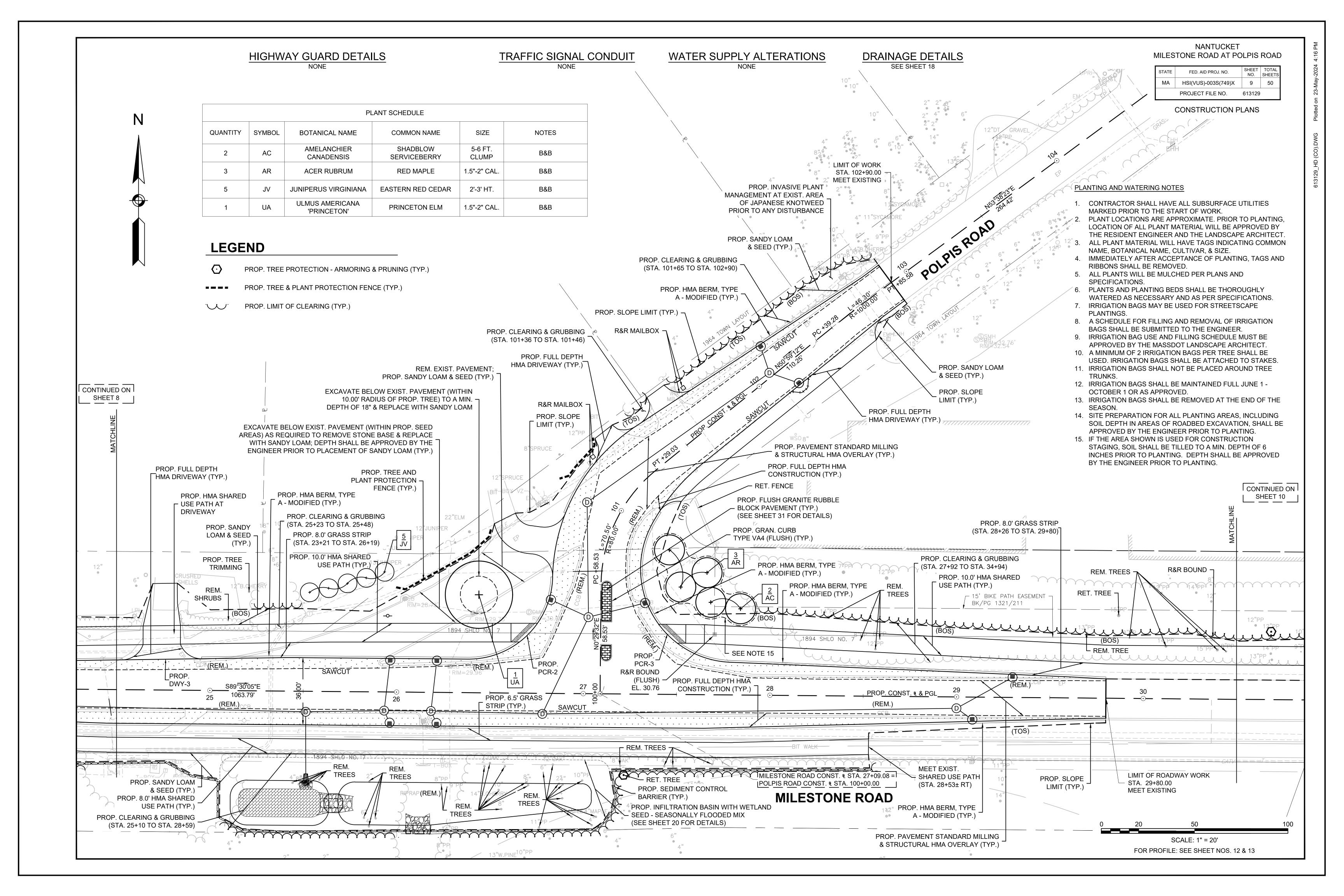


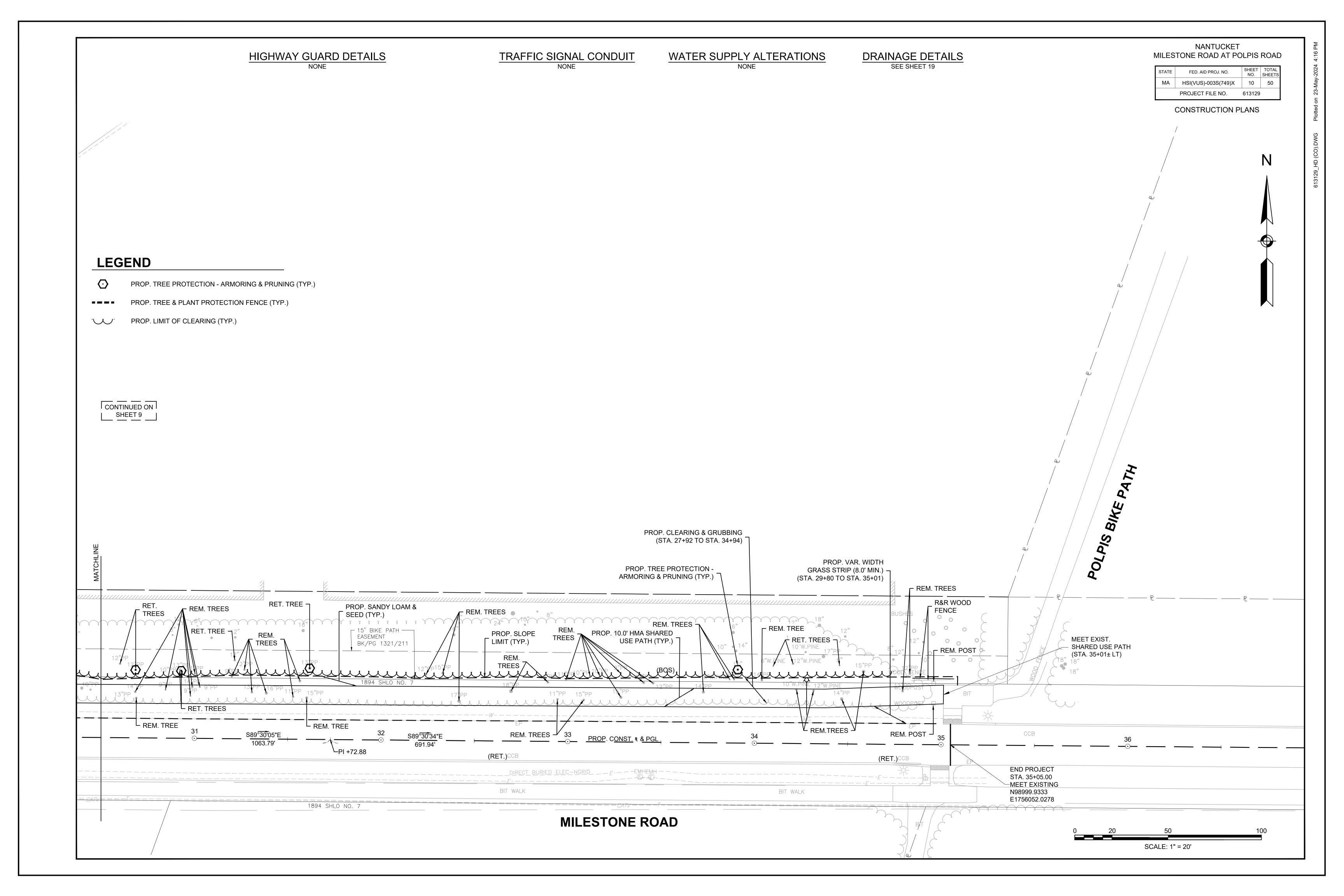








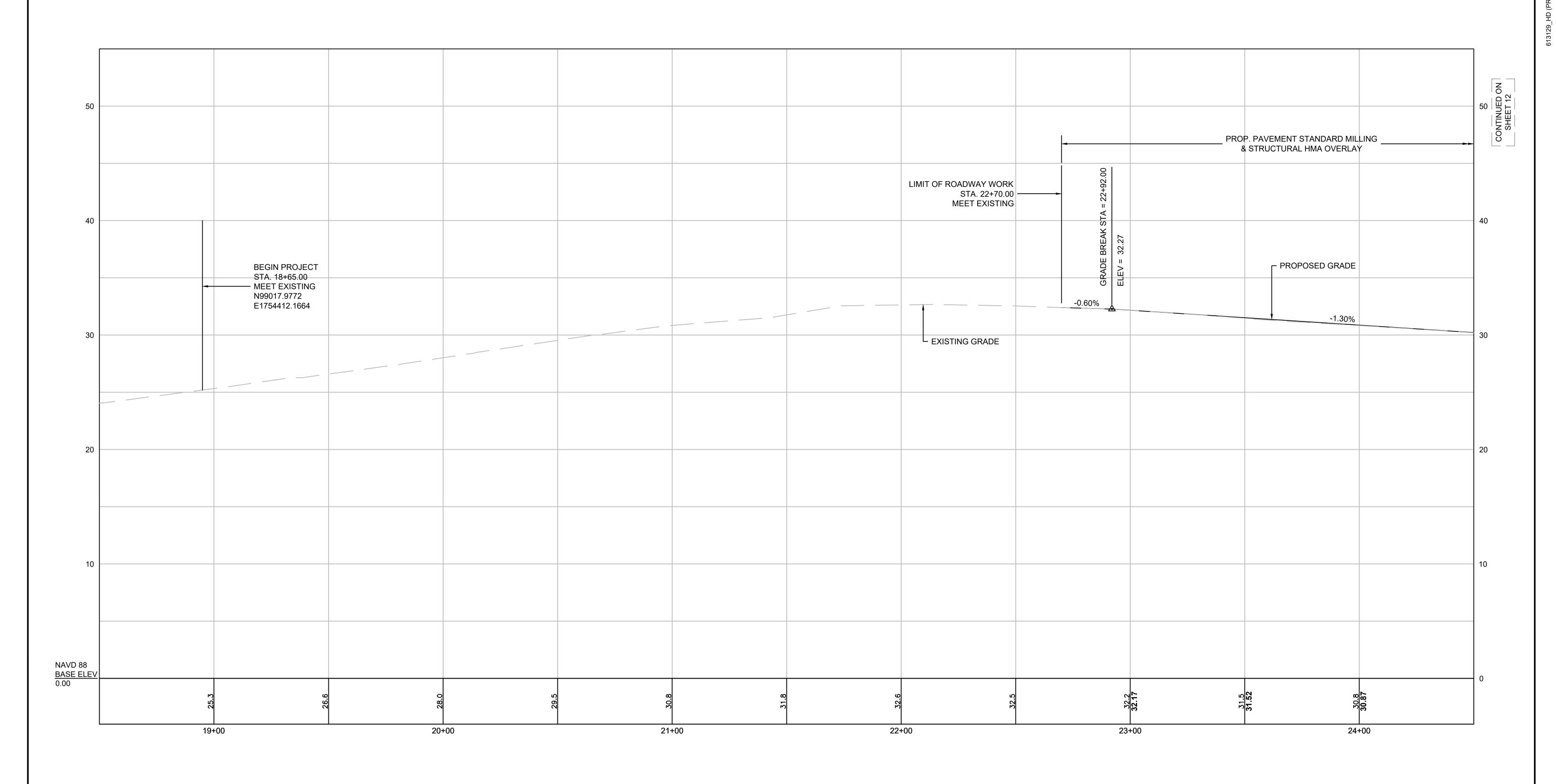




STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	11	50
	PROJECT FILE NO.	613129	

CONSTRUCTION PROFILES

MILESTONE ROAD



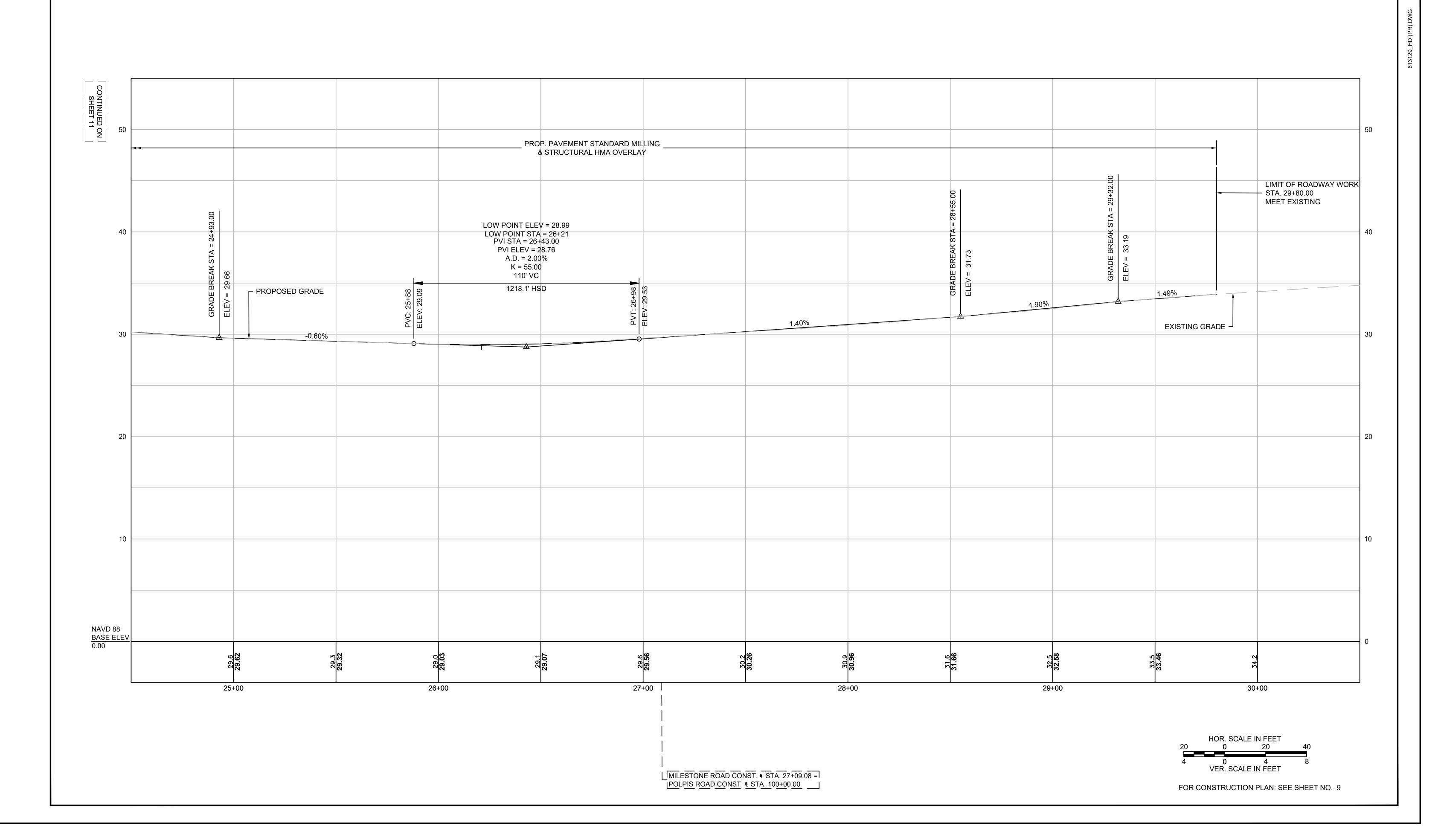


FOR CONSTRUCTION PLAN: SEE SHEET NO. 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	12	50
	PROJECT FILE NO.	613129	

CONSTRUCTION PROFILES

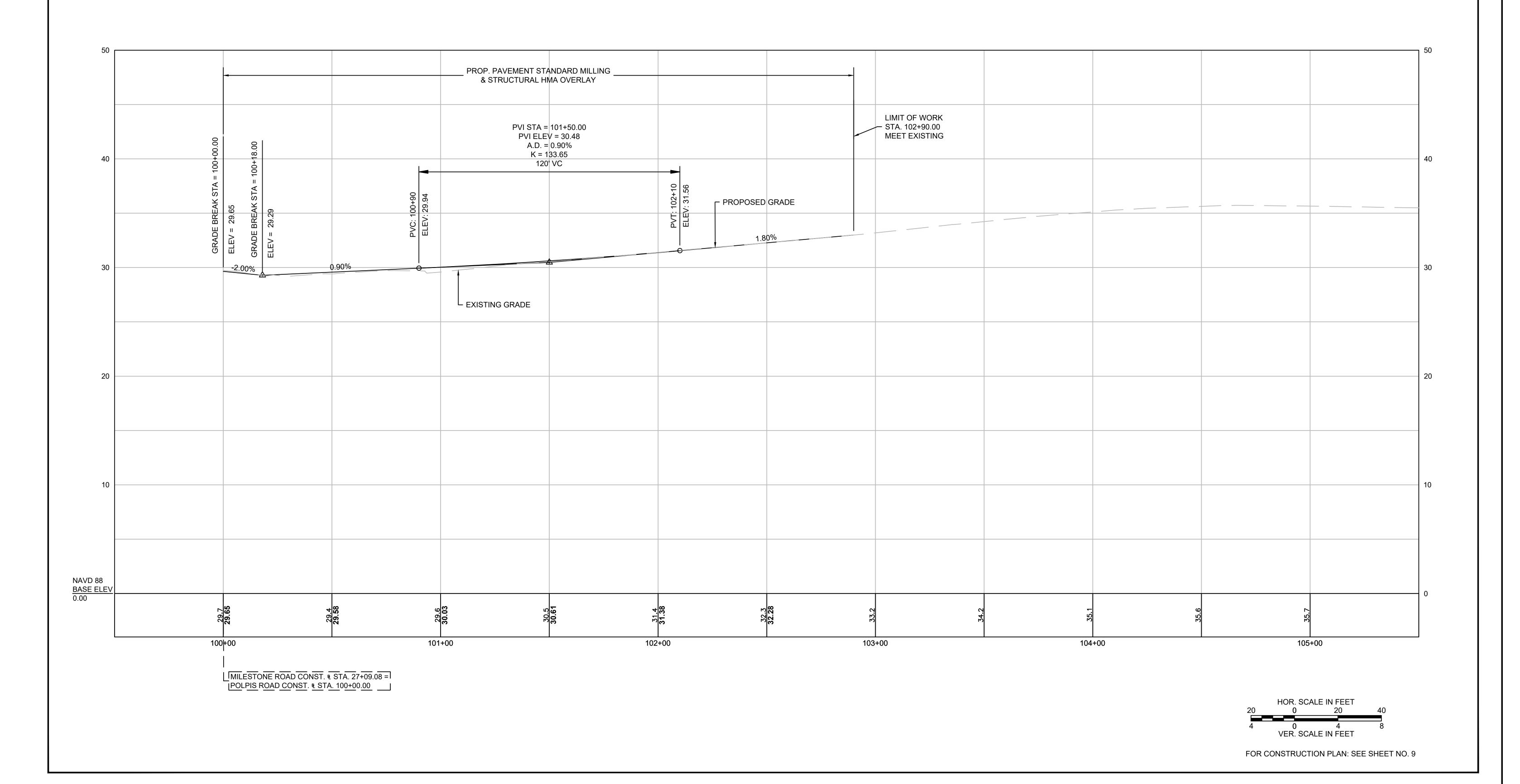
MILESTONE ROAD

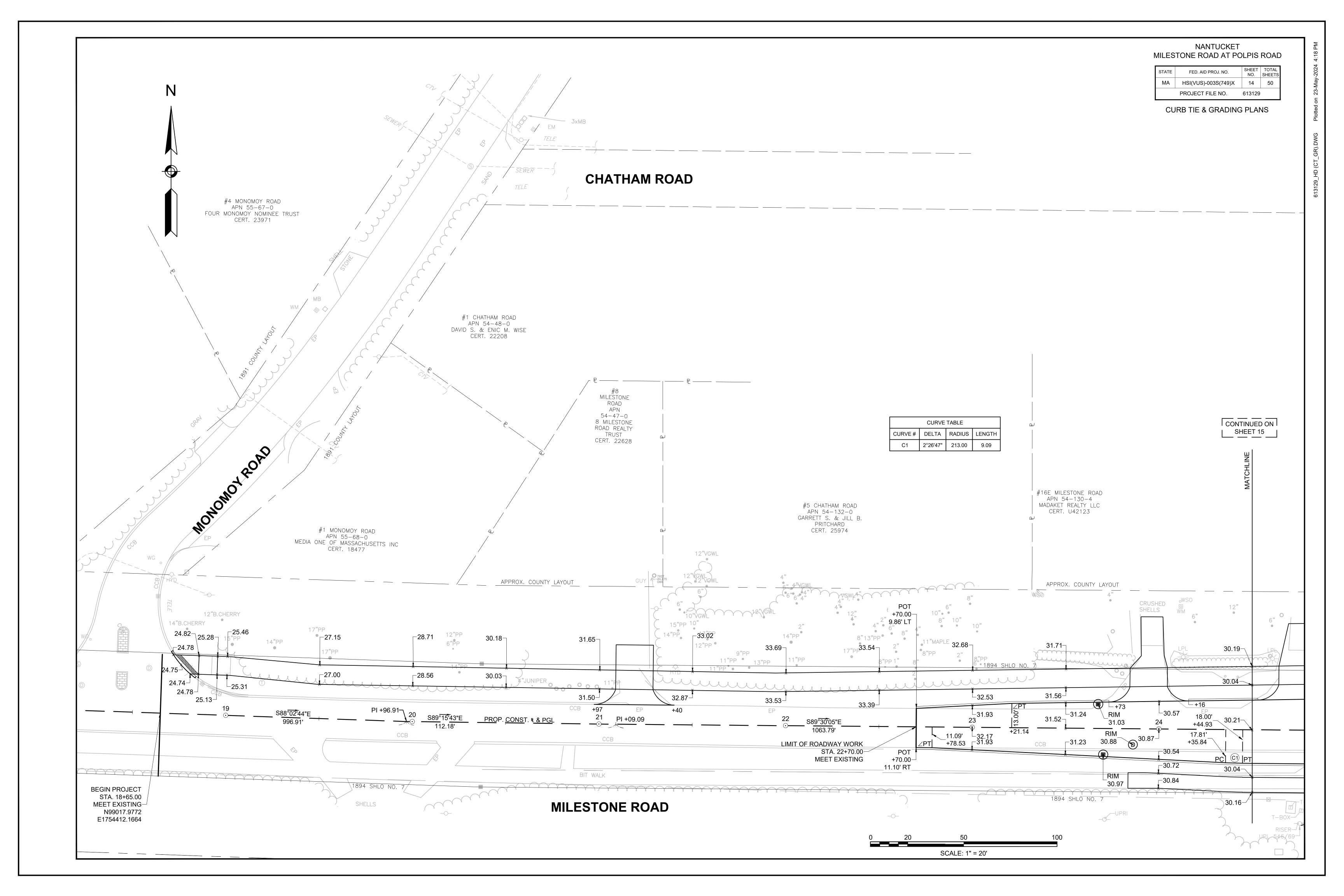


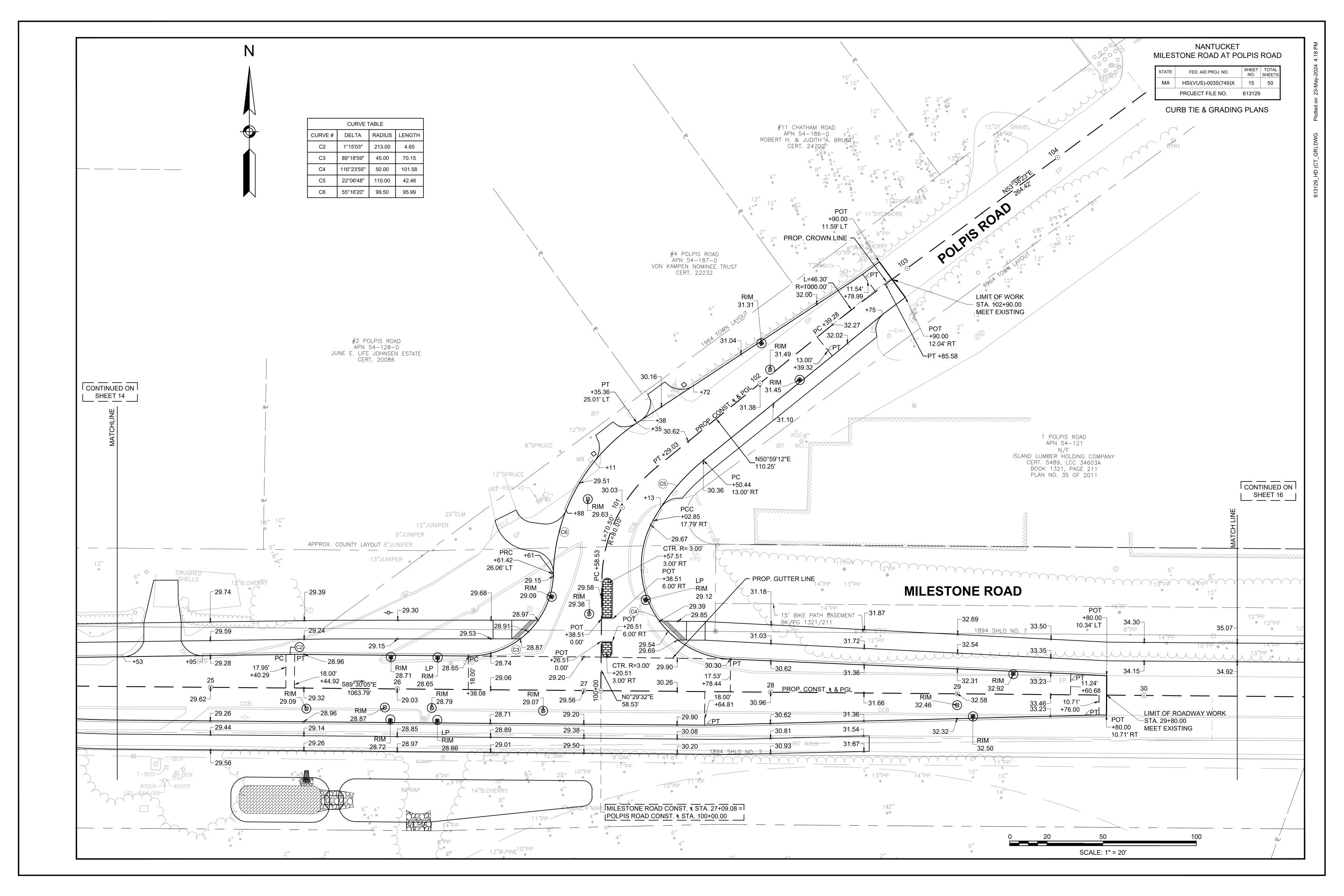
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MA	HSI(VUS)-003S(749)X	13	50
	PROJECT FILE NO.	613129	

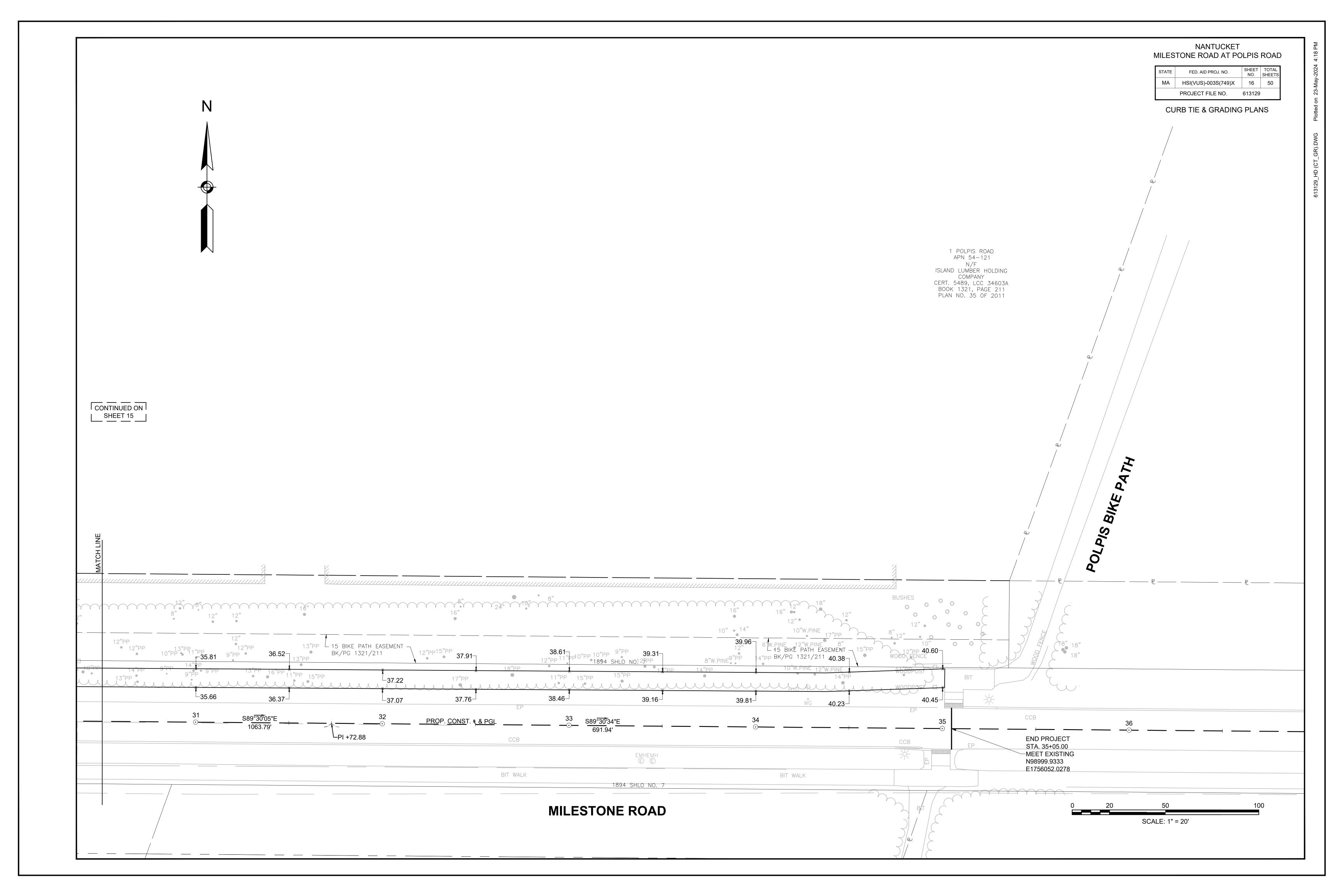
CONSTRUCTION PROFILES

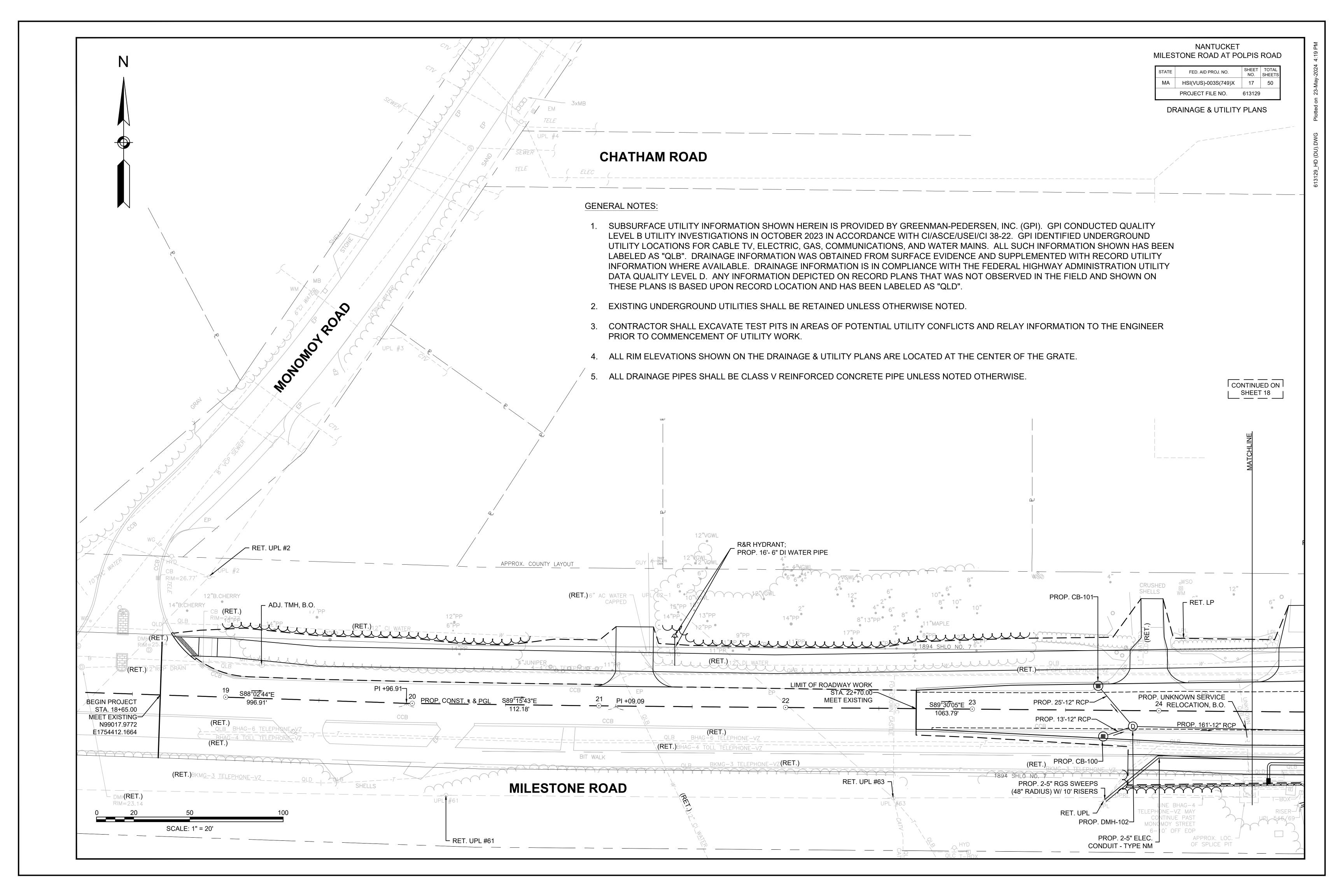
POLPIS ROAD

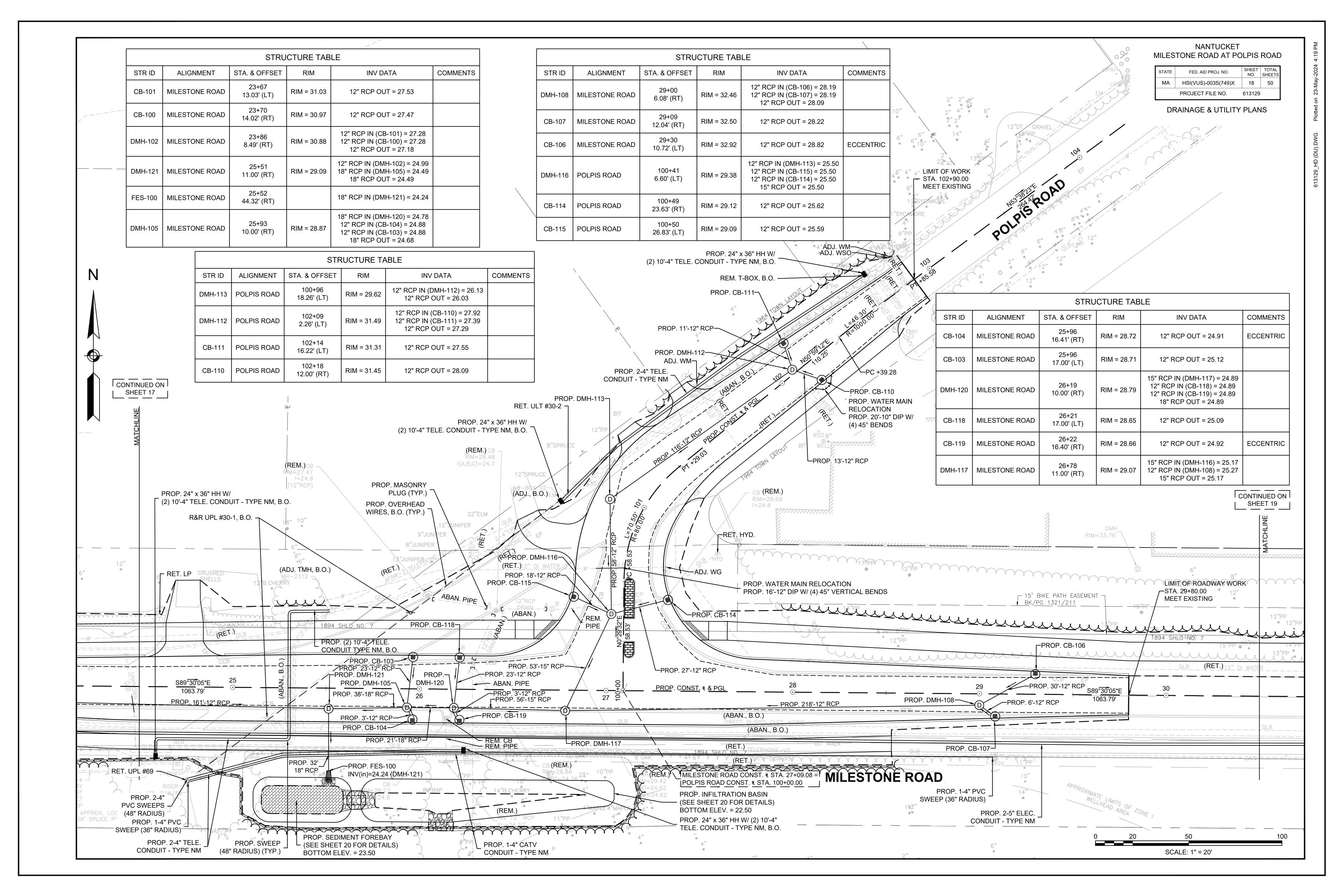


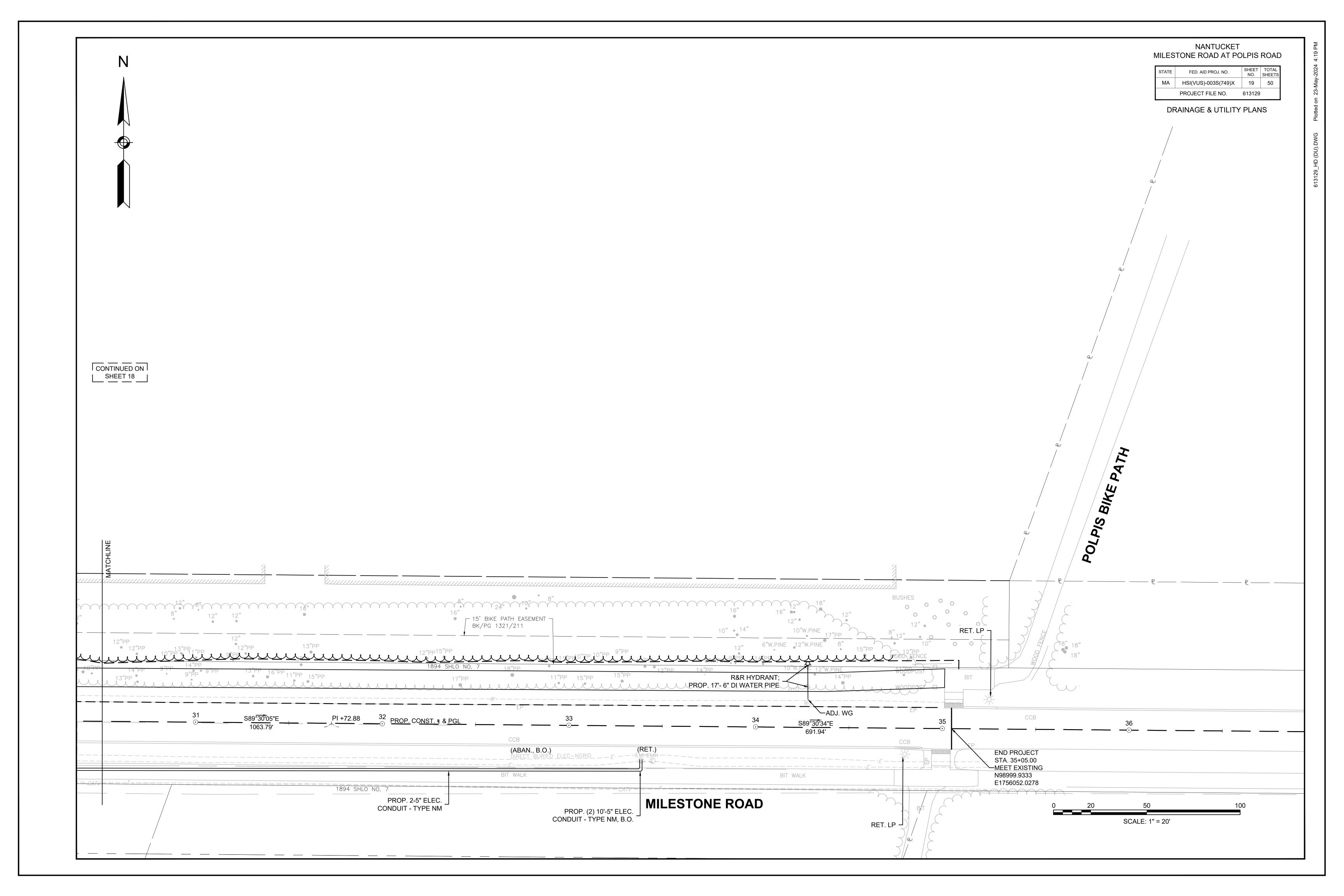


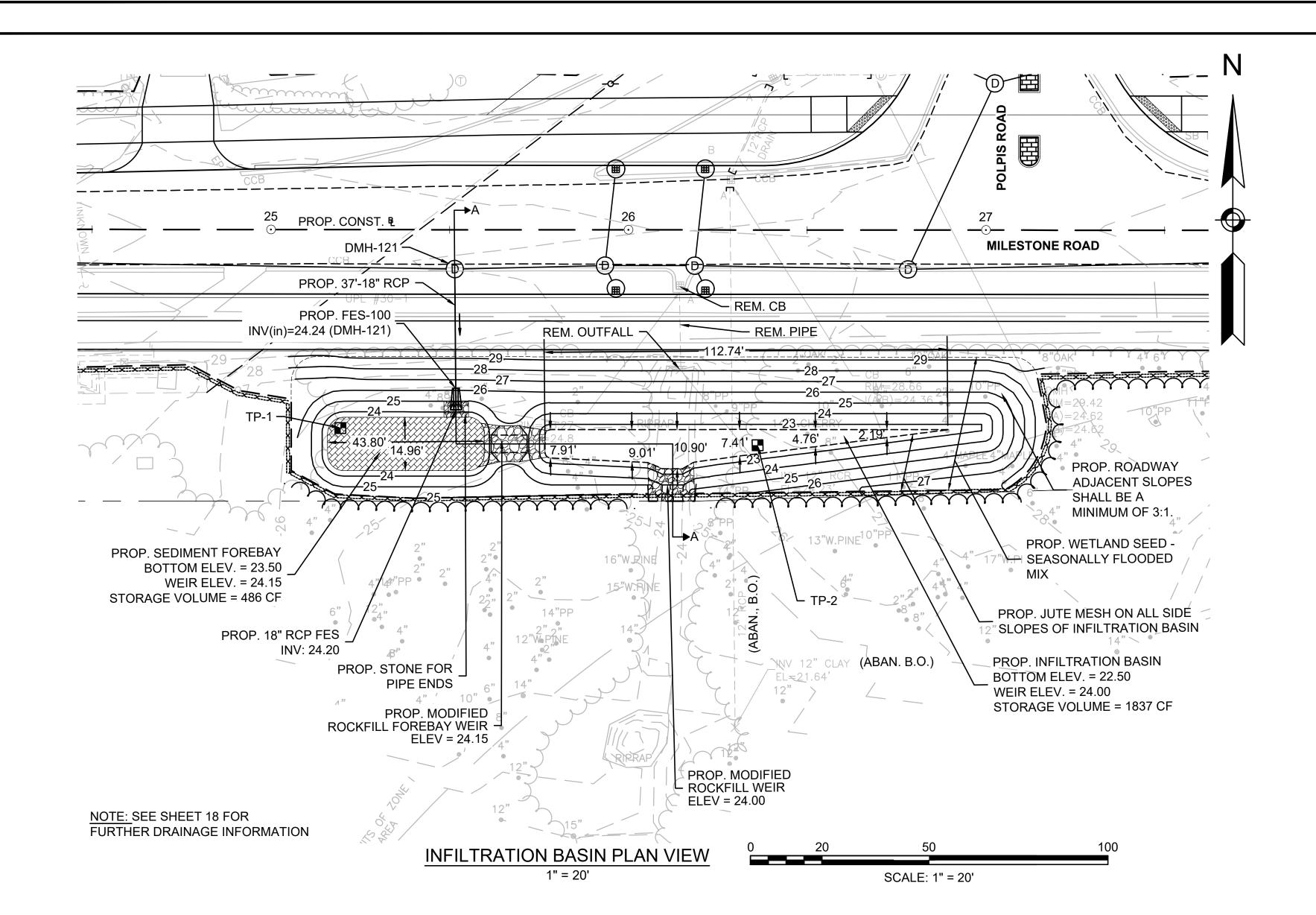


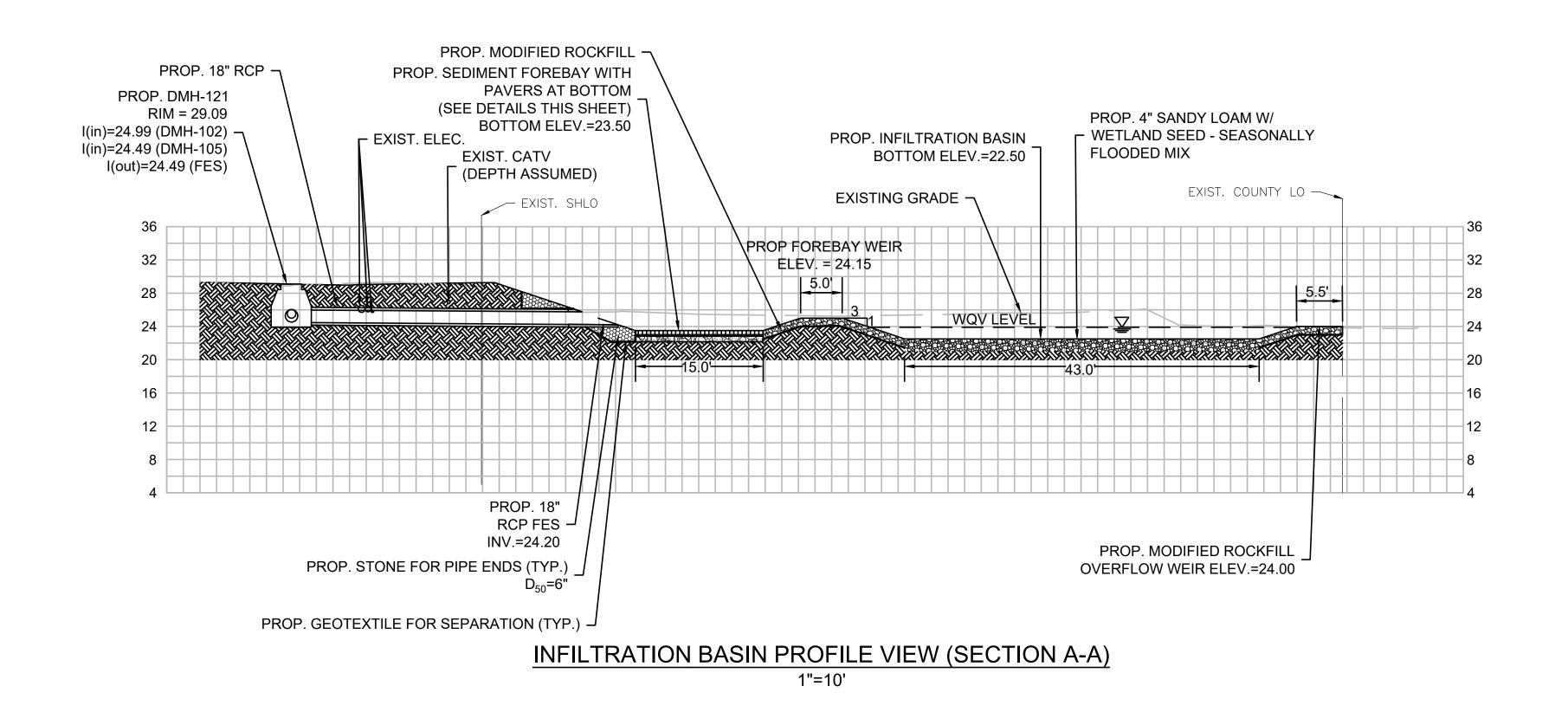






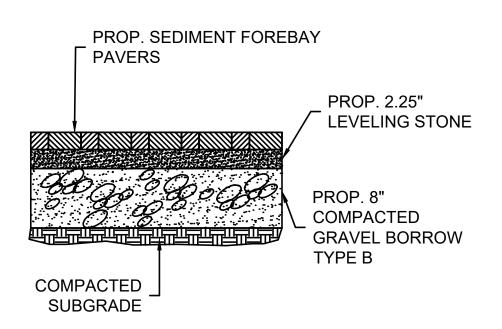




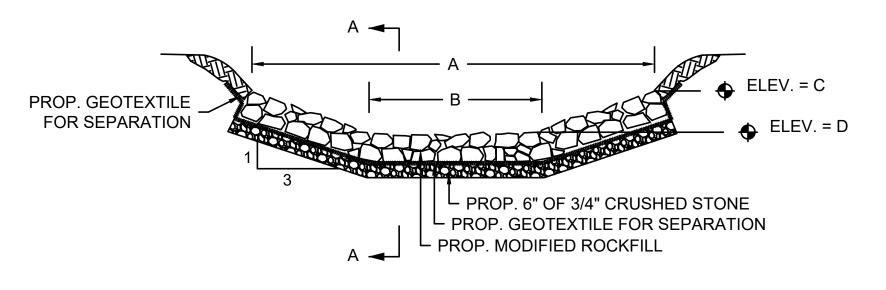


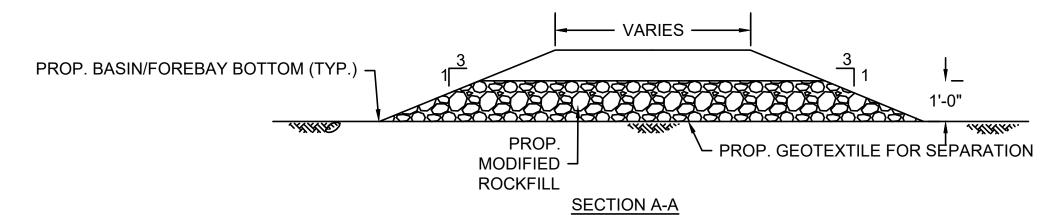
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	20	50
	PROJECT FILE NO.	613129	

DRAINAGE DETAILS



BOTTOM OF SEDIMENT FOREBAY





WEIR DESIGN TABLE					
	A B C D				
FOREBAY	10'-0"	5'-0"	25.00	24.15	
INFILTRATION BASIN	10'-0"	5'-5"	25.00	24.00	

MODIFIED ROCKFILL FOREBAY WEIR

AREAS					
	TOTAL AREA (SF)	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)		
POST-DEVELOPMENT	61,525	51,110	27,549		
PRE-DEVELOPMENT 43,457		31,609	11,848		
DIFFERENCE IN IMPE	ERVIOUS AREA	19,501			

DESIGN DATA

WATER QUALITY VOLUME:

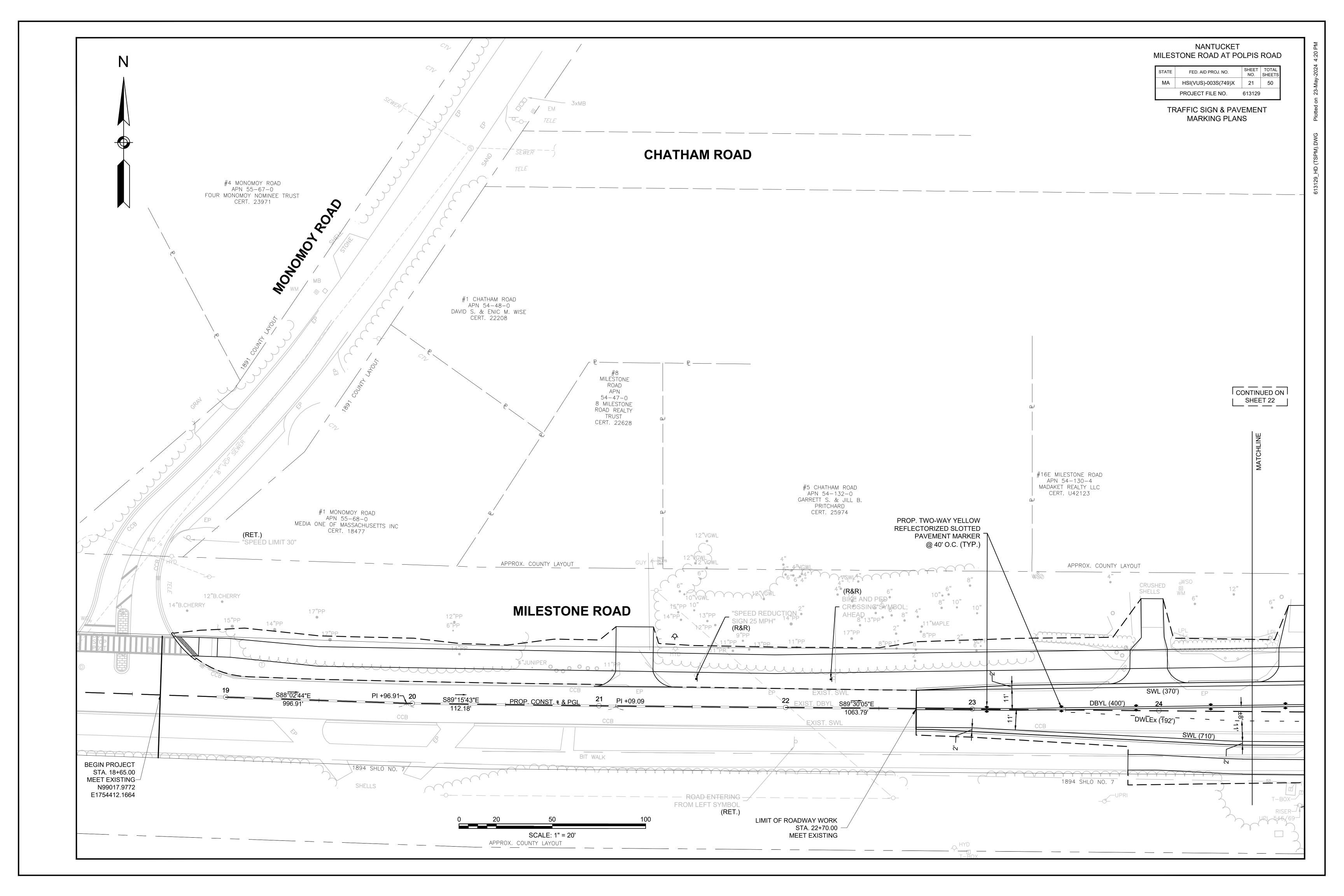
ADDED IMPERVIOUS AREA (Aimp) = 19,501 SQUARE FEET
WATER QUALITY DEPTH = 1 INCH
WATER QUALITY VOLUME (WQV) = (19,501) * (1/12) = 1,625 CUBIC FEET

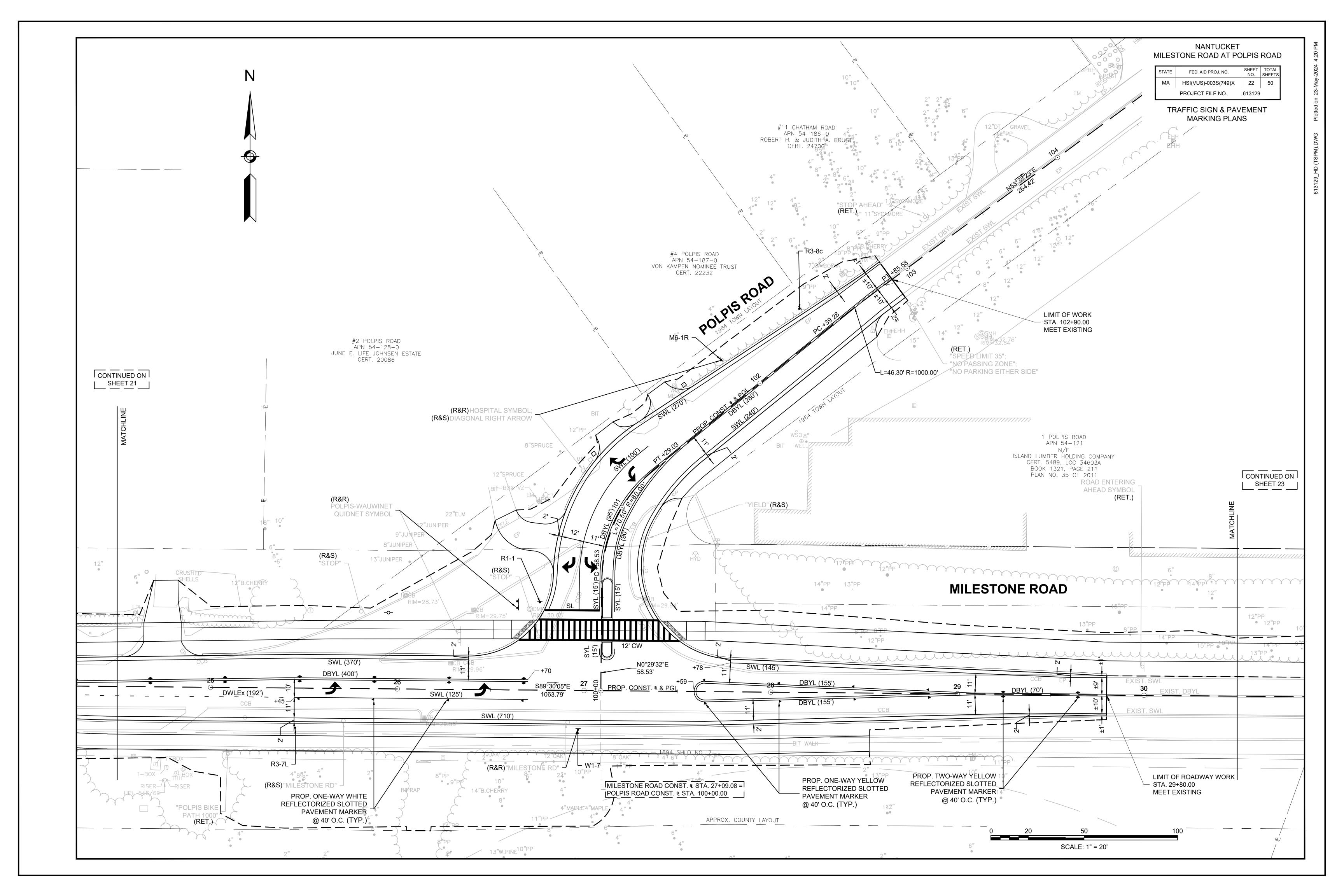
SEDIMENT FOREBAY VOLUME:

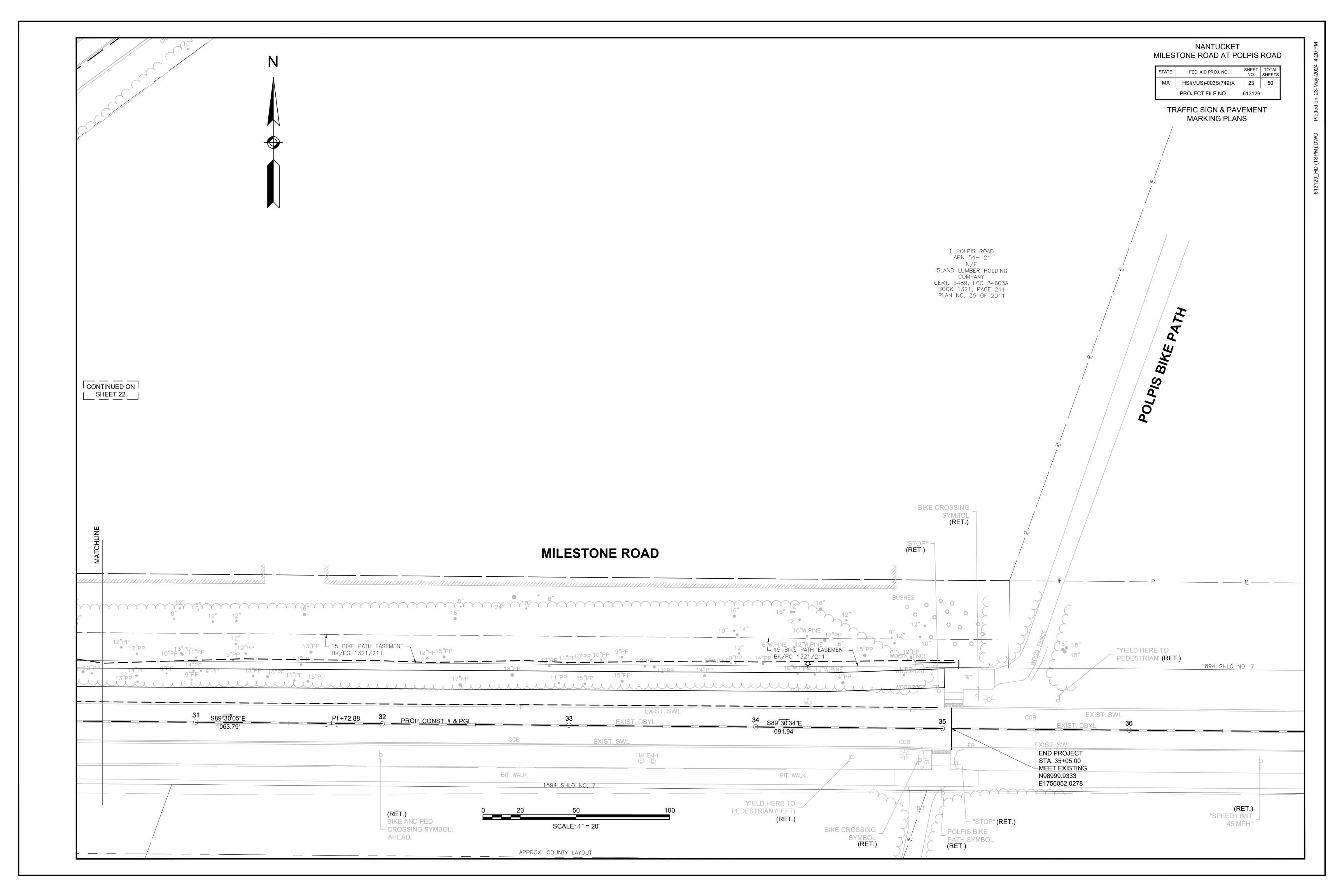
SEDIMENT DEPTH = 0.1 INCH

SEDIMENT FOREBAY VOLUME = (51,110) * (0.1/12) = 426 CUBIC FEET

DESIGN STORAGE VOLUMES									
	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	WEIR ELEVATION						
WATER QUALITY VOLUME (WQV)	1625	1837	24.00						
SEDIMENT FOREBAY VOLUME	426	486	24.15						







TRAFFIC SIGN SUMMARY SHEET

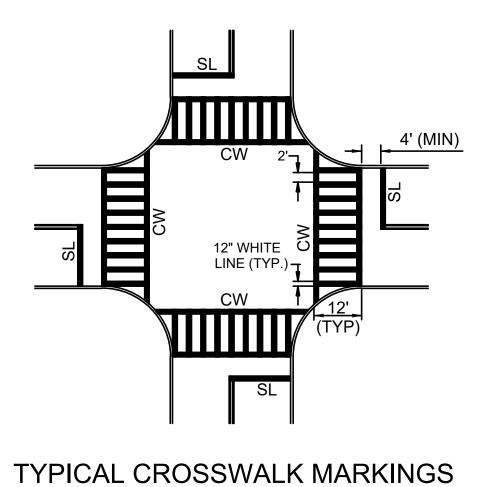
PROJECT FILE NO. 613129

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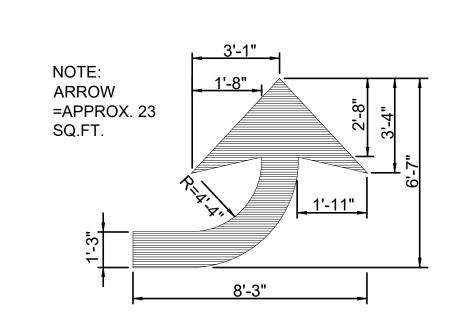
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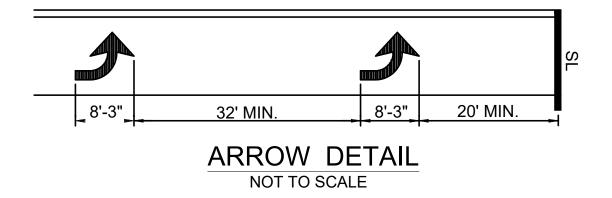
- 1. ALL WARNING, REGULATORY AND ROUTE MARKERS SHALL BE FABRICATED WITH HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING (SEE SECTION M9.30.0) TYPE III OR IV.
- 2. ALL SIGNS NOTED AS "(R&R)" SHALL BE MOUNTED ON NEW 4"x4" WOOD POST PER THE TOWN OF NANTUCKET'S STANDARDS.
- 3. QUANTITIES OF SIGNS AND POSTS SHOWN ON THIS SHEET MAY DIFFER FROM THE TRAFFIC SIGN & PAVEMENT MARKING PLANS. WHERE DIFFERENCES OCCUR, THE TRAFFIC SIGN & PAVEMENT MARKING PLANS SHALL PREVAIL.

IDENTIFI-	SIZE OF	SIGN		TEXT DIMENSIONS (INCHES)		NUMBER	COLOR			4X4 POST NUMBER	UNIT AREA IN	AREA IN
CATION NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	OF SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	REQUIRED	SQUARE FEET	SQUARE FEET
R1-1	30"	30"	STOP		TCD DARD	1	RED	WHITE	WHITE	1	6.25	6.25
R3-7L	30"	30"	LEFT LANE MUST TURN LEFT	MUTCD STANDARD		1	WHITE	BLACK	BLACK	1	6.25	6.25
R3-8c	30"	30"	ONLY ONLY	MU ⁻ STAN	TCD DARD	1	WHITE	BLACK	BLACK	1	6.25	6.25
W1-7	48"	24"			TCD DARD	1	YELLOW	BLACK	BLACK	MNT. w/ EXIST. D3-1A	8.00	8.00
M6-1R	21"	15"			TCD DARD	1	BLUE	WHITE	WHITE	MNT. w/ EXIST. D9-2	2.19	2.19



NOT TO SCALE





PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
	◆ 1	PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE (12" WHITE)
	CW	CROSSWALK (12" OR 24")
	SWL	SOLID WHITE LINE (6" OR 12")
	SYL	SOLID YELLOW LINE (6" OR 12")
	BWL	* BROKEN WHITE LINE (6")
	BYL	* BROKEN YELLOW LINE (6")
	<u>DWL</u>	*** DOTTED WHITE LINE (6")
	<u>DYL</u> _	*** DOTTED YELLOW LINE (6")
	DWLEx	** DOTTED WHITE LINE EXTENSION (6")
<u>-</u>	DYLEx	** DOTTED YELLOW LINE EXTENSION (6")
	DBWL	* DOUBLE WHITE LINE (6")

NANTUCKET MILESTONE ROAD AT POLPIS ROAD

STATE FED. AID PROJ. NO. SHEET NO. SHEETS

MA HSI(VUS)-003S(749)X 25 50

PROJECT FILE NO. 613129

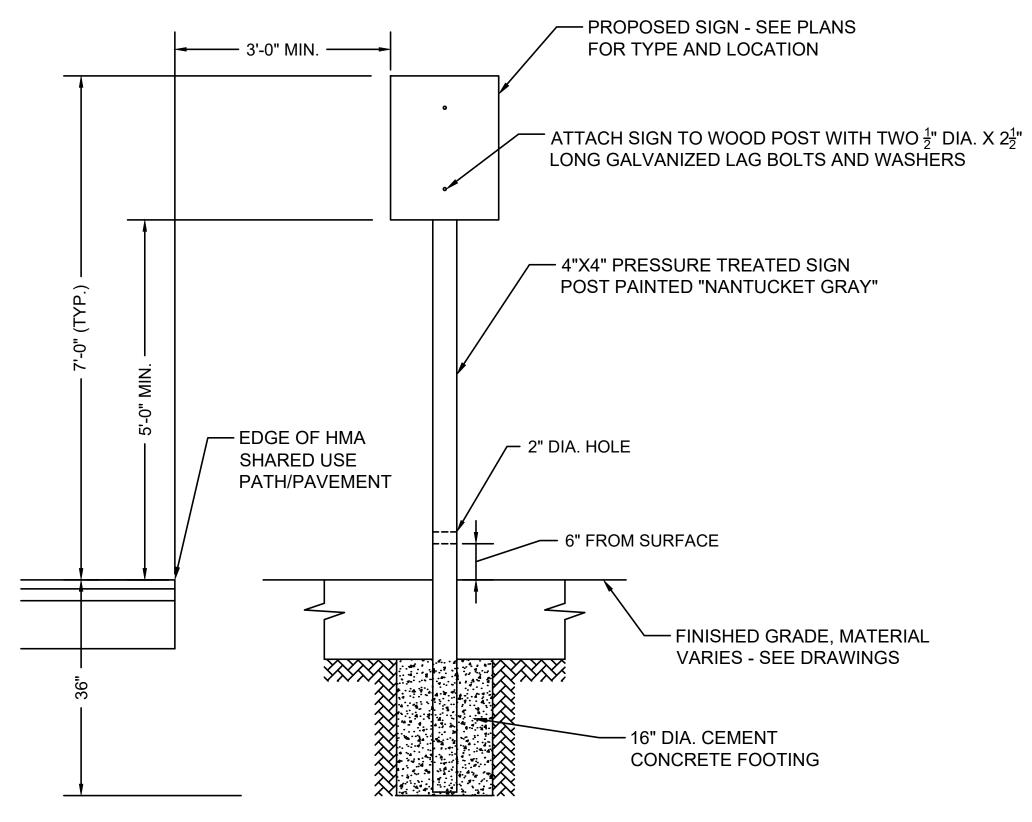
TRAFFIC LEGEND ABBREVIATIONS & NOTES

- * BROKEN WHITE/YELLOW LINES TO BE 10' IN LENGTH WITH 30' GAP (TYP.) (BYL ON SHARED USE PATH TO BE 3' IN LENGTH WITH 9' GAP)
- ** DWLEx AND DYLEx LINES TO BE 2' IN LENGTH WITH 6' GAP (TYP.)
- *** DWL AND DYL LINES TO BE 3' IN LENGTH WITH 9' GAP (TYP.) (IF WIDE LINE IS SPECIFIED, THE WIDTH SHALL BE 12")

* DOUBLE YELLOW LINE (6")

GENERAL NOTES

- 1. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- 2. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.



NOTES:

1. MAKE POSTS BREAKAWAY BY ADDING A 2" DIAMETER DRILL HOLE 6" ABOVE THE GROUND SURFACE IN THE BASE OF THE POST.

TRAFFIC SIGN INSTALLATION NOT TO SCALE

TRAFFIC MANAGEMENT NOTES

GENERAL

- 1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT HIGHWAY DIVISION'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
- 2. THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 1 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
- 3. WITH THE EXCEPTION OF THE PERMANENT LANE CLOSURES REQUIRED FOR STAGED CONSTRUCTION, LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF MASSDOT AND THE ENGINEER, LANE RESTRICTIONS MAY REMAIN OVERNIGHT.
- 4. CONTRACTOR SHALL PROVIDE A SAFE TEMPORARY PEDESTRIAN ACCESS WHERE EXISTING SIDEWALKS OR OTHER PEDESTRIAN AREAS ARE AFFECTED BY CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE RAMPS AND RAILINGS IN ACCORDANCE WITH ADA/AAB ACCESSIBILITY REQUIREMENTS FROM THE LATEST MASSDOT TTCP TEMPLATES. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
- 5. PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" MUST BE PROVIDED FOR BOTH DIRECTIONS (LANE MAY BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE UNDER POLICE OFFICER OR FLAGGER CONTROL) DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MINIMUM LANE WIDTH IS MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 7. WHEN WORK INFRINGES UPON THE TRAVELED WAY, WORK SHALL BE RESTRICTED TO OFF-PEAK HOURS ONLY (NORMALLY 9:00am TO 3:00pm, MONDAY TO FRIDAY). THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF ROAD CLOSURE.
- 8. NO WORK IS TO BE PERFORMED BETWEEN MEMORIAL DAY AND LABOR DAY, WITHOUT PRIOR WRITTEN APPROVAL OF THE DISTRICT HIGHWAY DIRECTOR AND THE TOWN.
- 9. TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES: ENGLISH UNITS: L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H. L = WS² /60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H. WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.
- 10. ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1P PLATES SHALL BE USED WHERE APPROPRIATE.
- 11. FLASHING ARROW PANEL SHALL BE SET IN "ARROW MODE" WHEN USED FOR ACTUAL LANE CLOSURES ONLY. FOR SHOULDER CLOSURES, BULBS TO BE ILLUMINATED IN A NON-DIRECTIONAL CAUTION CONFIGURATION TO AVOID UNNECESSARY LANE SHIFTS.
- 12. DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 13. THE FIRST TEN (10) REFLECTORIZED DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING WARNING LIGHTS.

GRADE DIFFERENCES

- 14. WHERE THERE IS A LONGITUDINAL DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND ADJACENT TRAVEL SURFACE (UNDER REPAIR OR RECONSTRUCTION), THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR SMOOTH TRANSITION. (SEE DETAIL ON SHEET 27).
- 15. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
- 16. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION BY USE OF DRUMS.
- 17. A MINIMUM SLOPE OF 4:1 MUST BE MAINTAINED AFTER WORKING HOURS DURING SUBBASE AND BASE COURSE INSTALLATION ALONG EDGE OF THE TRAVELWAY (SEE DETAIL ON SHEET 27). A MAXIMUM SLOPE OF 8:1 MUST BE MAINTAINED ON ALL ABUTTER ACCESS DRIVES AND A MAXIMUM SLOPE OF 12:1 MUST BE MAINTAINED ON ALL SIDEWALKS.

CONSTRUCTION SIGNING

18. ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED FLUORESCENT ORANGE BACKGROUND UNLESS OTHERWISE NOTED.

- 19. CONSTRUCTION SIGNING SHOWN ON THE ADVANCE WARNING SIGN PLAN SHALL ONLY BE USED WHEN WORK IS BEING DONE WHICH RESTRICTS TRAFFIC.
- 20. STANDARD ORANGE OR FLUORESCENT RED-ORANGE FLAGS (16"x16" MIN.) MAY BE ATTACHED TWO (2) EACH ON ALL ADVANCE WARNING SIGNS. FLAGS SHALL NOT INTERFERE WITH A CLEAR VIEW OF THE SIGN FACE. IF USED, THE COST FOR THE FLAGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGNS WITH NO ADDITIONAL PAYMENT.
- 21. EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.
- 22. ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
- 23. IF USED, ALL W20-4 AND W20-5 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 3 ABOVE.
- 24. USE MA-W20-7b OR W20-7 SIGNS ONLY WHILE POLICE OR FLAGGERS ARE DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.
- 25. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD MASH CRASH TESTED SUPPORT. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.

PAVEMENT MARKINGS

- 26. PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS.
- 27. ON PROJECTS WHERE PAVEMENT OVERLAY IS NOT DESIGNATED, EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHOULD BE COVERED TEMPORARILY WITH BLACKOUT TAPE, AS DIRECTED BY THE ENGINEER, FOR THE FULL DURATION OF THE PHASE IN PROGRESS. TEMPORARY PAINTED OR REMOVABLE TAPE MARKINGS SHALL BE USED AS NECESSARY FOR ALL PHASES OF CONSTRUCTION.

CHANNELIZATION

- 28. THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE FIRST TEN DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- 29. REFLECTORIZED CONES SHALL BE 36" HIGH.
- 30. ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT, INCLUDING BUT NOT NECESSARILY LIMITED TO, TEMPORARY IMPACT ATTENUATORS, PLASTIC DRUMS, AND SIGNS AND SIGN SUPPORTS (ON OR NEAR THE TRAVELED WAY) MUST PASS THE CRITERIA SET FORTH IN THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.

SUGGESTED WORK ZONE WARNING SIGN SPACING								
ROAD TYPE	DISTANCE BETWEEN SIGNS**							
ROAD TIPE	А	В	С					
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350					
MOST OTHER ROADWAYS*	500	500	500					
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640					

Based on: Table 6B-1 MUTCD latest edition

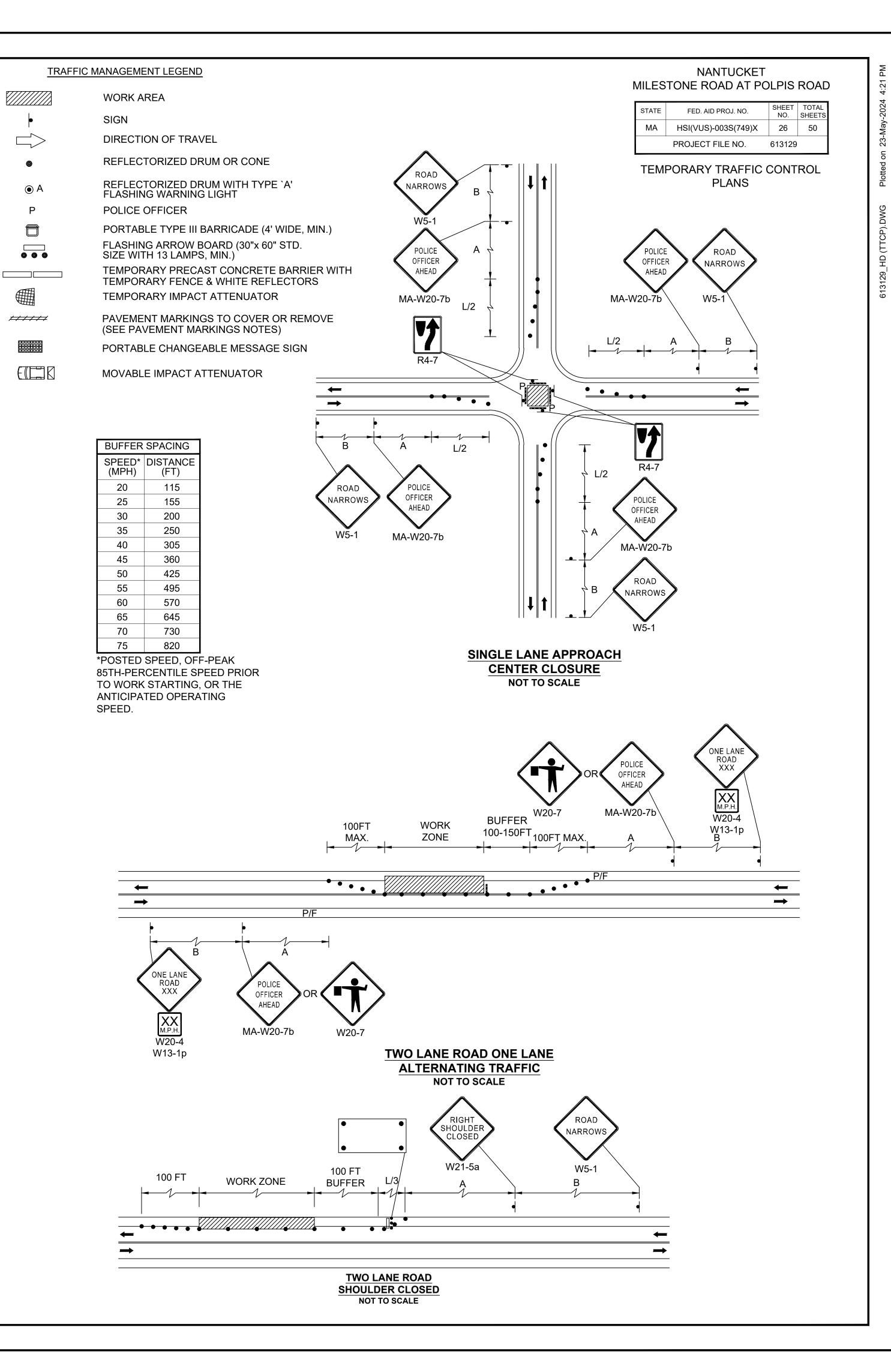
*ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

**DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT.

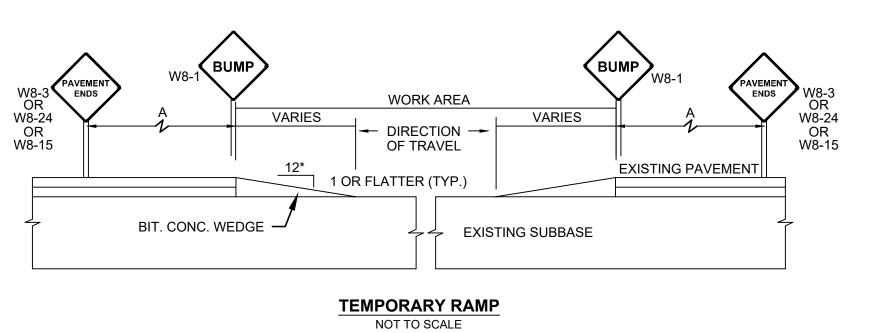
THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

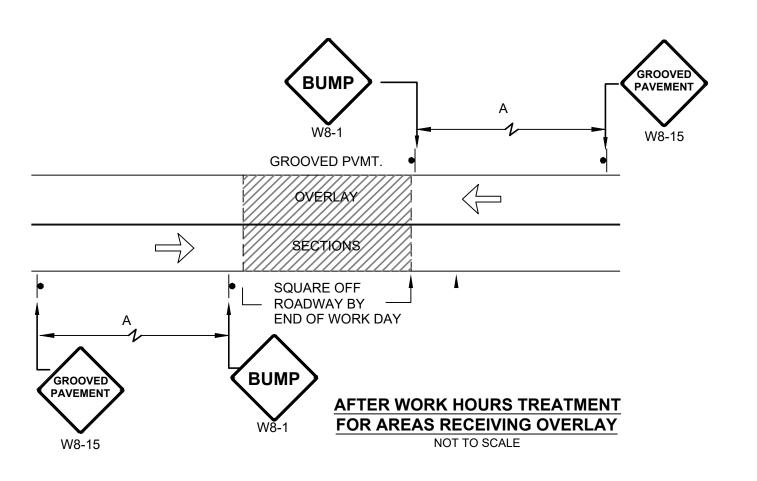
MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

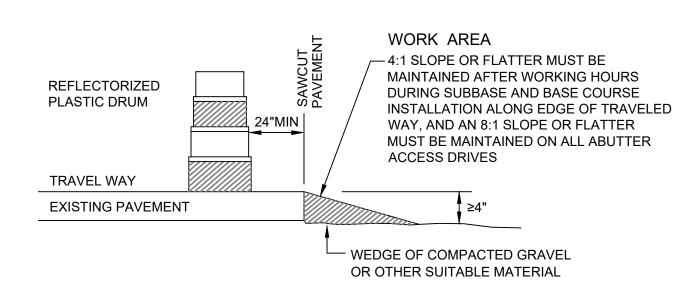




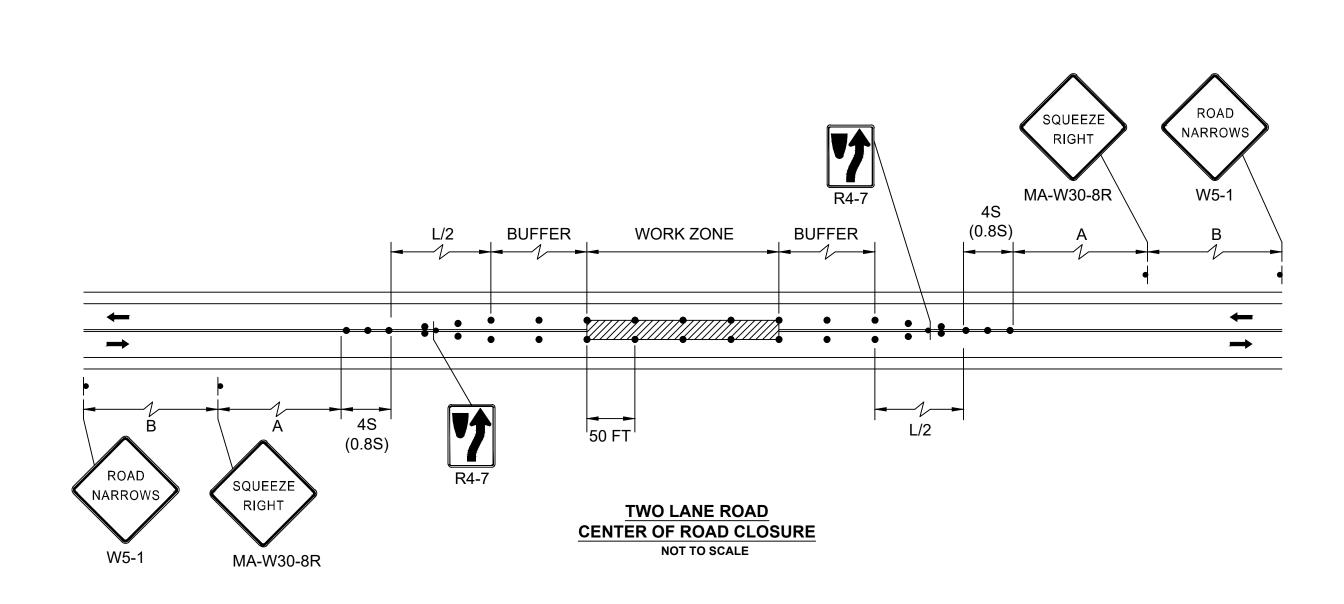
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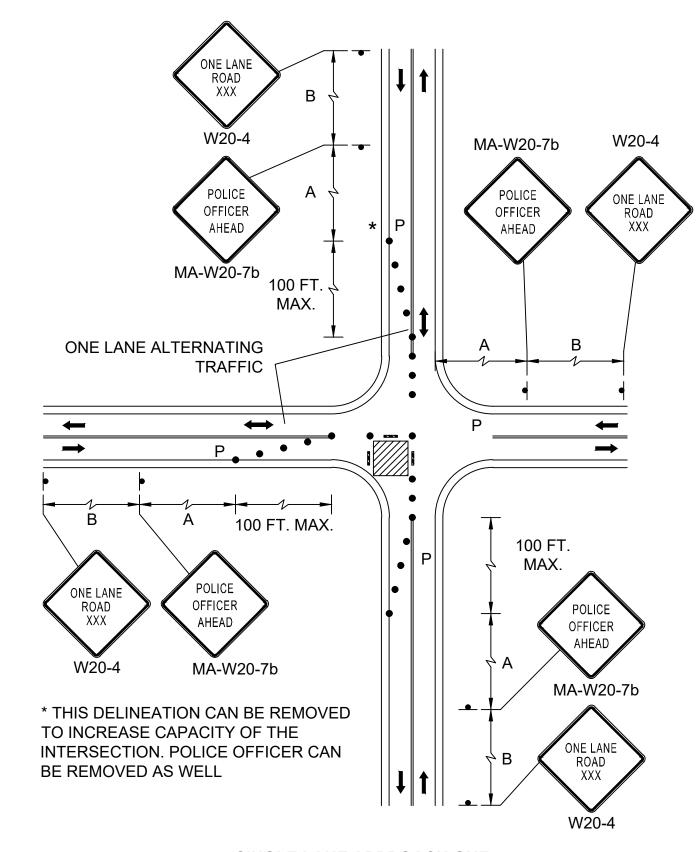




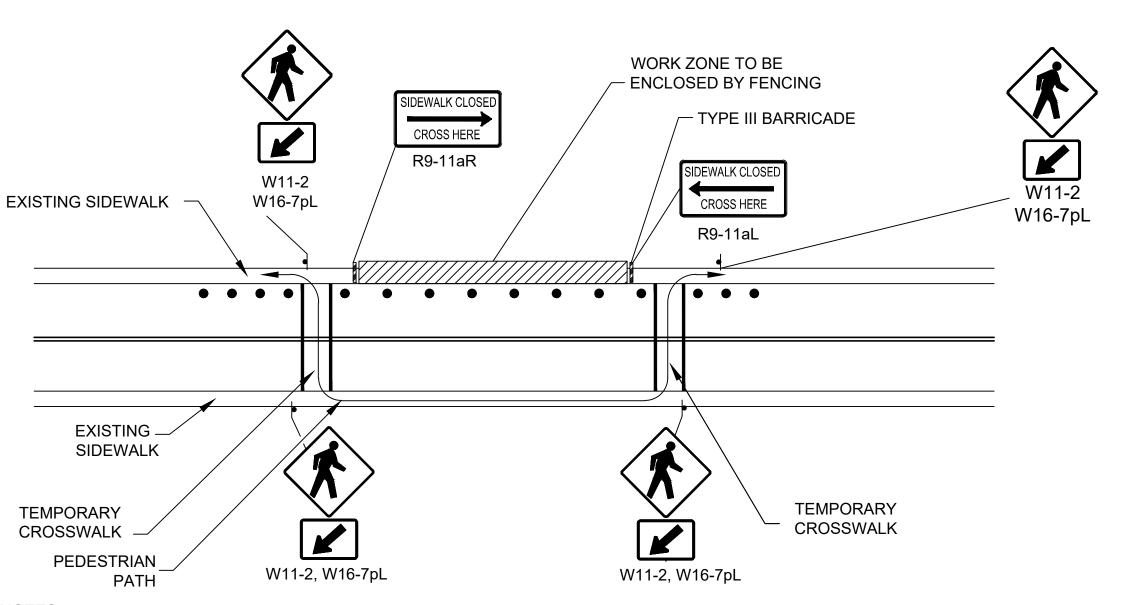


AFTER WORK HOURS TREATMENT
FOR LATERAL SLOPING
NOT TO SCALE





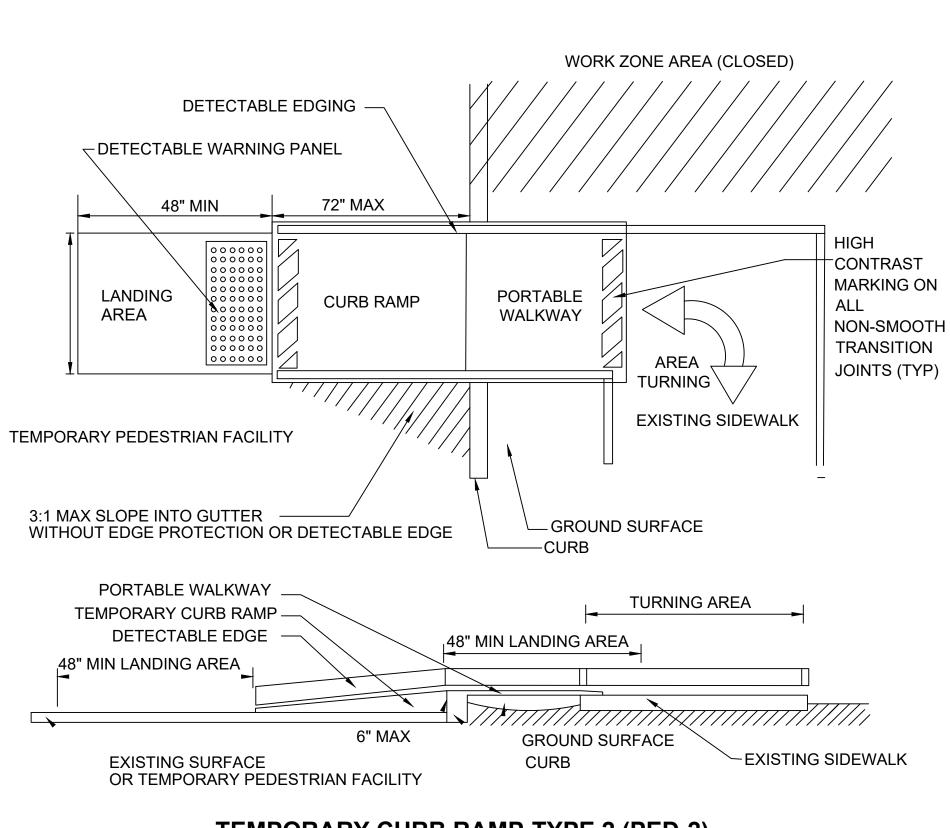
SINGLE LANE APPROACH ONE
QUADRANT CLOSURE
NOT TO SCALE



- ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
- 2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
- 3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
- 4. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
- 5. THE SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE IS REQUIRED.

PEDESTRIAN BYPASS

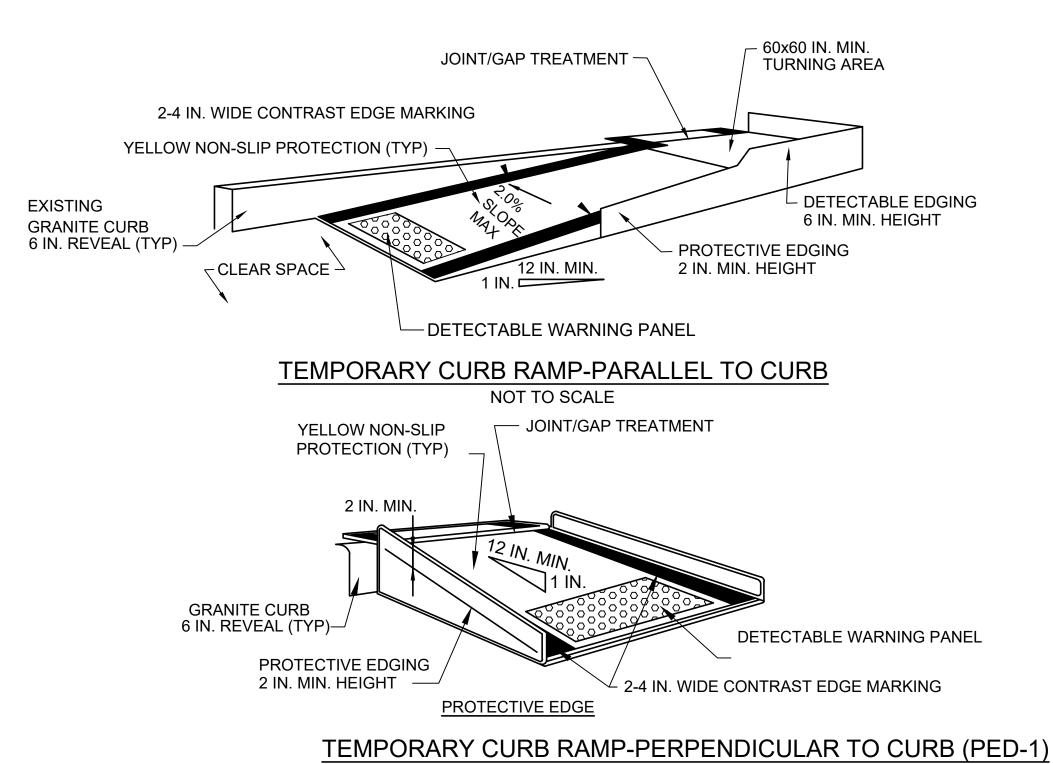
NOT TO SCALE



TEMPORARY CURB RAMP-TYPE 2 (PED-2)

PEDESTRIAN DETAILS

NOT TO SCALE



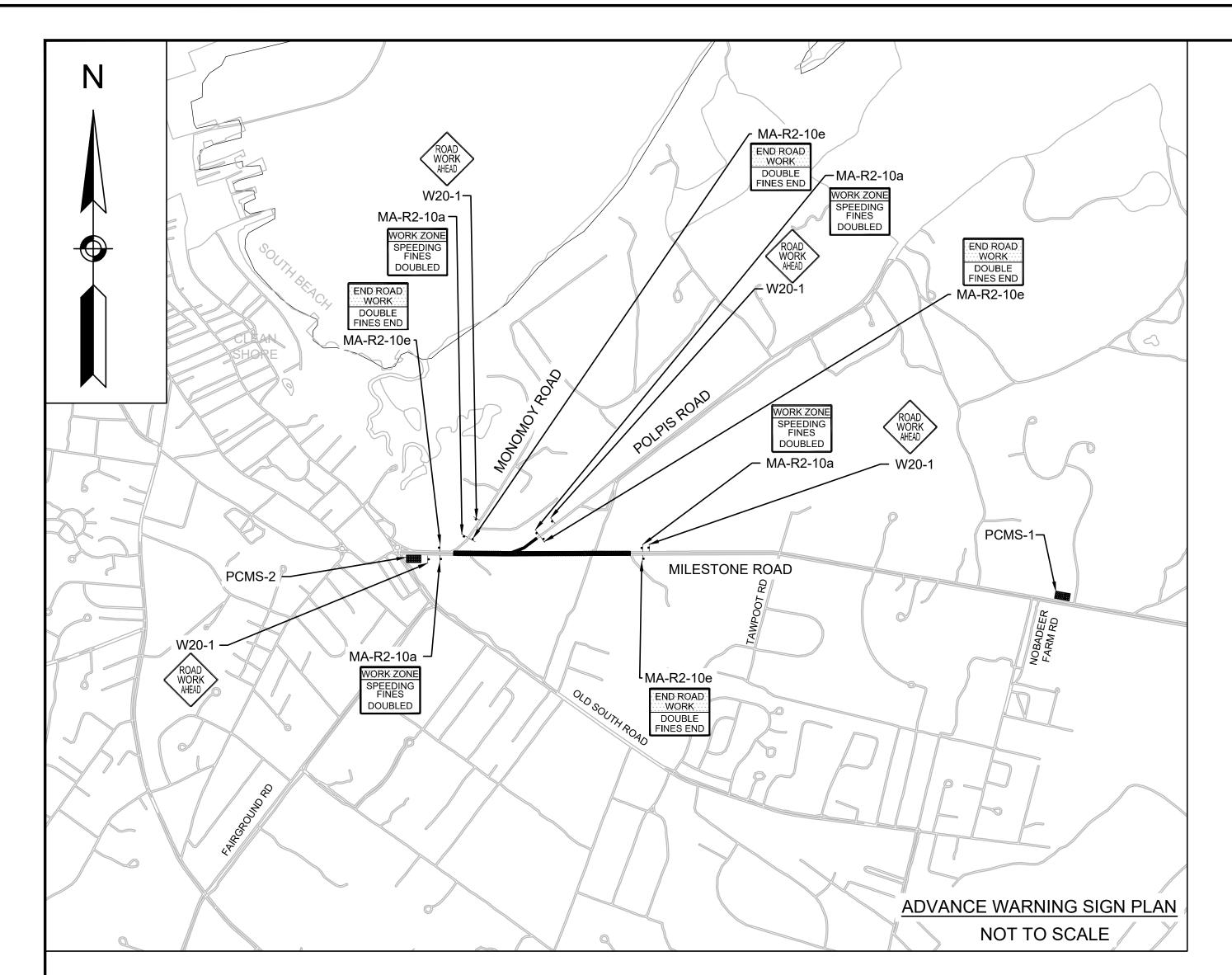
NOT TO SCALE

NOTES:

- 1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
- 2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
- DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE **EXISTING SIDEWALK.**
- CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
- CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
- LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
- 10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFI-				TEXT DIMENSIONS (INCHES)		NUMBER		COLOR		UNIT AREA IN	AREA IN
CATION NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	OF SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	SQUARE FEET	SQUAR FEET
MA-R2-10a	48"	36"	WORK ZONE SPEEDING FINES DOUBLED		SDOT DARD	4	FLUORE- SCENT ORANGE / WHITE	BLACK	BLACK	12.00	48.00
MA-R2-10e	36"	48"	END ROAD WORK DOUBLE FINES END		SDOT DARD	4	FLUORE- SCENT ORANGE / WHITE	BLACK	BLACK	12.00	48.00
R4-7	24"	30"	7	1		3	WHITE	BLACK	BLACK	5.00	15.00
W5-1	36"	36"	ROAD			3	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	27.00
W8-1	30"	30"	BUMP			2	FLUORE- SCENT ORANGE	BLACK	BLACK	6.25	12.50
W8-3	36"	36"	PAVEMENT			2	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-15	30"	30"	GROOVED PAVEMENT	MUTCD S	' TANDARD	2	FLUORE- SCENT ORANGE	BLACK	BLACK	6.25	12.50
W8-24	36"	36"	STEEL PLATE ON PAVEMENT			2	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	18.00
W13-1P	18"	18"	XX M.P.H.			2	FLUORE- SCENT ORANGE	BLACK	BLACK	2.25	4.50
W20-1	36"	36"	ROAD WORK AHEAD			4	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	36.00
W20-4	36"	36"	ONE LANE ROAD XX FT			4	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	36.00
W20-7	36"	36"		-		2	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	18.00
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD		SDOT DARD	3	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	27.00
W21-5a	36"	36"	RIGHT SHOULDER CLOSED		TCD DARD	1	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	9.00
MA-W30-8R	36"	36"	SQUEEZE RIGHT		TCD DARD	2	FLUORE- SCENT ORANGE	BLACK	BLACK	9.00	18.00

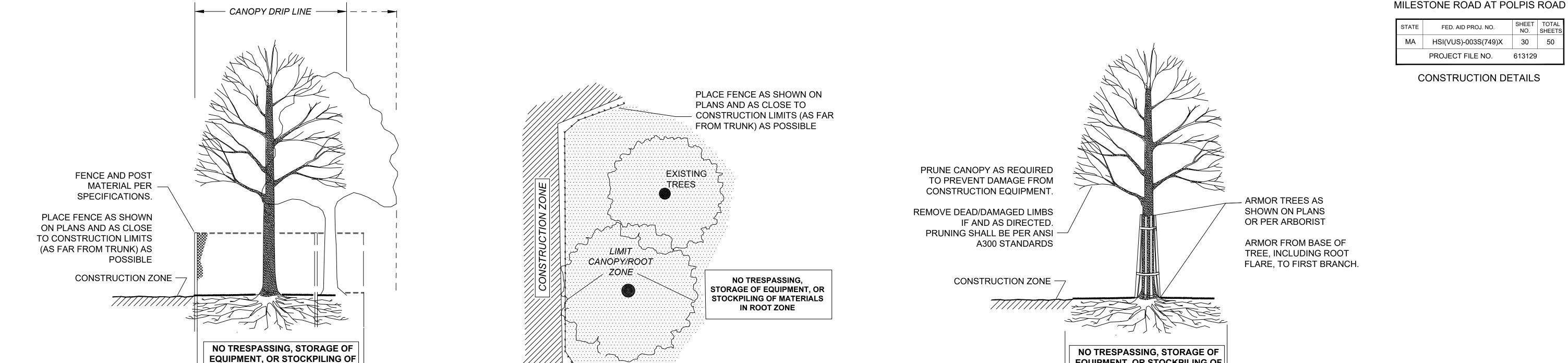


PORTABLE CHANGEABLE MESSAGE SIGNS

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL CONFORM TO THE 11TH EDITION OF THE MUTCD AS AMENDED AND SHOULD BE PLACED ON THE SHOULDER OF THE ROADWAY OR IF PRACTICAL SET WELL AWAY FROM THE TRAVEL LANE. MESSAGE SIGNS SHOULD BE PROTECTED WITH RETROREFLECTIVE TEMPORARY TRAFFIC CONTROL DEVICES WHEN PLACED WITHIN THE AVAILABLE CLEAR ZONE OR ELSE SHIELDED WITH A BARRIER OR CRASH CUSHION. THE LOCATION AND USE OF THE PCMS SHALL BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING. ALTERNATIVE MESSAGES MAY BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE SUGGESTED MESSAGE TWO WEEKS IN ADVANCE AND DURING CONSTRUCTION SHOULD READ AS FOLLOWS:

	ΤV	VO	W	EE	KS	B P	RI	OR	DU	RII	NG	C	O١	IS7	ΓRΙ	UC	TIC
	М	Ι	L	Ε						М	Τ	L	Е				
(MESSAGE 1)	S	Т	0	Ν	Е		R	D		s	Т	0	Ν	Е		R	D
	R	0	Α	D	W	0	R	K		R	0	Α	D	W	0	R	K
(MESSAGE 2)	X	B X	E X	G X	1	N	S X	X	[S A R	E L O	E T U	K	E	



TREE ROOT ZONE/

PLANT PROTECTION ZONE

PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

SECTION - TRUNK ARMORING & PRUNING

EQUIPMENT, OR STOCKPILING OF

MATERIALS

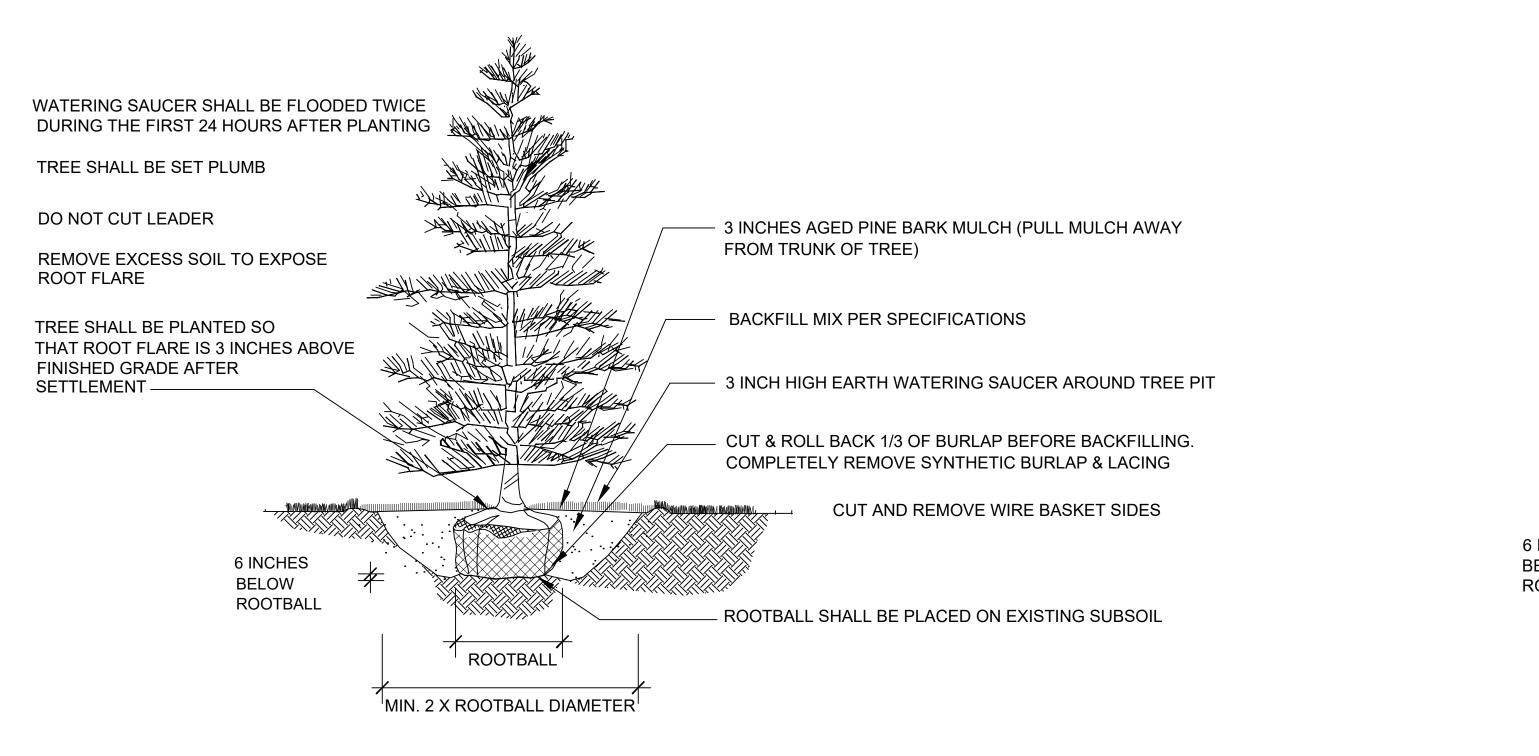
— TREE ROOT ZONE ——►

NANTUCKET

FED. AID PROJ. NO.

TREE PROTECTION - TRUNK

NOT TO SCALE



TREE PROTECTION - ROOT ZONE

NOT TO SCALE

EVERGREEN TREE PLANTING

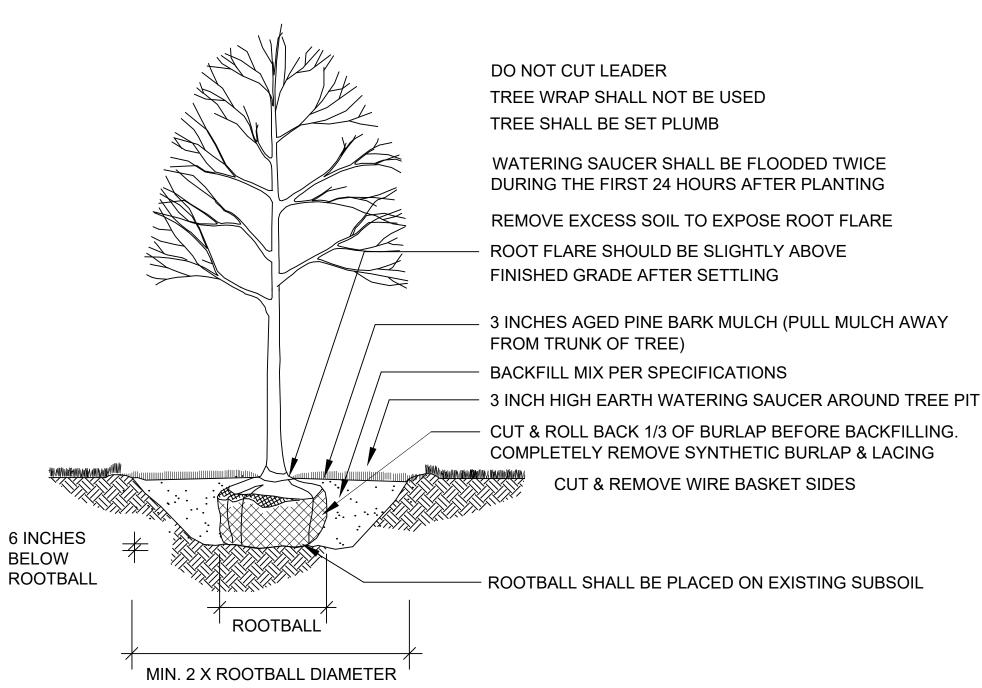
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MATERIALS

SECTION - FENCE PROTECTION OF ROOT ZONE

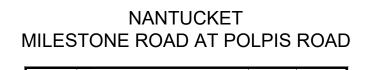
TREE ROOT ZONE/

PLANT PROTECTION ZONE



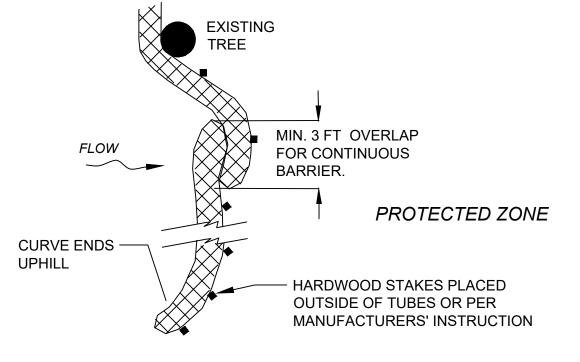
DECIDUOUS TREE PLANTING

NOT TO SCALE



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	31	50
	PROJECT FILE NO.	613129	

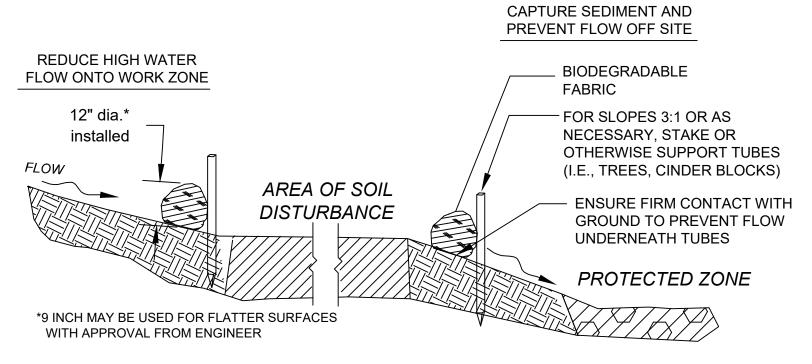
CONSTRUCTION DETAILS



PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLAN VIEW



SECTION

SEDIMENT CONTROL BARRIER

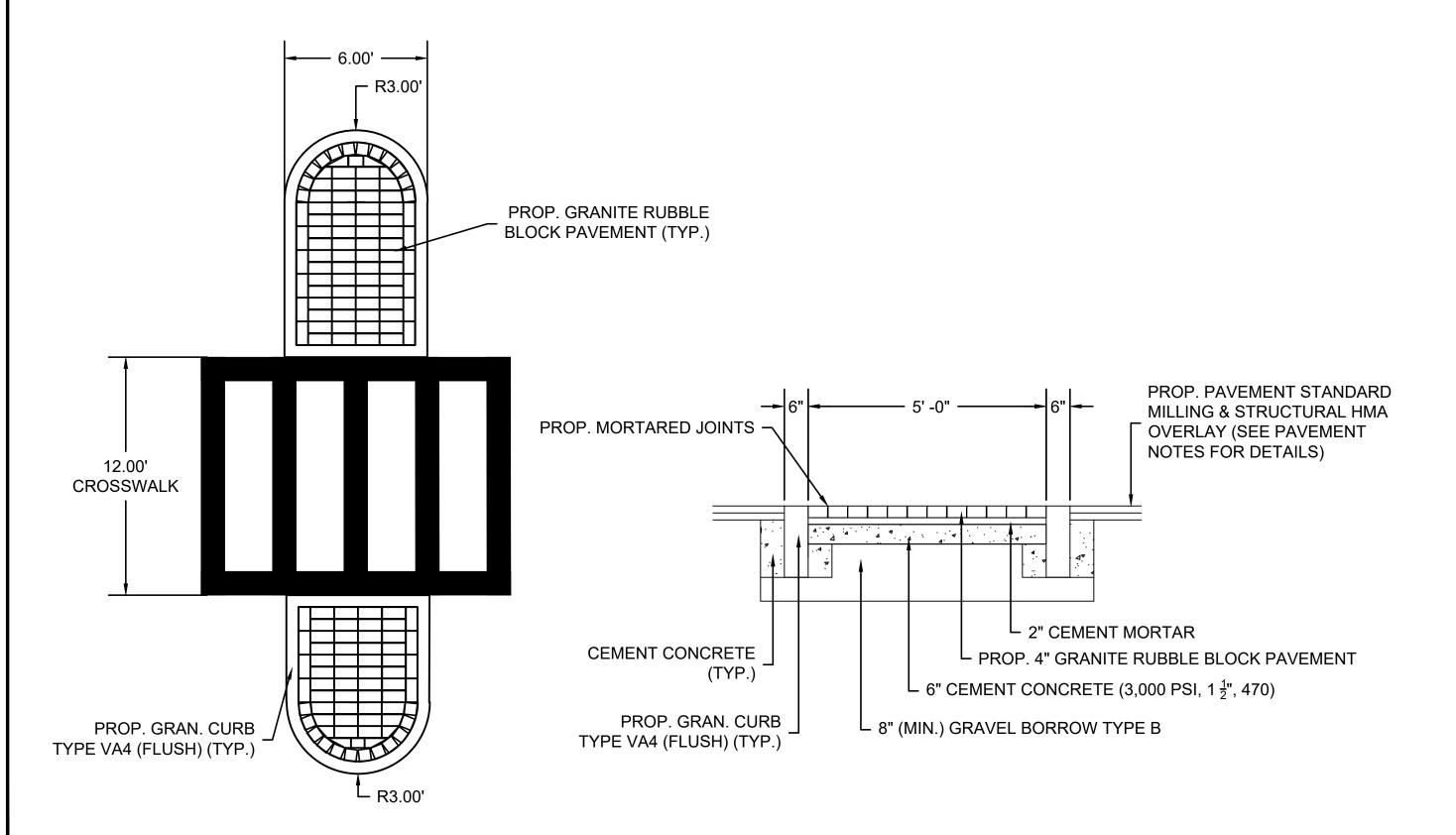
PLAN VIEW

NOT TO SCALE

WIDTH VARIES < 4.0' PAVEMENT STANDARD MILLING & STRUCTURAL -HMA OVERLAY **→** 1.0' (TYP.) MATERIAL VARIES 2.0<u>% (TYP.)</u> p d p d d v p SURFACE COURSE -(ITEM 450.221) INTERMEDIATE COURSE — → | - (TYP.) (ITEM 450.32) FULL DEPTH HMA CONSTRUCTION <4.0' (SEE PAVEMENT NOTES)

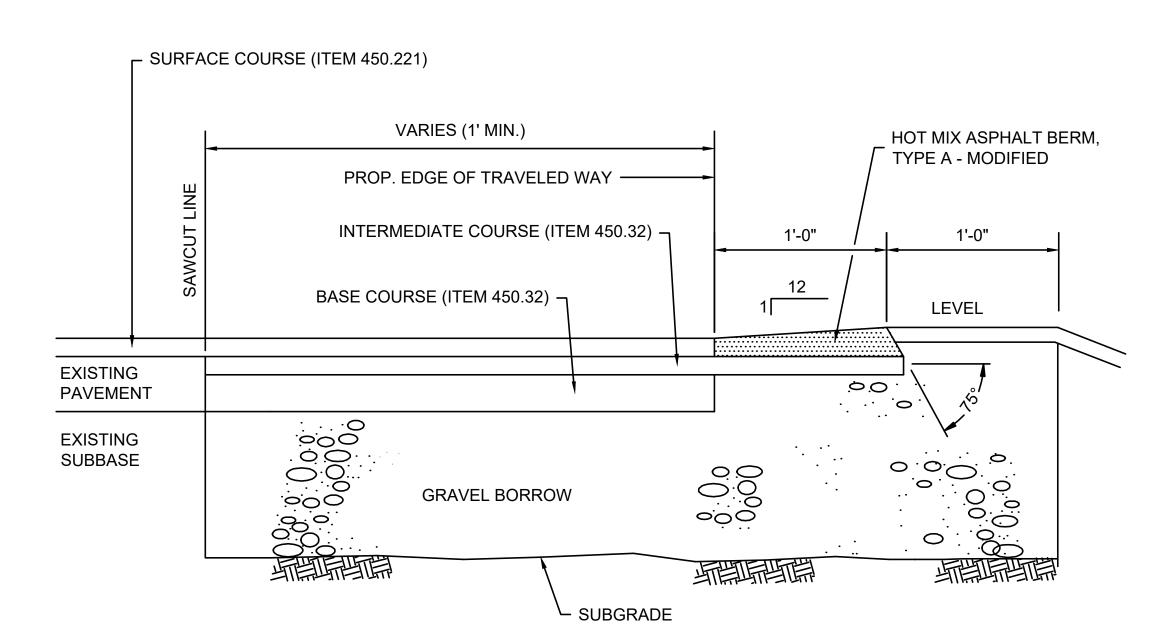
TYPICAL SECTION:
ROADWAY WIDENING <4 FEET

NOT TO SCALE

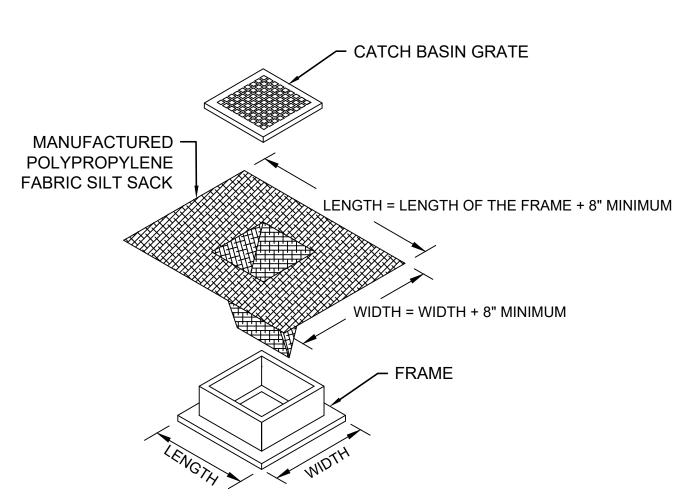


SECTION VIEW

GRANITE RUBBLE BLOCK
PAVEMENT DETAIL
NOT TO SCALE



EXISTING HMA BERM REPLACEMENT NOT TO SCALE



NOTES:

- 1. LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
- 2. REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
- 3. FOR USE ON ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND PROPOSED CATCH BASINS THAT ARE IN OPERATION DURING CONSTRUCTION.

INLET SEDIMENT CONTROL DEVICE NOT TO SCALE

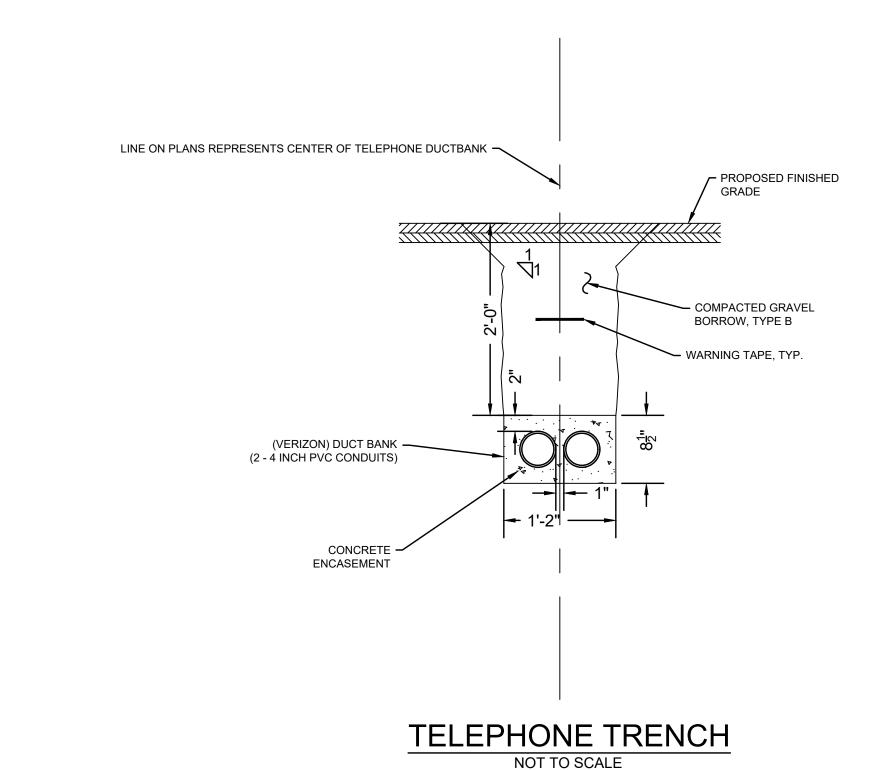
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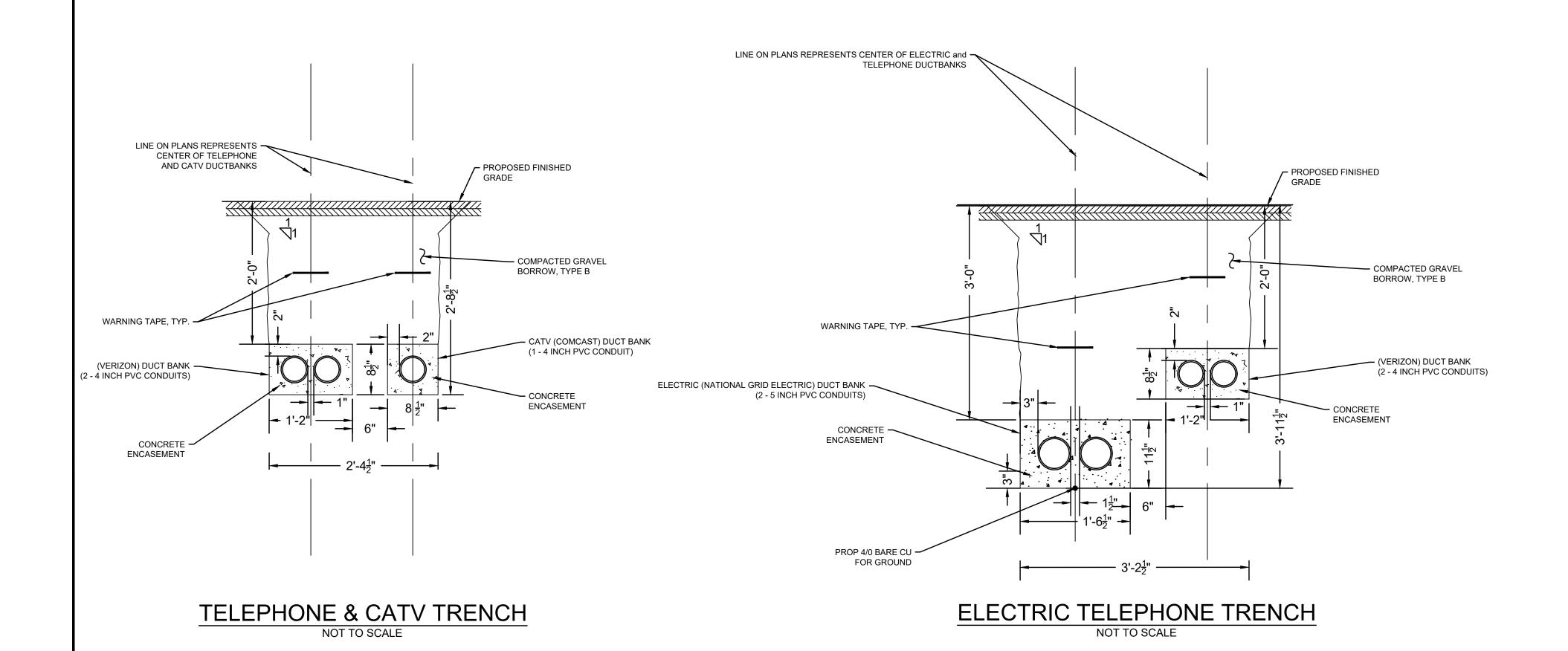
DRAINAGE TRENCH DETAIL

NOT TO SCALE

UTILITY TRENCH NOTES:

- ALL CONSTRUCTION OF DUCT BANKS INCLUDING TRENCH, EXCAVATION, AND BACKFILL SHALL CONFORM TO UTILITY DETAILS AND SPECIFICATIONS.
- 2. FOR ALL DUCTS USE SCHEDULE 40 CONDUITS ENCASED IN 2,500 PSI, 3/8 INCH, 520 CEMENT CONCRETE CONCRETE. USE PLASTIC SPACERS TO MAINTAIN CONDUIT SPACING. SPACERS SHALL MEET UTILITY SPECIFICATIONS FOR DESIGN AND SPACING.
- 3. ALL TRENCH EXCAVATION ACTIVITIES SHALL COMPLY WITH ALL APPROPRIATE OSHA STANDARDS.
- 4. EACH DUCT BANK SHALL HAVE ASSOCIATED WARNING TAPE INSTALLED. ELECTRIC DUCT BANKS WILL HAVE 6 INCH, COLOR RED. DETECTABLE METALLIC WARNING TAPE PLACED 12 INCHES ABOVE CONCRETE ENCASEMENT. TELEPHONE DUCT BANKS WILL HAVE 6 INCH, COLOR ORANGE, DETECTABLE METALLIC WARNING TAPE PLACED 12 INCHES ABOVE EACH CONCRETE ENCASEMENT.
- 5. A UTILITY COMPANY REPRESENTATIVE FROM NATIONAL GRID ELECTRIC SHALL BE PRESENT FOR ALL ELECTRICAL CONDUIT INSTALLED.
- 6. A UTILITY COMPANY REPRESENTATIVE FROM VERIZON SHALL BE PRESENT FOR ALL TELEPHONE CONDUIT INSTALLED.
- 7. A UTILITY COMPANY REPRESENTATIVE FROM COMCAST SHALL BE PRESENT FOR ALL CATV CONDUIT INSTALLED.
- 8. A MINIMUM OF 12 INCHES OF SEPARATION IS REQUIRED FOR CROSSINGS WITH GAS, WATER, SEWER AND DRAINAGE.
- 9. CONDUITS SHALL BE BLOWN CLEAN USING COMPRESSED AIR. RUN MANDREL THRU EACH CONDUIT TO CONFIRM VIABLE PATHWAY.
- 10. WOVEN POLYESTER MULE TAPE WITH MINIMUM STRENGTH OF 2500 LB TENSILE STRENGTH TO BE INSTALLED WITHIN EACH CONDUIT.





National Grid / Supplement to Specifications for Electrical Installations / ESB 759B July 2010

17.0 Riser Pole

The Company shall designate conduit riser locations on the pole. All primary risers shall be Galvanized Steel, this includes the 90 degree sweep. Per NESC all steel risers must be bonded 6" down from top of riser and the bond must be at least 8' high from finished grade.

The Customer is responsible for providing and installing the bond clamps and the tap. The Company will make the bond connection from that riser bond tap to the ground system on the pole. Spare riser sweep shall be bonded also. Riser sweep in Direct Buried applications shall be concrete encased. Approved materials reference is located on page 54.

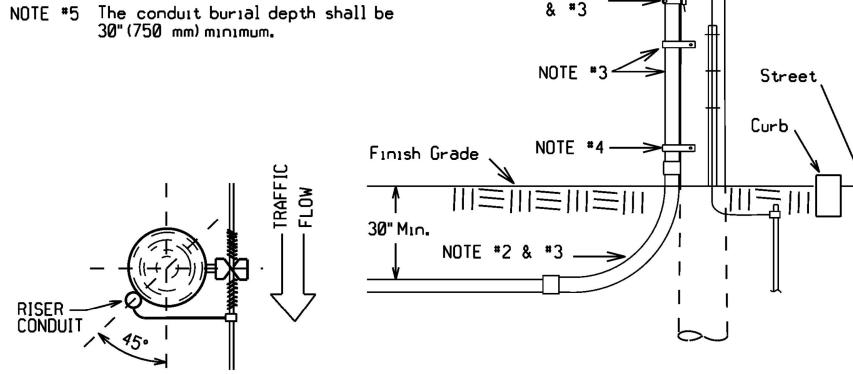
NOTE #1 U-Guard

NOTE #2 Galvanized steel conduit and bend are to be used, they shall be grounded by bonding to an approved U-bolt type ground clamp 6"(150 mm) from top of the conduit. A 24" (600 mm) conductor shall be provided to extend to the Company's grounding conductor.
The conductor shall be sized as required by the National Electrical Code. Article 250, but in no case shall it be smaller than #4 AWG copper. Recommend use of corrosion resistant bend in locations subject to highway salting.

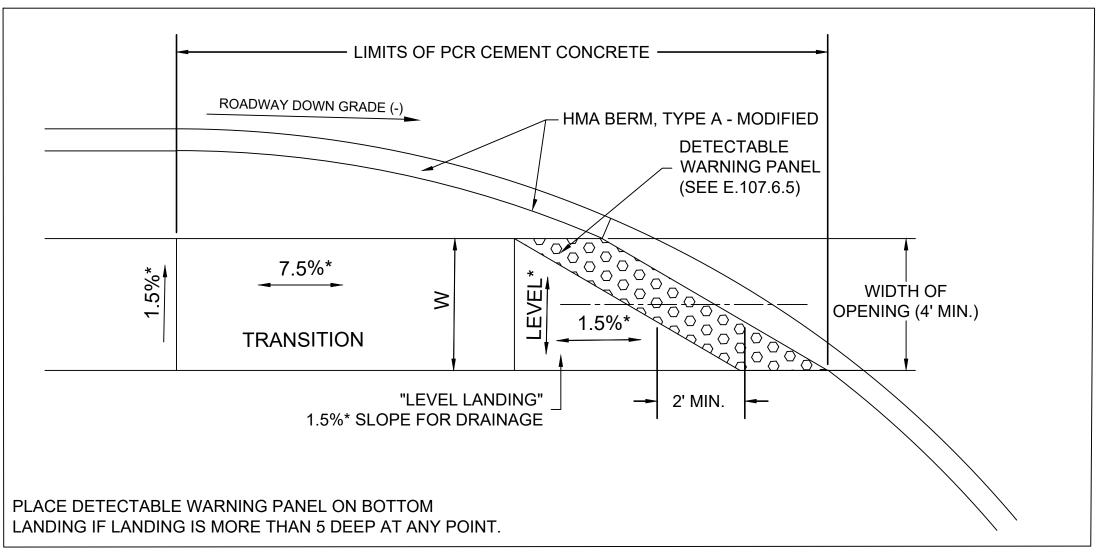
NOTE #3 Galvanized steel conduit, galvanized steel sweep, attachment clamps, grounding clamp and 24" grounding conductor shall be furnished and installed by Customer. Normally, the conduit shall rise on the side of the pole away from traffic up to 8 ft. (2.5 m) to 11 ft. (3.4 m). Consult company for proper location on pole.

NOTE #4 Pipe straps, install at not more than 30"(750 mm) intervals.

PLAN VIEW



For the latest authorized version, please refer to the company's website at http://www.nationalgridus.com/electricalspecifications.



<u>LEGEND</u>

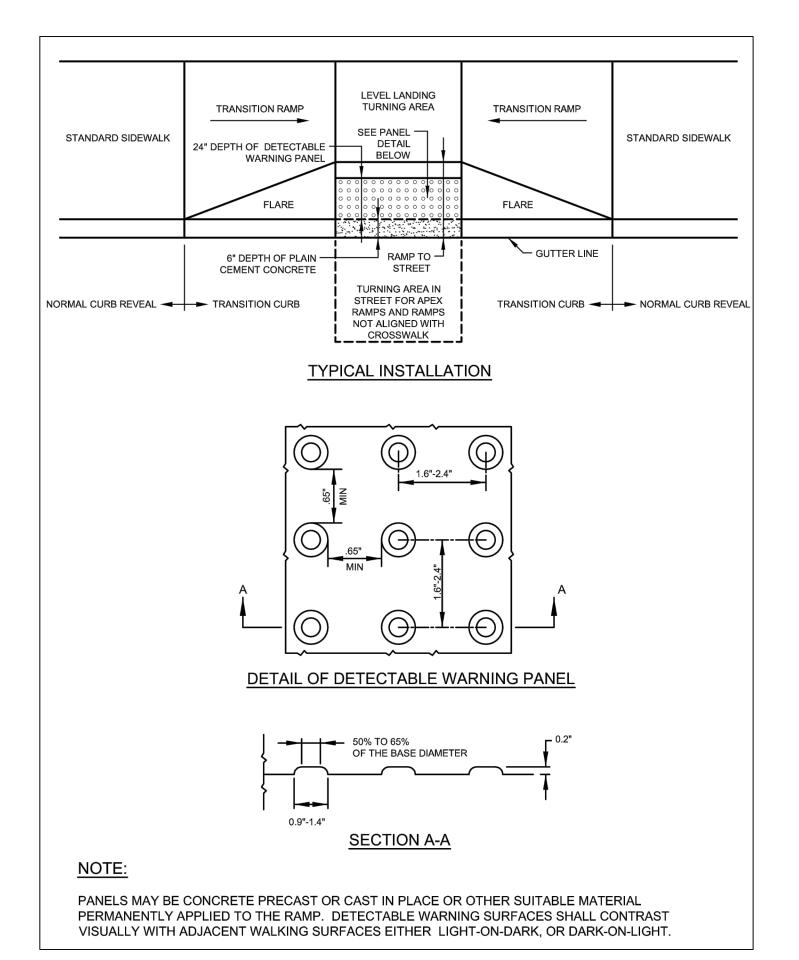
W = SIDEWALK WIDTH

* = TOLERANCE FOR CONSTRUCTION ±0.5%

HMA = HOT MIX ASPHALT

PCR#	RAMP RE	FERENCE POI	NT	WIDTH OF SIDEWALK (W)	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***
1	MILESTONE ROAD	18+75	26.18' LT	10.00'	10.00'	2.61%	10'-0"
2	MILESTONE ROAD	26+70	32.21' LT	10.00'	10.00'	0.87%	10'-0"
3	MILESTONE ROAD	27+47	32.29' LT	10.00'	10.00'	0.97%	10'-0"
*** AS VIEV	WED FROM PROPOSE	ED CONSTRUC	TION BASELIN	E			

PEDESTRIAN AND BICYCLIST CROSSING FOR ONE CONTINUOUS DIRECTION OF TRAVEL

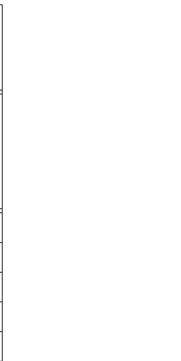


DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMPS AND STANDARD RAMP TERMINOLOGY

ROADWAY PROFILE GRADE	* HIGH SIDE TRANSITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" Max

NOTE:

* BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".



NEGATIVE SLOPE

LEFT* RIGHT*

NANTUCKET MILESTONE ROAD AT POLPIS ROAD

STATE FED. AID PROJ. NO. SHEET NO. SHEETS

MA HSI(VUS)-003S(749)X 34 50

PROJECT FILE NO. 613129

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

ROADWAY DOWNGRADE

* AS VIEWED FROM CONSTRUCTION BASELINE

POSITIVE SLOPE

LEFT* RIGHT*

LOW SIDE TRANS

TEFT*

RIGHT*

RIGHT*

* AS VIEWED FROM CONSTRUCTION BASELINE

ROADWAY DOWNGRADE

10'-0"

PATH OF TRAVEL

1.5%*

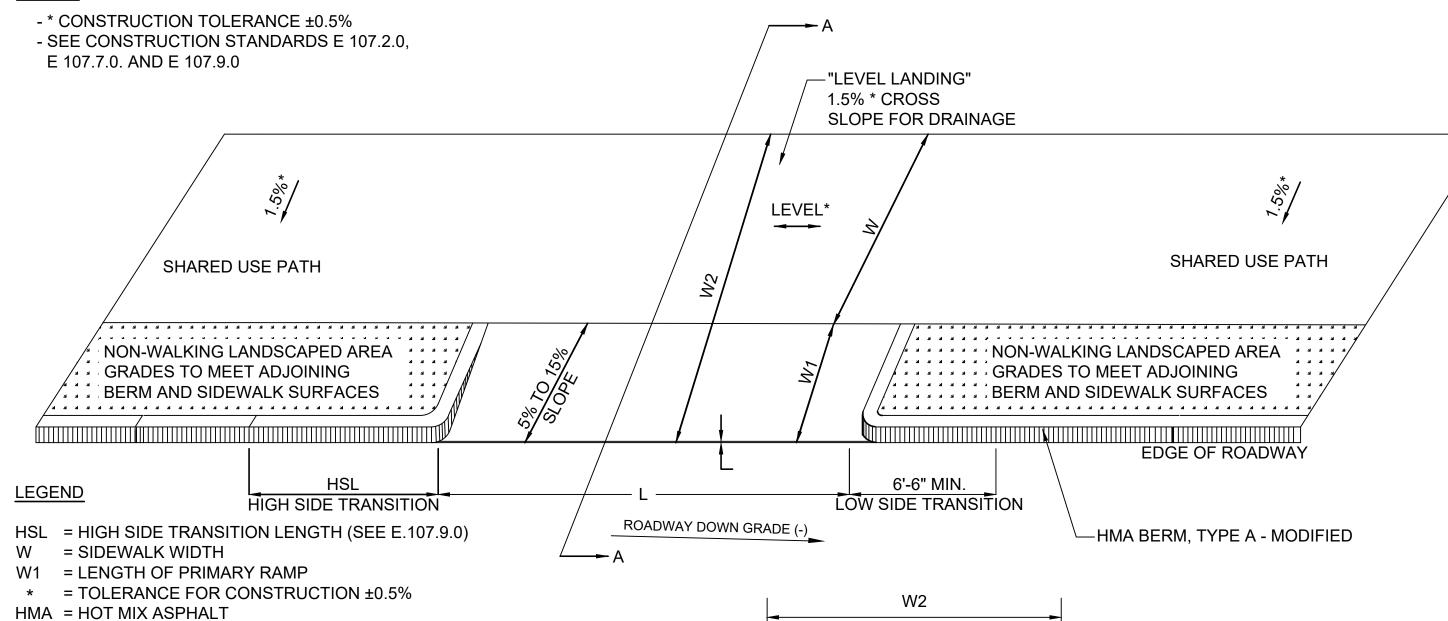
VARIES

5% TO 15% SLOPE '

ROADWAY

DRIVEWAY FOUNDATION

NOTES:

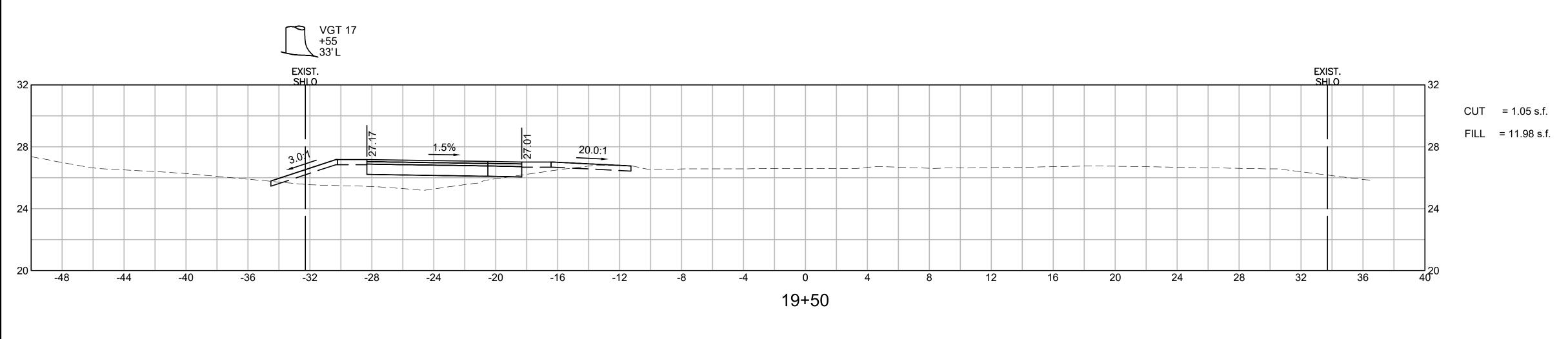


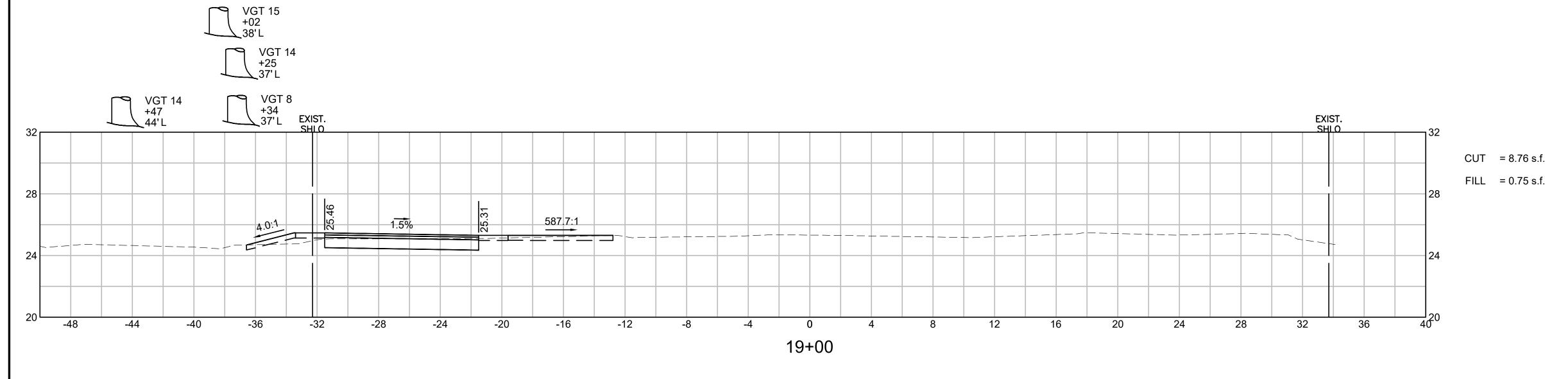
							SECTION A	<u>-A</u>			
DWY#	RAMP	REFERENCE POINT		RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF DRIVEWAY	DEPTH OF TRAVEL PATH (W)	ROADWAY GUTTER	TRANSITION	N LENGTH***
	BASELINE	STATION	OFFSET	TVAIVIE (VVI)	(L)	FAIII (VV)	SLOPE	LEFT SIDE	RIGHT SIDE		
1	MILESTONE ROAD	21+19	10.49' LT	11'-0"	20'-0"	10'-0"	1.80%	NA	NA		
2	MILESTONE ROAD	23+96	12.70' LT	8'-10"	20'-0"	10'-0"	-1.30%	NA	NA		
3	MILESTONE ROAD	24+76	14.50' LT	7'-0"	20'-0"	10'-0"	-1.30%	NA	NA		
*** AS VIE	WED FROM PF	ROPOSED CON	NSTRUCTION E	BASELINE							
SHARED	USE PATH AT I	DRIVEWAYS S	SEPARATED B	Y CURB RETURI	NS						

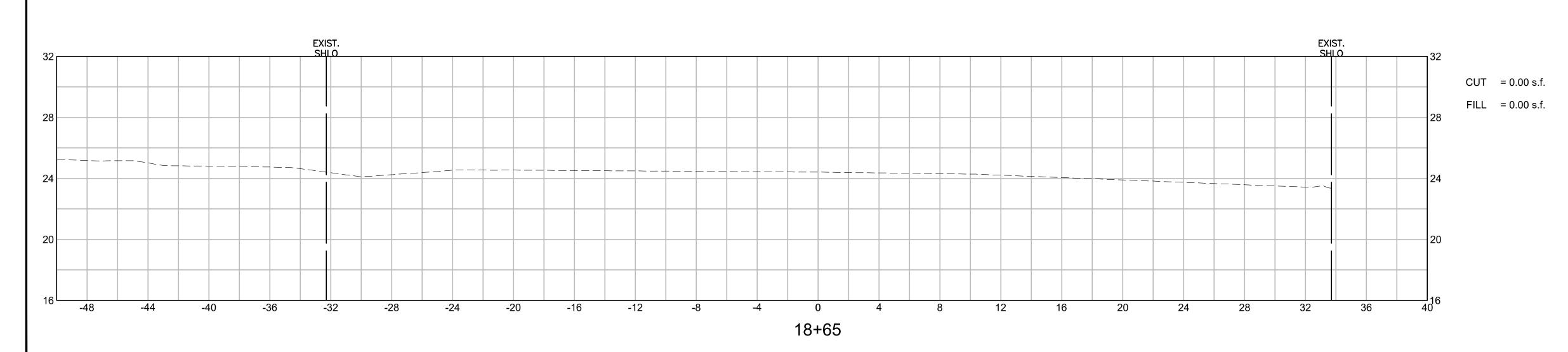
HMA = 4"—

8" MIN.-

NANTUCKET MILESTONE ROAD AT POLPIS ROAD STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS MA HSI(VUS)-003S(749)X 35 50 PROJECT FILE NO. 613129 CROSS SECTIONS MILESTONE ROAD

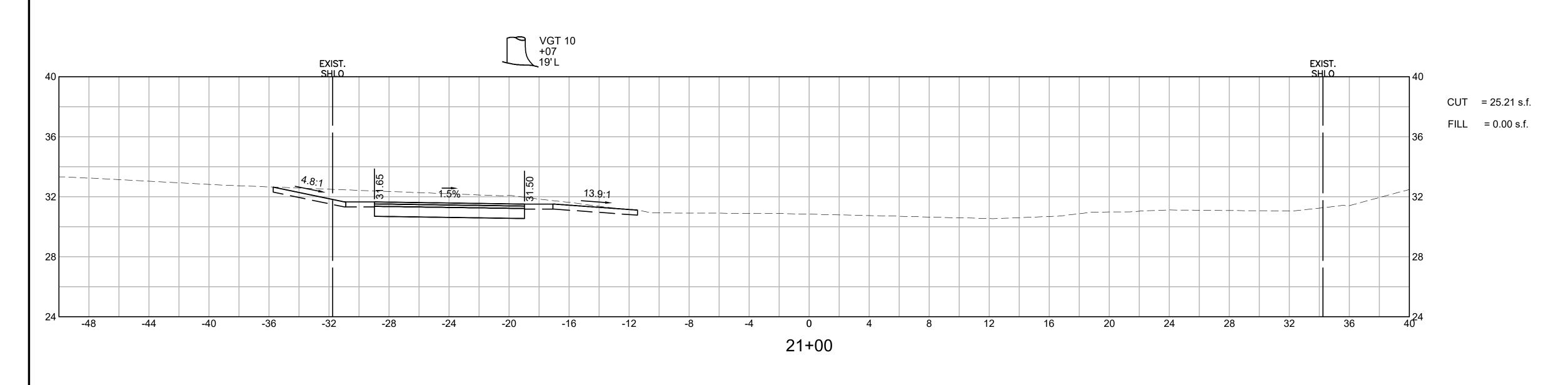


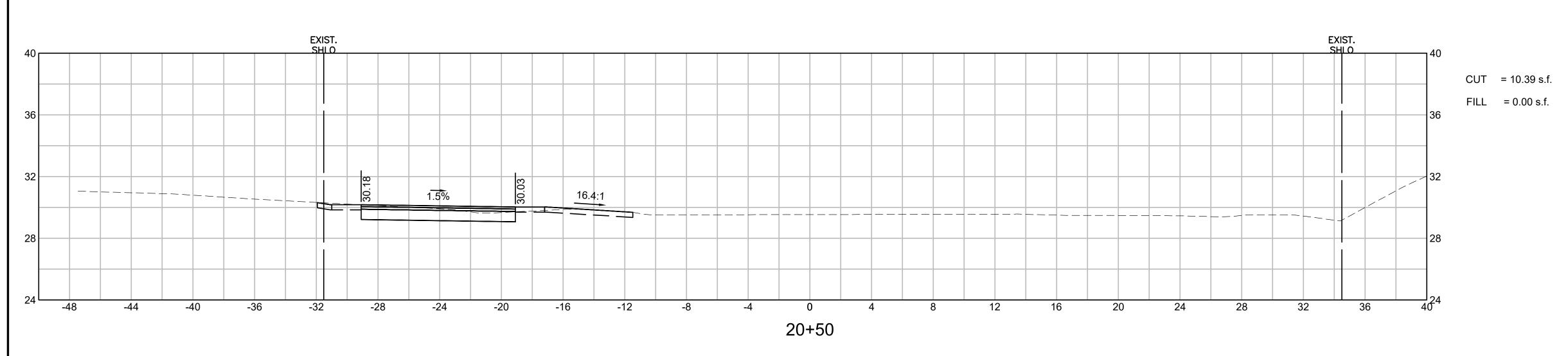


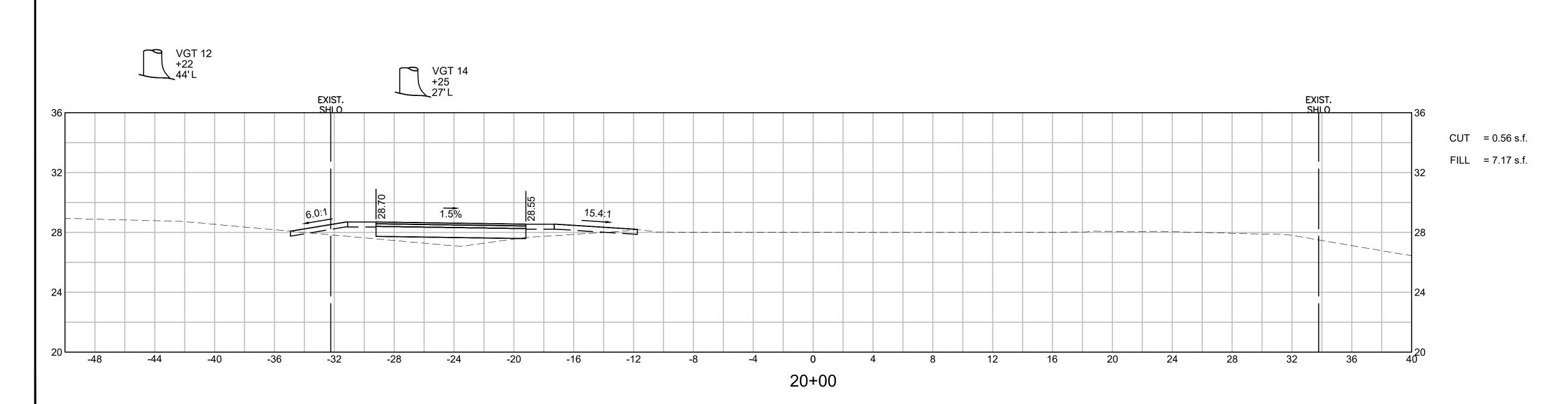


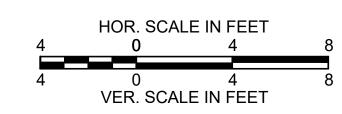
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	36	50
	PROJECT FILE NO.	613129	

CROSS SECTIONS MILESTONE ROAD

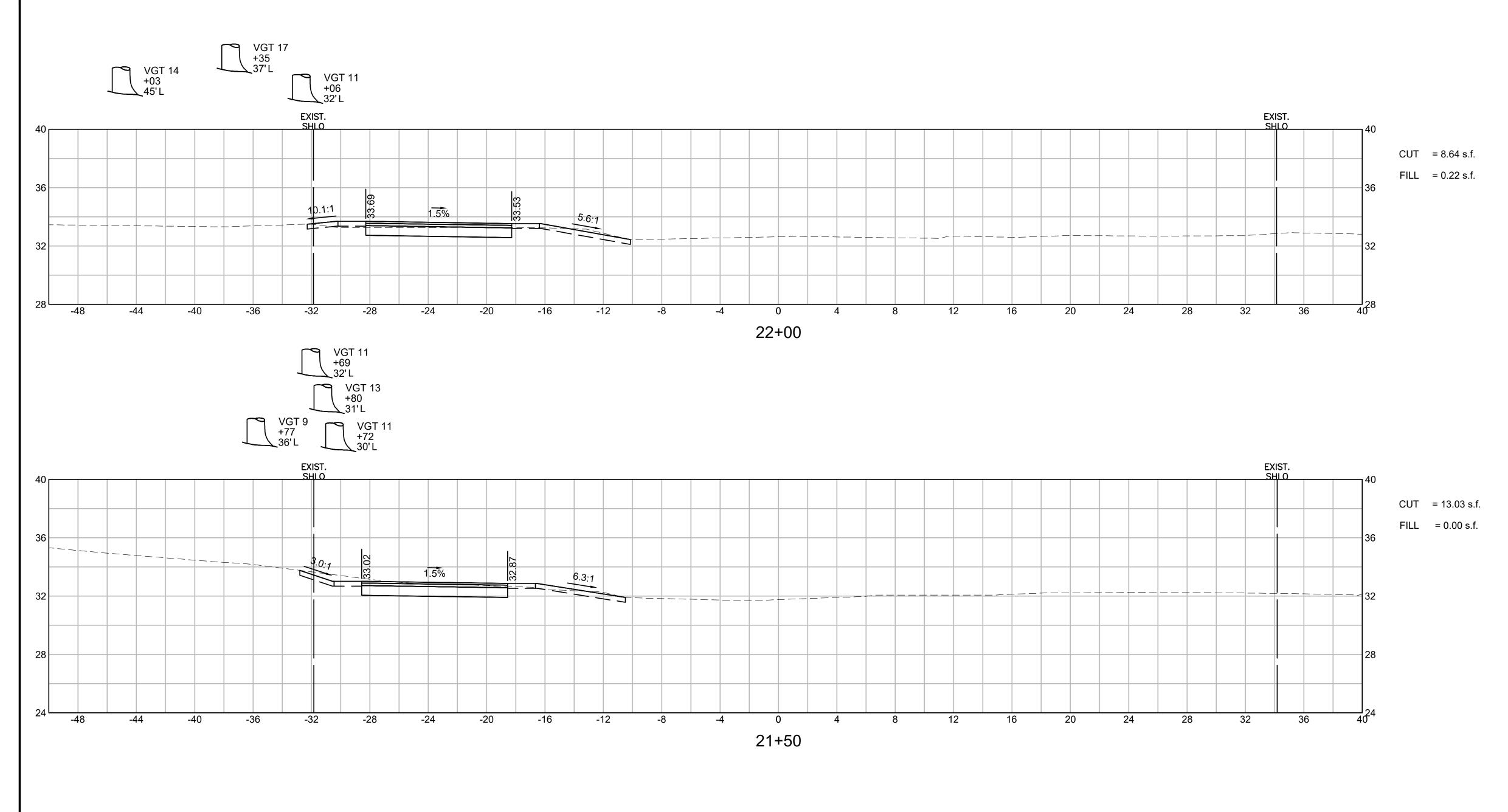


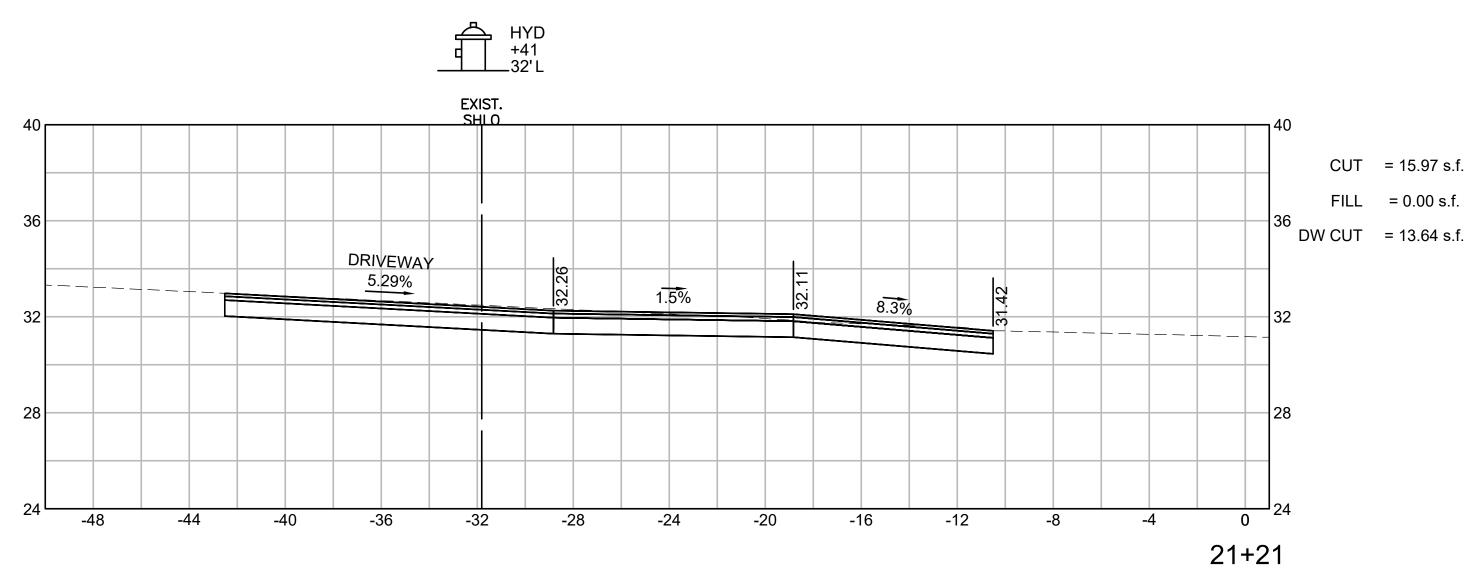






NANTUCKET MILESTONE ROAD AT POLPIS ROAD STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS MA HSI(VUS)-003S(749)X 37 50 PROJECT FILE NO. 613129 CROSS SECTIONS MILESTONE ROAD



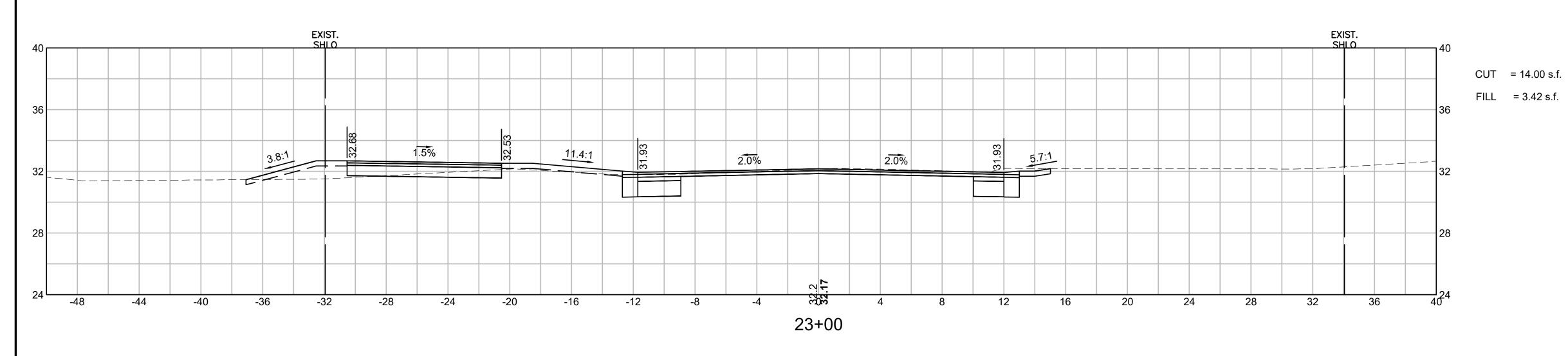




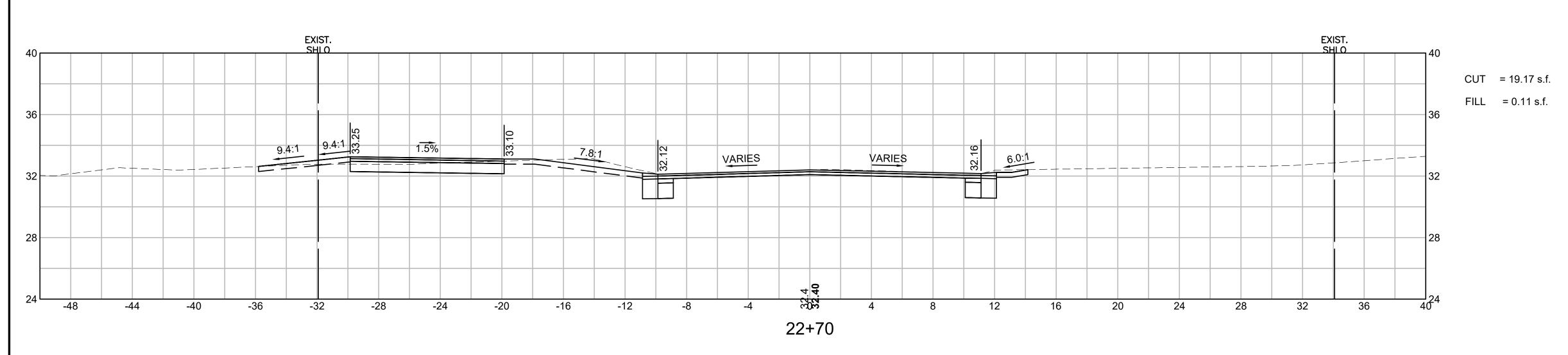
NANTUCKET MILESTONE ROAD AT POLPIS ROAD

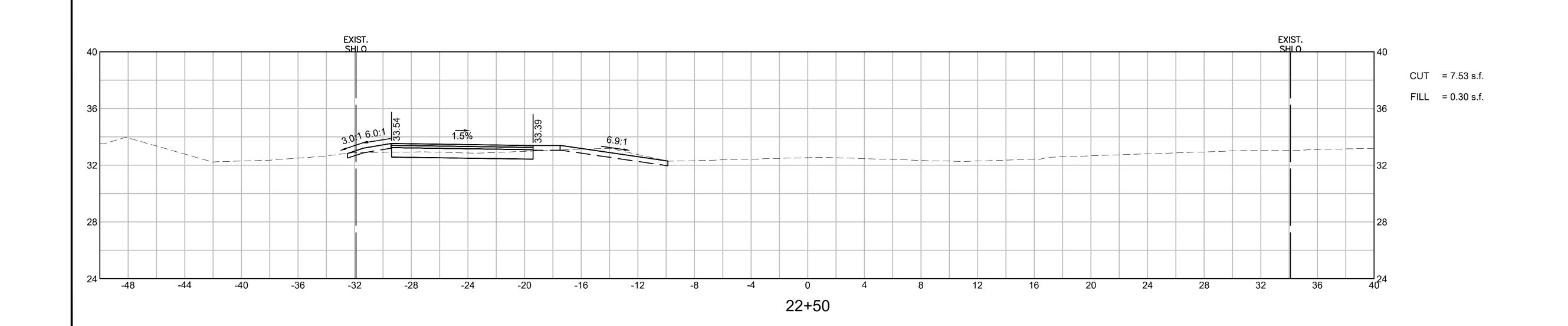
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MA	HSI(VUS)-003S(749)X	38	50
PROJECT FILE NO. 613129			

CROSS SECTIONS MILESTONE ROAD



VGT 11 +73 44'L





HOR. SCALE IN FEET

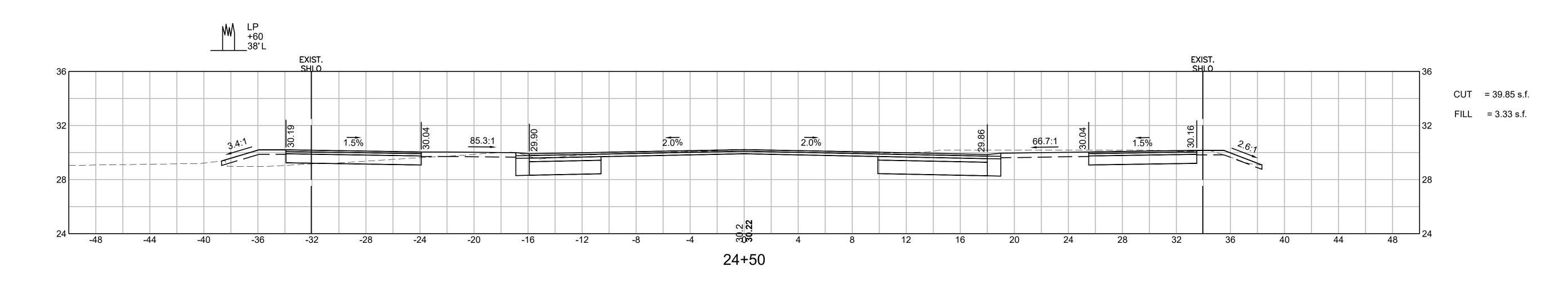
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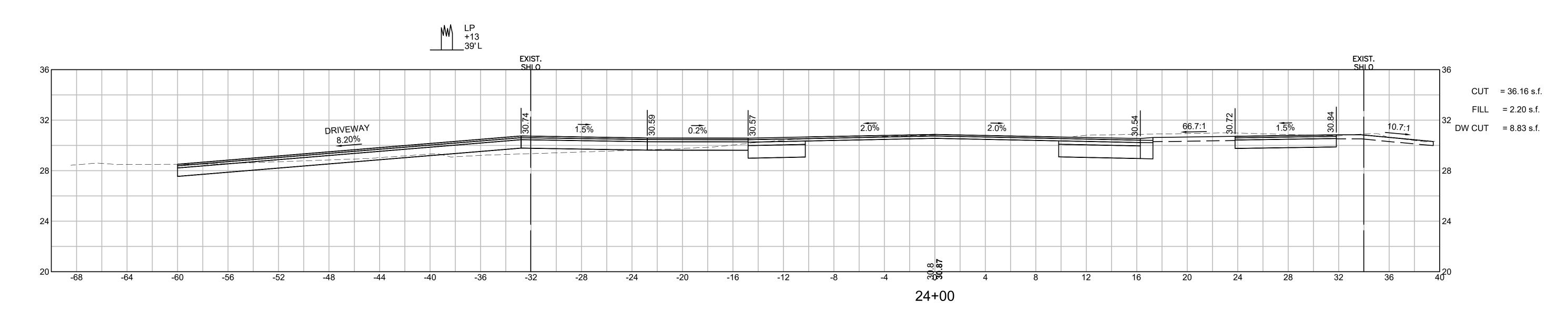
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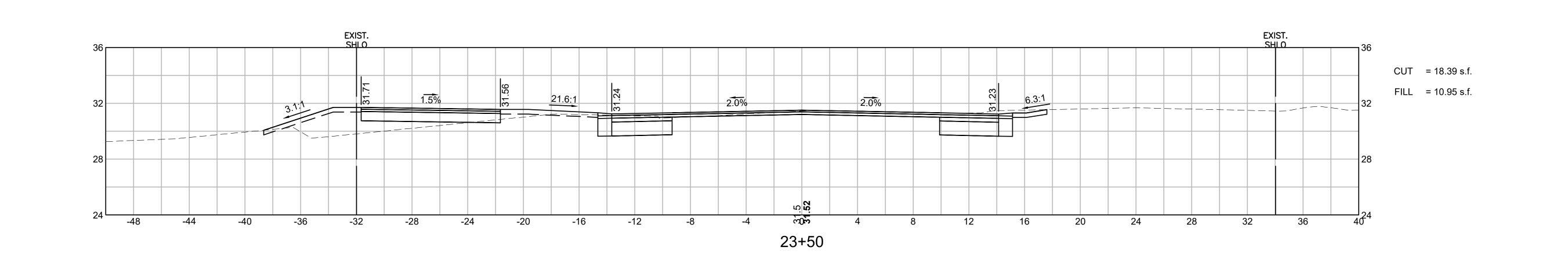
VER SCALE IN FEET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	39	50
	PROJECT FILE NO.	613129	

CROSS SECTIONS MILESTONE ROAD





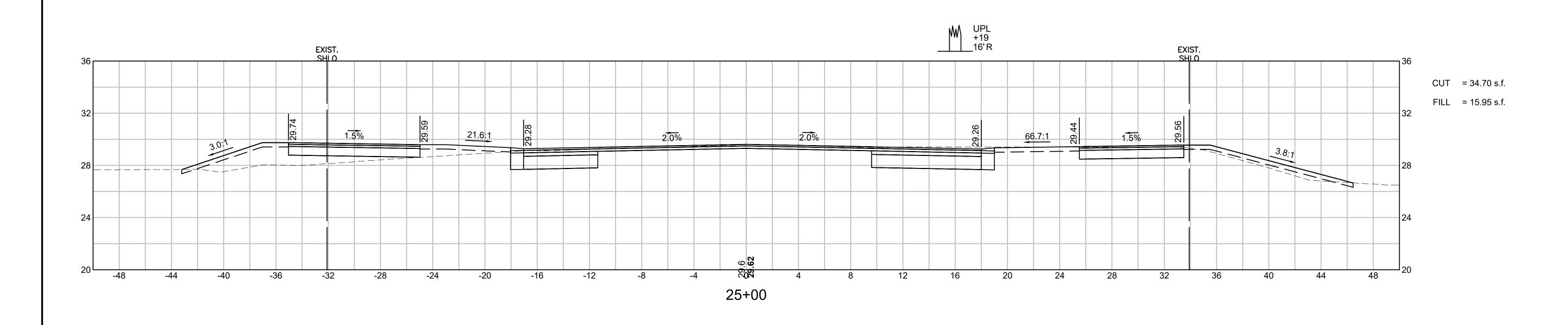


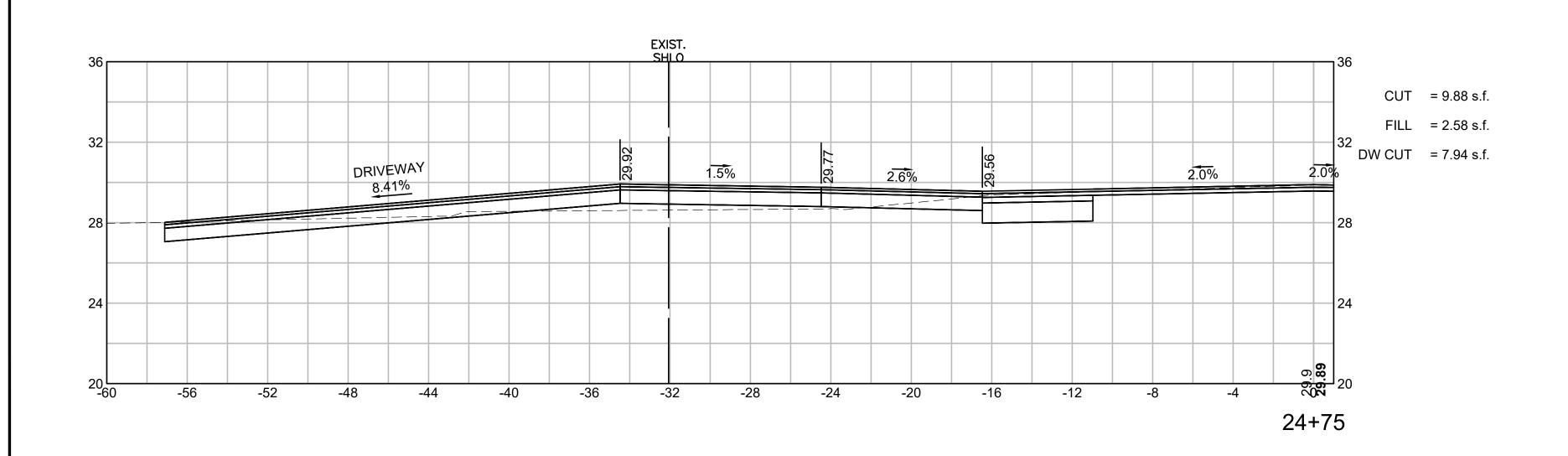
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

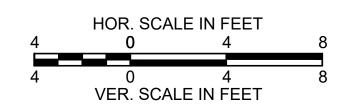
NANTUCKET MILESTONE ROAD AT POLPIS ROAD

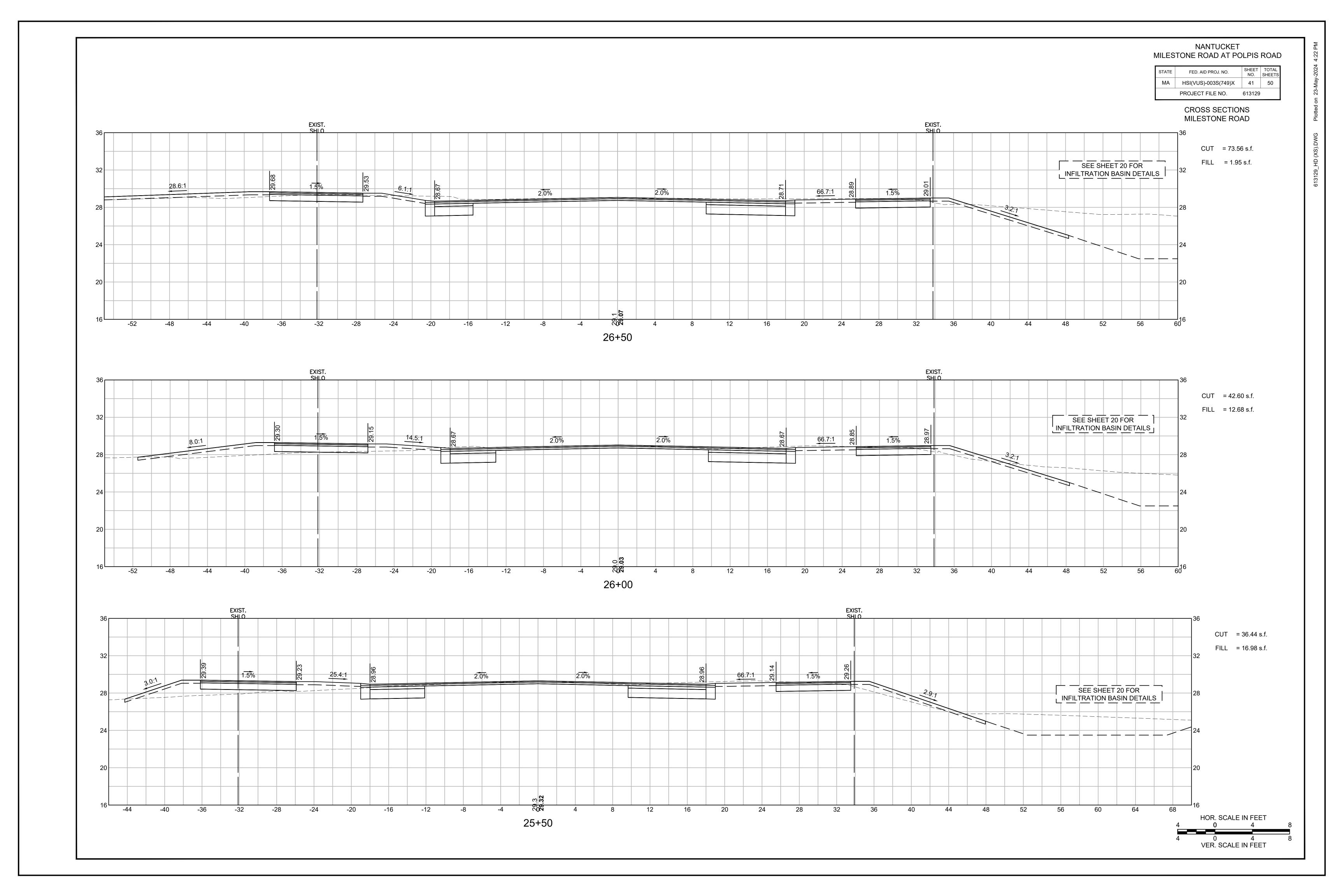
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MA	HSI(VUS)-003S(749)X	40	50
	PROJECT FILE NO.	613129	

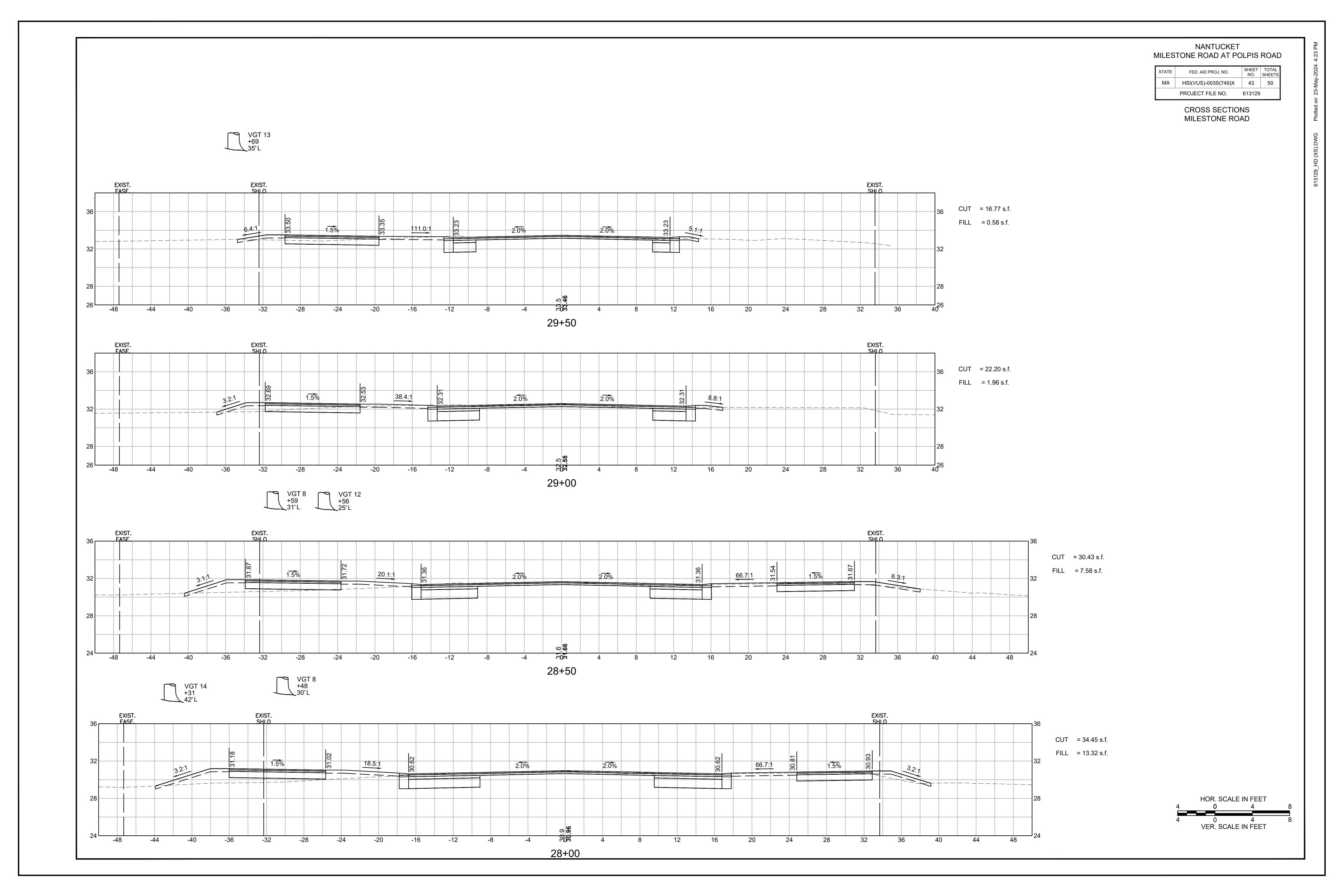
CROSS SECTIONS MILESTONE ROAD

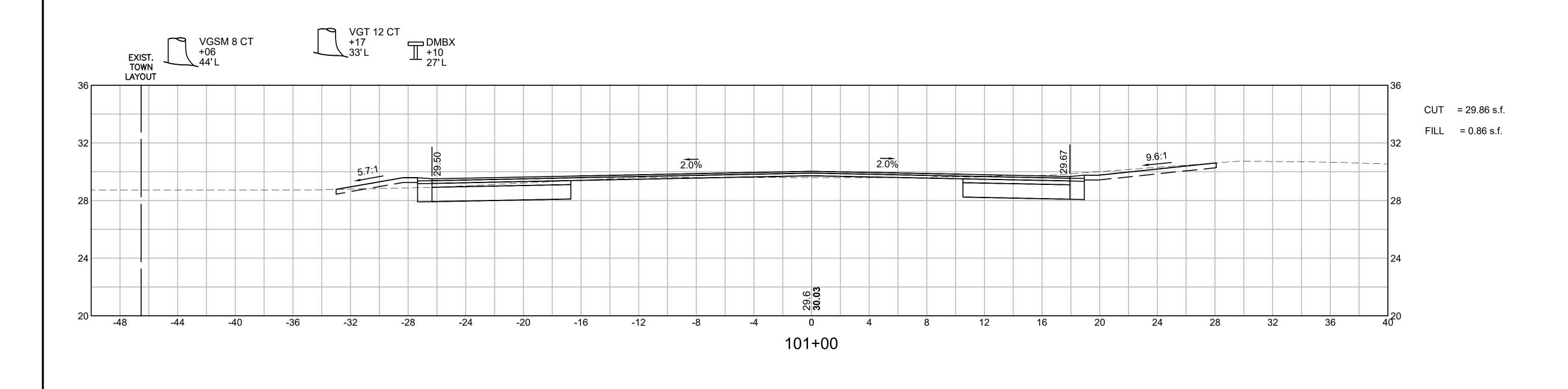


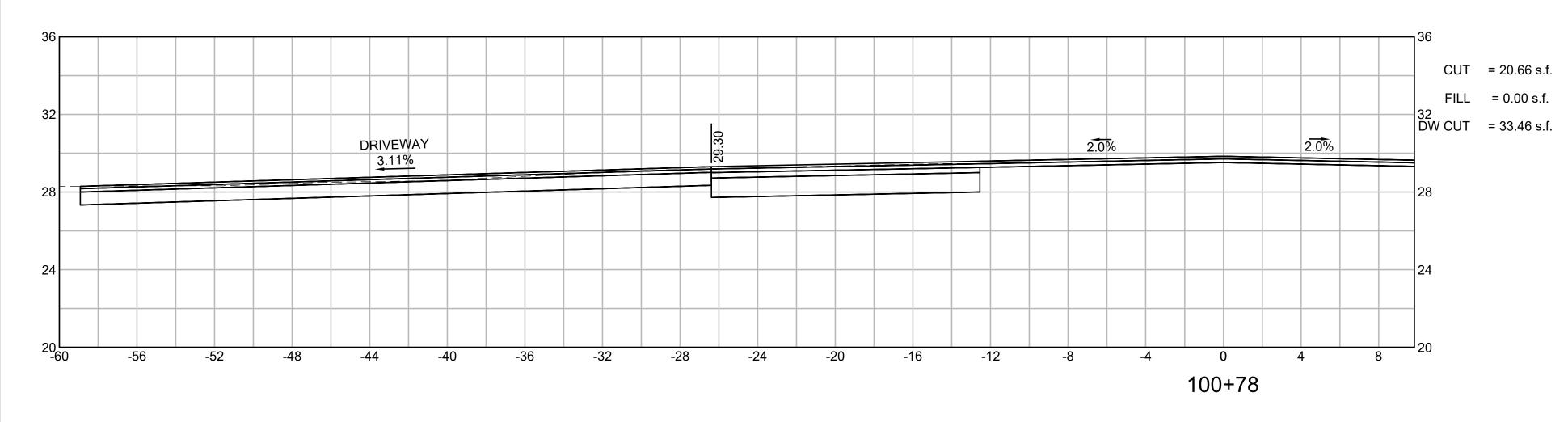


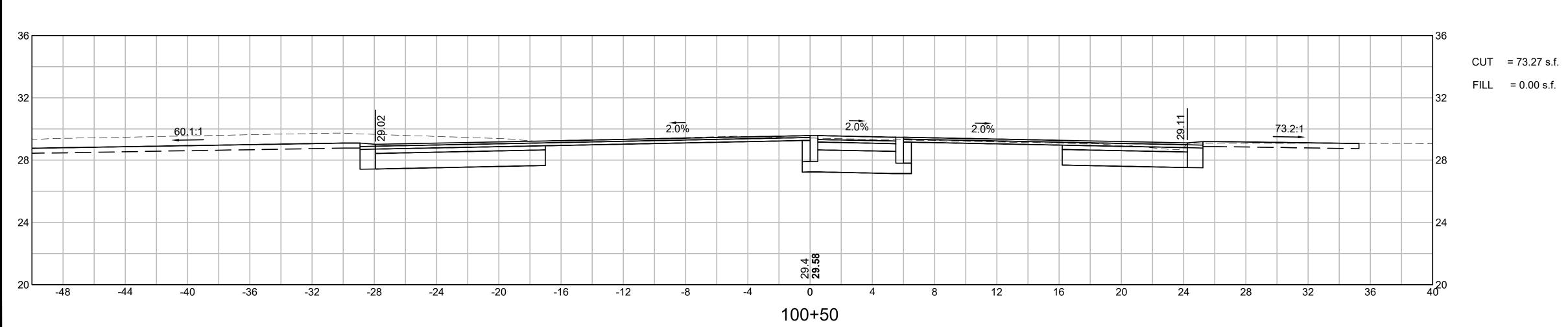


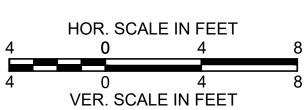






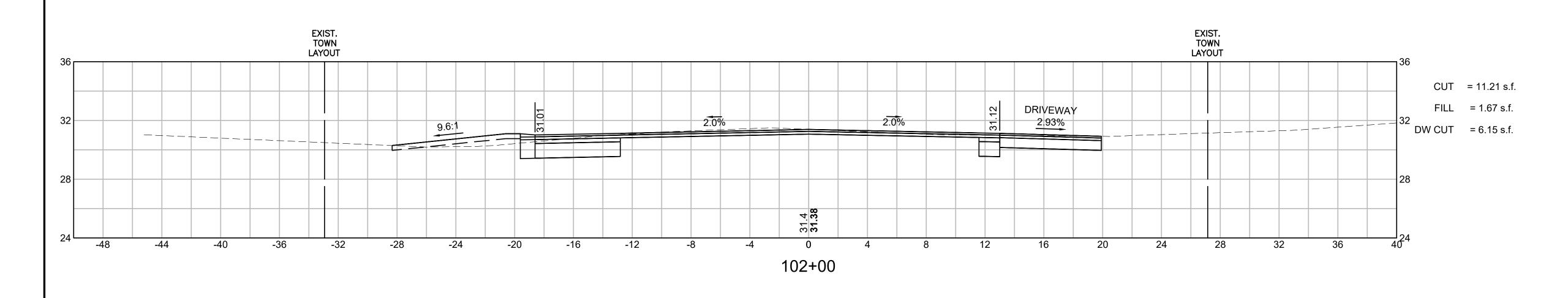


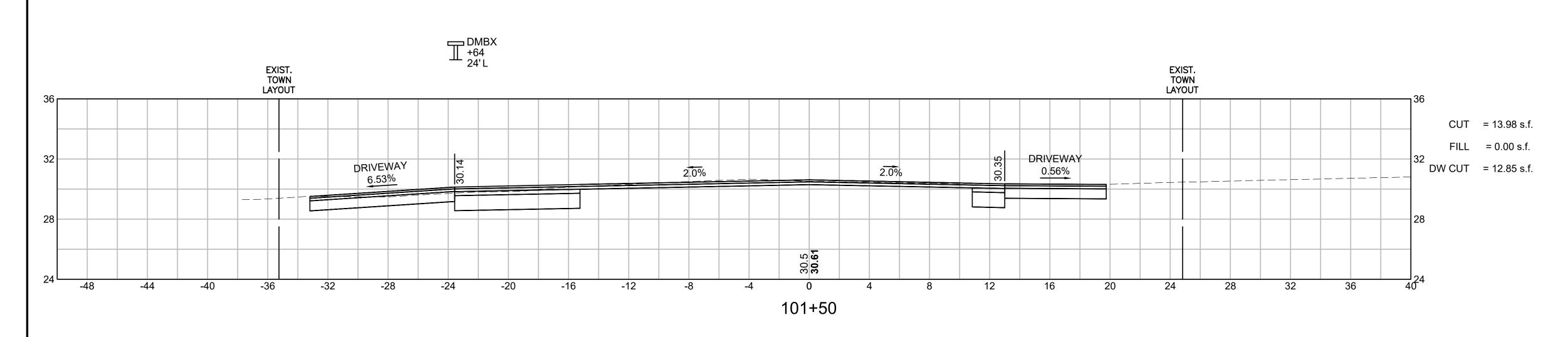


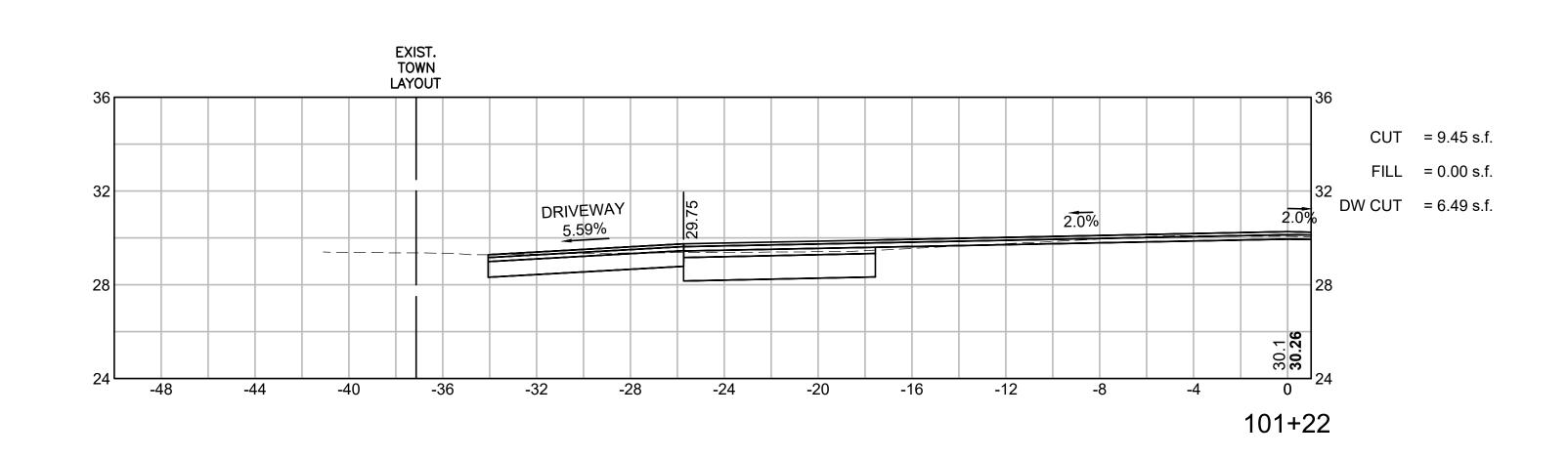


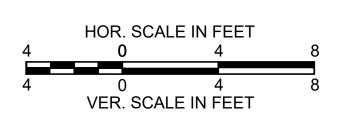
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI(VUS)-003S(749)X	49	50
	613129		

CROSS SECTIONS POLPIS ROAD









NANTUCKET MILESTONE ROAD AT POLPIS ROAD STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS MA HSI(VUS)-003S(749)X 50 50 PROJECT FILE NO. 613129 CROSS SECTIONS POLPIS ROAD EXIST. TOWN LAYOUT EXIST. TOWN LAYOUT CUT = 5.87 s.f.FILL = 0.00 s.f.O.63' NN O.63' VARIES 6.2:1 33.0 **33.00** 102+90 EXIST. TOWN LAYOUT EXIST. TOWN LAYOUT CUT = 8.16 s.f.FILL = 1.36 s.f.DW CUT = 6.26 s.f.DRIVEWAY 3.19% 2.0% 32.3 **32.28** 0 4 VER. SCALE IN FEET 102+50