

# 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. --

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.

UPTON ROUTE 140 (MILFORD STREET)		
STATE	FED. AID PROJ. NO.	SCHEET NO. TOTAL SHEETS
MA	--	1 8
PROJECT FILE NO. 608456		

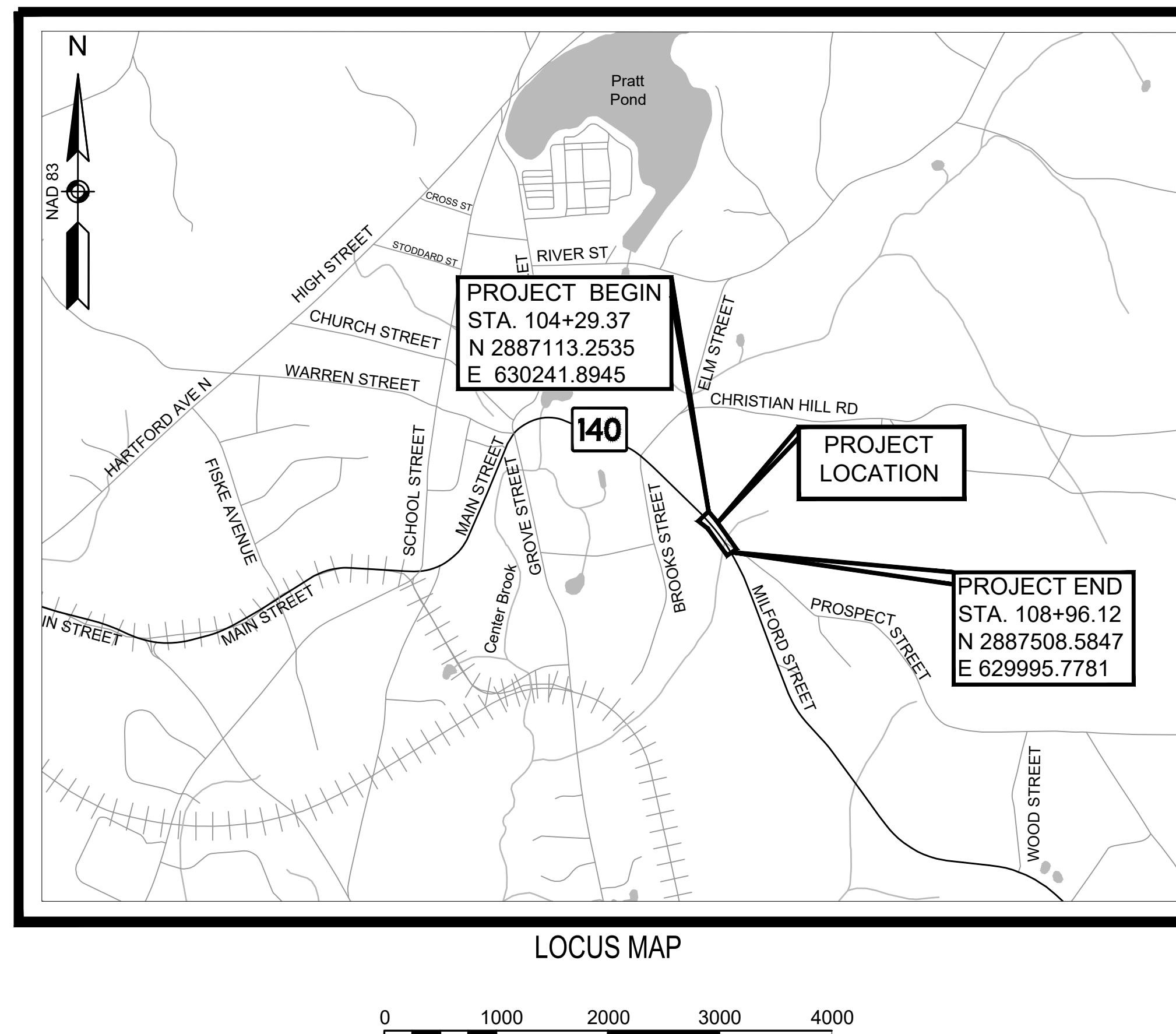
PRELIMINARY RIGHT OF WAY  
TITLE SHEET & INDEX

608456\_RWY(TITLESHEET).DWG  
Plotted on 11-Jul-2024 1:43 PM

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

### BASE MAP NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. THE OWNERS HAVE BEEN CHECKED AND UPDATED AS OF JULY, 2024.
6. 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.



LENGTH OF PROJECT = 466.75 FEET = 0.088 MILES

ROW PLANS PREPARED BY:  
**BSC GROUP**  
BUILD | SUPPORT | CONNECT  
803 SUMMER STREET  
BOSTON, MASSACHUSETTS 02127  
617-896-4300 | [www.bscgroup.com](http://www.bscgroup.com)

**massDOT**  
Massachusetts Department of Transportation  
Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

## 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	GPS POINT
C	C	CABLE MANHOLE
D	D	DRAINAGE MANHOLE
E	E	ELECTRIC MANHOLE
G	G	GAS MANHOLE
M	M	MISC MANHOLE
S	S	SEWER MANHOLE
T	T	TELEPHONE MANHOLE
W	W	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
		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
		BUSH
		TREE
		STUMP
WG	WG	SWAMP / MARSH
PM	PM	WATER GATE
		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
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		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

## TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
	1	CONTROLLER PHASE ACTUATED
	2	TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
	3	WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
	4	VIDEO DETECTION CAMERA
	5	MICROWAVE DETECTOR
	6	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	7	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
	8	VEHICULAR SIGNAL HEAD
	9	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
	10	FLASHING BEACON
	11	PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
	12	RAILROAD SIGNAL
	13	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	14	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
	15	HIGH MAST POLE OR TOWER
	16	SIGN AND POST
	17	SIGN AND POST (2 POSTS)
	18	MAST ARM WITH LUMINAIRE
	19	OPTICAL PRE-EMPTION DETECTOR
	20	CONTROL CABINET, GROUND MOUNTED
	21	CONTROL CABINET, POLE MOUNTED
	22	FLASHING BEACON CONTROL AND METER PEDESTAL
	23	LOAD CENTER ASSEMBLY
	24	PULL BOX 12"x12" (OR AS NOTED)
	25	ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
	26	TRAFFIC SIGNAL CONDUIT

## ABBREVIATIONS

GENERAL	DESCRIPTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
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

UPTON ROUTE 140 (MILFORD STREET)			
STATE	FED. AID PROJ. NO.	HEET NO.	TOTAL SHEETS
MA	--	2	8

PROJECT FILE NO. 608456

PRELIMINARY RIGHT OF WAY LEGEND, ABBREVIATIONS & PROJECT DESCRIPTION			
-------------------------------------------------------------------------	--	--	--

## ABBREVIATIONS (cont.)

GENERAL	DESCRIPTION
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
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VARIES	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

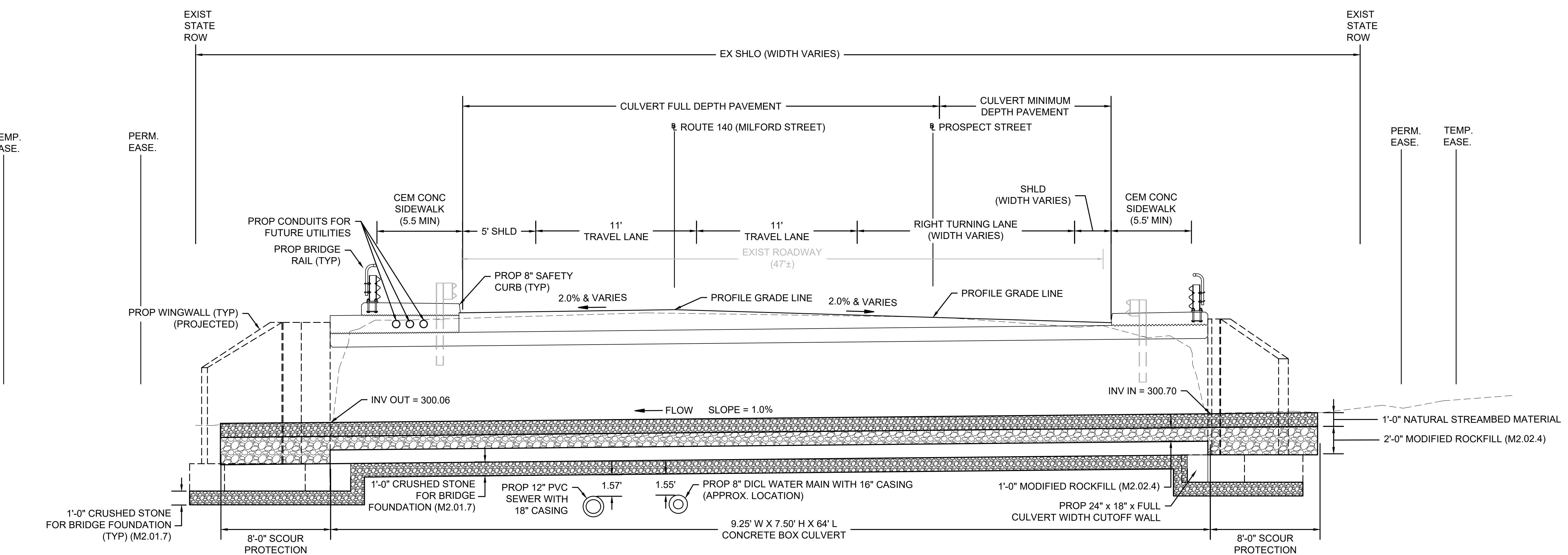
## PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
↑	↑	PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
SL	SL	STOP LINE
CW	CW	CROSSWALK
SWL	SWL	SOLID WHITE LINE
SYL	SYL	SOLID YELLOW LINE
BWL	BWL	BROKEN WHITE LINE
BYL	BYL	BROKEN YELLOW LINE
DWL	DWL	DOTTED WHITE LINE
DYL	DYL	DOTTED YELLOW LINE
DWLex	DWLex	DOTTED WHITE LINE EXTENSION
DYLex	DYLex	DOTTED YELLOW LINE EXTENSION
DBWL	DBWL	DOUBLE WHITE LINE
DBYL	DBYL	DOUBLE YELLOW LINE

<

UPTON ROUTE 140 (MILFORD STREET)		
STATE	FED. AID PROJ. NO.	HEET 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)

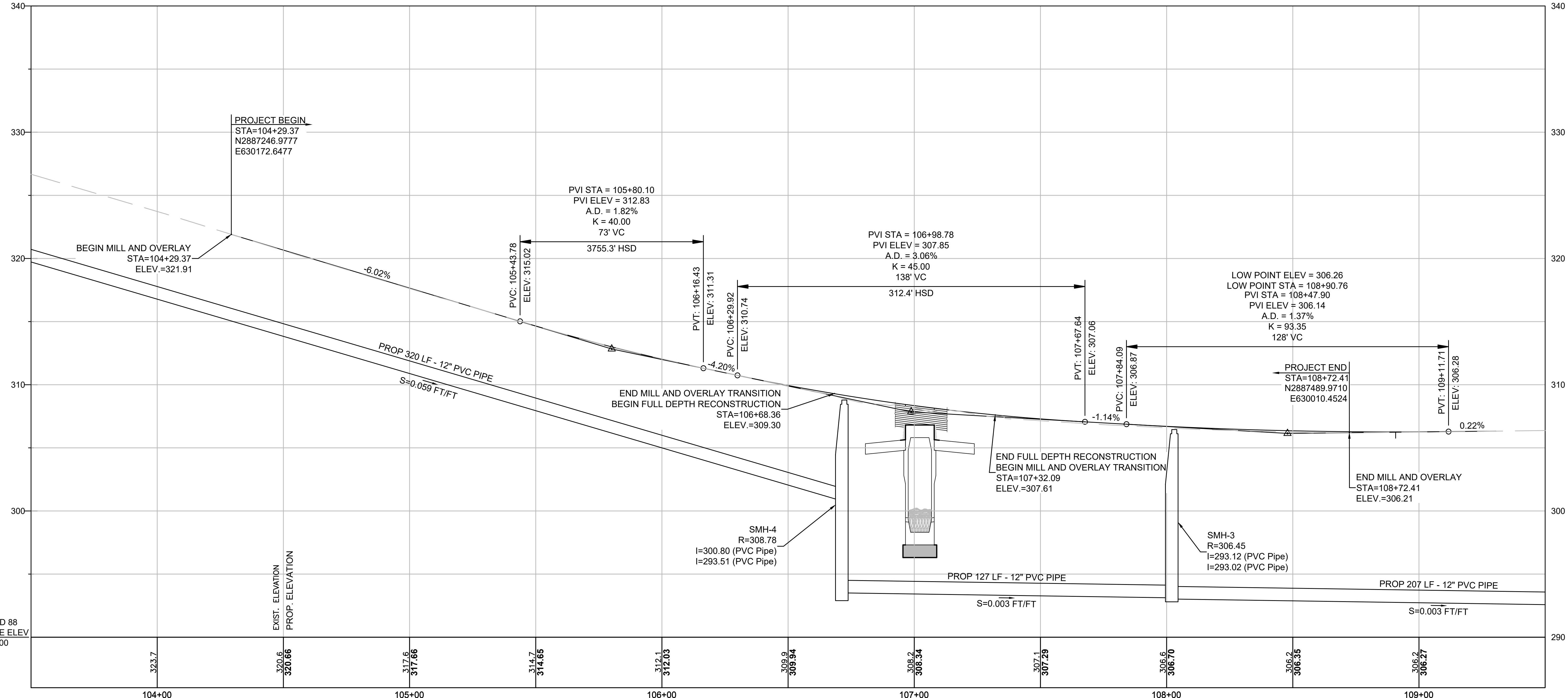
SCALE: 1"=4"

<b>UPTON ROUTE 140 (MILFORD STREET)</b>			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	4	8
PROJECT FILE NO.		608456	
<b>PRELIMINARY RIGHT OF WAY CRITICAL PROFILE</b>			

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
MA	--	4	8
PROJECT FILE NO.		608456	

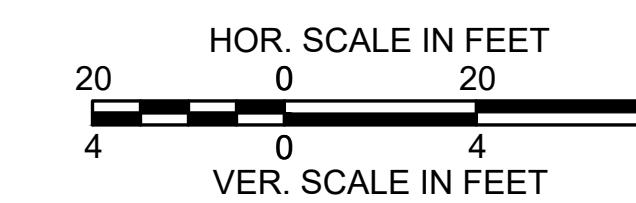
## **PRELIMINARY RIGHT OF WAY CRITICAL PROFILE**

608456\_RW4(PROFILE).DWG Plotted on 11-Jul-2024 1:43 PM



# MILFORD STREET PROFILE

1"=20' HORIZONTAL  
1"=4' VERTICAL



**UPTON  
ROUTE 140 (MILFORD STREET)**

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
MA	--	5	8
PROJECT FILE NO.		608456	

# **PRELIMINARY RIGHT OF WAY PARCEL SUMMARY SHEET**

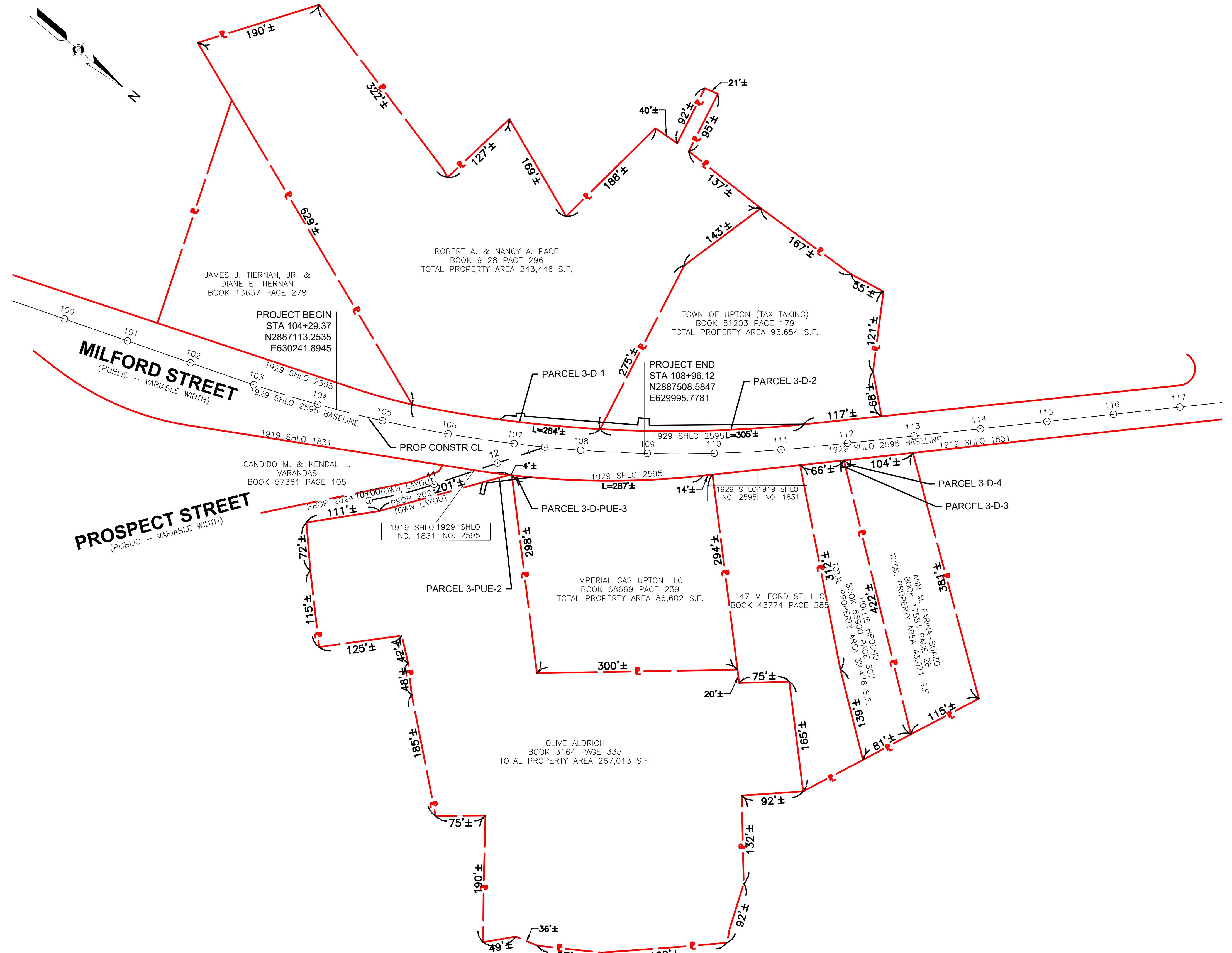
608456\_RW5(PARCELSUMMARY).DWG Plotted on 11-Jul-2024 1:43 PM

**UPTON  
ROUTE 140 (MILFORD STREET)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	6	8
PROJECT FILE NO.		608456	

## **PRELIMINARY RIGHT OF WAY LOCATION PLAN**

608456\_RW6(LOCATIONPLAN).DWG Plotted on 11-Jul-2024 1:43 PM



0 80 200 300

SCALE: 1" = 80'



**UPTON  
ROUTE 140 (MILFORD STREET)**

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

## PROPERTY PLAN 2 OF 2

006456\_RW(FRUPERTYPLAN).DWG Plotted on 11-JUL-2024 1:44 PM

CONTINUED ON  
SHEET NO. 7

