MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	58
PROJECT FILE NO.	608833		

TITLE SHEET & INDEX

PLAN AND PROFILE OF

MILESTONE ROAD

IN THE TOWN OF

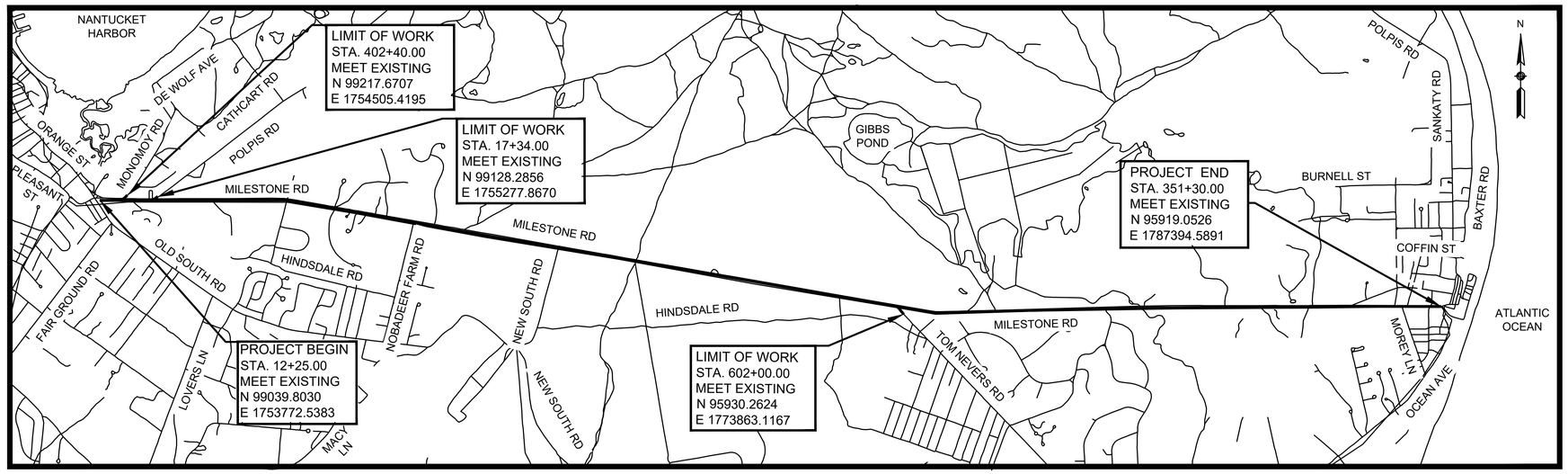
NANTUCKET

NANTUCKET COUNTY

FEDERAL AID PROJECT NO. -

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

100%/PS&E SUBMISSION



MAY 2018

INDEX

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DESIGN DESIGNATION (MILESTONE ROAD)

DESIGN SPEED	45 MPH
ADT (2015)	16,600
ADT (2038)	21,840
K	7.7%
D	53.9% WB
T (PEAK HOUR)	0.7%
T (AVERAGE DAY)	0.8%
DHV	1,685
DDHV	910
FUNCTIONAL CLASSIFICATION	RURAL MAJOR COLLECTOR

0 1500 3000 4500 6000
SCALE: 1" = 1500'

LENGTH OF PROJECT = 34,345.00 FEET = 6.505 MILES

GPI Greenman-Pedersen, Inc.
Engineering & Construction Services
181 Ballardvale Street, Suite 202, Wilmington, MA 01887
Tel: (978) 570-2999 Fax: (978) 658-3044
http://www.gpinet.com

DATE	DESCRIPTION	REV #

massDOT
Massachusetts Department of Transportation
Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

HIGHWAY ADMINISTRATOR DATE

608833_HD (CS).DWG Plotted on 17-May-2018 3:38 PM

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		TRAFFIC SIGN & POST
		BUSH
•SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		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
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE (12" WHITE)
	CW	CROSSWALK (12")
	SWL	SOLID WHITE LINE (6")
	SYL	SOLID YELLOW LINE (6")
	BWL	BROKEN WHITE LINE (6")
	BYL	BROKEN YELLOW LINE (6")
	DWL	DOTTED WHITE LINE (6")
	DYL	DOTTED YELLOW LINE (6")
	DWLEx	DOTTED WHITE LINE EXTENSION (6")
	DYLEx	DOTTED YELLOW LINE EXTENSION (6")
	DBWL	DOUBLE WHITE LINE (6")
	DBYL	DOUBLE YELLOW LINE (6")

BROKEN LINES TO BE 10' IN LENGTH WITH 30' GAP (TYP.)
DOTTED LINES TO BE 2' IN LENGTH WITH 6' GAP (TYP.)

GENERAL NOTES

1. TOPOGRAPHICAL INFORMATION WAS PROVIDED BY MASSDOT, AUGUST 2017 (508-824-6633). SUPPLEMENT SURVEY WAS PROVIDED BY GREENMAN-PEDERSEN, INC., JANUARY 2018. VERTICAL DATUM IS BASED ON NAVD88. HORIZONTAL DATUM IS BASED ON MA ISLAND ZONE NAD83 (2011).
2. THE LOCATIONS AND SIZES OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
3. WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
6. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R&R).
7. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
8. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
9. ALL EXISTING STATE, COUNTY, CITY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
10. ALL JOINTS BETWEEN NEW SURFACE PAVEMENT AND EXISTING SURFACE PAVEMENT TO REMAIN SHALL BE COATED WITH A HOT MIX ASPHALT JOINT SEALANT MEETING SPECIAL PROVISION ITEM 453.
11. ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM BORROW PLACED AND SEEDED. THE LOAM BORROW SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
12. THE LIMIT OF WORK AREA SHALL BE THE STREET RIGHT OF WAY UNLESS SHOWN OTHERWISE.
13. PRIOR TO THE START OF ANY NEW UTILITY WORK, ALL ELEVATIONS OF EXISTING UTILITIES IN THOSE AREAS ARE TO BE VERIFIED. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY SHOULD ANY DISCREPANCIES OCCUR.
14. ALL CASTINGS SHALL BE SET FLUSH WITH FINISHED GRADE.
15. ALL PUBLICLY OWNED GATE BOXES, SERVICE BOXES, MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
16. ALL NEW SIDEWALKS AND DRIVEWAY GRADES SHALL MATCH EXISTING GRADES AT BACK OF SIDEWALK LINE UNLESS SHOWN OTHERWISE ON THE PLANS AND CROSS-SECTIONS.
17. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT ALL EXISTING TREES AND ROOTS THAT ARE NOT DESIGNATED FOR REMOVAL.
18. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

NANTUCKET
MILESTONE ROAD

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MA	-	2	58
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LEGEND & ABBREVIATIONS

GENERAL ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC	DWY	DRIVEWAY	P.G.L.	PROFILE GRADE LINE	T	TANGENT DISTANCE OF CURVE/TRUCK %
ABAN	ABANDON	ELEV (or EL.)	ELEVATION	PI	POINT OF INTERSECTION	TAN	TANGENT
ADJ	ADJUST	EMB	EMBANKMENT	POC	POINT ON CURVE	TEMP	TEMPORARY
APPROX.	APPROXIMATE	EOP	EDGE OF PAVEMENT	POT	POINT ON TANGENT	TC	TOP OF CURB
A.C.	ASPHALT CONCRETE	EXIST (or EX)	EXISTING	PRC	POINT OF REVERSE CURVATURE	TOS	TOP OF SLOPE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	EXC	EXCAVATION	PROJ	PROJECT	TYP	TYPICAL
BIT.	BITUMINOUS	F&C	FRAME AND COVER	PROP	PROPOSED	UP	UTILITY POLE
BC	BOTTOM OF CURB	F&G	FRAME AND GRATE	PSB	PLANTABLE SOIL BORROW	VAR	VARIES
BD.	BOUND	FDN.	FOUNDATION	PT	POINT OF TANGENCY	VERT	VERTICAL
BL	BASELINE	FLDSTN	FIELDSTONE	PVC	POINT OF VERTICAL CURVATURE	VC	VERTICAL CURVE
BLDG	BUILDING	GAR	GARAGE	PVCC	POINT OF VERTICAL COMPOUND CURVATURE	WCR	WHEEL CHAIR RAMP
BM	BENCHMARK	GD	GROUND	PVI	POINT OF VERTICAL INTERSECTION	WG	WATER GATE
BO	BY OTHERS	GG	GAS GATE	PVRC	POINT OF VERTICAL REVERSE CURVATURE	WIP	WROUGHT IRON PIPE
BOS	BOTTOM OF SLOPE	GI	GUTTER INLET	PVT	POINT OF VERTICAL TANGENCY	WM	WATER METER/WATER MAIN
BR.	BRIDGE	GIP	GALVANIZED IRON PIPE	PVMT	PAVEMENT	X-SECT	CROSS SECTION
CB	CATCH BASIN	GRAN	GRANITE	PWW	PAVED WATER WAY		
CBCI	CATCH BASIN WITH CURB INLET	GRAV	GRAVEL	R	RADIUS OF CURVATURE		
CC	CEMENT CONCRETE	GRD	GUARD	R&D	REMOVE AND DISPOSE		
CCM	CEMENT CONCRETE MASONRY	HDW	HEADWALL	RCP	REINFORCED CONCRETE PIPE		
CEM	CEMENT	HMA	HOT MIX ASPHALT	RD	ROAD		
CI	CURB INLET	HOR	HORIZONTAL	RDWY	ROADWAY		
CIP	CAST IRON PIPE	HYD	HYDRANT	REM	REMOVE		
CIT	CHANGE IN TYPE	INV	INVERT	RET	RETAIN		
CLF	CHAIN LINK FENCE	JCT	JUNCTION	RET WALL	RETAINING WALL		
CL	CENTERLINE	L	LENGTH OF CURVE	ROW	RIGHT OF WAY		
CMP	CORRUGATED METAL PIPE	LB	LEACH BASIN	RR	RAILROAD		
CSP	CORRUGATED STEEL PIPE	LP	LIGHT POLE	R&R	REMOVE AND RESET		
CO.	COUNTY	LT	LEFT	R&S	REMOVE AND STACK		
CONC	CONCRETE	MAX	MAXIMUM	RT	RIGHT		
CONT	CONTINUOUS	MB	MAILBOX	SB	STONE BOUND		
CONST	CONSTRUCTION	MH	MANHOLE	SHLD	SHOULDER		
CR GR	CROWN GRADE	MHB	MASSACHUSETTS HIGHWAY BOUND	SMH	SEWER MANHOLE		
DHV	DESIGN HOURLY VOLUME	MIN	MINIMUM	ST	STREET		
DI	DROP INLET	NIC	NOT IN CONTRACT	STA	STATION		
DIA	DIAMETER	NO.	NUMBER	SSD	STOPPING SIGHT DISTANCE		
DIP	DUCTILE IRON PIPE	PC	POINT OF CURVATURE	SHLO	STATE HIGHWAY LAYOUT LINE		
DW	STEADY DON'T WALK - PORTLAND ORANGE	PCC	POINT OF COMPOUND CURVATURE	SW	SIDEWALK		

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MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	3	58
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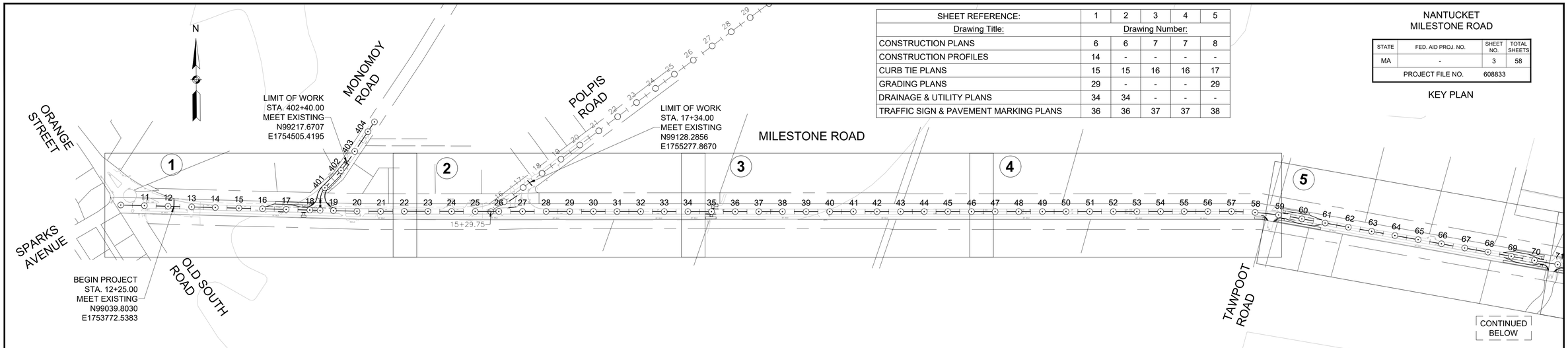
KEY PLAN

SHEET REFERENCE:	1	2	3	4	5
Drawing Title:	Drawing Number:				
CONSTRUCTION PLANS	6	6	7	7	8
CONSTRUCTION PROFILES	14	-	-	-	-
CURB TIE PLANS	15	15	16	16	17
GRADING PLANS	29	-	-	-	29
DRAINAGE & UTILITY PLANS	34	34	-	-	-
TRAFFIC SIGN & PAVEMENT MARKING PLANS	36	36	37	37	38



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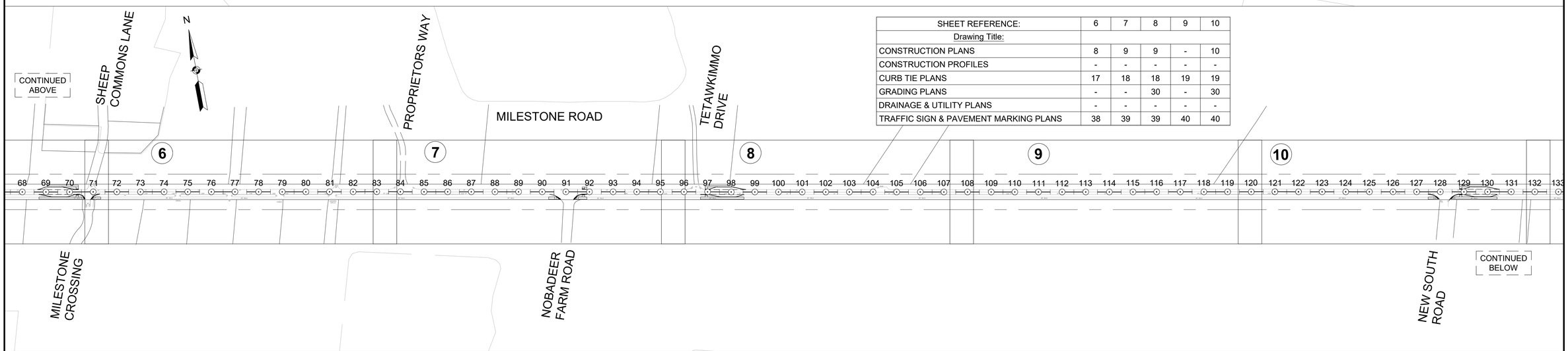
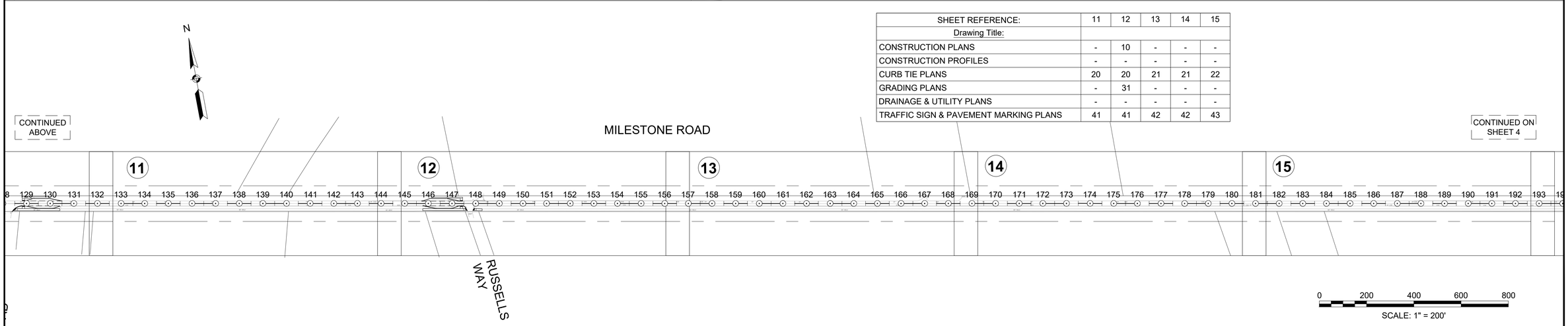
Drawing Title:					
CONSTRUCTION PLANS	8	9	9	-	10
CONSTRUCTION PROFILES	-	-	-	-	-
CURB TIE PLANS	17	18	18	19	19
GRADING PLANS	-	-	30	-	30
DRAINAGE & UTILITY PLANS	-	-	-	-	-
TRAFFIC SIGN & PAVEMENT MARKING PLANS	38	39	39	40	40



SHEET REFERENCE:	11	12	13	14	15
Drawing Title:					
CONSTRUCTION PLANS	-	10	-	-	-
CONSTRUCTION PROFILES	-	-	-	-	-
CURB TIE PLANS	20	20	21	21	22
GRADING PLANS	-	31	-	-	-
DRAINAGE & UTILITY PLANS	-	-	-	-	-
TRAFFIC SIGN & PAVEMENT MARKING PLANS	41	41	42	42	43



0 200 400 600 800
SCALE: 1" = 200'

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NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	4	58
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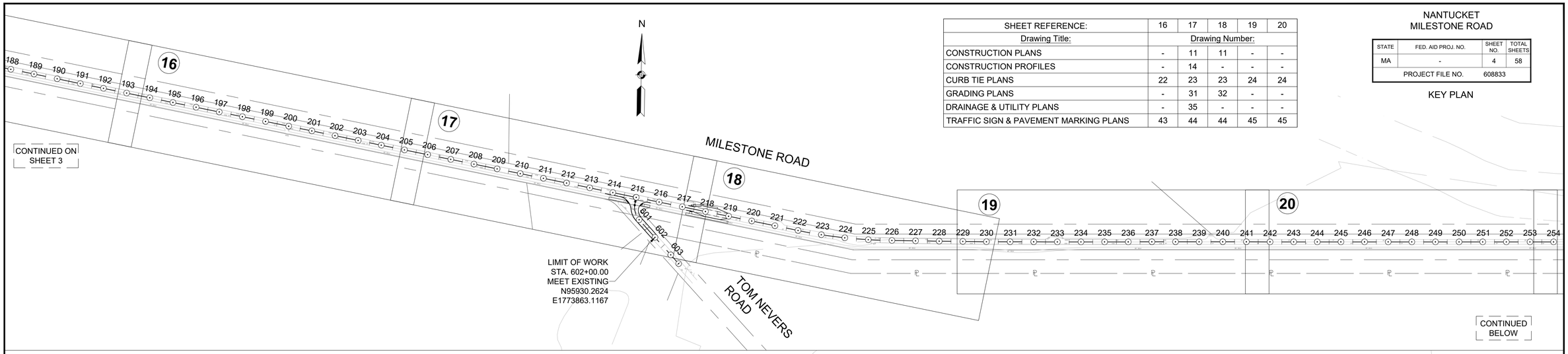
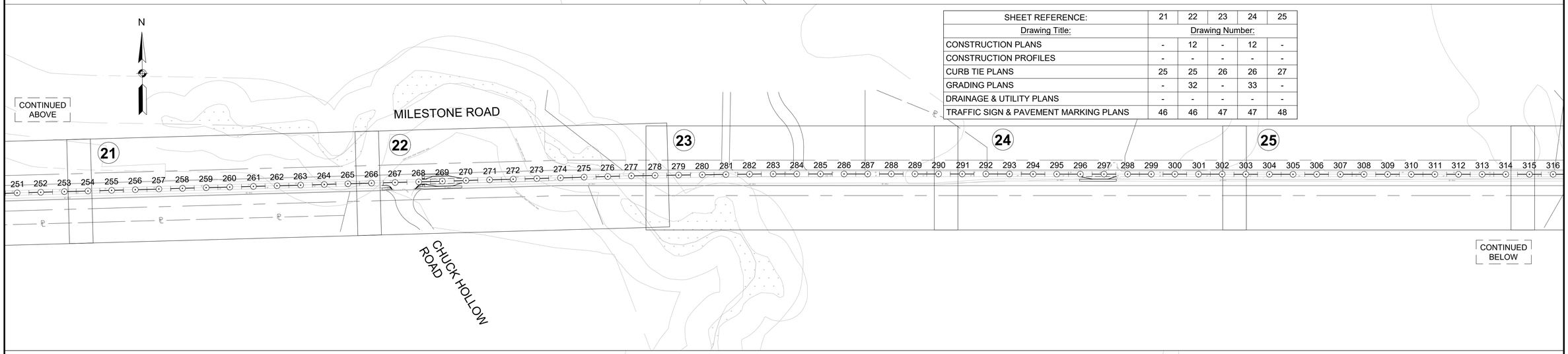
KEY PLAN

SHEET REFERENCE:	16	17	18	19	20
Drawing Title:	Drawing Number:				
CONSTRUCTION PLANS	-	11	11	-	-
CONSTRUCTION PROFILES	-	14	-	-	-
CURB TIE PLANS	22	23	23	24	24
GRADING PLANS	-	31	32	-	-
DRAINAGE & UTILITY PLANS	-	35	-	-	-
TRAFFIC SIGN & PAVEMENT MARKING PLANS	43	44	44	45	45



SHEET REFERENCE:	21	22	23	24	25
Drawing Title:	Drawing Number:				
CONSTRUCTION PLANS	-	12	-	12	-
CONSTRUCTION PROFILES	-	-	-	-	-
CURB TIE PLANS	25	25	26	26	27
GRADING PLANS	-	32	-	33	-
DRAINAGE & UTILITY PLANS	-	-	-	-	-
TRAFFIC SIGN & PAVEMENT MARKING PLANS	46	46	47	47	48



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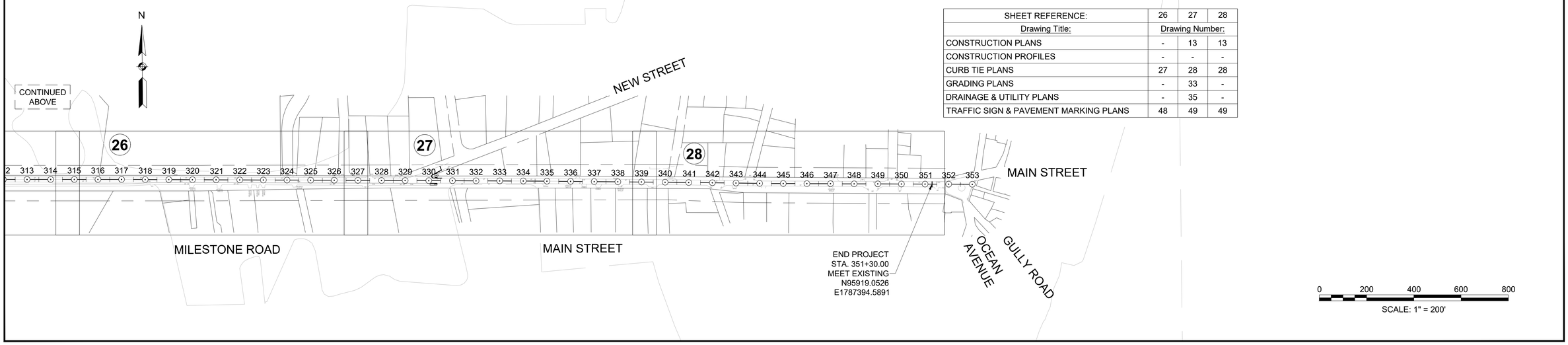
Drawing Title:	Drawing Number:		
CONSTRUCTION PLANS	-	13	13
CONSTRUCTION PROFILES	-	-	-
CURB TIE PLANS	27	28	28
GRADING PLANS	-	33	-
DRAINAGE & UTILITY PLANS	-	35	-
TRAFFIC SIGN & PAVEMENT MARKING PLANS	48	49	49



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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	5	58
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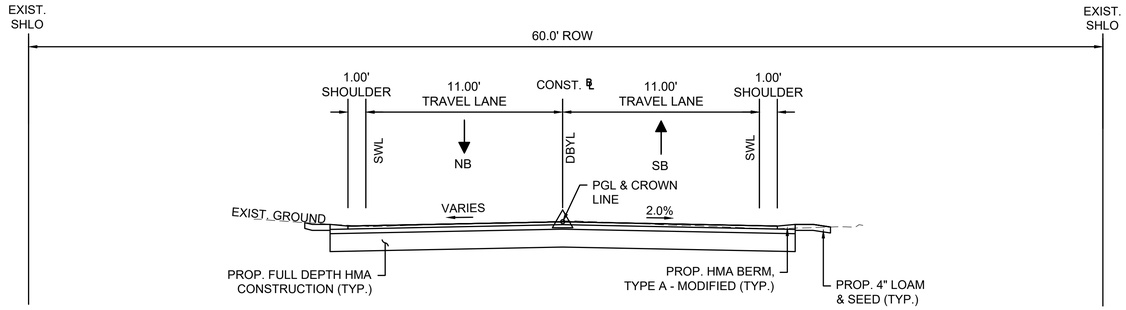
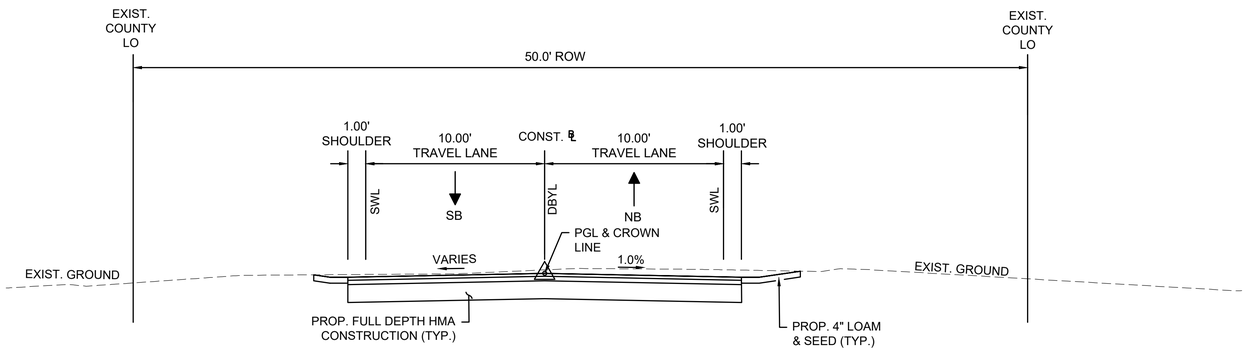
TYPICAL SECTIONS



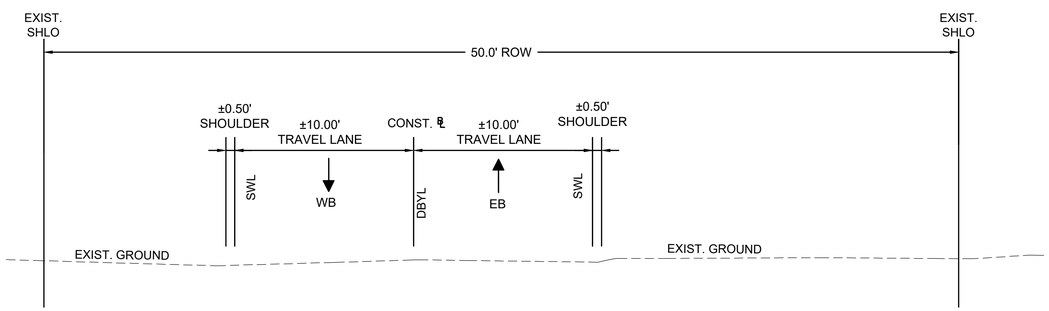
TYPICAL SECTION - TOM NEVERS ROAD

STA. 601+00 - 601+75



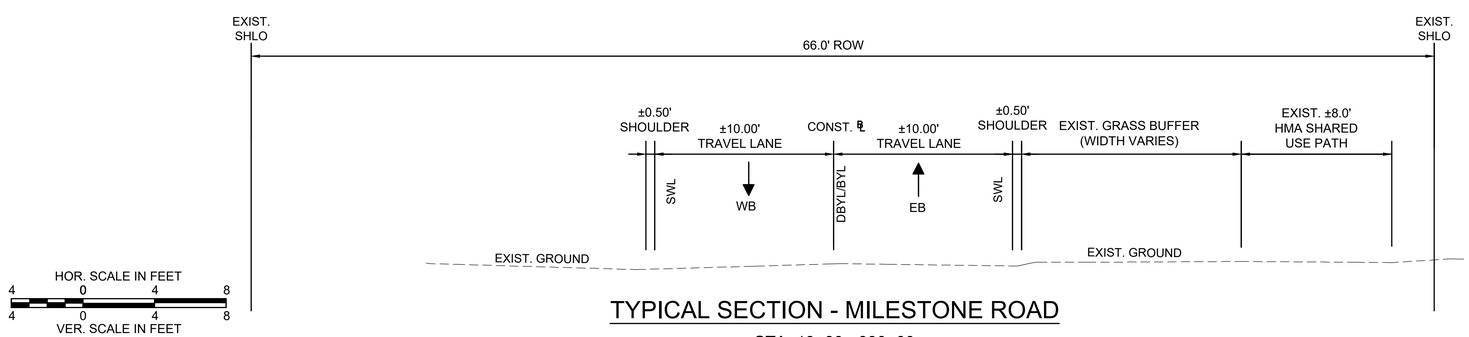
TYPICAL SECTION - MONOMOY ROAD

STA. 401+10 - 402+15



TYPICAL SECTION - MAIN STREET

STA. 330+00 - 351+30



TYPICAL SECTION - MILESTONE ROAD

STA. 13+80 - 330+00

PAVEMENT NOTES

FULL DEPTH HMA CONSTRUCTION

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER
3" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

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

CEMENT CONCRETE SIDEWALKS & WHEELCHAIR 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 PATH

SURFACE COURSE: 1 ½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B

HMA SIDEWALK

SURFACE COURSE: 1" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
1 ½" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B

GENERAL NOTES:

1. ALL SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% (0.015FT/FT). TOLERANCE FOR CONSTRUCTION SHALL BE ±0.50%. IN NO CASE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2.0% (0.02 FT/FT). SIDEWALKS SHALL HAVE A MINIMUM CLEAR PATH OF 36" FREE OF OBSTRUCTION (UTILITY POLES, HYDRANTS, ETC.).

2. THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE EITHER AT INTERSECTIONS OR ARE IN AREAS OF TRANSITION AND THEREFORE HAVE NOT BEEN SHOWN. THESE SECTIONS ARE:

   STA. 12+25 TO STA. 13+80 MILESTONE ROAD
   STA. 400+00 TO STA. 401+10 MONOMOY ROAD
   STA. 402+15 TO STA. 402+40 MONOMOY ROAD
   STA. 600+00 TO STA. 601+00 TOM NEVERS ROAD
   STA. 601+75 TO STA. 602+00 TOM NEVERS ROAD

3. ASPHALT EMULSION FOR TACK COAT SHALL BE (RS-1H) TO RESIST TRACKING BY HAUL VEHICLES. HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE IN ACCORDANCE WITH SECTION 450. QUALITY ASSURANCE FOR HMA.

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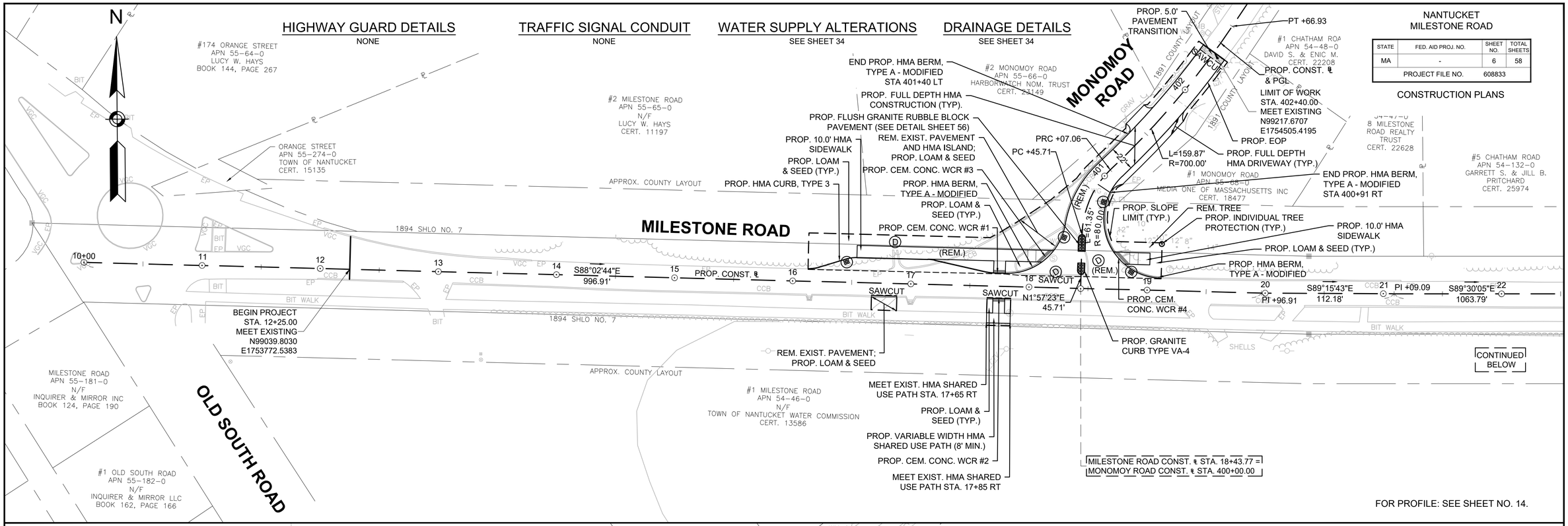
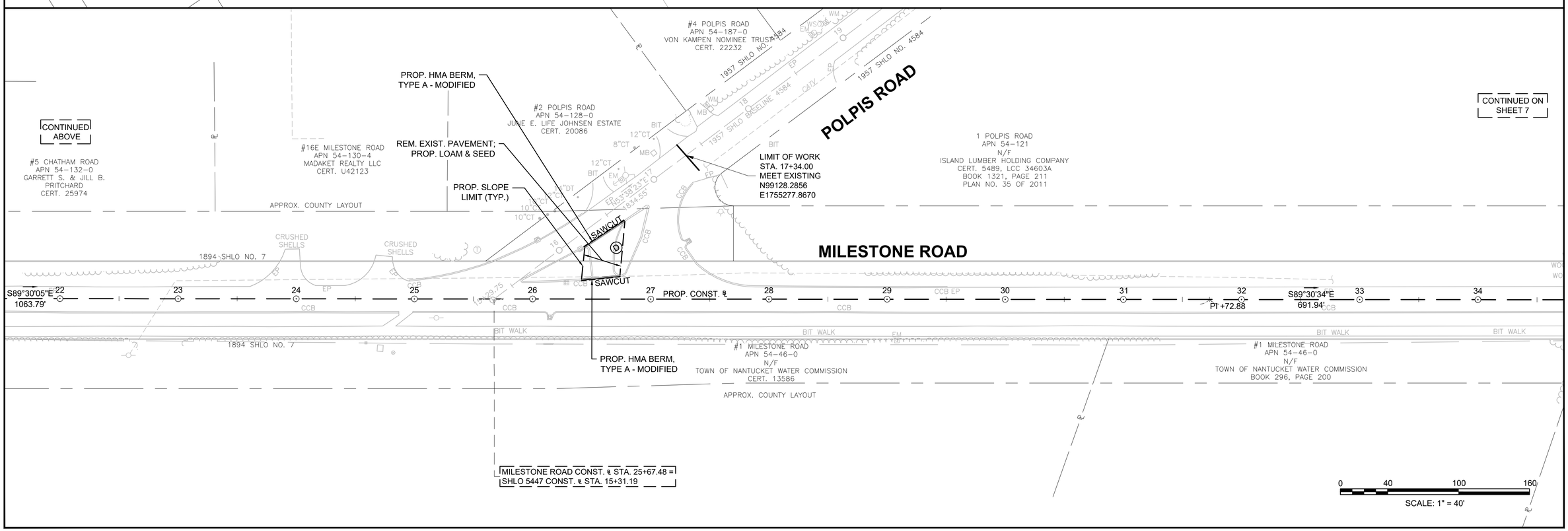
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET 34	SEE SHEET 34

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	6	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS





608833_HD (CO).DWG Plotted on 18-May-2018 8:02 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

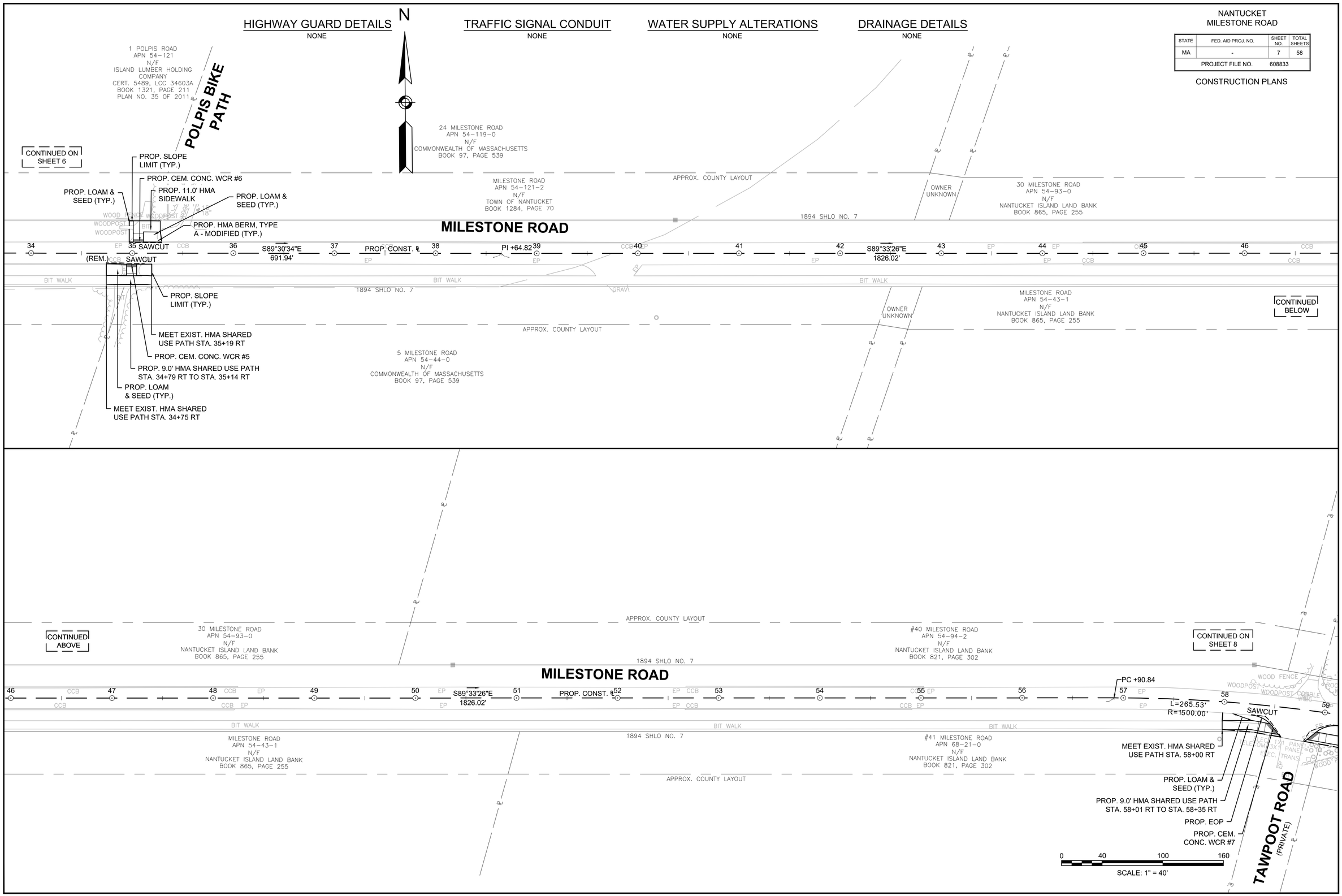
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
NONE

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	7	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS



608833_HD (CO).DWG Plotted on 18-May-2018 8:02 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

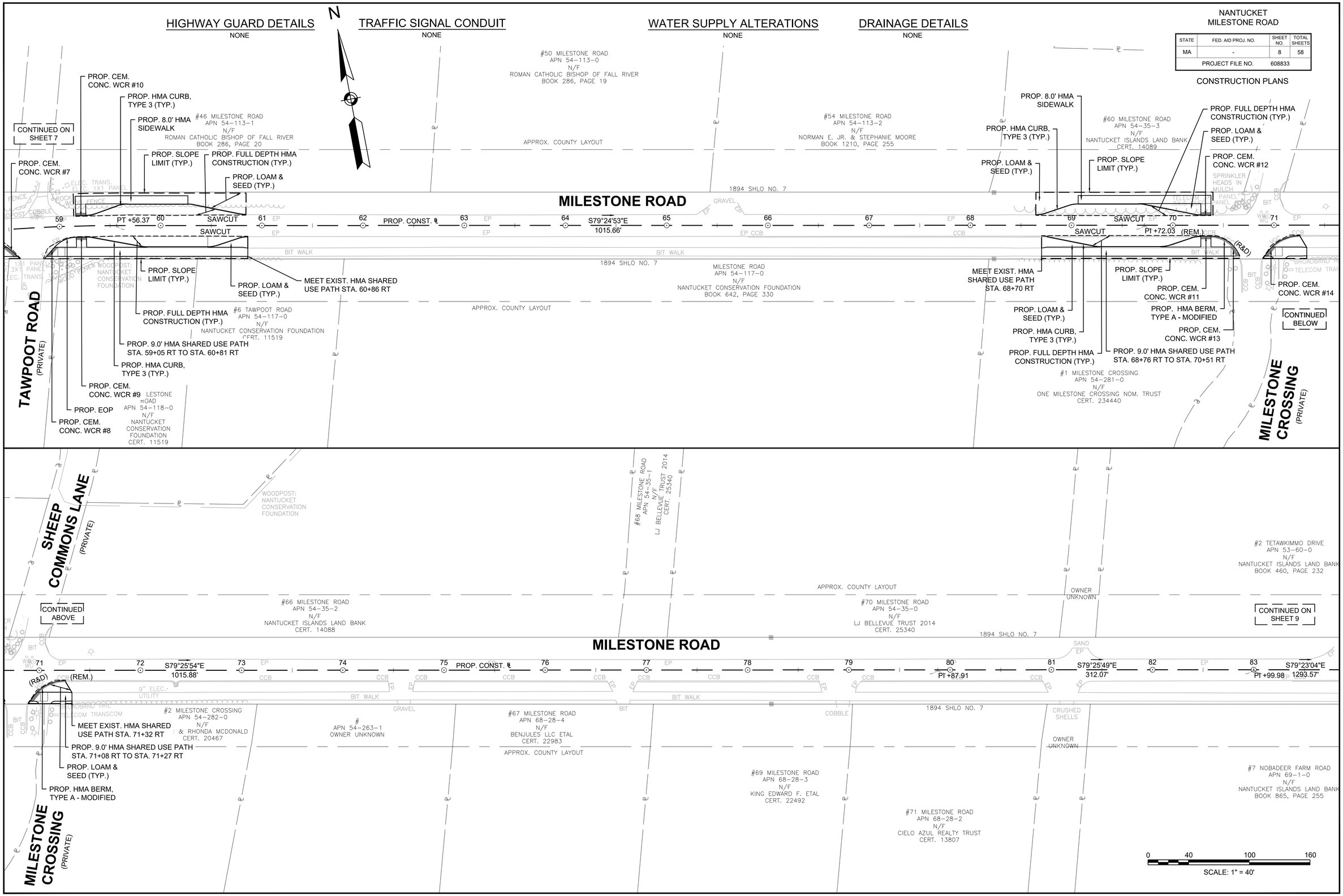
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
NONE

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS



608833_HD (CO).DWG Plotted on 18-May-2018 8:03 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

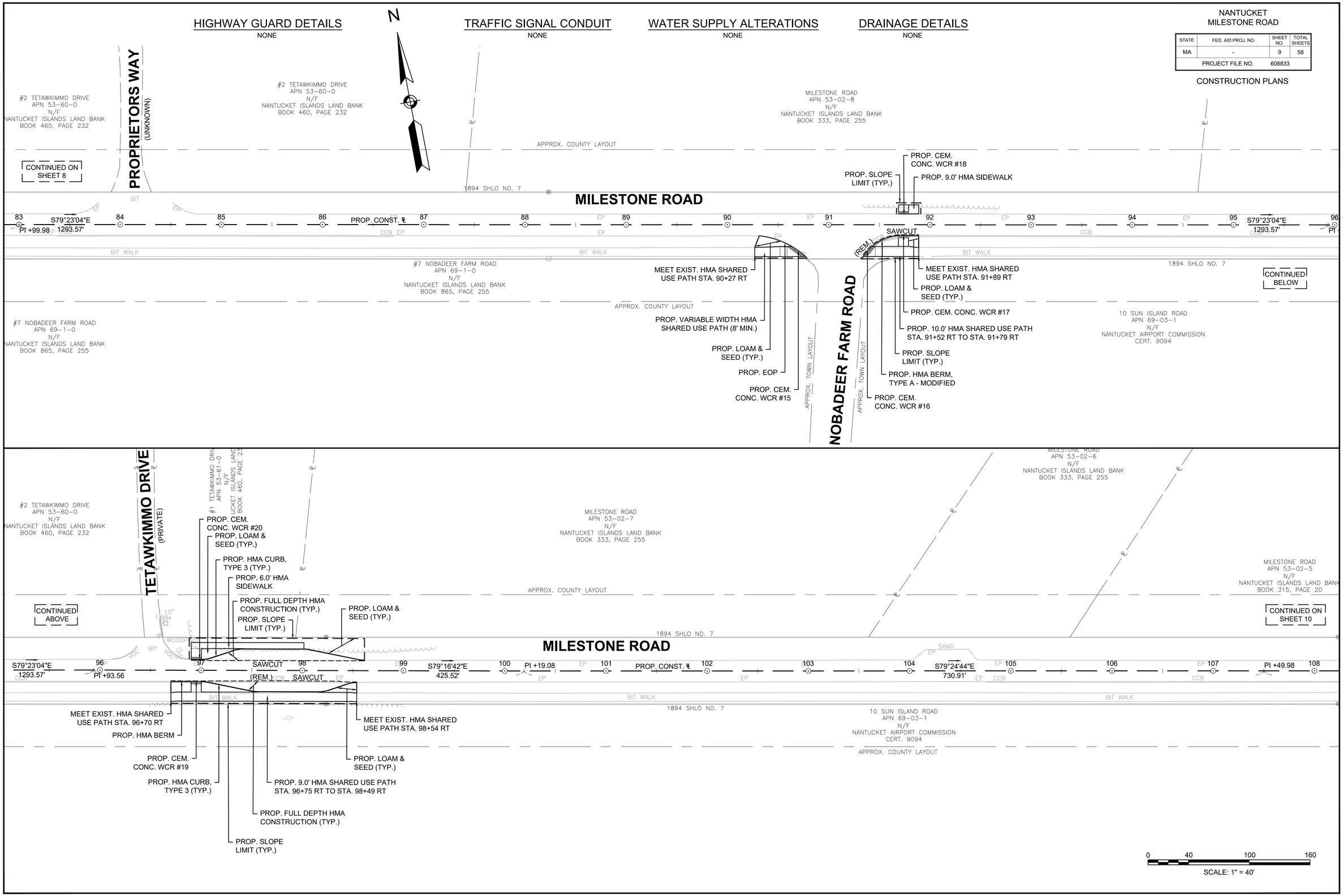
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
NONE

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS



608833_HD (CO).DWG Plotted on 18-May-2018 8:03 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

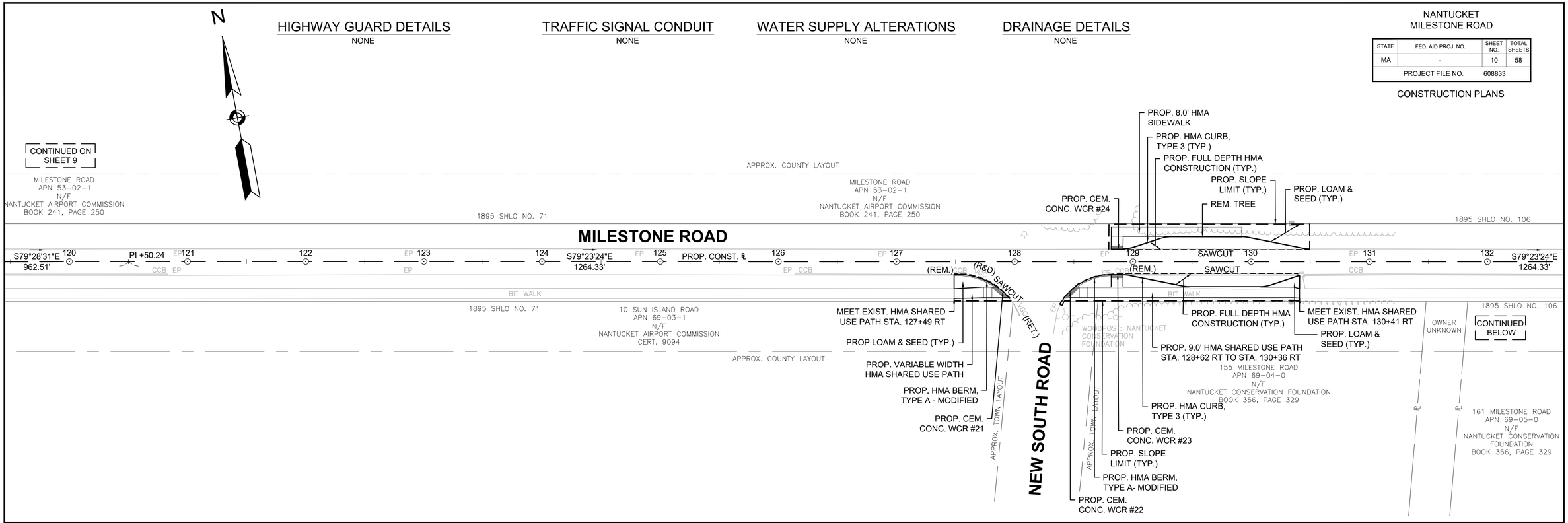
WATER SUPPLY ALTERATIONS
NONE

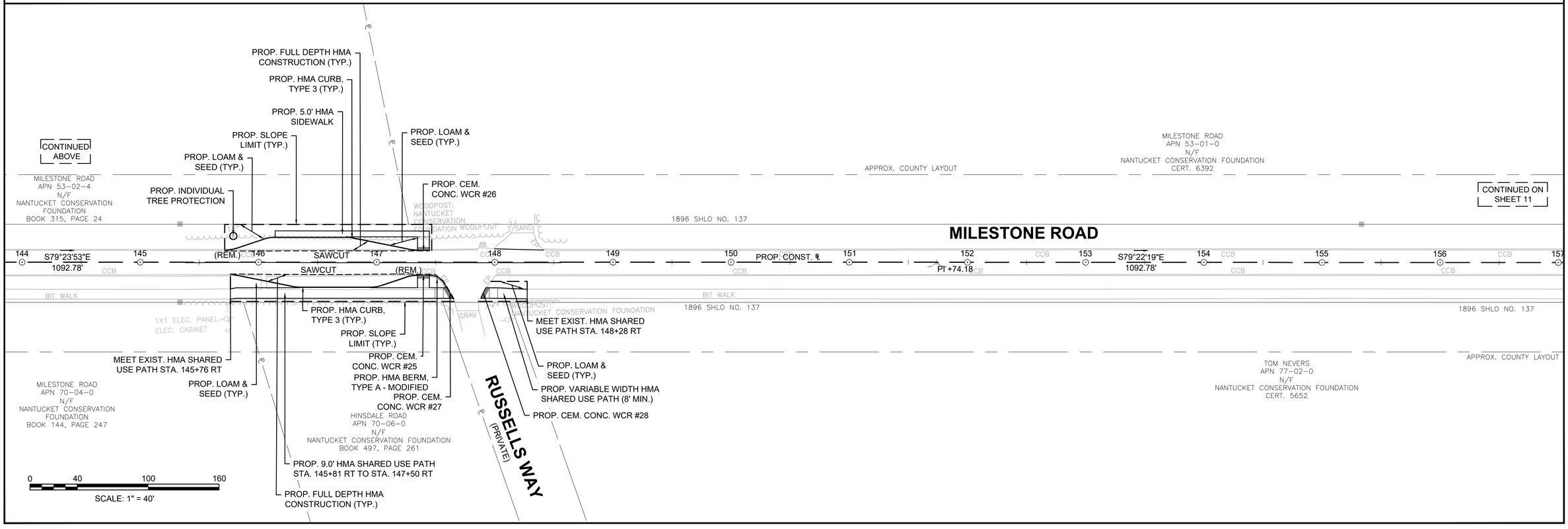
DRAINAGE DETAILS
NONE

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS





608833_HD (CO).DWG Plotted on 18-May-2018 8:03 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

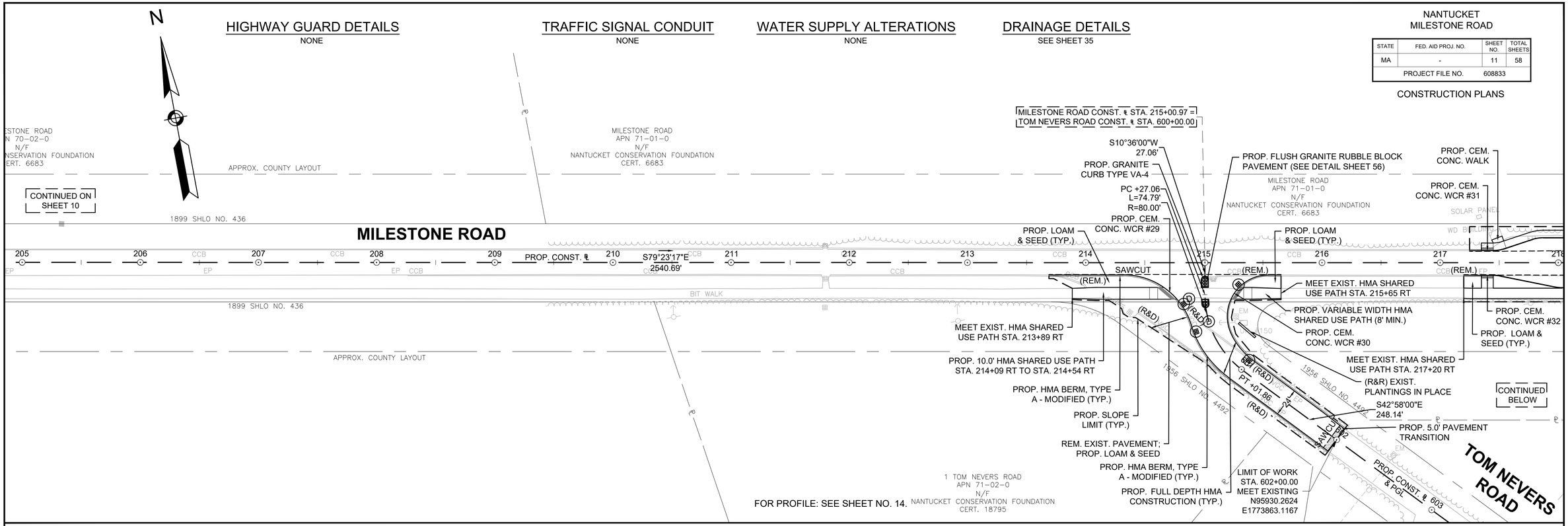
WATER SUPPLY ALTERATIONS
NONE

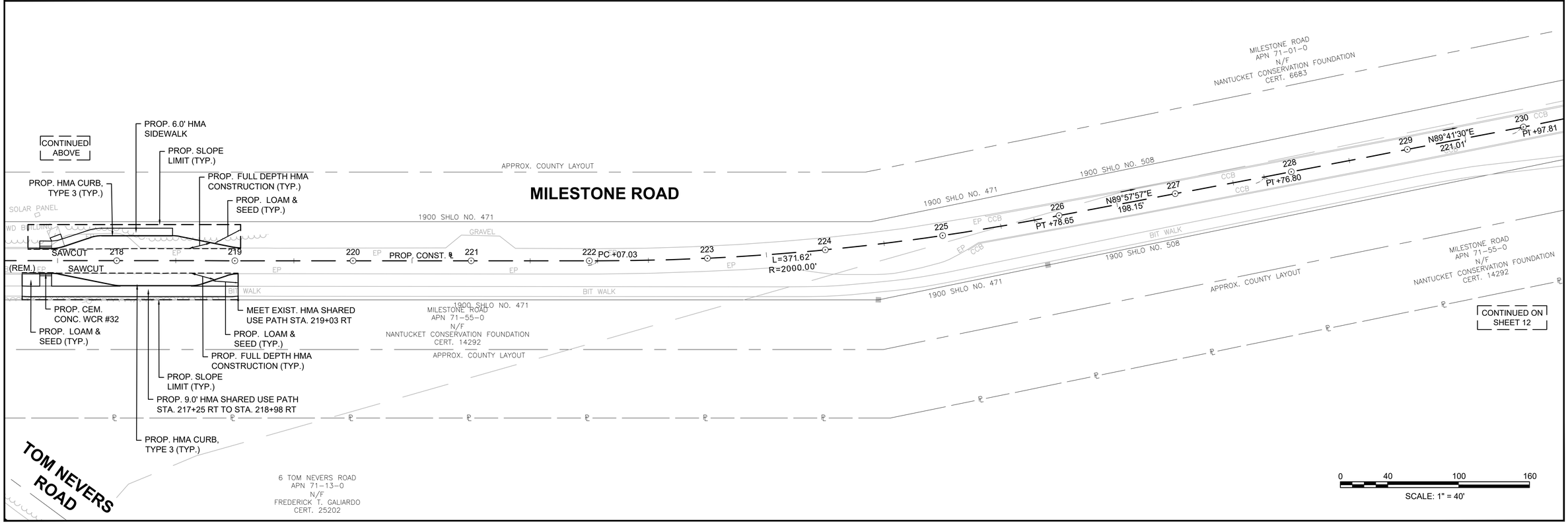
DRAINAGE DETAILS
SEE SHEET 35

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS





608833_HD (CO).DWG Plotted on 18-May-2018 8:04 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

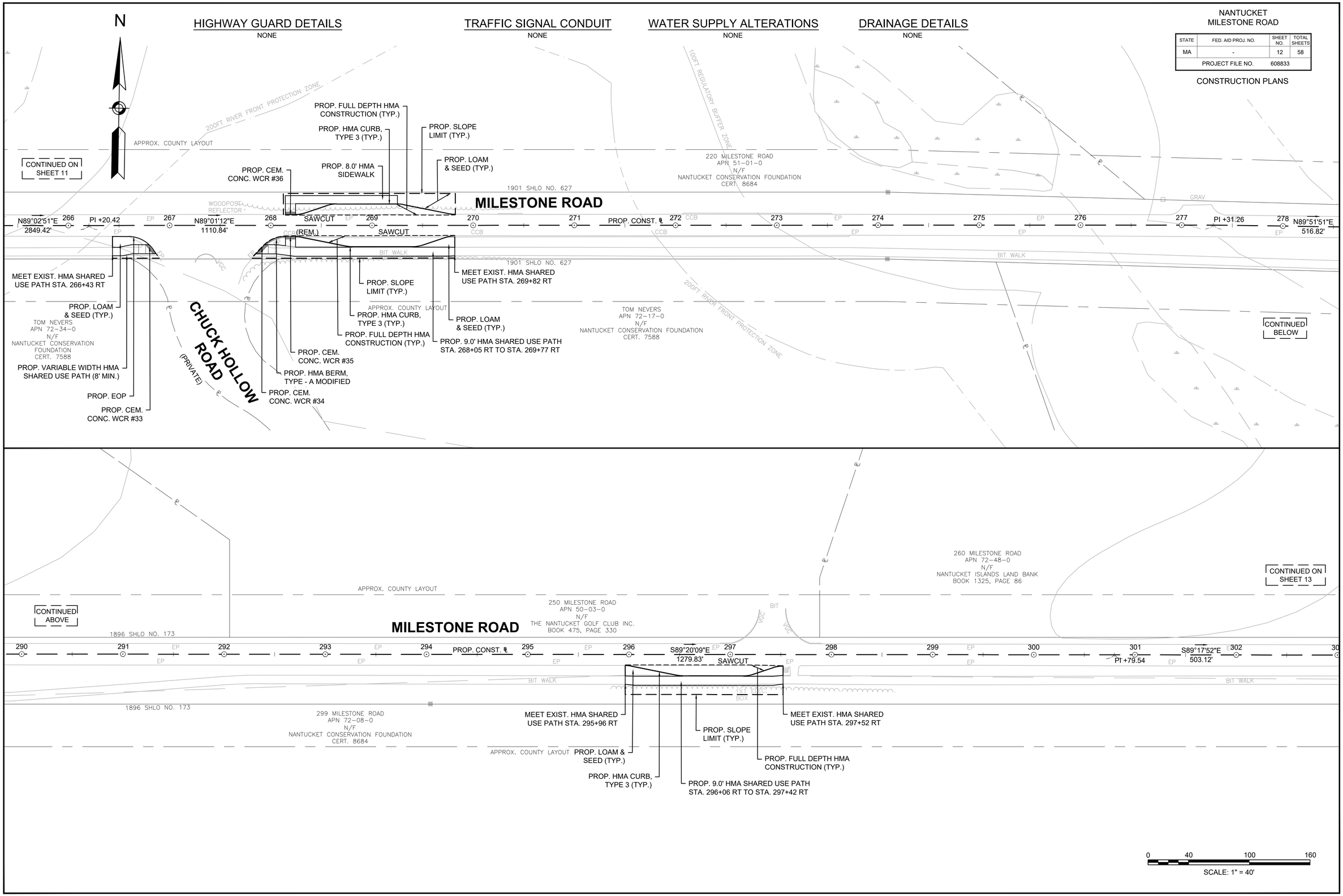
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
NONE

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	12	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS



608833_HD (CO).DWG Plotted on 18-May-2018 8:04 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	58
PROJECT FILE NO.	608833		

CONSTRUCTION PLANS

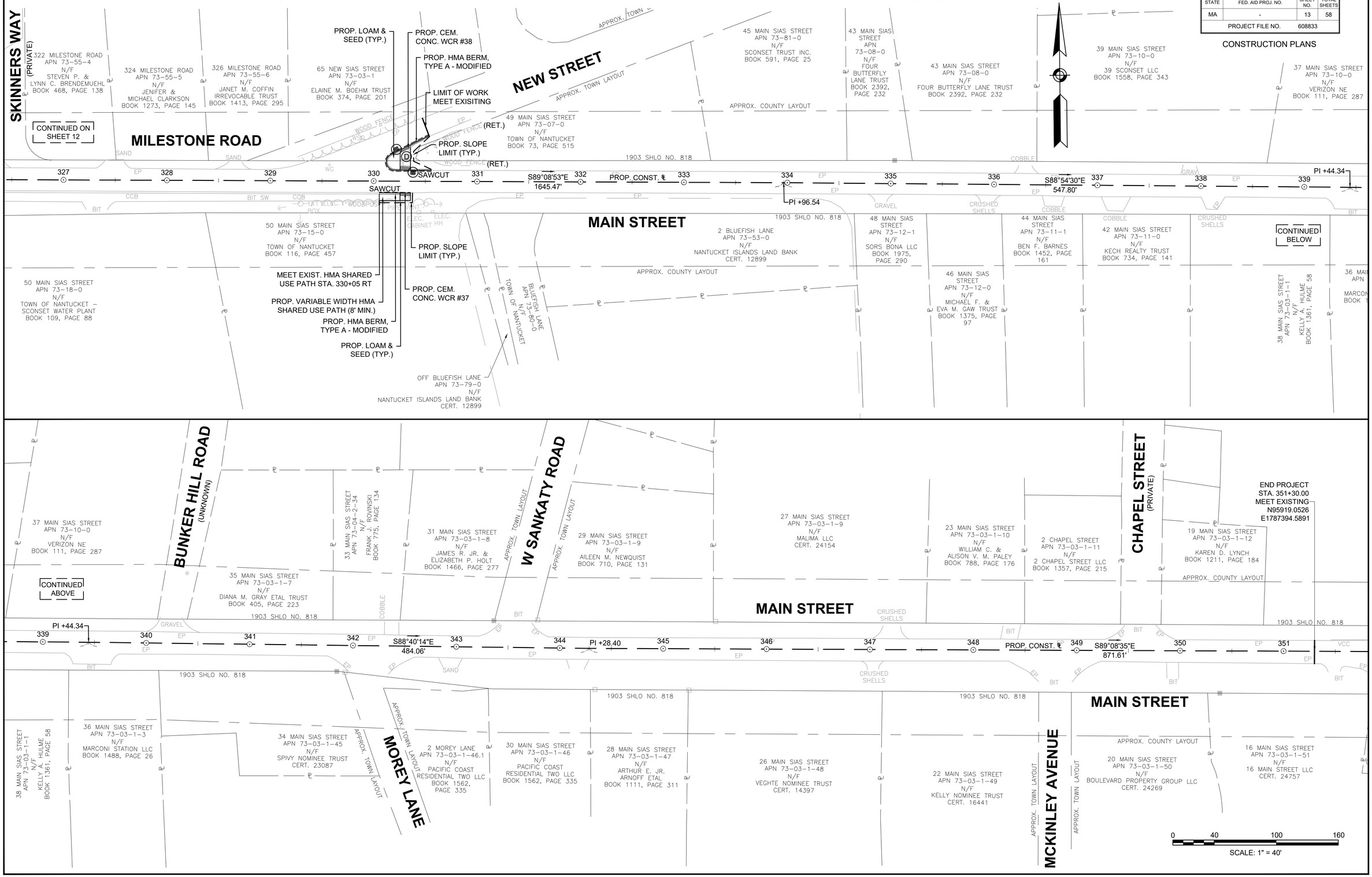
HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 35

N



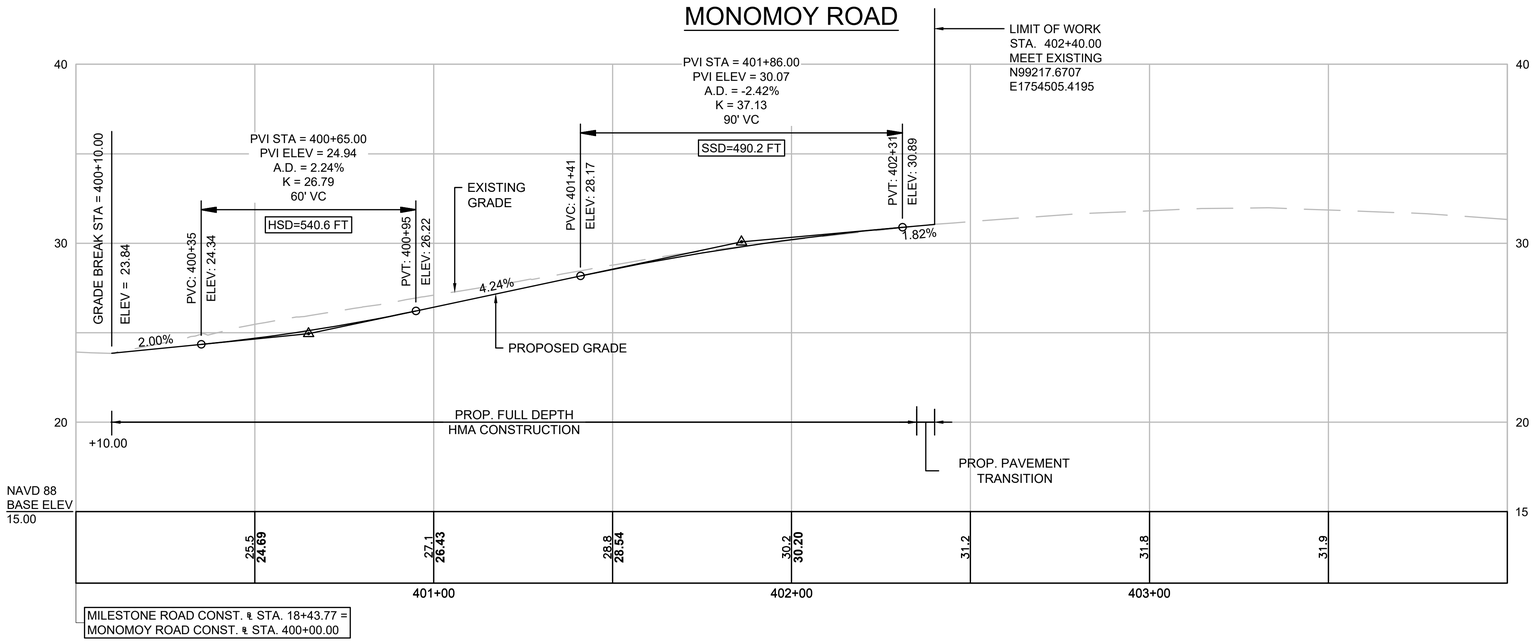
608833_HD (CO).DWG Plotted on 18-May-2018 8:04 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	58
PROJECT FILE NO.	608833		

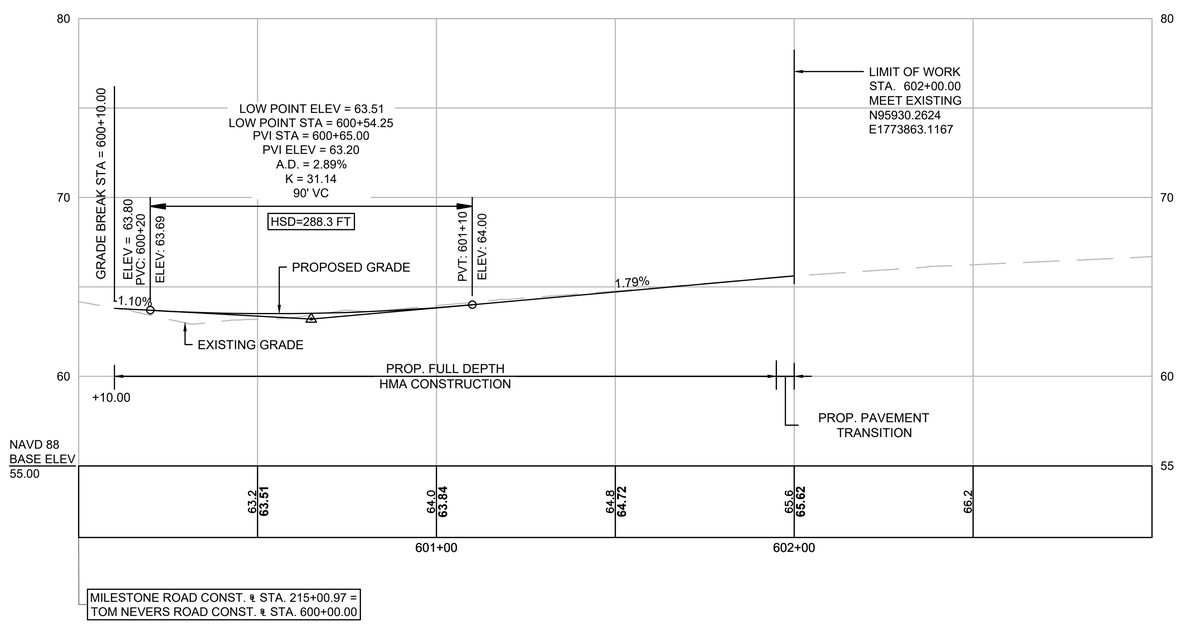
CONSTRUCTION PROFILES

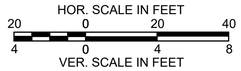
MONOMOY ROAD



FOR CONSTRUCTION: PLAN SEE SHEET NO. 6.

TOM NEVERS ROAD



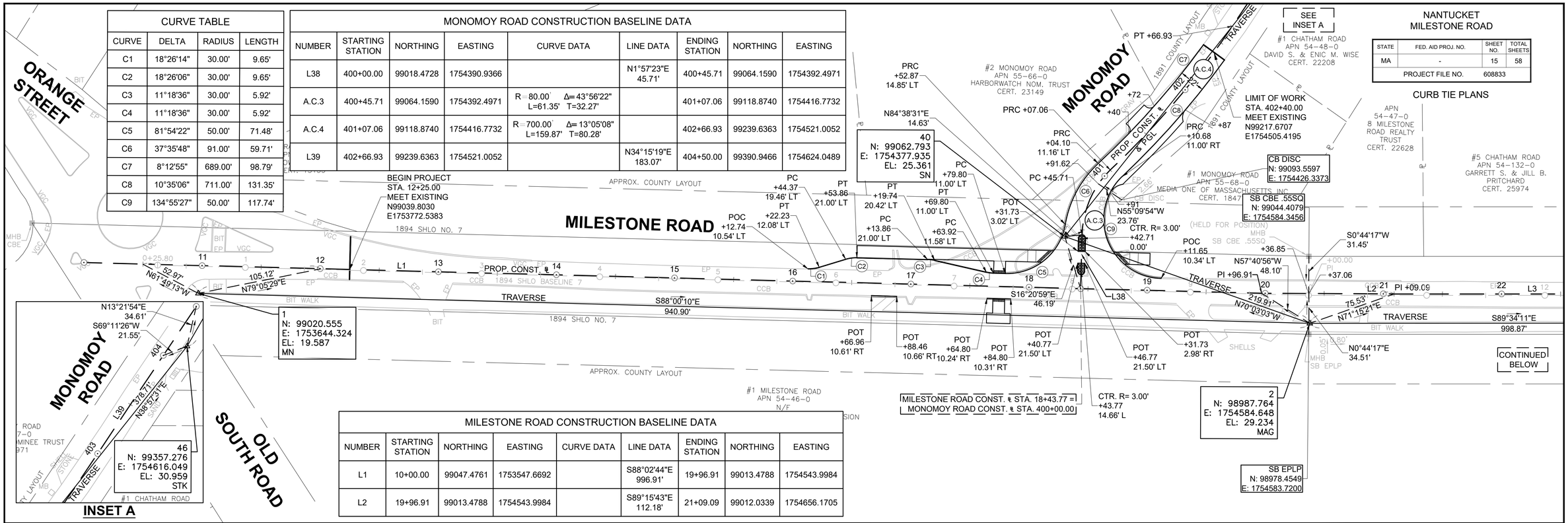


FOR CONSTRUCTION: PLAN SEE SHEET NO. 11.

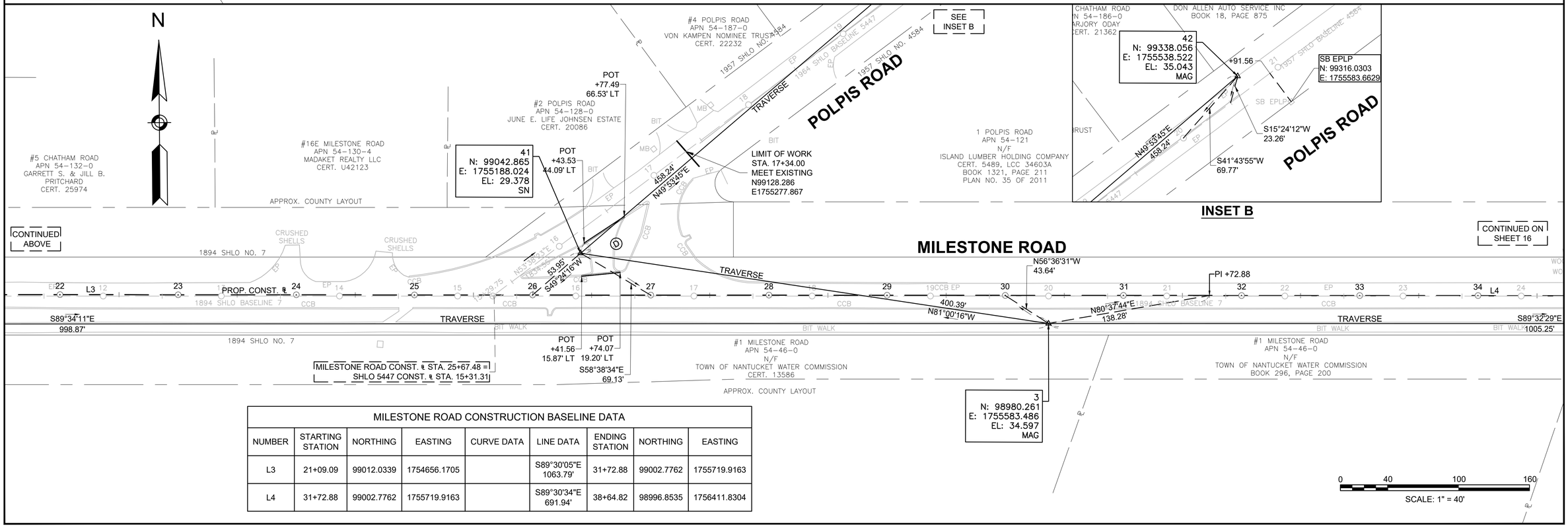
608833_HD (PR).DWG Plotted on 17-May-2016 3:49 PM

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	18°26'14"	30.00'	9.65'
C2	18°26'06"	30.00'	9.65'
C3	11°18'36"	30.00'	5.92'
C4	11°18'36"	30.00'	5.92'
C5	81°54'22"	50.00'	71.48'
C6	37°35'48"	91.00'	59.71'
C7	8°12'55"	689.00'	98.79'
C8	10°35'06"	711.00'	131.35'
C9	134°55'27"	50.00'	117.74'

MONOMOY ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L38	400+00.00	99018.4728	1754390.9366		N1°57'23"E 45.71'	400+45.71	99064.1590	1754392.4971
A.C.3	400+45.71	99064.1590	1754392.4971	R=80.00' Δ=43°56'22" L=61.35' T=32.27'		401+07.06	99118.8740	1754416.7732
A.C.4	401+07.06	99118.8740	1754416.7732	R=700.00' Δ=13°05'08" L=159.87' T=80.28'		402+66.93	99239.6363	1754521.0052
L39	402+66.93	99239.6363	1754521.0052		N34°15'19"E 183.07'	404+50.00	99390.9466	1754624.0489



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	99047.4761	1753547.6692		S88°02'44"E 996.91'	19+96.91	99013.4788	1754543.9984
L2	19+96.91	99013.4788	1754543.9984		S89°15'43"E 112.18'	21+09.09	99012.0339	1754656.1705



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	21+09.09	99012.0339	1754656.1705		S89°30'05"E 1063.79'	31+72.88	99002.7762	1755719.9163
L4	31+72.88	99002.7762	1755719.9163		S89°30'34"E 691.94'	38+64.82	98996.8535	1756411.8304

NANTUCKET MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	58
PROJECT FILE NO.	608833		

CURB TIE PLANS

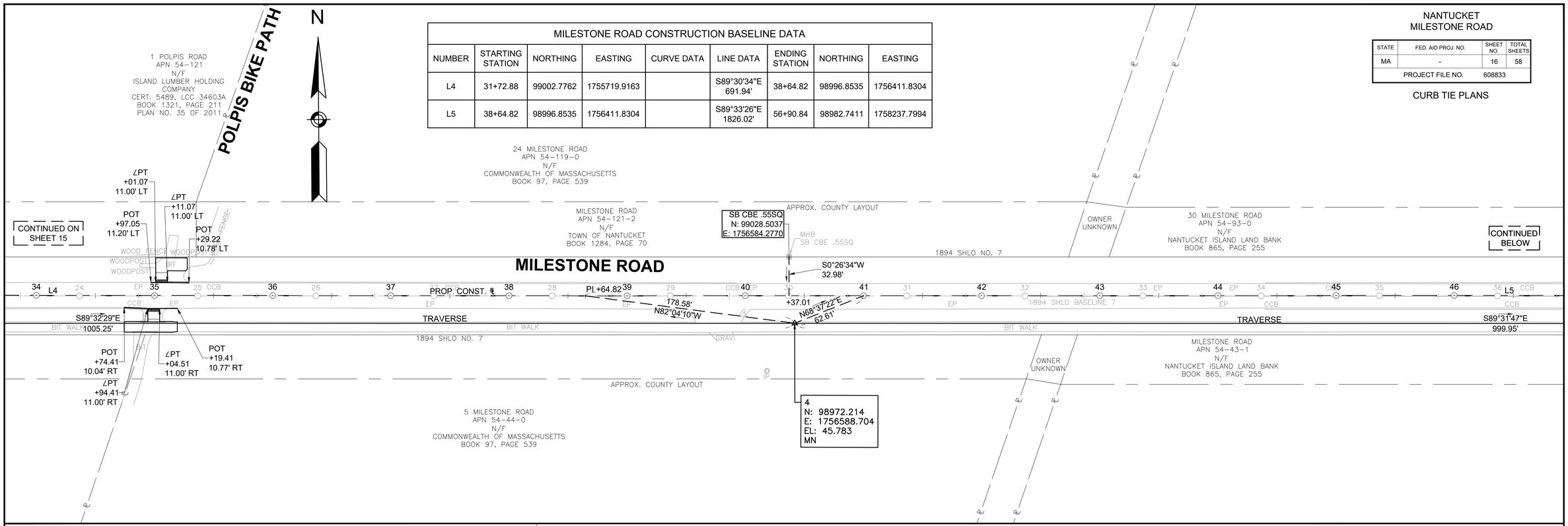
608833_HD (CT).DWG Plotted on 17-May-2016 3:53 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	58
PROJECT FILE NO.	608833		

CURB TIE PLANS

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	31+72.88	99002.7762	1755719.9163		S89°30'34"E 691.94'	38+64.82	98996.8535	1756411.8304
L5	38+64.82	98996.8535	1756411.8304		S89°33'26"E 1826.02'	56+90.84	98982.7411	1758237.7994



608833_HD (CT).DWG Plotted on 17-May-2016 3:53 PM

NANTUCKET
MILESTONE ROAD

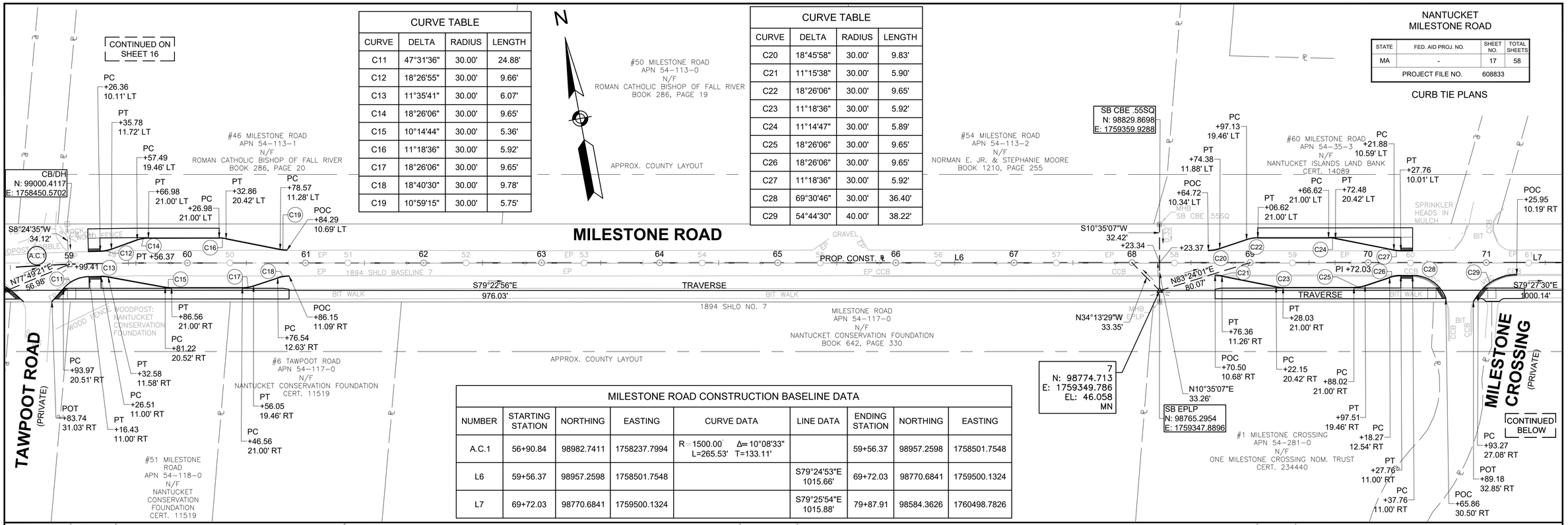
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	58
PROJECT FILE NO.	608833		

CURB TIE PLANS

608833_HD (CT).DWG Plotted on 17-May-2016 3:53 PM

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C11	47°31'36"	30.00'	24.88'
C12	18°26'55"	30.00'	9.66'
C13	11°35'41"	30.00'	6.07'
C14	18°26'06"	30.00'	9.65'
C15	10°14'44"	30.00'	5.36'
C16	11°18'36"	30.00'	5.92'
C17	18°26'06"	30.00'	9.65'
C18	18°40'30"	30.00'	9.78'
C19	10°59'15"	30.00'	5.75'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C20	18°45'58"	30.00'	9.83'
C21	11°15'38"	30.00'	5.90'
C22	18°26'06"	30.00'	9.65'
C23	11°18'36"	30.00'	5.92'
C24	11°14'47"	30.00'	5.89'
C25	18°26'06"	30.00'	9.65'
C26	18°26'06"	30.00'	9.65'
C27	11°18'36"	30.00'	5.92'
C28	69°30'46"	30.00'	36.40'
C29	54°44'30"	40.00'	38.22'



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
A.C.1	56+90.84	98982.7411	1758237.7994	R=1500.00' Δ=10°08'33" L=265.53' T=133.11'		59+56.37	98957.2598	1758501.7548
L6	59+56.37	98957.2598	1758501.7548		S79°24'53"E 1015.66'	69+72.03	98770.6841	1759500.1324
L7	69+72.03	98770.6841	1759500.1324		S79°25'54"E 1015.88'	79+87.91	98584.3626	1760498.7826

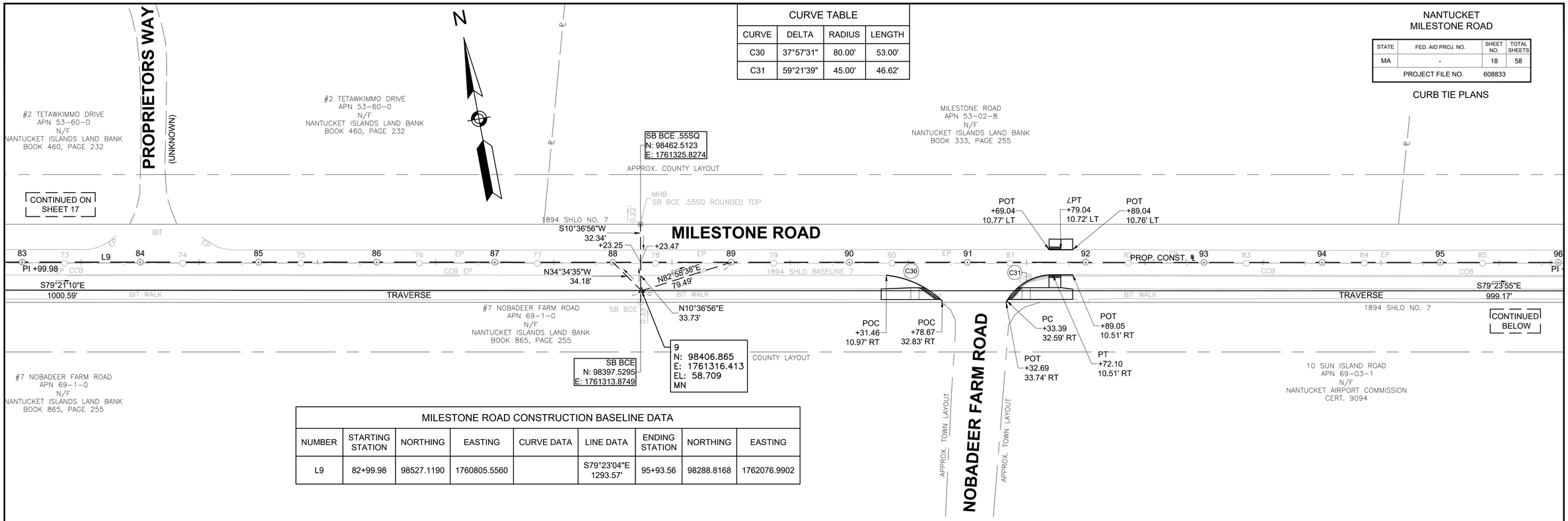
MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	79+87.91	98584.3626	1760498.7826		S79°25'49"E 312.07'	82+99.98	98527.1190	1760805.5560
L9	82+99.98	98527.1190	1760805.5560		S79°23'04"E 1293.57'	95+93.56	98288.8168	1762076.9902

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	58
PROJECT FILE NO.	608833		

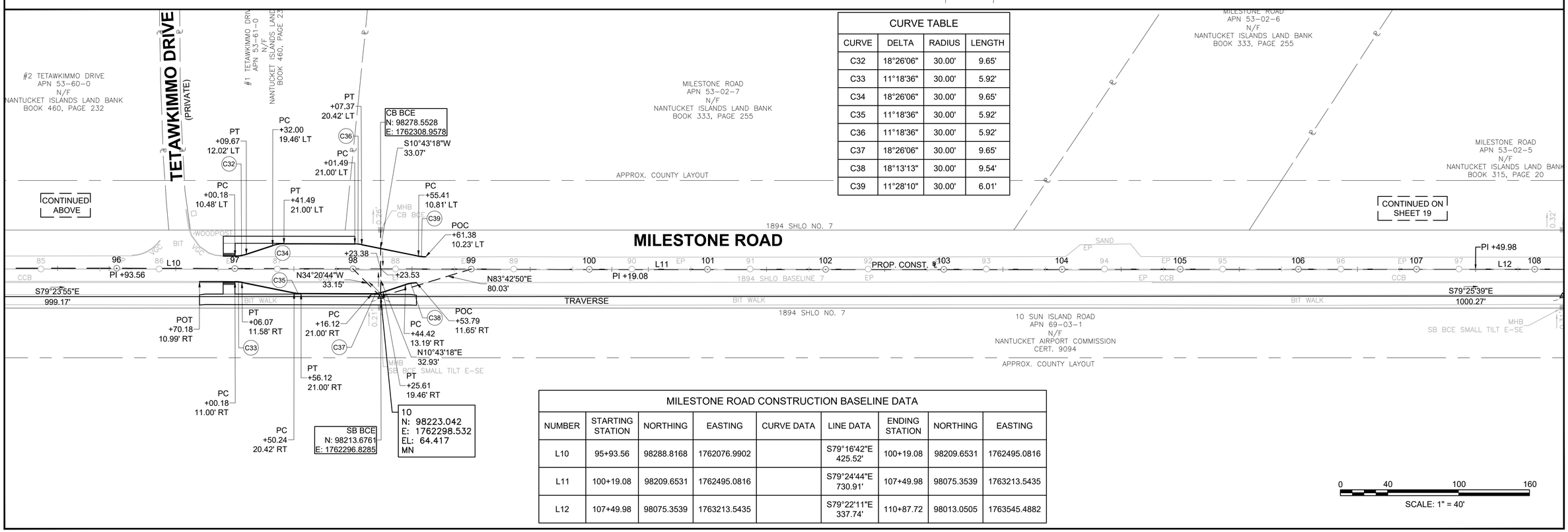
CURB TIE PLANS

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C30	37°57'31"	80.00'	53.00'
C31	59°21'39"	45.00'	46.62'



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L9	82+99.98	98527.1190	1760805.5560		S79°23'04"E 1293.57'	95+93.56	98288.8168	1762076.9902

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C32	18°26'06"	30.00'	9.65'
C33	11°18'36"	30.00'	5.92'
C34	18°26'06"	30.00'	9.65'
C35	11°18'36"	30.00'	5.92'
C36	11°18'36"	30.00'	5.92'
C37	18°26'06"	30.00'	9.65'
C38	18°13'13"	30.00'	9.54'
C39	11°28'10"	30.00'	6.01'



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	95+93.56	98288.8168	1762076.9902		S79°16'42"E 425.52'	100+19.08	98209.6531	1762495.0816
L11	100+19.08	98209.6531	1762495.0816		S79°24'44"E 730.91'	107+49.98	98075.3539	1763213.5435
L12	107+49.98	98075.3539	1763213.5435		S79°22'11"E 337.74'	110+87.72	98013.0505	1763545.4882

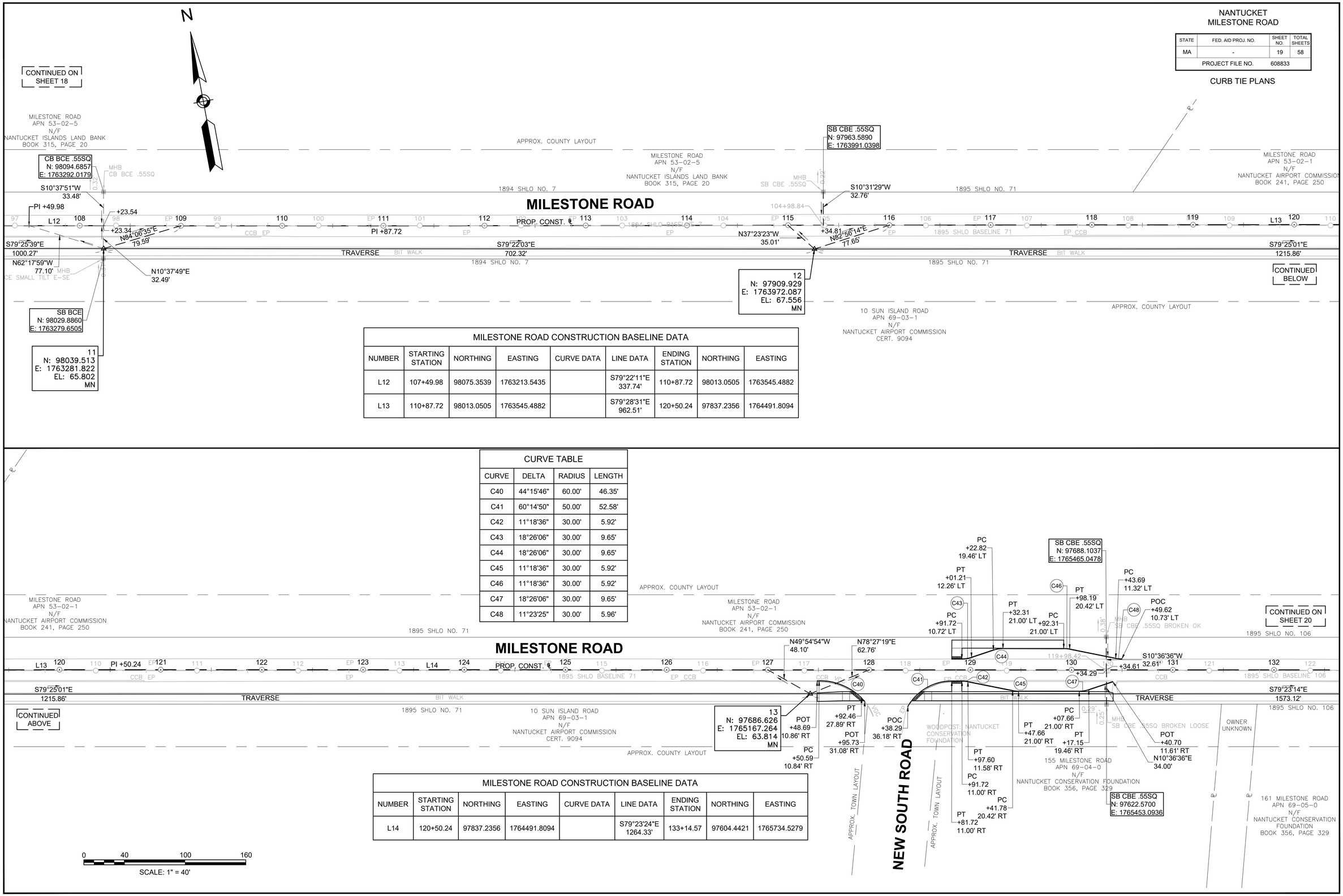
0 40 100 160
SCALE: 1" = 40'

608833_HD (CT).DWG Plotted on 17-May-2018 3:54 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	58
PROJECT FILE NO.	608833		

CURB TIE PLANS



MILESTONE ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L12	107+49.98	98075.3539	1763213.5435		S79°22'11"E 337.74'	110+87.72	98013.0505	1763545.4882
L13	110+87.72	98013.0505	1763545.4882		S79°28'31"E 962.51'	120+50.24	97837.2356	1764491.8094

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C40	44°15'46"	60.00'	46.35'
C41	60°14'50"	50.00'	52.58'
C42	11°18'36"	30.00'	5.92'
C43	18°26'06"	30.00'	9.65'
C44	18°26'06"	30.00'	9.65'
C45	11°18'36"	30.00'	5.92'
C46	11°18'36"	30.00'	5.92'
C47	18°26'06"	30.00'	9.65'
C48	11°23'25"	30.00'	5.96'

MILESTONE ROAD CONSTRUCTION BASELINE DATA

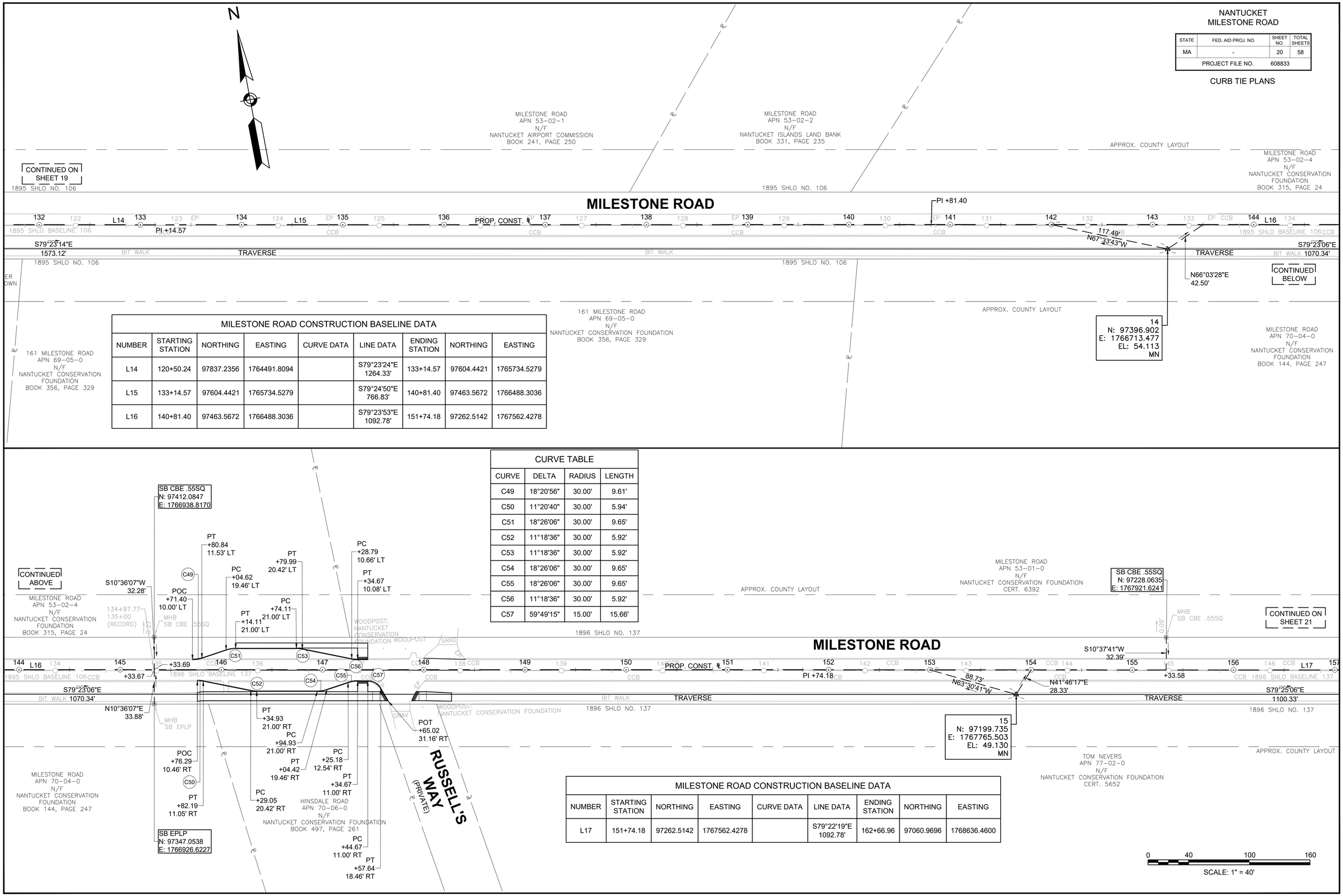
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L14	120+50.24	97837.2356	1764491.8094		S79°23'24"E 1264.33'	133+14.57	97604.4421	1765734.5279

608833_HD (CT).DWG Plotted on 17-May-2016 3:54 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	58
PROJECT FILE NO.	608833		

CURB TIE PLANS



MILESTONE ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L14	120+50.24	97837.2356	1764491.8094		S79°23'24"E 1264.33'	133+14.57	97604.4421	1765734.5279
L15	133+14.57	97604.4421	1765734.5279		S79°24'50"E 766.83'	140+81.40	97463.5672	1766488.3036
L16	140+81.40	97463.5672	1766488.3036		S79°23'53"E 1092.78'	151+74.18	97262.5142	1767562.4278

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C49	18°20'56"	30.00'	9.61'
C50	11°20'40"	30.00'	5.94'
C51	18°26'06"	30.00'	9.65'
C52	11°18'36"	30.00'	5.92'
C53	11°18'36"	30.00'	5.92'
C54	18°26'06"	30.00'	9.65'
C55	18°26'06"	30.00'	9.65'
C56	11°18'36"	30.00'	5.92'
C57	59°49'15"	15.00'	15.66'

MILESTONE ROAD CONSTRUCTION BASELINE DATA

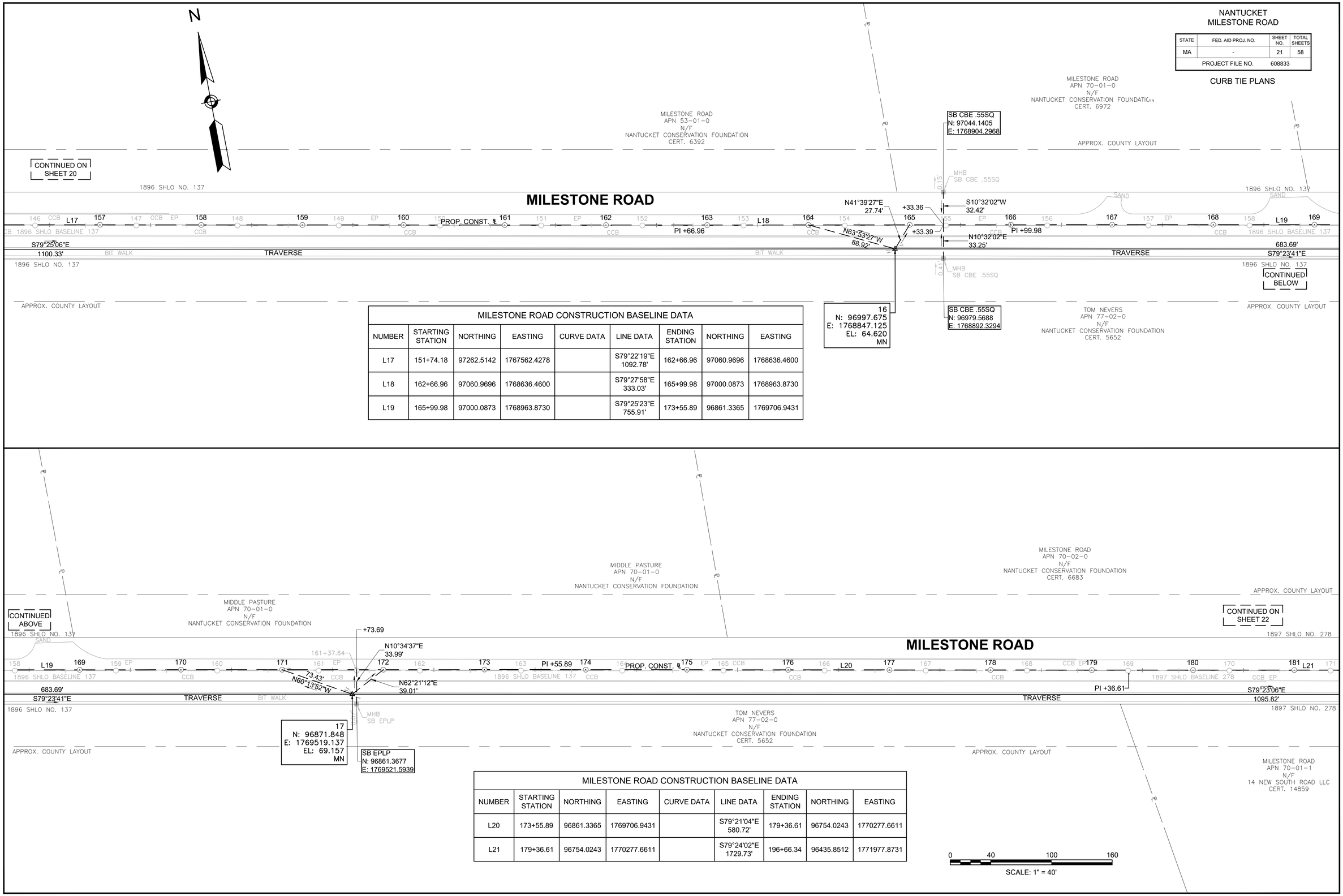
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L17	151+74.18	97262.5142	1767562.4278		S79°22'19"E 1092.78'	162+66.96	97060.9696	1768636.4600

608833_HD (CT).DWG Plotted on 17-May-2018 3:55 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	58
PROJECT FILE NO.	608833		

CURB TIE PLANS



MILESTONE ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L17	151+74.18	97262.5142	1767562.4278		S79°22'19"E 1092.78'	162+66.96	97060.9696	1768636.4600
L18	162+66.96	97060.9696	1768636.4600		S79°27'58"E 333.03'	165+99.98	97000.0873	1768963.8730
L19	165+99.98	97000.0873	1768963.8730		S79°25'23"E 755.91'	173+55.89	96861.3365	1769706.9431

MILESTONE ROAD CONSTRUCTION BASELINE DATA

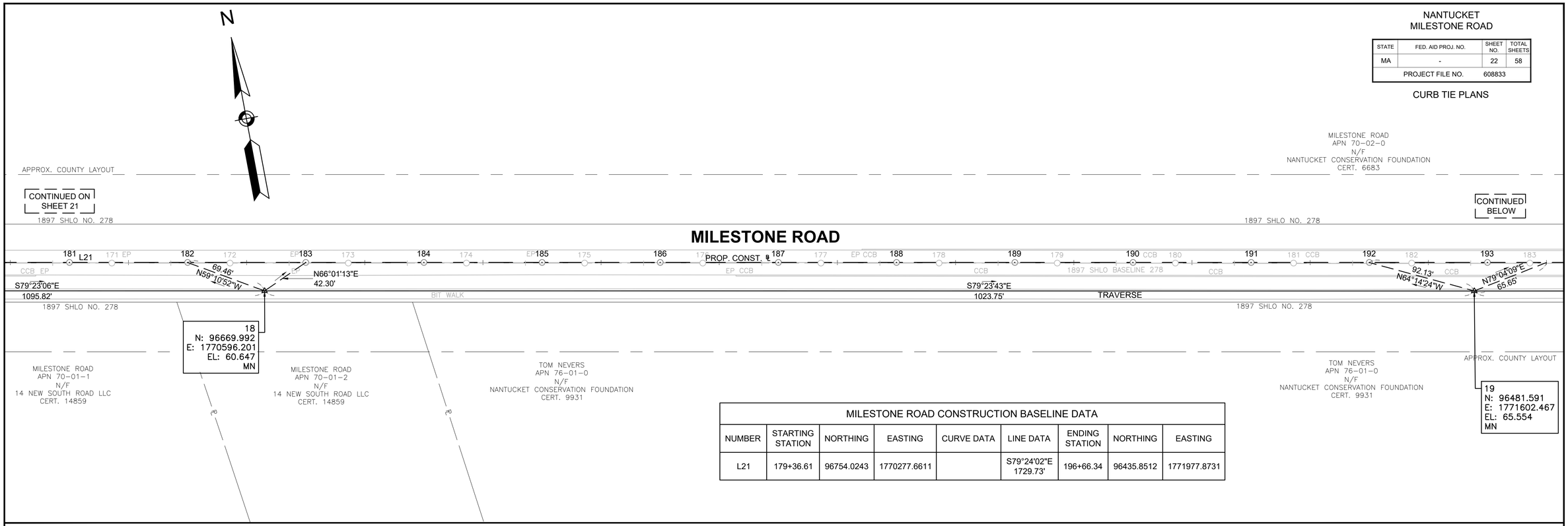
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L20	173+55.89	96861.3365	1769706.9431		S79°21'04"E 580.72'	179+36.61	96754.0243	1770277.6611
L21	179+36.61	96754.0243	1770277.6611		S79°24'02"E 1729.73'	196+66.34	96435.8512	1771977.8731

608833_HD (CT).DWG Plotted on 17-May-2016 3:55 PM

NANTUCKET
MILESTONE ROAD

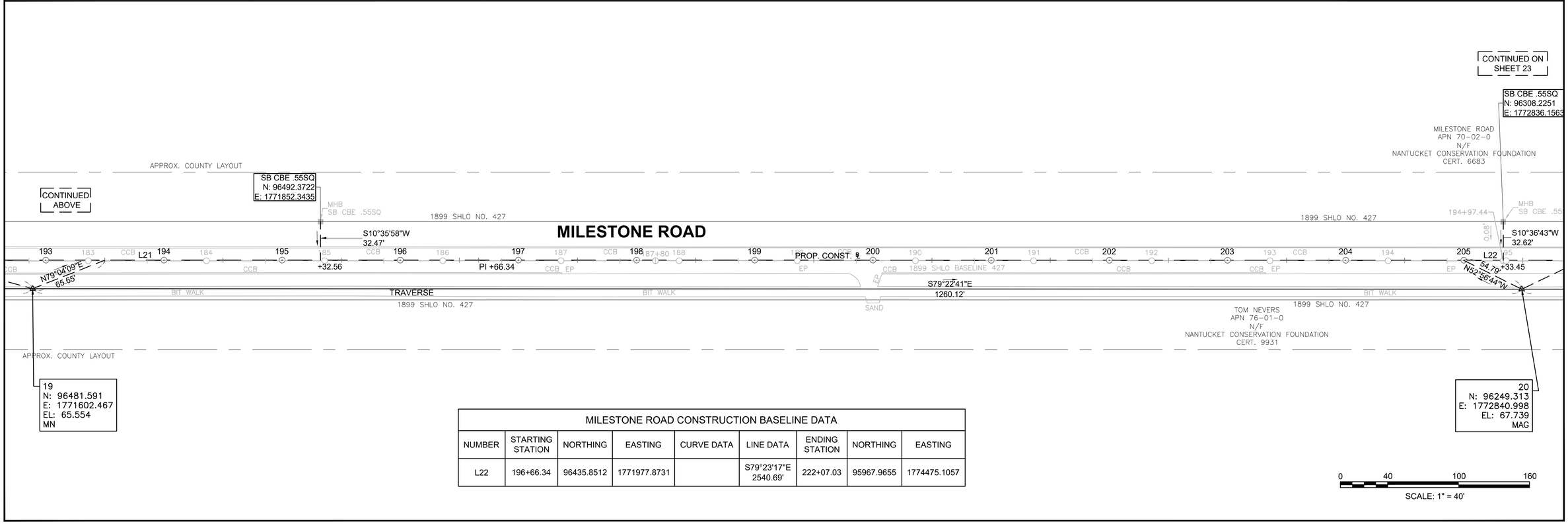
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	58
PROJECT FILE NO.	608833		

CURB TIE PLANS



MILESTONE ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L21	179+36.61	96754.0243	1770277.6611		S79°24'02"E 1729.73'	196+66.34	96435.8512	1771977.8731



MILESTONE ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L22	196+66.34	96435.8512	1771977.8731		S79°23'17"E 2540.69'	222+07.03	95967.9655	1774475.1057

0 40 100 160
SCALE: 1" = 40'

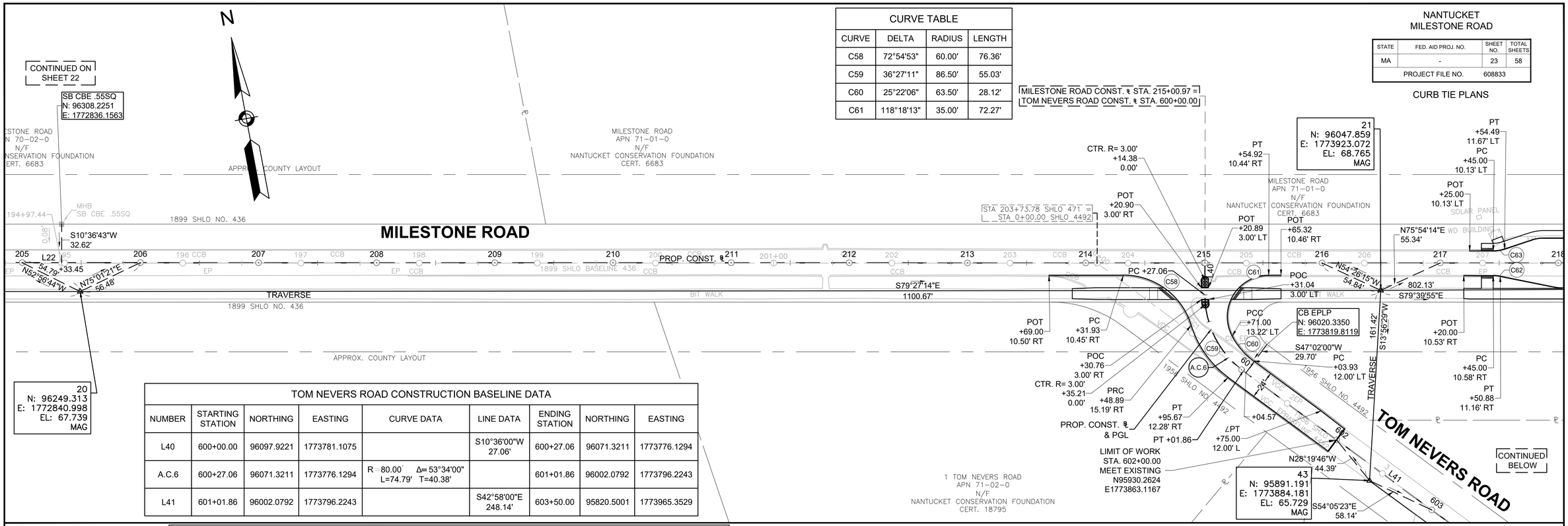
608833_HD (CT).DWG Plotted on 17-May-2016 3:56 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	58
PROJECT FILE NO.	608833		

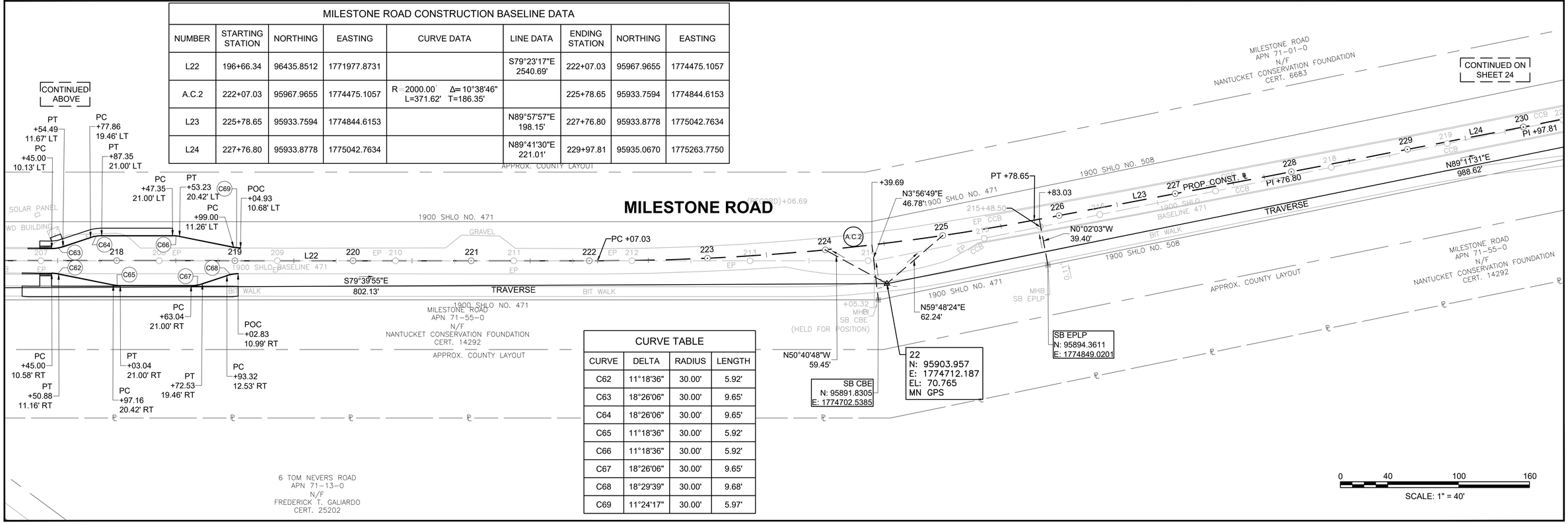
CURB TIE PLANS

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C58	72°54'53"	60.00'	76.36'
C59	36°27'11"	86.50'	55.03'
C60	25°22'06"	63.50'	28.12'
C61	118°18'13"	35.00'	72.27'



TOM NEVERS ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L40	600+00.00	96097.9221	1773781.1075		S10°36'00"W 27.06'	600+27.06	96071.3211	1773776.1294
A.C.6	600+27.06	96071.3211	1773776.1294	R=80.00' Δ=53°34'00" L=74.79' T=40.38'		601+01.86	96002.0792	1773796.2243
L41	601+01.86	96002.0792	1773796.2243		S42°58'00"E 248.14'	603+50.00	95820.5001	1773965.3529

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L22	196+66.34	96435.8512	1771977.8731		S79°23'17"E 2540.69'	222+07.03	95967.9655	1774475.1057
A.C.2	222+07.03	95967.9655	1774475.1057	R=2000.00' Δ=10°38'46" L=371.62' T=186.35'		225+78.65	95933.7594	1774844.6153
L23	225+78.65	95933.7594	1774844.6153		N89°57'57"E 198.15'	227+76.80	95933.8778	1775042.7634
L24	227+76.80	95933.8778	1775042.7634		N89°41'30"E 221.01'	229+97.81	95935.0670	1775263.7750



CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C62	11°18'36"	30.00'	5.92'
C63	18°26'06"	30.00'	9.65'
C64	18°26'06"	30.00'	9.65'
C65	11°18'36"	30.00'	5.92'
C66	11°18'36"	30.00'	5.92'
C67	18°26'06"	30.00'	9.65'
C68	18°29'39"	30.00'	9.68'
C69	11°24'17"	30.00'	5.97'

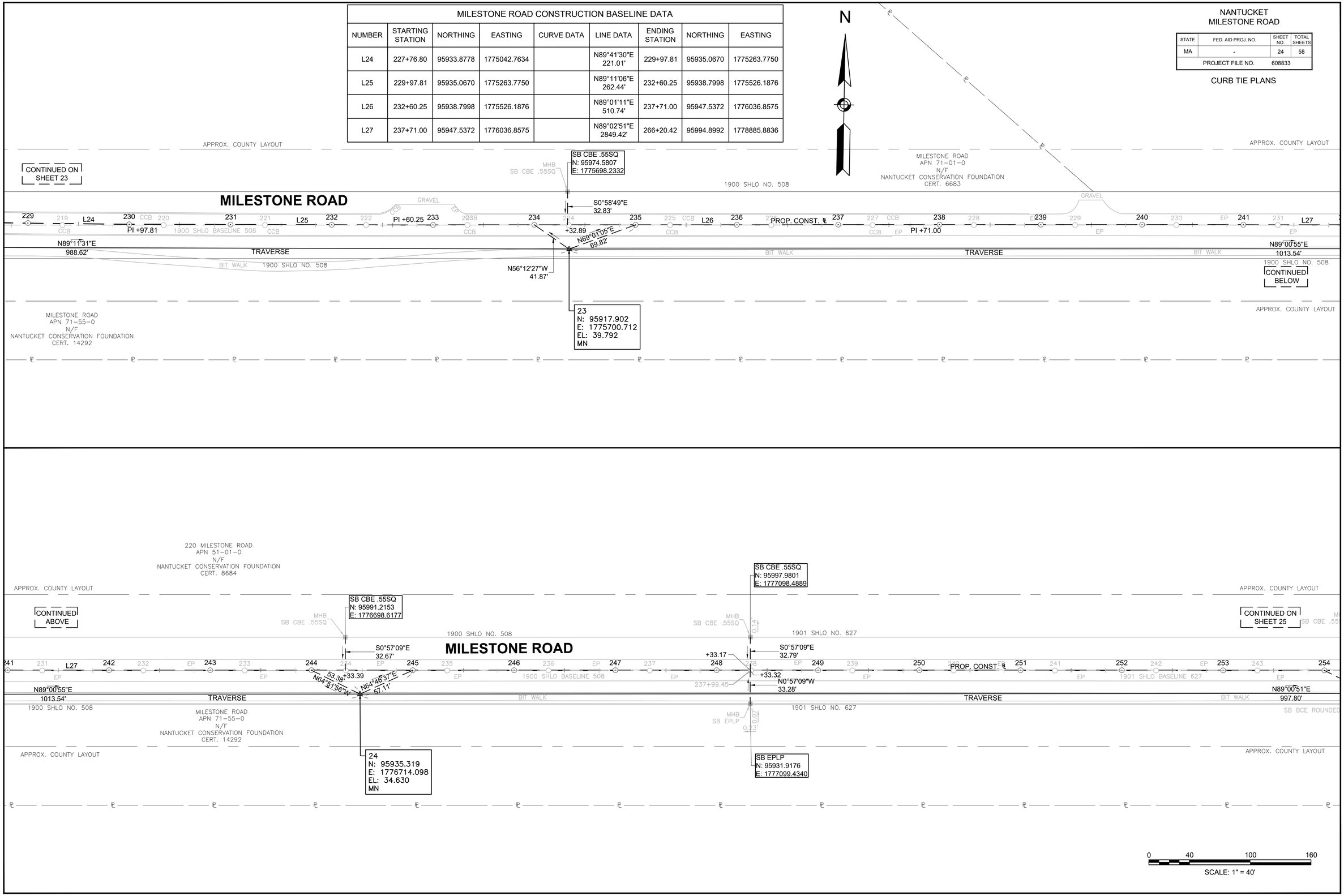
608833_HD (CT).DWG Plotted on 17-May-2016 3:56 PM

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L24	227+76.80	95933.8778	1775042.7634		N89°41'30"E 221.01'	229+97.81	95935.0670	1775263.7750
L25	229+97.81	95935.0670	1775263.7750		N89°11'06"E 262.44'	232+60.25	95938.7998	1775526.1876
L26	232+60.25	95938.7998	1775526.1876		N89°01'11"E 510.74'	237+71.00	95947.5372	1776036.8575
L27	237+71.00	95947.5372	1776036.8575		N89°02'51"E 2849.42'	266+20.42	95994.8992	1778885.8836

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	24	58
PROJECT FILE NO.	608833		

CURB TIE PLANS



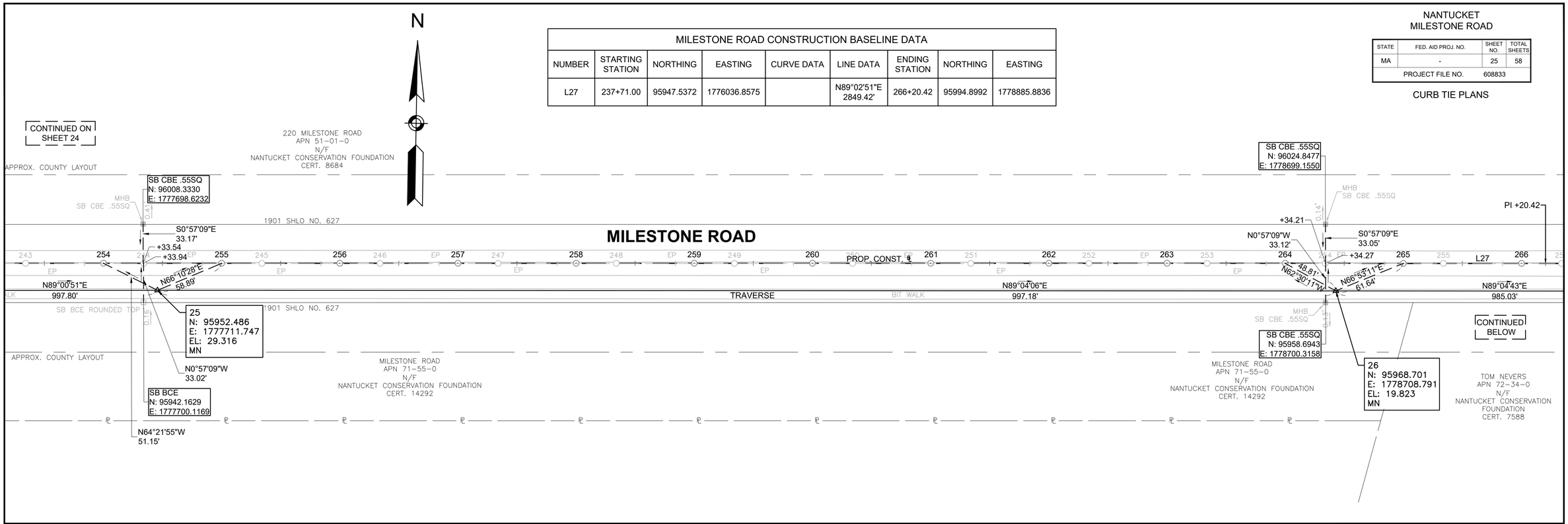
608833_HD (CT).DWG Plotted on 17-May-2016 3:56 PM

NANTUCKET
MILESTONE ROAD

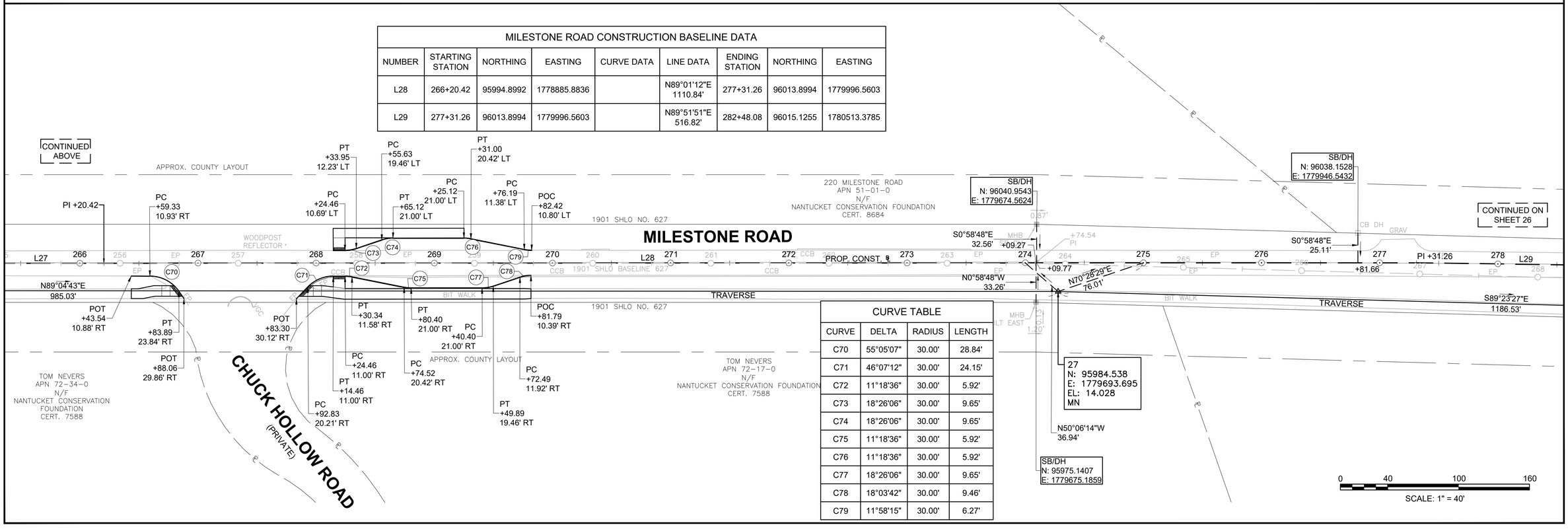
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	58
PROJECT FILE NO.	608833		

CURB TIE PLANS

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L27	237+71.00	95947.5372	1776036.8575		N89°02'51"E 2849.42'	266+20.42	95994.8992	1778885.8836



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L28	266+20.42	95994.8992	1778885.8836		N89°01'12"E 1110.84'	277+31.26	96013.8994	1779996.5603
L29	277+31.26	96013.8994	1779996.5603		N89°51'51"E 516.82'	282+48.08	96015.1255	1780513.3785



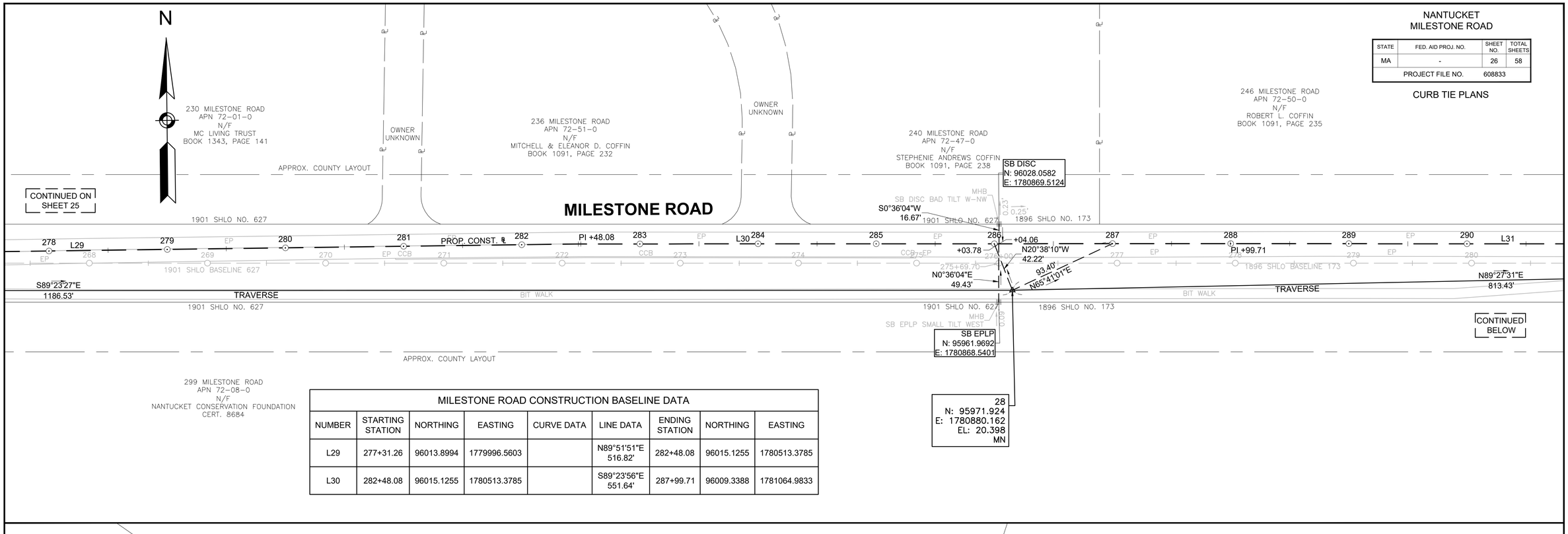
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C70	55°05'07"	30.00'	28.84'
C71	46°07'12"	30.00'	24.15'
C72	11°18'36"	30.00'	5.92'
C73	18°26'06"	30.00'	9.65'
C74	18°26'06"	30.00'	9.65'
C75	11°18'36"	30.00'	5.92'
C76	11°18'36"	30.00'	5.92'
C77	18°26'06"	30.00'	9.65'
C78	18°03'42"	30.00'	9.46'
C79	11°58'15"	30.00'	6.27'

608833_HD (CT).DWG Plotted on 17-May-2018 3:57 PM

NANTUCKET
MILESTONE ROAD

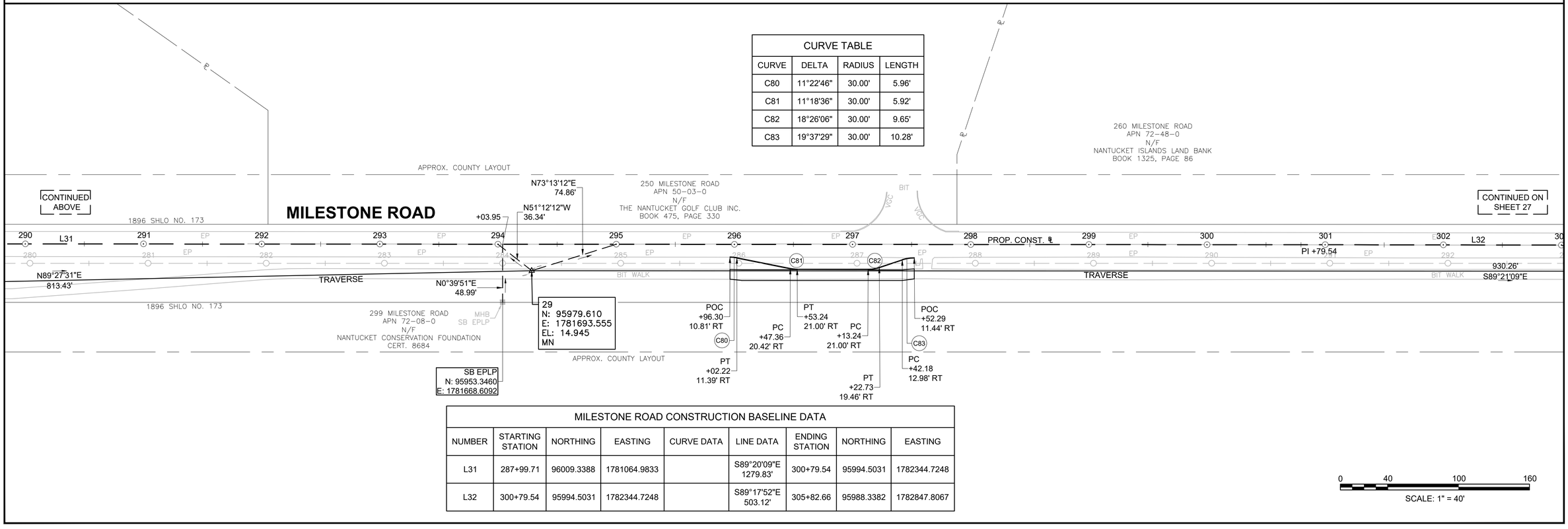
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	58
PROJECT FILE NO.	608833		

CURB TIE PLANS



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L29	277+31.26	96013.8994	1779996.5603		N89°51'51"E 516.82'	282+48.08	96015.1255	1780513.3785
L30	282+48.08	96015.1255	1780513.3785		S89°23'56"E 551.64'	287+99.71	96009.3388	1781064.9833

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C80	11°22'46"	30.00'	5.96'
C81	11°18'36"	30.00'	5.92'
C82	18°26'06"	30.00'	9.65'
C83	19°37'29"	30.00'	10.28'



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L31	287+99.71	96009.3388	1781064.9833		S89°20'09"E 1279.83'	300+79.54	95994.5031	1782344.7248
L32	300+79.54	95994.5031	1782344.7248		S89°17'52"E 503.12'	305+82.66	95988.3382	1782847.8067

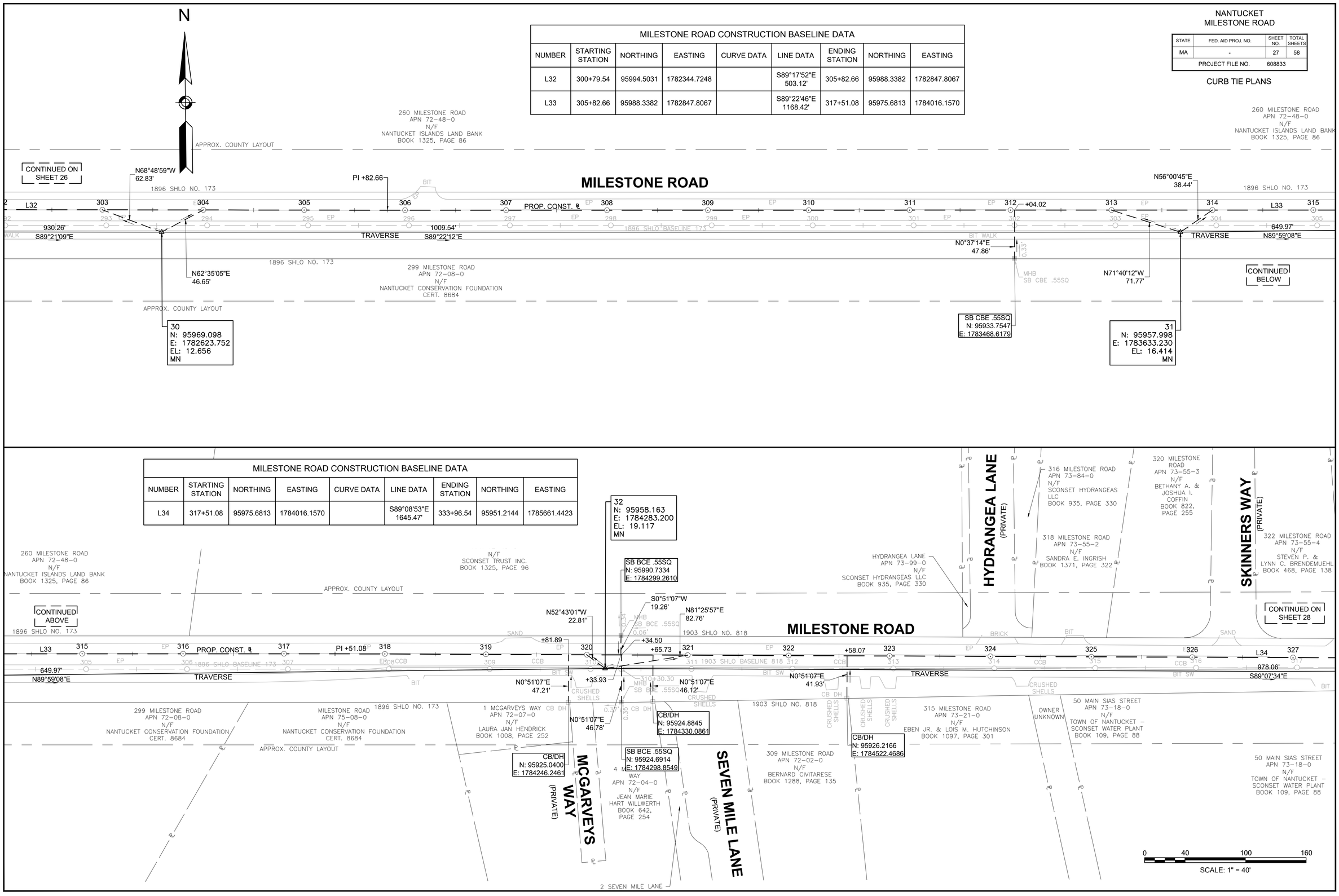
608833_HD (CT).DWG Plotted on 17-May-2018 3:57 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	58
PROJECT FILE NO.	608833		

CURB TIE PLANS

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L32	300+79.54	95994.5031	1782344.7248		S89°17'52"E 503.12'	305+82.66	95988.3382	1782847.8067
L33	305+82.66	95988.3382	1782847.8067		S89°22'46"E 1168.42'	317+51.08	95975.6813	1784016.1570



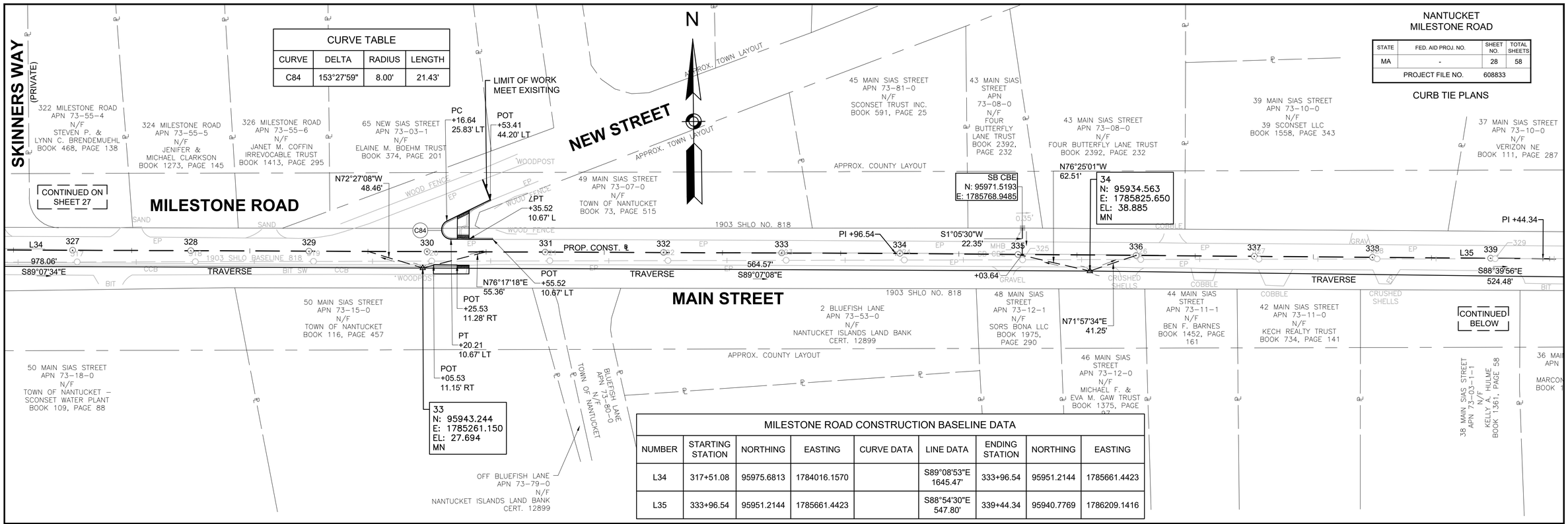
608833_HD (CT).DWG Plotted on 17-May-2016 3:58 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	58
PROJECT FILE NO.	608833		

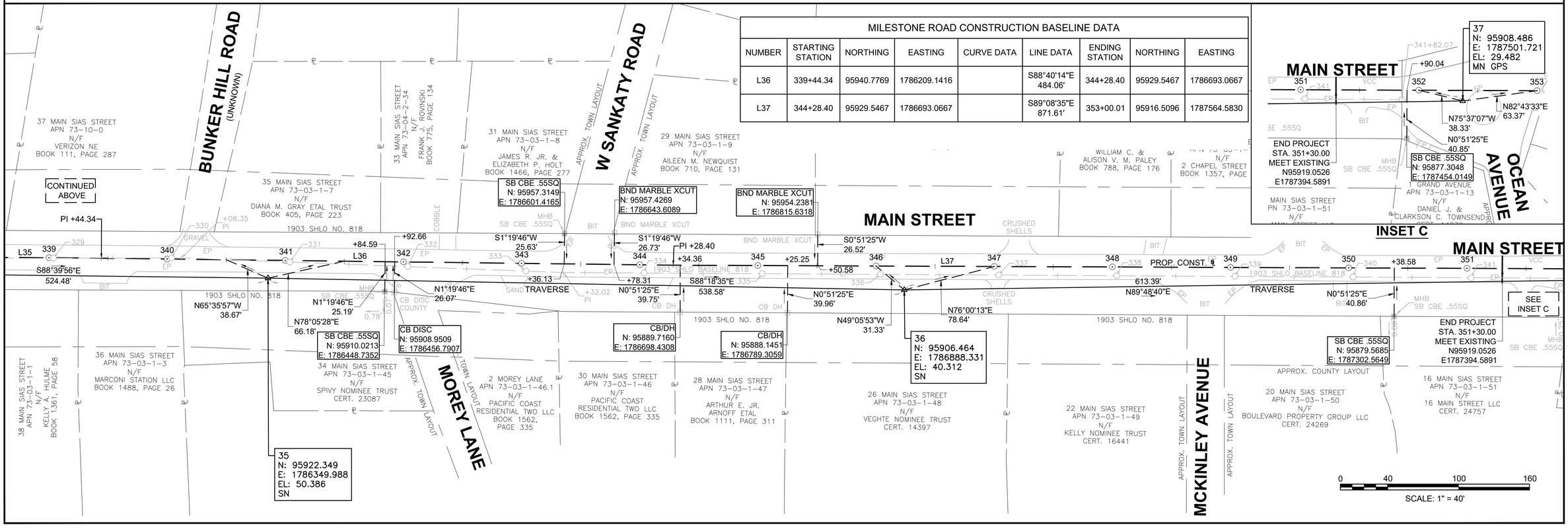
CURB TIE PLANS

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C84	153°27'59"	8.00'	21.43'



MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L34	317+51.08	95975.6813	1784016.1570		S89°08'53"E 1645.47'	333+96.54	95951.2144	1785661.4423
L35	333+96.54	95951.2144	1785661.4423		S88°54'30"E 547.80'	339+44.34	95940.7769	1786209.1416

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L36	339+44.34	95940.7769	1786209.1416		S88°40'14"E 484.06'	344+28.40	95929.5467	1786693.0667
L37	344+28.40	95929.5467	1786693.0667		S89°08'35"E 871.61'	353+00.01	95916.5096	1787564.5830

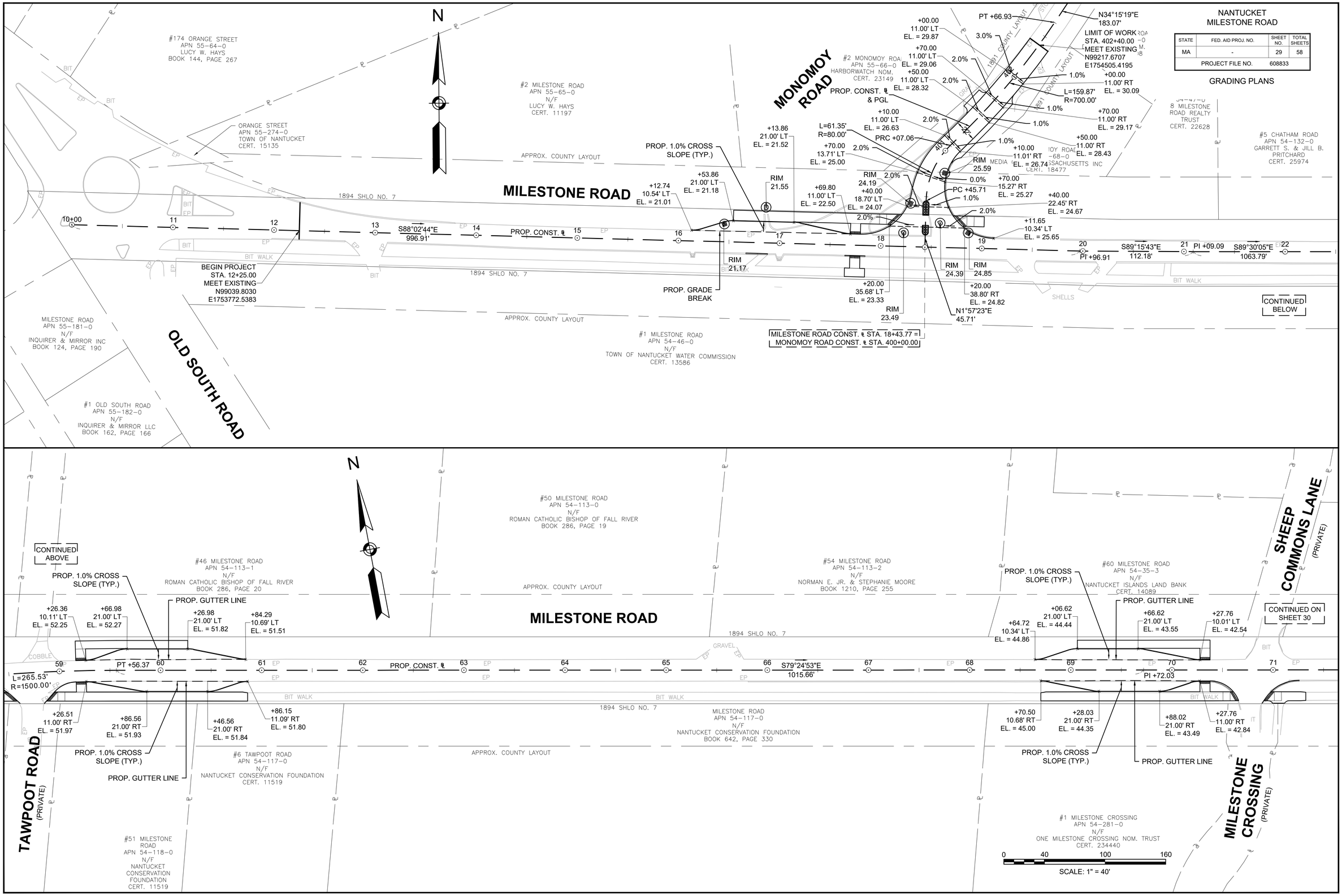


608833_HD (CT).DWG Plotted on 17-May-2016 3:58 PM

NANTUCKET MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	58
PROJECT FILE NO.	608833		

GRADING PLANS

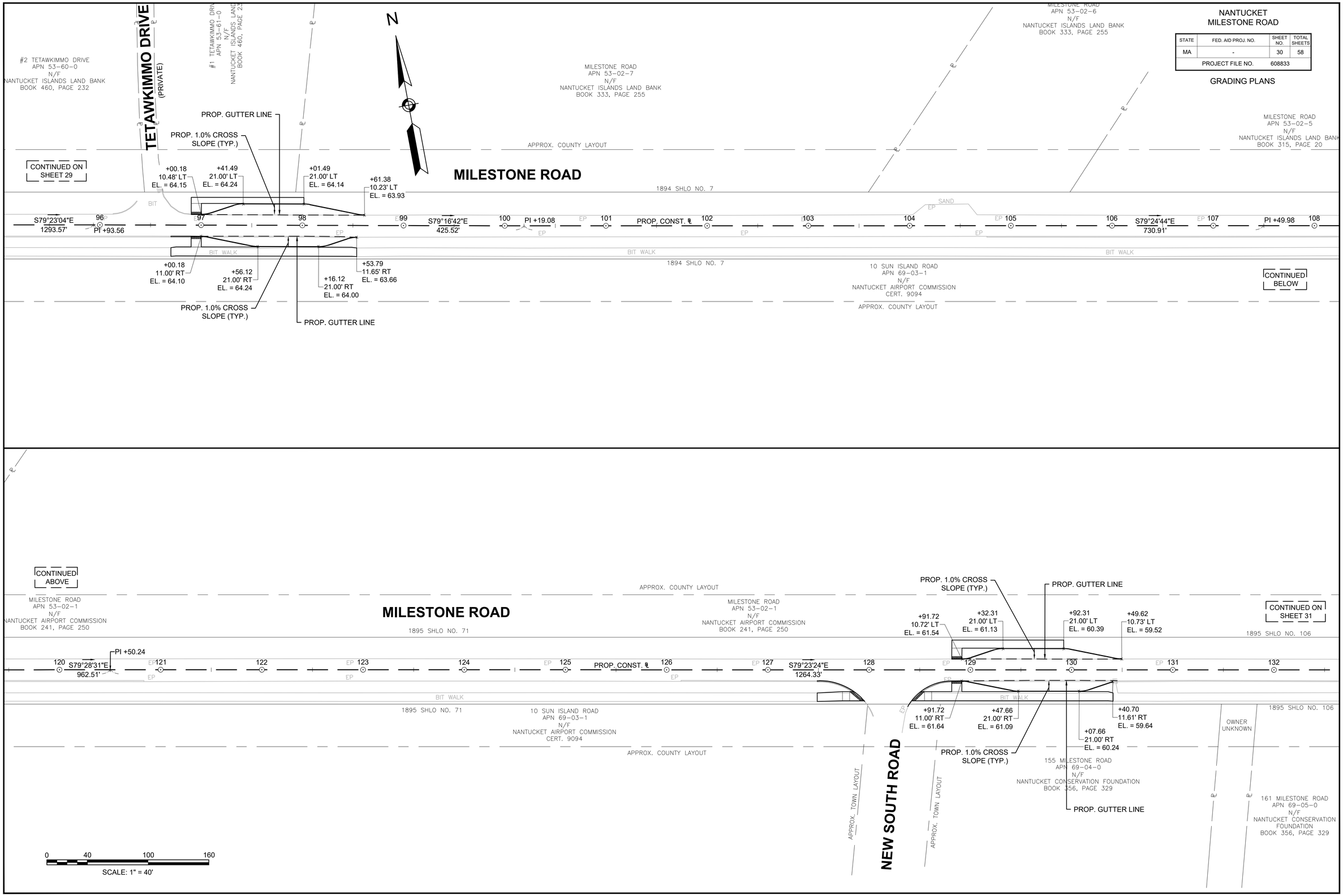


608833_HD (GR).DWG Plotted on 18-May-2018 7:51 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	58
PROJECT FILE NO.	608833		

GRADING PLANS



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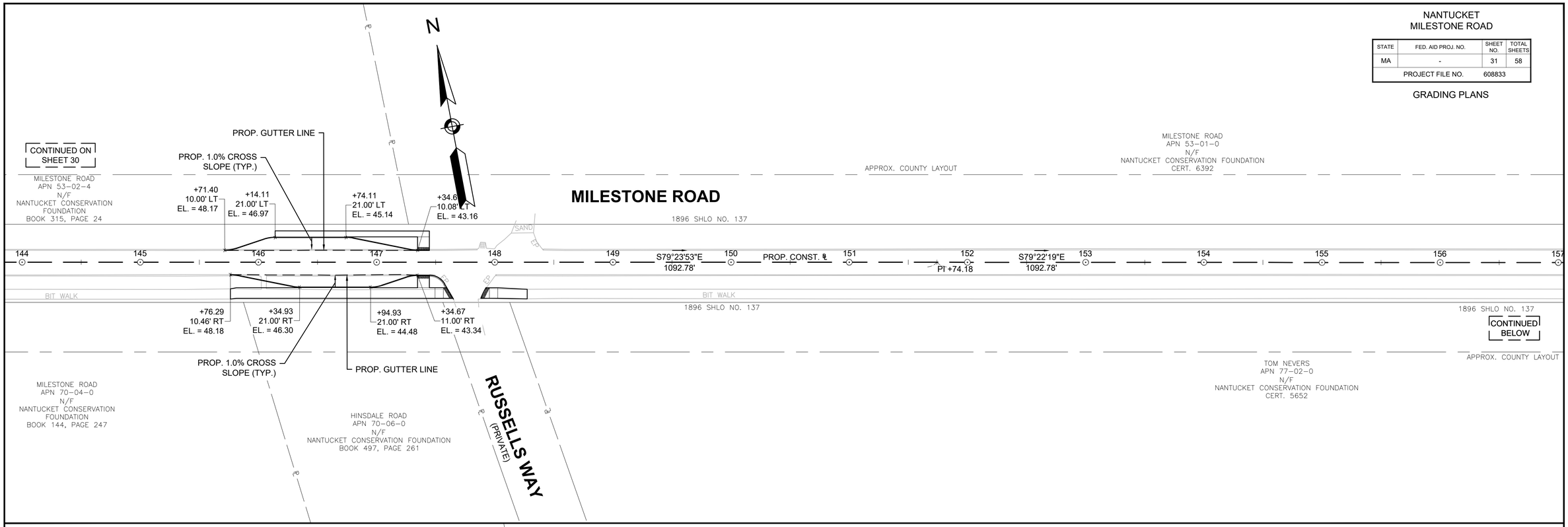
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	31	58
PROJECT FILE NO.	608833		

GRADING PLANS



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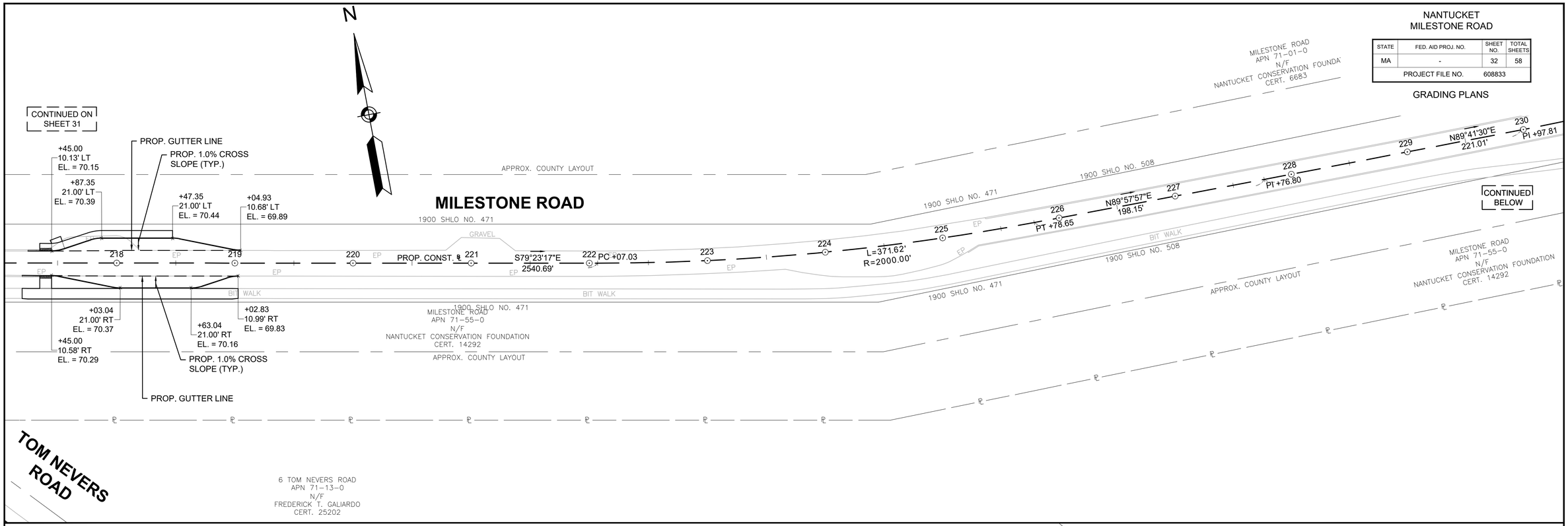
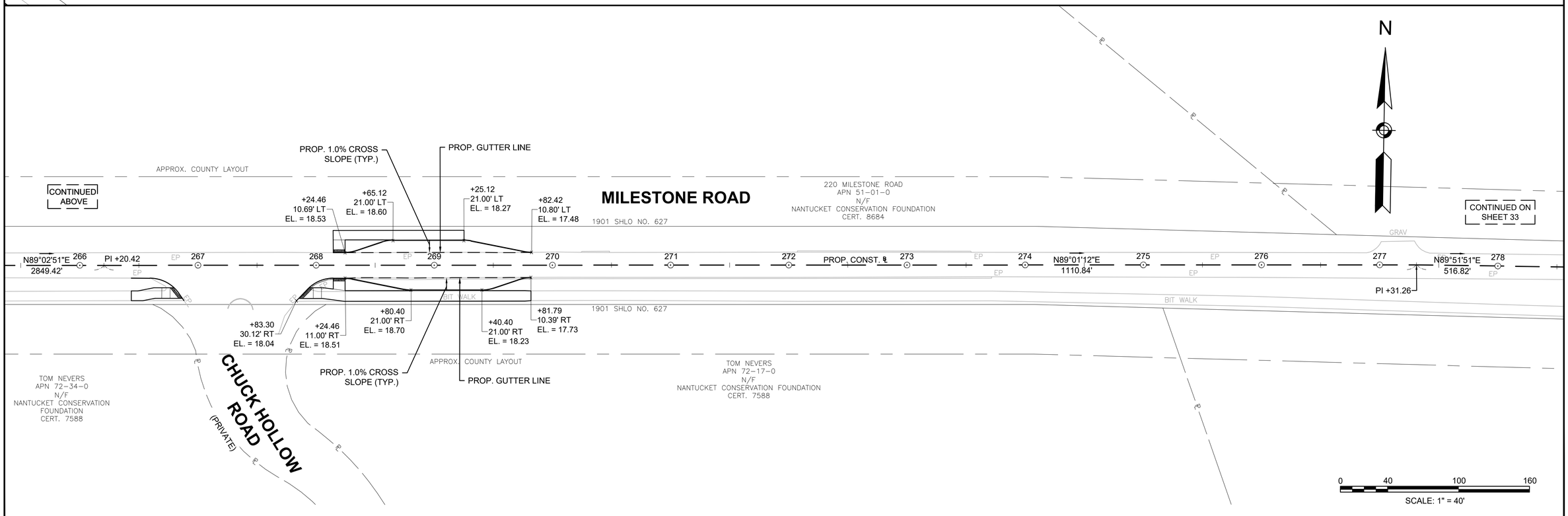
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	58
PROJECT FILE NO.	608833		

GRADING PLANS



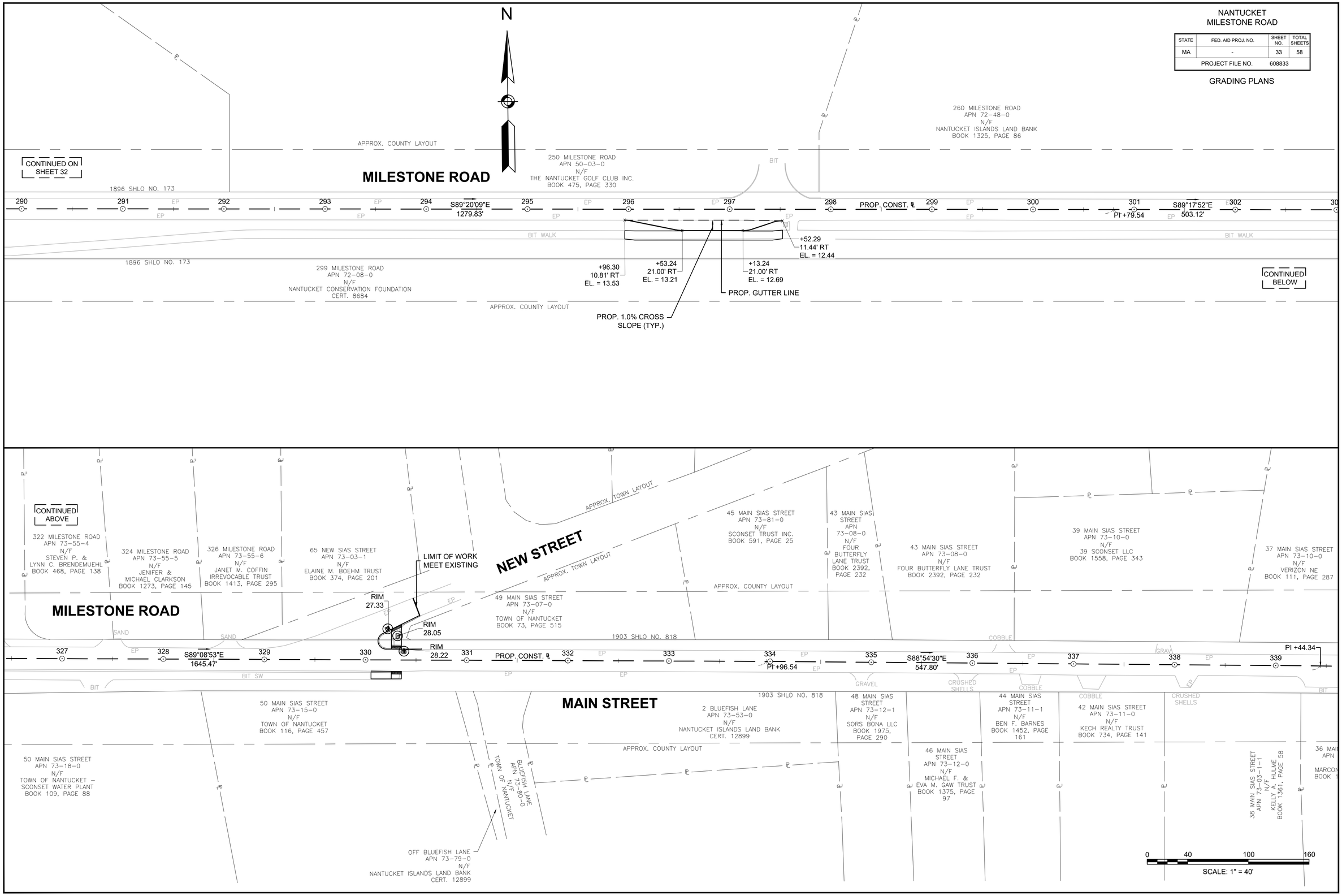


608833_HD (GR).DWG Plotted on 17-May-2016 4:03 PM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	58
PROJECT FILE NO.	608833		

GRADING PLANS



608833_HD (GR).DWG Plotted on 17-May-2018 4:03 PM

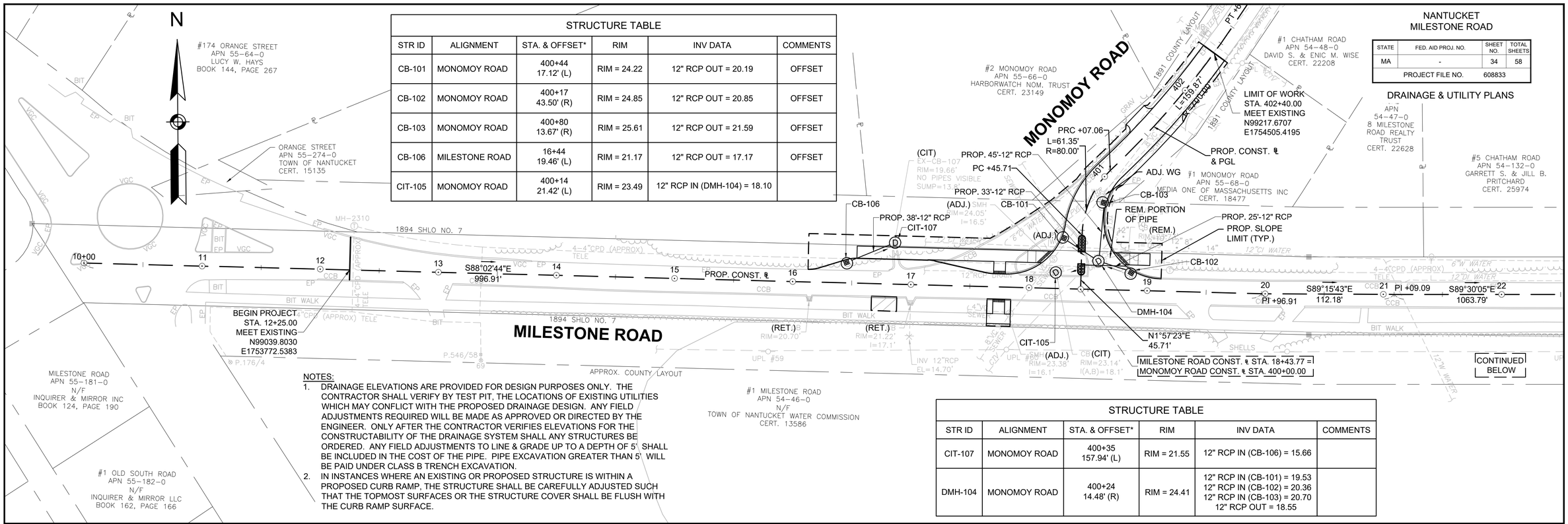
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	58
PROJECT FILE NO.	608833		

DRAINAGE & UTILITY PLANS

608833_HD (DU).DWG Plotted on 18-May-2018 8:03 AM

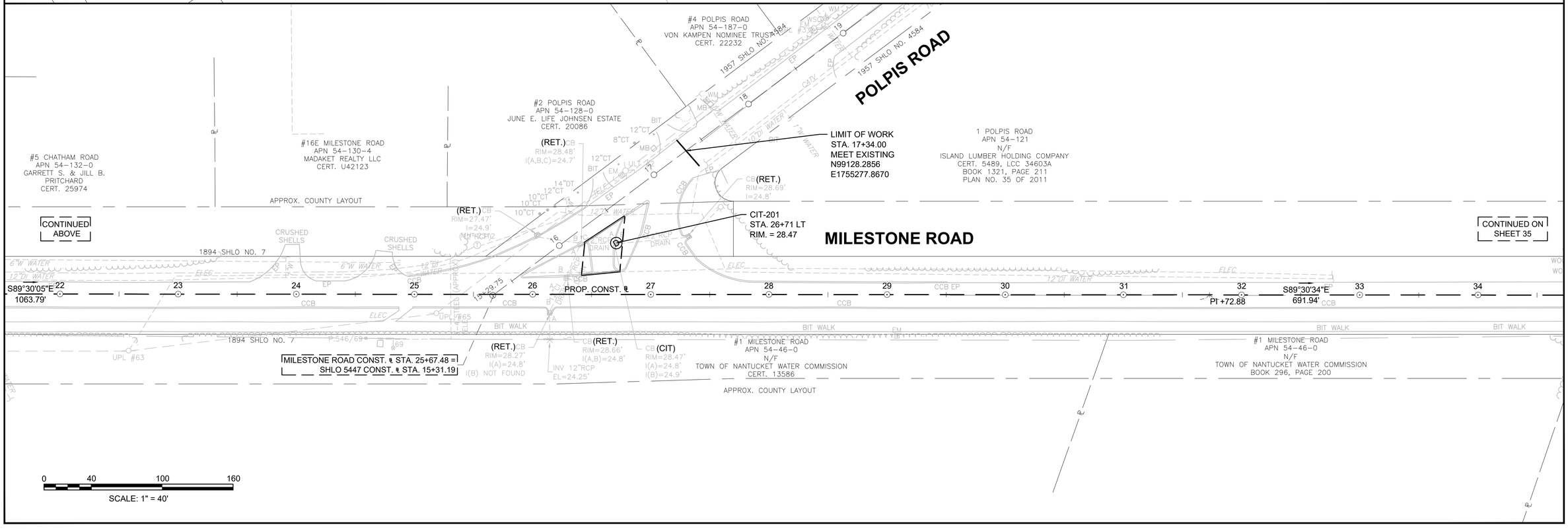
STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET*	RIM	INV DATA	COMMENTS
CB-101	MONOMOY ROAD	400+44 17.12' (L)	RIM = 24.22	12" RCP OUT = 20.19	OFFSET
CB-102	MONOMOY ROAD	400+17 43.50' (R)	RIM = 24.85	12" RCP OUT = 20.85	OFFSET
CB-103	MONOMOY ROAD	400+80 13.67' (R)	RIM = 25.61	12" RCP OUT = 21.59	OFFSET
CB-106	MILESTONE ROAD	16+44 19.46' (L)	RIM = 21.17	12" RCP OUT = 17.17	OFFSET
CIT-105	MONOMOY ROAD	400+14 21.42' (L)	RIM = 23.49	12" RCP IN (DMH-104) = 18.10	



NOTES:

1. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
2. IN INSTANCES WHERE AN EXISTING OR PROPOSED STRUCTURE IS WITHIN A PROPOSED CURB RAMP, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET*	RIM	INV DATA	COMMENTS
CIT-107	MONOMOY ROAD	400+35 157.94' (L)	RIM = 21.55	12" RCP IN (CB-106) = 15.66	
DMH-104	MONOMOY ROAD	400+24 14.48' (R)	RIM = 24.41	12" RCP IN (CB-101) = 19.53 12" RCP IN (CB-102) = 20.36 12" RCP IN (CB-103) = 20.70 12" RCP OUT = 18.55	



0 40 100 160

SCALE: 1" = 40'

NANTUCKET
MILESTONE ROAD

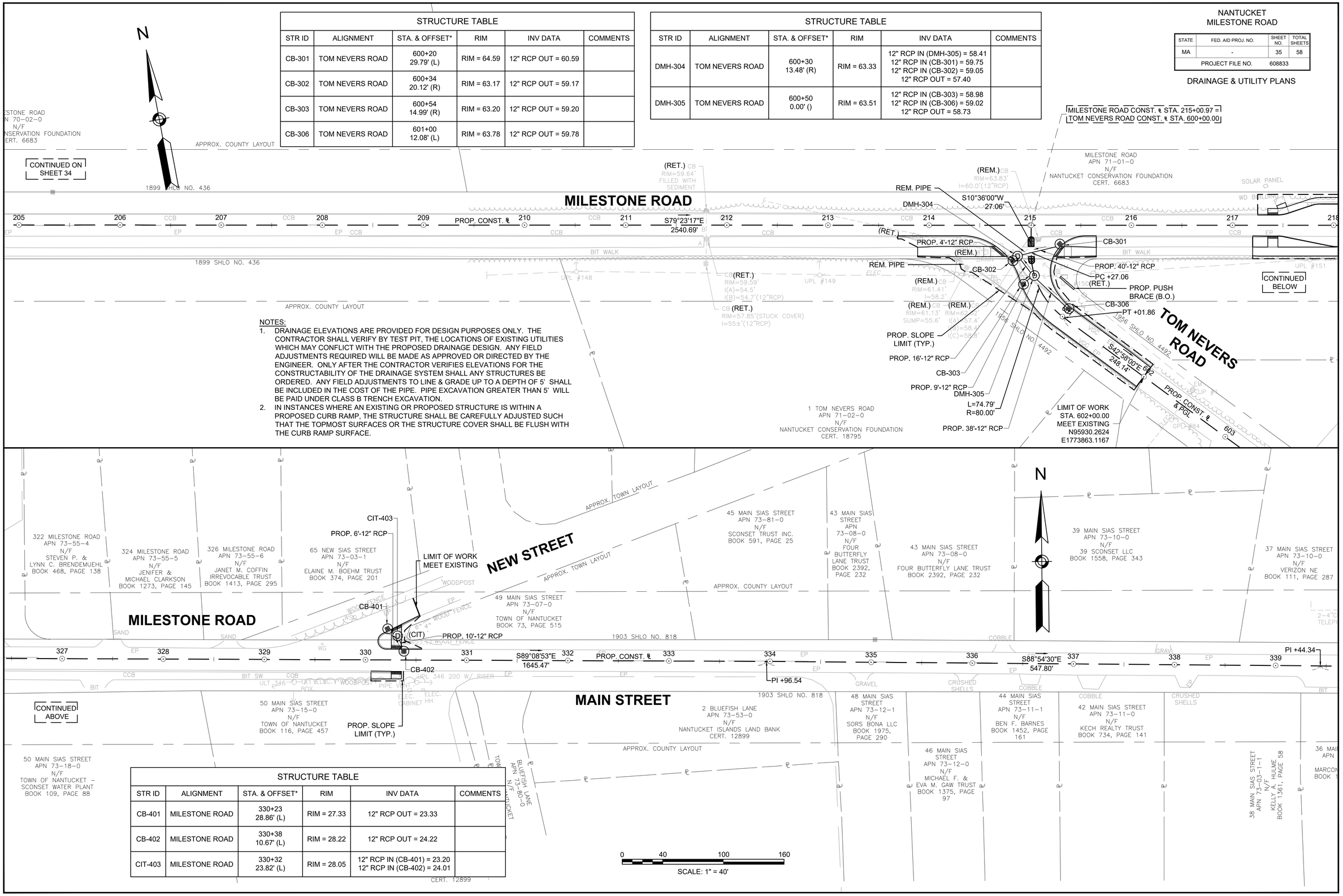
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	58
PROJECT FILE NO.	608833		

DRAINAGE & UTILITY PLANS

608833_HD (DU).DWG Plotted on 18-May-2018 8:04 AM

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET*	RIM	INV DATA	COMMENTS
CB-301	TOM NEVERS ROAD	600+20 29.79' (L)	RIM = 64.59	12" RCP OUT = 60.59	
CB-302	TOM NEVERS ROAD	600+34 20.12' (R)	RIM = 63.17	12" RCP OUT = 59.17	
CB-303	TOM NEVERS ROAD	600+54 14.99' (R)	RIM = 63.20	12" RCP OUT = 59.20	
CB-306	TOM NEVERS ROAD	601+00 12.08' (L)	RIM = 63.78	12" RCP OUT = 59.78	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET*	RIM	INV DATA	COMMENTS
DMH-304	TOM NEVERS ROAD	600+30 13.48' (R)	RIM = 63.33	12" RCP IN (DMH-305) = 58.41 12" RCP IN (CB-301) = 59.75 12" RCP IN (CB-302) = 59.05 12" RCP OUT = 57.40	
DMH-305	TOM NEVERS ROAD	600+50 0.00' ()	RIM = 63.51	12" RCP IN (CB-303) = 58.98 12" RCP IN (CB-306) = 59.02 12" RCP OUT = 58.73	



NOTES:

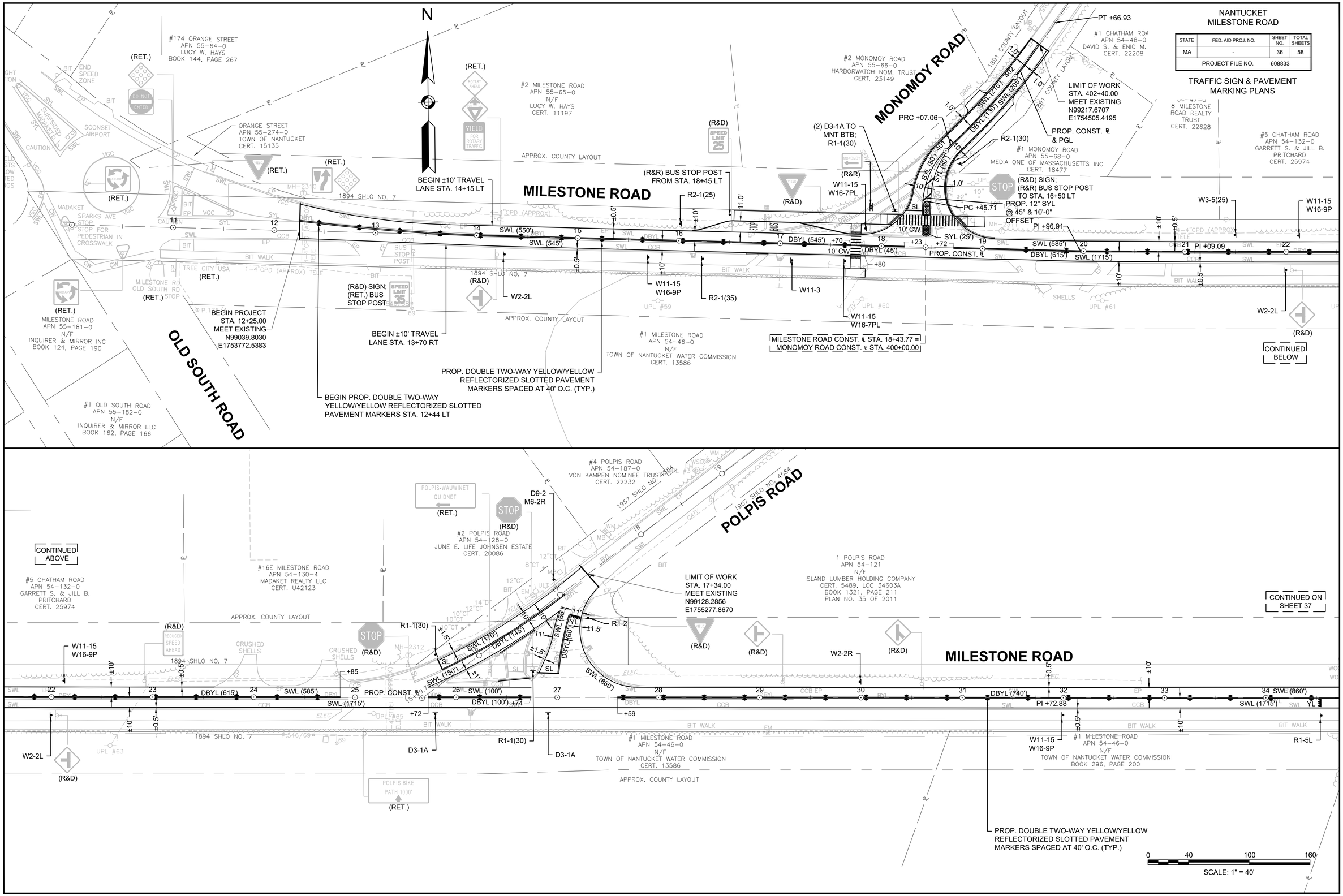
1. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
2. IN INSTANCES WHERE AN EXISTING OR PROPOSED STRUCTURE IS WITHIN A PROPOSED CURB RAMP, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET*	RIM	INV DATA	COMMENTS
CB-401	MILESTONE ROAD	330+23 28.86' (L)	RIM = 27.33	12" RCP OUT = 23.33	
CB-402	MILESTONE ROAD	330+38 10.67' (L)	RIM = 28.22	12" RCP OUT = 24.22	
CIT-403	MILESTONE ROAD	330+32 23.82' (L)	RIM = 28.05	12" RCP IN (CB-401) = 23.20 12" RCP IN (CB-402) = 24.01	

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	36	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

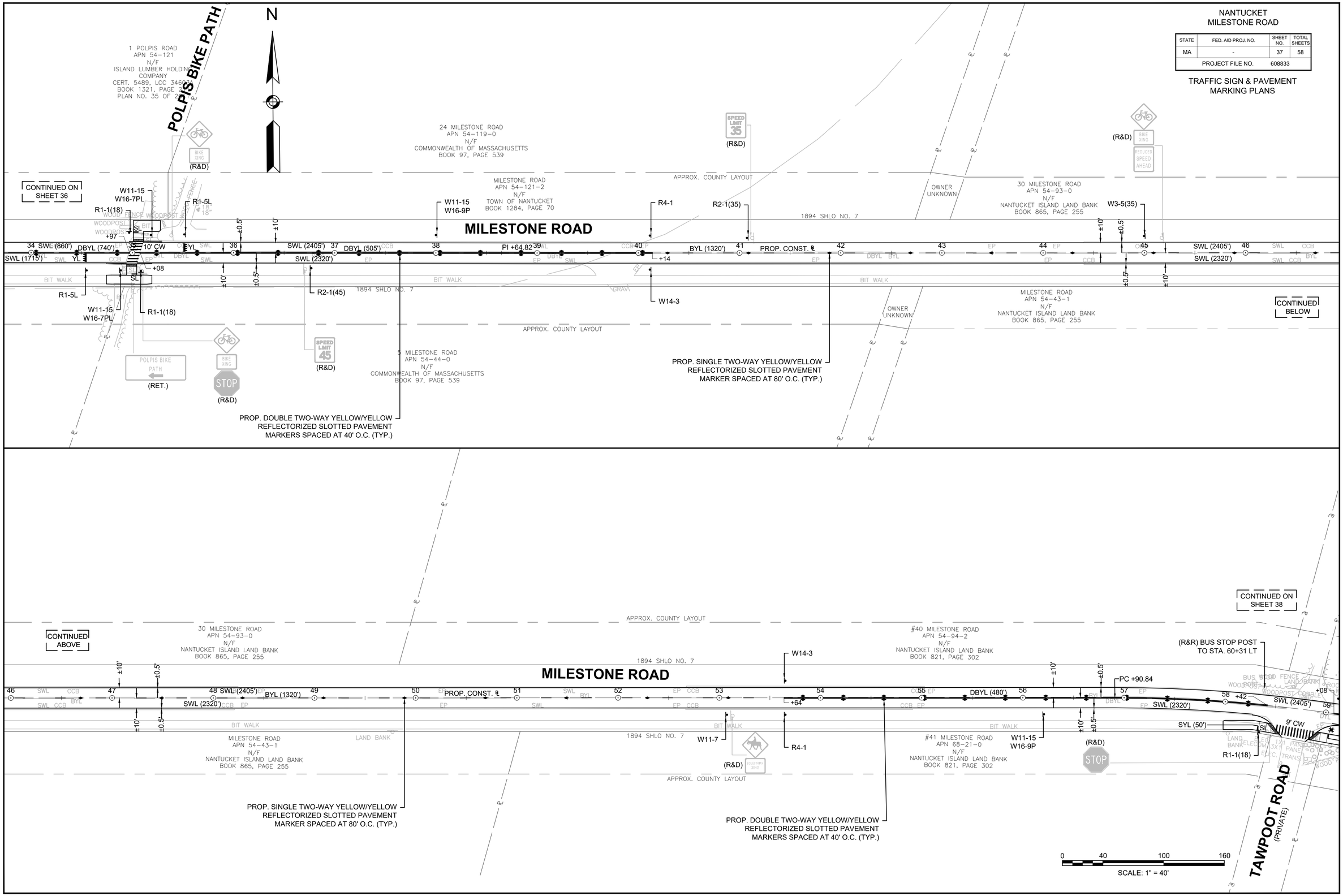


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:09 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	37	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

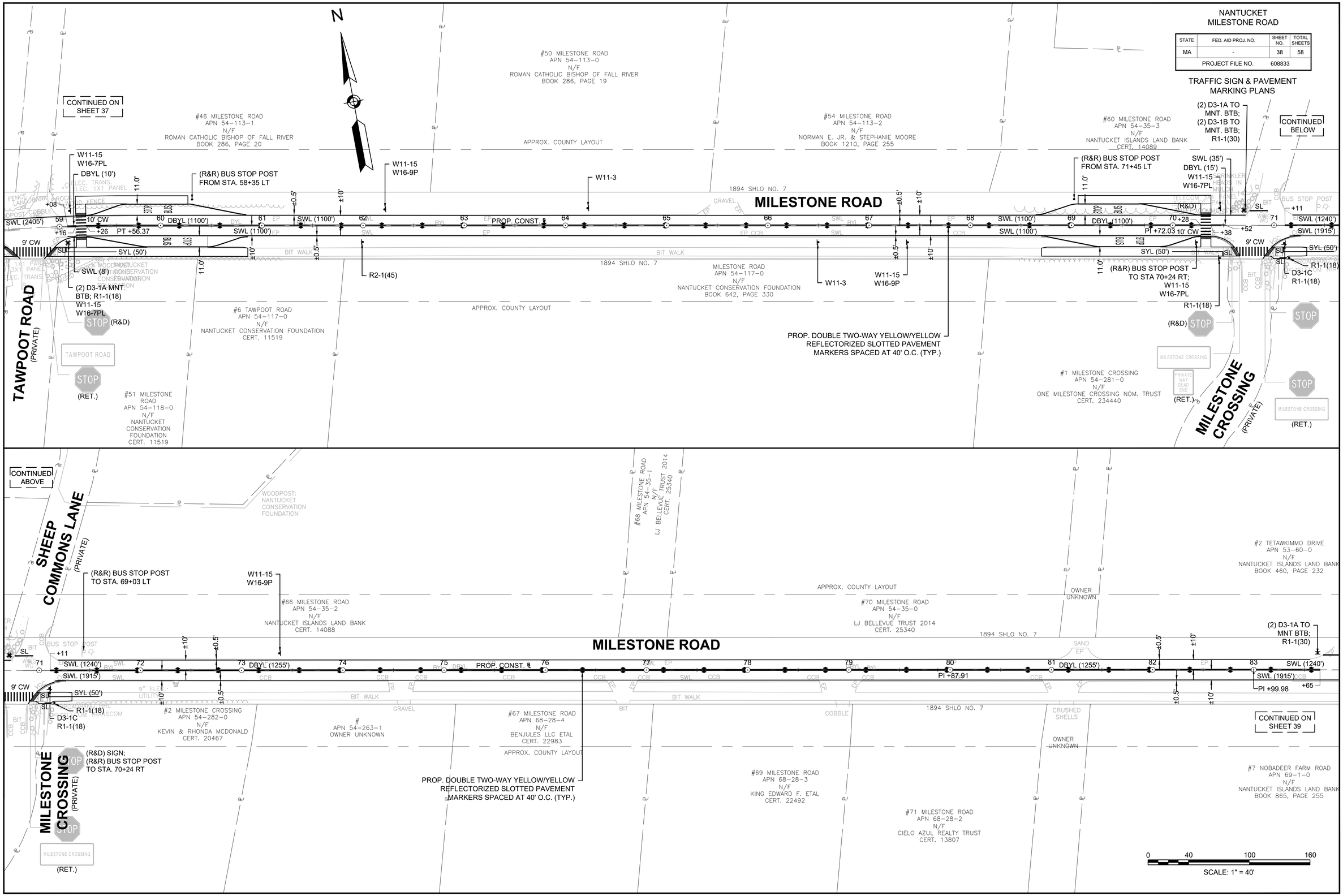


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:09 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

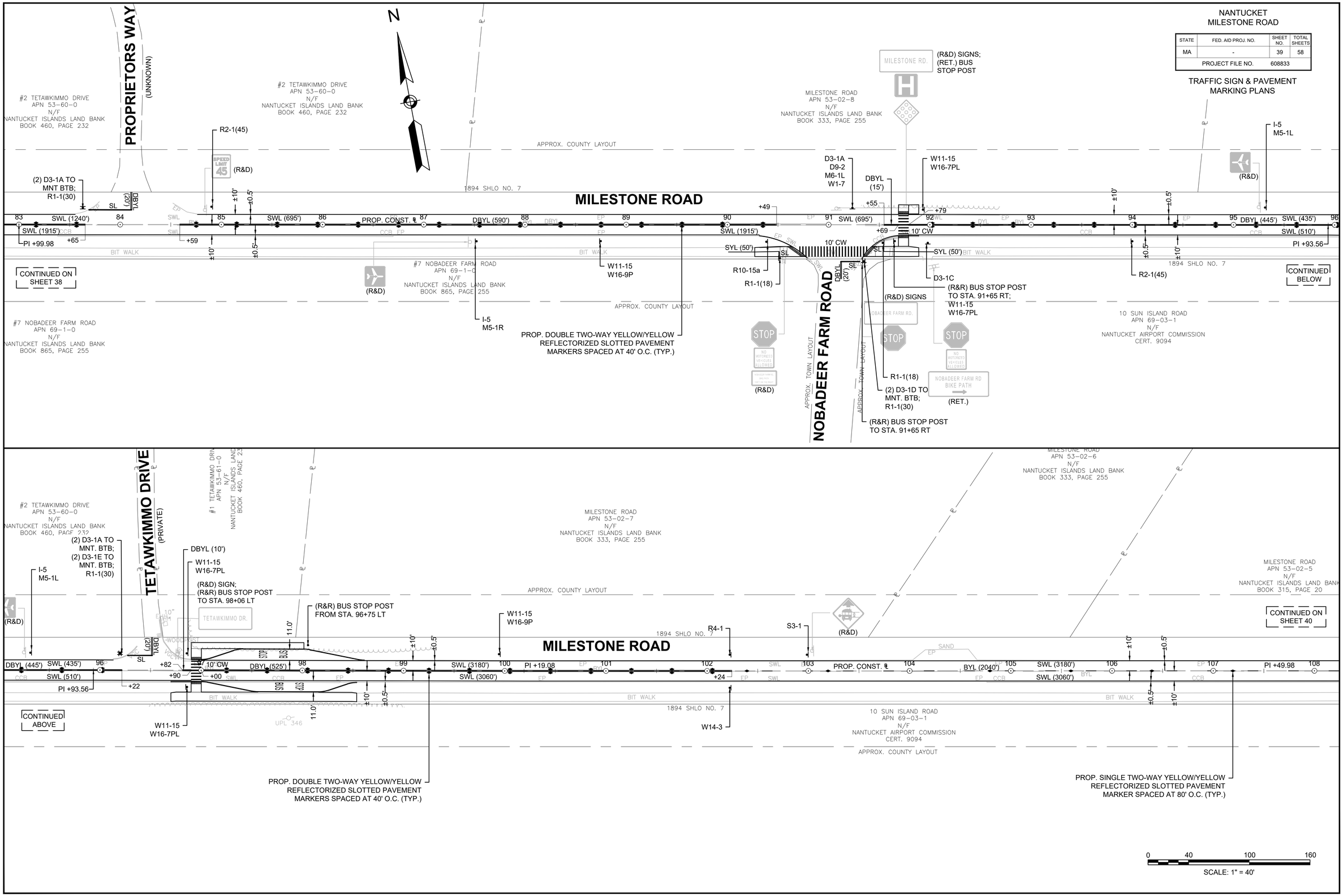


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:09 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	39	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

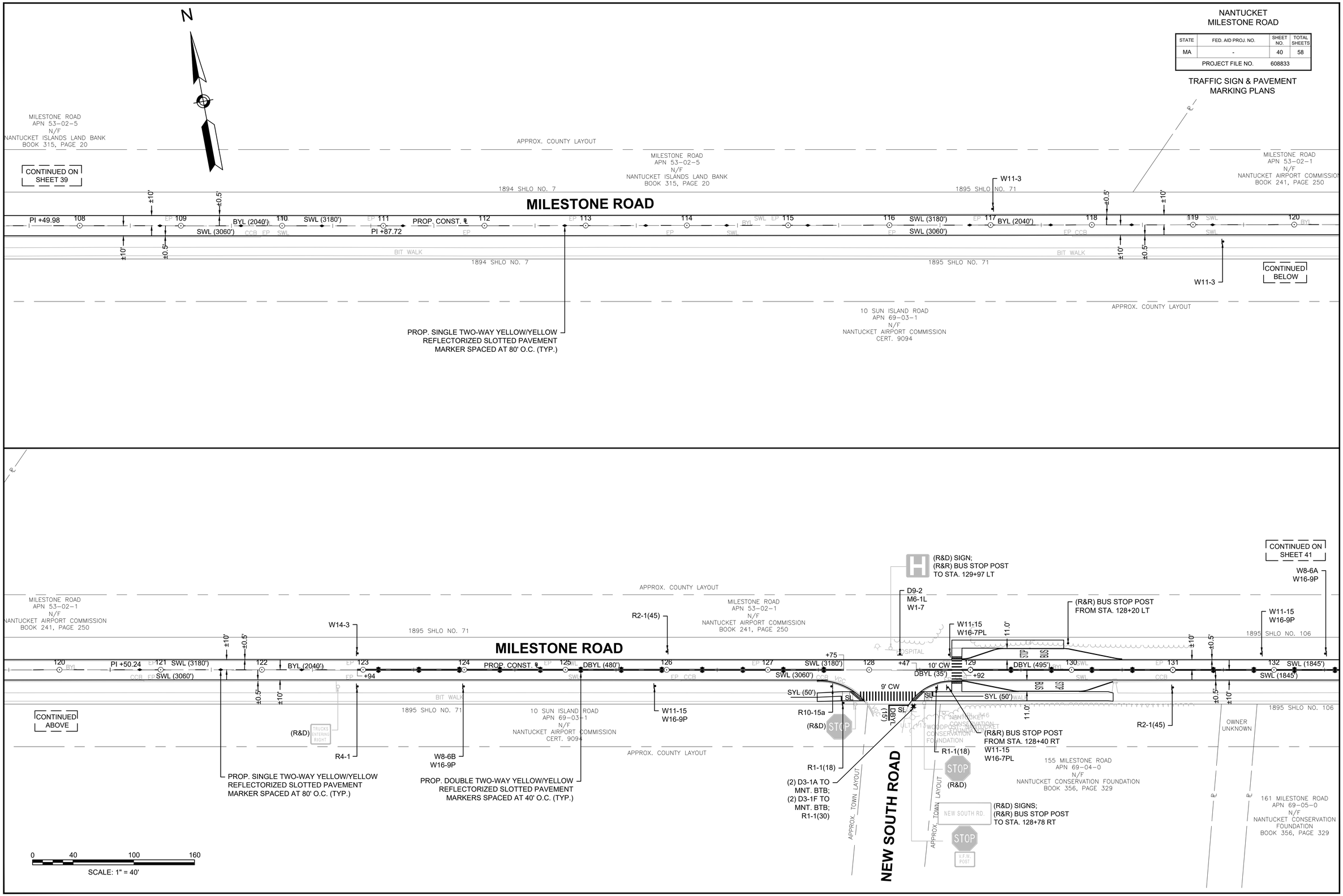


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:10 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	40	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

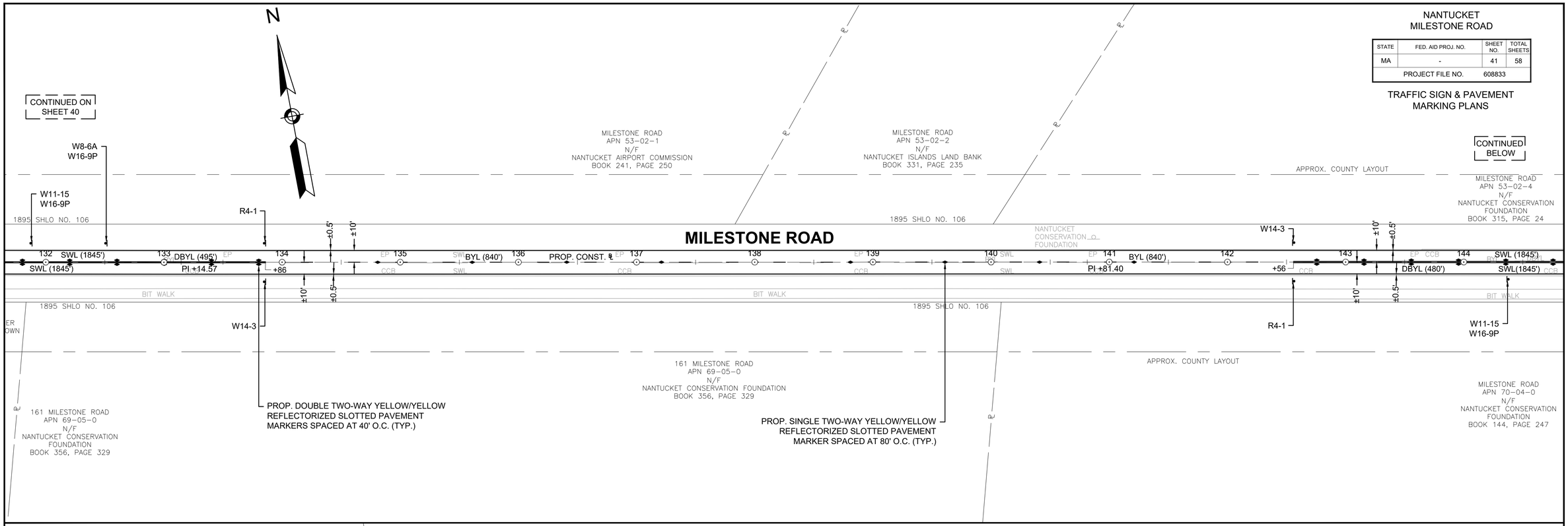


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:10 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	41	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT
MARKING PLANS

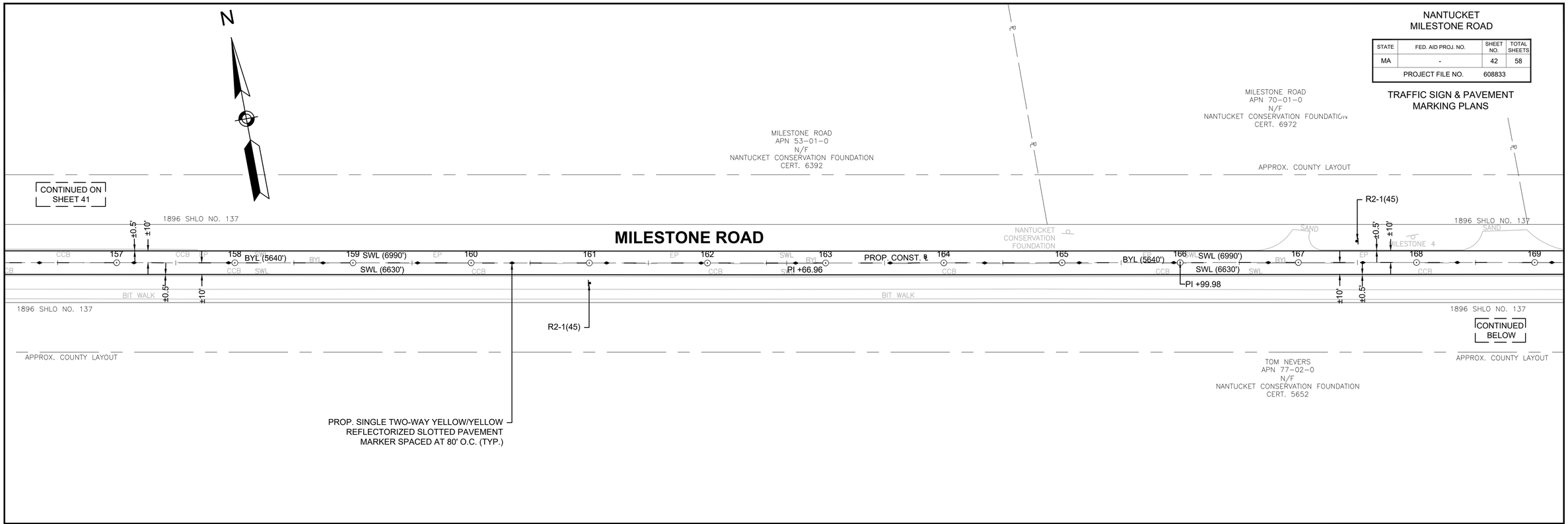


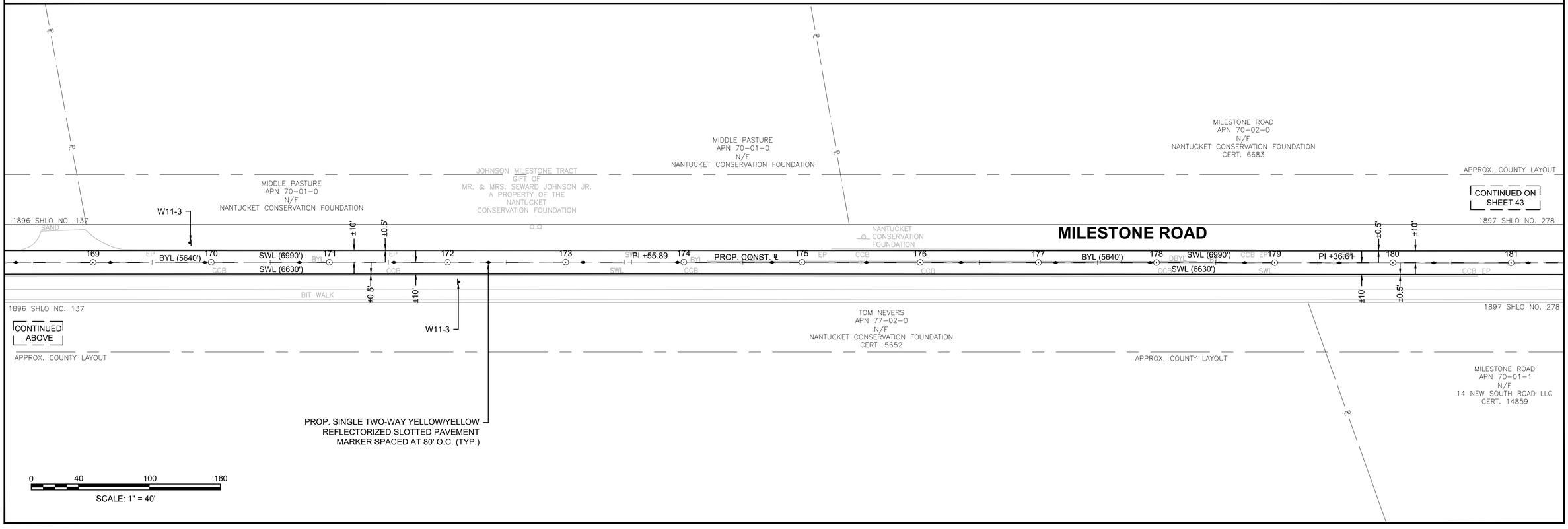
608833_HD (TSPM).DWG Plotted on 18-May-2018 8:11 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



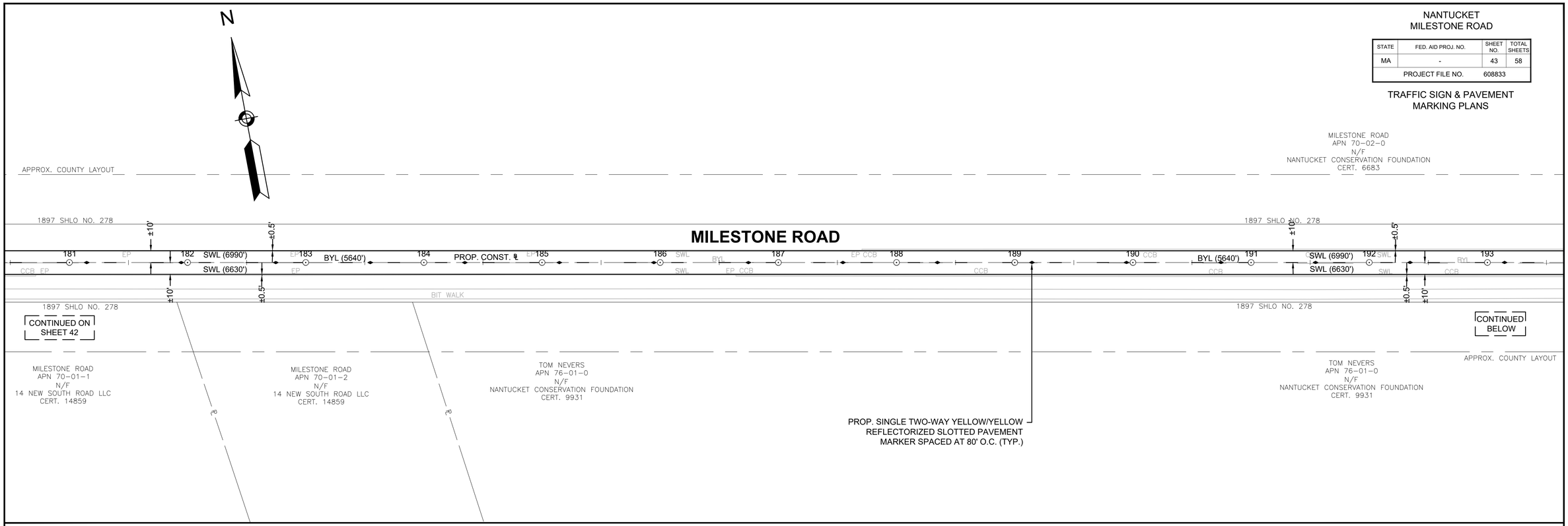


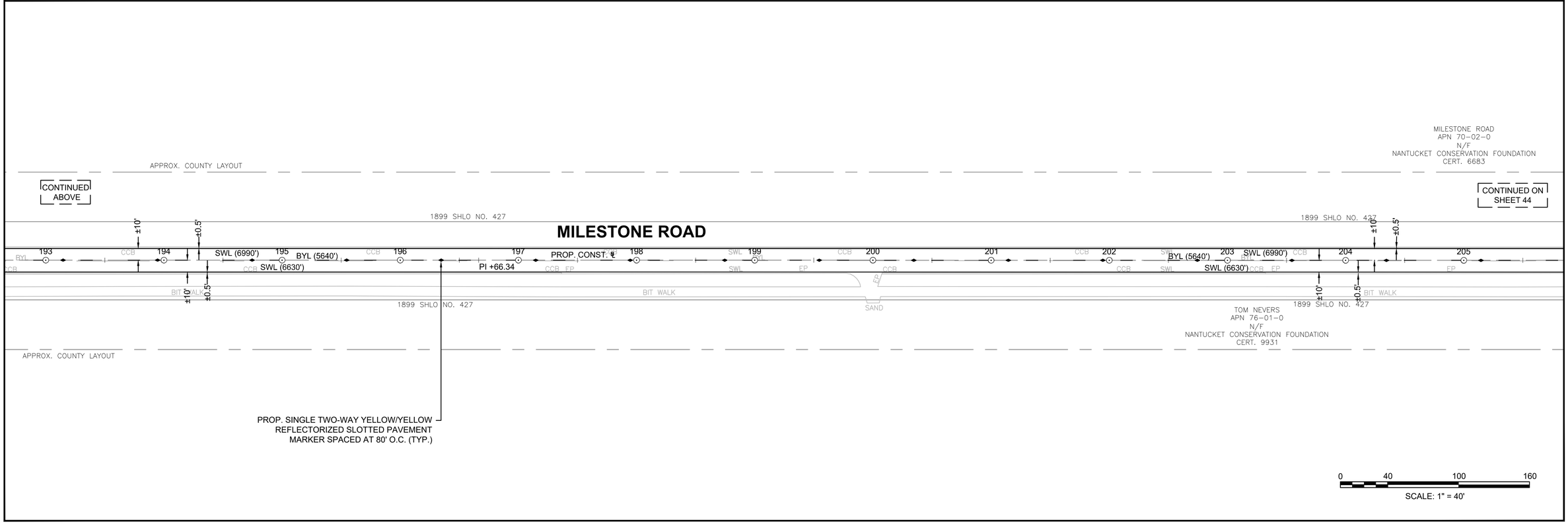
608833_HD (TSPM).DWG Plotted on 18-May-2018 8:11 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	43	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT
MARKING PLANS





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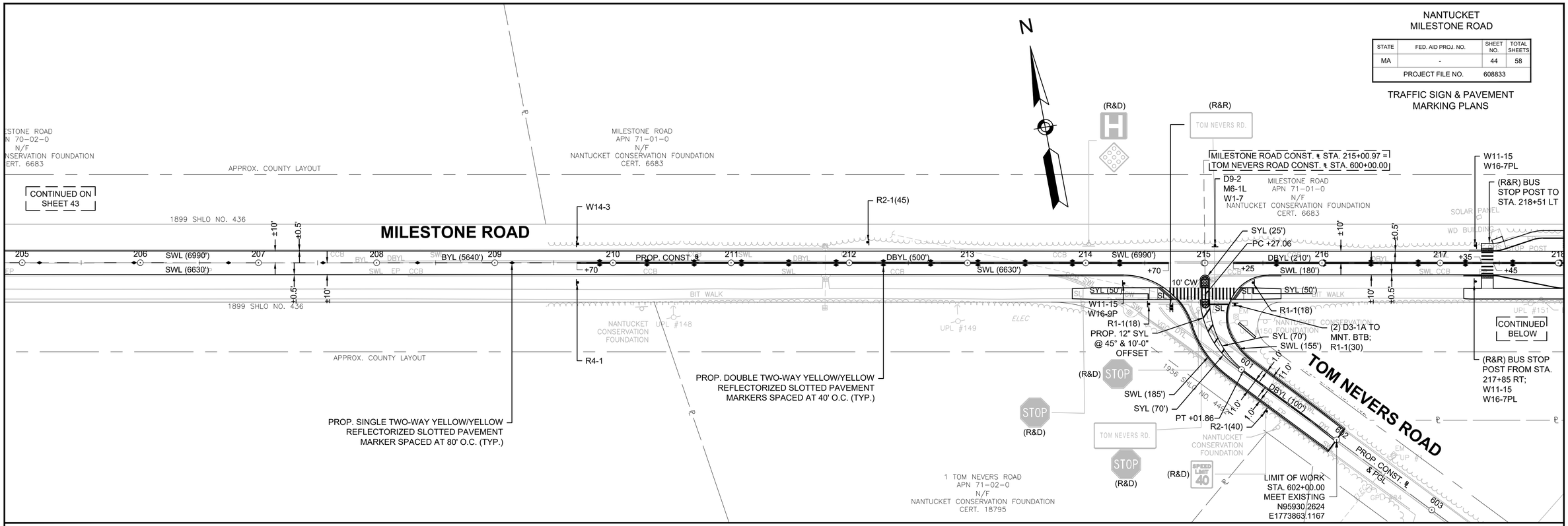
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	44	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

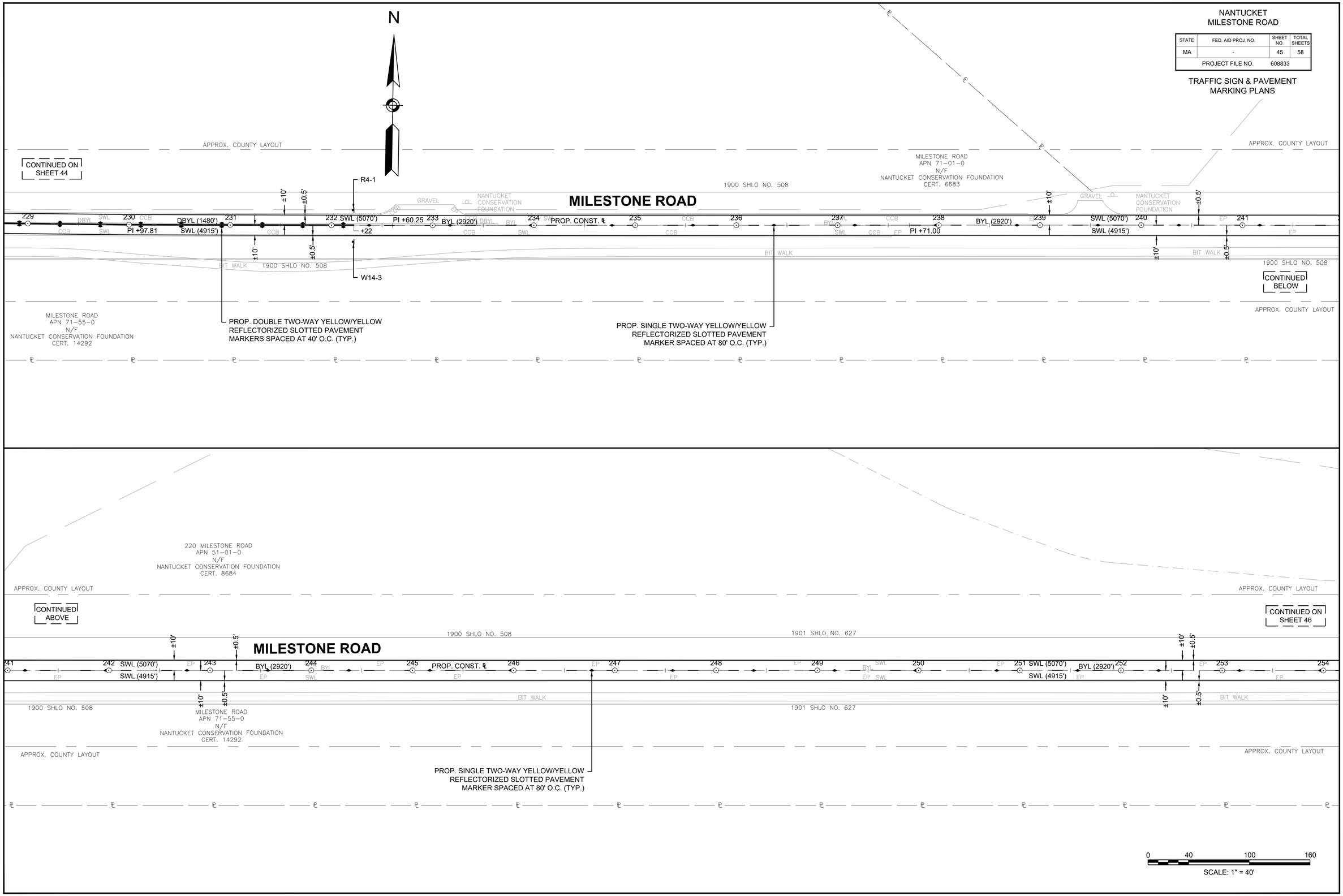


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:12 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

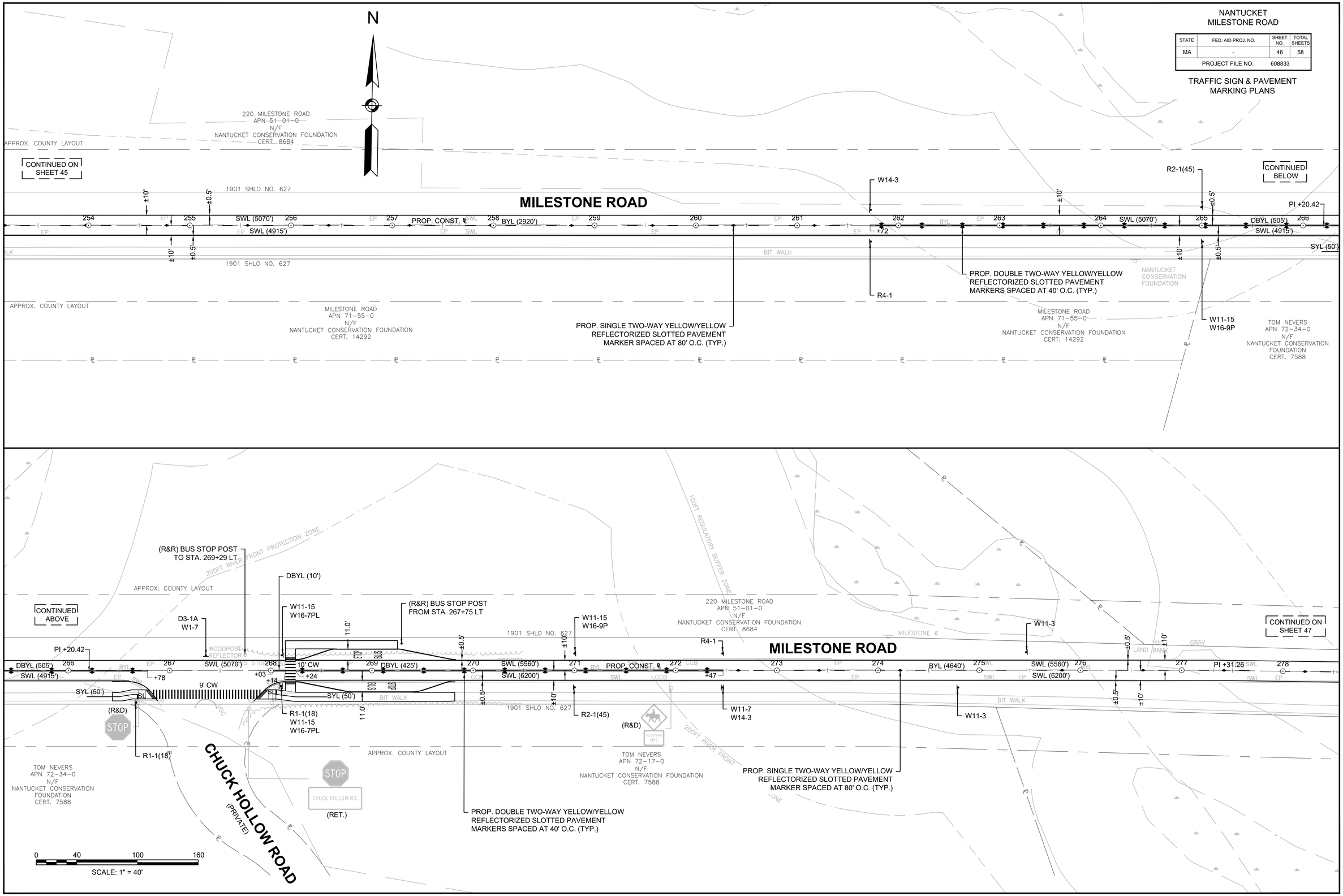


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:12 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	46	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS

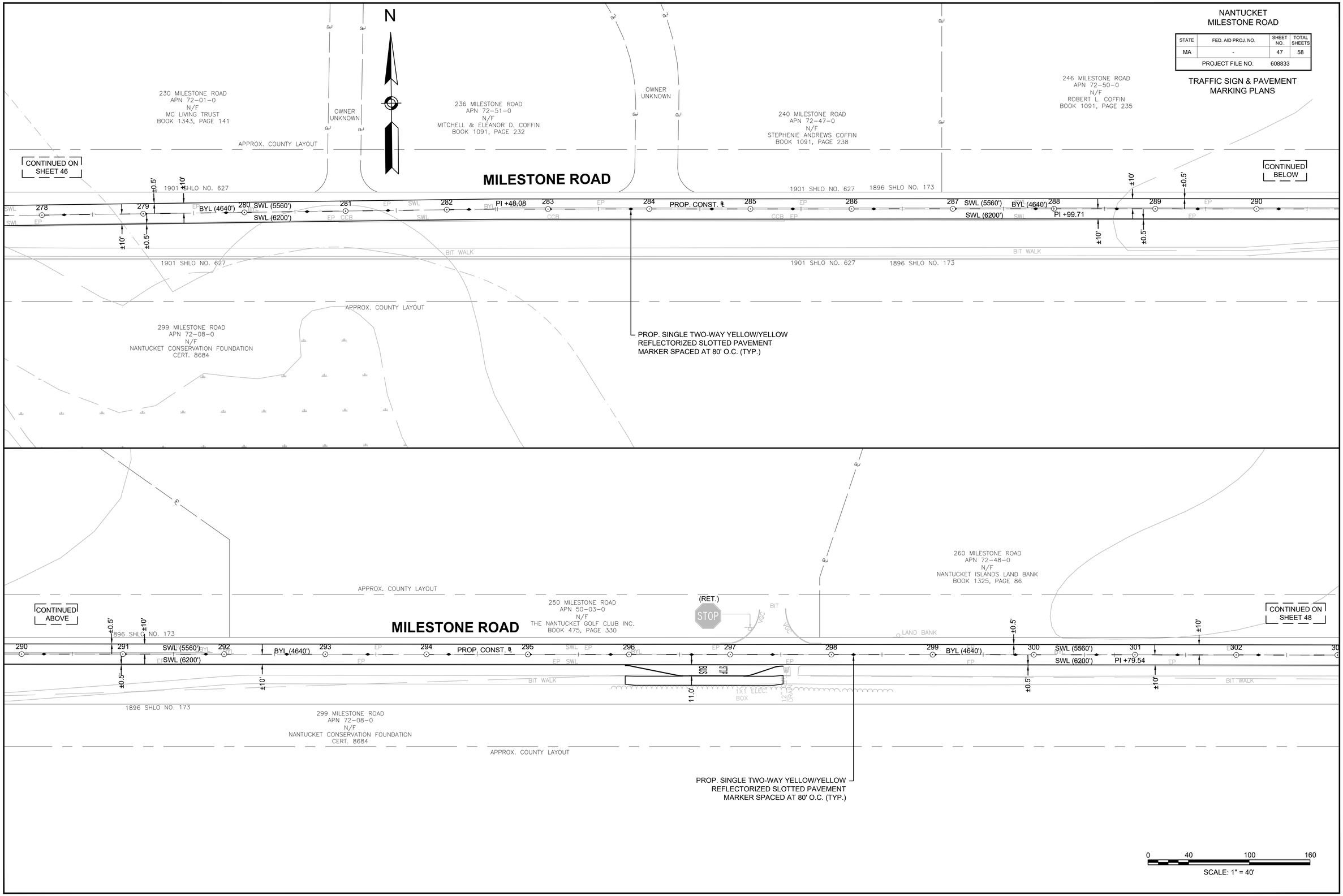


608833_HD (TSPM).DWG Plotted on 18-May-2018 8:13 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	47	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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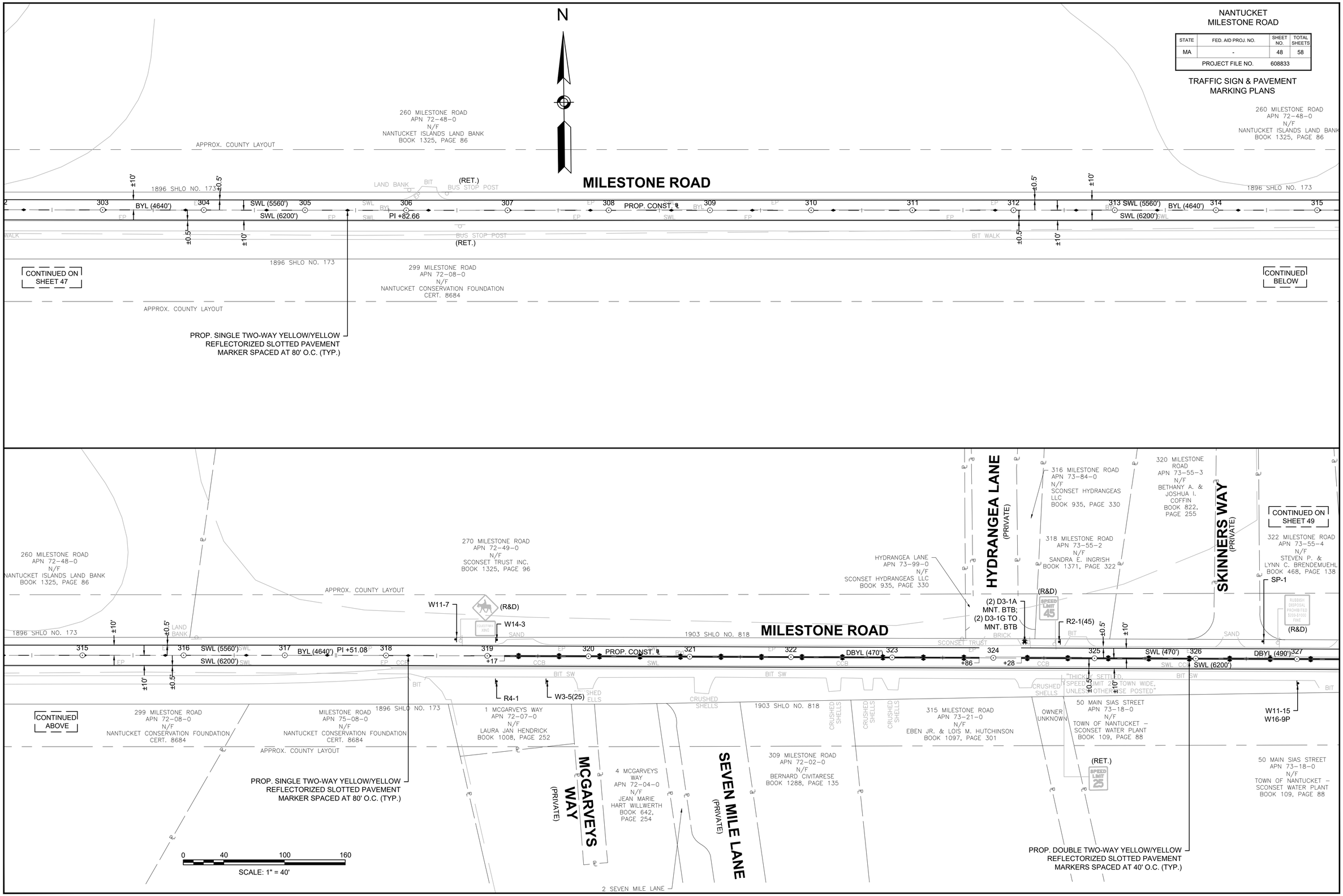
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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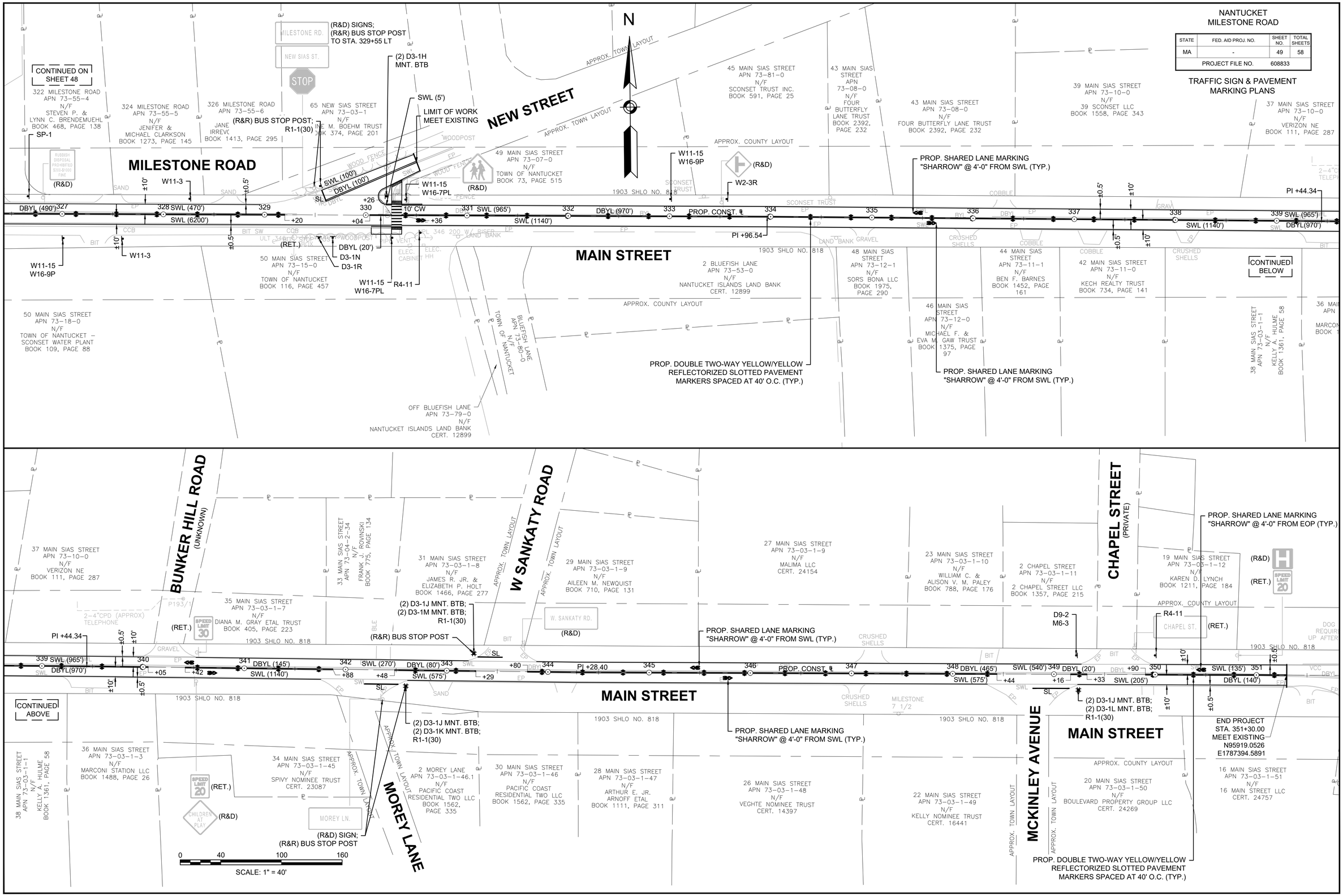
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	49	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



608833_HD (TSPM).DWG Plotted on 18-May-2018 8:14 AM

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	50	58
PROJECT FILE NO.	608833		

TRAFFIC SIGN SUMMARY SHEETS

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			4X4 POST NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
R1-1(30)	30"	30"	STOP	MUTCD STANDARD		13	RED	WHITE	WHITE	10 REQ'D; 3 MNT. ON BUS STOP POST	6.25	81.25
R1-1(18)	18"	18"	STOP	MUTCD STANDARD		17	RED	WHITE	WHITE	17	2.25	38.25
R1-2	36"	36"	YIELD	MUTCD STANDARD		1	WHITE	RED	WHITE	1	9.00	9.00
R1-5L	36"	36"	HERE TO	MUTCD STANDARD		2	WHITE	BLACK/ RED	BLACK	2	9.00	18.00
R2-1(25)	24"	30"	SPEED LIMIT 25	MUTCD STANDARD		1	WHITE	BLACK	BLACK	1	5.00	5.00
R2-1(30)	24"	30"	SPEED LIMIT 30	MUTCD STANDARD		1	WHITE	BLACK	BLACK	1	5.00	5.00
R2-1(35)	24"	30"	SPEED LIMIT 35	MUTCD STANDARD		2	WHITE	BLACK	BLACK	2	5.00	10.00
R2-1(40)	24"	30"	SPEED LIMIT 40	MUTCD STANDARD		1	WHITE	BLACK	BLACK	1	5.00	5.00
R2-1(45)	24"	30"	SPEED LIMIT 45	MUTCD STANDARD		13	WHITE	BLACK	BLACK	13	5.00	65.00
R4-1	24"	30"	DO NOT PASS	MUTCD STANDARD		12	WHITE	BLACK	BLACK	12	5.00	60.00
R4-11	30"	30"	MAY USE FULL LANE	MUTCD STANDARD		2	WHITE	BLACK	BLACK	2	6.25	12.50
R10-15a	30"	30"	TURNING VEHICLES TO	MUTCD STANDARD		2	WHITE/ YELLOW	BLACK/ RED	BLACK	2	6.25	12.50
W1-7	36"	18"		MUTCD STANDARD		5	YELLOW	BLACK	BLACK	2 MNT W/ D9-2; 3 MNT W/ D3-1A	4.50	22.50
W2-2L	30"	30"		MUTCD STANDARD		3	YELLOW	BLACK	BLACK	3	6.25	18.75
W2-2R	30"	30"		MUTCD STANDARD		1	YELLOW	BLACK	BLACK	1	6.25	6.25
W2-3R	30"	30"		MUTCD STANDARD		1	YELLOW	BLACK	BLACK	1	6.25	6.25
W3-5(25)	36"	36"	25	MUTCD STANDARD		2	YELLOW/ WHITE	BLACK	BLACK	2	9.00	18.00

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			4X4 POST NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
W3-5(35)	36"	36"	35	MUTCD STANDARD		1	YELLOW/ WHITE	BLACK	BLACK	1	9.00	9.00
W8-6A	30"	30"	TRUCKS ENTERING LEFT	MUTCD STANDARD		1	YELLOW	BLACK	BLACK	1	6.25	6.25
W8-6B	30"	30"	TRUCKS ENTERING RIGHT	MUTCD STANDARD		1	YELLOW	BLACK	BLACK	1	6.25	6.25
W11-3	30"	30"		MUTCD STANDARD		13	YELLOW	BLACK	BLACK	13	6.25	81.25
W11-7	30"	30"		MUTCD STANDARD		3	YELLOW	BLACK	BLACK	3	6.25	18.75
W11-15	30"	30"		MUTCD STANDARD		42	FLOURE-SCENT YELLOW/ GREEN	BLACK	BLACK	36 REQ'D; 2 MNT. W/ R1-1(18); 4 MNT. ON BUS STOP POST	6.25	262.50
W13-1P	18"	18"	35 MPH	MUTCD STANDARD		1	YELLOW	BLACK	BLACK	1 MNT. W/ W2-2L	2.25	2.25
W14-3	48"	36"	NO PASSING ZONE	MUTCD STANDARD		12	YELLOW	BLACK	BLACK	11 REQ'D; 1 MNT. W/ W11-7	6.00	72.00
W16-7PL	24"	12"		MUTCD STANDARD		22	FLOURE-SCENT YELLOW/ GREEN	BLACK	BLACK	16 MNT. W/ W11-15; 2 MNT. W/ R1-1(18); 4 MNT. ON BUS STOP POST	2.00	44.00
W16-9P	24"	12"	AHEAD	MUTCD STANDARD		22	FLOURE-SCENT YELLOW/ GREEN	BLACK	BLACK	20 MNT. W/ W11-15	2.00	44.00
							YELLOW	BLACK	BLACK	1 MNT. W/ W8-6A; 1 MNT. W/ W8-6B		
M5-1L	21"	15"		MUTCD STANDARD		1	GREEN	WHITE	WHITE	1 MNT. W/ I-5	2.19	2.19
M5-1R	21"	15"		MUTCD STANDARD		1	GREEN	WHITE	WHITE	1 MNT. W/ I-5	2.19	2.19
M6-1L	21"	15"		MUTCD STANDARD		3	BLUE	WHITE	WHITE	2 MNT. W/ D9-2; 1 MNT. W/ D3-1A	2.19	6.56
M6-2R	21"	15"		MUTCD STANDARD		1	BLUE	WHITE	WHITE	1 MNT. W/ D9-2	2.19	2.19
M6-3	21"	15"		MUTCD STANDARD		1	BLUE	WHITE	WHITE	1 MNT. W/ D9-2	2.19	2.19

608833_HD (SS).DWG Plotted on 17-May-2018 4:15 PM

608833_HD (SS).DWG Plotted on 17-May-2018 4:15 PM

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			4X4 POST NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
I-5	24"	24"		MUTCD STANDARD		2	GREEN	WHITE	WHITE	2	4.00	8.00
S3-1	36"	36"		MUTCD STANDARD		1	FLOURE-SCENT YELLOW/ GREEN	BLACK / RED	BLACK	1	9.00	9.00
SP-1	30"	36"	RUBBISH DISPOSAL PROHIBITED $200-$1000 FINE	4"B	4" 2" 2" 2" 2" 4"	1	WHITE	BLACK	BLACK	1	7.50	7.50
D3-1A	To Be Provided By Town		Milestone Rd	To Be Provided By Town		21	To Be Provided By Town			6 REQ'D; 12 MNT. BTB W/ R1-1(30); 2 MNT. BTB W/ R1-1(18)	--	--
D3-1B	To Be Provided By Town		Sheep Commons Ln	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB W/ R1-1(30)	--	--
D3-1C	To Be Provided By Town		Sconset Bike Path	To Be Provided By Town		2	To Be Provided By Town			1 REQ'D; 1 MNT. W/ R1-1(18)	--	--
D3-1D	To Be Provided By Town		Nobadeer Farm Rd	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB W/ R1-1(30)	--	--
D3-1E	To Be Provided By Town		Tetawkimmo Dr	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB W/ R1-1(30)	--	--
D3-1F	To Be Provided By Town		New South Rd	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB W/ R1-1(30)	--	--
D3-1G	To Be Provided By Town		Hydrangea Ln	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB W/ D3-1A	--	--
D3-1H	To Be Provided By Town		New St	To Be Provided By Town		2	To Be Provided By Town			1 REQ'D	--	--
D3-1J	To Be Provided By Town		Main St	To Be Provided By Town		6	To Be Provided By Town			2 MNT. BTB W/ R1-1(30); 4 MNT. BTB ON BUS STOP POST	--	--
D3-1K	To Be Provided By Town		Morey Ln	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB ON BUS STOP POST	--	--
D3-1L	To Be Provided By Town		McKinley Ave	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB W/ R1-1(30)	--	--
D3-1M	To Be Provided By Town		W. Sankaty Rd	To Be Provided By Town		2	To Be Provided By Town			MNT. BTB ON BUS STOP POST	--	--
D3-1N	To Be Provided By Town		← Main St	To Be Provided By Town 9"x6" ARROW		1	To Be Provided By Town			1 REQ'D	--	--
D3-1R	To Be Provided By Town		Milestone Rd →	To Be Provided By Town 9"x6" ARROW		1	To Be Provided By Town			1 REQ'D	--	--
D5-1	78"	36"	SCENIC VIEW AHEAD	8"D 8"D	6.5" 7" 6.5"	1	BLUE	WHITE	WHITE	2	19.50	19.50
D5-5	48"	48"	SCENIC VIEW →	8"D 8"D 28"x10" ARROW	6" 6" 5.5" 4.5"	1	BLUE	WHITE	WHITE	2	16.00	16.00
D9-2	24"	24"		MUTCD STANDARD		5	BLUE	WHITE	WHITE	4 REQ'D 1 MNT. W/ D3-1A	4.00	20.00

SIGN SUMMARY NOTES

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 POSTS PER THE TOWN OF NANTUCKET'S STANDARDS.
3. STREET NAME SIGNS WILL BE PROVIDED BY THE TOWN OF NANTUCKET FOR THE INSTALLATION BY THE CONTRACTOR. INSTALLATION WILL BE PAID FOR UNDER ITEM 874.12.
4. QUANTITIES OF SIGNS AND POSTS SHOWN ON THE TRAFFIC SIGN SUMMARY SHEETS MAY DIFFER FROM THE TRAFFIC SIGN & PAVEMENT MARKING PLANS. WHERE DIFFERENCES OCCUR, THE TRAFFIC SIGN & PAVEMENT MARKING PLANS SHALL PREVAIL.

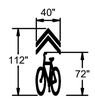
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	52	58
PROJECT FILE NO.	608833		

TRAFFIC LEGEND ABBREVIATIONS & NOTES

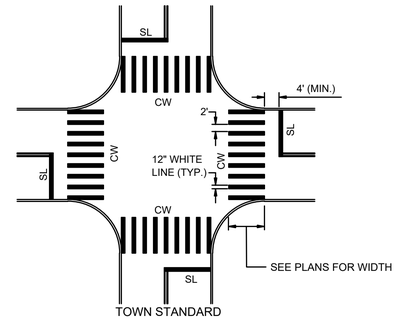
GENERAL NOTES

1. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
2. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
3. ALL EXISTING PAVEMENT MARKINGS WITHIN THE LIMIT OF WORK THAT ARE IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 850 OF MASSDOT STANDARD SPECIFICATIONS.



SHARED LANE "SHARROW" MARKING DETAIL

NOT TO SCALE

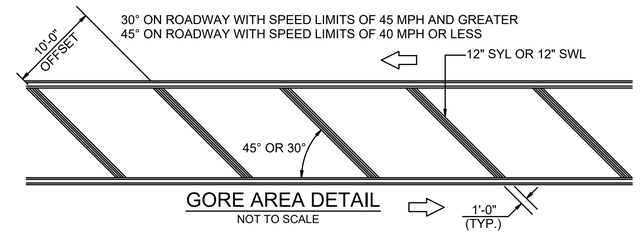


TYPICAL CROSSING MARKINGS

NOT TO SCALE

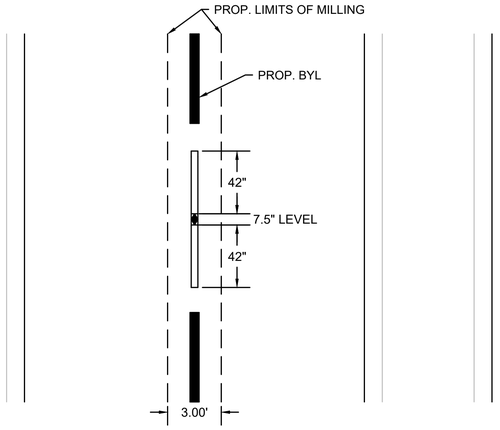
NOTES:

1. ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINE) WILL BE ACCEPTED

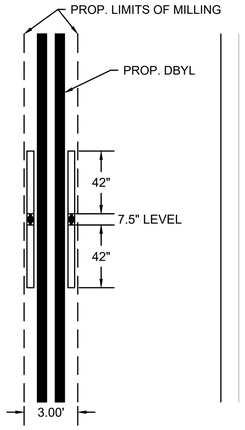


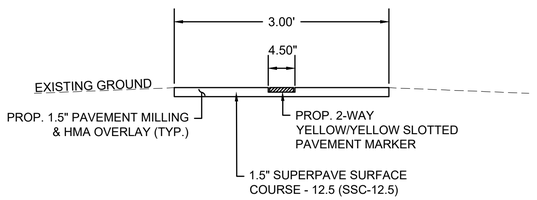
GORE AREA DETAIL

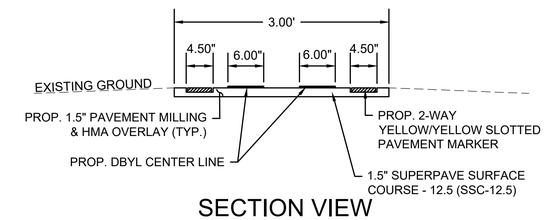
NOT TO SCALE



PLAN VIEW







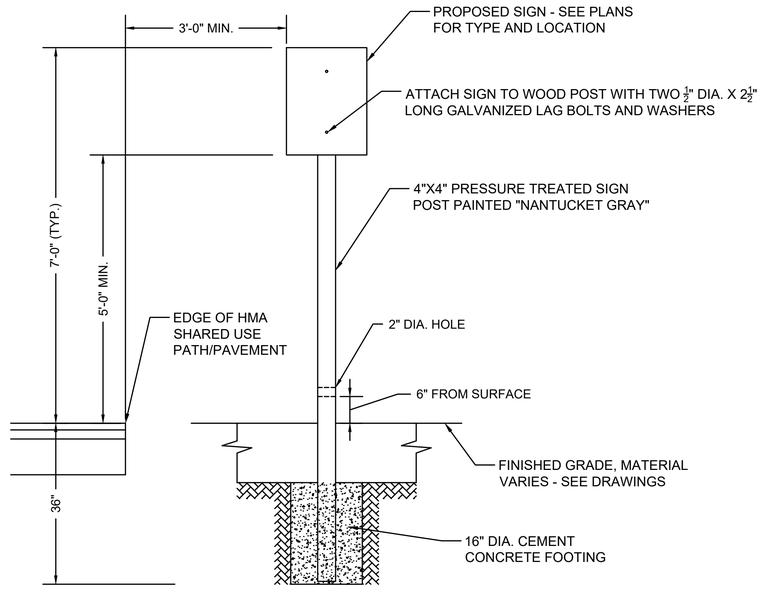
SECTION VIEW

NOTES:

1. 1.5" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)
2. ASPHALT EMULSION FOR TACK COAT SHALL BE (RS-1H) TO RESIST TRACKING BY HAUL VEHICLES. HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE IN ACCORDANCE WITH SECTION 450. QUALITY ASSURANCE FOR HMA.

YELLOW/YELLOW REFLECTORIZED SLOTTED PAVEMENT MARKER DETAIL

NOT TO SCALE



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

608833_HD (TL).DWG Plotted on 17-May-2018 4:15 PM

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 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 4:00pm, MONDAY TO FRIDAY). THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF ROAD CLOSURE.

8. TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES: ENGLISH UNITS:
   L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H.
   L = WS^2 /60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H.
   WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.

9. ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1P PLATES SHALL BE USED WHERE APPROPRIATE.

10. 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.

11. DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.

12. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH THE NANTUCKET REGIONAL TRANSIT AUTHORITY ON BUS OPERATIONS AND BUS STOPS DURING CONSTRUCTION.

GRADE DIFFFERENCES

13. 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, THIS SHEET.

14. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.

15. 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.

16. 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, THIS SHEET). 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

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

18. CONSTRUCTION SIGNING SHOWN ON THE ADVANCE SIGNING PLAN SHALL ONLY BE USED WHEN WORK IS BEING DONE WHICH RESTRICTS TRAFFIC.

19. 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.

20. ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.

21. 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.

22. USE W20-7 OR MA-W20-7b 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.

23. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD NCHRP 350 OR MASH CRASH TESTED SUPPORT. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.

PAVEMENT MARKINGS

24. PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS.

25. 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.

CHANNNELIZATION

26. THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT.

27. REFLECTORIZED CONES SHALL BE 36" HIGH.

28. ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE MANUAL FOR THE ASSESSMENT OF SAFETY HARDWARE (MASH). IF THEY DO NOT MEET THESE CRITERIA THEY MUST BE REMOVED FROM THE PROJECT.

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER		
MA-R2-10a	48"	36"	WORK ZONE / SPEEDING FINES DOUBLED	MASSDOT STANDARD		13	ORANGE / WHITE	BLACK	BLACK	12.00	156.00
MA-R2-10e	36"	48"	END ROAD WORK / DOUBLE FINES END	MASSDOT STANDARD		13	ORANGE / WHITE	BLACK	BLACK	12.00	156.00
R11-2f	48"	36"	PATH CLOSED	MUTCD STANDARD		4	WHITE	BLACK	BLACK	12.00	48.00
W5-1	36"	36"	ROAD NARROWS	MUTCD STANDARD		1	ORANGE	BLACK	BLACK	9.00	9.00
W8-1	36"	36"	BUMP	MUTCD STANDARD		4	ORANGE	BLACK	BLACK	9.00	36.00
W8-3	36"	36"	PAVEMENT ENDS	MUTCD STANDARD		2	ORANGE	BLACK	BLACK	9.00	18.00
W8-8	36"	36"	ROUGH ROAD	MUTCD STANDARD		2	ORANGE	BLACK	BLACK	9.00	18.00
W13-1P	24"	30"	XX M.P.H.	MUTCD STANDARD		2	ORANGE	BLACK	BLACK	5.00	10.00
W20-1	48"	48"	ROAD WORK AHEAD	MUTCD STANDARD		13	ORANGE	BLACK	BLACK	16.00	208.00
W20-1b	36"	36"	PATH WORK AHEAD	MUTCD STANDARD		2	ORANGE	BLACK	BLACK	9.00	18.00
W20-4	36"	36"	ONE LANE ROAD XX FT	MUTCD STANDARD		6	ORANGE	BLACK	BLACK	9.00	54.00
W20-7	36"	36"		MUTCD STANDARD		2	ORANGE	BLACK	BLACK	9.00	18.00
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD	MASSDOT STANDARD		6	ORANGE	BLACK	BLACK	9.00	54.00
W21-5a	36"	36"	RIGHT SHOULDER CLOSED	MUTCD STANDARD		1	ORANGE	BLACK	BLACK	9.00	9.00
W24-1L	36"	36"		MUTCD STANDARD		1	ORANGE	BLACK	BLACK	9.00	9.00
W24-1R	36"	36"		MUTCD STANDARD		1	ORANGE	BLACK	BLACK	9.00	9.00
M4-10L	48"	18"	DETOUR	MUTCD STANDARD		1	ORANGE / BLACK	BLACK	BLACK	6.00	6.00
M4-10R	48"	18"	DETOUR	MUTCD STANDARD		1	ORANGE / BLACK	BLACK	BLACK	6.00	6.00

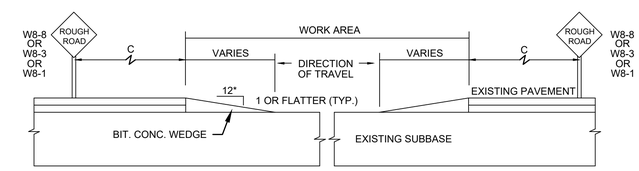
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	53	58
PROJECT FILE NO.	608833		

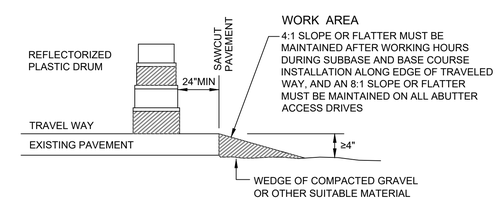
TEMPORARY TRAFFIC CONTROL PLANS

TRAFFIC MANAGEMENT LEGEND

- WORK AREA
- DIRECTION OF TRAVEL
- REFLECTORIZED DRUM OR CONE
- A — REFLECTORIZED DRUM WITH TYPE 'A' FLASHING WARNING LIGHT
- P / — POLICE OFFICER OR FLAGGER CONTROL
- PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
- FLASHING ARROW BOARD (30"x 60" STD. SIZE WITH 13 LAMPS, MIN.)
- TEMPORARY PRECAST CONCRETE BARRIER WITH TEMPORARY FENCE & WHITE REFLECTORS
- TEMPORARY IMPACT ATTENUATOR
- PAVEMENT MARKINGS TO COVER OR REMOVE (SEE NOTES 23 & 24)
- PORTABLE CHANGEABLE MESSAGE SIGN
- MOVABLE IMPACT ATTENUATOR



TEMPORARY RAMP



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SUGGESTED WORK ZONE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
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 6C-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.

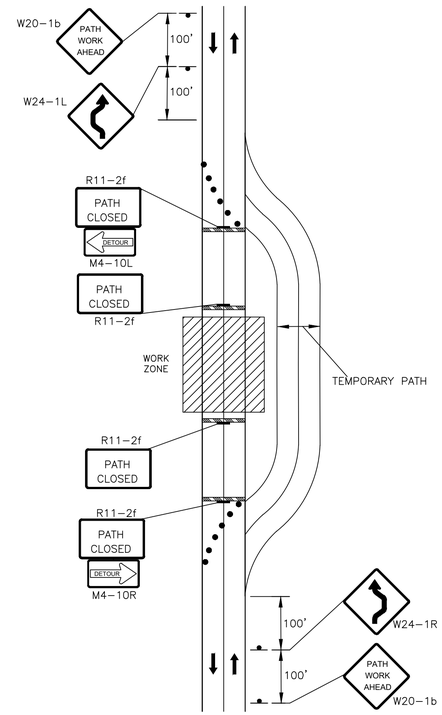
MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

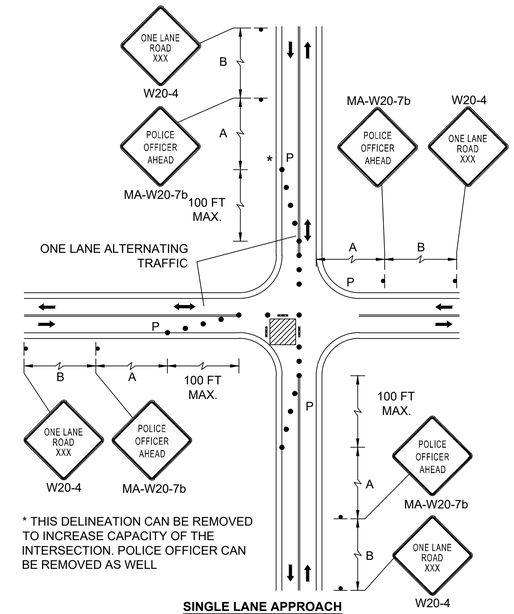
SIGN SPACING MAY NEED TO BE INCREASED IF ADDITIONAL SIGNS ARE REQUIRED PER THE DETAIL/TYPICAL SETUP FIGURES.

BUFFER SPACING	
SPEED* (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED , OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED.



TEMPORARY PATH DETOUR FOR SHARED USE PATH



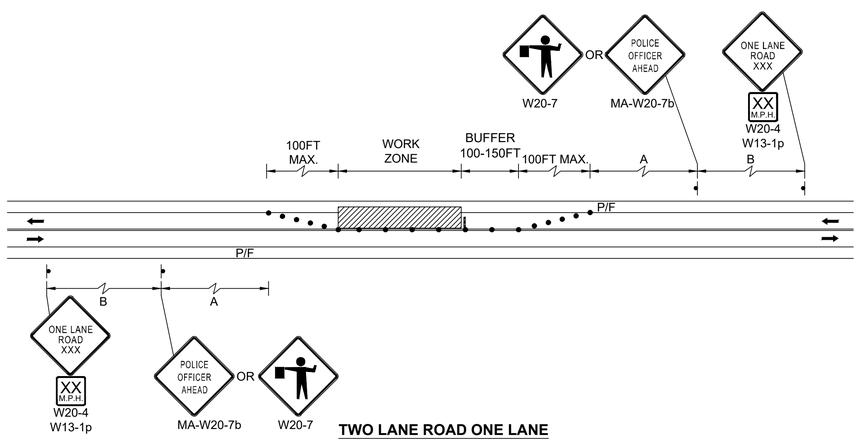
* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL

SINGLE LANE APPROACH ONE QUADRANT CLOSURE
NOT TOSCALE

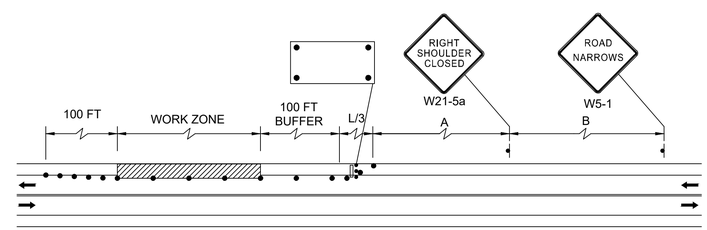
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	54	58
PROJECT FILE NO.	608833		

TEMPORARY TRAFFIC CONTROL PLANS



TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC
NOT TO SCALE



TWO LANE ROAD SHOULDER CLOSED
NOT TO SCALE

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PORTABLE CHANGEABLE MESSAGE SIGNS

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL CONFORM TO THE 2009 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

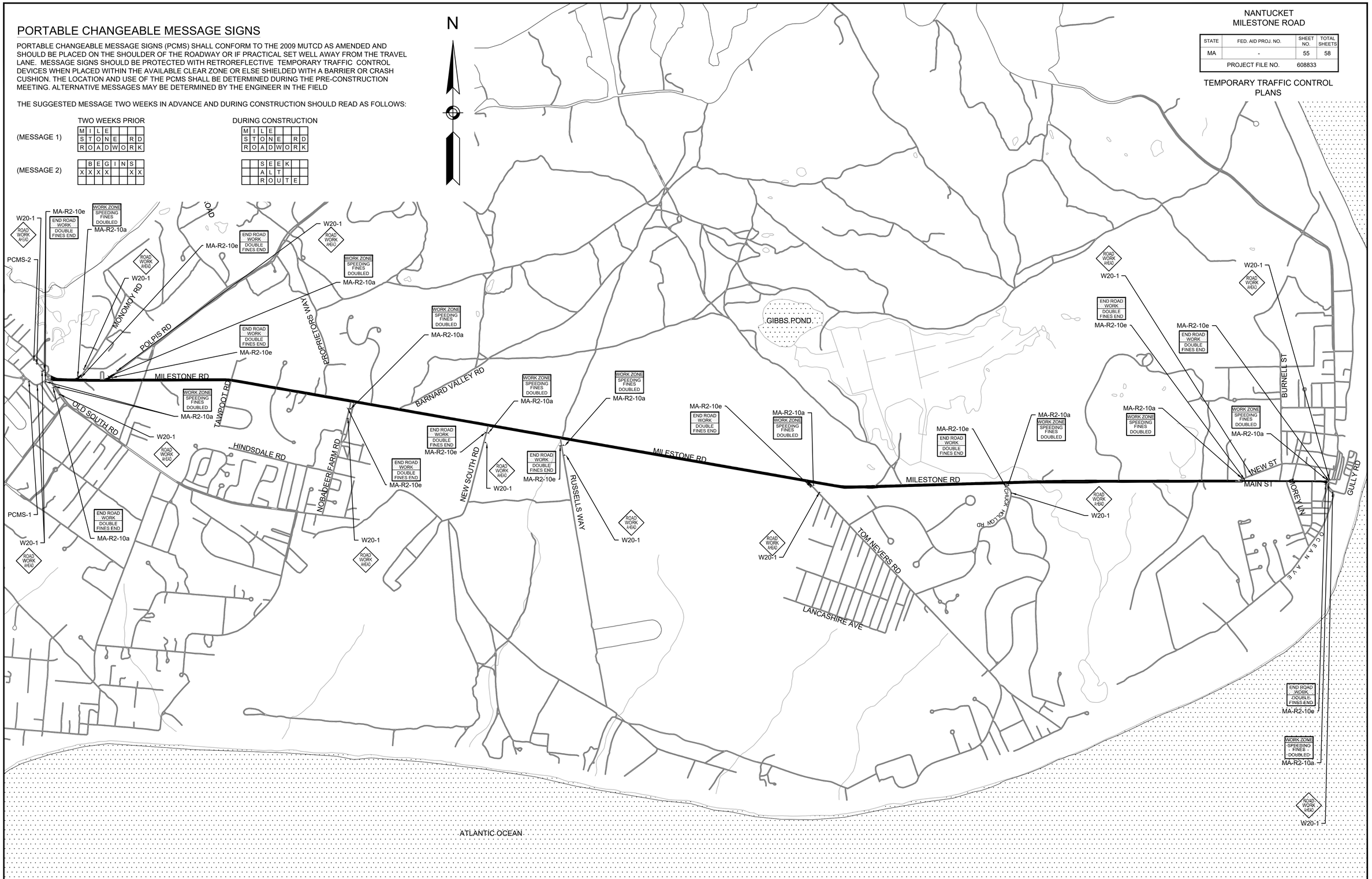
THE SUGGESTED MESSAGE TWO WEEKS IN ADVANCE AND DURING CONSTRUCTION SHOULD READ AS FOLLOWS:

	TWO WEEKS PRIOR	DURING CONSTRUCTION
(MESSAGE 1)	MILE STONE RD ROADWORK	MILE STONE RD ROADWORK
(MESSAGE 2)	BEGINS XXXX XX	SEEK ALT ROUTE

NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	55	58
PROJECT FILE NO.	608833		

TEMPORARY TRAFFIC CONTROL PLANS



ADVANCED WARNING PLAN
NOT TO SCALE

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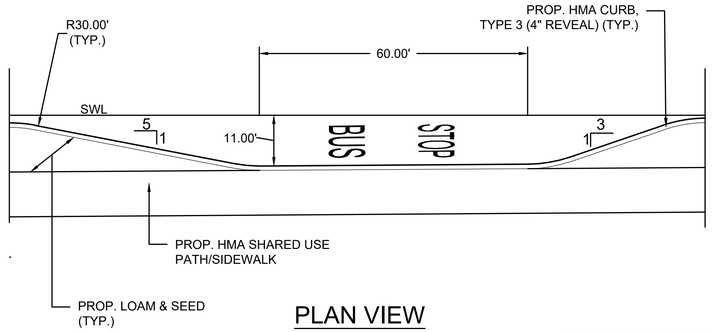
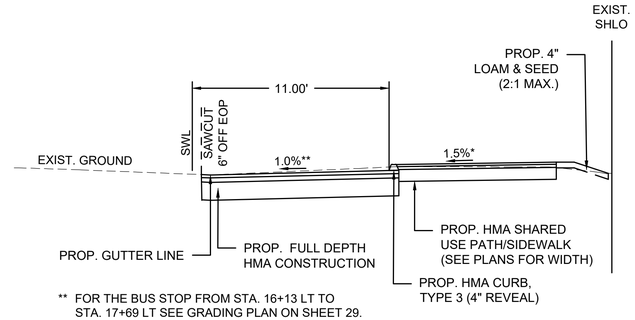
NANTUCKET
MILESTONE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	56	58
PROJECT FILE NO.	608833		

CONSTRUCTION DETAILS



PLAN VIEW



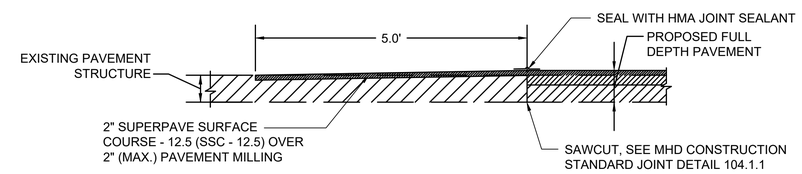
** FOR THE BUS STOP FROM STA. 16+13 LT TO STA. 17+69 LT SEE GRADING PLAN ON SHEET 29.

SECTION VIEW

*TOLERANCE OF CONSTRUCTION SHALL BE ± 0.5%

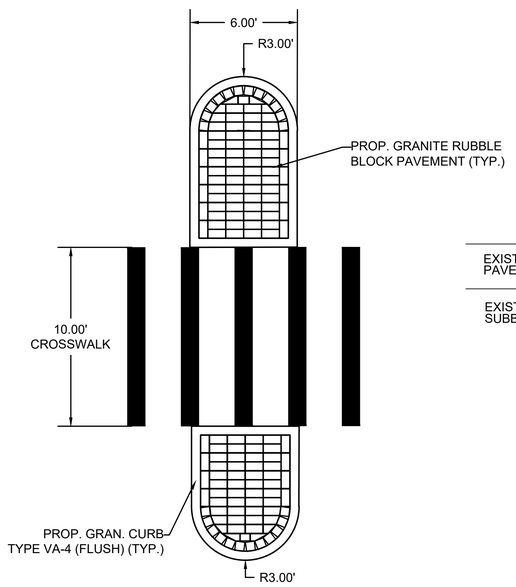
BUS STOP DETAIL

NOT TO SCALE

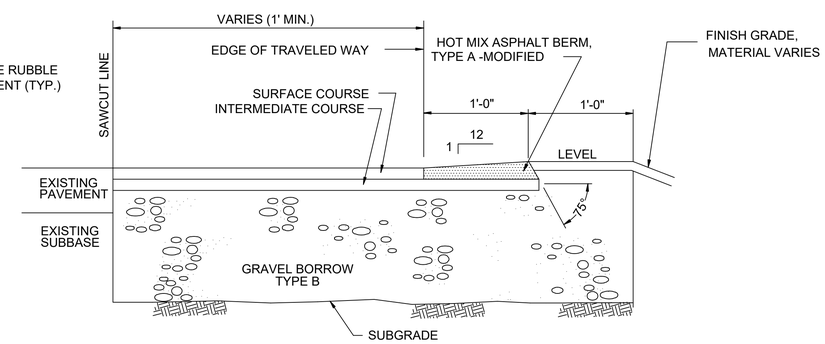


PAVEMENT TRANSITION DETAIL

NOT TO SCALE

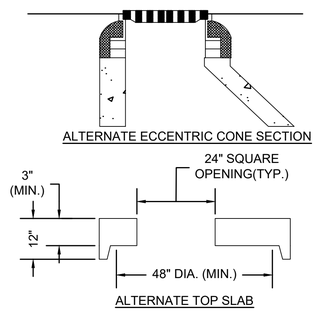


PLAN VIEW



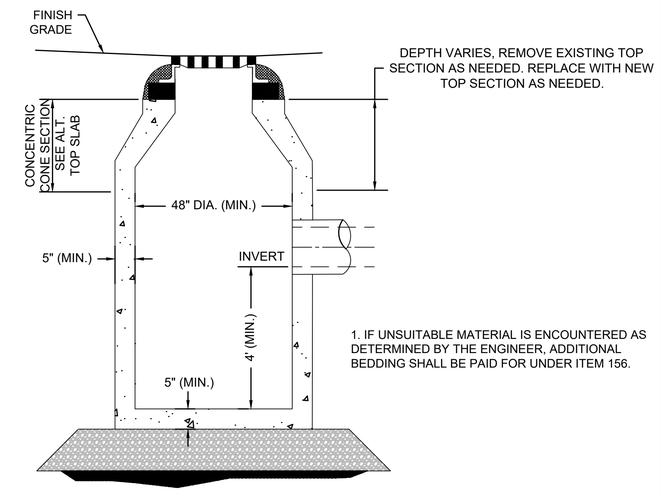
HOT MIX ASPHALT BERM, TYPE "A"-MODIFIED

NOT TO SCALE



NOTES:

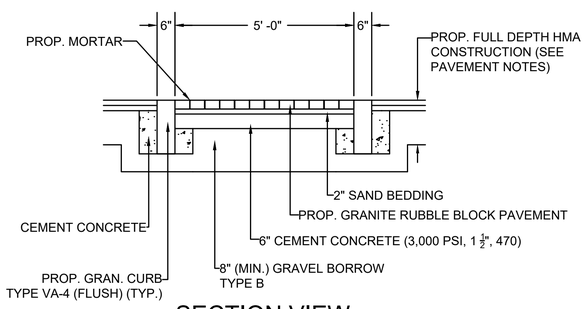
1. BASED ON ACTUAL FIELD CONDITIONS; THE CONTRACTOR SHALL DETERMINE WHICH STYLE OF TOP SECTION SHOULD BE USED.



1. IF UNSUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY THE ENGINEER, ADDITIONAL BEDDING SHALL BE PAID FOR UNDER ITEM 156.

CATCH BASIN

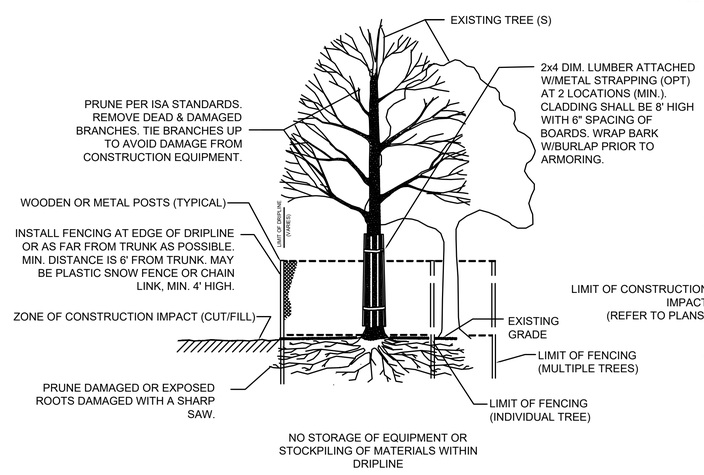
NOT TO SCALE



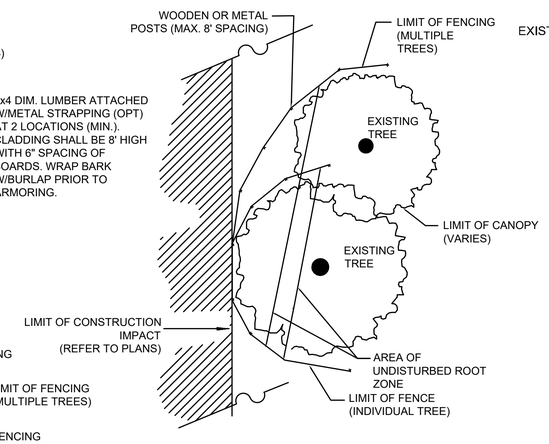
SECTION VIEW

GRANITE RUBBLE BLOCK PAVEMENT DETAIL

NOT TO SCALE



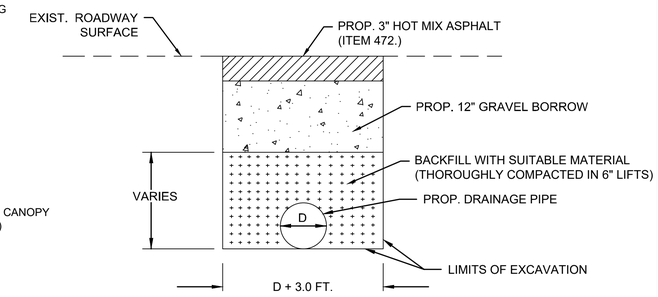
NO STORAGE OF EQUIPMENT OR STOCKPILING OF MATERIALS WITHIN DRIPLINE



PLAN VIEW

TREE PROTECTION-EXISTING TREE(S)

NOT TO SCALE



TEMPORARY PATCH

(IN AREAS OF FULL DEPTH HMA CONSTRUCTION)

1. PLACE TACK COAT BETWEEN ALL HMA COURSES AND SAWCUT SURFACES PRIOR TO PLACING HMA. SEE PAVEMENT NOTES-FULL DEPTH HMA CONSTRUCTION FOR DEPTH OF HMA.

2. IF UNSUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY THE ENGINEER, ADDITIONAL BEDDING SHALL BE PAID FOR UNDER ITEM 156.

DRAINAGE TRENCH DETAIL

NOT TO SCALE

608833_HD (CD).DWG Plotted on 17-May-2018 4:16 PM

NANTUCKET
MILESTONE ROAD

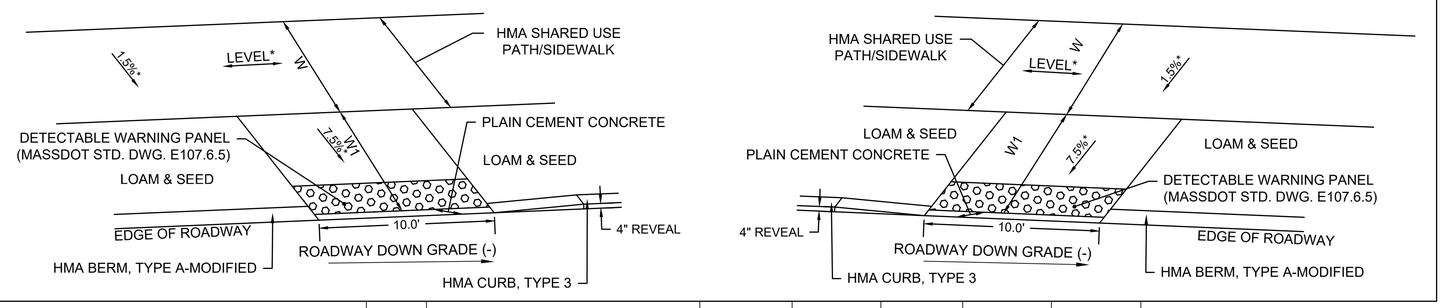
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	57	58
PROJECT FILE NO.	608833		

WHEELCHAIR RAMP DETAILS

NOTES:
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0
- DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE
- ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS

LEGEND

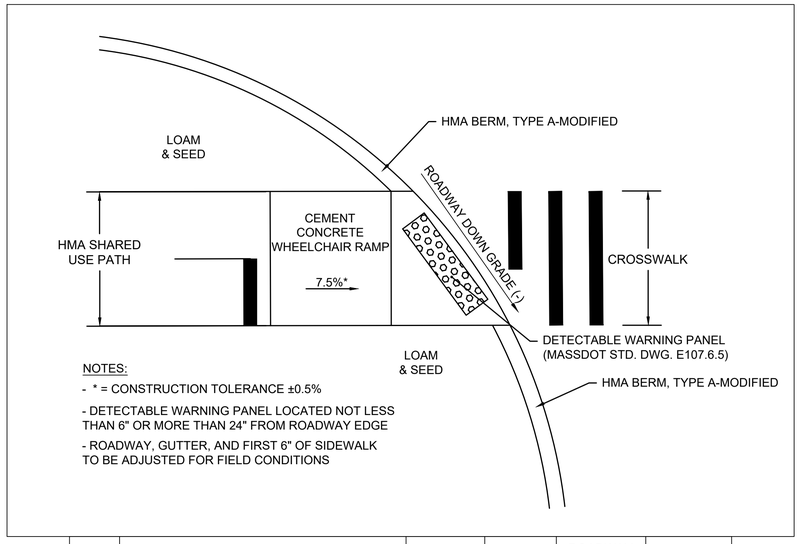
* = TOLERANCE FOR CONSTRUCTION ±0.5%



WCR #	RAMP REFERENCE POINT			LENGTH OF CEM. CONC. RAMP (W1)	WIDTH OF SHARED USE PATH/ SIDEWALK (W)	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE ***	TRANSITION LENGTH
	BASELINE	STATION	OFFSET					
1	MILESTONE ROAD	17+75	11.00' LT	10'-0"	10'-0"	10'-0"	N/A	5'-0"
2	MILESTONE ROAD	17+75	10.27' RT	12'-0"	8'-5"	10'-0"	N/A	N/A
5	MILESTONE ROAD	34+99	11.00' RT	8'-6"	9'-0"	10'-0"	N/A	N/A
6	MILESTONE ROAD	35+06	11.00' LT	8'-0"	11'-0"	10'-0"	N/A	N/A
9	MILESTONE ROAD	59+21	11.00' RT	9'-6"	9'-0"	10'-0"	N/A	5'-0"
10	MILESTONE ROAD	59+21	10.10' LT	10'-11"	8'-0"	10'-0"	N/A	5'-0"
11	MILESTONE ROAD	70+33	11.00' RT	10'-0"	9'-0"	10'-0"	N/A	5'-0"
12	MILESTONE ROAD	70+33	10.01' LT	11'-0"	8'-0"	10'-0"	N/A	5'-0"
17	MILESTONE ROAD	91+74	10.51' RT	10'-4"	10'-0"	10'-0"	N/A	N/A
19	MILESTONE ROAD	96+95	11.00' RT	10'-0"	9'-0"	10'-0"	N/A	5'-0"
20	MILESTONE ROAD	96+95	10.48' LT	10'-9"	6'-0"	10'-0"	N/A	5'-0"
23	MILESTONE ROAD	128+87	11.00' RT	10'-0"	9'-0"	10'-0"	N/A	5'-0"
24	MILESTONE ROAD	128+87	10.72' LT	10'-3"	8'-0"	10'-0"	N/A	5'-0"
25	MILESTONE ROAD	147+40	11.00' RT	10'-0"	9'-0"	10'-0"	N/A	5'-0"
26	MILESTONE ROAD	147+40	10.08' LT	10'-11"	5'-0"	10'-0"	N/A	5'-0"
32	MILESTONE ROAD	217+40	10.58' RT	10'-5"	9'-0"	10'-0"	N/A	5'-0"
35	MILESTONE ROAD	268+19	11.00' RT	9'-10"	9'-0"	10'-0"	N/A	5'-0"
36	MILESTONE ROAD	268+19	10.69' LT	10'-4"	8'-0"	10'-0"	N/A	5'-0"

*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

WHEELCHAIR RAMP WITH LANDSCAPING STRIP



NOTES:
- * = CONSTRUCTION TOLERANCE ±0.5%
- DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE
- ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS

WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF OPENING	ROADWAY GUTTER SLOPE ***	TRANSITION LENGTH
	BASELINE	STATION	OFFSET				
3	MILESTONE ROAD	18+15	26.16' LT	10'-0"	10'-0"	N/A	7'-0"
4	MILESTONE ROAD	18+75	26.18' LT	10'-0"	10'-0"	N/A	7'-0"
7	MILESTONE ROAD	58+51	21.24' RT	9'-0"	9'-0"	N/A	7'-0"
8	MILESTONE ROAD	58+90	23.90' RT	9'-0"	9'-0"	N/A	7'-0"
13	MILESTONE ROAD	70+63	26.00' RT	9'-0"	9'-0"	N/A	7'-0"
14	MILESTONE ROAD	70+94	26.00' RT	9'-0"	9'-0"	N/A	7'-0"
15	MILESTONE ROAD	90+70	25.62' RT	10'-0"	10'-0"	N/A	7'-0"
16	MILESTONE ROAD	91+38	25.70' RT	10'-0"	10'-0"	N/A	7'-0"
21	MILESTONE ROAD	127+90	25.40' RT	9'-0"	9'-0"	N/A	7'-0"
22	MILESTONE ROAD	128+47	24.95' RT	9'-0"	9'-0"	N/A	7'-0"
27	MILESTONE ROAD	147+62	26.15' RT	9'-0"	9'-0"	N/A	7'-0"
28	MILESTONE ROAD	147+90	26.95' RT	9'-0"	9'-0"	N/A	7'-0"
29	MILESTONE ROAD	214+71	25.00' RT	10'-0"	10'-0"	N/A	7'-0"
30	MILESTONE ROAD	215+26	25.87' RT	10'-0"	10'-0"	N/A	7'-0"
33	MILESTONE ROAD	266+83	23.50' RT	9'-0"	9'-0"	N/A	7'-0"
34	MILESTONE ROAD	267+90	23.50' RT	9'-0"	9'-0"	N/A	7'-0"

*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

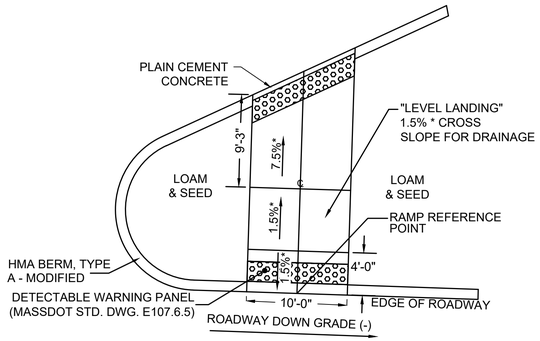
WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL

608833_HD (WCR).DWG Plotted on 17-May-2018 4:16 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	58	58
PROJECT FILE NO.	608833		

WHEELCHAIR RAMP DETAILS

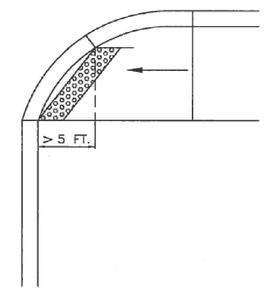
NOTES:
* = CONSTRUCTION TOLERANCE ±0.5%



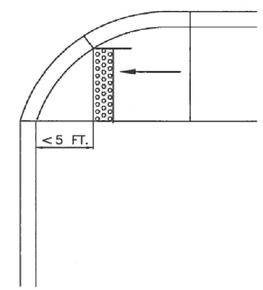
WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE ***	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET				LEFT SIDE	RIGHT SIDE
38	MILESTONE ROAD	330+31	10.67' LT	10'-0"	10'-0"	N/A	N/A	N/A
*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE								

WHEELCHAIR RAMP "CUT THROUGH" WITH DETECTABLE WARNING PANEL

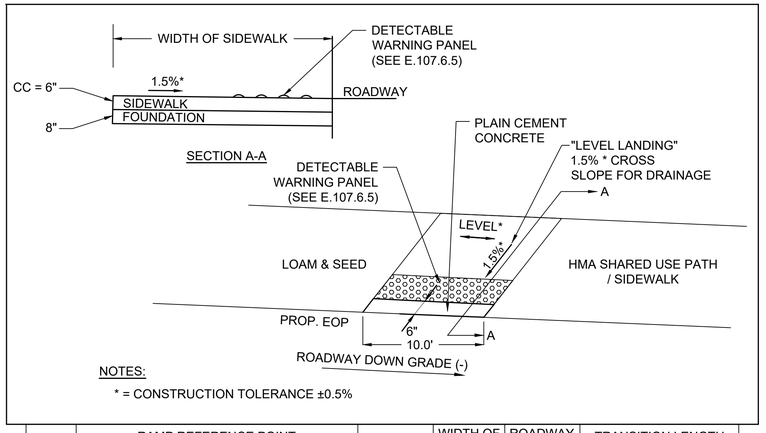
DETECTABLE WARNING PANELS ON WHEELCHAIR RAMPS FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL.



PLACE DETECTABLE WARNING PANEL ON BOTTOM LANDING IF LANDING IS MORE THAN 5 FEET DEEP AT ANY POINT.



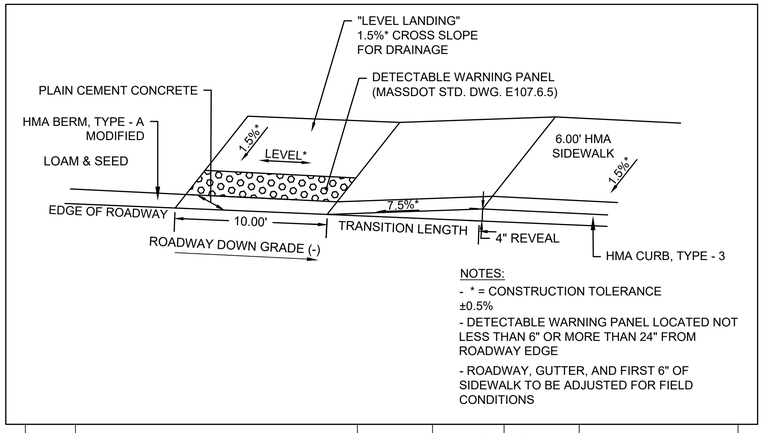
PLACE DETECTABLE WARNING PANEL AT GRADE BREAK IF LEVEL LANDING IS LESS THAN 5 FEET DEEP.



NOTES:
* = CONSTRUCTION TOLERANCE ±0.5%

WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE ***	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET				LEFT SIDE	RIGHT SIDE
18	MILESTONE ROAD	91+74	10.74' LT	N/A	10'-0"	N/A	N/A	N/A
37	MILESTONE ROAD	330+31	11.36' RT	6'-6"	10'-0"	N/A	N/A	N/A
*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE								

LEVEL LANDING WITH DETECTABLE WARNING PANEL



NOTES:
- * = CONSTRUCTION TOLERANCE ±0.5%
- DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE
- ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS

WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE ***	TRANSITION LENGTH
	BASELINE	STATION	OFFSET				
31	MILESTONE ROAD	217+40	10.13' LT	6'-0"	10'-0"	.03%	11'-0" **
** LENGTH OF TRANSITION PROPOSED TO ENCOMPASS FULL WIDTH OF ABUTTING PATH TO BUS SHELTER							
*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE							

WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL

608833_HD (WCR).DWG Plotted on 17-May-2018 4:16 PM