

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

## PLAN AND PROFILE OF ROUTE 140 (MILFORD STREET)

### IN THE UPTON OF UPTON WORCESTER COUNTY PRELIMINARY RIGHT OF WAY PLANS

FEDERAL AID PROJECT NO. --

UPTON  
ROUTE 140 (MILFORD STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	1	8
PROJECT FILE NO.		608456	

PRELIMINARY RIGHT OF WAY  
TITLE SHEET & INDEX

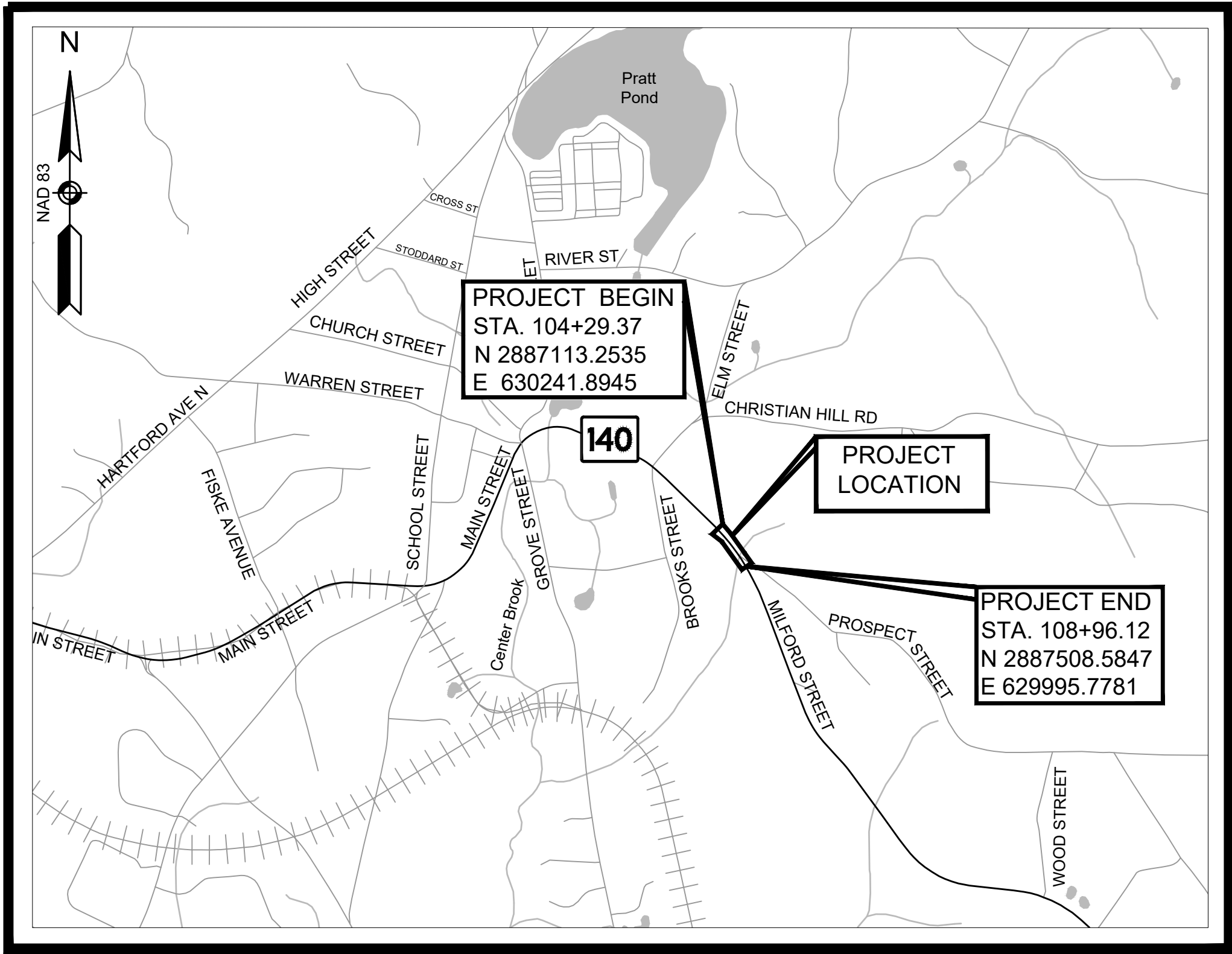
THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

#### INDEX

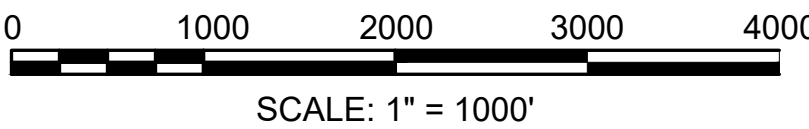
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND, ABBREVIATIONS & PROJECT DESCRIPTION
3	TYPICAL SECTION
4	CRITICAL PROFILE
5	PARCEL SUMMARY SHEET
6	LOCATION PLAN
7 - 8	PROPERTY PLANS

#### BASE MAP NOTES

- THE SURVEY BASE PLAN WAS PREPARED BY BSC GROUP, INC. BETWEEN JUNE 25, 2014 AND JULY 24, 2014 AND SUPPLEMENTED BY BSC GROUP, INC. BETWEEN NOVEMBER 16, 2022 AND NOVEMBER 17, 2022.
- THE MOST RECENT SITE VISIT WAS COMPLETED IN MAY 2024 TO VERIFY THAT THE EXISTING CONDITIONS SHOWN ON THE PLAN ARE THE CURRENT CONDITIONS IN THE FIELD.
- THE LAYOUT AND PROPERTY LINES SUBMITTED ON THE PLAN WERE COMPILED FROM REGISTRY OF DEEDS CERTIFIED BY SEAN EWALD, A PLS IN DIRECT CHARGE AND SUPERVISION OF THE SURVEY BASEMAP.
- LAYOUT LINES ARE RETRACEABLE AND DEPICTED ACCURATELY ON THE RIGHT-OF-WAY PLANS BY AN ON-THE-GROUND SURVEY PERFORMED IN ACCORDANCE WITH 250 CMR 6.01 AND 6.02.
- THE OWNERS HAVE BEEN CHECKED AND UPDATED AS OF JULY, 2024.
- THE PREQUALIFIED SURVEYOR UNDER THE S3 CATEGORY IS PARTICIPATING IN THE DEVELOPMENT OF THE ROW PLANS. BSC GROUP, INC. HAS VERIFIED HIGHWAY LAYOUT BASELINES AND SIDELINES, VERIFIED MUNICIPAL LAYOUTS, VERIFIED THAT ABUTTERS PROPERTY LINES ARE CREATED BASED ON RECORD DEEDS AND PLANS, VERIFIED CURRENT ABUTTERS OWNERSHIP INFORMATION, VERIFIED EXISTING PERMANENT EASEMENTS, AND VERIFIED ANY OTHER ELEMENTS IN THE SURVEY BASE PLAN THAT AFFECTS DISPOSITIONS AND LAND ACQUISITIONS.



LOCUS MAP



LENGTH OF PROJECT = 466.75 FEET = 0.088 MILES

DATE	DESCRIPTION	REV #
07-11-2024	REV2 - 25% SUBMISSION  NEW PARCELS: 3-D-2, 3-D-3, 3-D-4 ALTERED PARCELS: 3-D-1, 3-D-PUE-3, 3-PUE-2, 3-TE-2 DELETED PARCELS: 3-PUE-1, 3-TE-1	2
04-01-2024	REV1 - 25% SUBMISSION  ALTERED PARCELS: 3-D-1, 3-D-PUE-3, 3-TE-2	1
12-11-2023	INITIAL SUBMISSION	0

ROW PLANS PREPARED BY:

**BSC GROUP**  
BUILD | SUPPORT | CONNECT

803 SUMMER STREET  
BOSTON, MASSACHUSETTS 02127  
617-896-4300 | www.bscgroup.com



RECOMMENDED FOR APPROVAL

CHIEF ENGINEER

DATE

GENERAL SYMBOLS			TRAFFIC SYMBOLS			ABBREVIATIONS		
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	GENERAL	UPTON ROUTE 140 (MILFORD STREET)	
		JERSEY BARRIER			CONTROLLER PHASE ACTUATED	AADT	ANNUAL AVERAGE DAILY TRAFFIC	
		CATCH BASIN			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	ABAN	ABANDON	
		CATCH BASIN CURB INLET			WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	ADJ	ADJUST	
		FLAG POLE			VIDEO DETECTION CAMERA	APPROX.	APPROXIMATE	
		GAS PUMP			MICROWAVE DETECTOR	A.C.	ASPHALT CONCRETE	
		MAIL BOX			PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	
		POST SQUARE			EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BIT.	BITUMINOUS	
		POST CIRCULAR			VEHICULAR SIGNAL HEAD	BC	BOTTOM OF CURB	
		WELL			VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	BD.	BOUND	
		ELECTRIC HANDHOLE			FLASHING BEACON	BL	BASELINE	
		FENCE GATE POST			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	BLDG	BUILDING	
		GAS GATE			RAILROAD SIGNAL	BM	BENCHMARK	
		BORING HOLE			SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	BO	BY OTHERS	
		MONITORING WELL			MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	BOS	BOTTOM OF SLOPE	
		TEST PIT			HIGH MAST POLE OR TOWER	BR.	BRIDGE	
		HYDRANT			SIGN AND POST	CB	CATCH BASIN	
		LIGHT POLE			SIGN AND POST (2 POSTS)	CBCI	CATCH BASIN WITH CURB INLET	
		COUNTY BOUND			MAST ARM WITH LUMINAIRE	CC	CEMENT CONCRETE	
		GPS POINT			OPTICAL PRE-EMPTION DETECTOR	CCM	CEMENT CONCRETE MASONRY	
		CABLE MANHOLE			CONTROL CABINET, GROUND MOUNTED	CEM	CEMENT	
		DRAINAGE MANHOLE			LOAD CENTER ASSEMBLY	CI	CURB INLET	
		ELECTRIC MANHOLE			PULL BOX 12"x12" (OR AS NOTED)	CIP	CAST IRON PIPE	
		GAS MANHOLE			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	CLF	CHAIN LINK FENCE	
		MISC MANHOLE	-----			CL	CENTERLINE	
		SEWER MANHOLE	-----			CMP	CORRUGATED METAL PIPE	
		TELEPHONE MANHOLE	-----			CSP	CORRUGATED STEEL PIPE	
		WATER MANHOLE	-----			CO.	COUNTY	
		MASSACHUSETTS HIGHWAY BOUND	-----			CONC	CONCRETE	
		MONUMENT	-----			CONT	CONTINUOUS	
		STONE BOUND	-----			CONST	CONSTRUCTION	
		TOWN OR CITY BOUND	-----			CR GR	CROWN GRADE	
		TRAVERSE OR TRIANGULATION STATION	-----			DHV	DESIGN HOURLY VOLUME	
		TROLLEY POLE OR GUY POLE	-----			DI	DROP INLET	
		TRANSMISSION POLE	-----			DIA	DIAMETER	
		UTILITY POLE W/ FIREBOX	-----			DIP	DUCTILE IRON PIPE	
		UTILITY POLE WITH DOUBLE LIGHT	-----			DW	STEADY DON'T WALK - PORTLAND ORANGE	
		UTILITY POLE W / 1 LIGHT	-----			DWY	DRIVEWAY	
		UTILITY POLE	-----			ELEV (or EL.)	ELEVATION	
		BUSH	-----			EMB	EMBANKMENT	
		TREE	-----			EOP	EDGE OF PAVEMENT	
		STUMP	-----			EXIST (or EX)	EXISTING	
		SWAMP / MARSH	-----			EXC	EXCAVATION	
		WATER GATE	-----			F&C	FRAME AND COVER	
		PARKING METER	-----			F&G	FRAME AND GRATE	
		OVERHEAD CABLE/WIRE	-----			FDN.	FOUNDATION	
		CURBING	-----			FLDSTN	FIELDSTONE	
		CONTOURS (ON-THE-GROUND SURVEY DATA)	-----			GAR	GARAGE	
		CONTOURS (PHOTOGRAMMETRIC DATA)	-----			GD	GROUND	
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	-----			GG	GAS GATE	
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	-----			GI	GUTTER INLET	
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)	-----			GIP	GALVANIZED IRON PIPE	
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	-----			GRAN	GRANITE	
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	-----			GRAV	GRAVEL	
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)	-----			GRD	GUARD	
		BALANCED STONE WALL	-----			HDW	HEADWALL	
		GUARD RAIL - STEEL POSTS	-----			HMA	HOT MIX ASPHALT	
		GUARD RAIL - WOOD POSTS	-----			HOR	HORIZONTAL	
		GUARD RAIL - DOUBLE FACE - STEEL POSTS	-----			HYD	HYDRANT	
		GUARD RAIL - DOUBLE FACE - WOOD POSTS	-----			INV	INVERT	
		CHAIN LINK OR METAL FENCE	-----			JCT	JUNCTION	
		WOOD FENCE	-----			L	LENGTH OF CURVE	
		HAY BALES/SILT FENCE	-----			LB	LEACH BASIN	
		TREE LINE	-----			LP	LIGHT POLE	
		SAWCUT LINE	-----			LT	LEFT	
		TOP OR BOTTOM OF SLOPE	-----			MAX	MAXIMUM	
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY	-----			MB	MAILBOX	
		BANK OF RIVER OR STREAM	-----			MH	MANHOLE	
		BORDER OF WETLAND	-----			MHB	MASSACHUSETTS HIGHWAY BOUND	
		100 FT WETLAND BUFFER	-----			MIN	MINIMUM	
		200 FT RIVERFRONT BUFFER	-----			NIC	NOT IN CONTRACT	
		STATE HIGHWAY LAYOUT	-----			NO.	NUMBER	
		TOWN OR CITY LAYOUT	-----			PC	POINT OF CURVATURE	
		COUNTY LAYOUT	-----			PCC	POINT OF COMPOUND CURVATURE	
		RAILROAD SIDELINE	-----			P.G.L.	PROFILE GRADE LINE	
		TOWN OR CITY BOUNDARY LINE	-----			PI	POINT OF INTERSECTION	
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE	-----			POC	POINT ON CURVE	
		EASEMENT	-----			POT	POINT ON TANGENT	
			-----			PRC	POINT OF REVERSE CURVATURE	
			-----			PROJ	PROJECT	
			-----			PROP	PROPOSED	
			-----			PSB	PLANTABLE SOIL BORROW	
			-----			PT	POINT OF TANGENCY	
			-----			PVC	POINT OF VERTICAL CURVATURE	
			-----			PVI	POINT OF VERTICAL INTERSECTION	
			-----			PVT	POINT OF VERTICAL TANGENCY	
			-----			PVMT	PAVEMENT	
			-----			PWW	PAVED WATER WAY	

PRELIMINARY RIGHT OF WAY LEGEND, ABBREVIATIONS & PROJECT DESCRIPTION			
GENERAL			
R	RADIUS OF CURVATURE		
R&D	REMOVE AND DISPOSE		
RCP	REINFORCED CONCRETE PIPE		
RD	ROAD		
RDWY	ROADWAY		
REM	REMOVE		
RET	RETAIN		
RET WALL	RETAINING WALL		
ROW	RIGHT OF WAY		
RR	RAILROAD		
R&R	REMOVE AND RESET		
R&S	REMOVE AND STACK		
RT	RIGHT		
SB	STONE BOUND		
SHLD	SHOULDER		
SMH	SEWER MANHOLE		
ST	STREET		
STA	STATION		
STKF	STOCKADE FENCE		
SSD	STOPPING SIGHT DISTANCE		
SHLO	STATE HIGHWAY LAYOUT LINE		
SW	SIDEWALK		
T	TANGENT DISTANCE OF CURVE/TRUCK %		
TAN	TANGENT		
TEMP	TEMPORARY		
TC	TOP OF CURB		
TOS	TOP OF SLOPE		
TYP	TYPICAL		
UP	UTILITY POLE		
VAR	VARIES		
VERT	VERTICAL		
VC	VERTICAL CURVE		
WCR	WHEEL CHAIR RAMP		
WG	WATER GATE		
WIP	WROUGHT IRON PIPE		
WM	WATER METER/WATER MAIN		
X-SECT	CROSS SECTION		

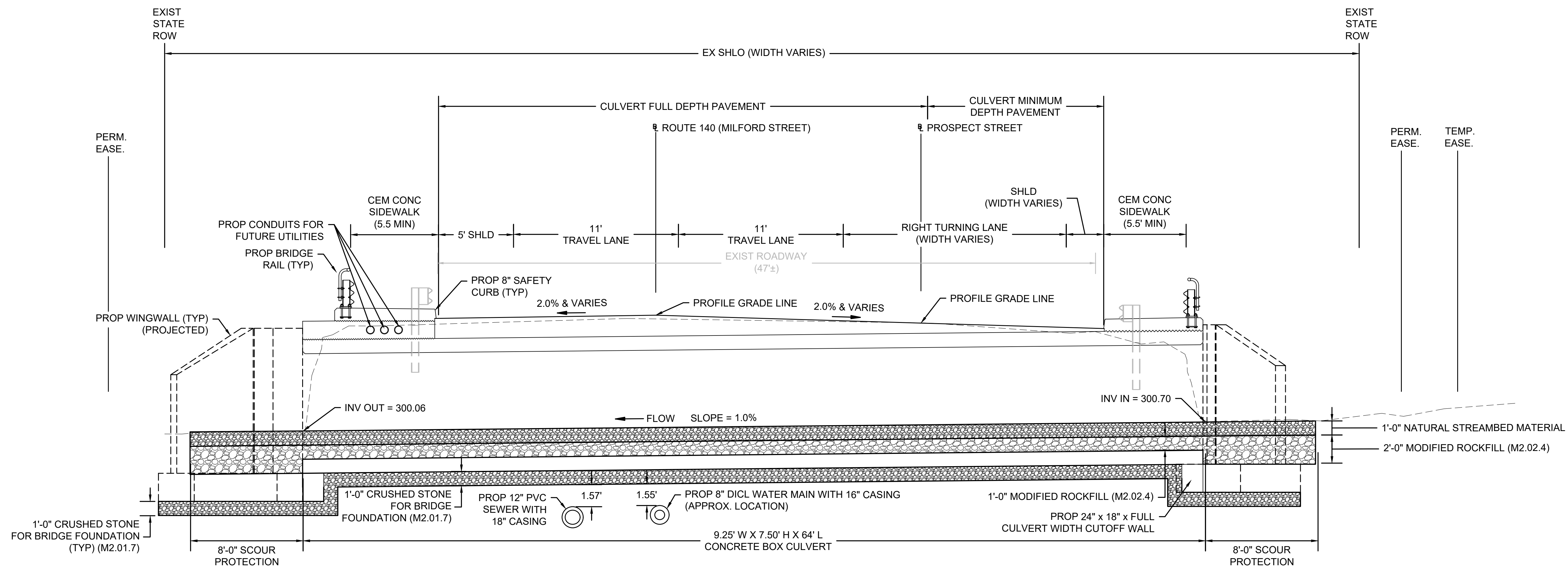
PAVEMENT MARKINGS SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

PROJECT DESCRIPTION:	
THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) IS PROPOSING A CULVERT REPLACEMENT ALONG A PORTION OF MILFORD STREET (ROUTE 140) AND AT A NEARBY INTERSECTION. A TEMPORARY 24" CULVERT BESIDE THE NEW CONCRETE BOX CULVERT WILL BE INSTALLED. GUARDRAIL WILL BE REMOVED AND RESET DURING CONSTRUCTION. RECONSTRUCTION OF THE ROADWAY WILL INCLUDE SECTIONS OF FULL DEPTH RECONSTRUCTION IN THE VICINITY OF THE CULVERT AND MILL AND OVERLAY ON THE ROADWAY APPROACHES.	

UPTON  
ROUTE 140 (MILFORD STREET)

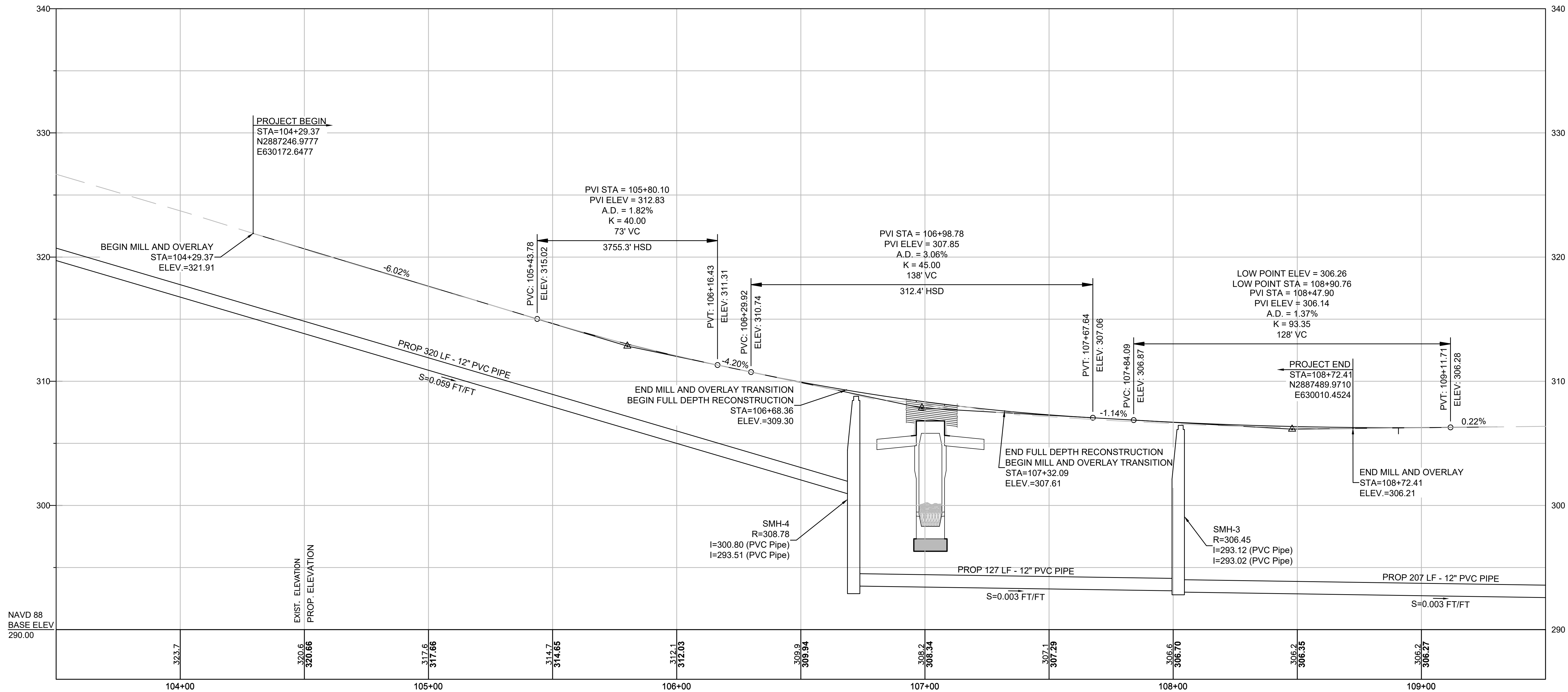
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	3	8
PROJECT FILE NO.		608456	

PRELIMINARY RIGHT OF WAY  
TYPICAL SECTION



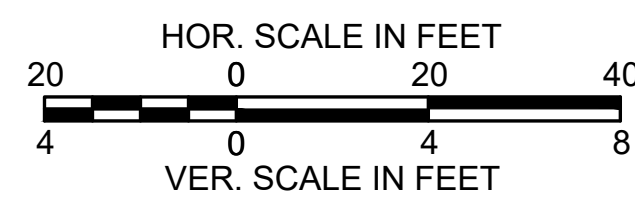
TYPICAL SECTION - CULVERT CROSSING ON  
MILFORD STREET (ROUTE 140)

SCALE: 1"=4'



MILFORD STREET PROFILE

1"=20' HORIZ.  
1"=4' VERT.



PROJECT TOTALS			
AFFECTED PROPERTIES	FEE TAKINGS	PERMANENT EASEMENTS	TEMPORARY EASEMENTS
6	0	7	4

UPTON  
ROUTE 140 (MILFORD STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	5	8

PROJECT FILE NO. 608456

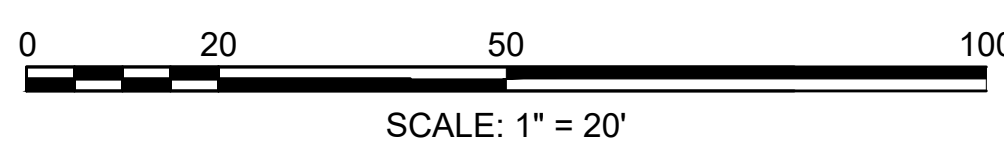
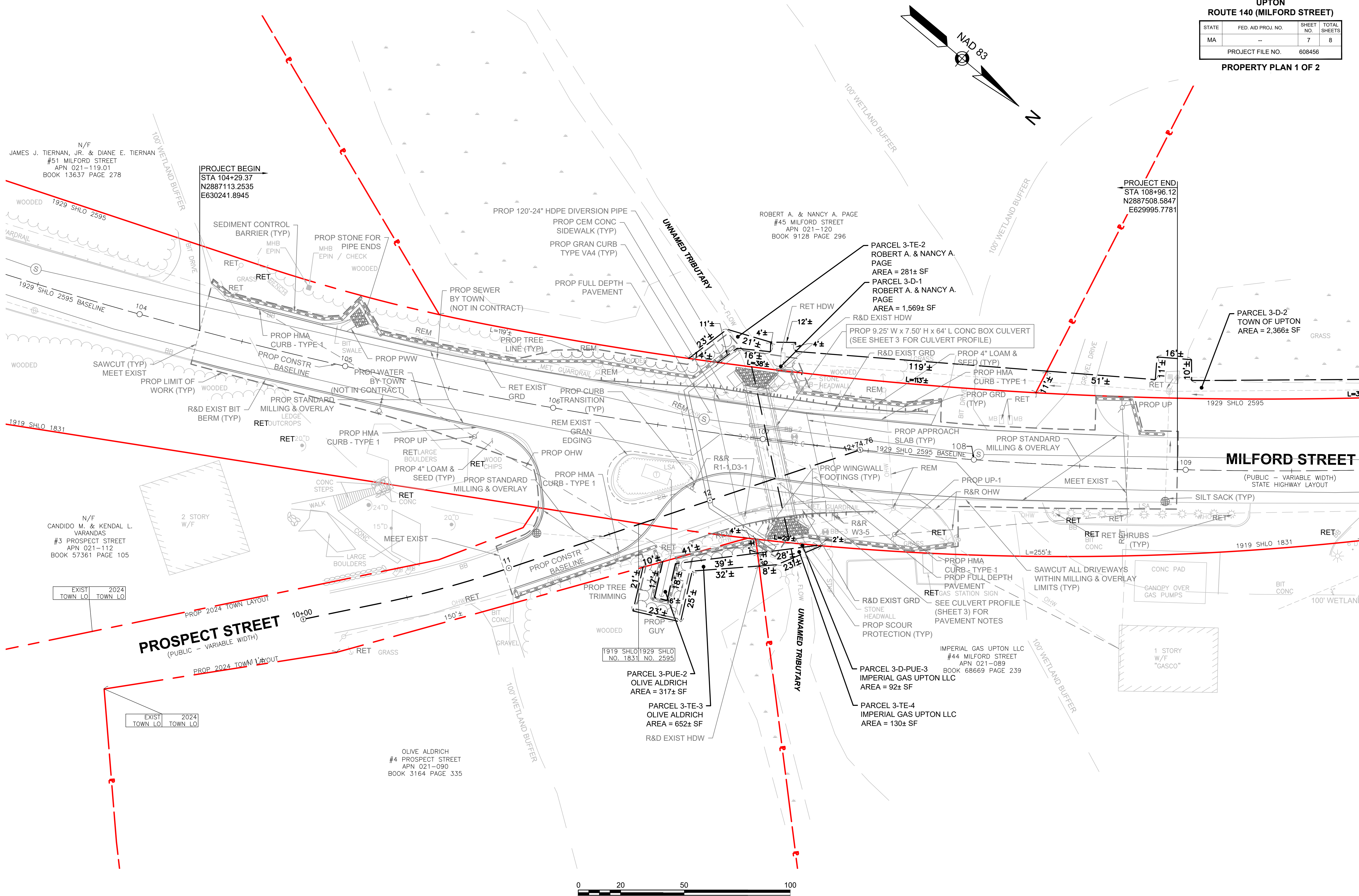
PRELIMINARY RIGHT OF WAY  
PARCEL SUMMARY SHEET

PARCEL NO.	PLAN SHEET NO.	TITLEHOLDER	TITLE REFERENCE				ROW PARCEL		PROPERTY TOTALS (S.F.)			FRONTAGE ON ROW PLAN (FT)	PROPERTY ADDRESS	ZONING DISTRICT	REMARKS	LAND RESTRICTIONS FROM THE DEED
			DEED BOOK	DEED PAGE	LCC NO.	CERT. NO.	INTEREST ACQUIRED	AREA (S.F. +/-)	TOTAL TAKEN	REMAINING	TOTAL PROPERTY AREA (RECORD)					
3-D-1	7	ROBERT A. & NANCY A. PAGE	9128	296			PERM	1,569			243,446	284	45 MILFORD STREET	GB	SCOUR PROTECTION, EROSION CONTROLS, EXISTING HEADWALL AND UNDERGROUND DRAINAGE	
3-TE-2	7	ROBERT A. & NANCY A. PAGE	9128	296			TEMP	281							TREE TRIMMING, INSTALLATION OF EROSION CONTROLS, DEWATERING	
3-PUE-2	7	OLIVE ALDRICH	3164	335			PERM	317			267,013	316	4 PROSPECT STREET	SRC	UTILITY POLE GUY, OVERHEAD WIRE OFFSET	
3-TE-3	7	OLIVE ALDRICH	3164	335			TEMP	652							TREE TRIMMING, SEDIMENT CONTROL BARRIER	
3-D-PUE-3	7	IMPERIAL GAS UPTON LLC	68669	239			PERM	92			86,602	301	44 MILFORD STREET	SRC	LONG TERM MAINTENANCE OF DRAINAGE STRUCTURE, OVERHEAD WIRE OFFSET	
3-TE-4	7	IMPERIAL GAS UPTON LLC	68669	239			TEMP	130							TREE TRIMMING, INSTALLATION OF EROSION CONTROLS, DEWATERING	
3-D-2	7.8	TOWN OF UPTON	51203	179			PERM	2,366			93,654	422	41 MILFORD STREET	GB	EXISTING DRAINAGE SYSTEM FOR ROUTE 140 INCLUDING STRUCTURES AND UNDERGROUND PIPE	
3-D-3	8	HOLLIE BROCHU	55900	307			PERM				32,476	68	38 MILFORD STREET	SRC	EXISTING DRAINAGE STRUCTURE FOR ROUTE 140	
3-D-4	8	ANN M. FARINA-SUAZO	17583	28			PERM				43,071	86	36 MILFORD STREET	SRC	EXISTING DRAINAGE STRUCTURE FOR ROUTE 140	









CONTINUED ON  
SHEET NO. 8



CONTINUED ON  
SHEET NO. 7

ROBERT A. & NANCY A. PAGE  
#45 MILFORD STREET  
APN 021-120  
BOOK 9128 PAGE 296

PARCEL 3-TE-2  
ROBERT A. & NANCY A. PAGE  
AREA = 281± SF  
PARCEL 3-D-1  
ROBERT A. & NANCY A. PAGE  
AREA = 1,569± SF

PROP 9.25' W x 7.50' H x 64' L CONC BOX CULVERT  
(SEE SHEET 3 FOR CULVERT PROFILE)

R&D EXIST GRD  
PROP 4" LOAM & SEED (TYP)  
PROP HMA CURB - TYPE 1  
PROP GRD (TYP)

RET HDW  
R&D EXIST HDW  
RET

WOODED  
STONE  
HEADWALL  
REM

PROP APPROACH SLAB (TYP)  
1929 SHLO 2595 BASELINE

PROP WINGWALL FOOTINGS (TYP)  
REM

R&R  
BB-3 W3-5  
RET

R&R  
W3-5  
RET

PROP HMA CURB - TYPE 1  
PROP FULL DEPTH PAVEMENT  
RET

R&D EXIST GRD  
STONE HEADWALL  
PROP SCOUR PROTECTION (TYP)

RET GAS STATION SIGN  
SEE CULVERT PROFILE (SHEET 3) FOR PAVEMENT NOTES

IMPERIAL GAS UPTON LLC  
#44 MILFORD STREET  
APN 021-089  
BOOK 68669 PAGE 239

PARCEL 3-D-PUE-3  
IMPERIAL GAS UPTON LLC  
AREA = 92± SF

PARCEL 3-TE-4  
IMPERIAL GAS UPTON LLC  
AREA = 130± SF

100' WETLAND BUFFER

UNNAMED TRIBUTARY

100' WETLAND BUFFER

PROJECT END  
STA 108+96.12  
N2887508.5847  
E629995.7781

PARCEL 3-D-2  
TOWN OF UPTON  
AREA = 2,366± SF

TOWN OF UPTON (TAX TAKING)  
#41 MILFORD STREET  
APN 021-121  
BOOK 51203 PAGE 179

WORK PROPOSED BY TOWN  
NOT IN CONTRACT

MILFORD STREET

(PUBLIC - VARIABLE WIDTH)  
STATE HIGHWAY LAYOUT

SILT SACK (TYP)

RET RET SHRUBS (TYP)

RET RET SHRUBS (TYP)

RET RET SHRUBS (TYP)

RET RET SHRUBS (TYP)

RET RET SHRUBS (TYP)

RET RET SHRUBS (TYP)

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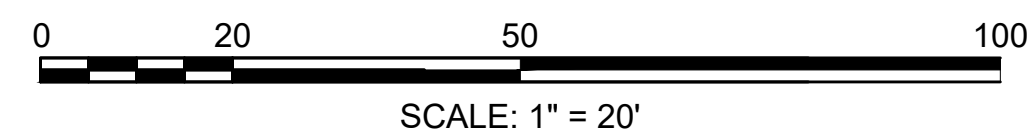
RET RET SHRUBS (TYP)

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ANN M. FARINA-SUAZO  
#36 MILFORD STREET  
APN 021-086  
BOOK 17583 PAGE 28

HOLLIE BROCHU  
#38 MILFORD STREET  
APN 021-087  
BOOK 55900 PAGE 307

N/F  
147 MILFORD ST, LLC  
#40 MILFORD STREET  
APN 021-088  
BOOK 43774 PAGE 285