

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	106
PROJECT FILE NO.		605020	

TITLE SHEET AND INDEX

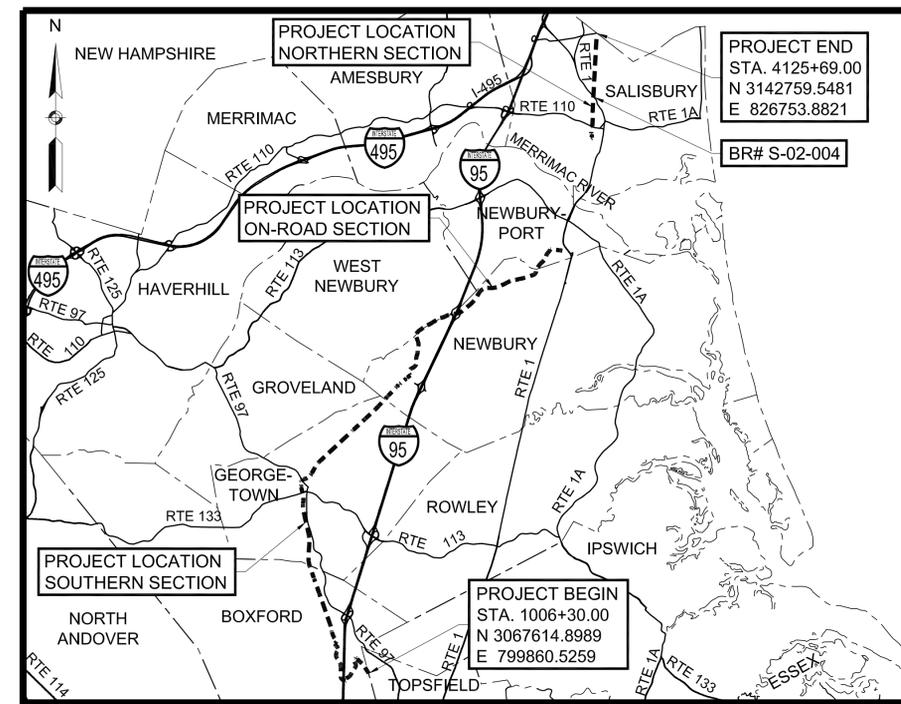
PLAN AND PROFILE OF  
**BORDER TO BOSTON TRAIL**  
IN THE TOWNS OF  
**BOXFORD, GEORGETOWN,  
NEWBURY, AND SALISBURY**  
**ESSEX COUNTY**

FEDERAL AID PROJECT NO.

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED FEBRUARY 25, 2010, THE 2010 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY), THE 2003 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.

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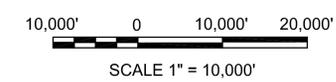
**INDEX**



**DESIGN DESIGNATION (BORDER TO BOSTON TRAIL)**

DESIGN SPEED	20 MPH
ADT (YYYY)	N/A
ADT (YYYY)	N/A
K	N/A
D	N/A
T (PEAK HOUR)	N/A
T (AVERAGE DAY)	N/A
DHV	N/A
DDHV	N/A
FUNCTIONAL CLASSIFICATION	N/A

AUGUST 2012  
**25% SUBMISSION**



LENGTH OF PROJECT = 88,346.49 FEET = 16.732 MILES

DATE	DESCRIPTION	REV #

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

\_\_\_\_\_  
DIVISION ADMINISTRATOR      DATE



RECOMMENDED FOR APPROVAL

\_\_\_\_\_  
CHIEF ENGINEER      DATE

APPROVED

\_\_\_\_\_  
HIGHWAY ADMINISTRATOR      DATE

# LEGEND

## GENERAL SYMBOLS

EXISTING PROPOSED

		JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER
		CATCH BASIN
		CURB INLET
		BUOY
		FLAG POLE
		GAS PUMP
		DROP INLET
		MAIL BOX
		GRANITE POST
		PLANTER
		POST
		TELEPHONE BOOTH
		VAULT
		VALVE
		WELL
		ELECTRIC MANHOLE (HANDHOLE)
		GATE POST
		FLOW LINE
		BORING HOLE
		TEST PIT
		CONCRETE HEADWALL
		HANDHOLE
		STONE HEADWALL
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		OTHER MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MHD BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		IRON PIPE MONUMENT
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE / WIRE
		TRANS. POLE
		UP WITH FIREBOX
		POLE WITH DOUBLE LIGHT
		UP WITH 1 LIGHT
		UTILITY POLE
		BUSH / SHRUB
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		FIRE ALARM BOX
		PARKING METER
		ELECTRICAL GROUND
		GATE VALVE
		RIP RAP
		OVERHEAD WIRE / CABLE
		DIRECT BURIAL CABLE
		CURBING
		CONTOURS
		DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		ELECTRIC DUCT
		GAS MAIN
		SEWER MAIN
		TELEPHONE DUCT
		WATER MAIN
		BALANCE STONE WALL
		CULVERT
		GUARD RAIL
		GUTTER LINE AT DRIVEWAYS
		CHAIN LINK FENCE
		STOCKADE FENCE

## GENERAL SYMBOLS (CONT.)

EXISTING PROPOSED

		COMPOST FILTER TUBES
		RETAINING WALL
		WOOD RAIL FENCE
		TREE/WOOD LINE OR LIMIT OF CLEARING AND GRUBBING
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLAN & OVERLAY
		EDGE OF BANK / BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND OR 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 SIGNAL SYMBOLS

EXISTING PROPOSED

		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6'X 6' TYPICAL UNLESS OTHERWISE SPECIFIED)
		VIDEO SURVEILLANCE CAMERA
		MICROWAVE DETECTOR
		MAGNETOMETER (2 SHOWN)
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		OPTICOM CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON (TYPE AS NOTED OR AS SPECIFIED)
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD, OPTICALLY PROGRAMMED
		PEDESTRIAN SIGNAL POST AND BASE
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		STEEL OR ALUMINUM MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (TWO POSTS) (OPTICOM)
		SIGNAL AND LIGHTING MAST ARM (OPTICOM)
		EMERGENCY PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL & METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"X12" (AND AS NOTED)
		ELECTRIC HANDHOLE 12" X 24"
		TRAFFIC SIGNAL INTERCONNECT CONDUIT
		TRAFFIC SIGNAL CONDUIT (TYPE AS NOTED)

## PAVEMENT MARKINGS AND SIGNING SYMBOLS

EXISTING PROPOSED

		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE - 12"
		CROSSWALK
		SOLID WHITE LANE LINE
		BROKEN WHITE LANE LINE (10' LINE, 30' SPACE TYP.)
		SOLID WHITE EDGE LINE
		YELLOW GORE LINE - 12"
		DOUBLE YELLOW CENTER LINE
		SOLID WHITE CHANNELIZATION LINE - 8"
		WHITE GORE LINE - 12"
		SOLID YELLOW EDGE LINE
		BROKEN YELLOW CENTER LINE (10' LINE, 30' SPACE TYP.) - 4"
		SOLID YELLOW CENTER LINE
		DOTTED WHITE LANE LINE - 4" (2' LINE, 4' SPACE)
		DIRECTION OF TRAFFIC FLOW

## ABBREVIATIONS

### GENERAL

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
BLSF	BORDERING LAND SUBJECT TO FLOODING
BM	BENCH MARK
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	LEACHING BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAIL BOX
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
PL	PROPERTY LINE OR APPROXIMATE PROPERTY LINE
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

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### LEGEND AND ABBREVIATIONS

### GENERAL (CONT.)

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
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/ TRUCK PERCENTAGE
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	WHEELCHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

### TRAFFIC SIGNAL

CAB.	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY DON'T WALK - PORTLAND ORANGE
FDW	FLASHING DON'T WALK - PORTLAND ORANGE
FYV	FLASHING AMBER VERTICAL ARROW
FR	FLASHING CIRCULAR RED
FW	FLASHING WALK - LUNAR WHITE
FY	FLASHING CIRCULAR AMBER
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FRV	FLASHING RED VERTICAL ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
OP	OPTICOM
PED	PEDESTRIAN
PTZ	PAN, TILE, ZOOM
R	STEADY CIRCULAR RED
RV	STEADY RED VERTICAL ARROW
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALK - LUNAR WHITE
Y	STEADY CIRCULAR AMBER
YL	STEADY AMBER LEFT ARROW
YR	STEADY AMBER RIGHT ARROW
YV	STEADY AMBER VERTICAL ARROW

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GENERAL NOTES

SURVEY NOTES:

1. THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE COMPILED FROM PHOTOGRAMMETRIC METHODS BY WSP SELLS, FLOWN ON NOVEMBER, 2010, AND SUPPLEMENTED WITH GROUND SURVEY BY GREEN INTERNATIONAL AFFILIATES, INC. IN NOVEMBER, 2010 - NOVEMBER, 2011.
2. WETLANDS WERE DELINEATED BY LEC ENVIRONMENTAL CONSULTANTS IN OCTOBER, 2010 AND SEPTEMBER 2011. THE WETLAND FLAGS WERE FIELD LOCATED BY GREEN INTERNATIONAL AFFILIATES, INC IN NOVEMBER, 2010 AND OCTOBER, 2011.
3. UNDERGROUND UTILITIES SHOWN ARE BASED UPON FIELD OBSERVATIONS AND PLANS OF RECORD. THESE UTILITIES ARE NOT WARRANTED TO BE CORRECT NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES ARE SHOWN.
4. BEARINGS ARE BASED UPON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM.
5. CONTOURS AND ELEVATIONS SHOWN ARE BASED UPON N.A.V.D. 1988.
6. EXISTING RIGHT OF WAY LINES SHOWN ARE THE RESULT OF AN ON THE GROUND SURVEY PERFORMED BY GREEN INTERNATIONAL AFFILIATES IN 2011 AND PLANS AND DEEDS OF RECORD.
7. EXISTING PROPERTY LINES SHOWN ARE PLOTTED FROM AVAILABLE ASSESSOR INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE ONLY.
8. UTILITY POLES SHOWN ARE PLOTTED AT 1' DIAMETER IN AN ATTEMPT TO SHOW THE POLE SIZE APPROXIMATELY TO SCALE. A NUMBER OF UTILITY POLES WERE FIELD MEASURED AND THE RANGE OF MEASUREMENTS WAS BETWEEN 0.8' AND 1.3'. GREEN INTERNATIONAL AFFILIATES USED A SIZE OF 1' BUT IT SHOULD BE NOTED THAT UTILITY POLES SIZES VARY AND NO ATTEMPT WAS MADE TO SHOW ACTUAL POLE SIZES TO SCALE.

UTILITY NOTES:

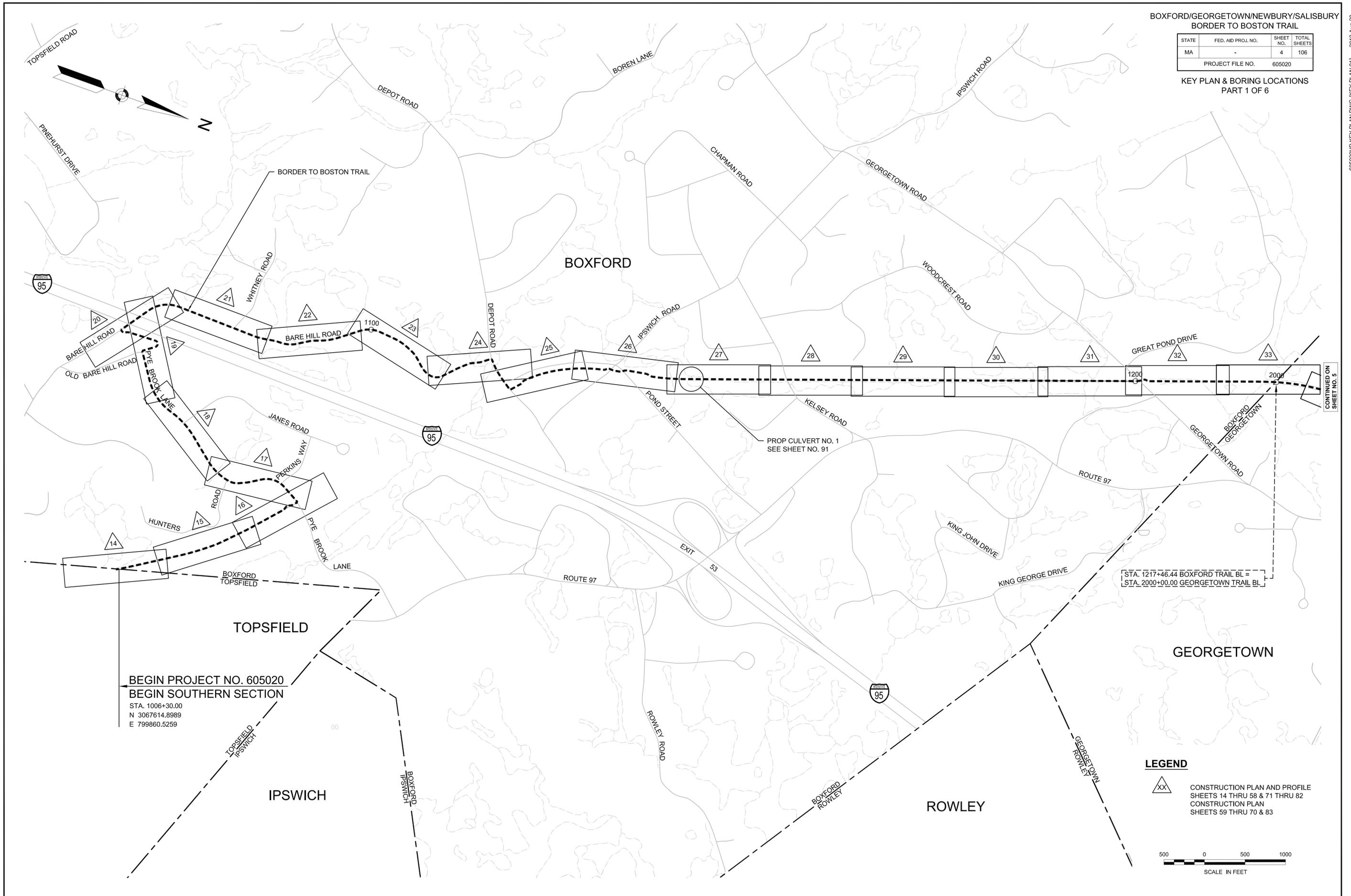
1. ALL UNDERGROUND UTILITIES AS SHOWN WERE COMPILED USING FIELD SURVEY INFORMATION AND AVAILABLE RECORD INFORMATION.
2. RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
3. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS) PRIOR TO DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING OR REPAVING.
4. THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES OR PROPERTY LINES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL CALL "DIG SAFE" (1-811-344-7233) 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY EXCAVATION TO OBTAIN ACCURATE UTILITY LOCATIONS.
5. SUBSURFACE UTILITY LOCATIONS HAVE BEEN PLOTTED TO MEET UTILITY QUALITY LEVEL "C" AS DESCRIBED IN ASCE STANDARD 38-02 AND SUMMARIZED BELOW. THE UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS BASED ON ABOVE-GROUND FIELD OBSERVATION AND EXISTING RECORD INFORMATION RECEIVED FROM UTILITY STAKE-HOLDERS.
6. INVERTS SHOWN ON PLAN ARE NOT GUARANTEED TO BE ACCURATE. DUE TO THE LIMITATIONS OF FIELD OBSERVATION AND SURVEY TECHNIQUES THE INVERTS ARE SHOWN AS APPROXIMATE ONLY AND SHALL NOT BE WARRANTED TO BE CORRECT. ADDITIONAL FIELD INVESTIGATION IS NECESSARY WHERE ACCURATE MEASUREMENTS ARE REQUIRED FOR DESIGN OF CRITICAL AREAS.
7. THE EXISTING CONDITIONS PLAN IS TO BE USED FOR THE SPECIFIED PROJECT ONLY AND IS NOT WARRANTED TO BE COMPLETE FOR ANY OTHER FUTURE PROJECTS.

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
BORDER TO BOSTON TRAIL

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KEY PLAN & BORING LOCATIONS  
PART 1 OF 6

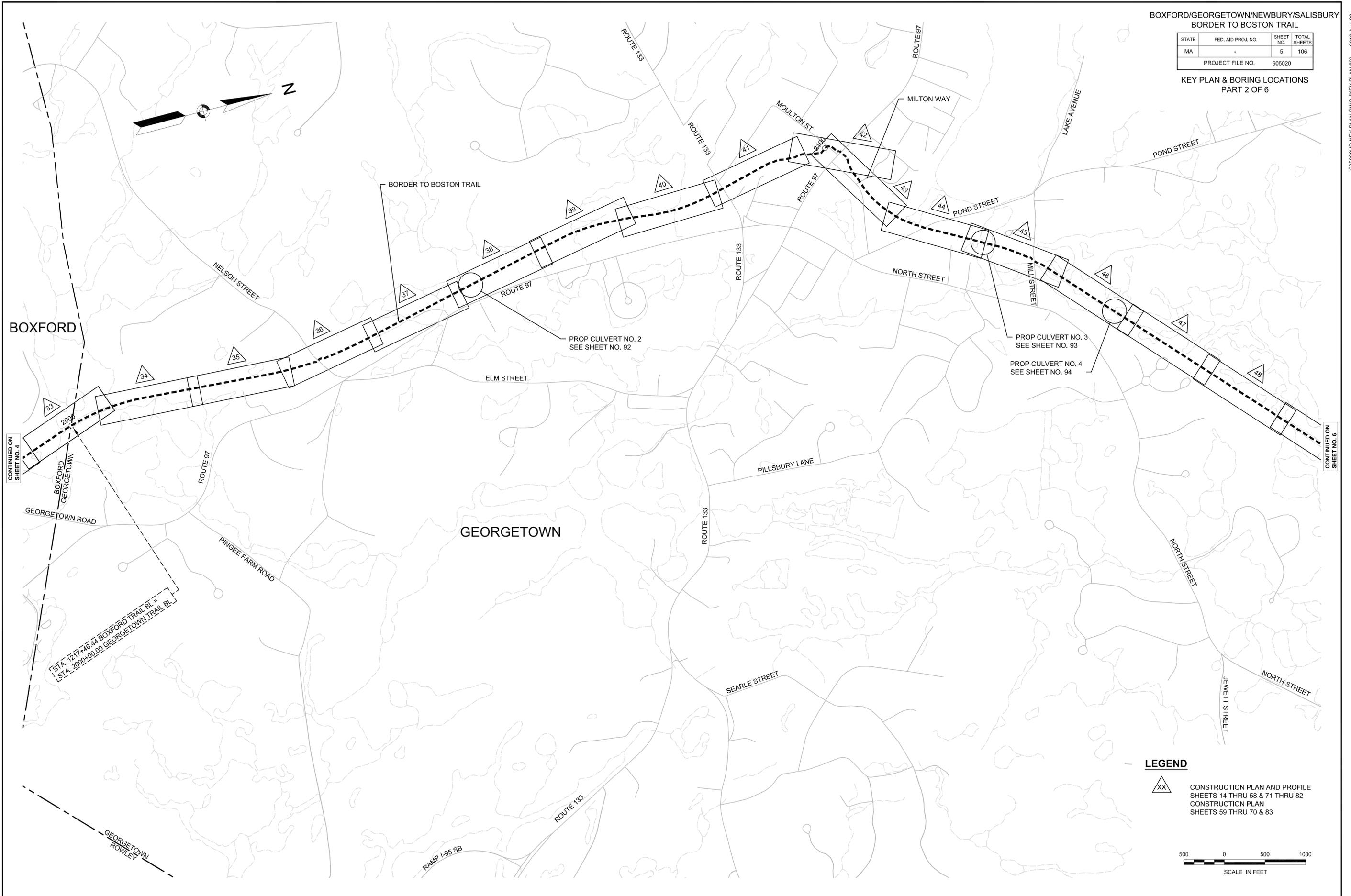
605020.DWG KEY PLAN.DWG [KEY PLAN.01] 2012-Aug-20



BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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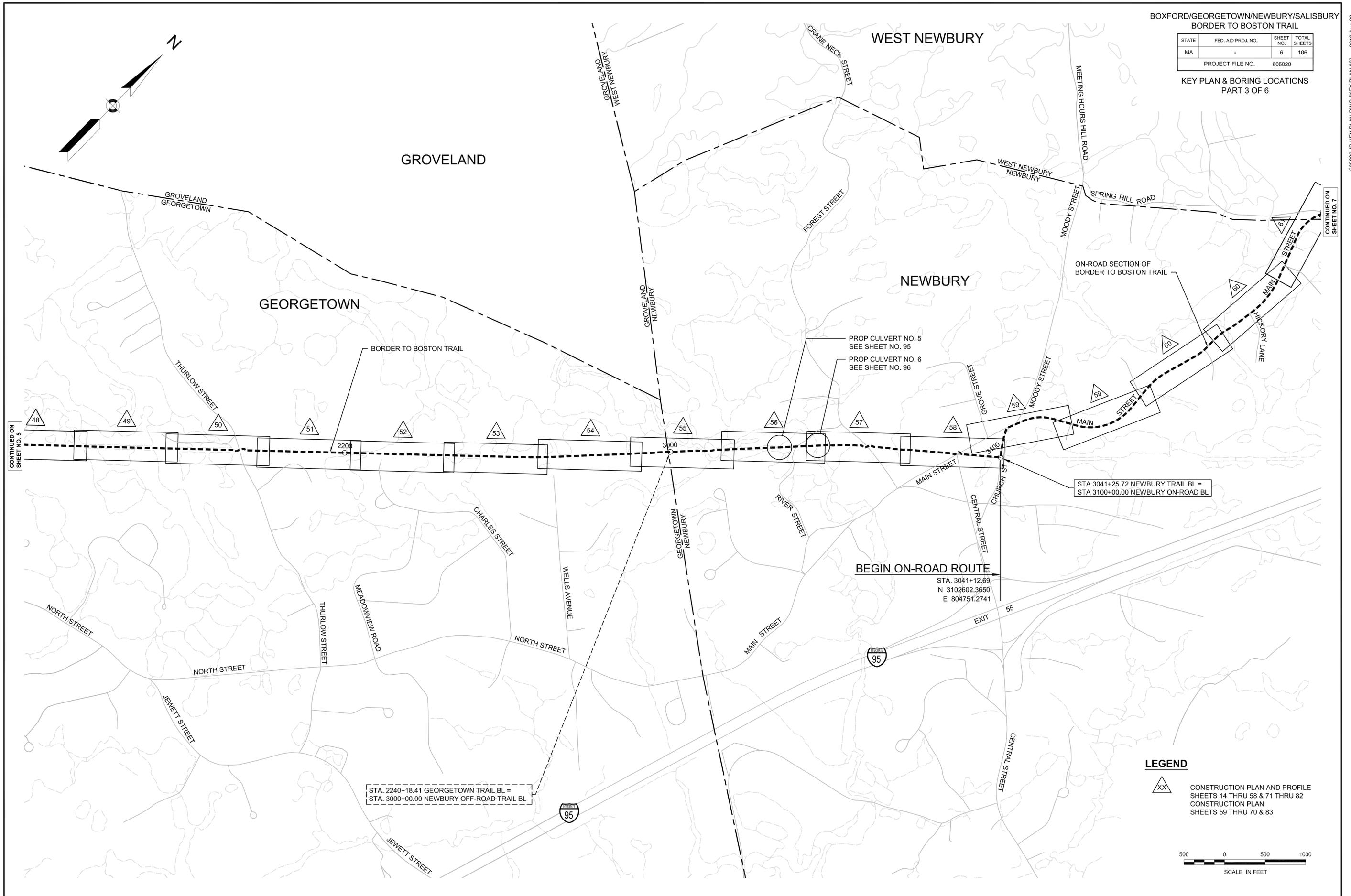
KEY PLAN & BORING LOCATIONS  
PART 2 OF 6



BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
BORDER TO BOSTON TRAIL

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KEY PLAN & BORING LOCATIONS  
PART 3 OF 6



CONTINUED ON SHEET NO. 5

CONTINUED ON SHEET NO. 7

PROP CULVERT NO. 5  
SEE SHEET NO. 95  
PROP CULVERT NO. 6  
SEE SHEET NO. 96

STA 3041+25.72 NEWBURY TRAIL BL =  
STA 3100+00.00 NEWBURY ON-ROAD BL

**BEGIN ON-ROAD ROUTE**  
STA. 3041+12.69  
N 3102602.3650  
E 804751.2741

STA. 2240+18.41 GEORGETOWN TRAIL BL =  
STA. 3000+00.00 NEWBURY OFF-ROAD TRAIL BL

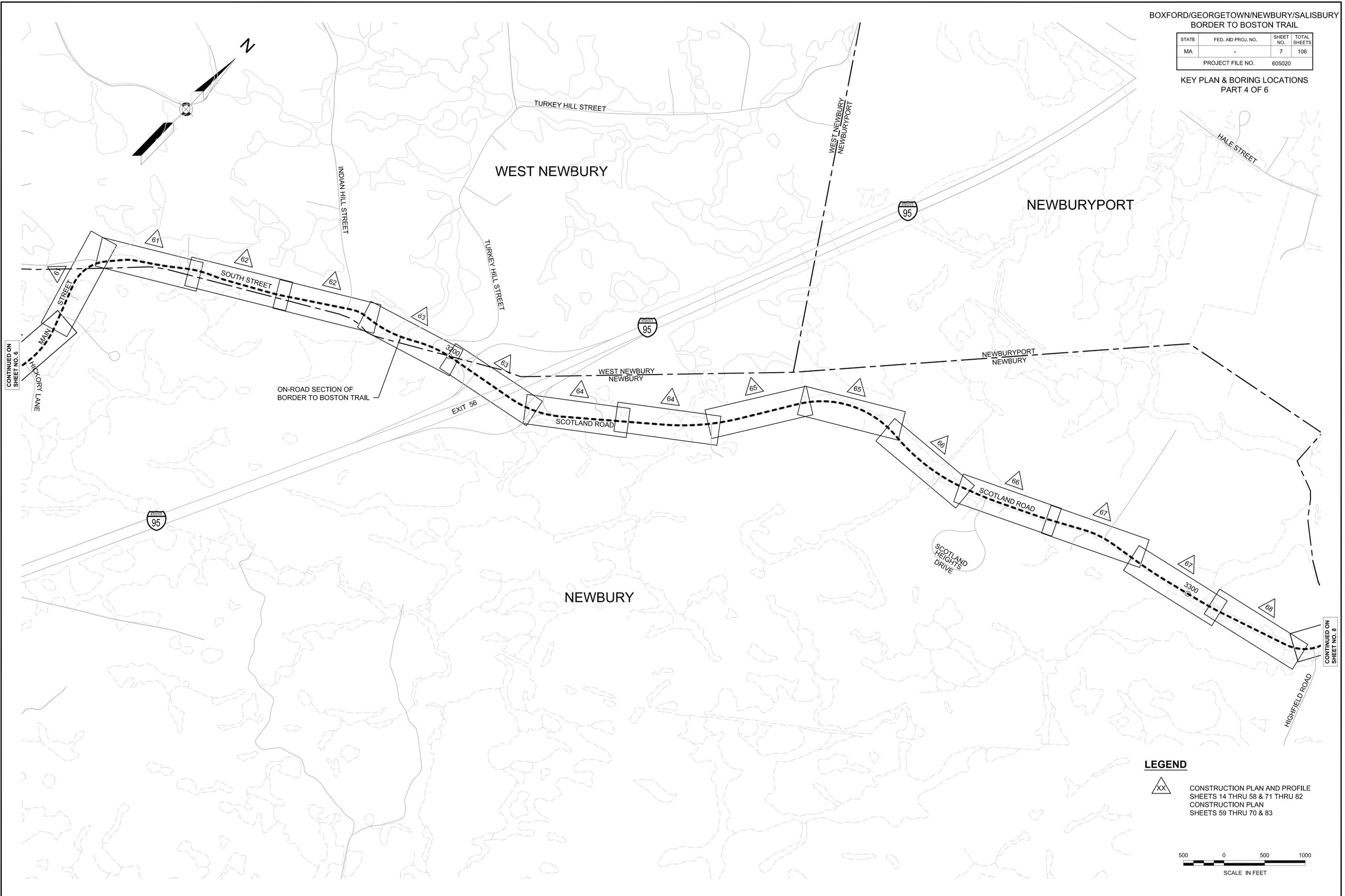
**LEGEND**  
 CONSTRUCTION PLAN AND PROFILE SHEETS 14 THRU 58 & 71 THRU 82  
 CONSTRUCTION PLAN SHEETS 59 THRU 70 & 83



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KEY PLAN & BORING LOCATIONS  
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CONTINUED ON  
SHEET NO. 6

CONTINUED ON  
SHEET NO. 8

**LEGEND**

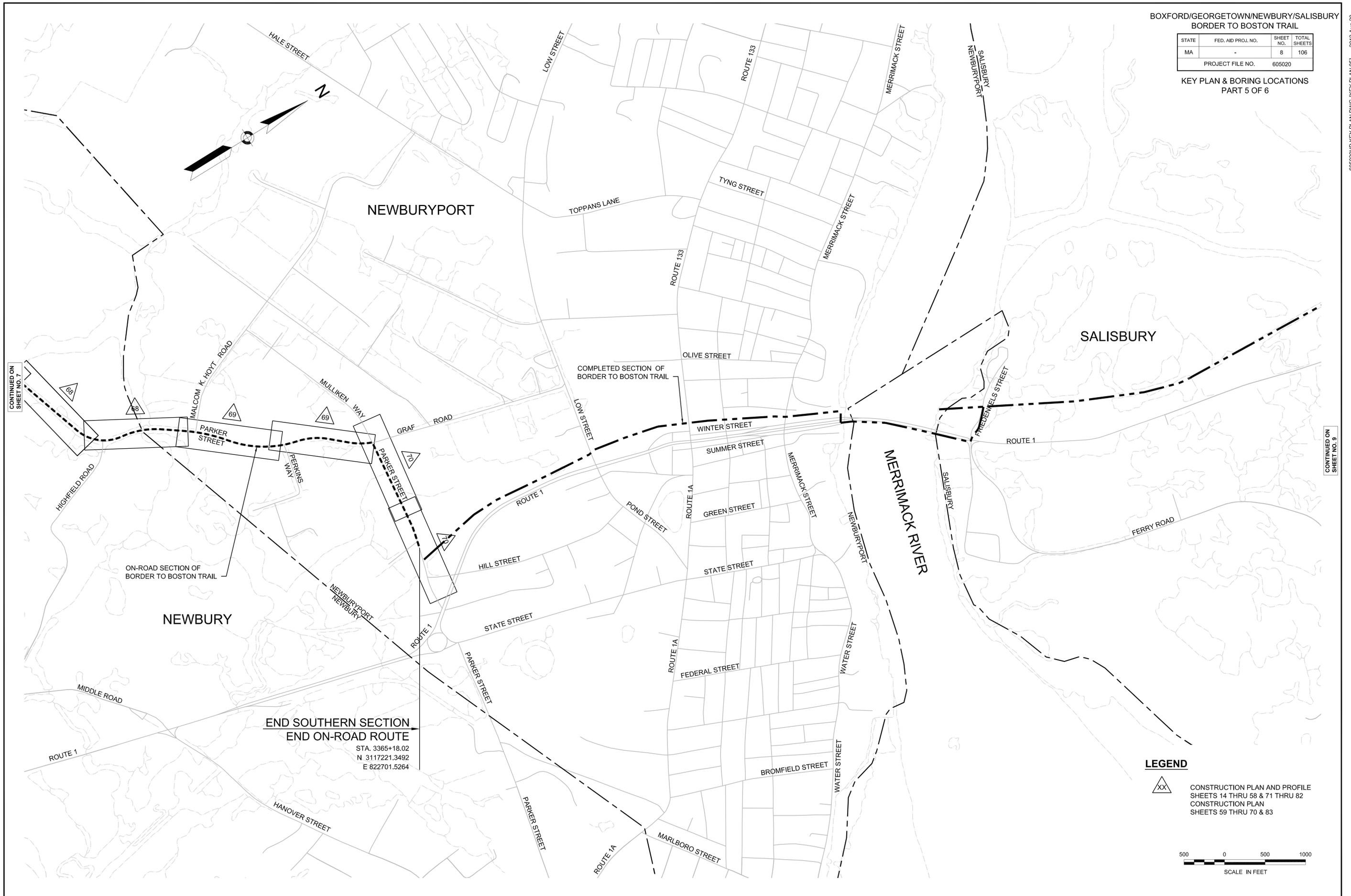
-  CONSTRUCTION PLAN AND PROFILE SHEETS 14 THRU 58 & 71 THRU 82
-  CONSTRUCTION PLAN SHEETS 59 THRU 70 & 83



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KEY PLAN & BORING LOCATIONS  
PART 5 OF 6



CONTINUED ON SHEET NO. 7

CONTINUED ON SHEET NO. 9

END SOUTHERN SECTION  
END ON-ROAD ROUTE  
STA. 3365+18.02  
N 3117221.3492  
E 822701.5264

**LEGEND**  
 CONSTRUCTION PLAN AND PROFILE SHEETS 14 THRU 58 & 71 THRU 82  
 CONSTRUCTION PLAN SHEETS 59 THRU 70 & 83



BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
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KEY PLAN & BORING LOCATIONS  
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SHEET NO. 8



**BEGIN NORTHERN SECTION**  
 STA. 4000+00.00  
 N 3130425.6771  
 E 826096.9299

**END PROJECT NO. 605020**  
**END NORTHERN SECTION**  
 STA. 4125+69.00  
 N 3142759.5481  
 E 826753.8821

**LEGEND**

-  CONSTRUCTION PLAN AND PROFILE  
SHEETS 14 THRU 58 & 71 THRU 82  
CONSTRUCTION PLAN  
SHEETS 59 THRU 70 & 83
-  EXISTING BORING  
BB-XX



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BORING LOGS

massDOT		NEW HAMPSHIRE BORING, INC.		Phone: (603)437-1610		Boring No. BB-1	
P.O. Box 165 Derry, NH 03038		E Mail: nhb@nhboring.com		Fax: (603) 437-0034		Scale 1" = 5'	
City/Town:	SALISBURY	Bridge:	S-02-004	Project File No.:	605020	Contract No.:	58183
Project:	Border to Boston Trail over Lafayette Road (Route 1)			Date & Time Started:	1/10/12 7:30 am	Total Hours:	5.5
Groundwater Depth:	14'6"	Date & Time:	1/10/12 10:30 am	Date & Time Completed:	1/10/12 1:00 pm		
Coordinates:	N 3135227	E 826358	Driller's Name:	Walter Hoekele	Helper's Name:	Daniel Strickland	
Ground Elevation:	30.0'	Inspector's Name:	Jay Scully	Inspector's Company:	Fay, Spoffard & Thorndike for *		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minute Per Foot	Recovery Inches	Field Description		Strata Changes	
S-1	0' - 2'	6 17 13 15	14"	TOPSOIL Dry, medium dense, brown, FINE SAND, some fine to medium gravel, trace coarse sand.		2"	
S-2	4' - 6'	11 39 29 34	12"	Dry, very dense, brown, FINE SAND, some fine to coarse gravel, some inorganic silt, trace root fibers.			
S-3	9' - 11'	14 5 10 22	10"	Moist, medium dense, light brown, FINE SAND, some inorganic silt, trace coarse sand, trace fine gravel, trace root fibers.			
S-4	14' - 14'6"	50 52 68/2"	12"	Dry, hard, light brown, CLAY, some fine sand, some inorganic silt.		13'	
S-4A	14'6" - 15'2"			Wet, brown, FINE SAND, some inorganic silt, some fine to coarse gravel. Encountered COBBLE 15'2" to 16'. Top of BEDROCK at 16'9". Rollerbit to 19', began coring. Hard, fresh, sound, gray and black DIORITE.		14'6" 16'9"	
C-1	19' - 24'	4 5 6 4 5	60"	Percent Recovery = 100%			
C-2	24' - 29'	5 5 6 6 9	60"	0" - 45" Hard, fresh, sound, gray and black GRANDIORITE. 45" - 60" Hard, fresh, sound, gray, GABRO.  Percent Recovery = 100%		29'	
Remarks: * GEI Consultants, Inc.				Arrow-Board: Signs: Cones: 1	Protective Device - Stand: Well Depth: Stick Up Pipe: Type of Drill Rig: Diederich D-50	Box: Solid Pipe: Screen Pipe:	
Penetration Resistance (N) Guide:							
Cohesionless Soils (Sands, Gravels)				Cohesive Soils (Silt, Clays)			
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing HW Size: 4"	Depth: 15'		
Very Loose	0 - 4	Very Soft	0 - 2	Hammer Weight: 300 lbs.	Fall: 30"		
Loose	4 - 10	Soft	2 - 4	Sampler Type: S/S	Size: 1 3/8"		
Medium Dense	10 - 30	Medium Stiff	4 - 8	Automatic Hammer Weight:			
Dense	30 - 50	Stiff	8 - 15	Safety Hammer Weight: 140 lbs.	Donut Hammer Weight:		
Very Dense	Over 50	Very Stiff	15 - 30	Fall: 30"	Core Barrel Type: NX	Size: 2.15"	
N=Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 40-50%, some = 10-40%, trace = 10% or less							

BB-1  
SCALE: 1"=5'-0"

massDOT		NEW HAMPSHIRE BORING, INC.		Phone: (603)437-1610		Boring No. BB-2	
P.O. Box 165 Derry, NH 03038		E Mail: nhb@nhboring.com		Fax: (603) 437-0034		Scale 1" = 5'	
City/Town:	SALISBURY	Bridge:	S-02-004	Project File No.:	605020	Contract No.:	58183
Project:	Border to Boston Trail over Lafayette Road (Route 1)			Date & Time Started:	1/10/12 2:00 pm	Total Hours:	12
Groundwater Depth:	14'	Date & Time:	1/12/12 12:00 pm	Date & Time Completed:	1/12/12 12:00 pm		
Coordinates:	N 3135391	E 826367	Driller's Name:	Walter Hoekele	Helper's Name:	Daniel Strickland	
Ground Elevation:	30.6'	Inspector's Name:	Jay Scully	Inspector's Company:	Fay, Spoffard & Thorndike for *		
Sample Number	Depth Range (Feet)	Blow Counts per 6 Inches Coring Times Minute Per Foot	Recovery Inches	Field Description		Strata Changes	
S-1	0' - 2'	5 10 10 13	6"	TOPSOIL Dry, medium dense, brown, FINE SAND, some fine to coarse gravel, trace coarse sand.		2"	
S-2	4' - 6'	12 13 10 14	8"	Dry, medium dense, brown, FINE SAND, trace fine to medium gravel, trace coarse sand.			
S-3	9' - 11'	12 12 20 18	4"	Dry, dense, brown, FINE SAND, trace fine to medium gravel, trace coarse sand.			
S-4	14' - 16'	20 20 17 14	10"	Wet, dense, brown, FINE SAND, some inorganic silt, trace fine gravel.		13'	
S-5	19' - 20'9"	20 32 68 52/3"	12"	Dry, hard, brown, CLAY, some fine sand.		176"	
S-6	24' - 26'	16 24 28 37	22"	Moist, hard, gray, CLAY, trace fine sand.			
S-7	29' - 31'	10 17 27 36	24"	Moist, hard, gray, CLAY, trace fine sand, trace inorganic silt.			
S-8	34' - 36'	WOH WOH 7 6	24"	Wet, medium stiff, gray, CLAY, trace fine sand, trace inorganic silt.		37'2"	
C-1	39' - 44'	5 6 2 0 0	19"	Encountered BOULDER at 37'2" to 42'. Rollerbit to 39', began coring. Cored boulder from 39' to 42', core barrel dropped out of boulder.		42'	
S-9	44' - 45'4"	73 30 90/4"	6"	Wet, very dense, gray, FINE SAND, some inorganic silt, trace coarse sand, trace fine gravel.		48'2"	
C-2	49' - 54'	4 4 4 3 3	60"	Top of BEDROCK at 48'2" Rollerbit to 49', began coring. Hard, light gray and black GRANDIORITE.  Percent Recovery = 100%			
C-3	54' - 59'	4 3 4 4 5	60"	Hard, light gray and black GRANDIORITE.  Percent Recovery = 100%		59'	
Remarks: * GEI Consultants, Inc. WOH = Weight of hammer				Arrow-Board: Signs: Cones:	Protective Device - Stand: Well Depth: Stick Up Pipe: Type of Drill Rig: Diederich D-50	Box: Solid Pipe: Screen Pipe:	
Penetration Resistance (N) Guide:							
Cohesionless Soils (Sands, Gravels)				Cohesive Soils (Silt, Clays)			
Relative Density	Penetration Resistance	Consistency	Penetration Resistance	Casing HW Size: 4"	Depth: 25'		
Very Loose	0 - 4	Very Soft	0 - 2	Hammer Weight: 300 lbs.	Fall: 30"		
Loose	4 - 10	Soft	2 - 4	Sampler Type: S/S	Size: 1 3/8"		
Medium Dense	10 - 30	Medium Stiff	4 - 8	Automatic Hammer Weight:			
Dense	30 - 50	Stiff	8 - 15	Safety Hammer Weight: 140 lbs.	Donut Hammer Weight:		
Very Dense	Over 50	Very Stiff	15 - 30	Fall: 30"	Core Barrel Type: NX	Size: 2.15"	
N=Sum of Second and Third 6" Blow Counts Terms Used for Second Entry of Descriptions: and = 40-50%, some = 10-40%, trace = 10% or less							

BB-2  
SCALE: 1"=5'-0"

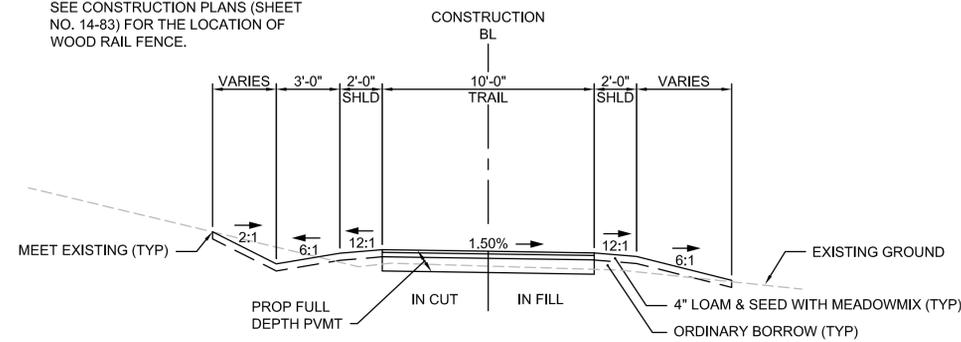
BORING NOTES:

- LOCATION OF BORINGS SHOWN ON SHEET 9, KEY PLAN THUS: BB-1 ⊕
- BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
- FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D. SPLIT SPOON SAMPLER 6 INCHES WITH A 140 POUND WEIGHT FALLING 30 INCHES.
- BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, ROOM 6500, BOSTON, MA. 02116-3973 AT (617) 973-8836.
- ALL BORINGS WERE MADE IN JANUARY OF 2012.
- THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
- THE DEPTHS AS SHOWN ON THE ORIGINAL BORING LOGS HAVE BEEN CONVERTED TO ELEVATIONS BY THE ENGINEER.

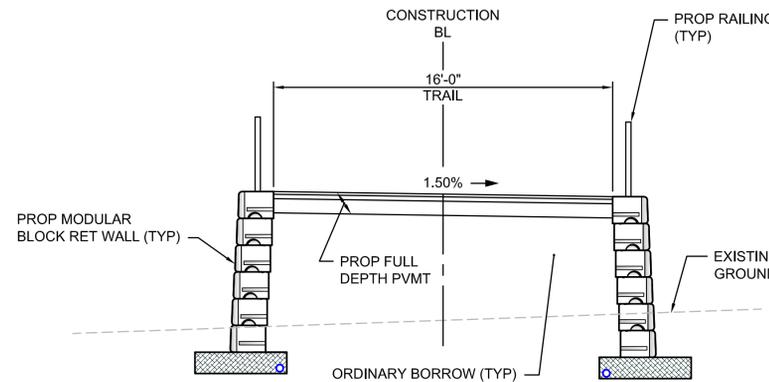
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	106
PROJECT FILE NO.		605020	

TYPICAL SECTIONS  
PART 1 OF 3

NOTE:  
SEE CONSTRUCTION PLANS (SHEET NO. 14-83) FOR THE LOCATION OF WOOD RAIL FENCE.



TYPICAL SECTION  
BOXFORD, GEORGETOWN, NEWBURY & SALISBURY  
STA 1006+30± TO 1064+00±    STA 3036+35± TO 3041+13±  
STA 1123+83± TO 1129+12±    STA 4005+50± TO 4007+00±  
STA 1134+92± TO 1137+63±    STA 4014+40± TO 4014+97±  
STA 1139+53± TO 1145+26±    STA 4025+85± TO 4026+05±  
STA 2092+00± TO 2099+00±    STA 4030+05± TO 4048+30±  
STA 2116+52± TO 2240+18±    STA 4052+74± TO 4125+75±



TYPICAL SECTION  
BOXFORD & SALISBURY  
STA 1064+00± TO 1067+02±  
STA 4013+25± TO 4014+40±

### PAVEMENT NOTES

#### PROPOSED FULL DEPTH PAVEMENT TRAIL, PARKING LOT AND DRIVEWAY SECTIONS

**SURFACE:** (ONE LAYER)  
1-1/2" HOT MIX ASPHALT  
(HMA) SURFACE COURSE

BITUMEN FOR TACK COAT (RS-1) AT  
0.10 GAL/SY OVER EXISTING PAVEMENT

**INTERMEDIATE:** (ONE LAYER)  
2-1/2" HMA INTERMEDIATE COURSE

**BASE:** (ONE LAYER)  
8" (MIN) GRAVEL BORROW, TYPE b

#### CEMENT CONCRETE SIDEWALK / DRIVEWAY

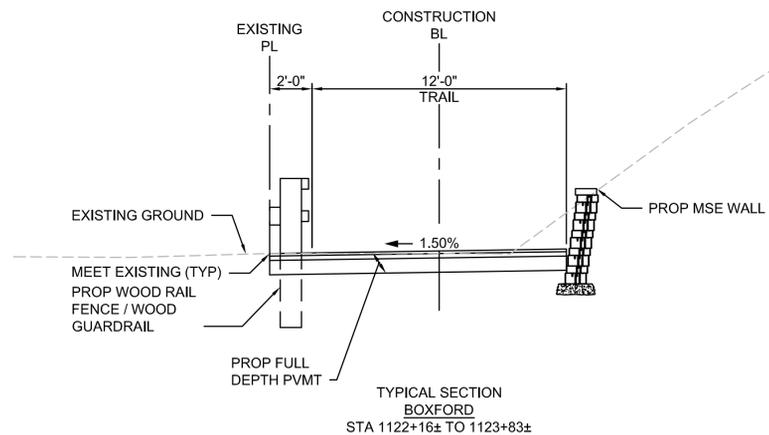
**SURFACE:** (ONE LAYER)  
6" CEMENT CONCRETE

**BASE:** (ONE LAYER)  
8" (MIN) GRAVEL BORROW, TYPE b

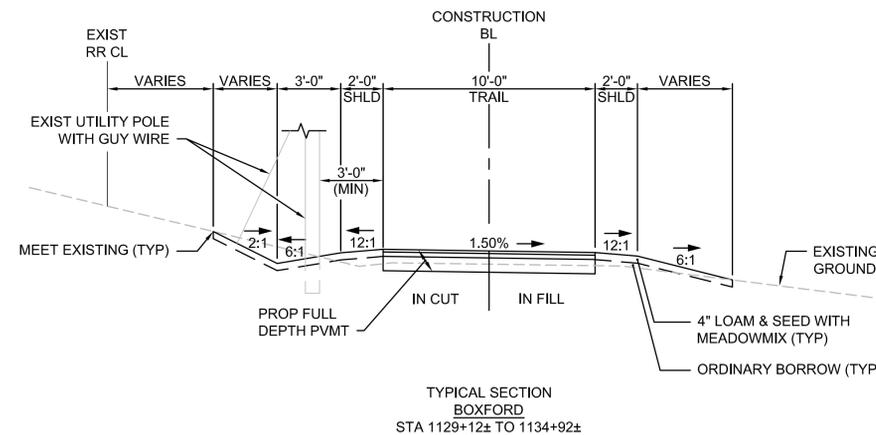
#### PROPOSED GRAVEL APRON, DRIVEWAY, AND PARKING LOT SECTIONS

**SURFACE:** (ONE LAYER)  
8" (MIN) GRAVEL BORROW, TYPE b, COMPACTED

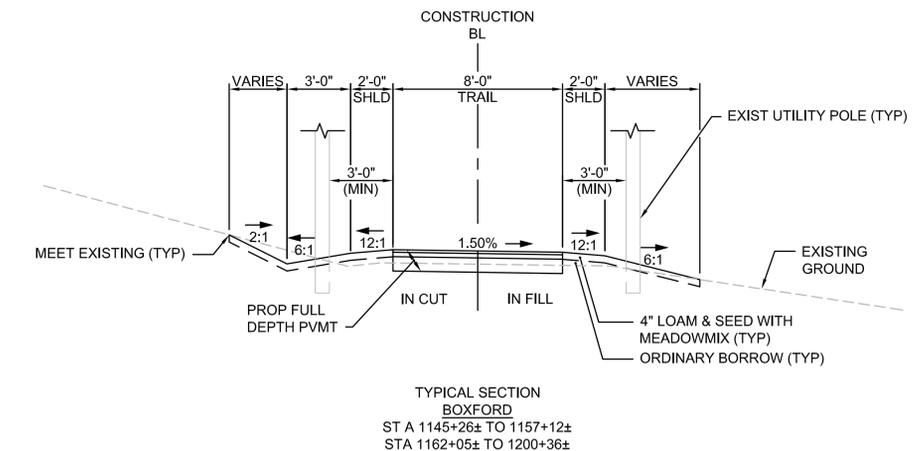
\* - TOLERANCE FOR CONSTRUCTION ±0.5% (TYP)



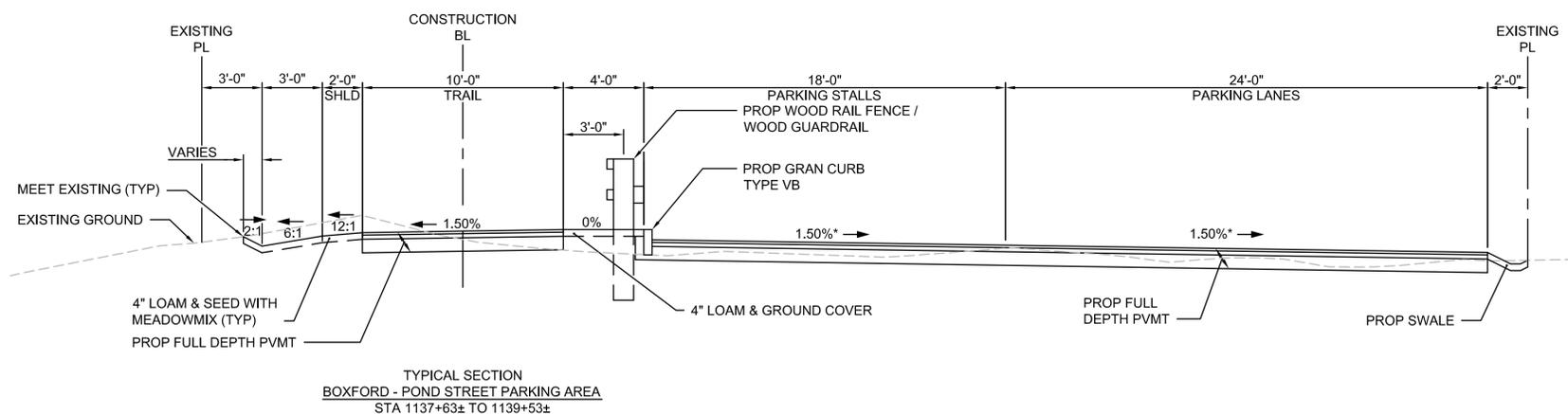
TYPICAL SECTION  
BOXFORD  
STA 1122+16± TO 1123+83±



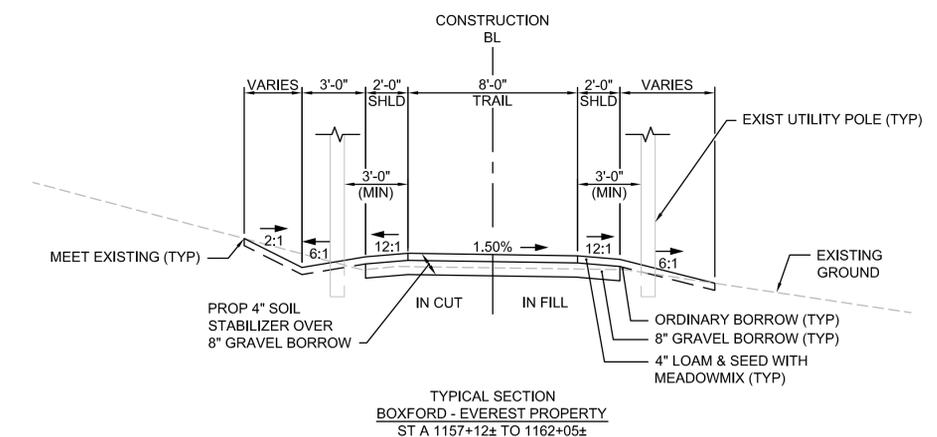
TYPICAL SECTION  
BOXFORD  
STA 1129+12± TO 1134+92±



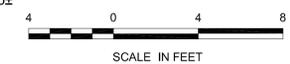
TYPICAL SECTION  
BOXFORD  
ST A 1145+26± TO 1157+12±  
STA 1162+05± TO 1200+36±



TYPICAL SECTION  
BOXFORD - POND STREET PARKING AREA  
STA 1137+63± TO 1139+53±

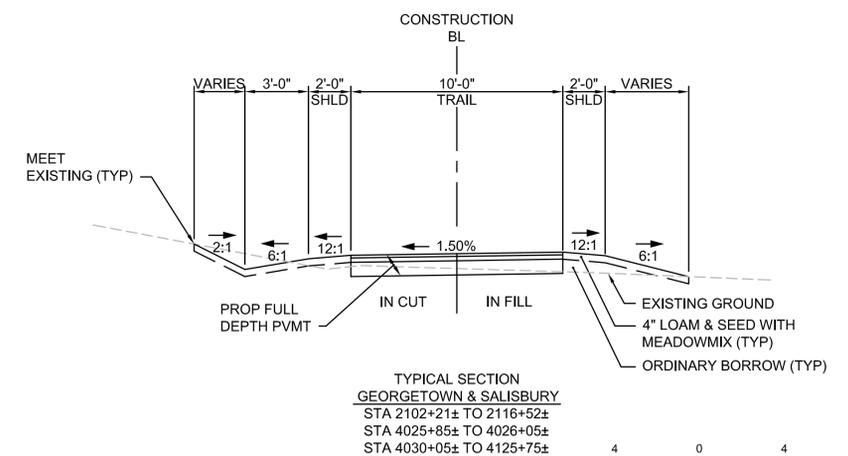
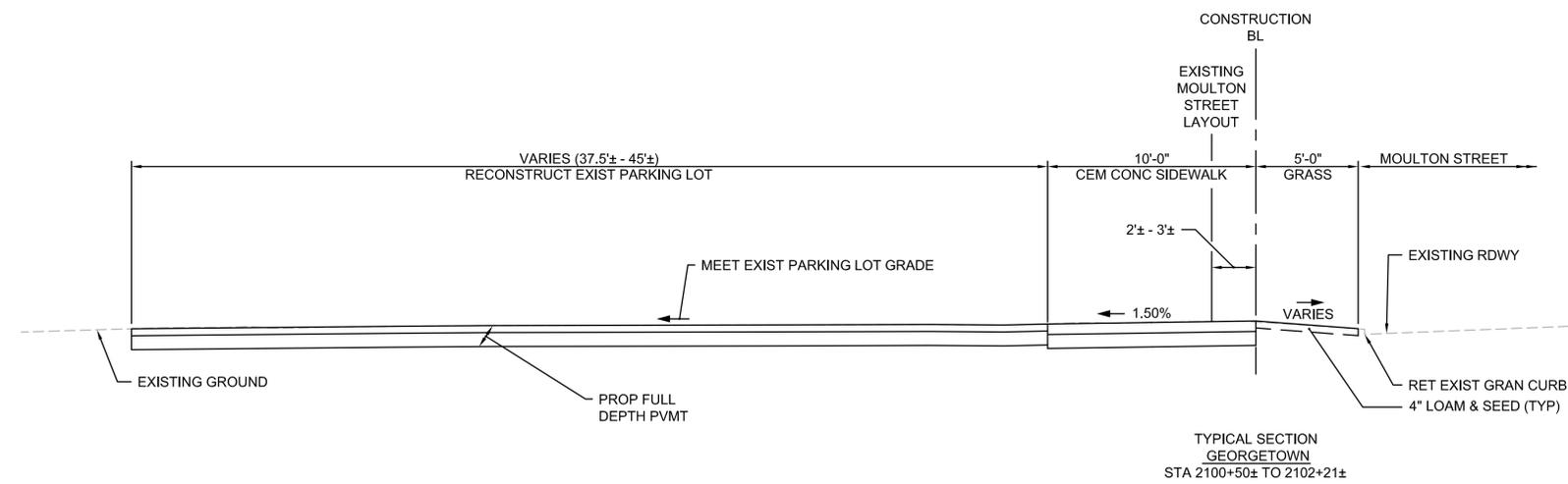
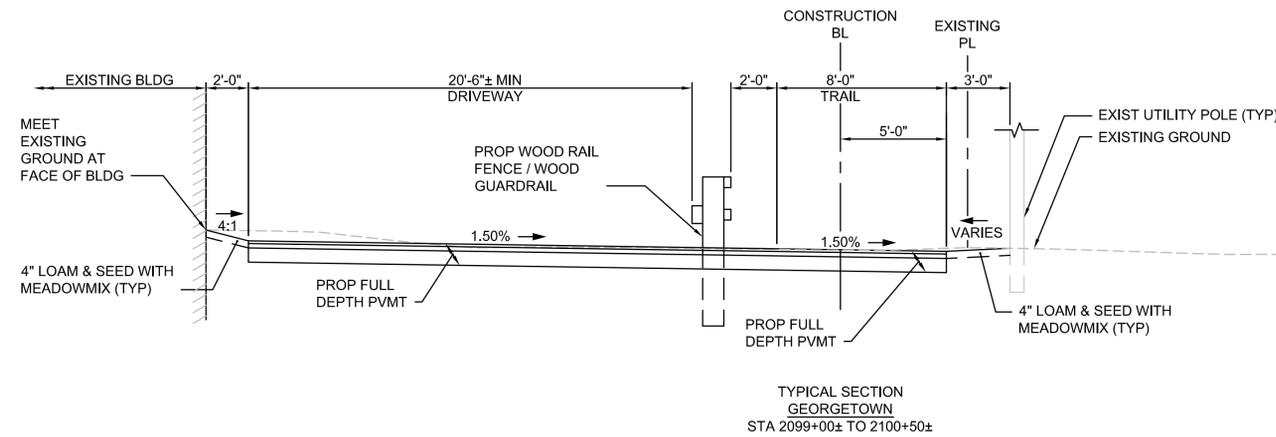
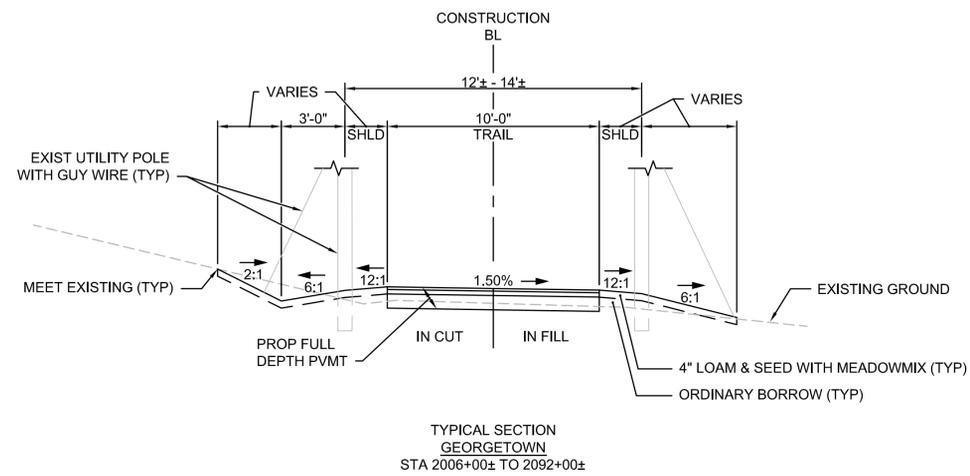
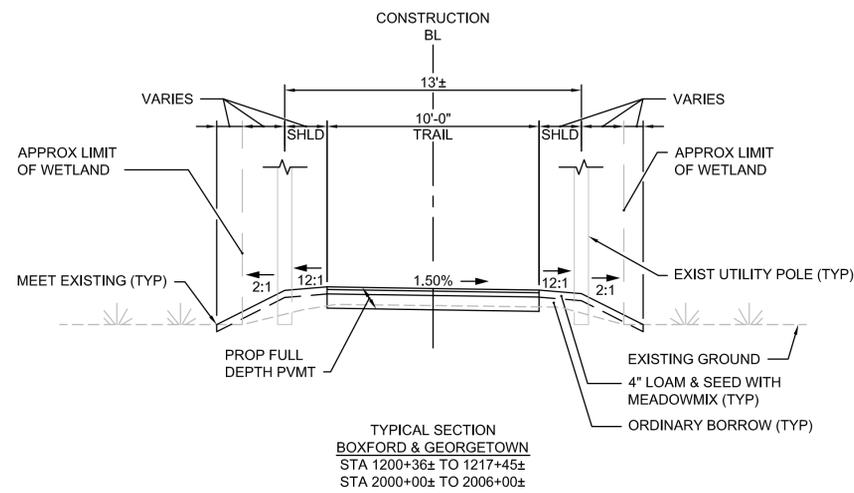


TYPICAL SECTION  
BOXFORD - EVEREST PROPERTY  
ST A 1157+12± TO 1162+05±



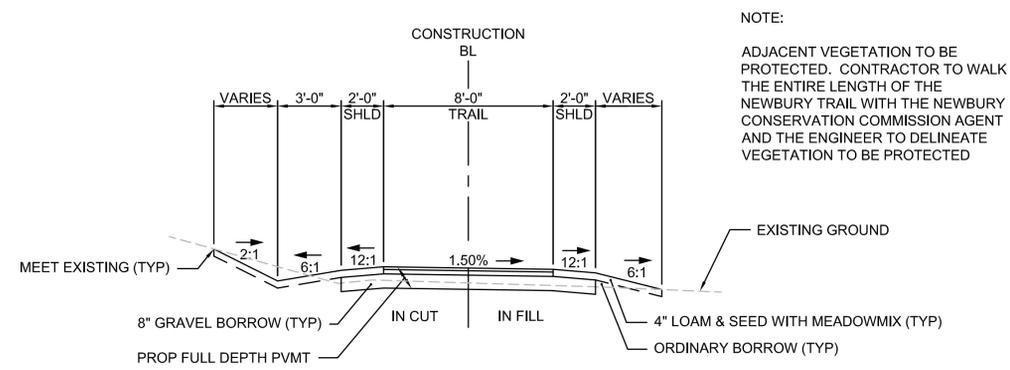
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	12	106
PROJECT FILE NO.		605020	

TYPICAL SECTIONS  
PART 2 OF 3

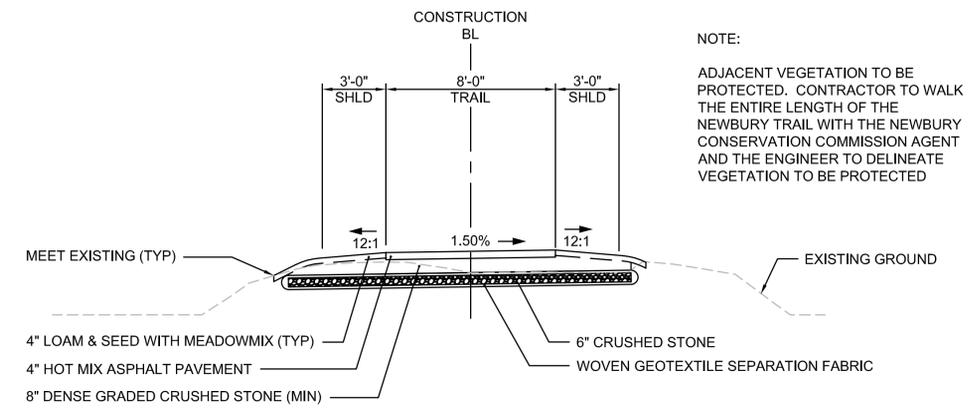


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	106
PROJECT FILE NO.		605020	

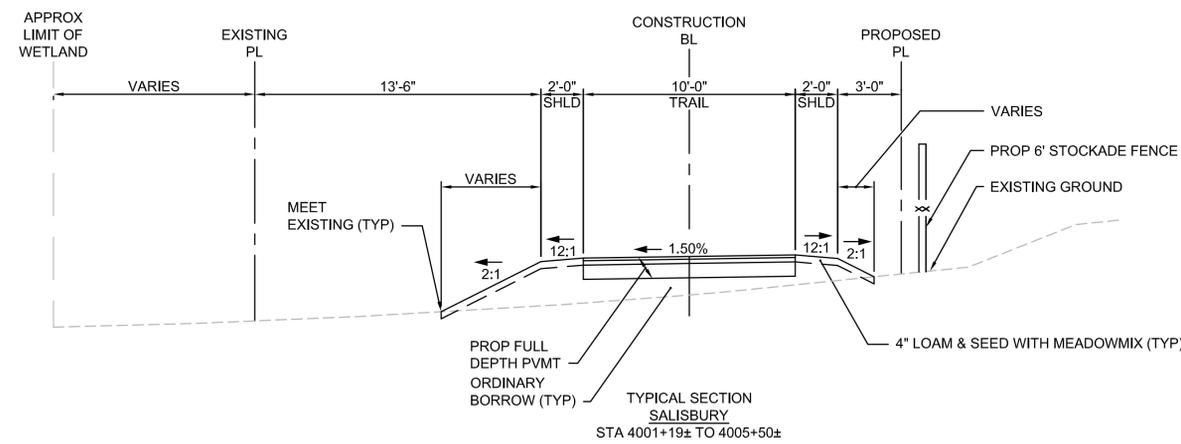
TYPICAL SECTIONS  
PART 3 OF 3



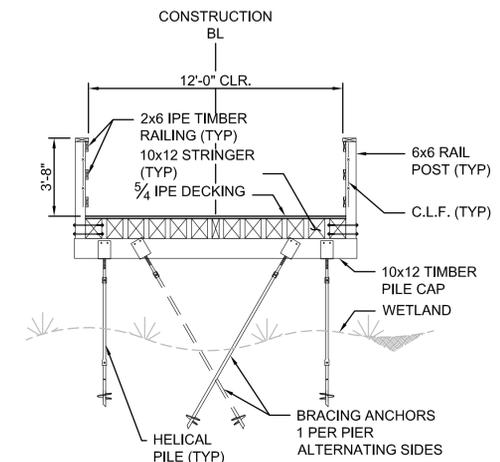
TYPICAL SECTION  
NEWBURY  
STA 3000+00± TO 3006+00±  
STA 3013+40± TO 3035+25±



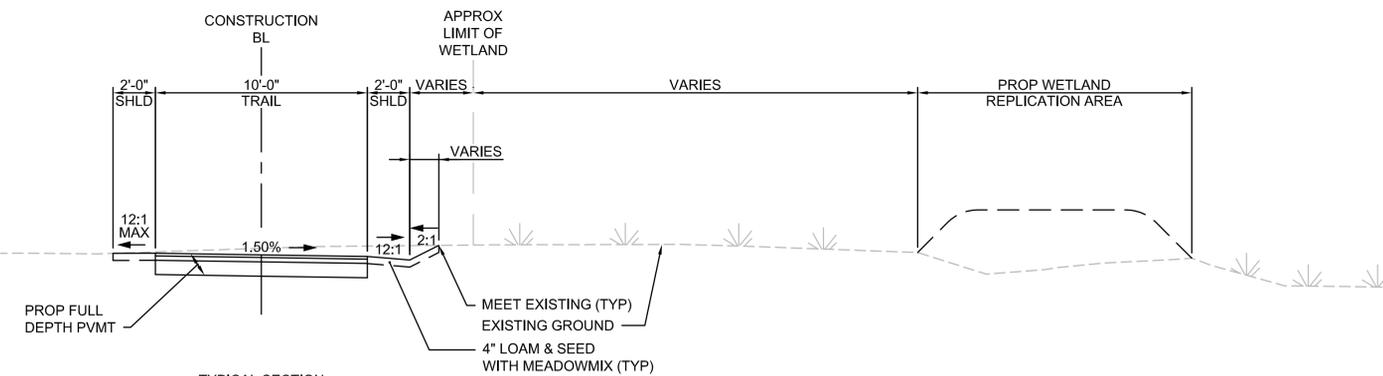
TYPICAL SECTION  
NEWBURY  
STA 3006+00± TO 3013+40±



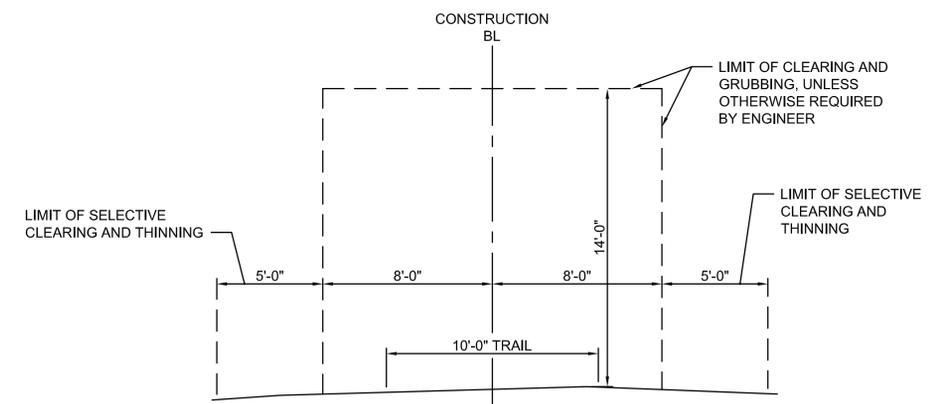
TYPICAL SECTION  
SALISBURY  
STA 4001+19± TO 4005+50±



TYPICAL SECTION  
SALISBURY  
STA 4026+05± TO 4030+05±



TYPICAL SECTION  
SALISBURY  
STA 4007+00± TO 4013+25±



TYPICAL TRAIL CLEARANCE

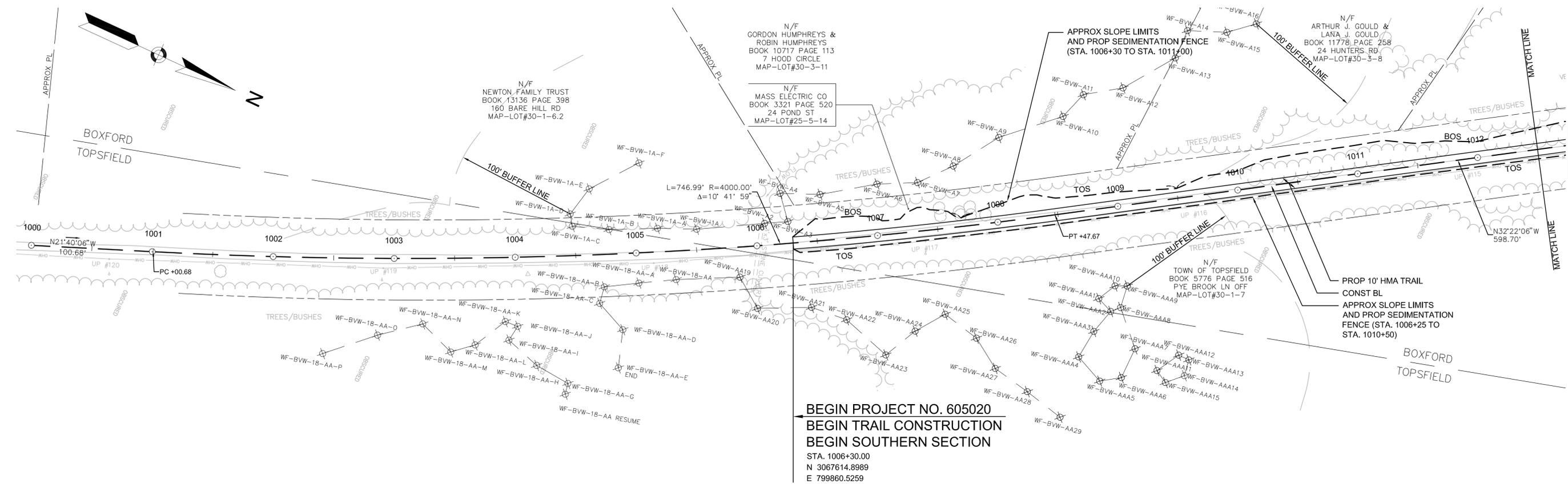


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	106
PROJECT FILE NO.		605020	

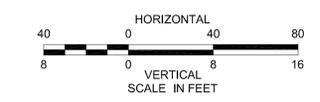
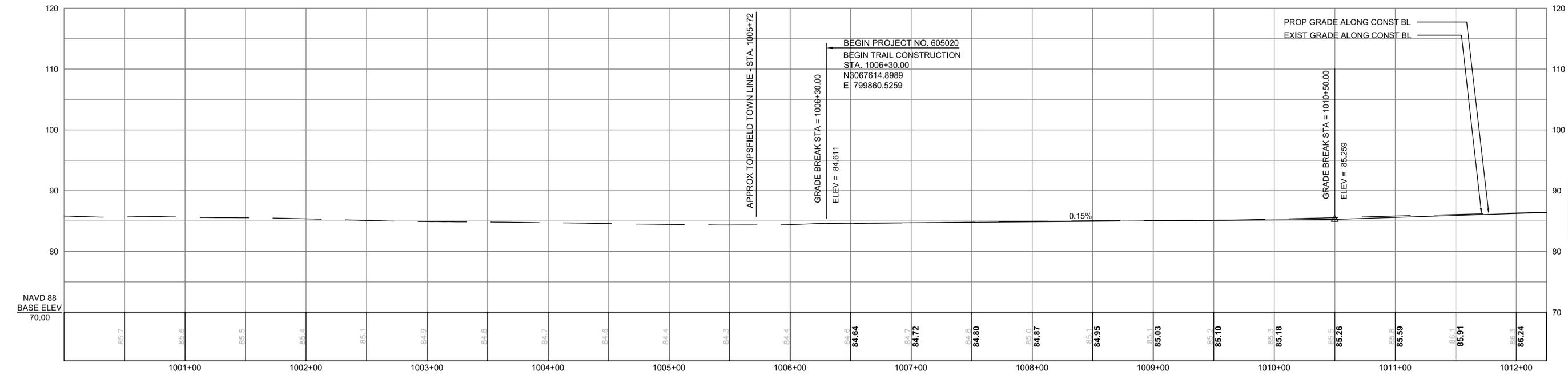
CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 1 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



**BEGIN PROJECT NO. 605020**  
**BEGIN TRAIL CONSTRUCTION**  
**BEGIN SOUTHERN SECTION**  
STA. 1006+30.00  
N 3067614.8989  
E 799860.5259



NAVD 88  
BASE ELEV  
70.00

CONTINUED ON  
SHEET NO. 15

CONTINUED ON  
SHEET NO. 15

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 2 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

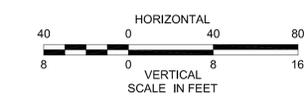
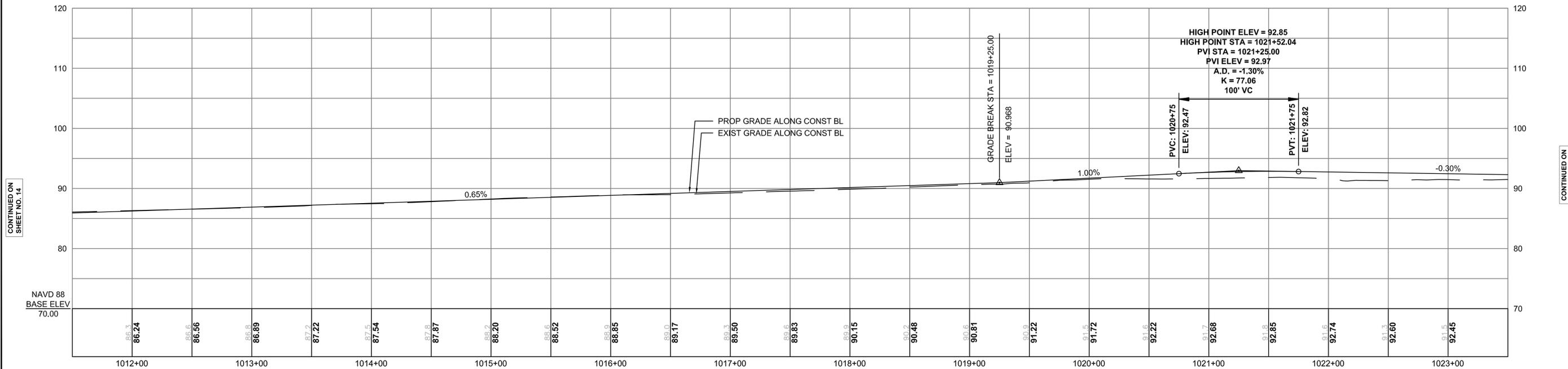
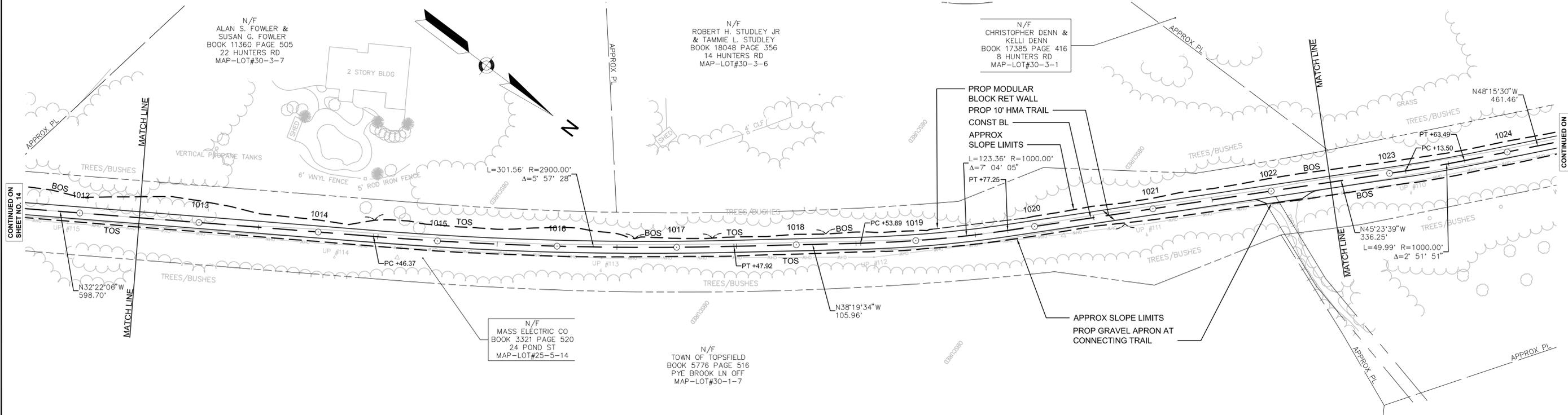
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON  
SHEET NO. 14

CONTINUED ON  
SHEET NO. 16

606020.HD CONST PLANS BOXFORD.DWG [BOX 02] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 3 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

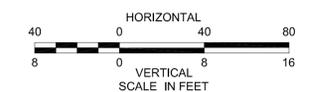
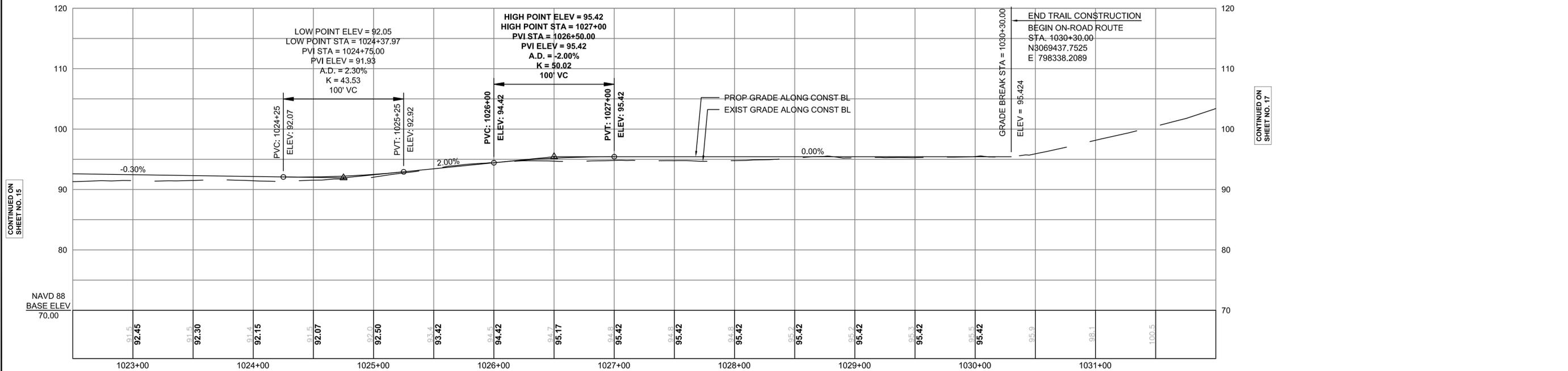
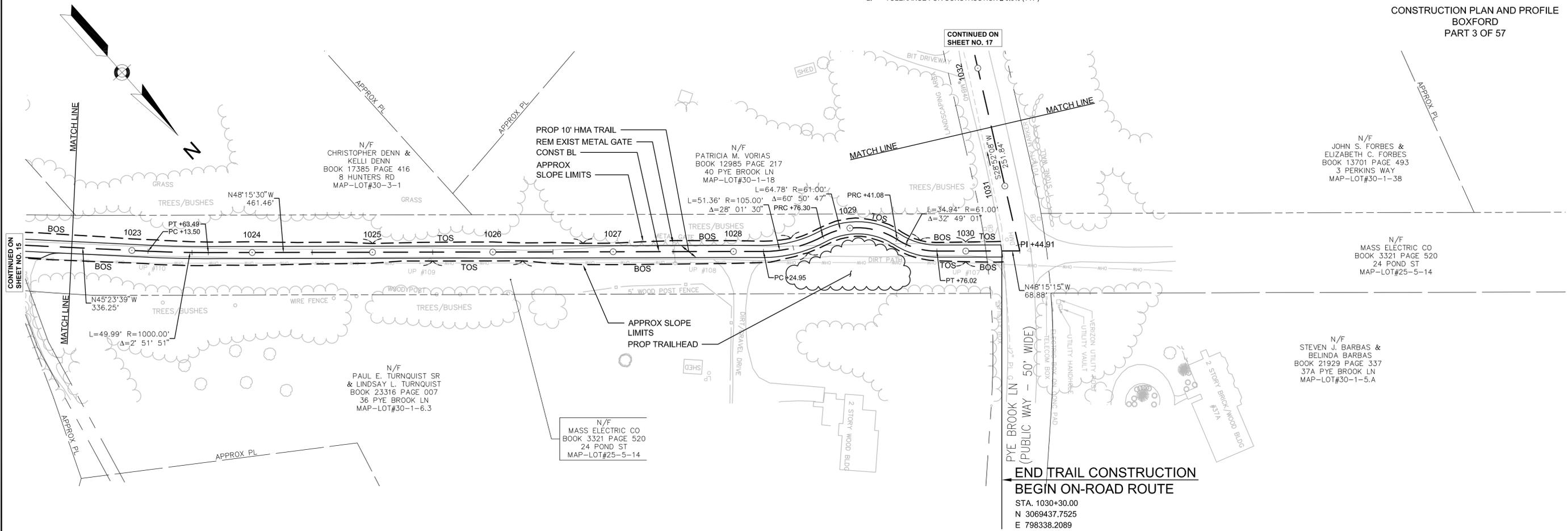
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 15

CONTINUED ON SHEET NO. 17

606020HD CONST PLANS BOXFORD.DWG [BOX 03] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	106
PROJECT FILE NO. 605020			

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 4 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

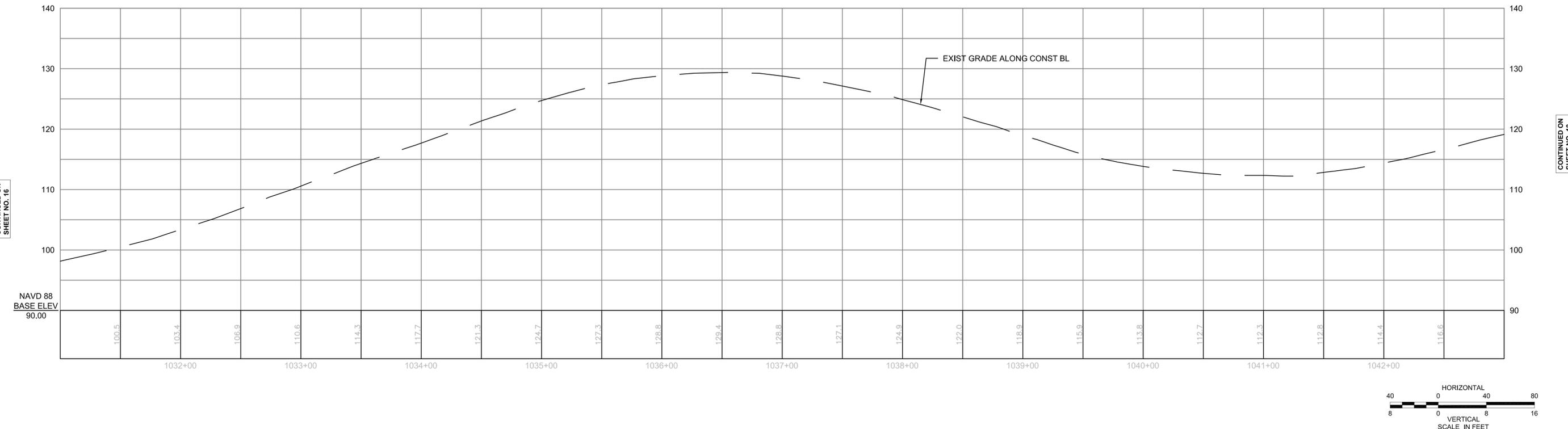
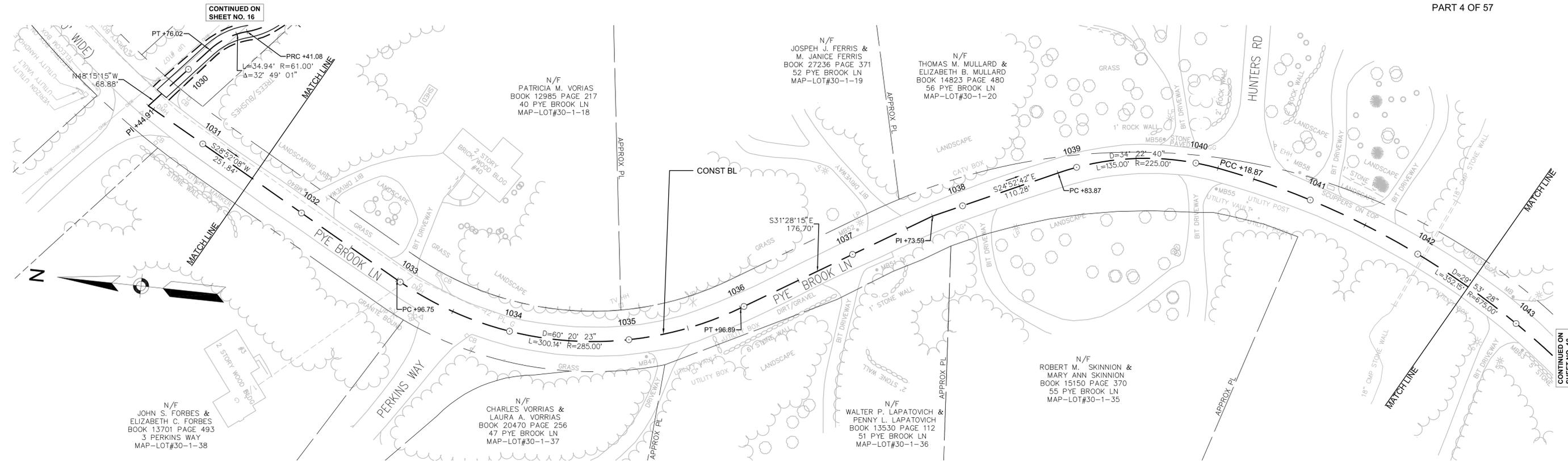
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WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON SHEET NO. 16

CONTINUED ON SHEET NO. 18

606020HD CONST PLANS BOXFORD.DWG [BOX 04] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 5 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

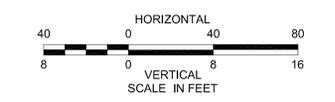
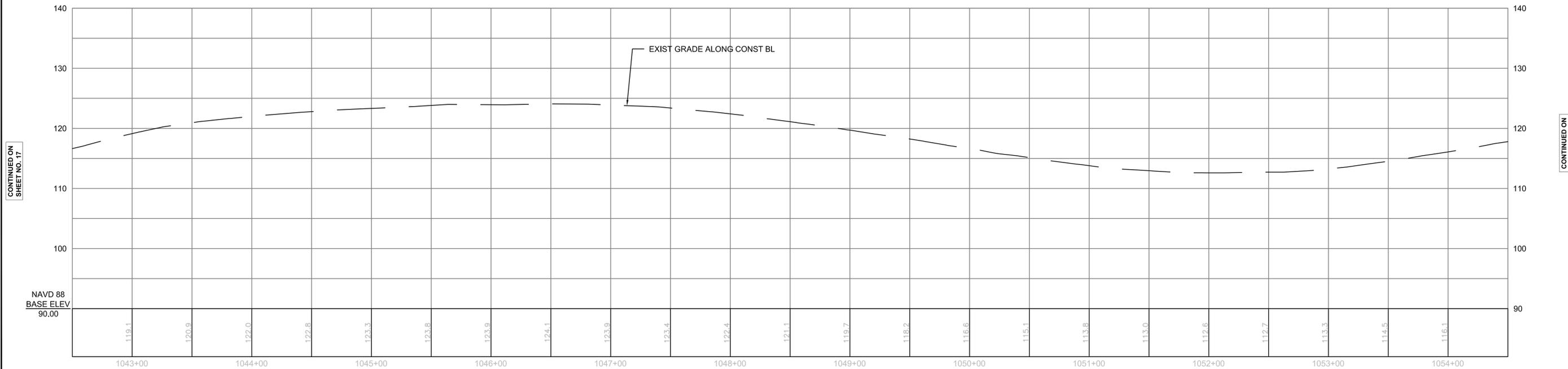
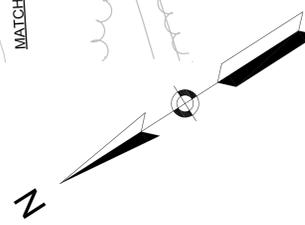
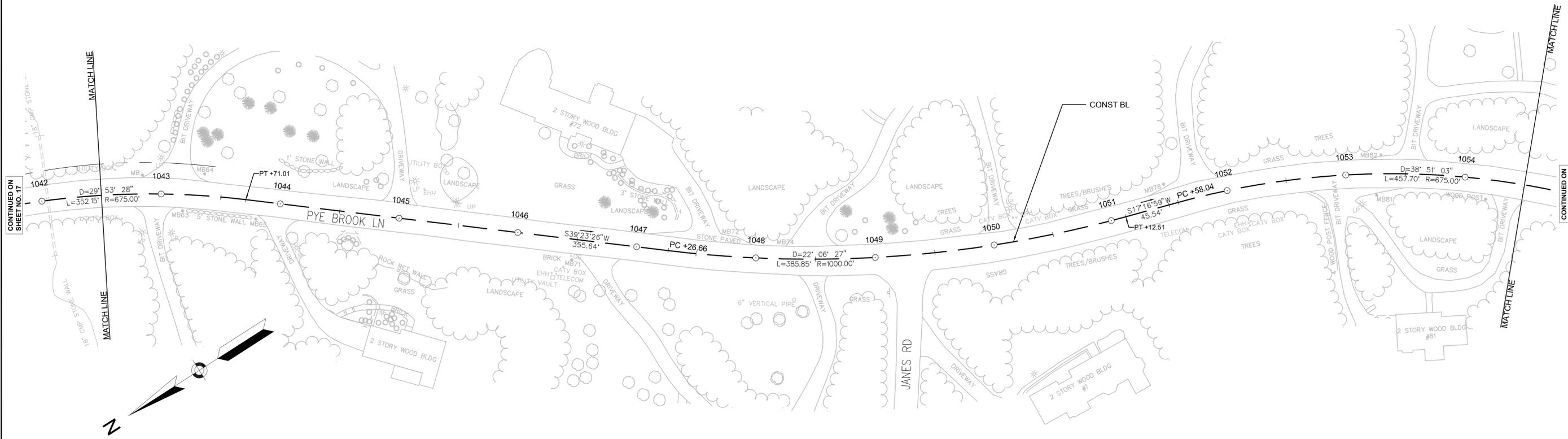
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON SHEET NO. 17

CONTINUED ON SHEET NO. 19

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

END ON-ROAD ROUTE  
BEGIN TRAIL CONSTRUCTION

(MEET EXISTING)  
STA. 1060+02.39  
N 3067025.1823  
E 797216.3548

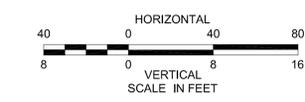
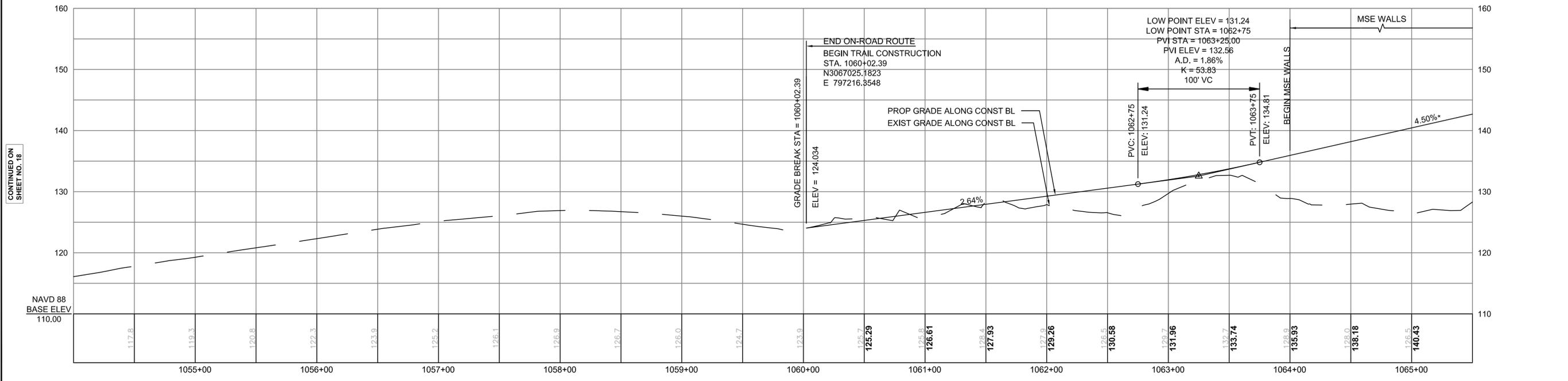
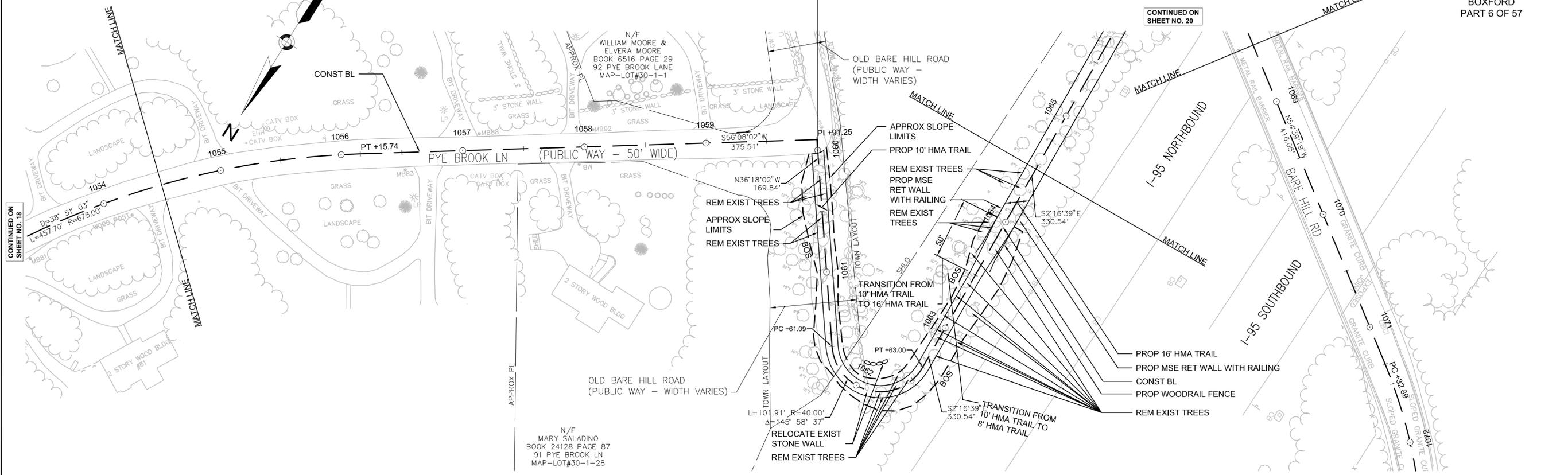
NOTES:

- 1. \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 6 OF 57



CONTINUED ON SHEET NO. 18

CONTINUED ON SHEET NO. 20

CONTINUED ON SHEET NO. 18

CONTINUED ON SHEET NO. 20

606020HD CONST PLANS BOXFORD.DWG [BOX 06] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 7 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

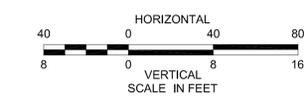
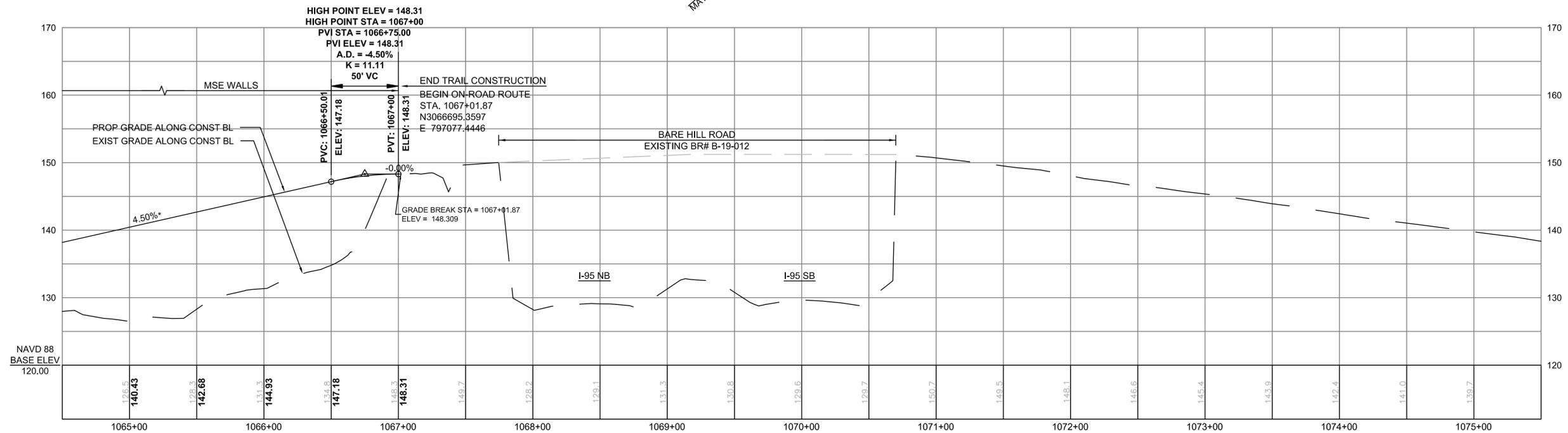
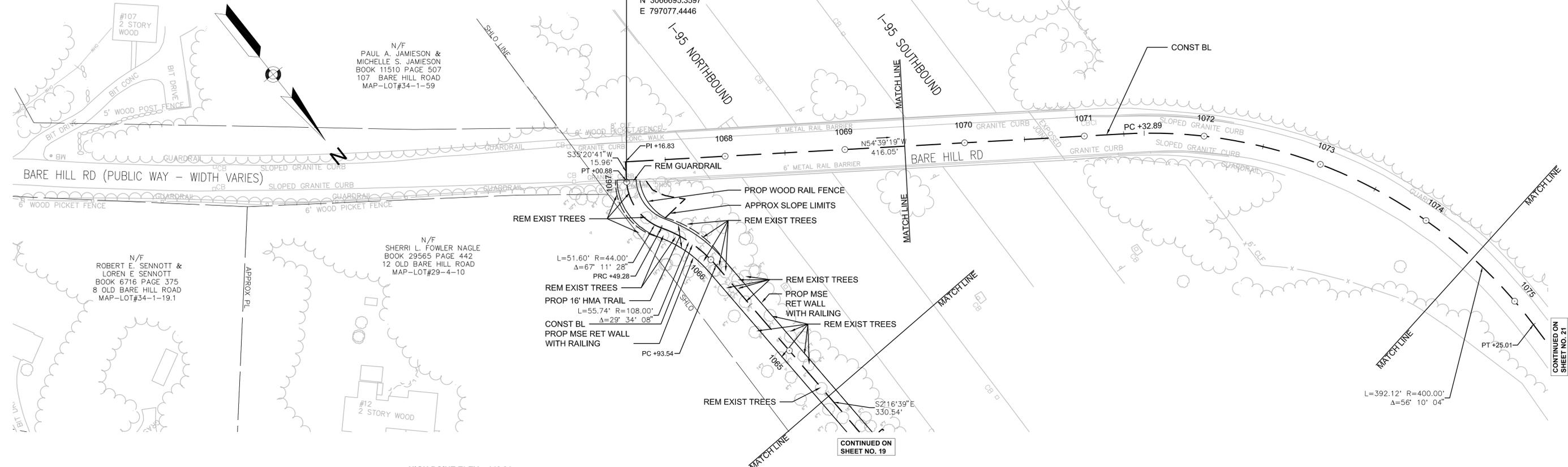
NONE

NOTES:

1. TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

END TRAIL CONSTRUCTION  
BEGIN ON-ROAD ROUTE

(MEET EXISTING)  
STA. 1067+01.87  
N 3066695.3597  
E 797077.4446



CONTINUED ON SHEET NO. 19

CONTINUED ON SHEET NO. 21

606020HD CONST PLANS BOXFORD.DWG [BOX.07] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 8 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

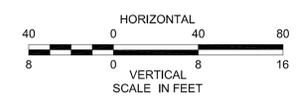
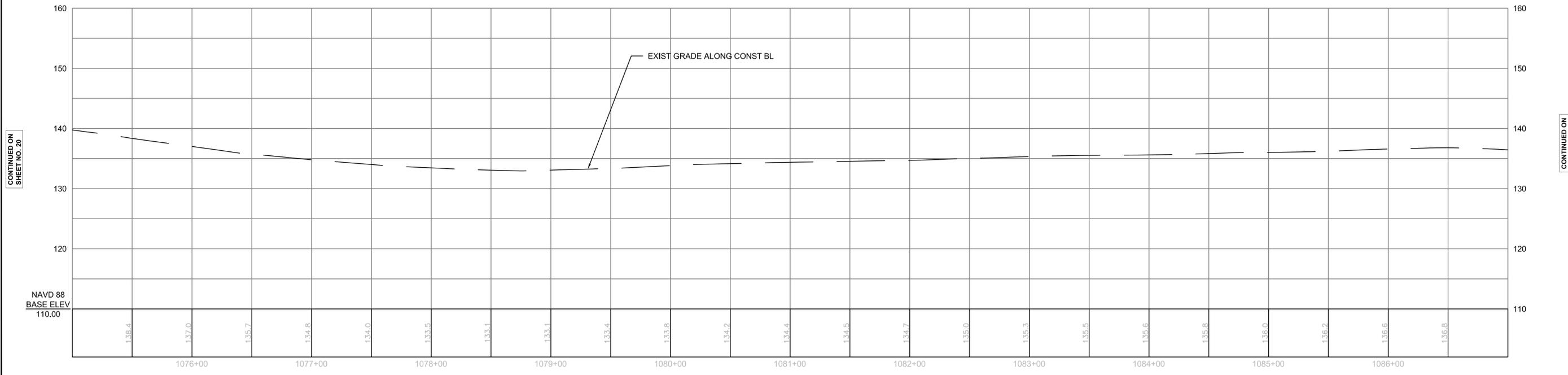
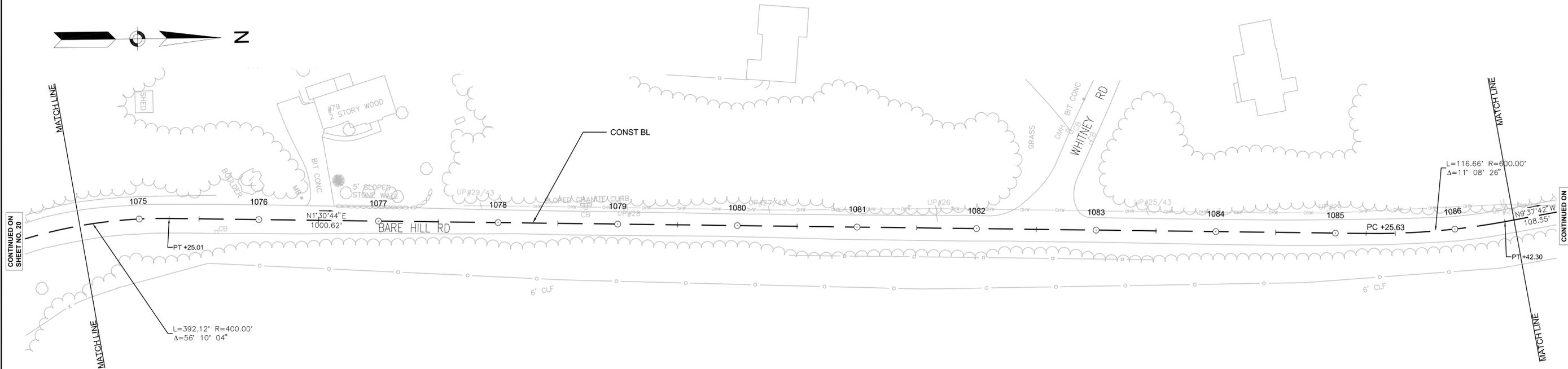
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 20

CONTINUED ON  
SHEET NO. 22

CONTINUED ON  
SHEET NO. 20

CONTINUED ON  
SHEET NO. 22

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 9 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

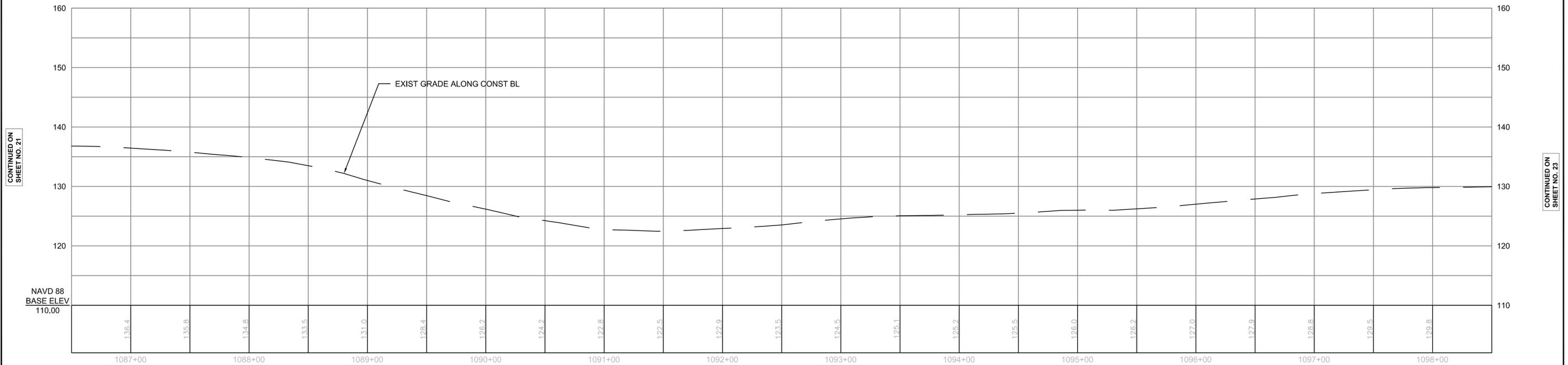
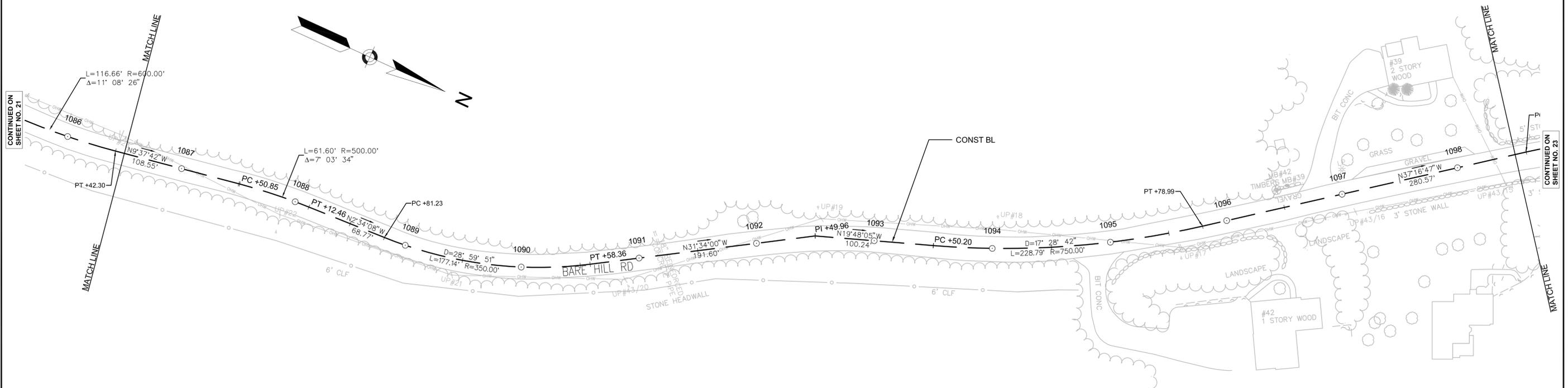
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WATER SUPPLY ALTERATIONS

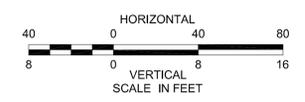
NONE

DRAINAGE DETAILS

NONE



NAVD 88  
BASE ELEV  
110.00



CONTINUED ON  
SHEET NO. 21

CONTINUED ON  
SHEET NO. 21

CONTINUED ON  
SHEET NO. 23

CONTINUED ON  
SHEET NO. 23

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 10 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

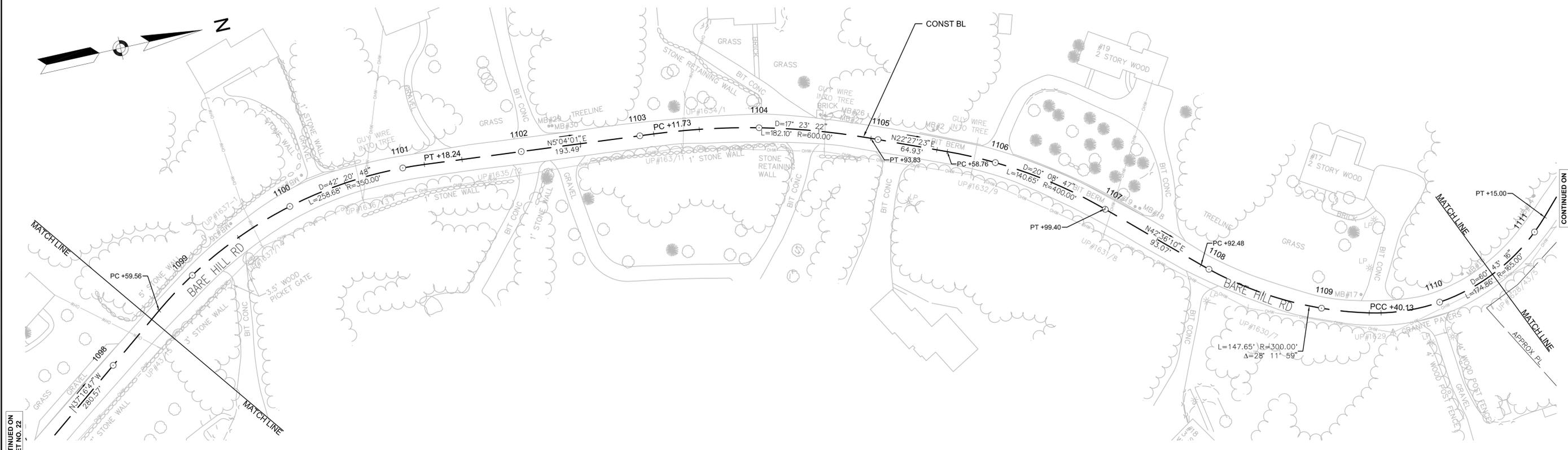
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WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

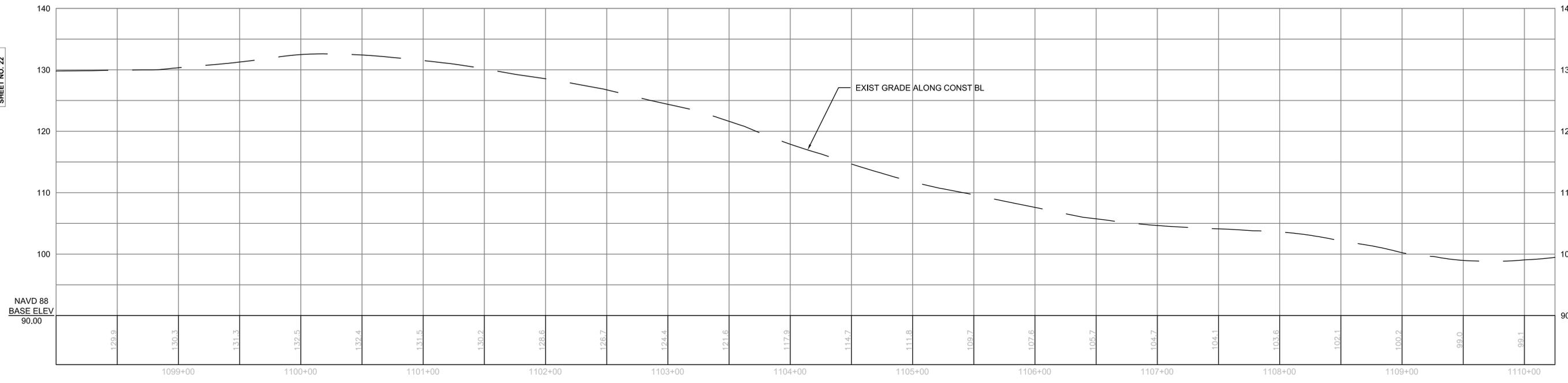


CONTINUED ON  
SHEET NO. 22

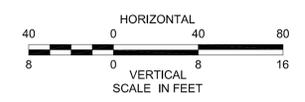
CONTINUED ON  
SHEET NO. 24

CONTINUED ON  
SHEET NO. 22

CONTINUED ON  
SHEET NO. 24



NAVD 88  
BASE ELEV  
90.00



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	24	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 11 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

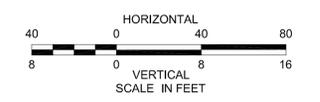
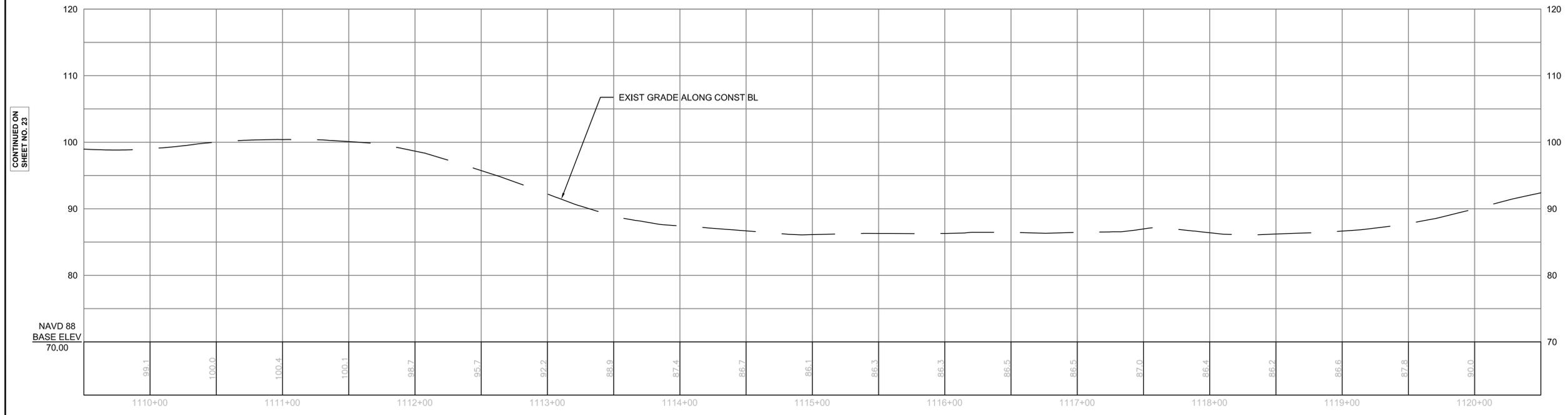
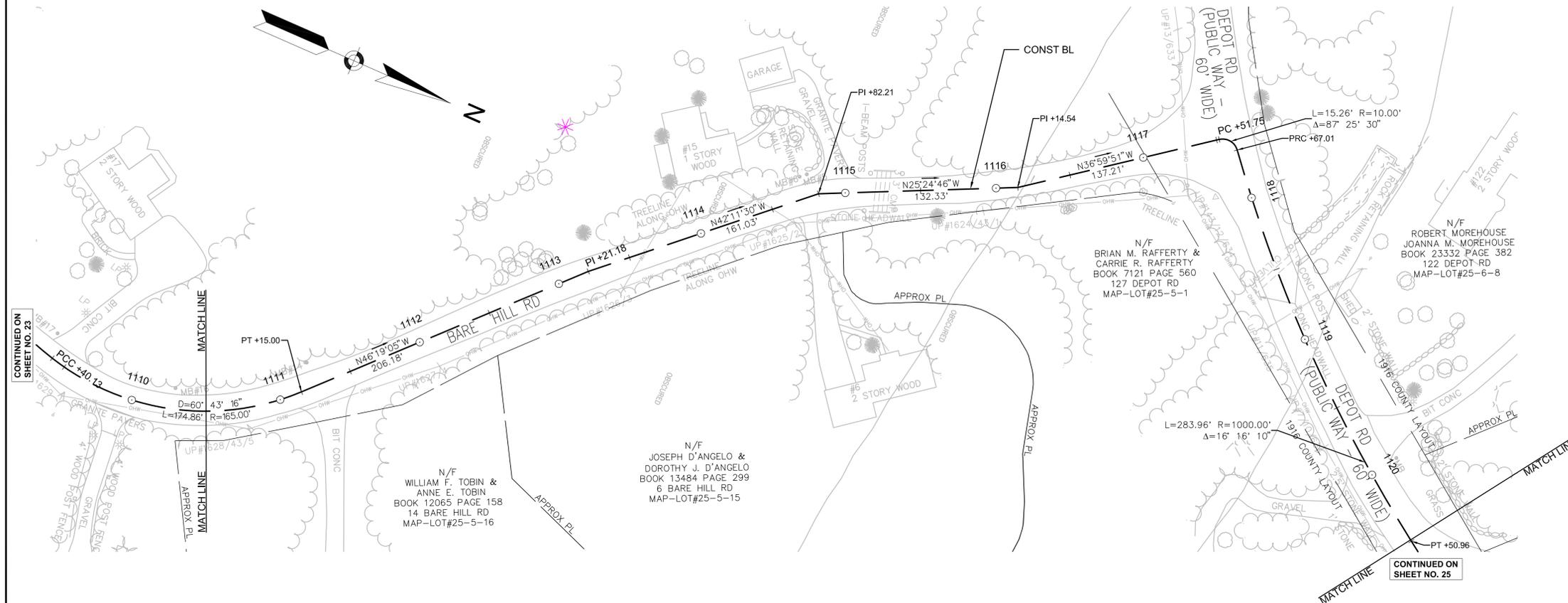
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WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON SHEET NO. 23

CONTINUED ON SHEET NO. 25

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	106
PROJECT FILE NO.		605020	

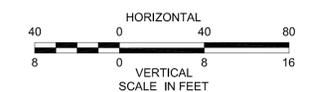
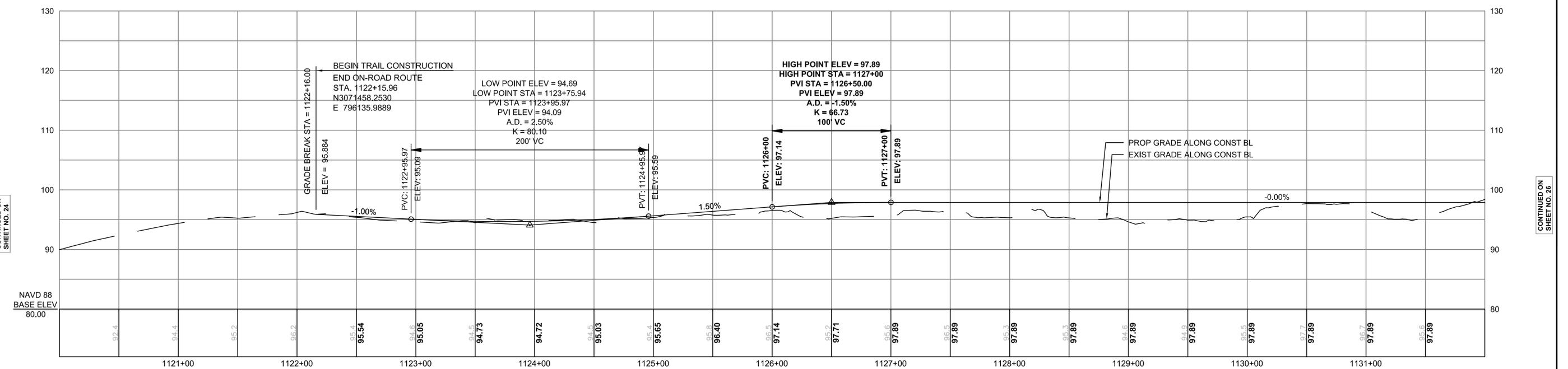
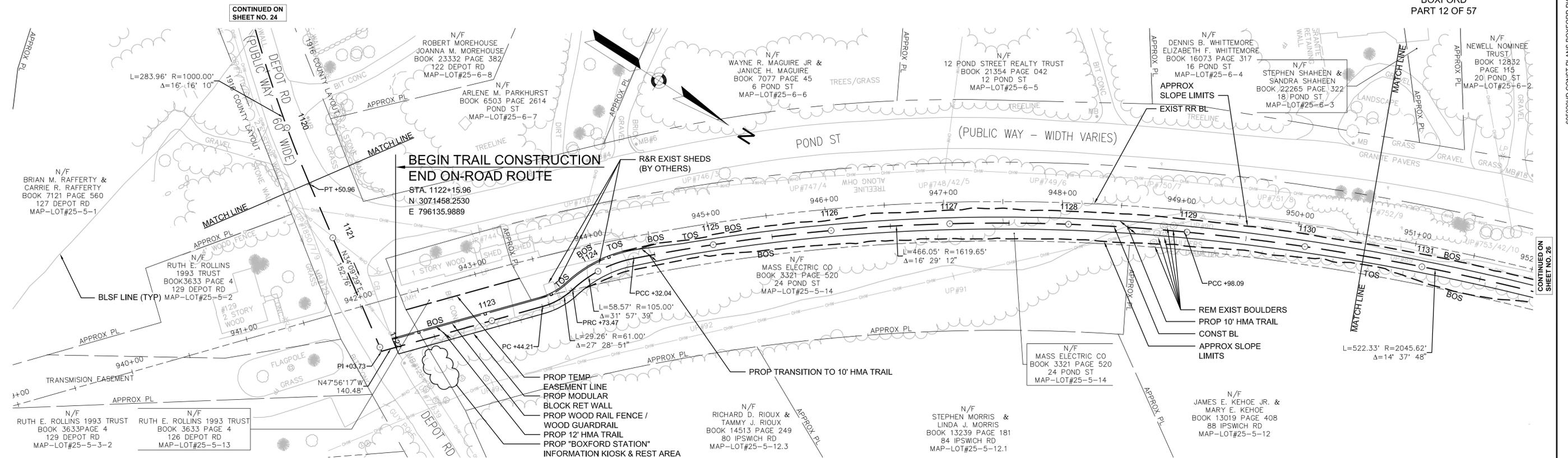
CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 12 OF 57

HIGHWAY GUARD DETAILS      TRAFFIC SIGNAL CONDUIT      WATER SUPPLY ALTERATIONS      DRAINAGE DETAILS

NONE                                  NONE                                  NONE                                  NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 24

CONTINUED ON SHEET NO. 26

606020HD CONST PLANS BOXFORD.DWG [BOX 12] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 13 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

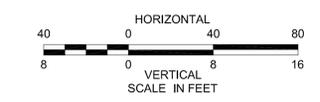
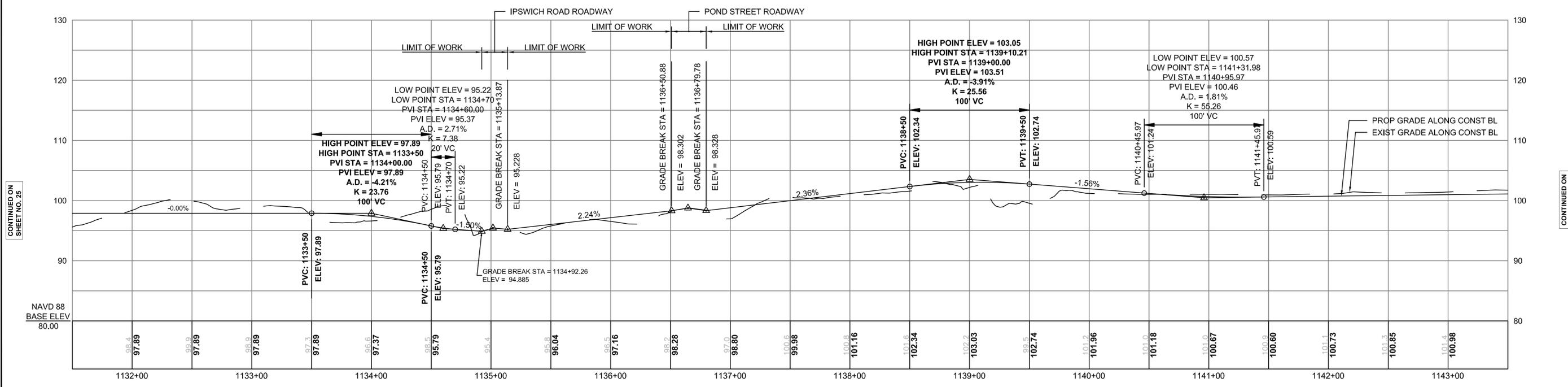
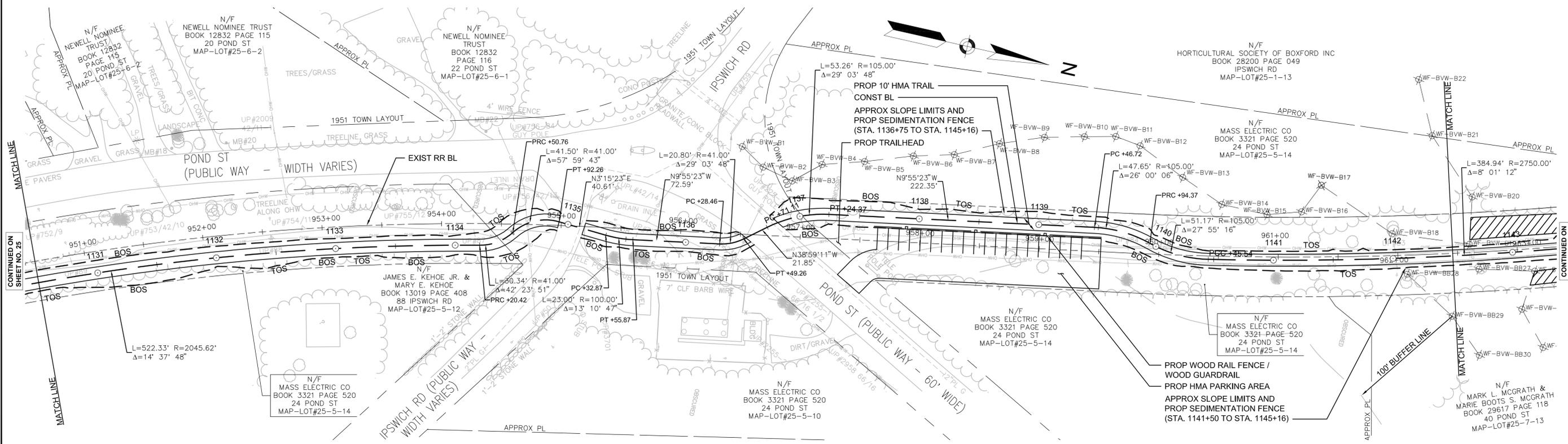
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON  
SHEET NO. 25

CONTINUED ON  
SHEET NO. 27

606020HD CONST PLANS BOXFORD.DWG [BOX 13] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 14 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

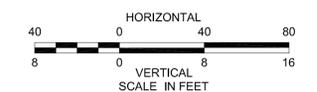
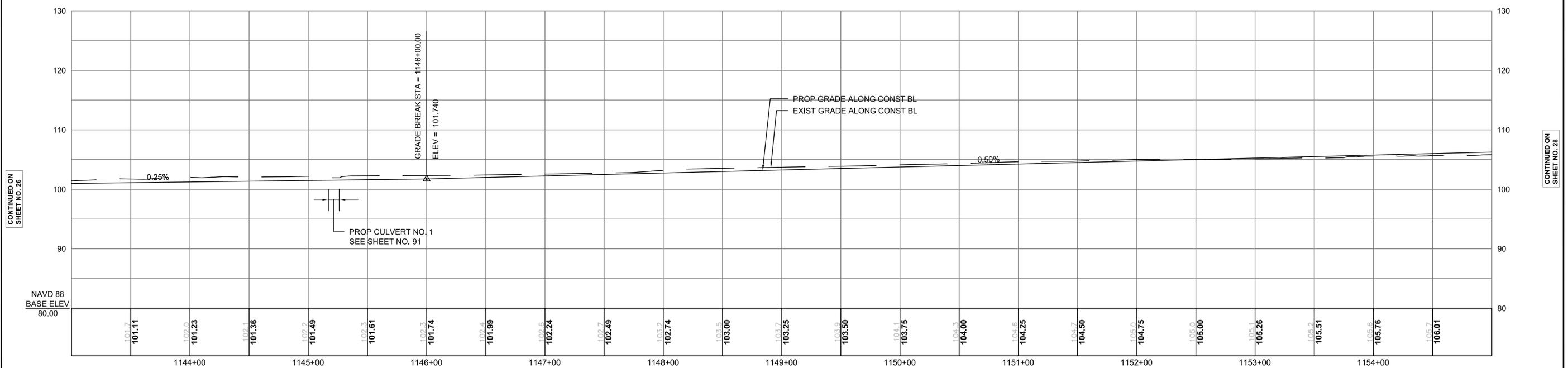
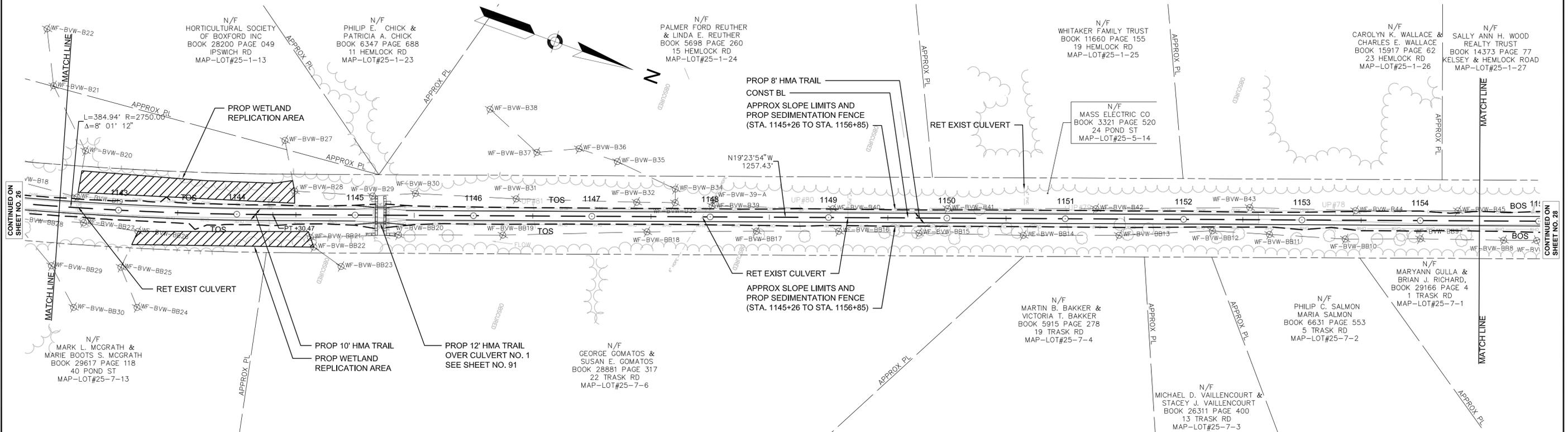
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 26

CONTINUED ON SHEET NO. 26

CONTINUED ON SHEET NO. 28

CONTINUED ON SHEET NO. 28

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 15 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

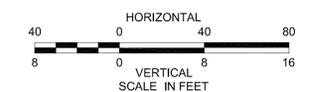
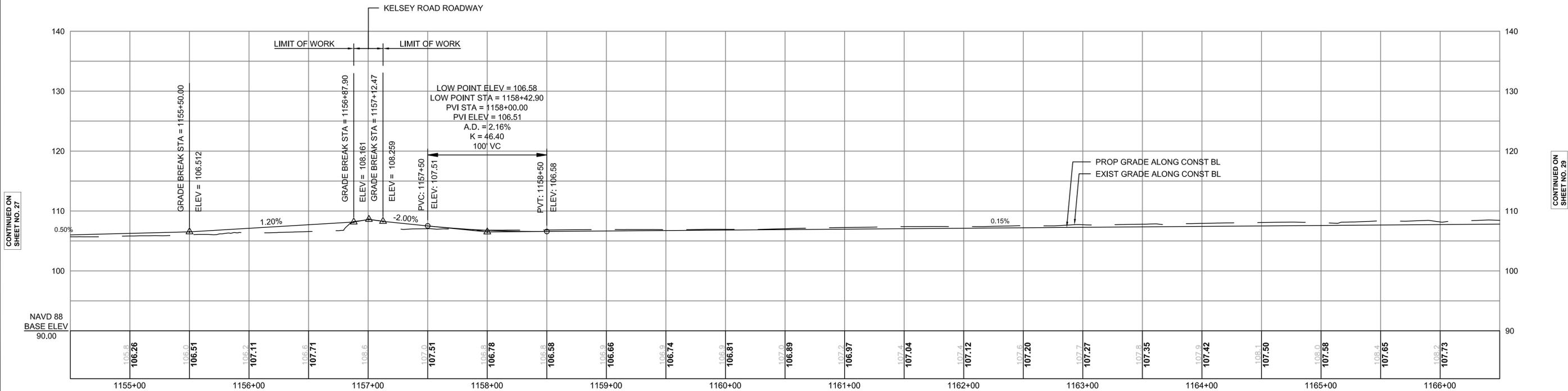
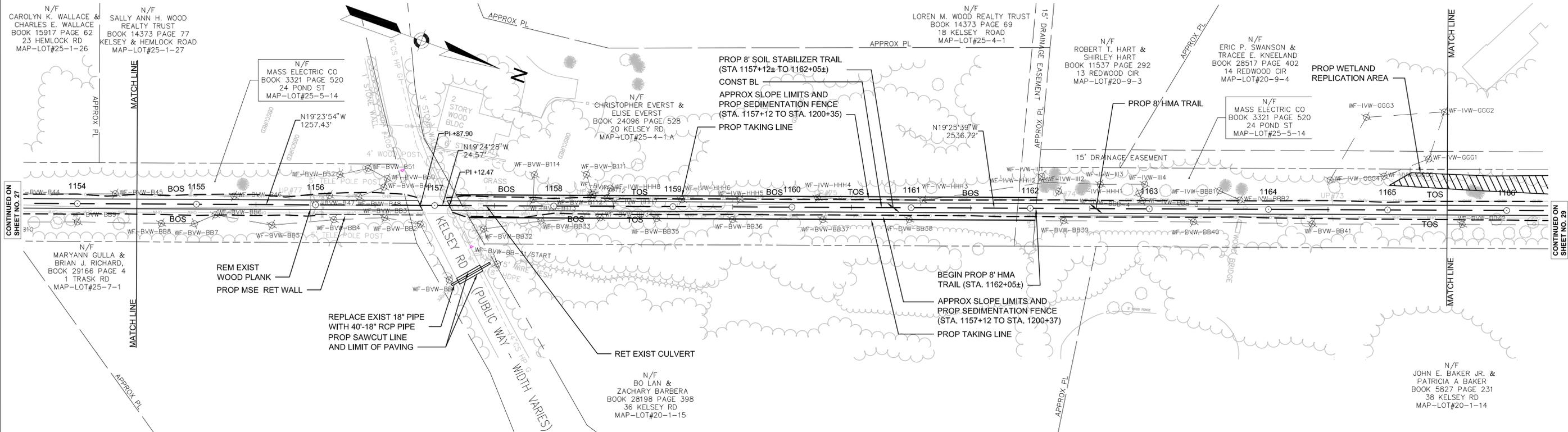
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 27

CONTINUED ON SHEET NO. 29

CONTINUED ON SHEET NO. 27

CONTINUED ON SHEET NO. 29

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 16 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

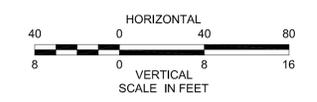
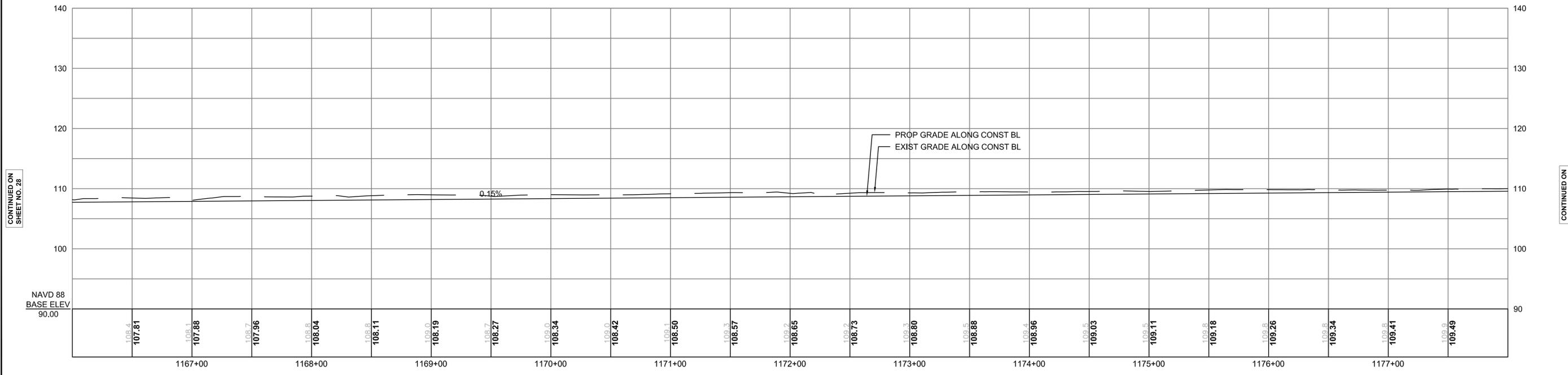
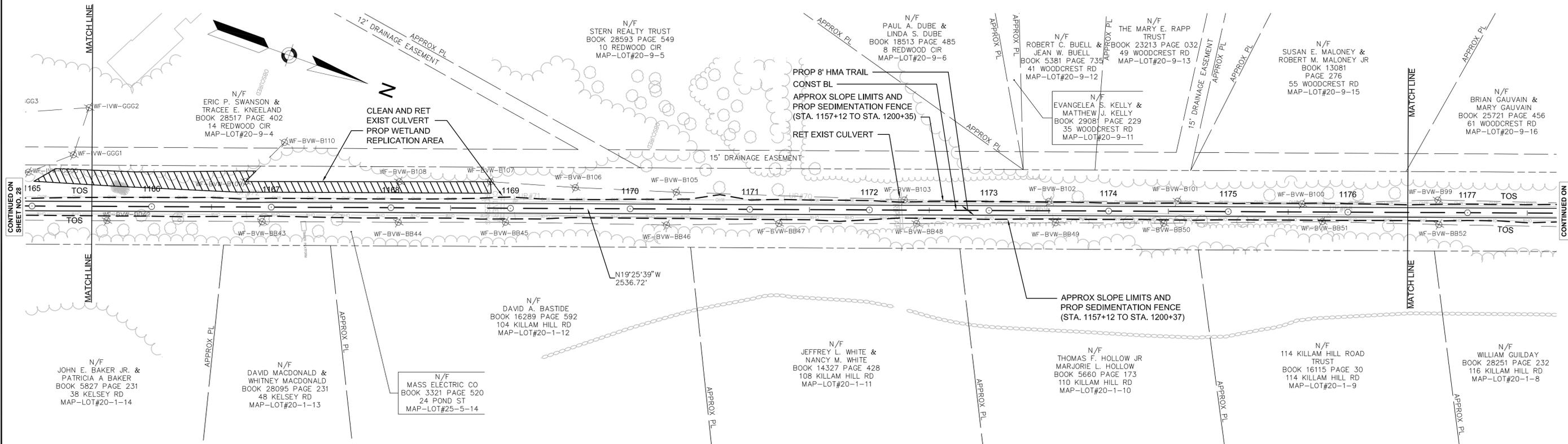
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON  
SHEET NO. 28

CONTINUED ON  
SHEET NO. 30

606020HD CONST PLANS BOXFORD.DWG [BOX 16] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 17 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

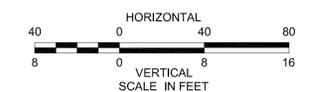
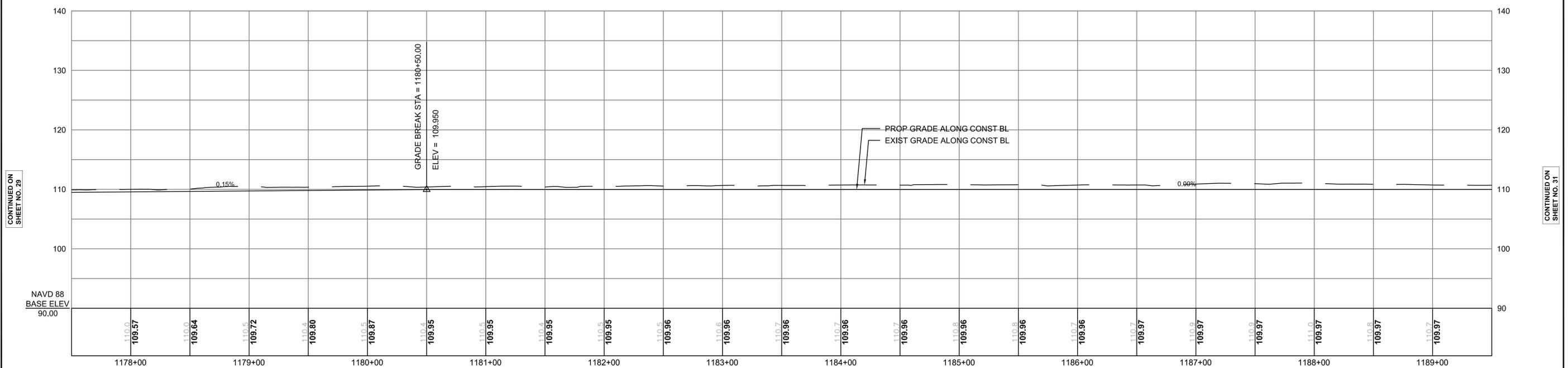
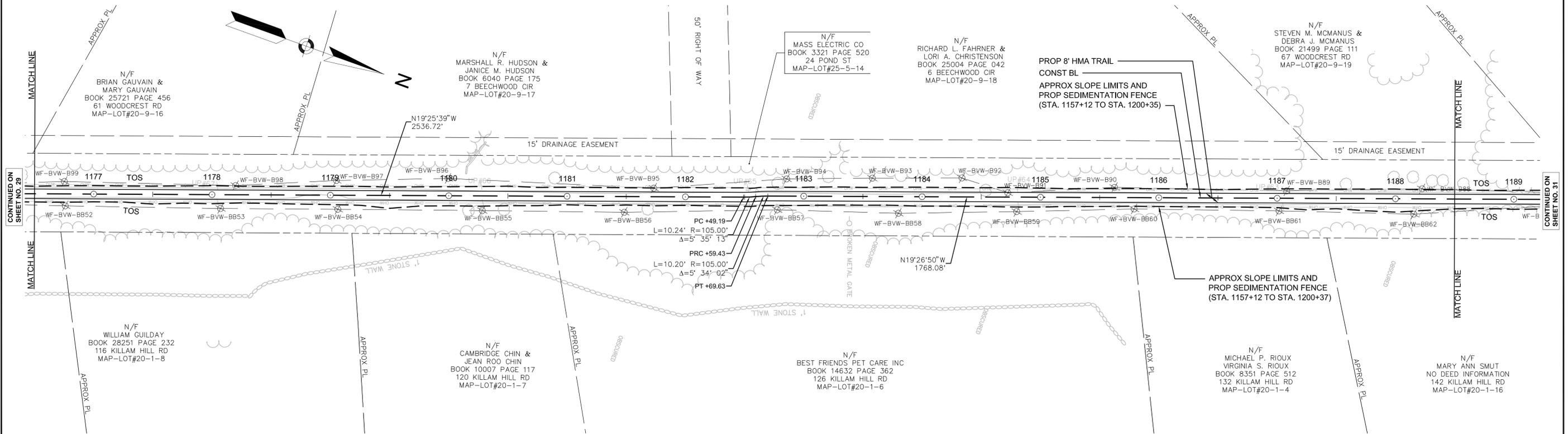
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON  
SHEET NO. 29

CONTINUED ON  
SHEET NO. 31

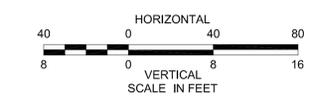
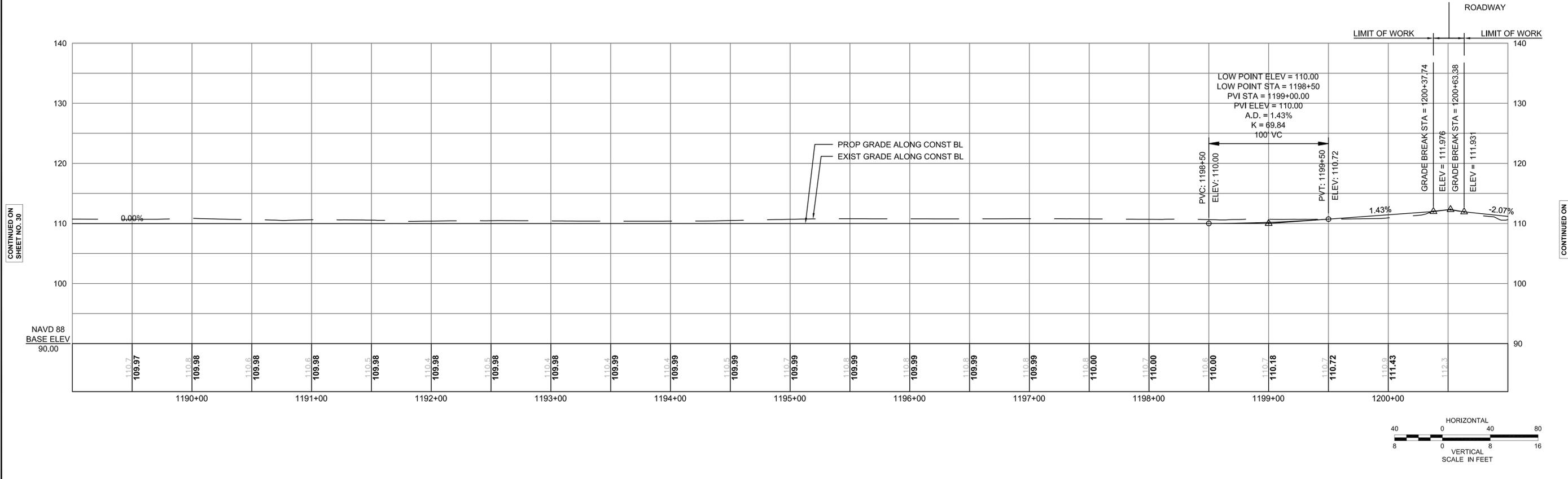
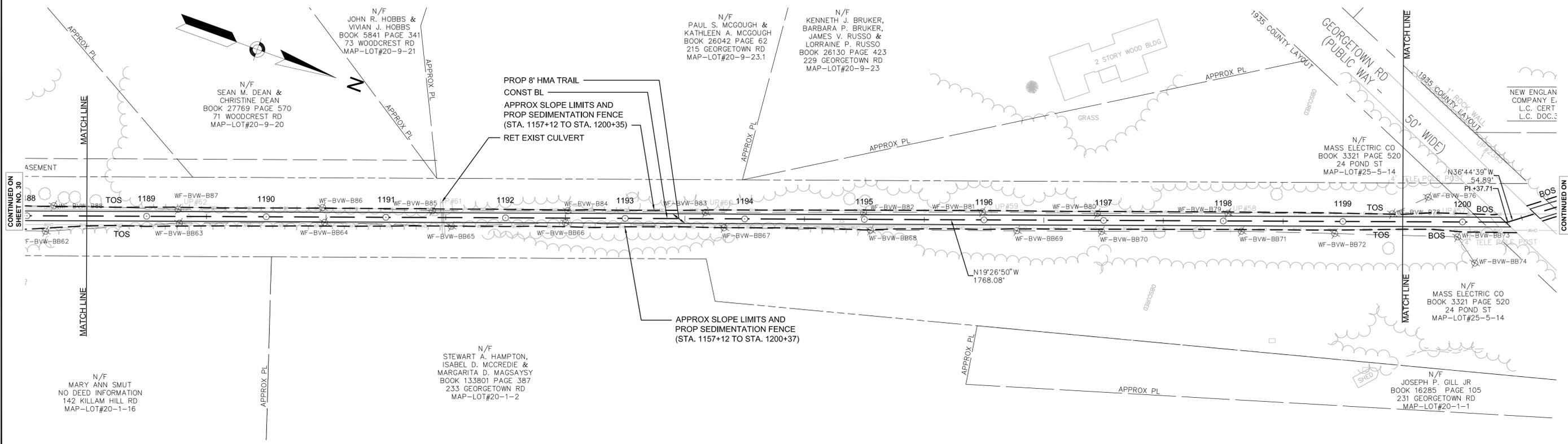
605020.HD CONST PLANS BOXFORD.DWG [BOX 17] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	31	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 18 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 30

CONTINUED ON SHEET NO. 32

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD  
PART 19 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

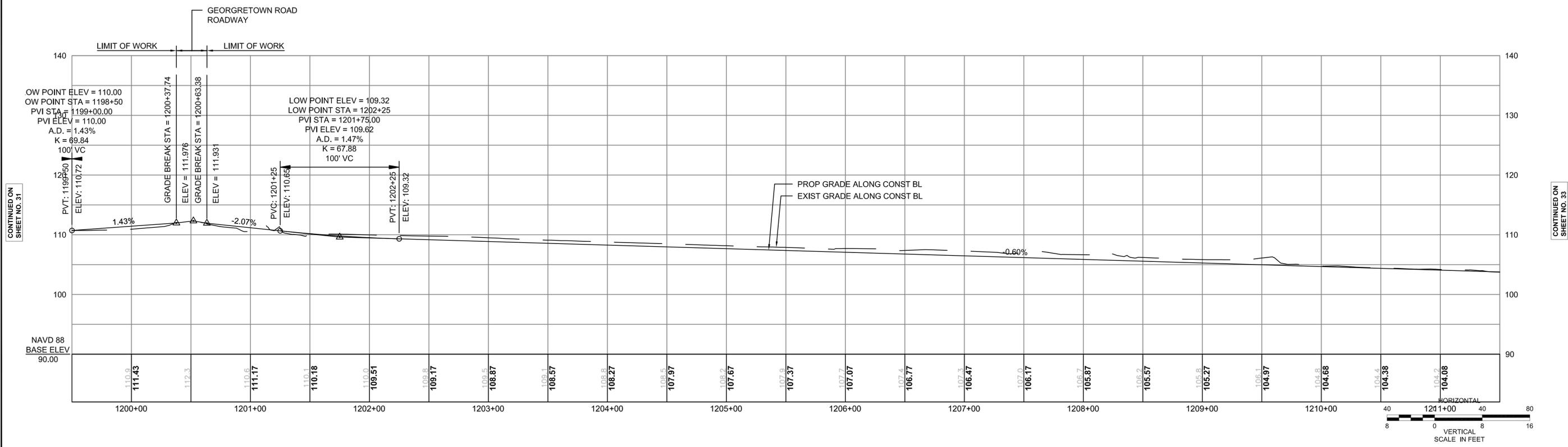
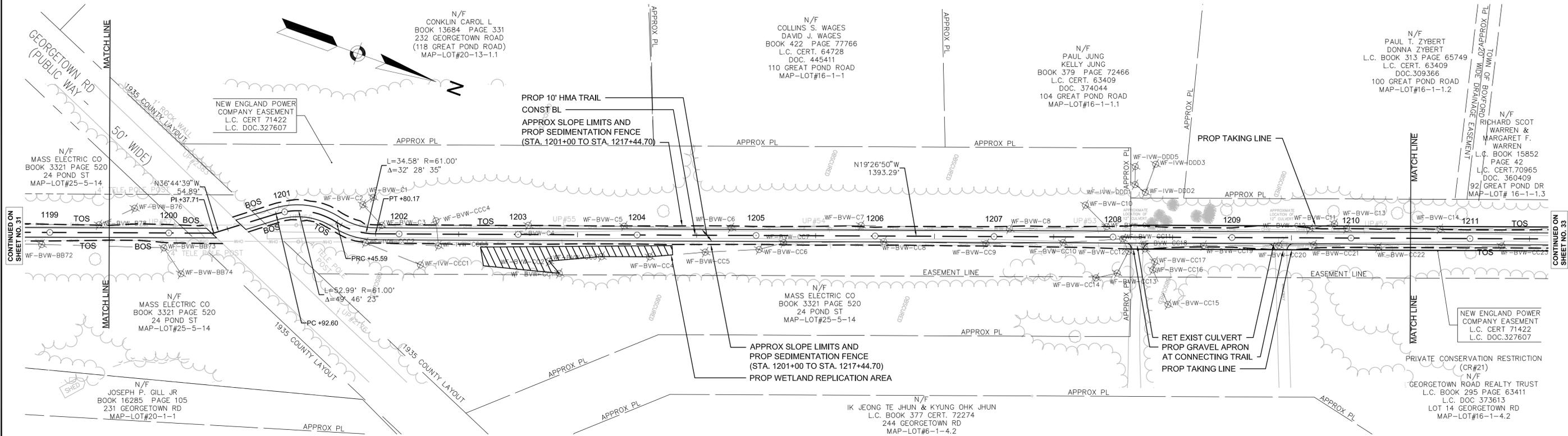
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



605020.HD CONST PLANS BOXFORD.DWG [BOX 19] 2012-Aug-20

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

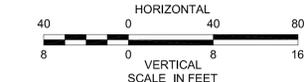
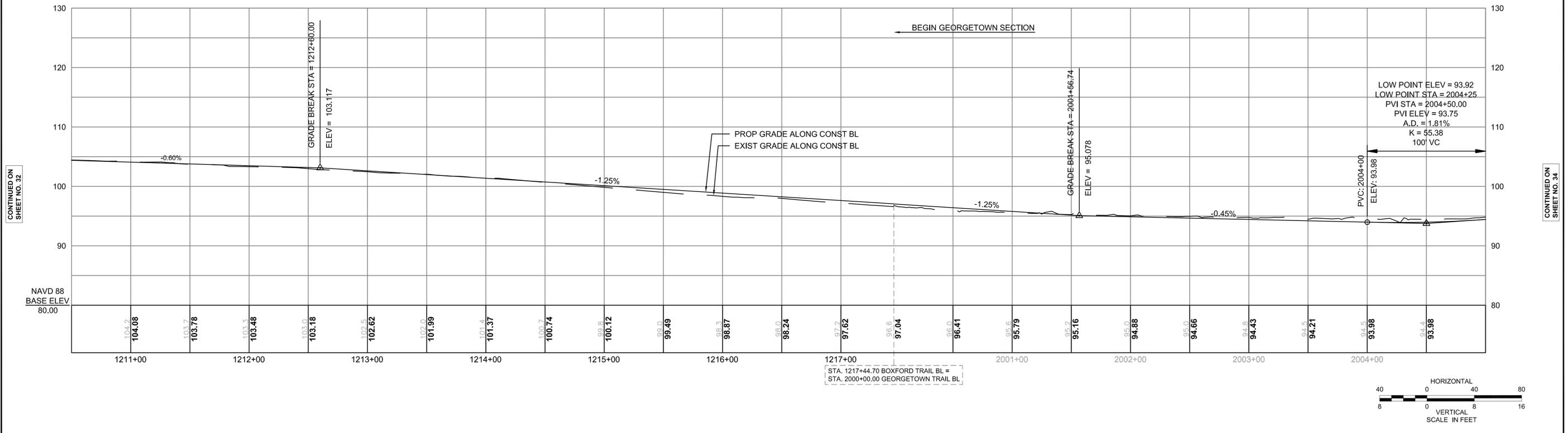
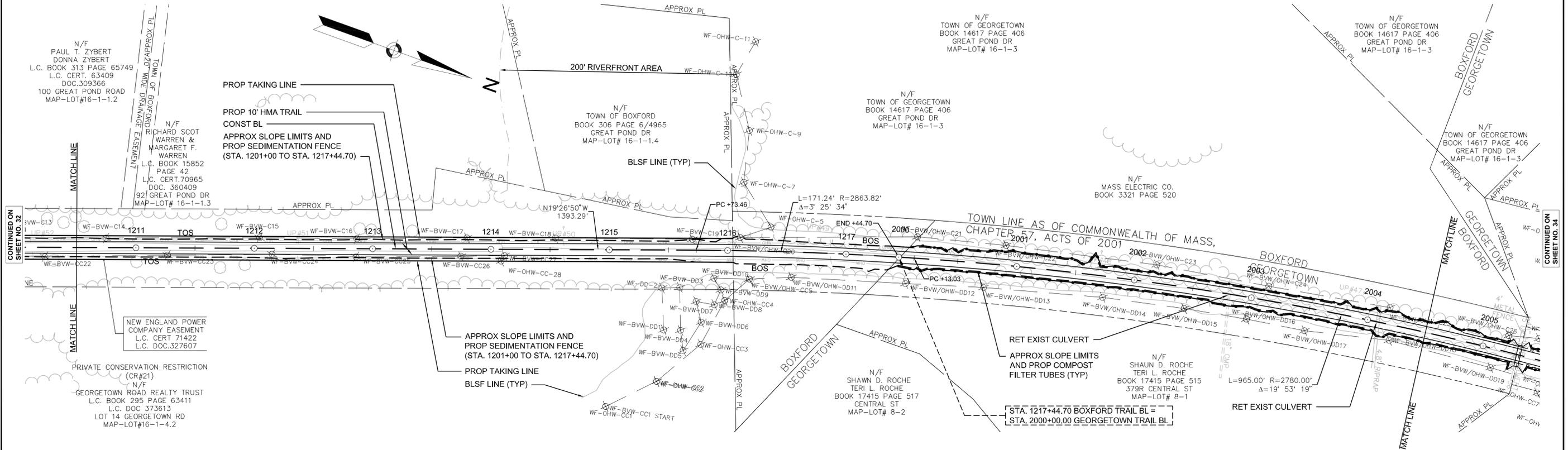
NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
BOXFORD - GEORGETOWN  
PART 20 OF 57



CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 34

CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 34

605020.HD CONST PLANS BOXFORD.DWG [BOX-GEO 20] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 21 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

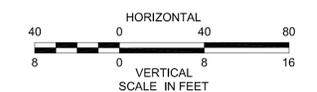
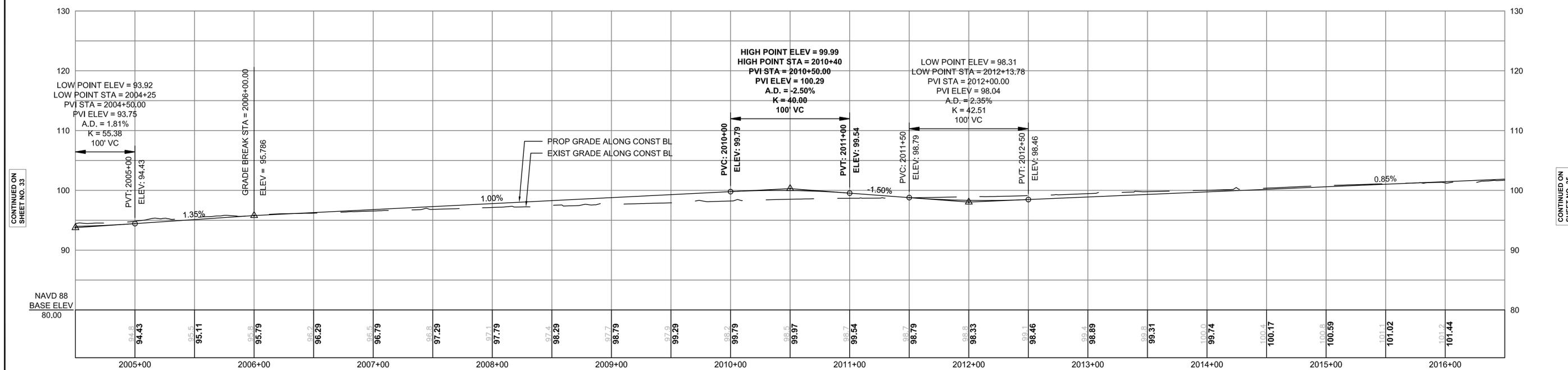
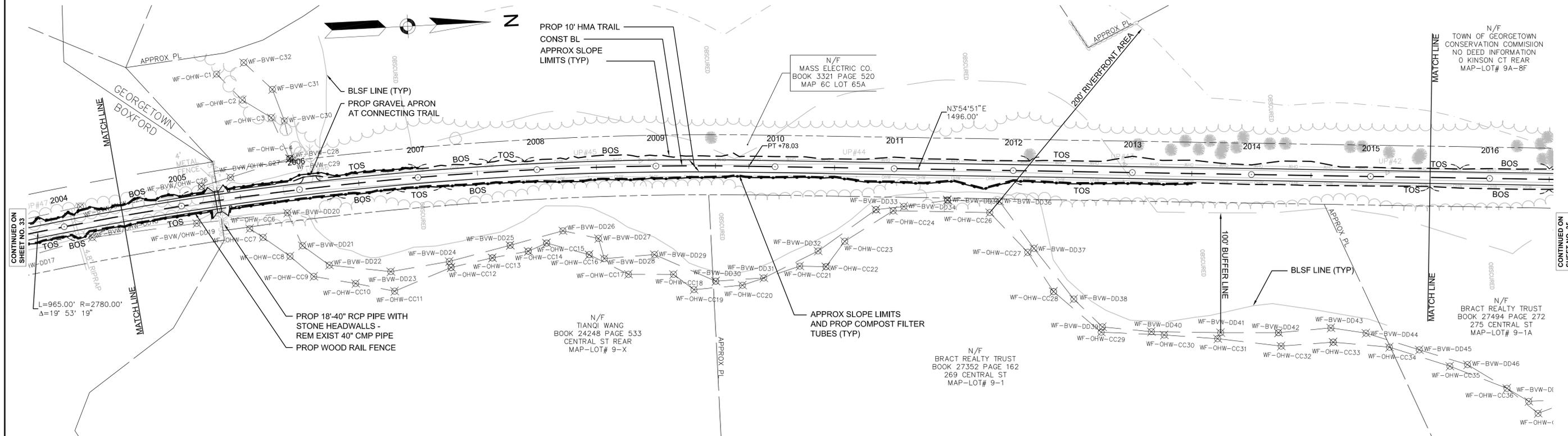
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON  
SHEET NO. 33

CONTINUED ON  
SHEET NO. 35

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

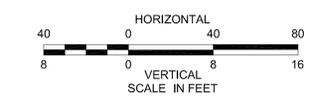
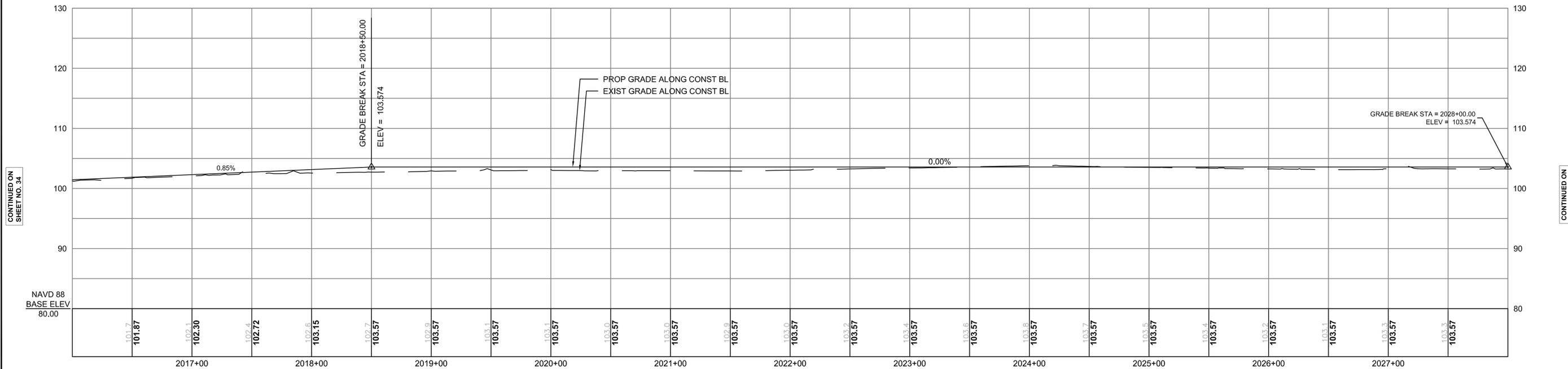
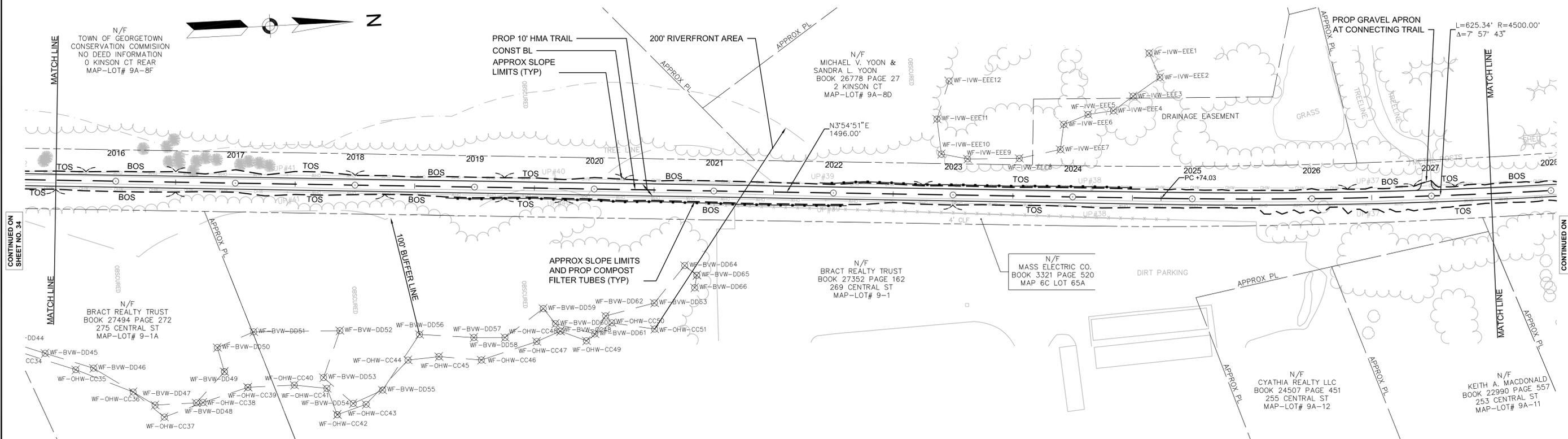
NONE

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 22 OF 57



CONTINUED ON  
SHEET NO. 34

CONTINUED ON  
SHEET NO. 34

CONTINUED ON  
SHEET NO. 36

CONTINUED ON  
SHEET NO. 36

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	36	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 23 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

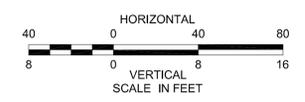
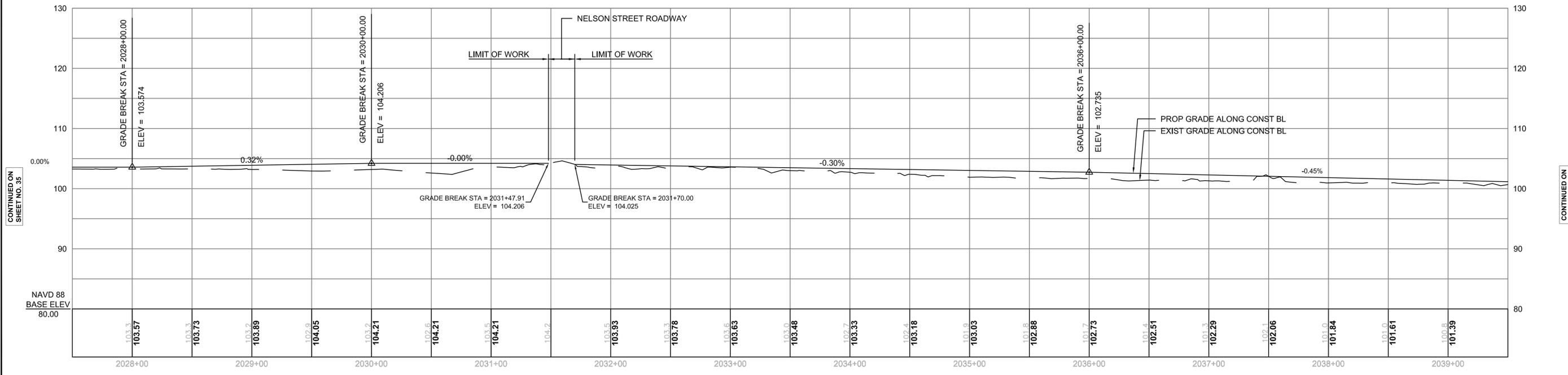
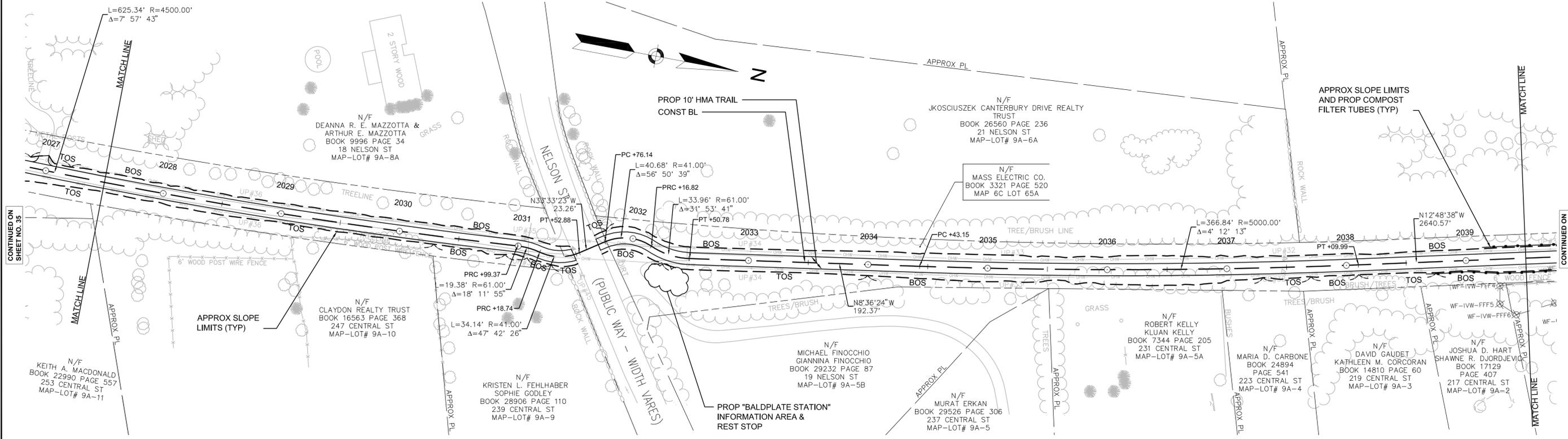
NONE

DRAINAGE DETAILS

NONE

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 35

CONTINUED ON SHEET NO. 37

CONTINUED ON SHEET NO. 35

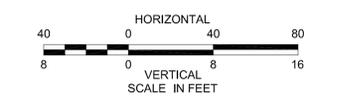
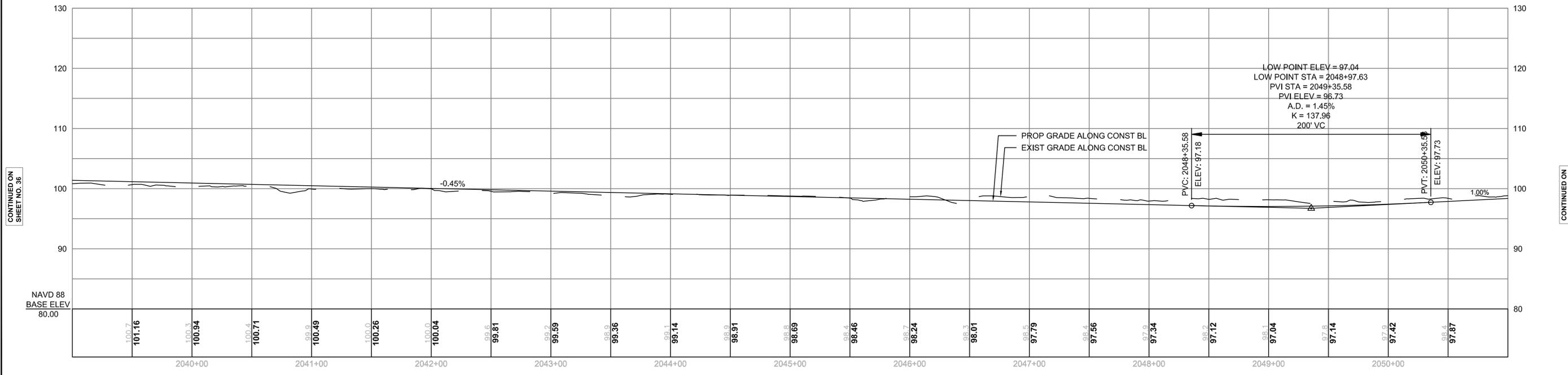
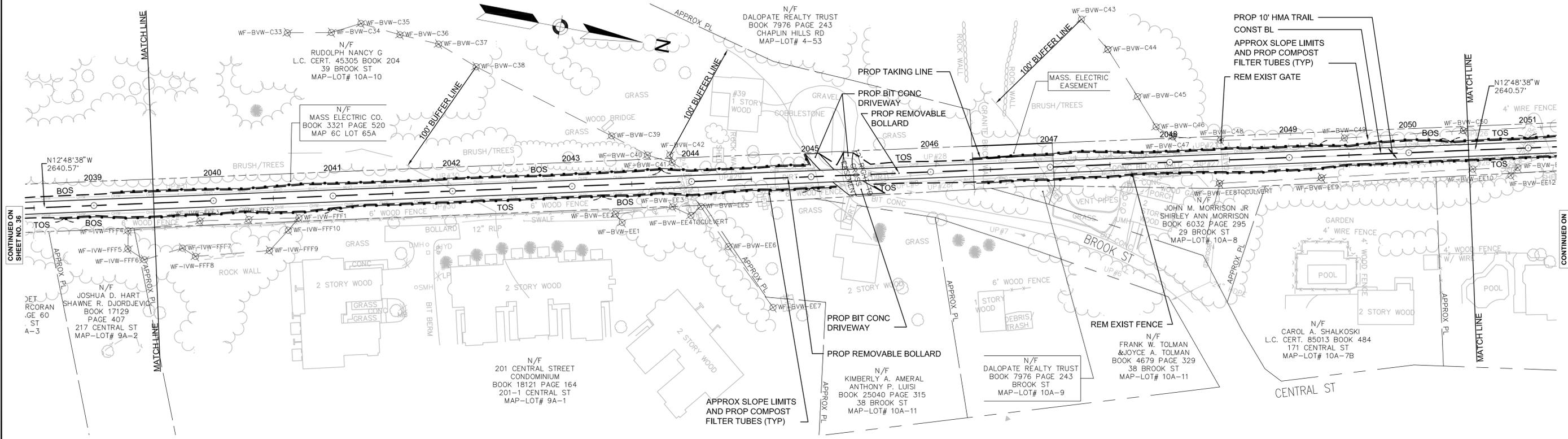
CONTINUED ON SHEET NO. 37

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	37	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 24 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 36

CONTINUED ON SHEET NO. 38

CONTINUED ON SHEET NO. 36

CONTINUED ON SHEET NO. 38

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 25 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

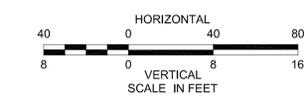
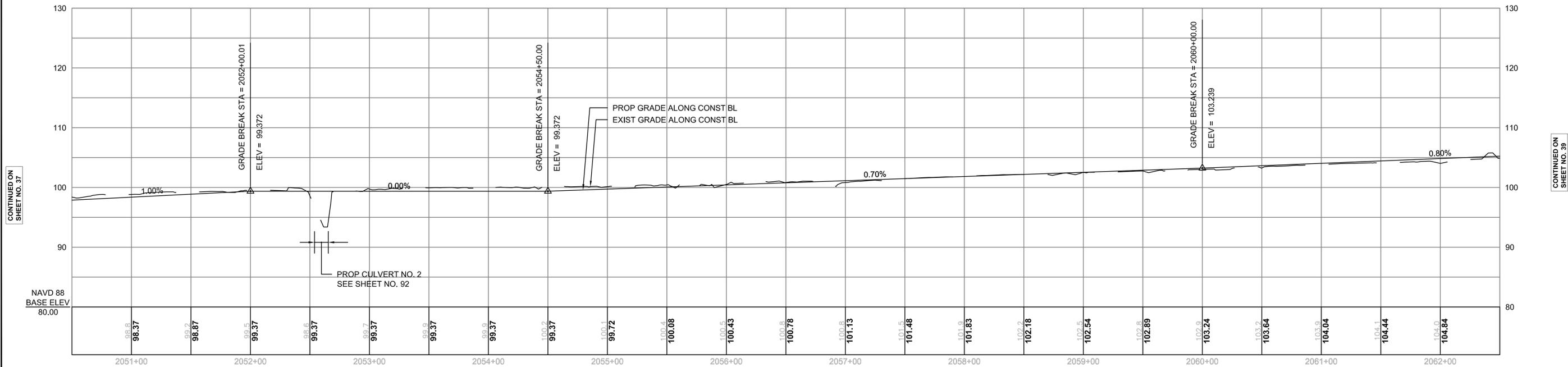
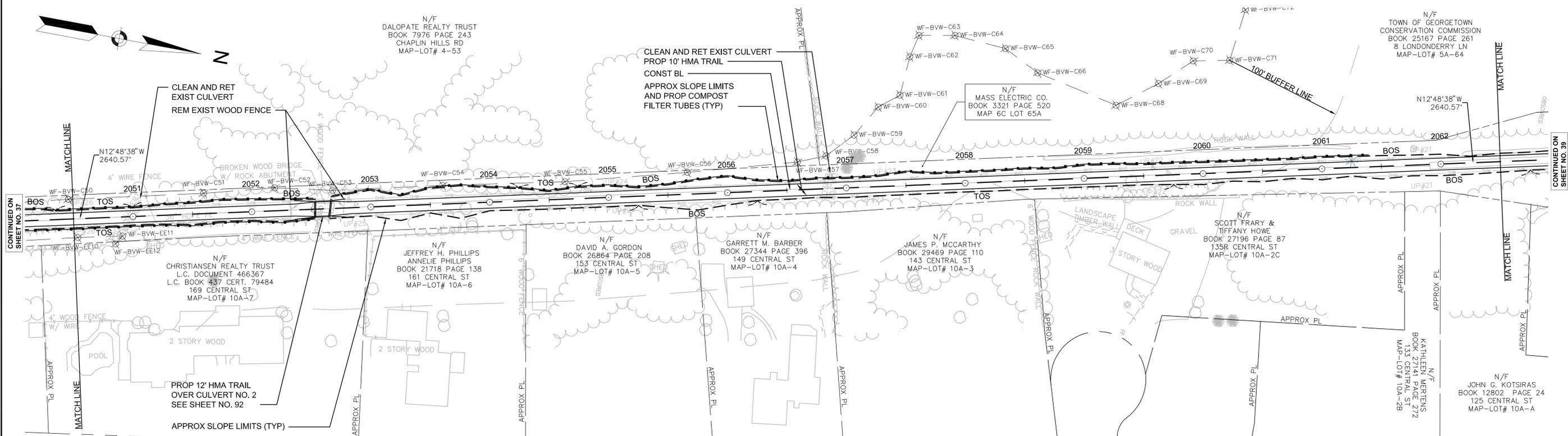
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 37

CONTINUED ON SHEET NO. 39

CONTINUED ON SHEET NO. 37

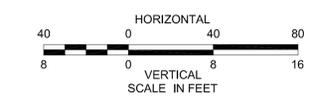
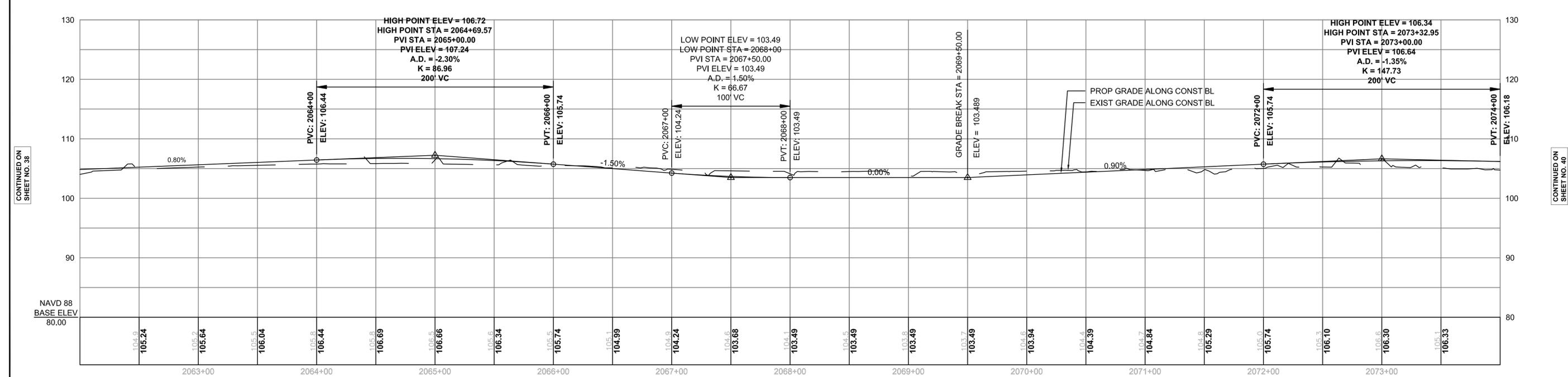
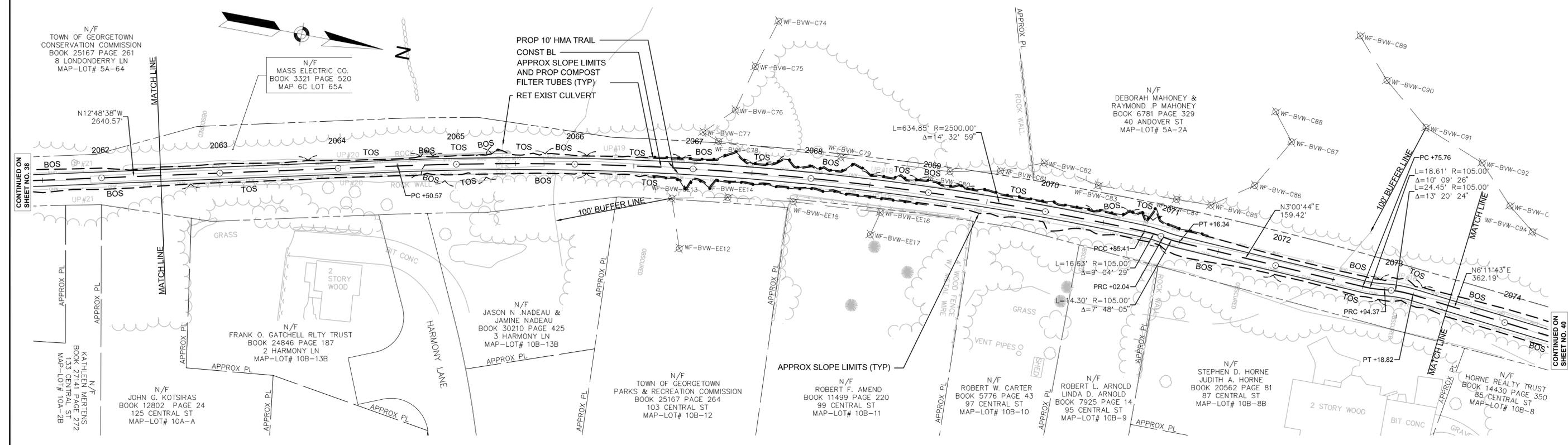
CONTINUED ON SHEET NO. 39

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	39	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 26 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON  
SHEET NO. 38

CONTINUED ON  
SHEET NO. 40

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

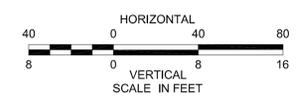
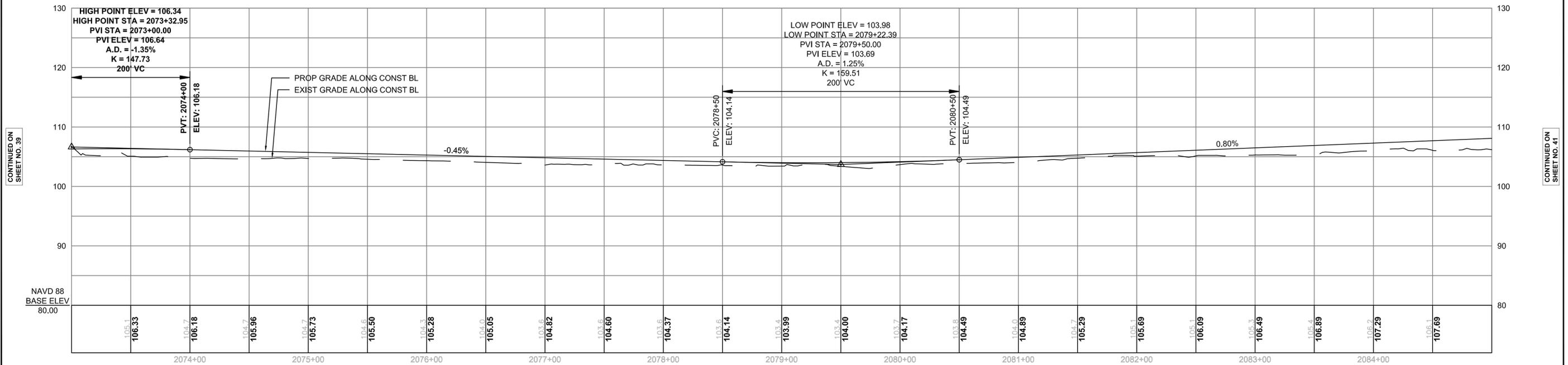
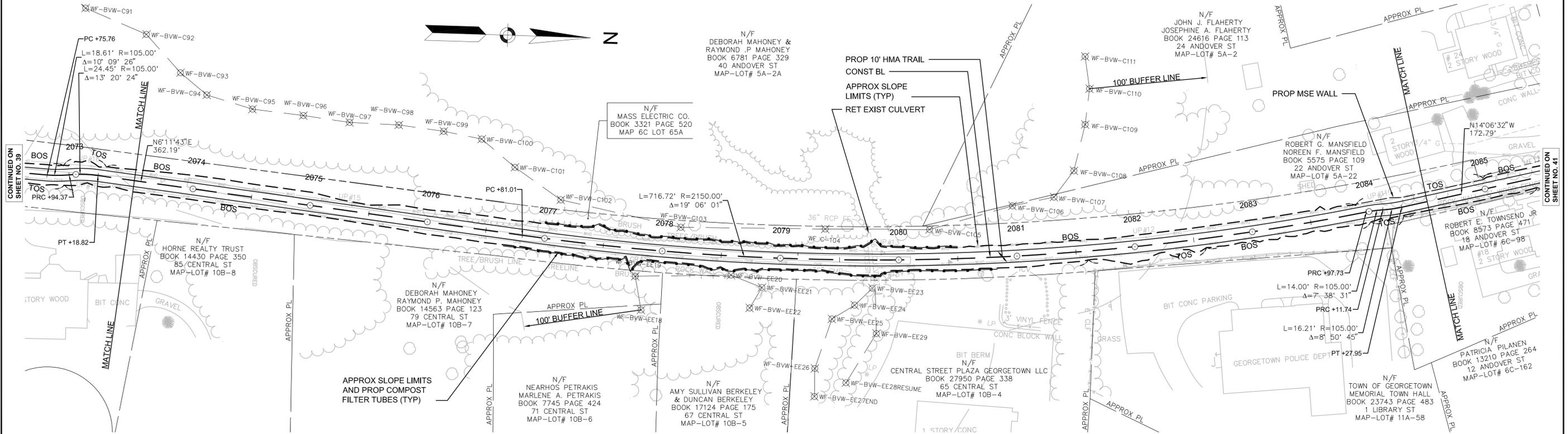
NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	40	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 27 OF 57



CONTINUED ON SHEET NO. 39

CONTINUED ON SHEET NO. 41

605020.DWG CONST PLANS GEORGETOWN.DWG [GEO 27] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	41	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 28 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET NO. 87

WATER SUPPLY ALTERATIONS

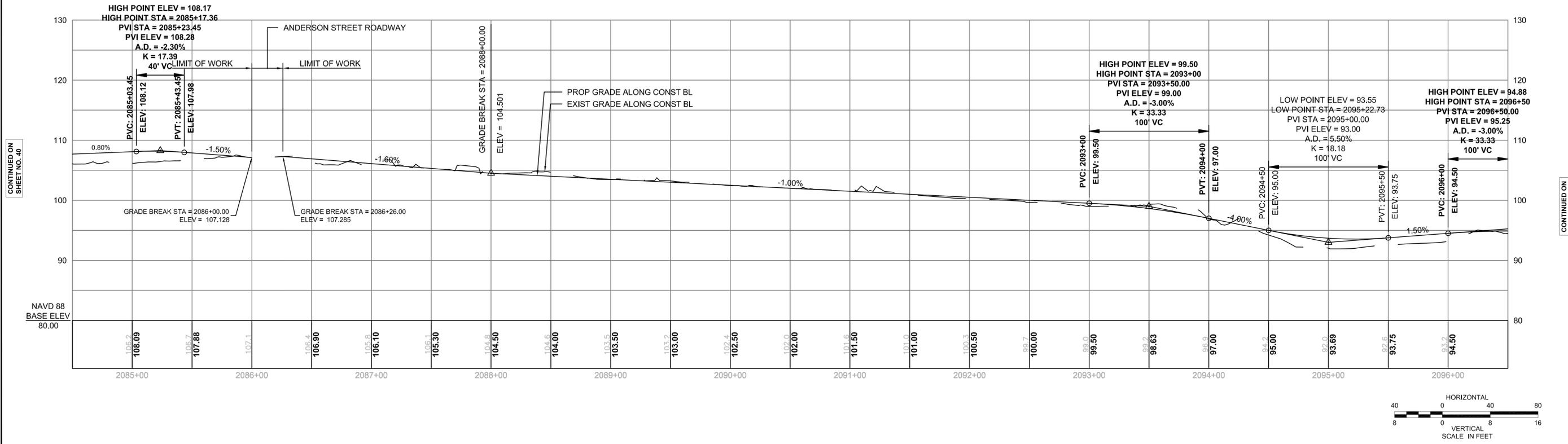
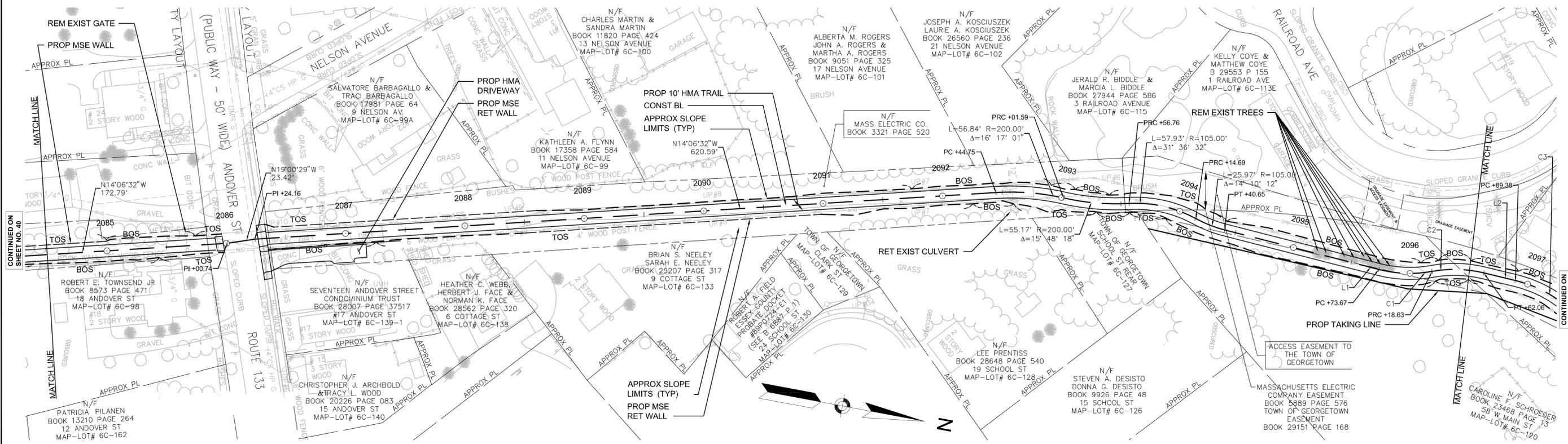
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 40

CONTINUED ON SHEET NO. 42

CONTINUED ON SHEET NO. 40

CONTINUED ON SHEET NO. 42

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 29 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET NO. 88

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

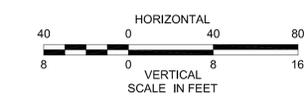
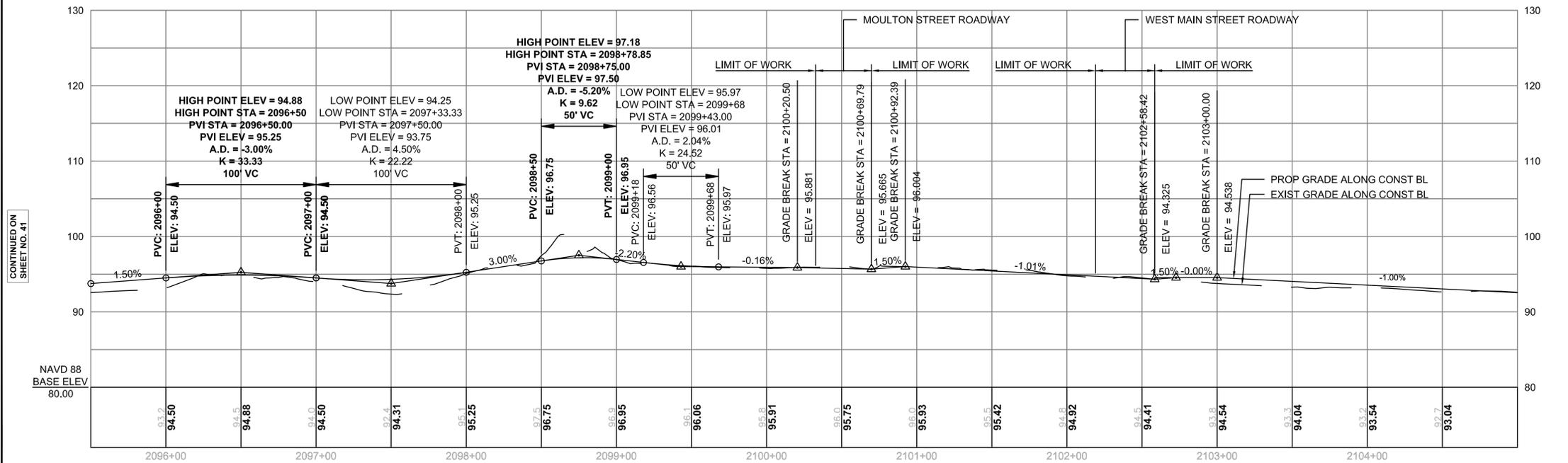
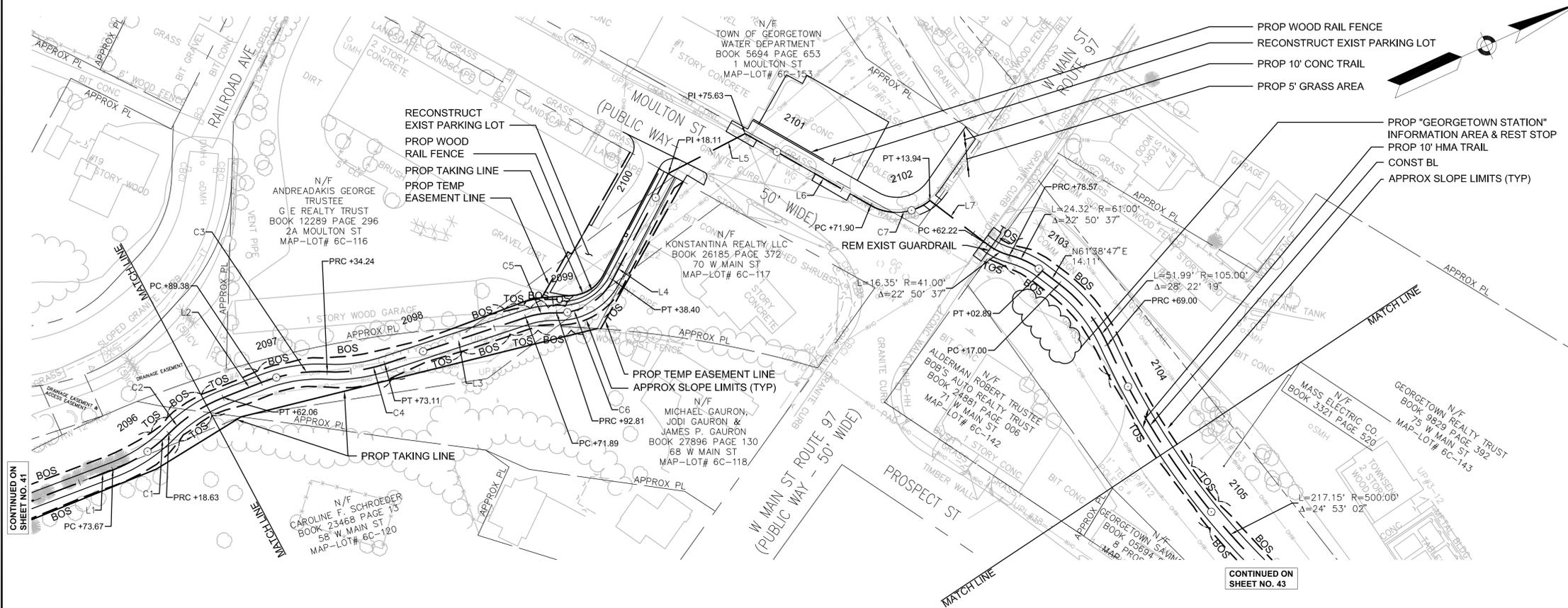
NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



NUMBER	STARTING STATION	CURVE DATA	LINE DATA	ENDING STATION
L1	2094+40.65		N3° 48' 31"E 133.02'	2095+73.67
C1	2095+73.67	R=105.00' Δ=24°31'54" L=44.96' T=22.83'		2096+18.63
C2	2096+18.63	R=105.00' Δ=23°42'09" L=43.44' T=22.03'		2096+62.06
L2	2096+62.06		N2° 58' 46"E 27.32'	2096+89.38
C3	2096+89.38	R=105.00' Δ=24°28'43" L=44.86' T=22.78'		2097+34.24
C4	2097+34.24	R=105.00' Δ=21°12'30" L=38.87' T=19.66'		2097+73.11
L3	2097+73.11		N6° 14' 59"E 98.78'	2098+71.89
C5	2098+71.89	R=61.00' Δ=19°38'52" L=20.92' T=10.56'		2098+92.81
C6	2098+92.81	R=41.00' Δ=63°42'29" L=45.59' T=25.47'		2099+38.40
L4	2099+38.40		N37° 48' 39"W 79.71'	2100+18.11
L5	2100+18.11		N2° 47' 55"W 57.52'	2100+75.63
L6	2100+75.63		N54° 07' 00"E 96.26'	2101+71.90
C7	2101+71.90	R=35.00' Δ=68°49'19" L=42.04' T=23.37'		2102+13.94
L7	2102+13.94		N61° 38' 47"E 48.29'	2102+62.22



CONTINUED ON SHEET NO. 41

CONTINUED ON SHEET NO. 43

CONTINUED ON SHEET NO. 41

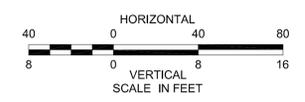
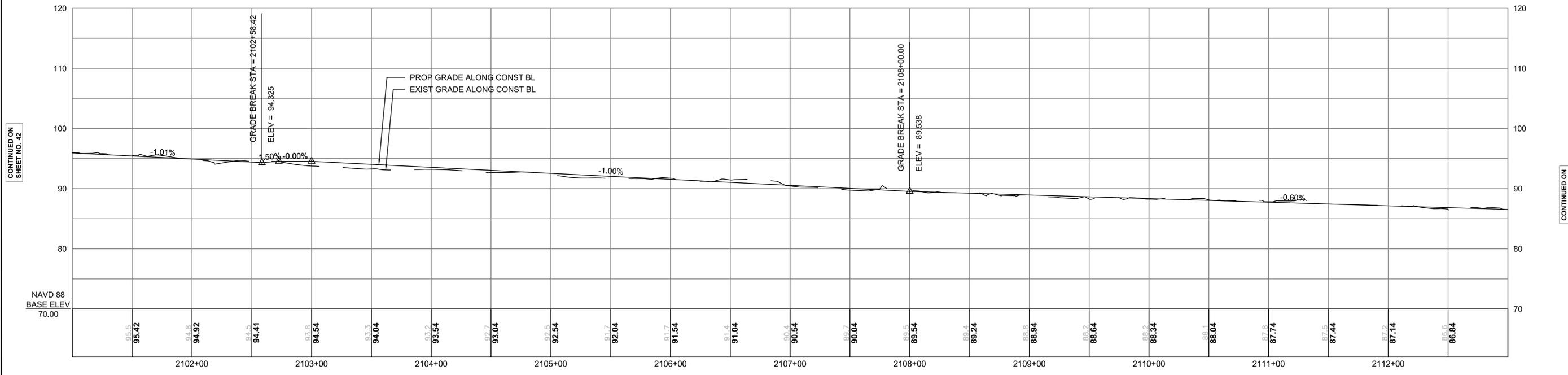
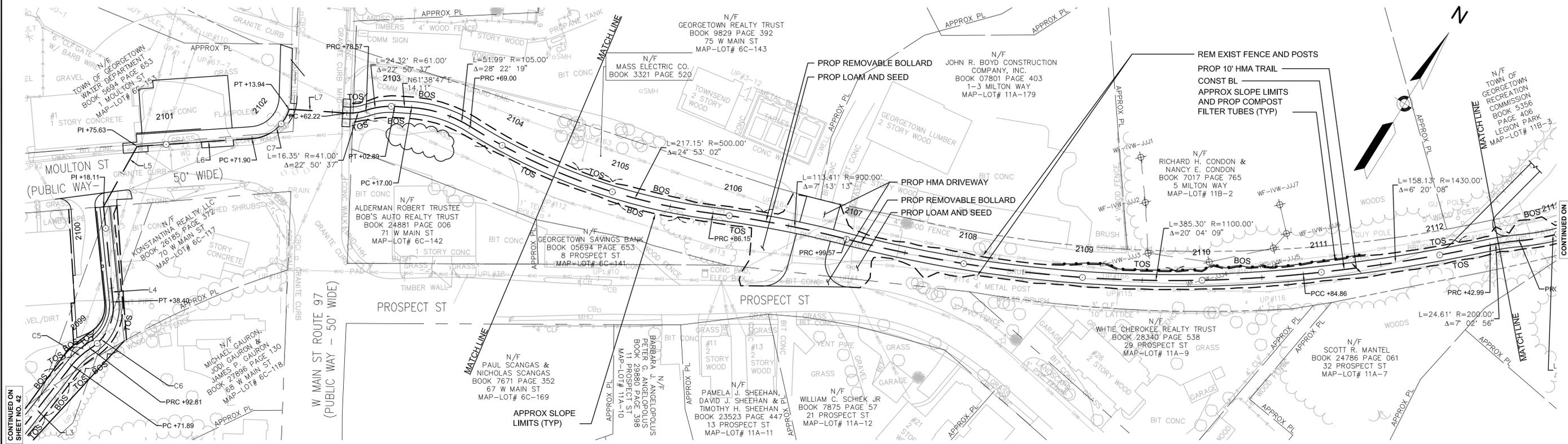
CONTINUED ON SHEET NO. 43

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	43	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 30 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON  
SHEET NO. 42

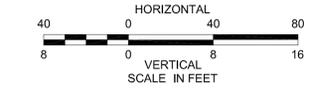
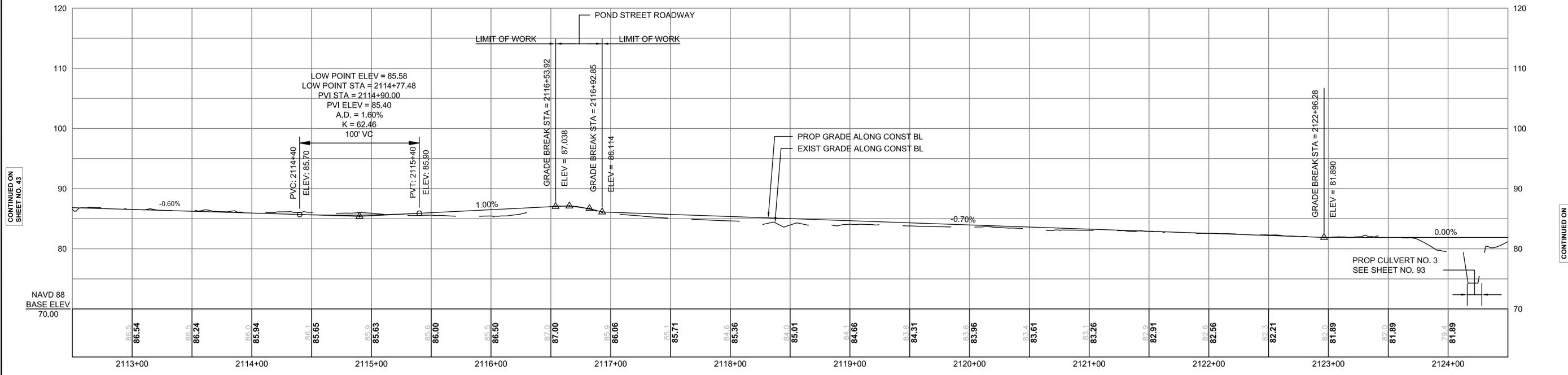
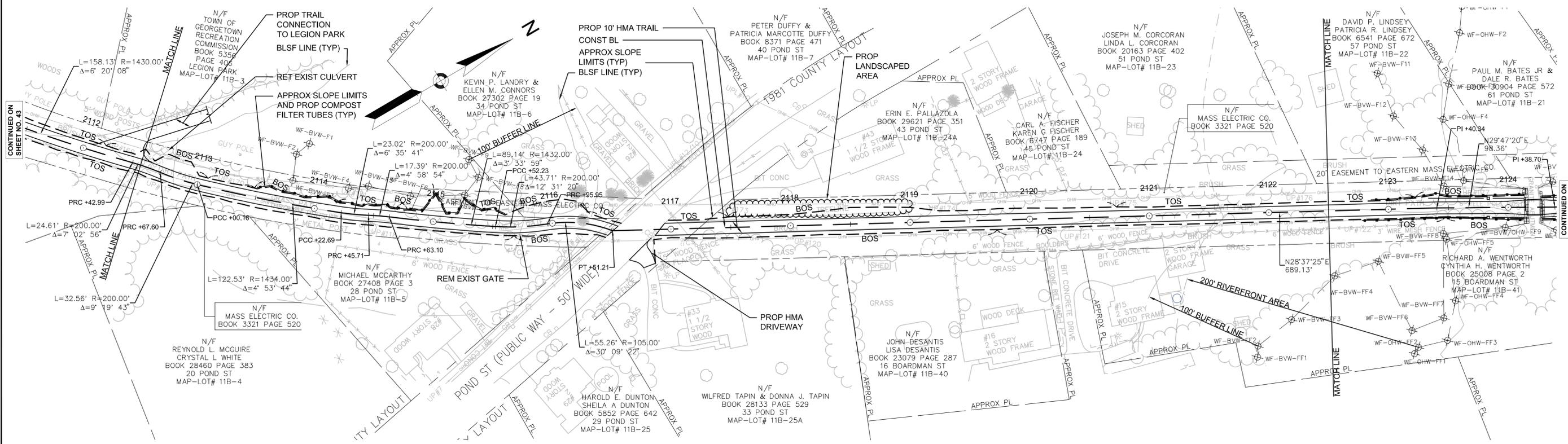
CONTINUED ON  
SHEET NO. 44

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	44	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 31 OF 57

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

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON  
SHEET NO. 43

CONTINUED ON  
SHEET NO. 45

CONTINUED ON  
SHEET NO. 43

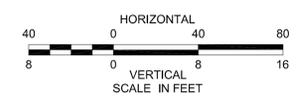
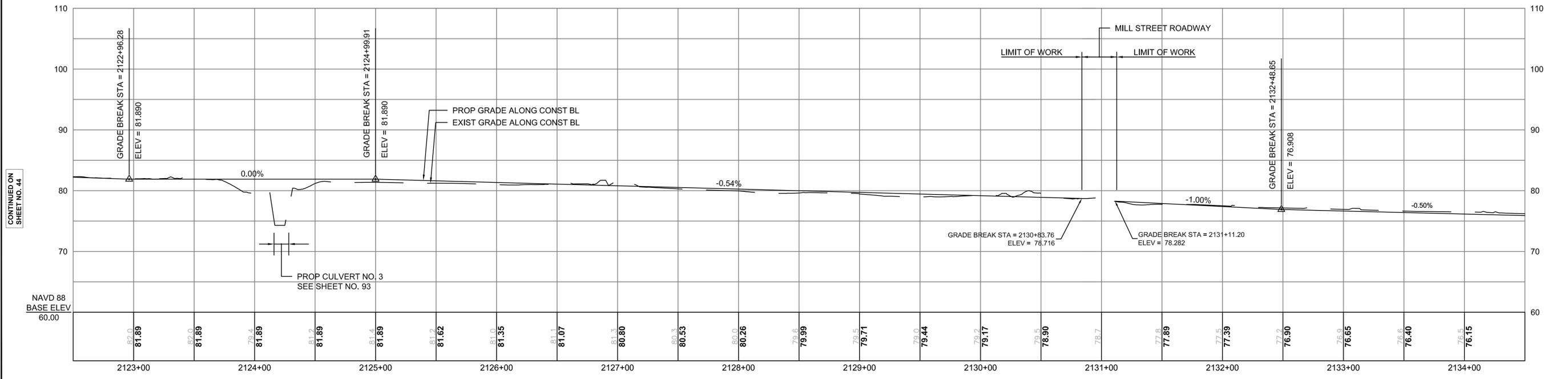
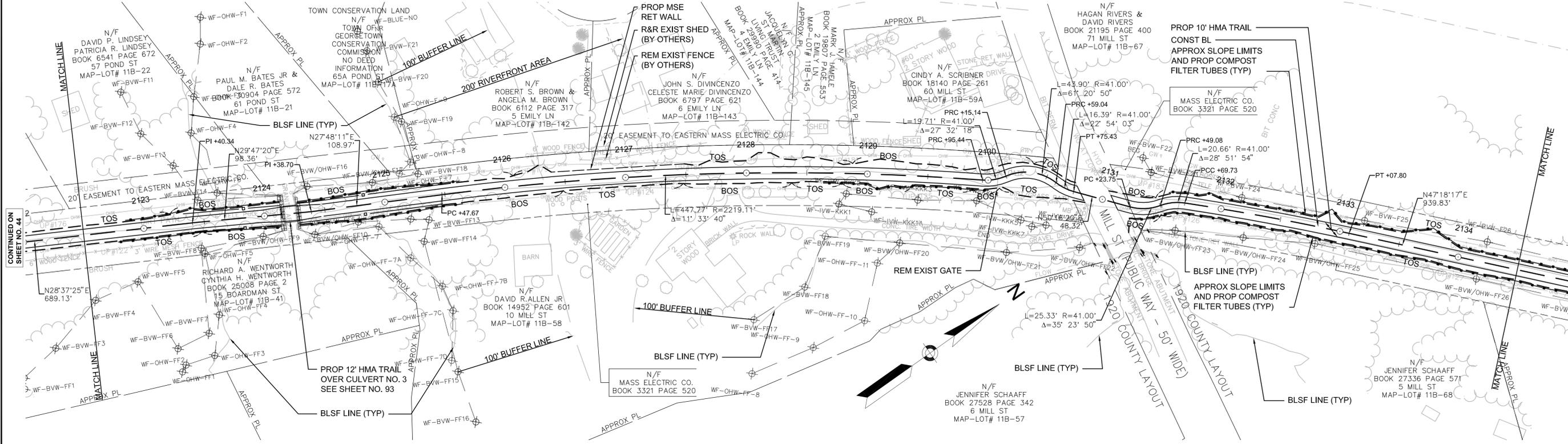
CONTINUED ON  
SHEET NO. 45

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 32 OF 57

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

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 44

CONTINUED ON SHEET NO. 46

CONTINUED ON SHEET NO. 44

CONTINUED ON SHEET NO. 46

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

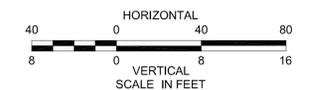
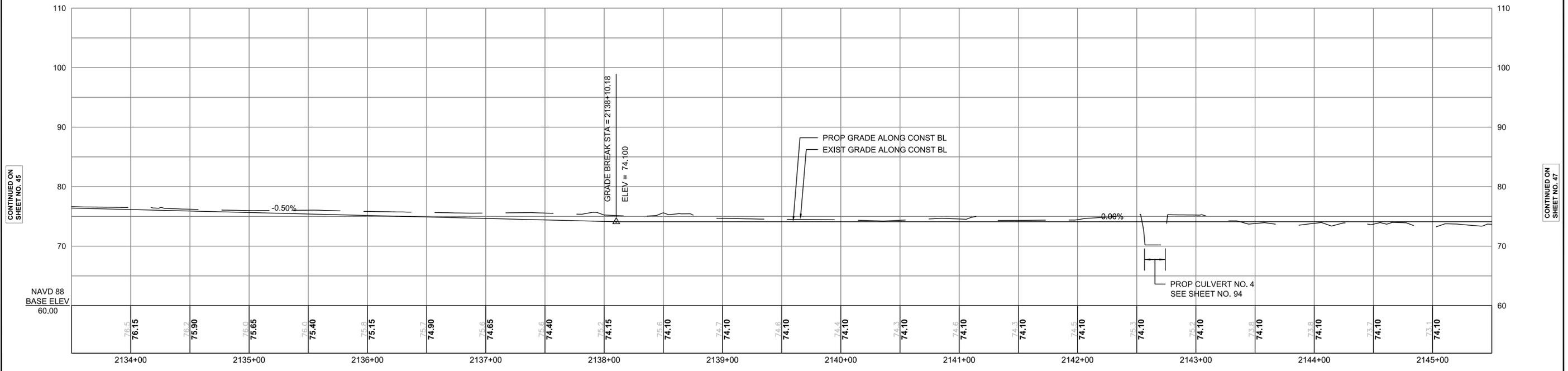
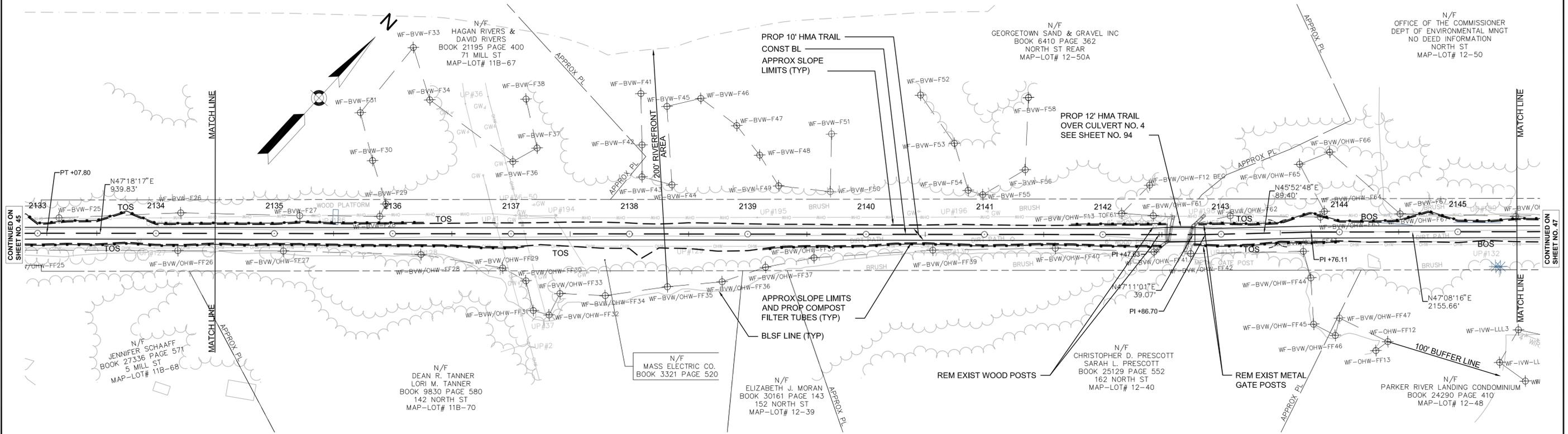
1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	46	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 33 OF 57

N/F  
OFFICE OF THE COMMISSIONER  
DEPT OF ENVIRONMENTAL MNGT  
NO DEED INFORMATION  
NORTH ST  
MAP-LOT# 12-50



CONTINUED ON SHEET NO. 45

CONTINUED ON SHEET NO. 47

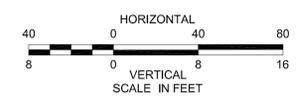
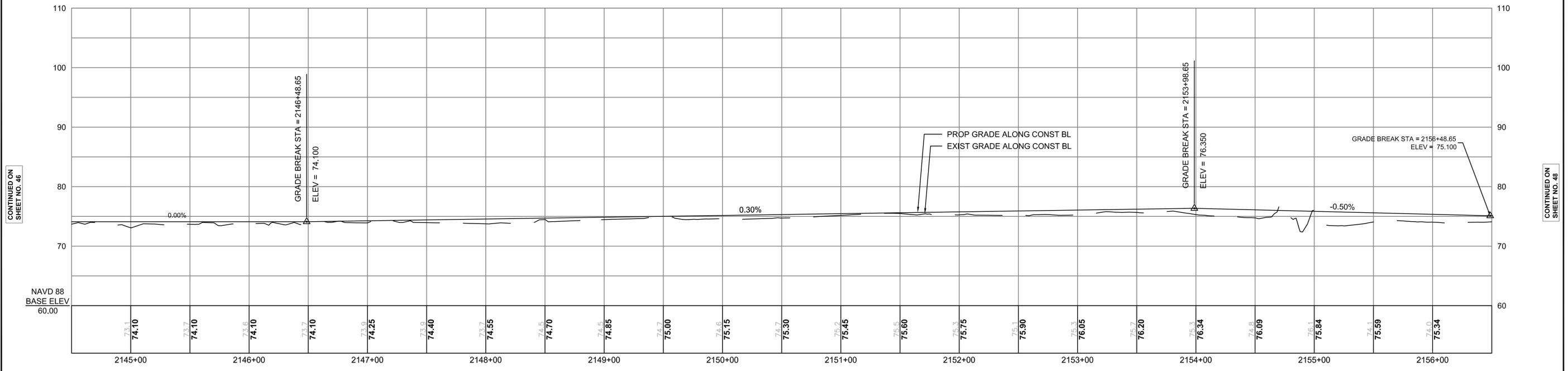
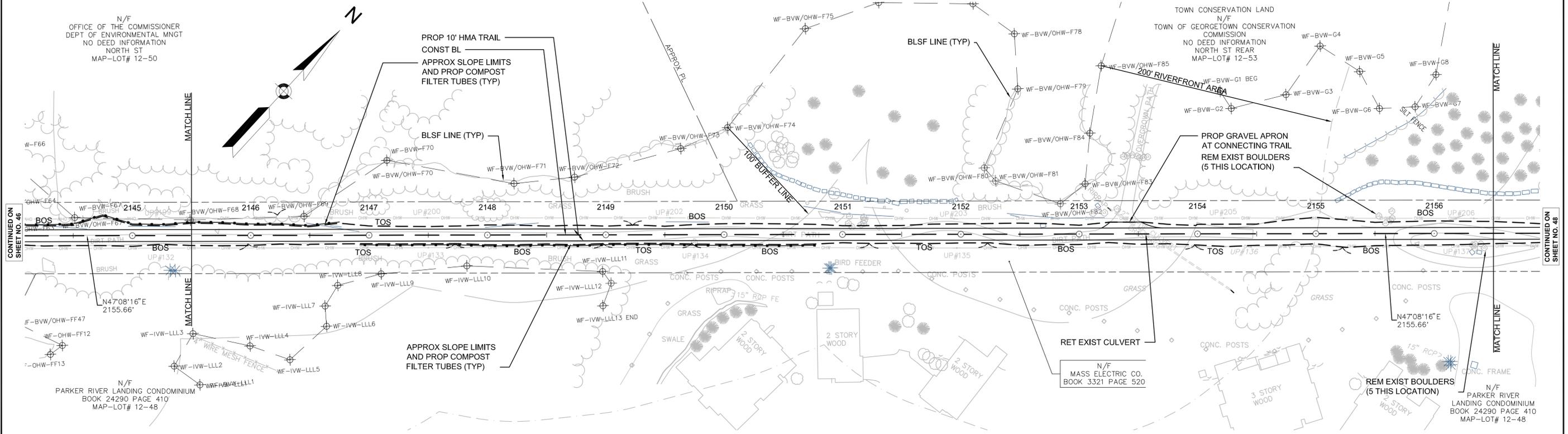
605020.DWG CONST PLANS GEORGETOWN.DWG [GEO 33] 2012-Aug-20

HIGHWAY GUARD DETAILS NONE  
 TRAFFIC SIGNAL CONDUIT NONE  
 WATER SUPPLY ALTERATIONS NONE  
 DRAINAGE DETAILS NONE

- NOTES:
1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	47	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
 GEORGETOWN  
 PART 34 OF 57



CONTINUED ON SHEET NO. 46

CONTINUED ON SHEET NO. 48

CONTINUED ON SHEET NO. 46

CONTINUED ON SHEET NO. 48

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 35 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

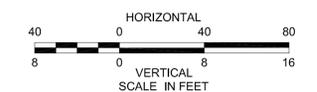
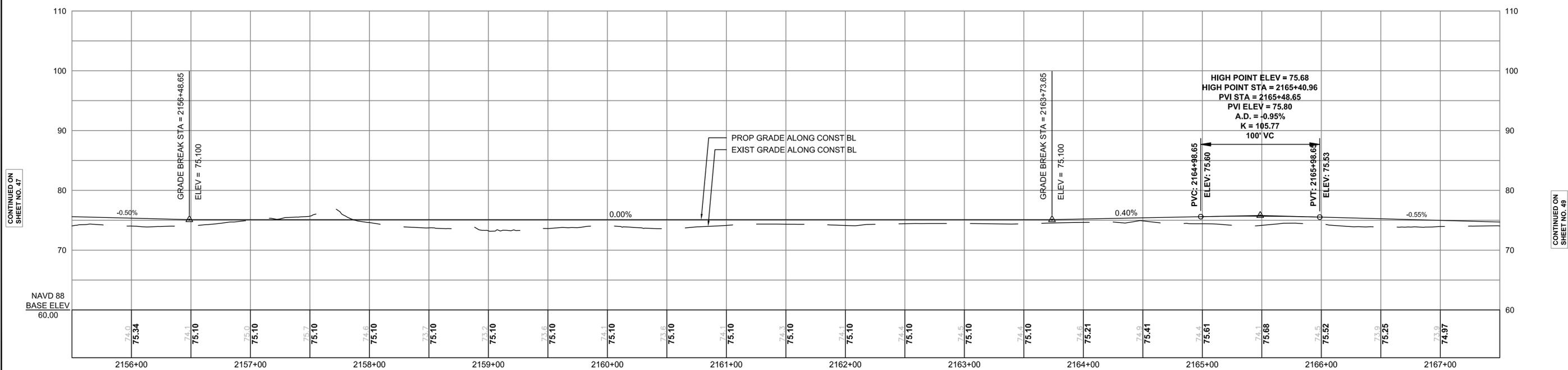
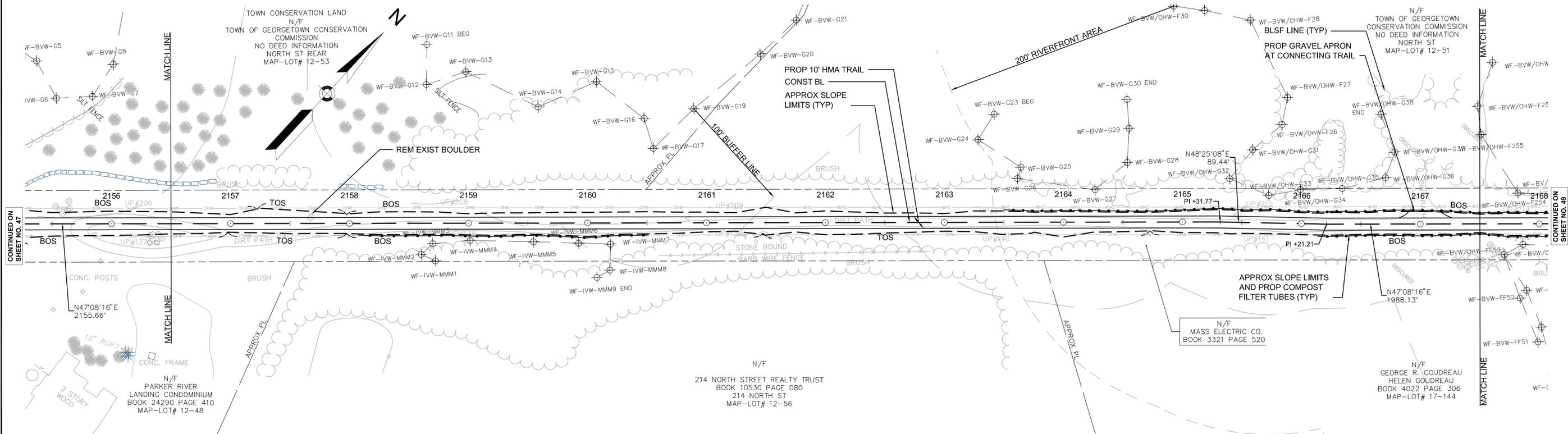
NONE

DRAINAGE DETAILS

NONE

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 47

CONTINUED ON SHEET NO. 49

CONTINUED ON SHEET NO. 47

CONTINUED ON SHEET NO. 49

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	49	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 36 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

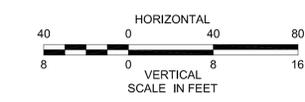
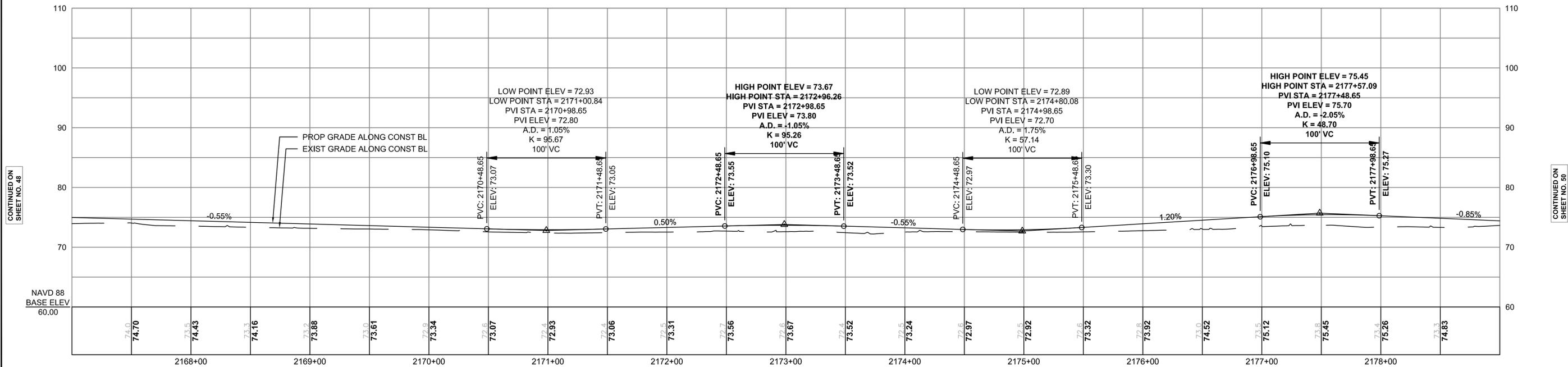
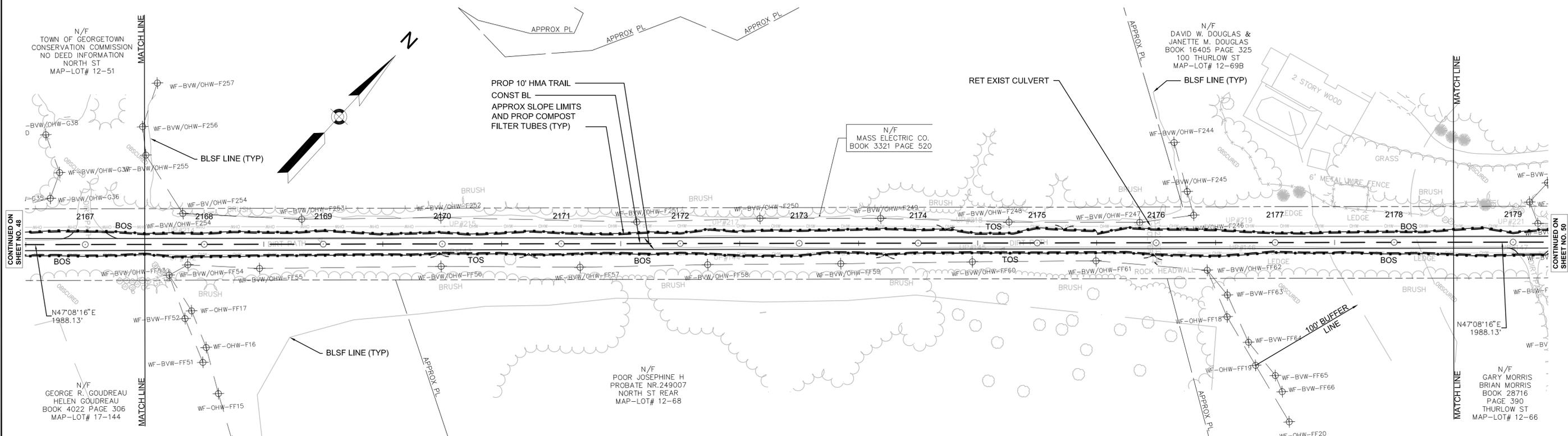
NONE

DRAINAGE DETAILS

NONE

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 48

CONTINUED ON SHEET NO. 50

CONTINUED ON SHEET NO. 48

CONTINUED ON SHEET NO. 50

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	50	106
PROJECT FILE NO.		605020	

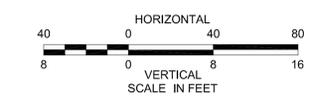
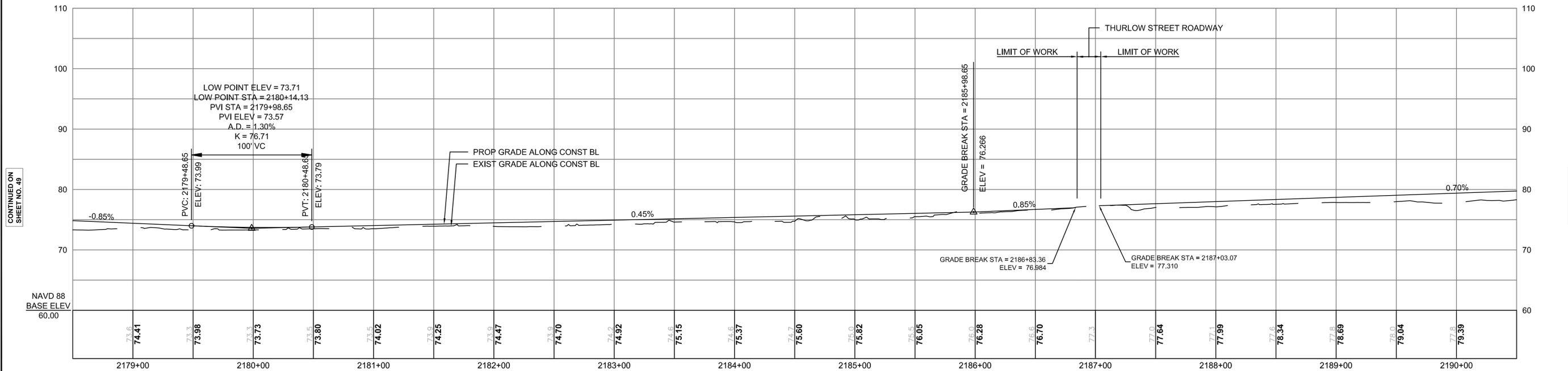
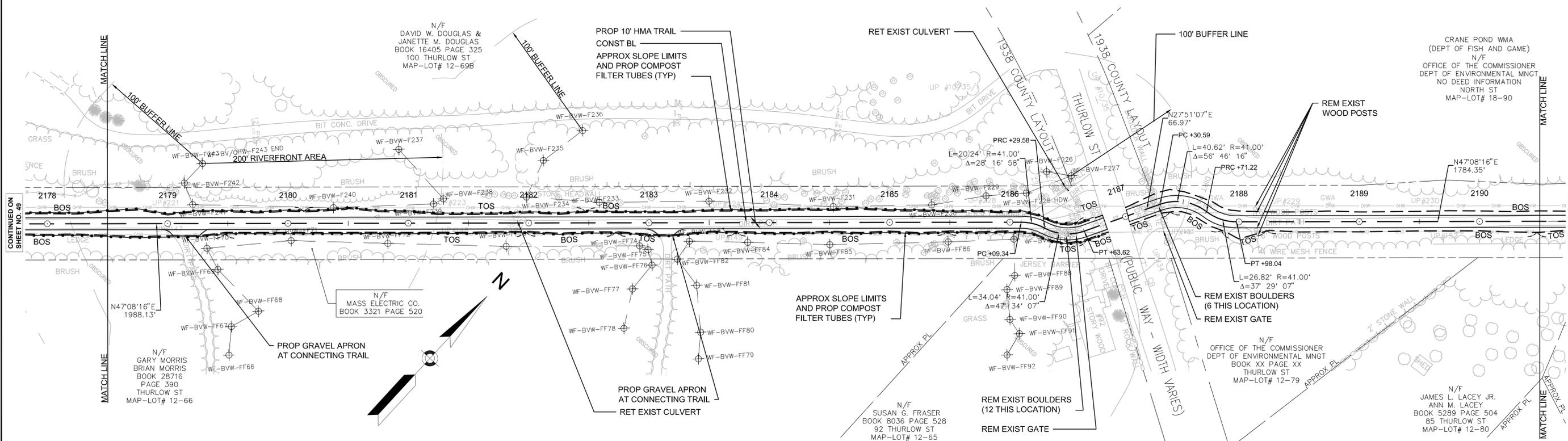
CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 37 OF 57

HIGHWAY GUARD DETAILS      TRAFFIC SIGNAL CONDUIT      WATER SUPPLY ALTERATIONS      DRAINAGE DETAILS

NONE                                  NONE                                  NONE                                  NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON  
SHEET NO. 49

CONTINUED ON  
SHEET NO. 51

CONTINUED ON  
SHEET NO. 49

CONTINUED ON  
SHEET NO. 51

666020HD CONST PLANS GEORGETOWN.DWG [GEO 37] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	51	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 38 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

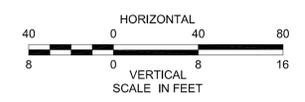
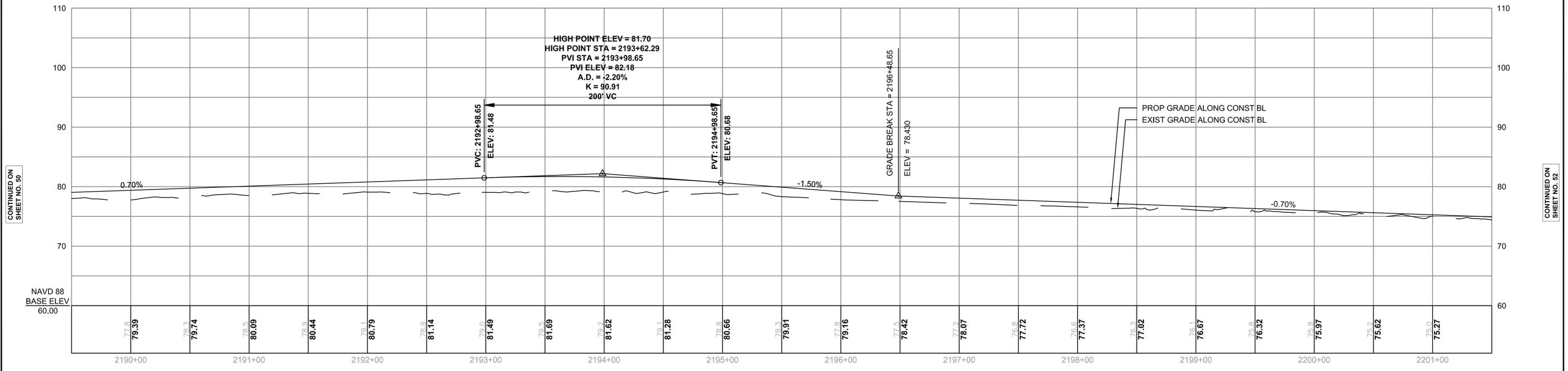
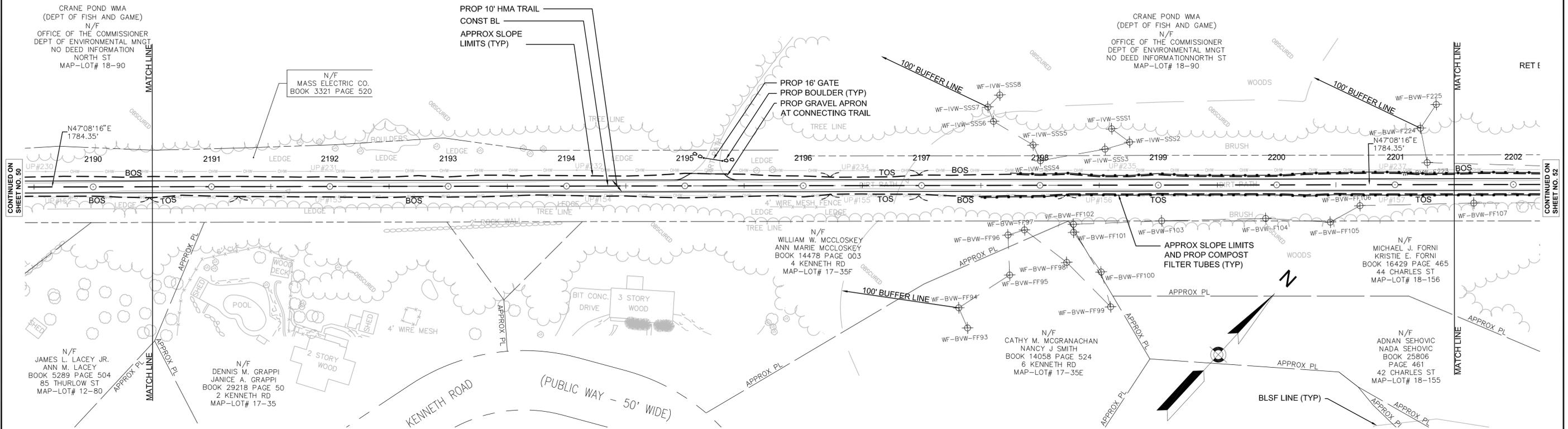
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 50

CONTINUED ON SHEET NO. 52

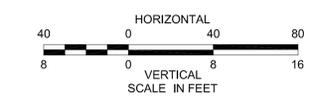
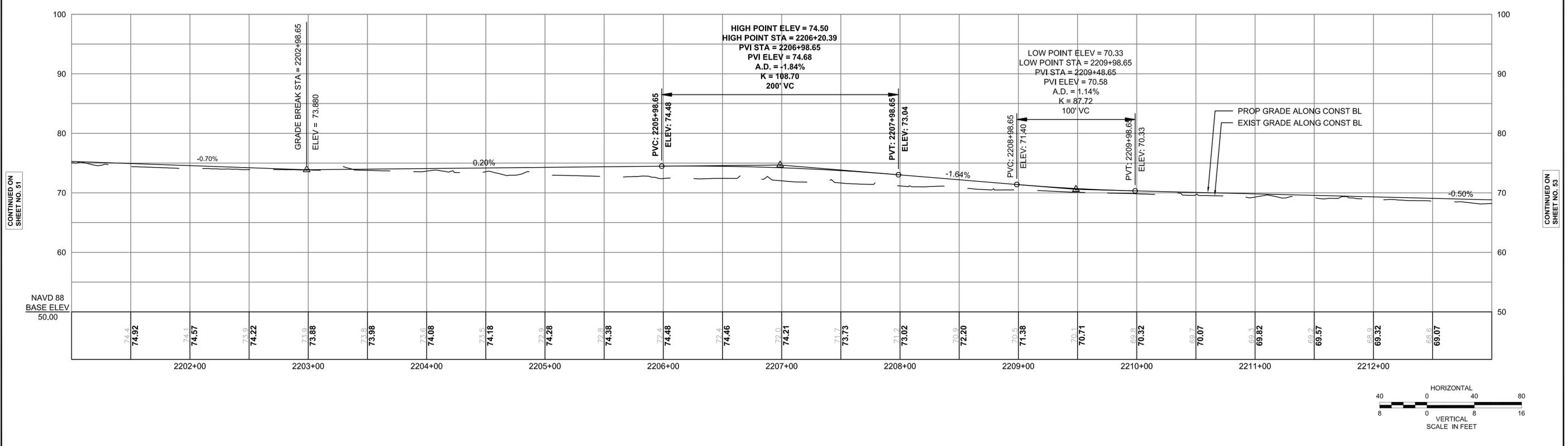
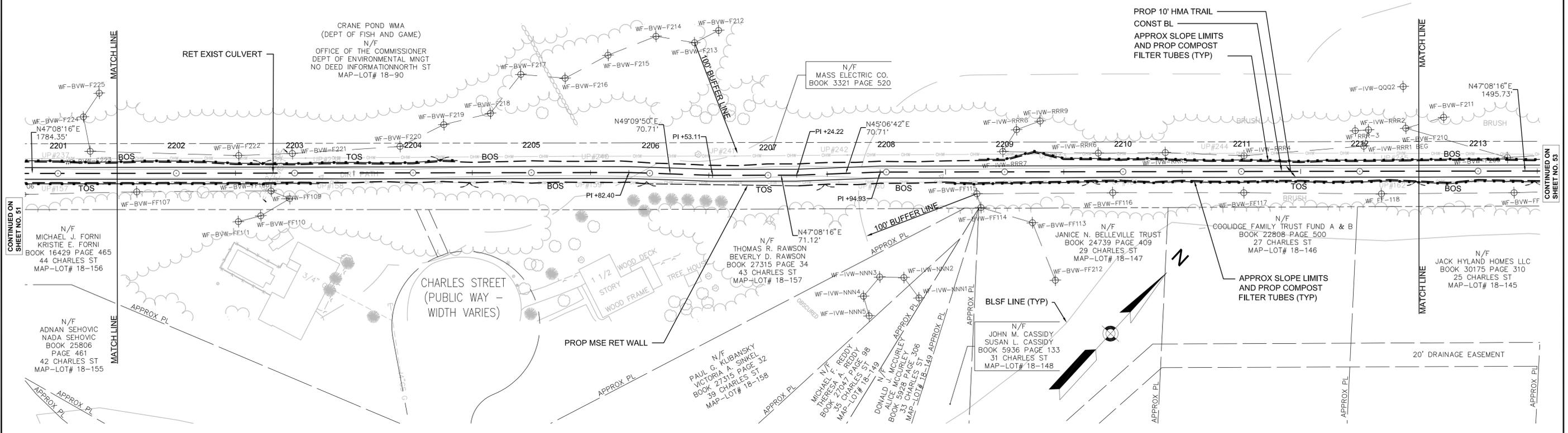
606020.HD CONST PLANS GEORGETOWN.DWG [GEO 38] 2012-Aug-20

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	52	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 39 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 51

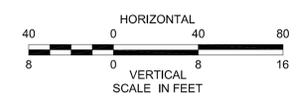
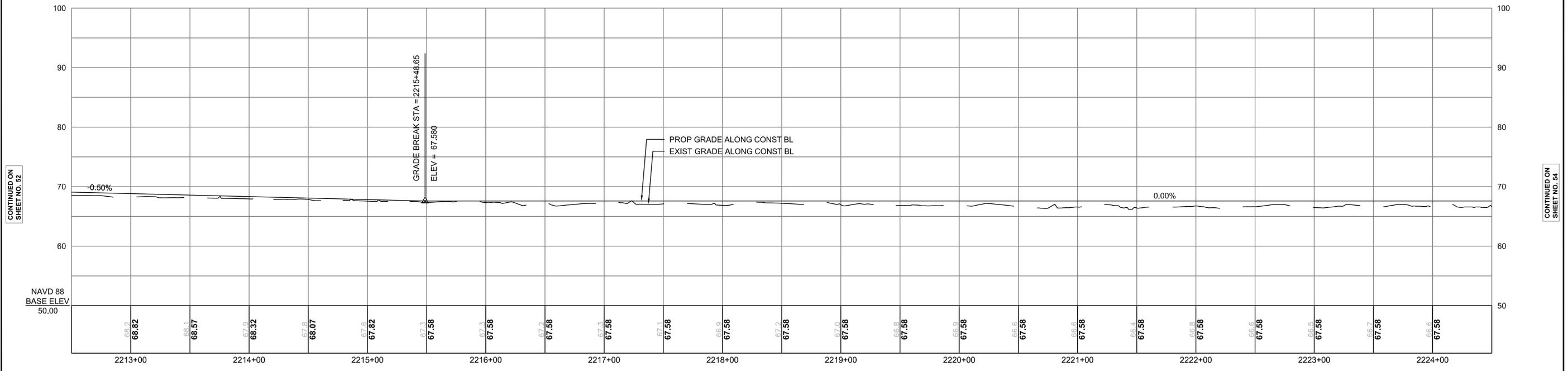
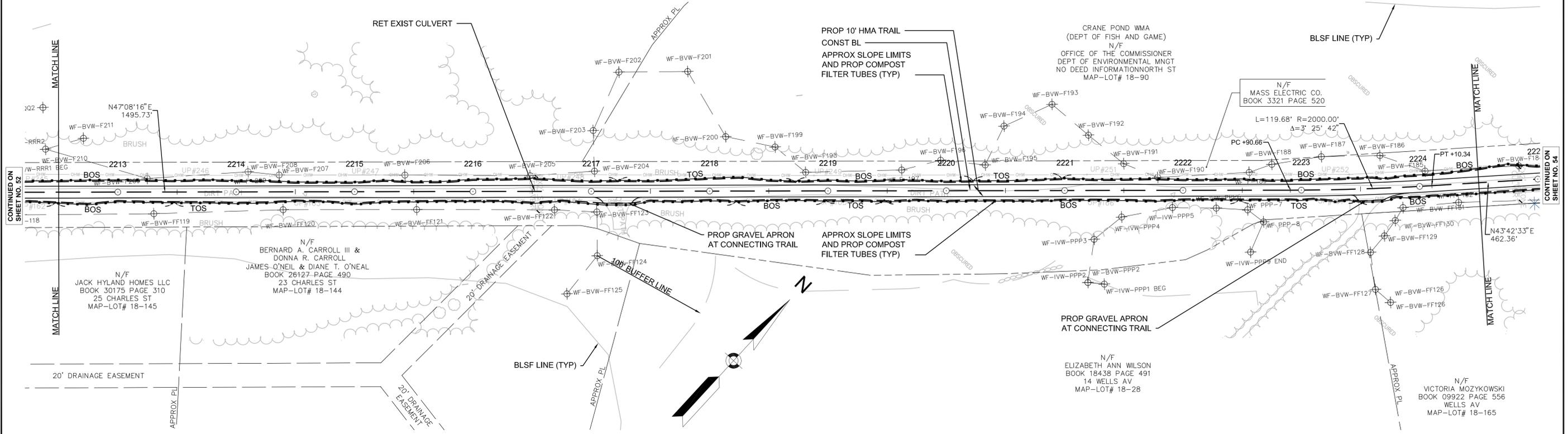
CONTINUED ON SHEET NO. 53

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	53	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 40 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON  
SHEET NO. 52

CONTINUED ON  
SHEET NO. 54

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	54	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN  
PART 41 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

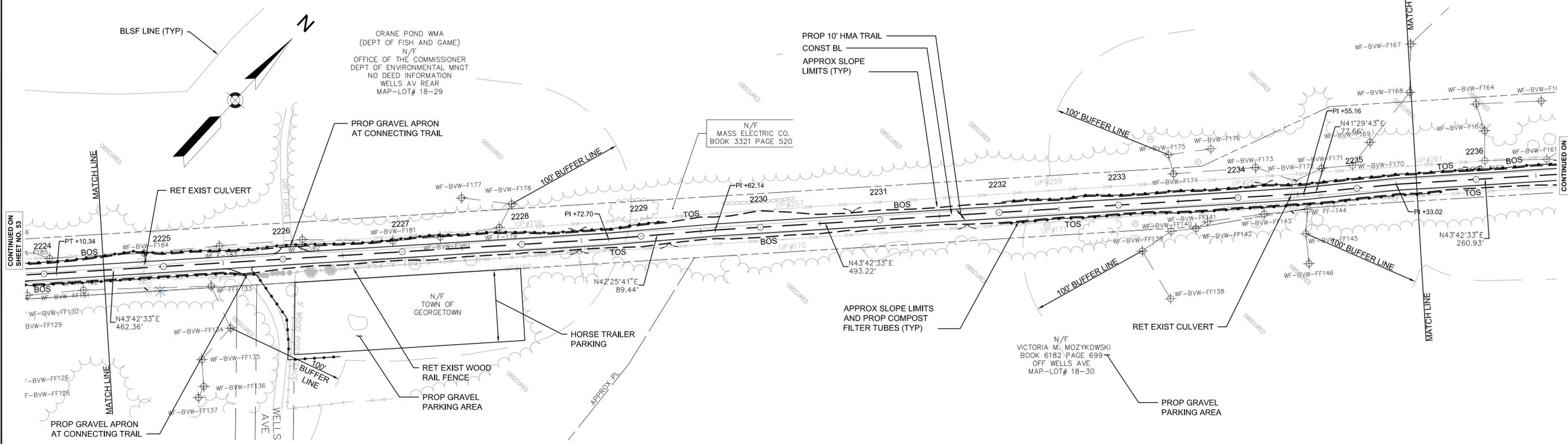
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

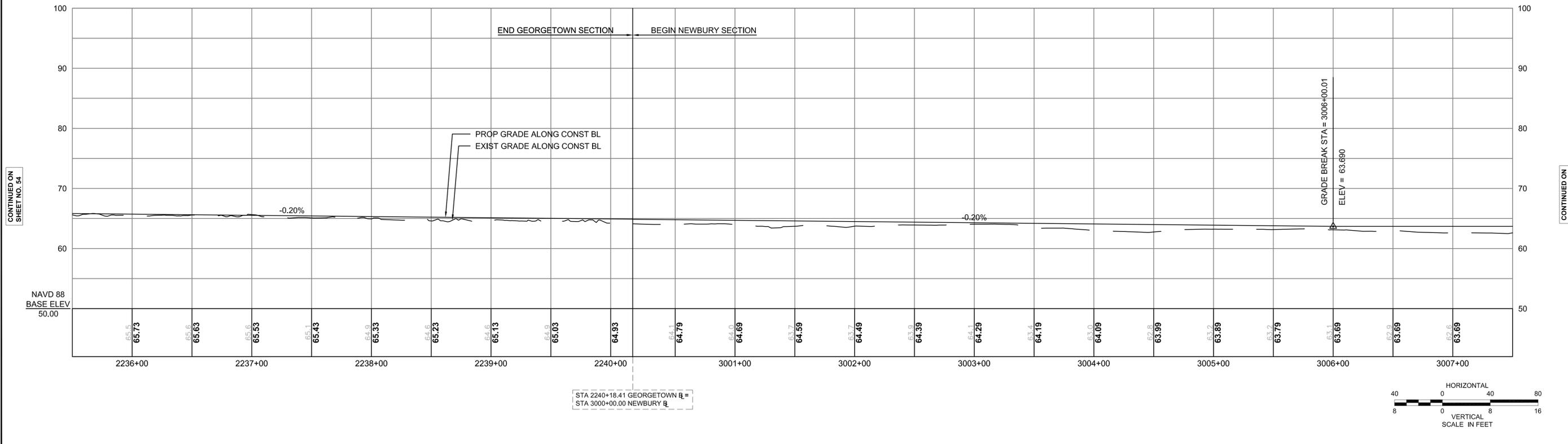
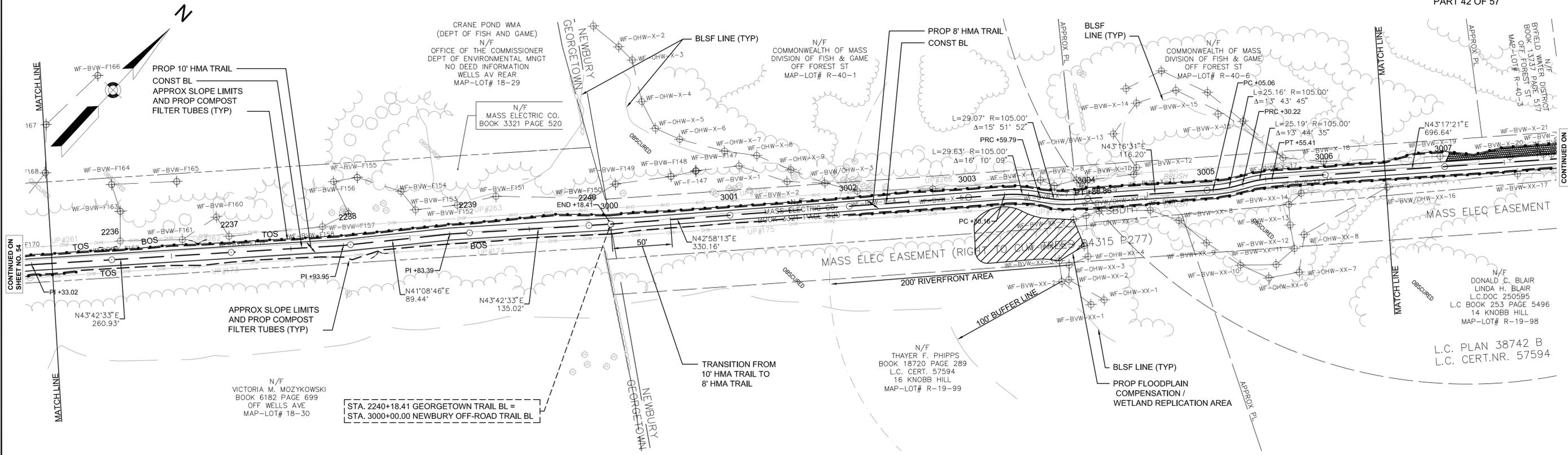


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	55	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
GEORGETOWN - NEWBURY  
PART 42 OF 57

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 54

CONTINUED ON SHEET NO. 56

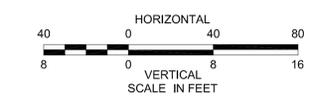
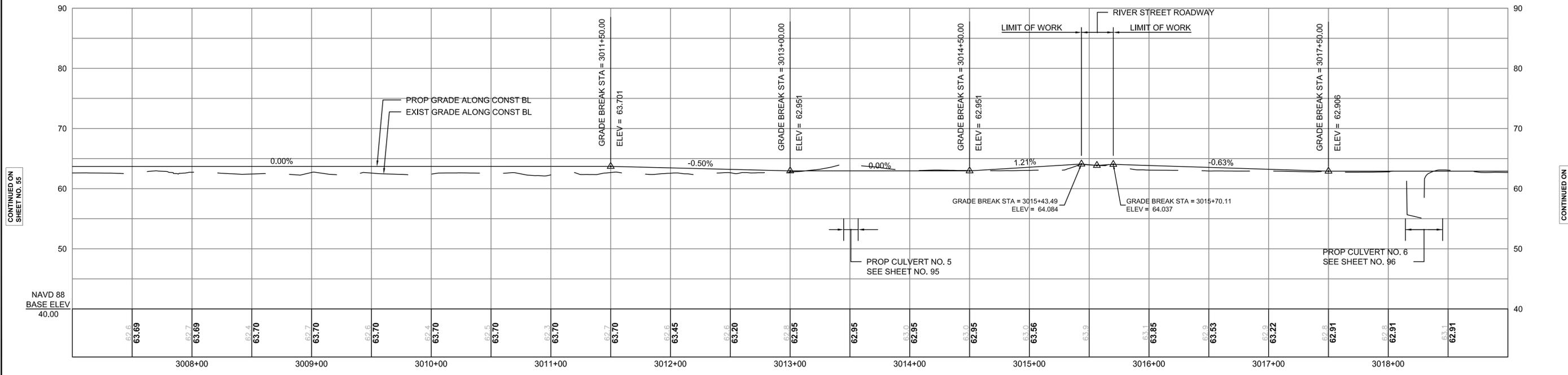
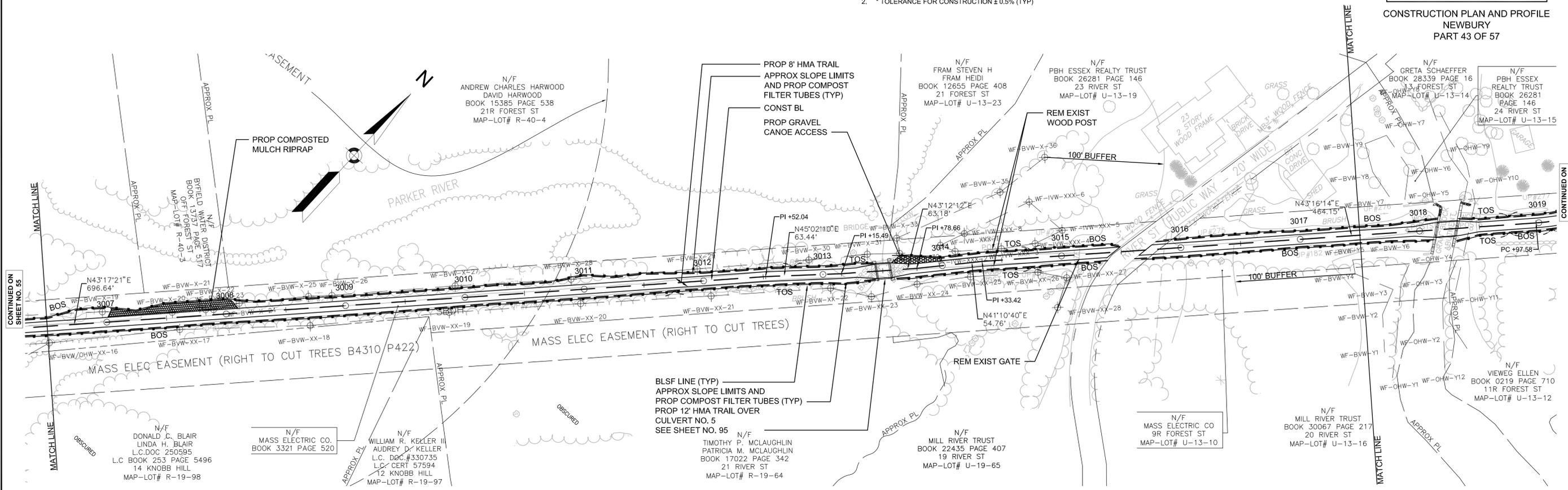
STA 2240+18.41 GEORGETOWN R =  
STA 3000+00.00 NEWBURY R

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	56	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 43 OF 57

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

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 55

CONTINUED ON SHEET NO. 55

CONTINUED ON SHEET NO. 57

CONTINUED ON SHEET NO. 57

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	57	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 44 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

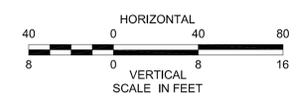
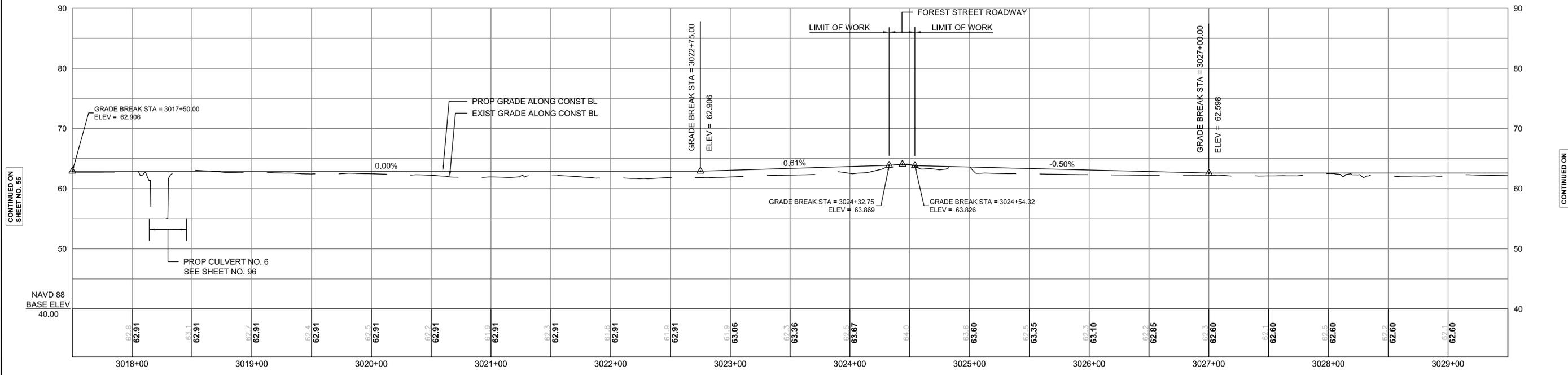
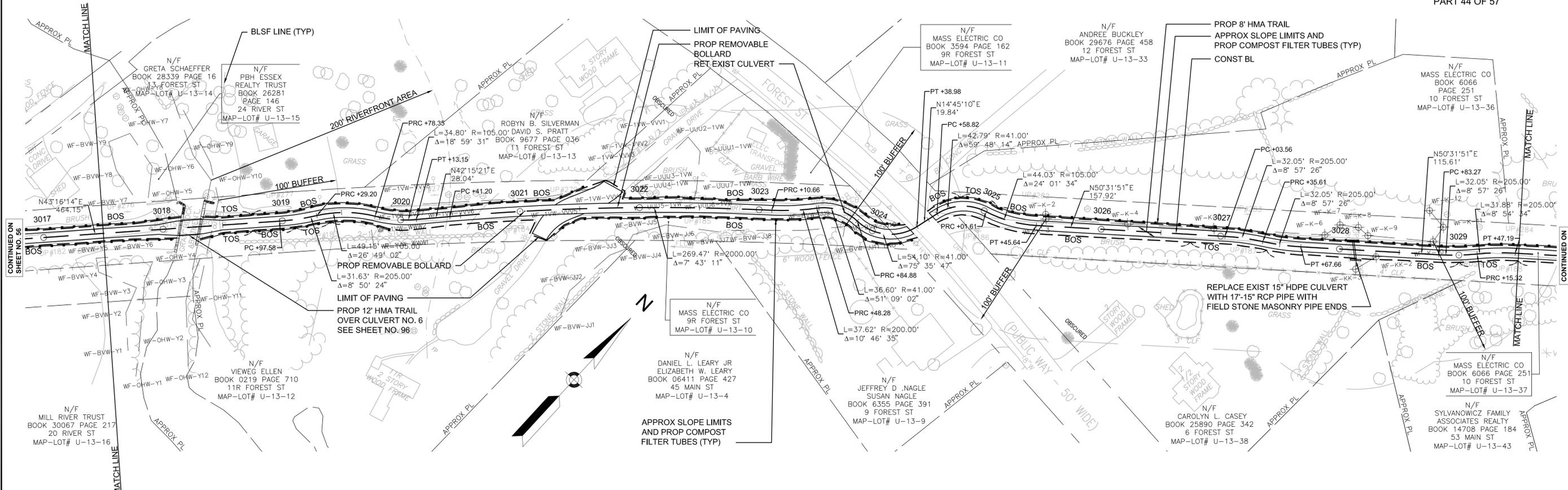
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 56

CONTINUED ON SHEET NO. 58

CONTINUED ON SHEET NO. 56

CONTINUED ON SHEET NO. 58

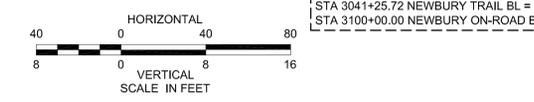
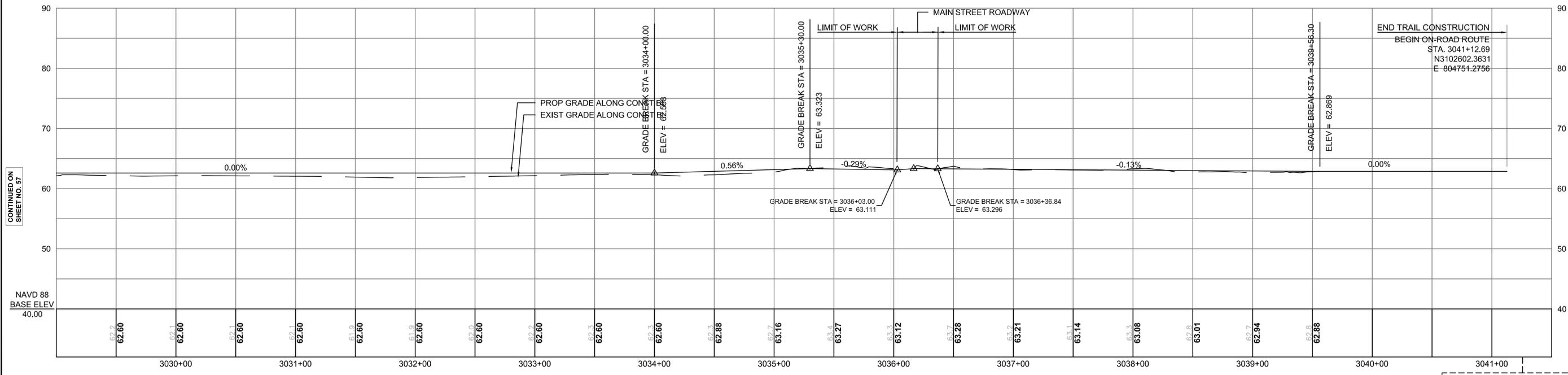
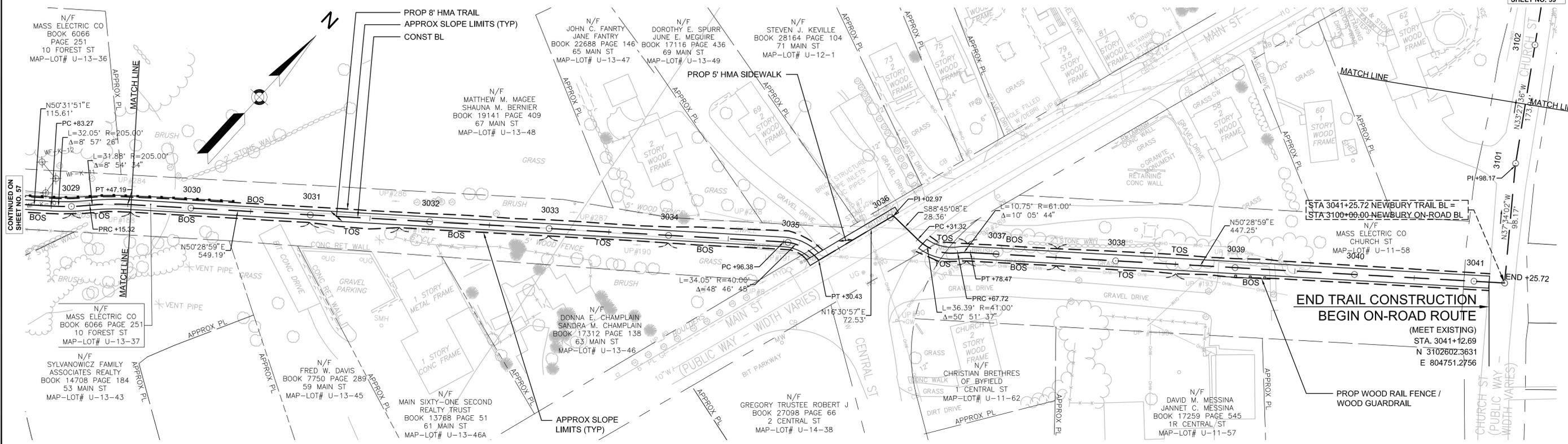
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	58	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 45 OF 57

CONTINUED ON  
SHEET NO. 59

HIGHWAY GUARD DETAILS NONE  
TRAFFIC SIGNAL CONDUIT NONE  
WATER SUPPLY ALTERATIONS NONE  
DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON  
SHEET NO. 57

NAVD 88  
BASE ELEV  
40.00

STA 3041+25.72 NEWBURY TRAIL BL =  
STA 3100+00.00 NEWBURY ON-ROAD BL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	59	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 46 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

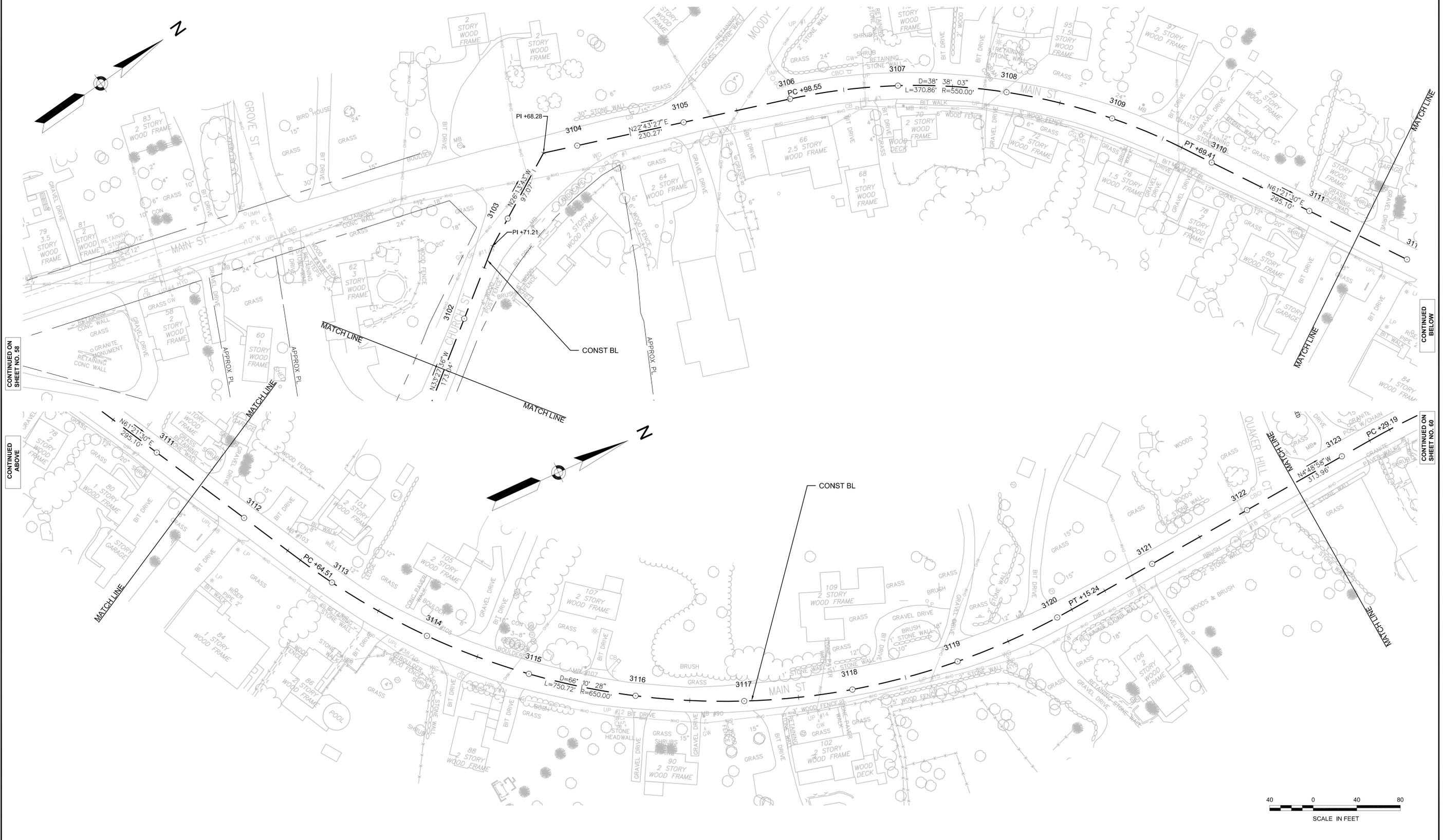
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 58

CONTINUED  
ABOVE

CONTINUED  
BELOW

CONTINUED ON  
SHEET NO. 60





STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	61	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 48 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 60

CONTINUED BELOW

CONTINUED ON  
SHEET NO. 62



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	62	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 49 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

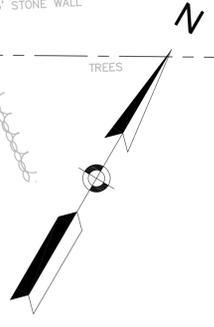
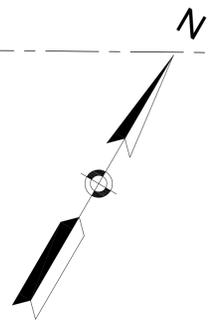


CONTINUED ON  
SHEET NO. 61

CONTINUED  
BELOW

CONTINUED  
ABOVE

CONTINUED ON  
SHEET NO. 63



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	63	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 50 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

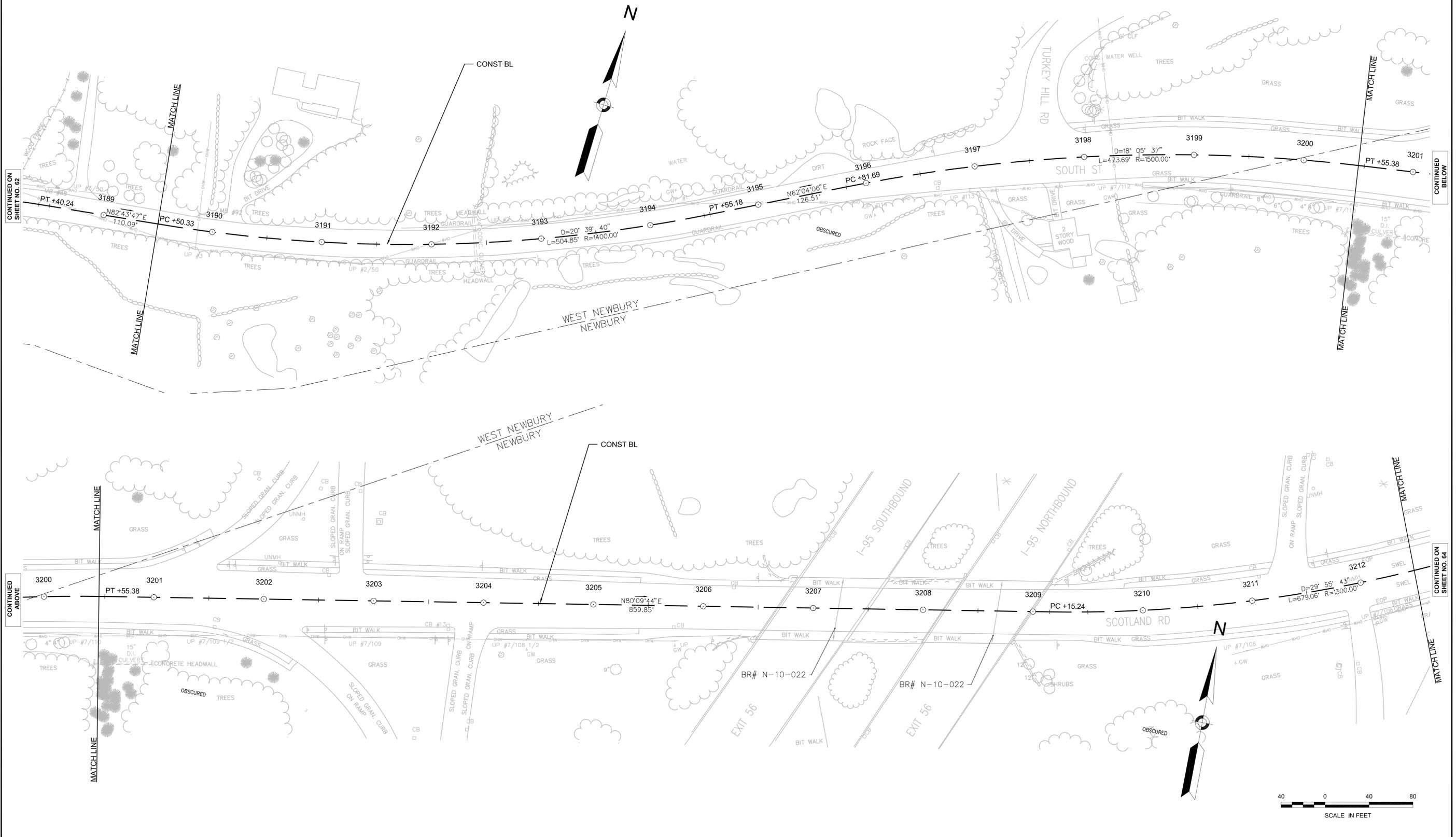
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 62

CONTINUED  
BELOW

CONTINUED  
ABOVE

CONTINUED  
ON  
SHEET NO. 64





STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	65	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 52 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

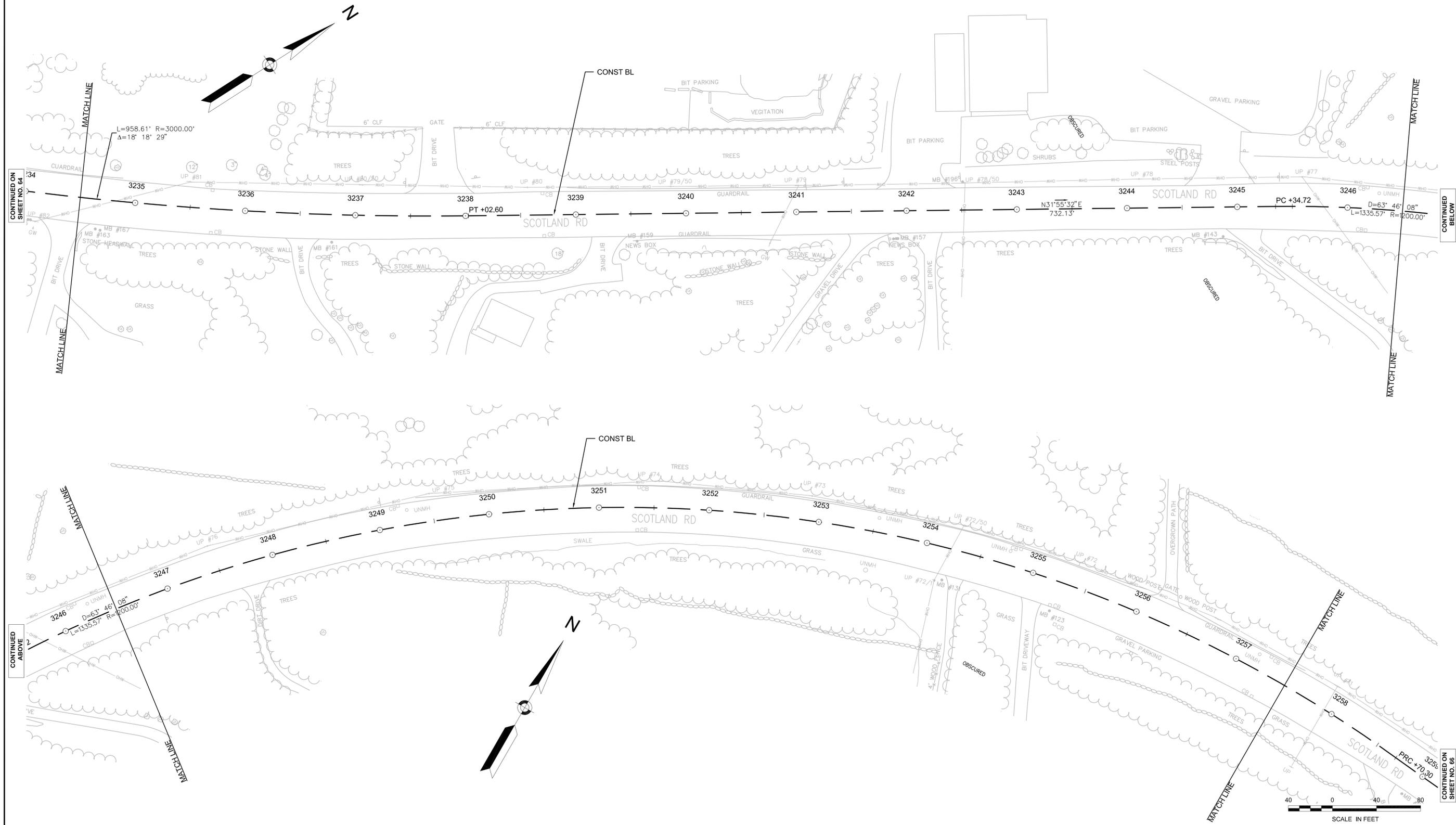
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 64

CONTINUED  
BELOW

CONTINUED  
ABOVE

CONTINUED ON  
SHEET NO. 66

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	66	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 53 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

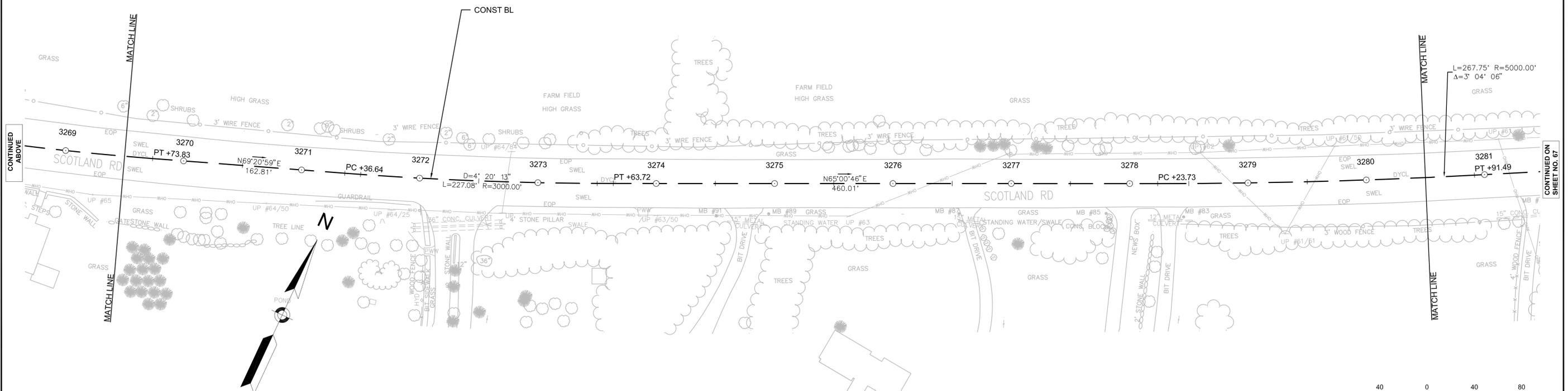
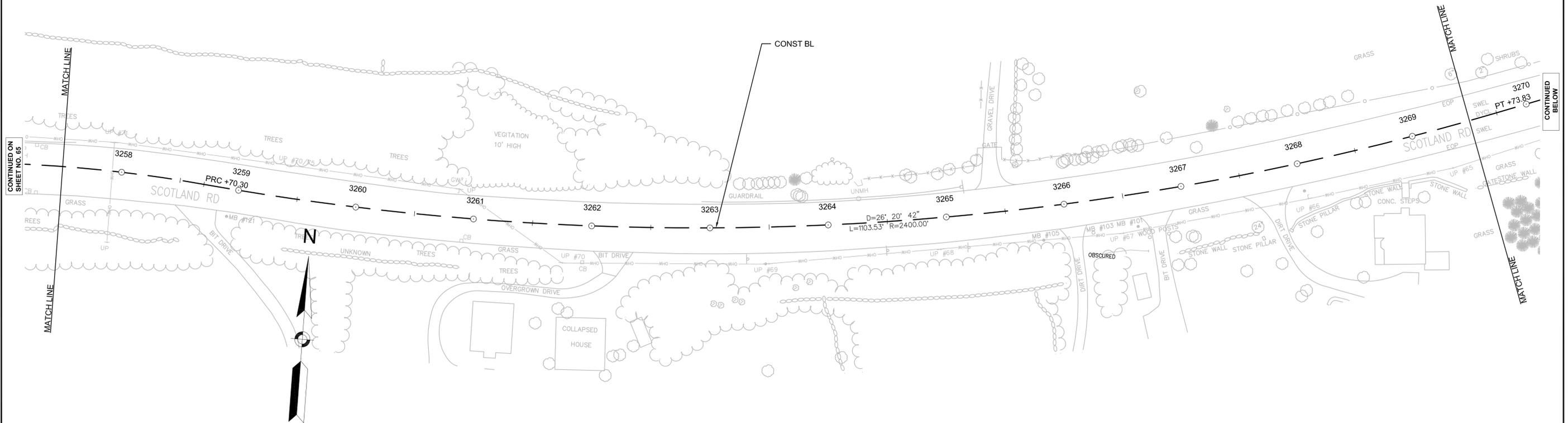
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON SHEET NO. 65

CONTINUED BELOW

CONTINUED ABOVE

CONTINUED ON SHEET NO. 67

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	67	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 54 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

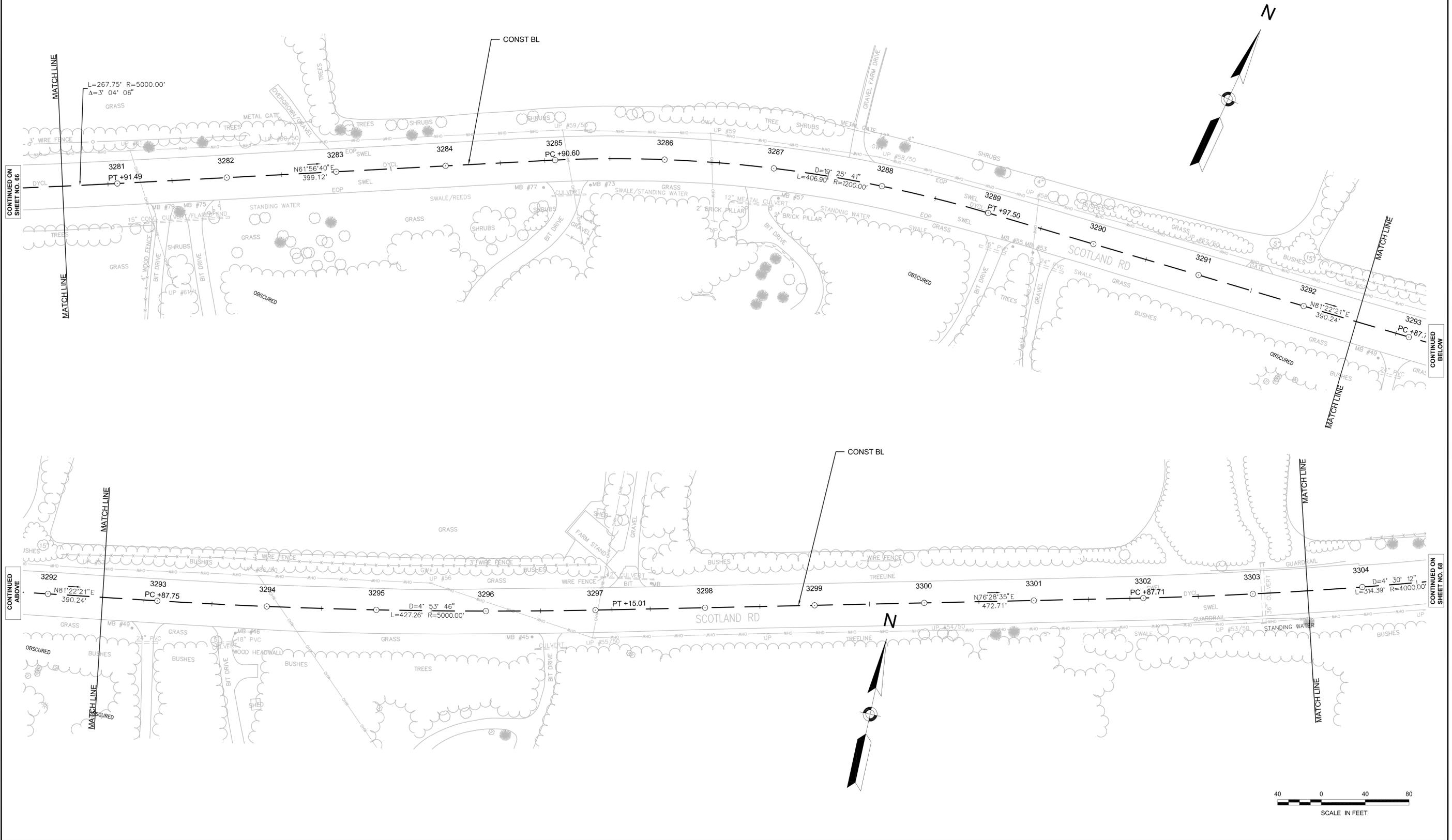
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 66

CONTINUED  
BELOW

CONTINUED  
ABOVE

CONTINUED  
ON  
SHEET NO. 68





STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	70	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
NEWBURY  
PART 57 OF 57

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

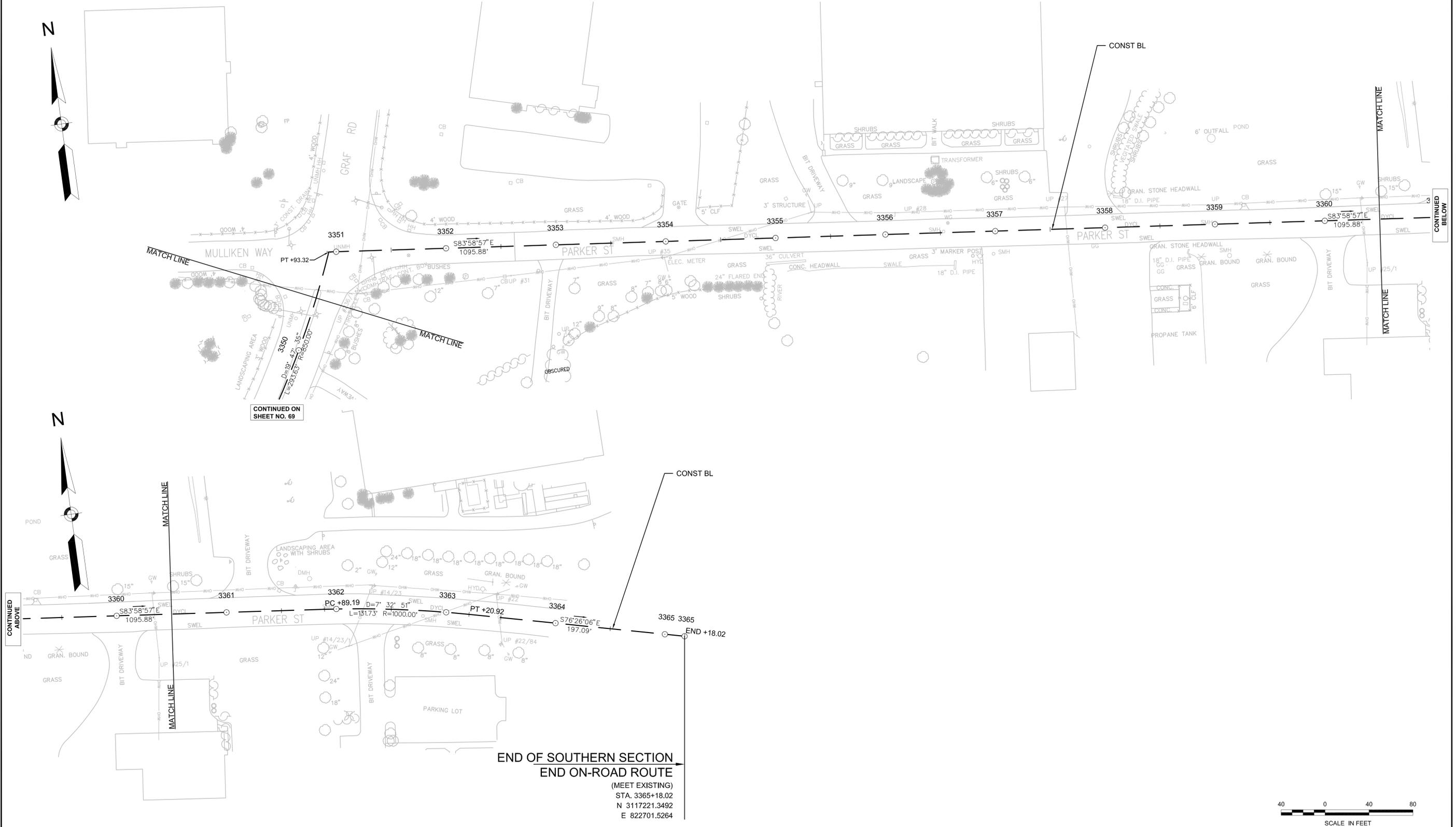
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE



CONTINUED ON  
SHEET NO. 69

CONTINUED  
ABOVE

CONTINUED  
BELOW

END OF SOUTHERN SECTION  
END ON-ROAD ROUTE  
(MEET EXISTING)  
STA. 3365+18.02  
N 3117221.3492  
E 822701.5264



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE BELOW

BEGIN NORTHERN SECTION

STA. 4000+00.00  
N 3130425.6771  
E 826096.9299

BEGIN OFF-ROAD TRAIL  
BEGIN TRAIL CONSTRUCTION

STA. 4001+18.80  
N 3130471.8624  
E 826194.9177

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	71	106

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 1 OF 13



N/F  
RICHARD CURRIER  
ALICE E. CURRIER  
BOOK 5699 PAGE 511  
BOOK 6116 P 464  
35 MUDNOCK RD  
MAP-LOT# 2-30

N/F  
RICHARD CURRIER  
ALICE E. CURRIER  
BOOK 5699 PAGE 511  
37 MUDNOCK RD  
MAP-LOT# 2-60

N/F  
MUDNOCK REALTY TRUST  
BOOK 14183 PAGE 262  
34 MUDNOCK RD  
MAP-LOT# 2-36

N/F  
GEORGE A. MCKENNA  
JOYCE T. MCKENNA  
BOOK 14700 PAGE 12  
2 NIKO WAY  
MAP-LOT# 2-75

N/F  
JOHANNA H. DIFRONZO  
CHARLES M. DIFRONZO  
BOOK 13271 PAGE 143  
4 NIKO WAY  
MAP-LOT# 2-69

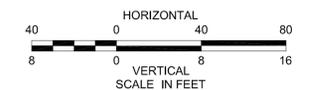
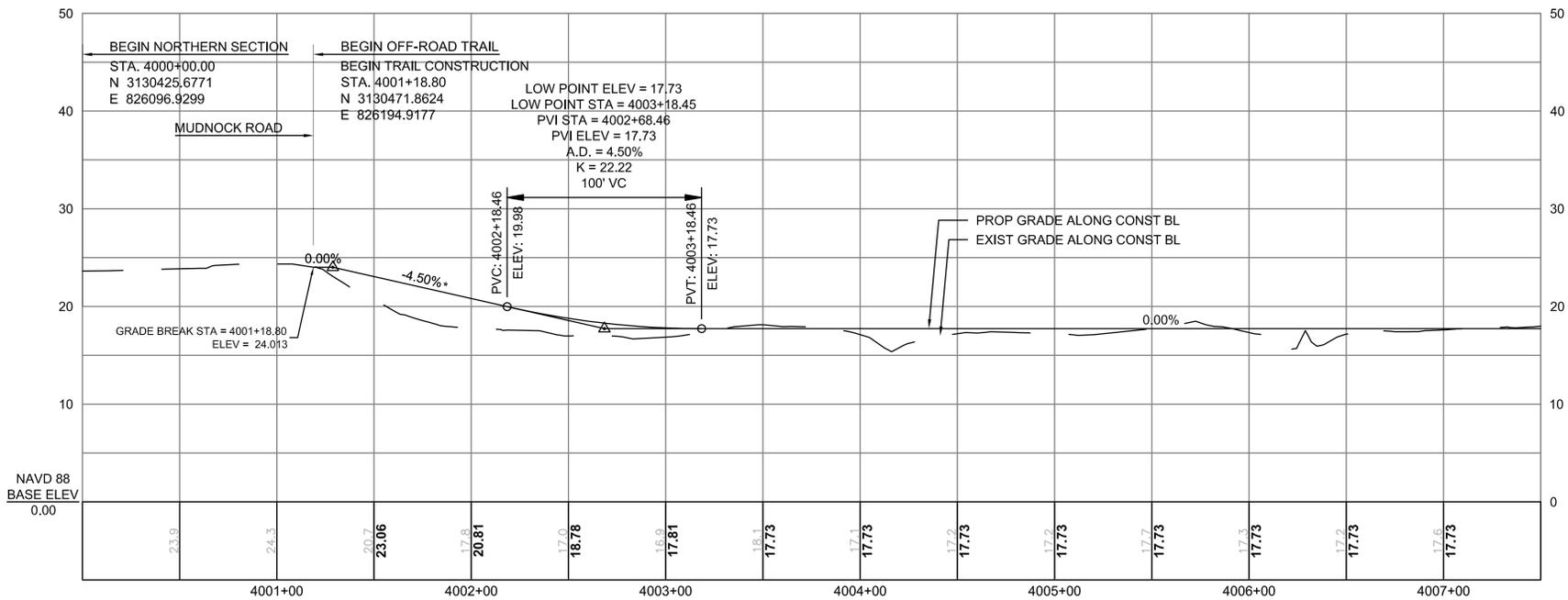
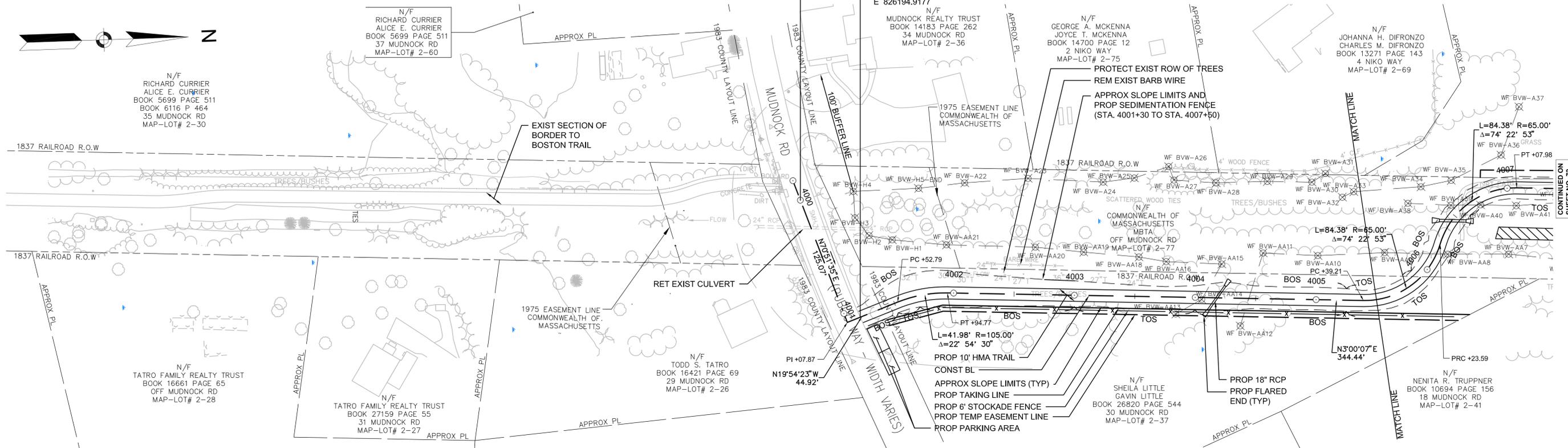
N/F  
TATRO FAMILY REALTY TRUST  
BOOK 16661 PAGE 65  
OFF MUDNOCK RD  
MAP-LOT# 2-28

N/F  
TATRO FAMILY REALTY TRUST  
BOOK 27159 PAGE 55  
31 MUDNOCK RD  
MAP-LOT# 2-27

N/F  
TODD S. TATRO  
BOOK 16421 PAGE 69  
29 MUDNOCK RD  
MAP-LOT# 2-26

N/F  
SHEILA LITTLE  
GAVIN LITTLE  
BOOK 26820 PAGE 544  
30 MUDNOCK RD  
MAP-LOT# 2-37

N/F  
NENITA R. TRUPPNER  
BOOK 10694 PAGE 156  
18 MUDNOCK RD  
MAP-LOT# 2-41



CONTINUED ON SHEET NO. 72

CONTINUED ON SHEET NO. 72

HIGHWAY GUARD DETAILS

SEE BELOW

TRAFFIC SIGNAL CONDUIT

SEE SHEET 89

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

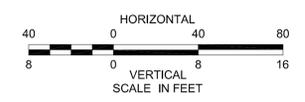
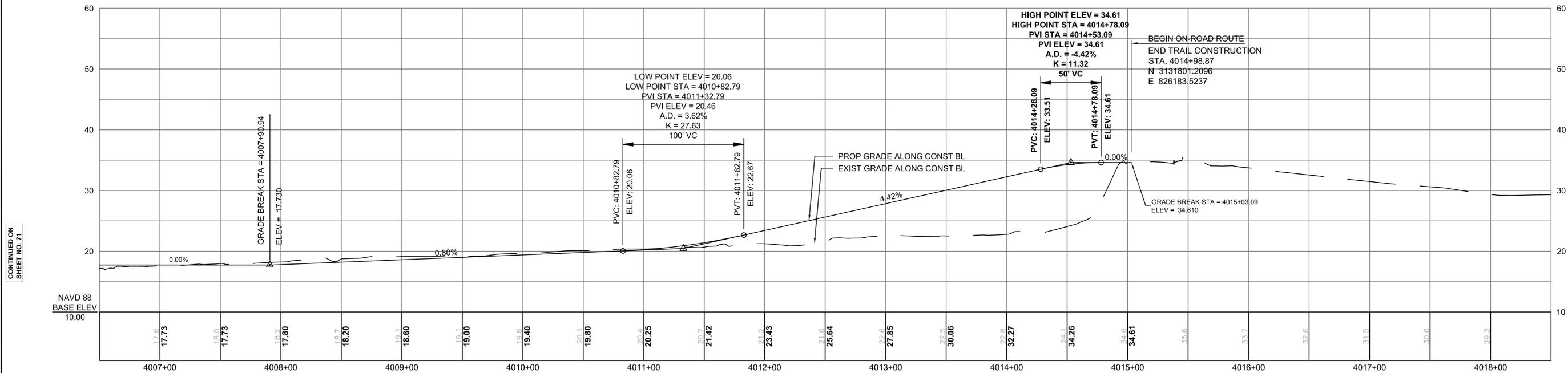
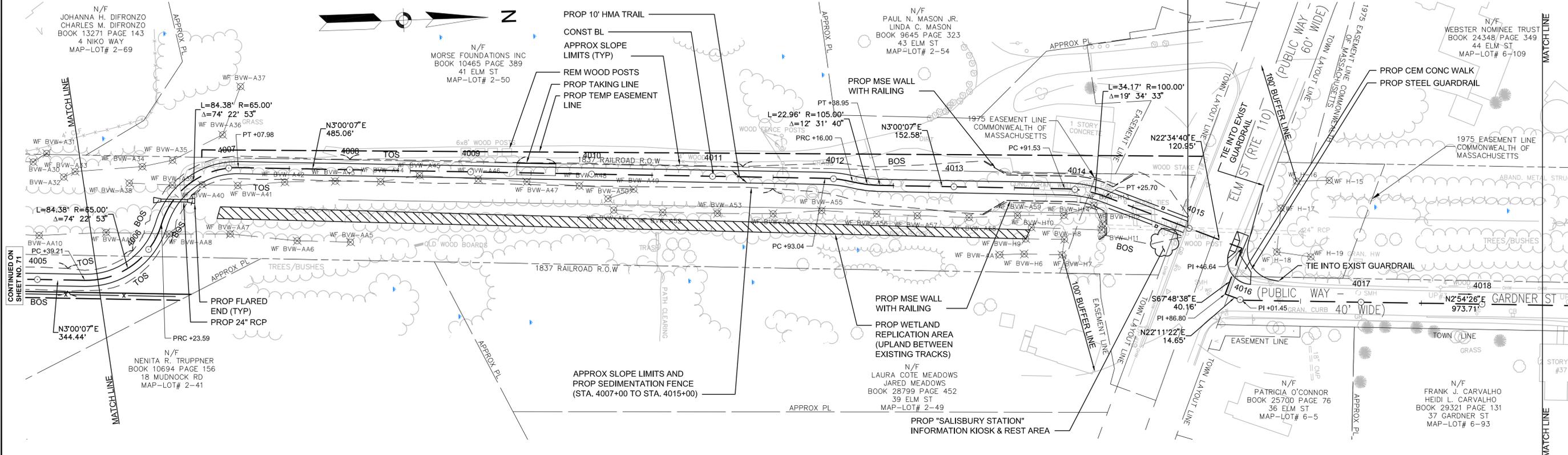
- 1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 2. \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	72	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE SALISBURY PART 2 OF 13

**BEGIN ON-ROAD ROUTE**  
**END TRAIL CONSTRUCTION**  
 STA. 4014+98.87  
 N 3131801.2096  
 E 826183.5237



CONTINUED ON SHEET NO. 71

CONTINUED ON SHEET NO. 73

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

BOXFORD/GEORGETOWN/NEWBURY/SALISBURY  
BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	73	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 3 OF 13

NOTES:

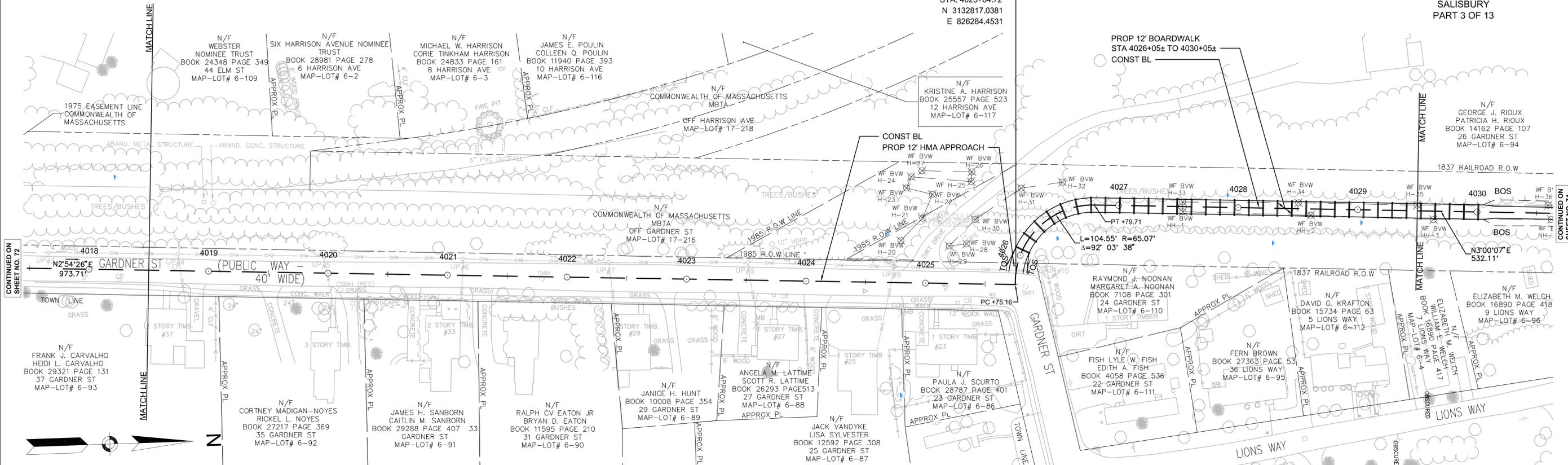
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

END ON-ROAD ROUTE  
BEGIN TRAIL CONSTRUCTION

STA. 4025+84.72  
N 3132817.0381  
E 826284.4531

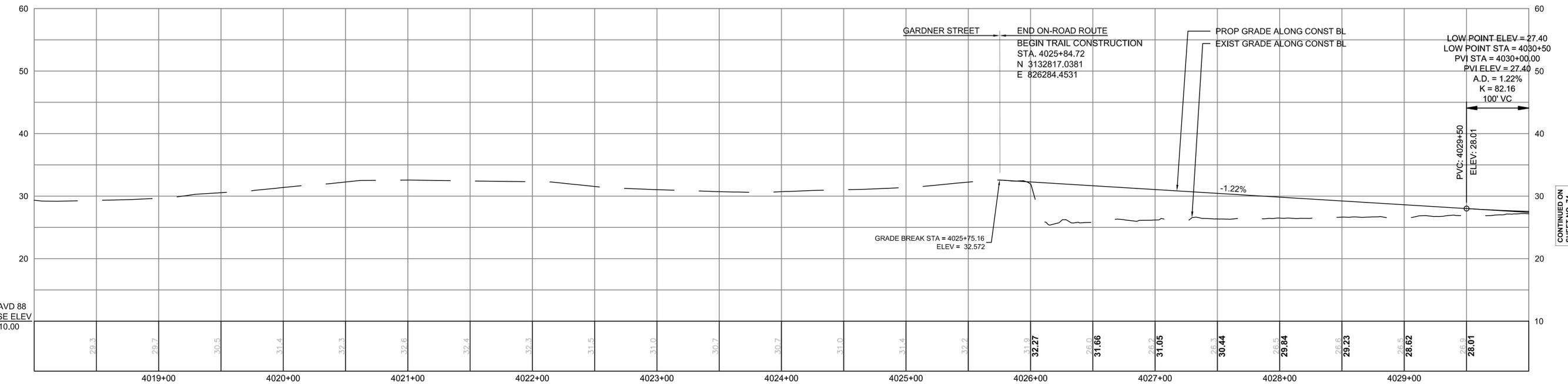
PROP 12' BOARDWALK  
STA 4026+05± TO 4030+05±  
CONST BL

CONST BL  
PROP 12' HMA APPROACH



CONTINUED ON  
SHEET NO. 72

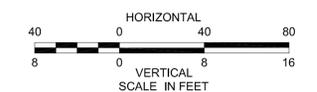
CONTINUED ON  
SHEET NO. 74



CONTINUED ON  
SHEET NO. 72

CONTINUED ON  
SHEET NO. 74

NAVD 88  
BASE ELEV  
10.00



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	74	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 4 OF 13

N/F  
ANNE G. JONES LIVING TRUST  
BOOK 26489 PAGE 174  
BOOK 26081 PAGE 151  
3 TRUE RD  
MAP-LOT# 17-62

N/F  
COMMONWEALTH OF MASSACHUSETTS  
MBTA  
OFF GARDNER ST  
MAP-LOT# 17-216

N/F  
EUGENIO REALTY LLC  
BOOK 29338 PAGE 329  
47 LAFAYETTE RD  
MAP-LOT# 17-58

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

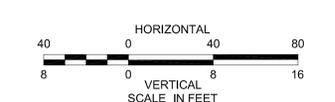
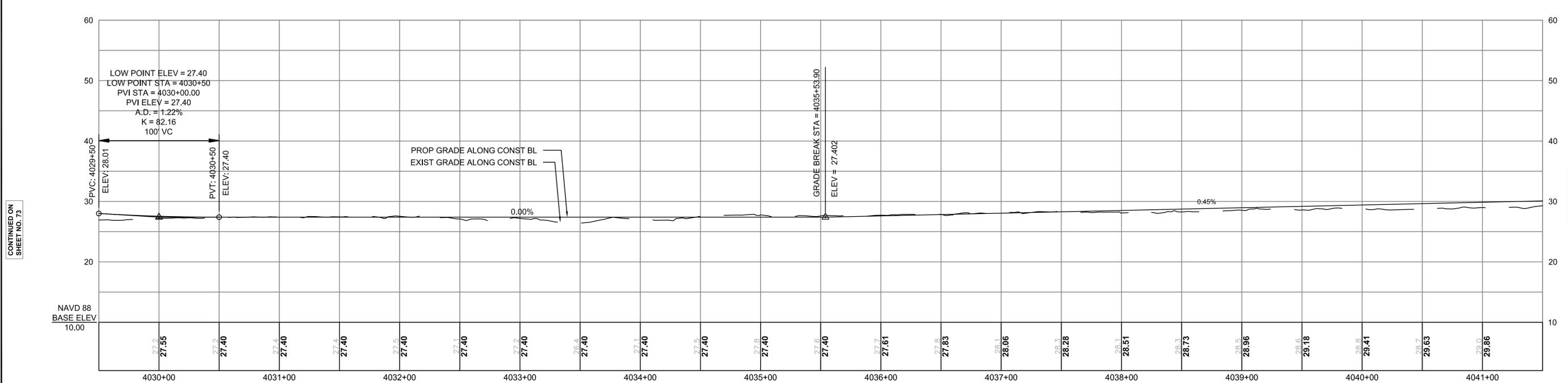
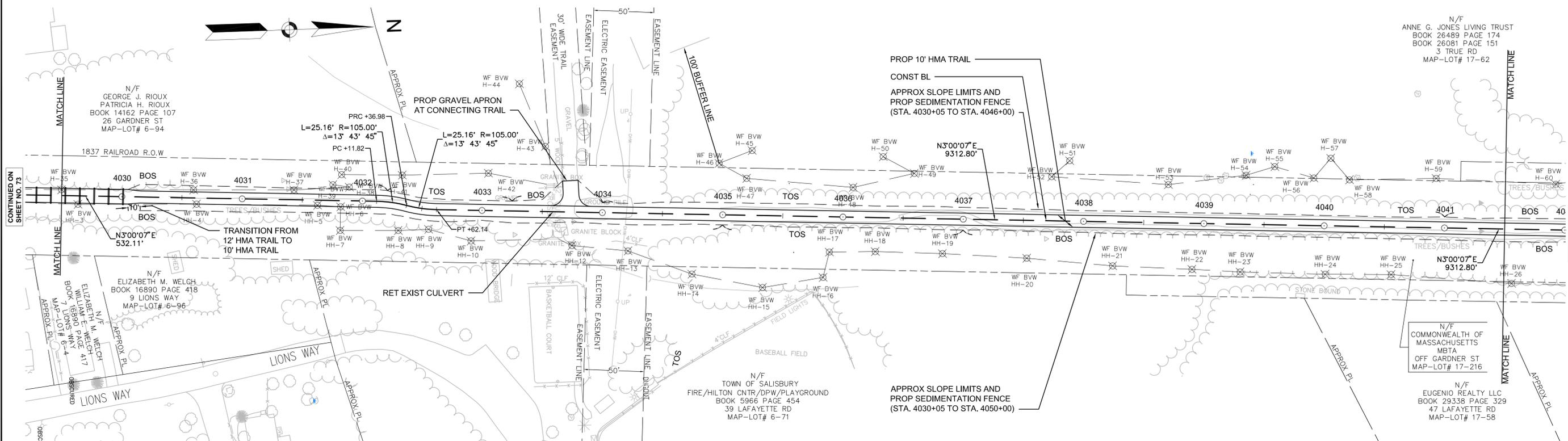
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 73

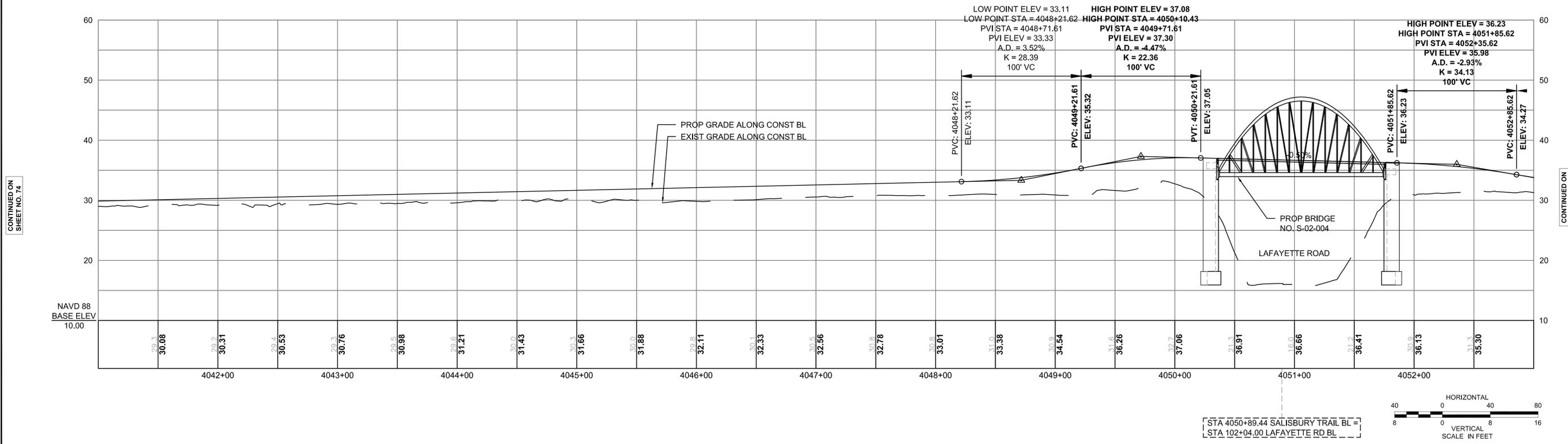
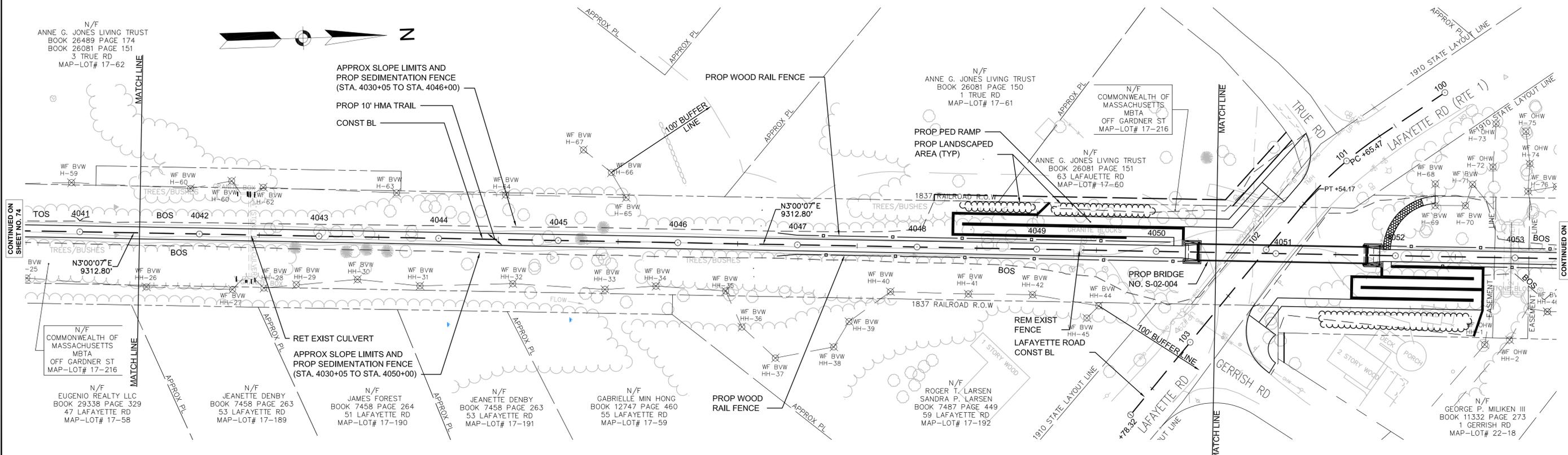
CONTINUED ON SHEET NO. 75

HIGHWAY GUARD DETAILS NONE  
 TRAFFIC SIGNAL CONDUIT NONE  
 WATER SUPPLY ALTERATIONS NONE  
 DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	75	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
 SALISBURY  
 PART 5 OF 13



CONTINUED ON SHEET NO. 74

CONTINUED ON SHEET NO. 76

CONTINUED ON SHEET NO. 74

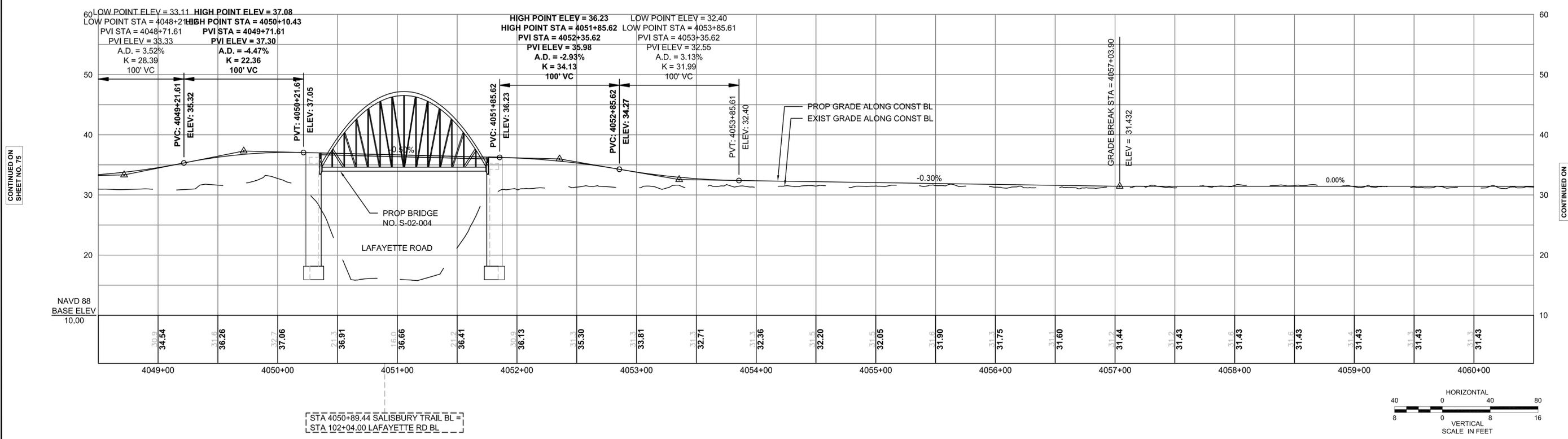
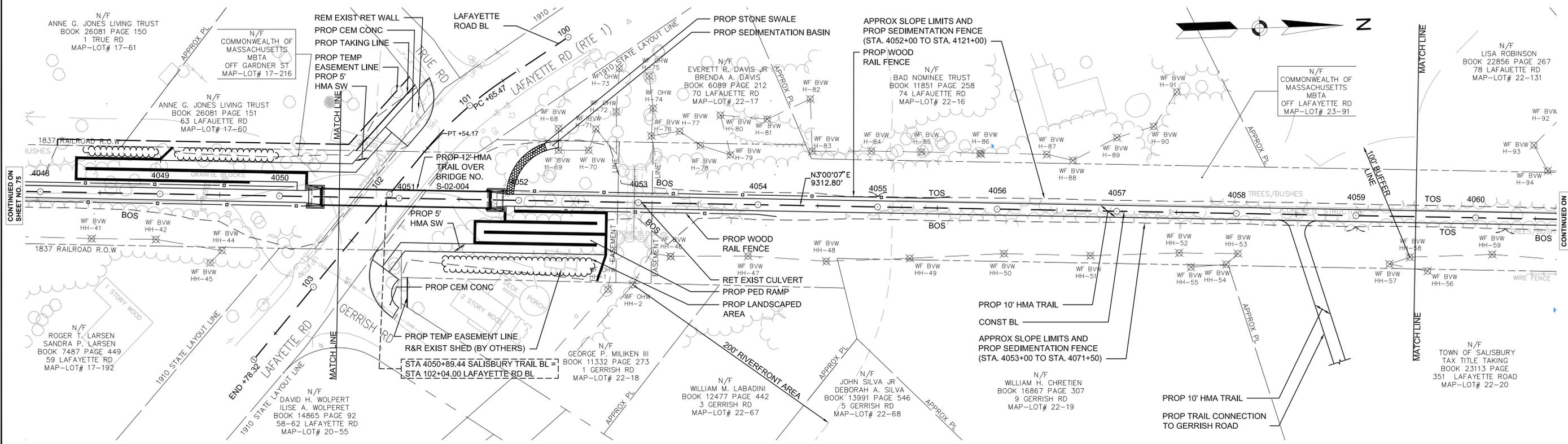
CONTINUED ON SHEET NO. 76

HIGHWAY GUARD DETAILS NONE  
 TRAFFIC SIGNAL CONDUIT NONE  
 WATER SUPPLY ALTERATIONS NONE  
 DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	76	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
 SALISBURY  
 PART 6 OF 13



STA 4050+89.44 SALISBURY TRAIL BL =  
 STA 102+04.00 LAFAYETTE RD BL

CONTINUED ON  
 SHEET NO. 75

CONTINUED ON  
 SHEET NO. 77

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	77	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 7 OF 13

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

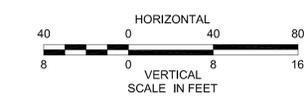
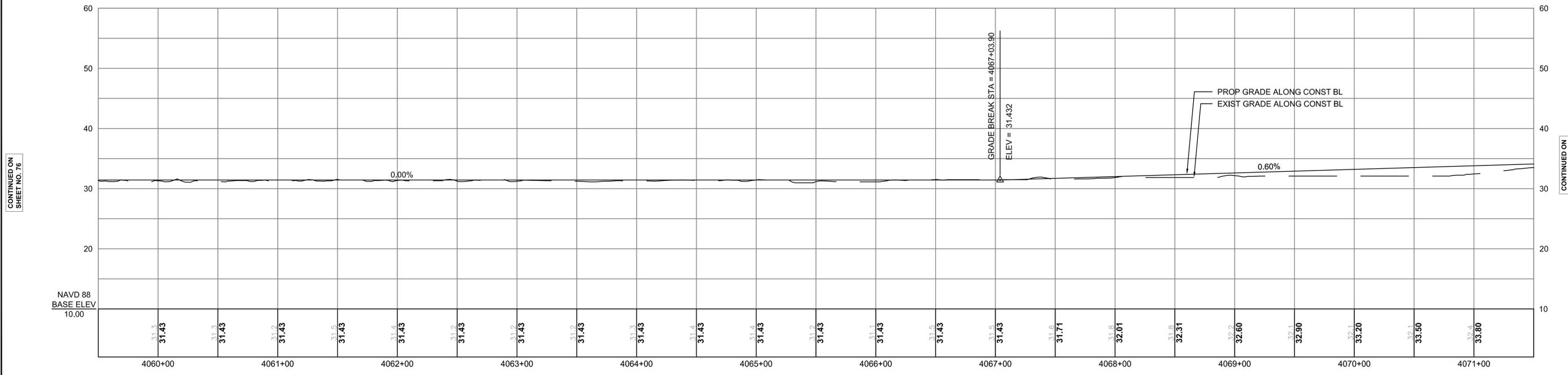
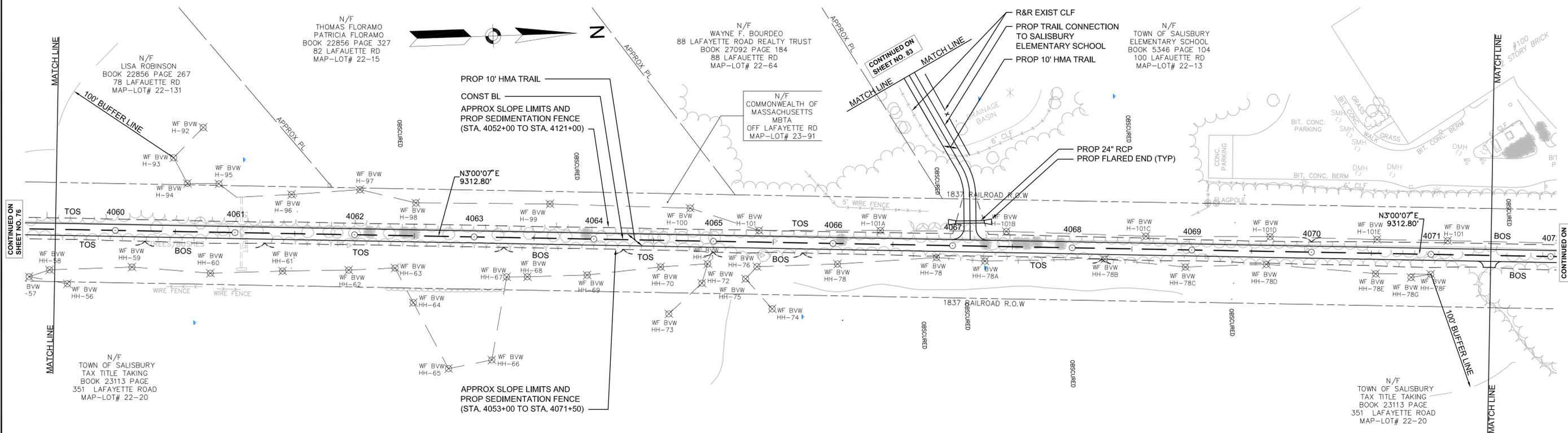
NONE

DRAINAGE DETAILS

SEE BELOW

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON  
SHEET NO. 76

CONTINUED ON  
SHEET NO. 78



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	79	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 9 OF 13

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

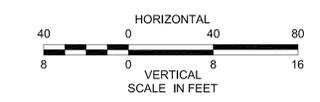
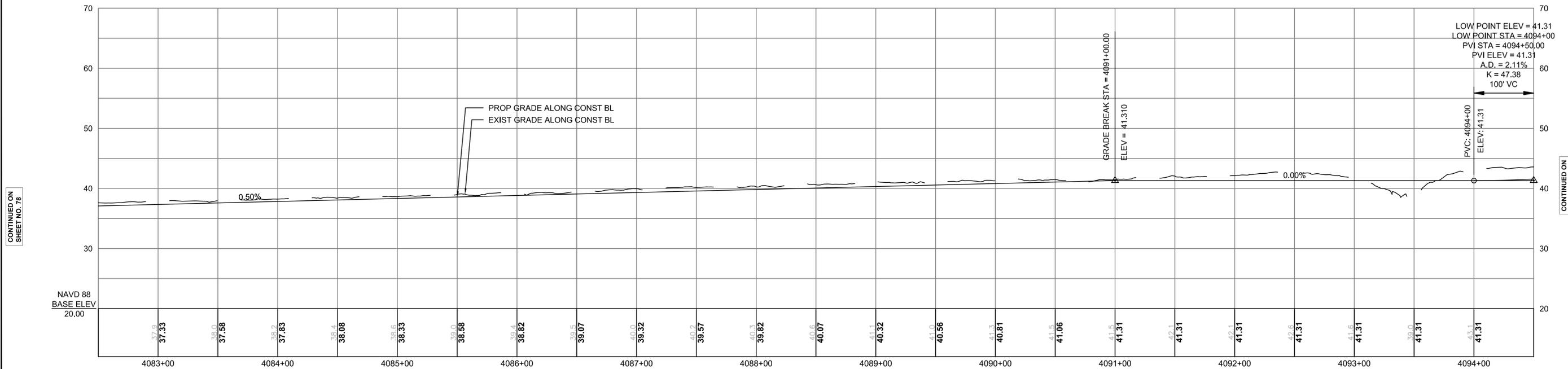
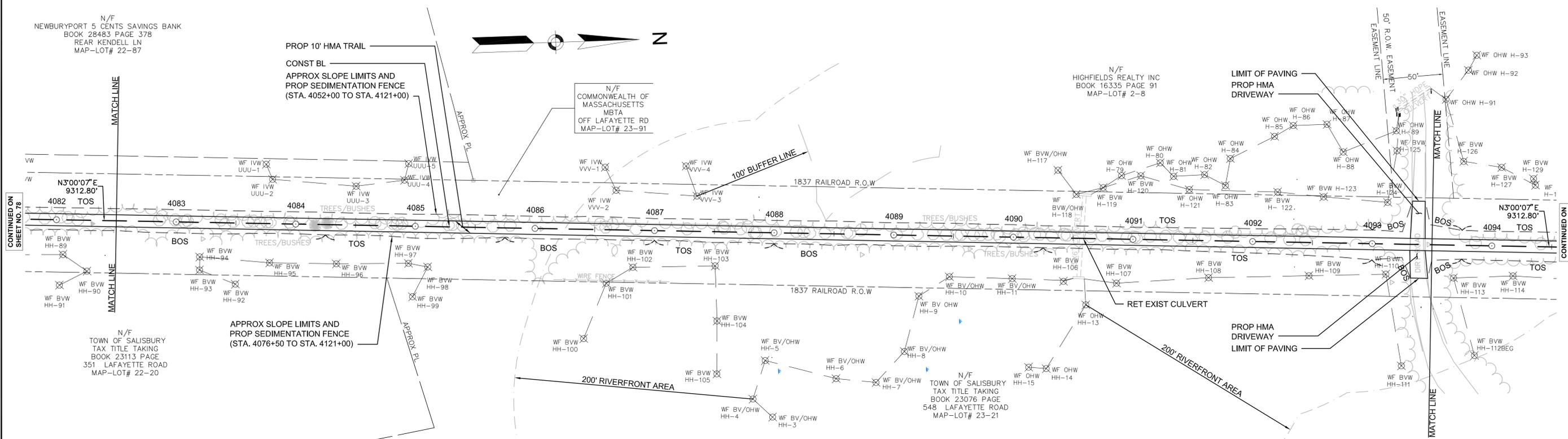
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)



CONTINUED ON SHEET NO. 78

CONTINUED ON SHEET NO. 80

CONTINUED ON SHEET NO. 78

CONTINUED ON SHEET NO. 80

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	80	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 10 OF 13

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

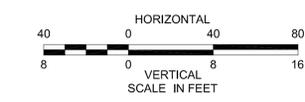
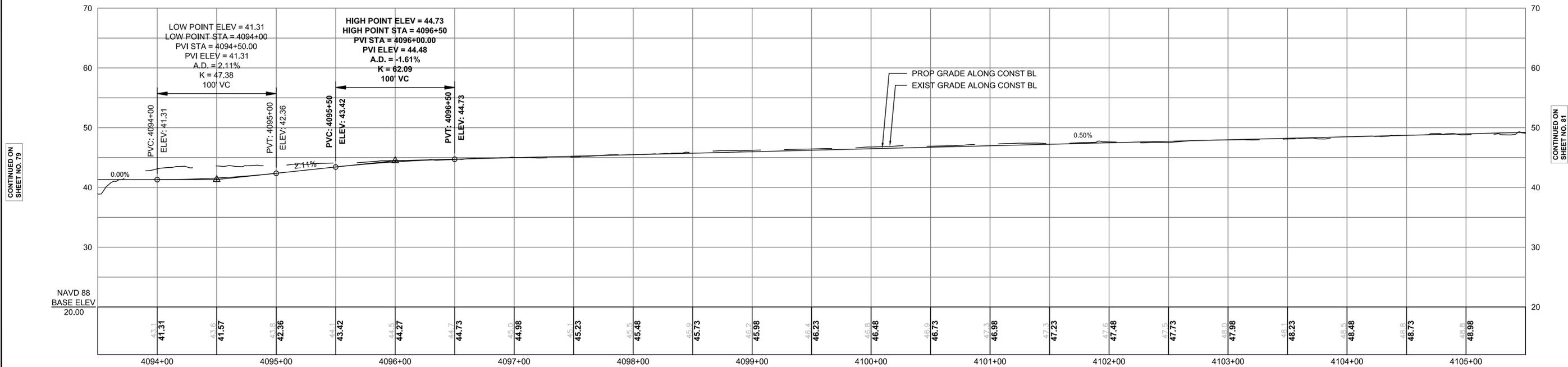
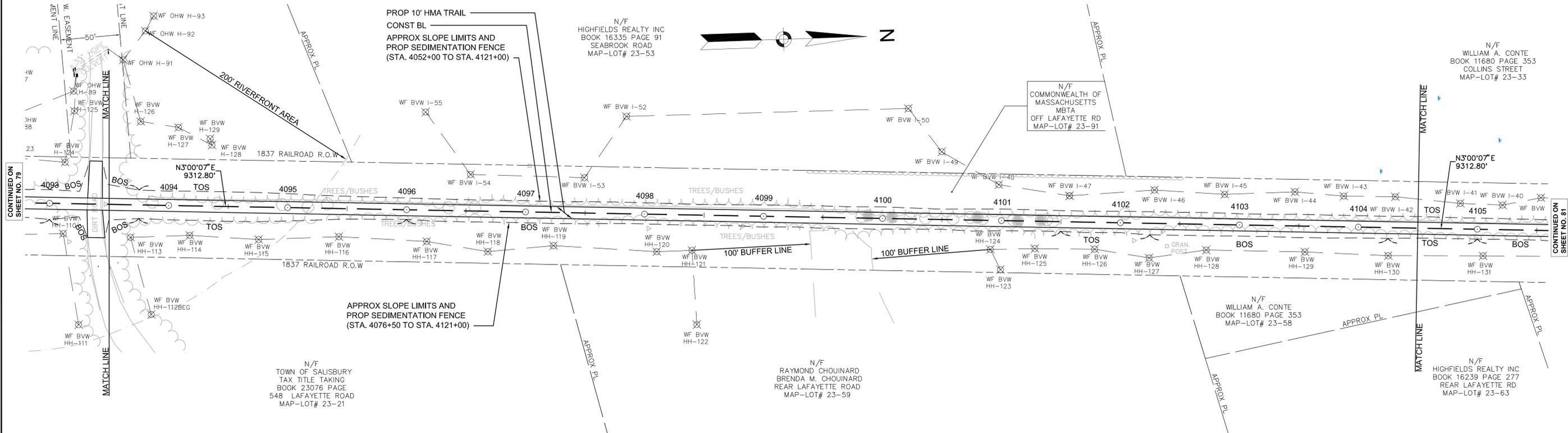
NONE

DRAINAGE DETAILS

NONE

NOTES:

- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)



CONTINUED ON SHEET NO. 79

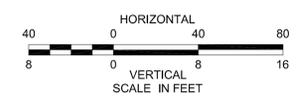
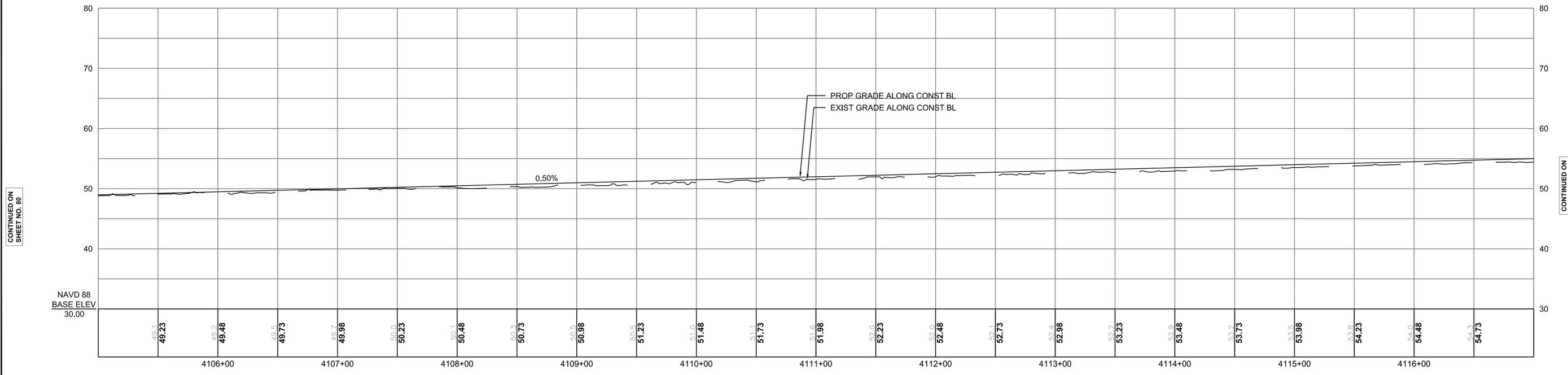
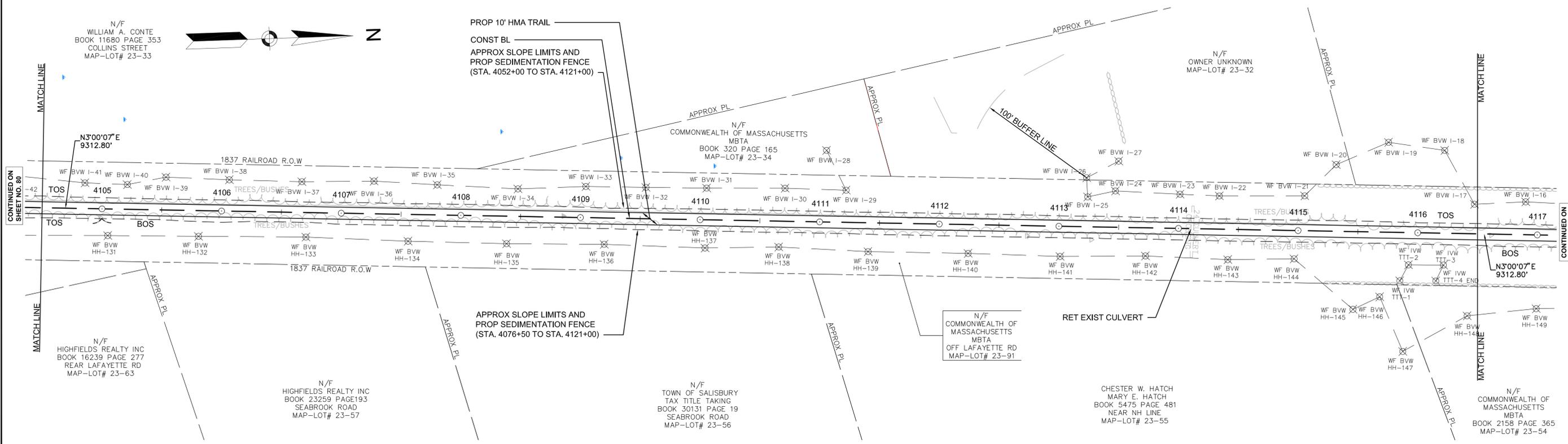
CONTINUED ON SHEET NO. 81

HIGHWAY GUARD DETAILS NONE  
 TRAFFIC SIGNAL CONDUIT NONE  
 WATER SUPPLY ALTERATIONS NONE  
 DRAINAGE DETAILS NONE

- NOTES:
- ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
  - \* TOLERANCE FOR CONSTRUCTION  $\pm 0.5\%$  (TYP)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	81	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
 SALISBURY  
 PART 11 OF 13



CONTINUED ON SHEET NO. 80

CONTINUED ON SHEET NO. 82

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

NOTES:

1. ALL RAILROAD TIES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. \* TOLERANCE FOR CONSTRUCTION ± 0.5% (TYP)

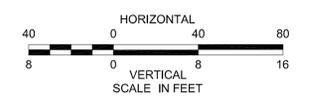
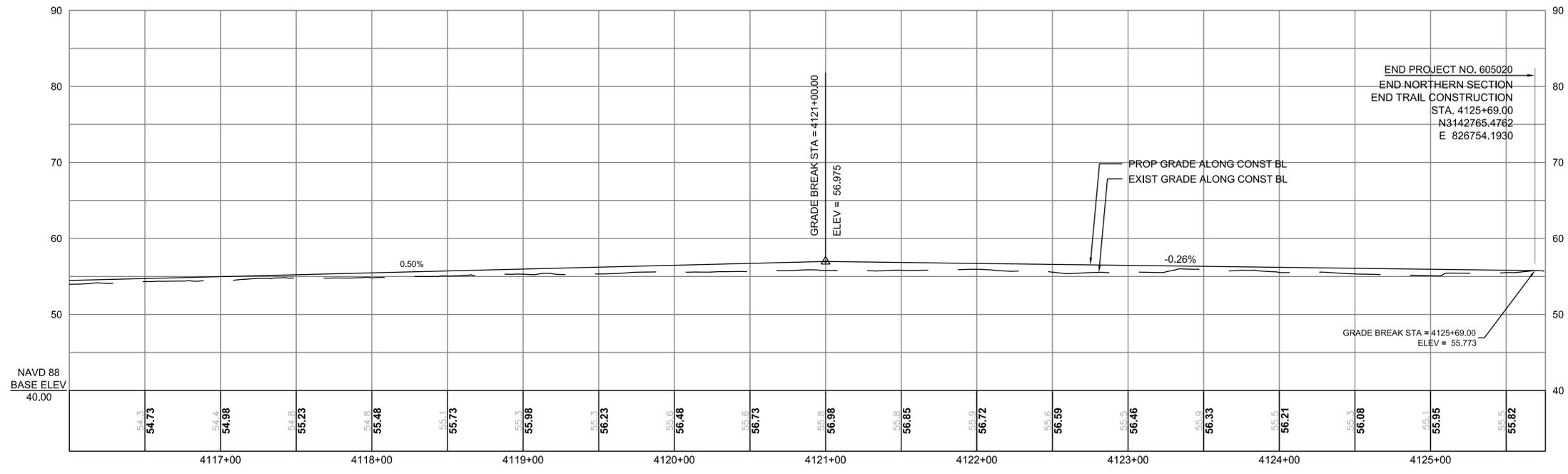
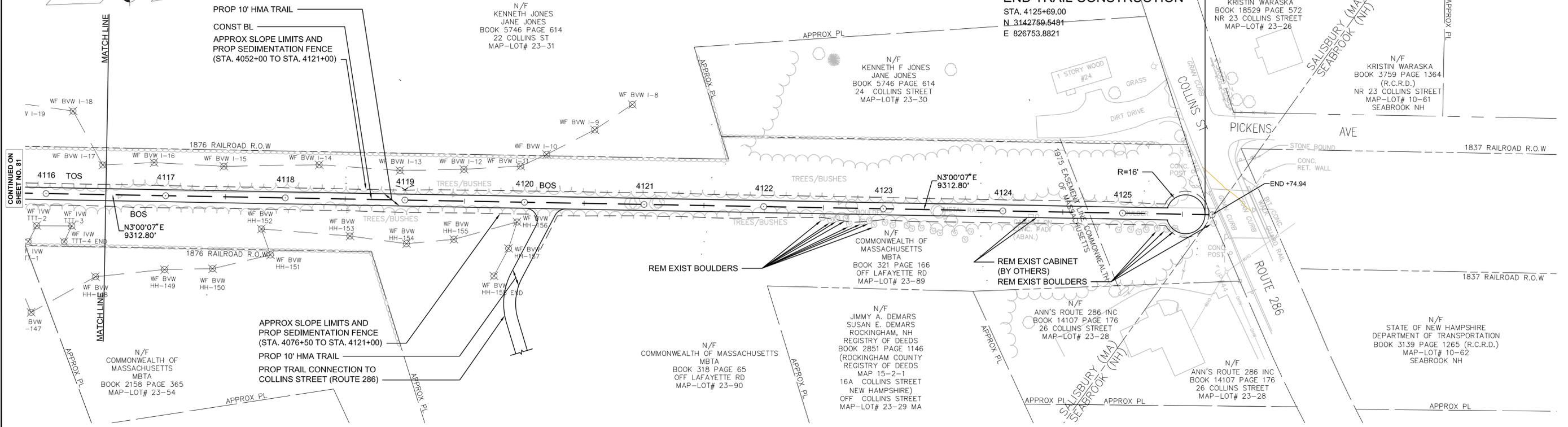
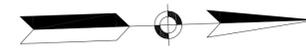
BOXFORD/GEORGETOWN/NEWBURY/SALISBURY BORDER TO BOSTON TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	82	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE SALISBURY PART 12 OF 13

END PROJECT NO. 605020  
 END NORTHERN SECTION  
 END TRAIL CONSTRUCTION

STA. 4125+69.00  
 N 3142759.5481  
 E 826753.8821



CONTINUED ON SHEET NO. 81

CONTINUED ON SHEET NO. 81

605020.DWG CONST PLANS SALISBURY.DWG [SAL 12] 2012-Aug-20

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

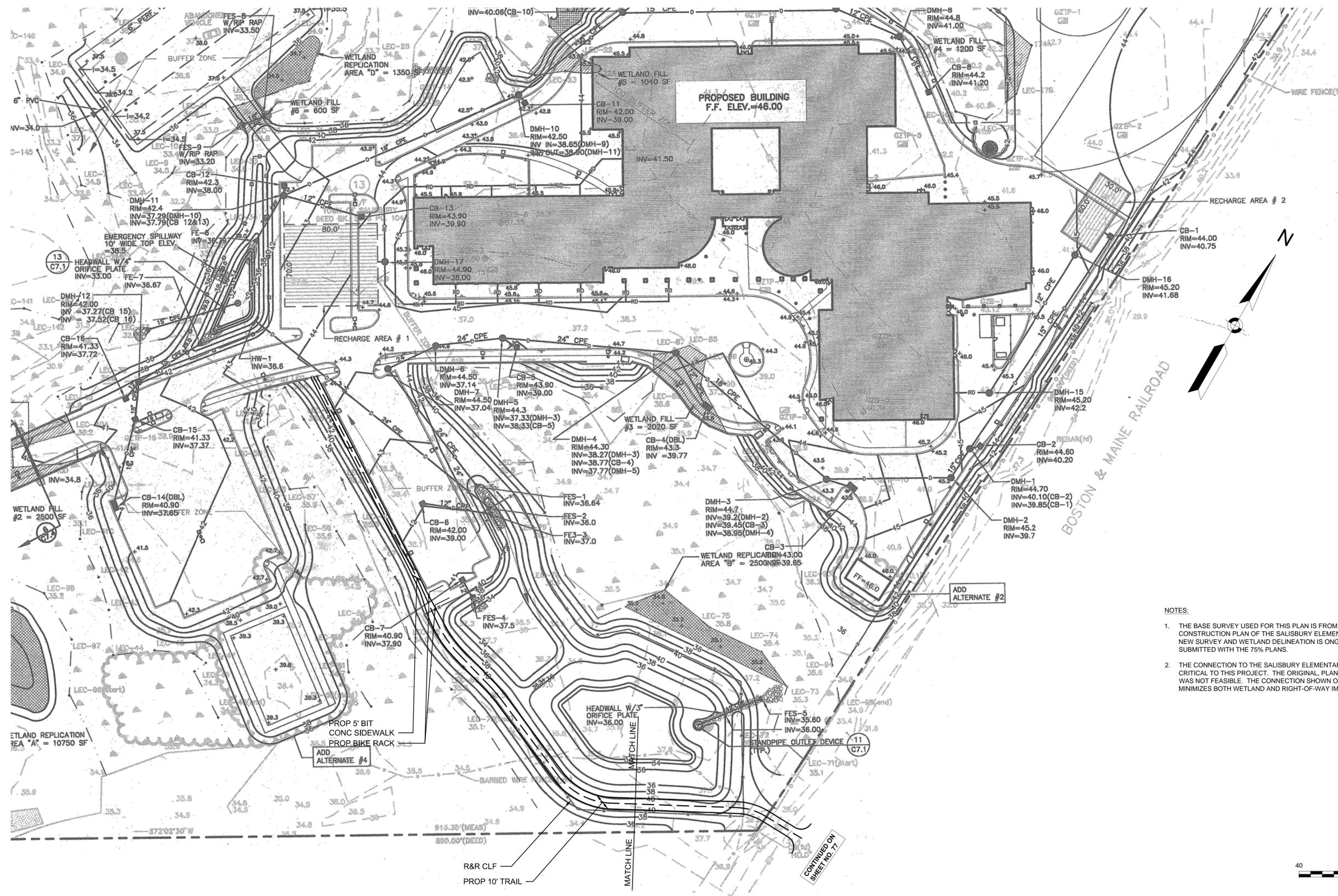
NONE

DRAINAGE DETAILS

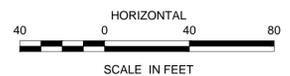
NONE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		83	106
PROJECT FILE NO.		605020	

CONSTRUCTION PLAN AND PROFILE  
SALISBURY  
PART 13 OF 13



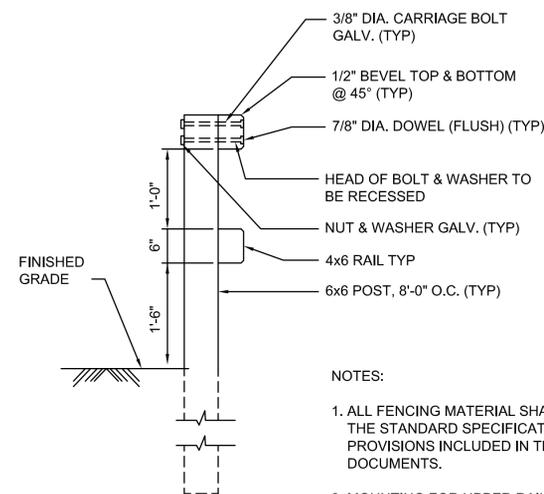
- NOTES:
1. THE BASE SURVEY USED FOR THIS PLAN IS FROM THE CONSTRUCTION PLAN OF THE SALISBURY ELEMENTARY SCHOOL. NEW SURVEY AND WETLAND DELINEATION IS ONGOING AND WILL BE SUBMITTED WITH THE 75% PLANS.
  2. THE CONNECTION TO THE SALISBURY ELEMENTARY SCHOOL IS CRITICAL TO THIS PROJECT. THE ORIGINAL, PLANNED CONNECTION WAS NOT FEASIBLE. THE CONNECTION SHOWN ON THIS PLAN MINIMIZES BOTH WETLAND AND RIGHT-OF-WAY IMPACTS.



605020.DWG [SAL 13] 2012-JUL-19

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	84	106
PROJECT FILE NO.		605020	

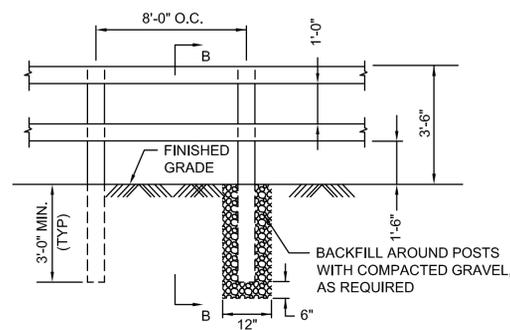
CONSTRUCTION DETAILS  
PART 1 OF 2



**SECTION B-B**

NOTES:

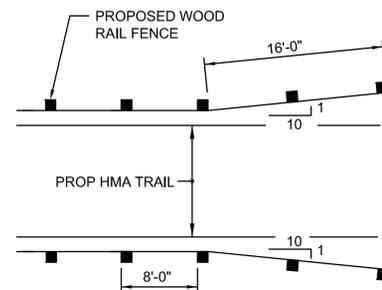
1. ALL FENCING MATERIAL SHALL CONFORM TO THE STANDARD SPECIFICATIONS & SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. MOUNTING FOR UPPER RAIL IS SHOWN ON SECTION B-B. MOUNT LOWER RAIL IN SIMILAR FASHION.



**ELEVATION**

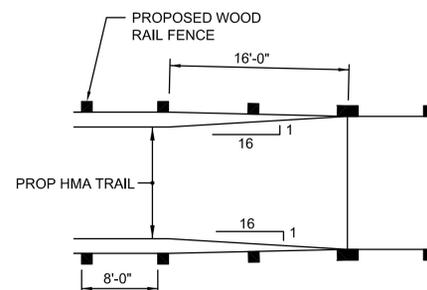
**WOOD RAIL FENCE**

NOT TO SCALE



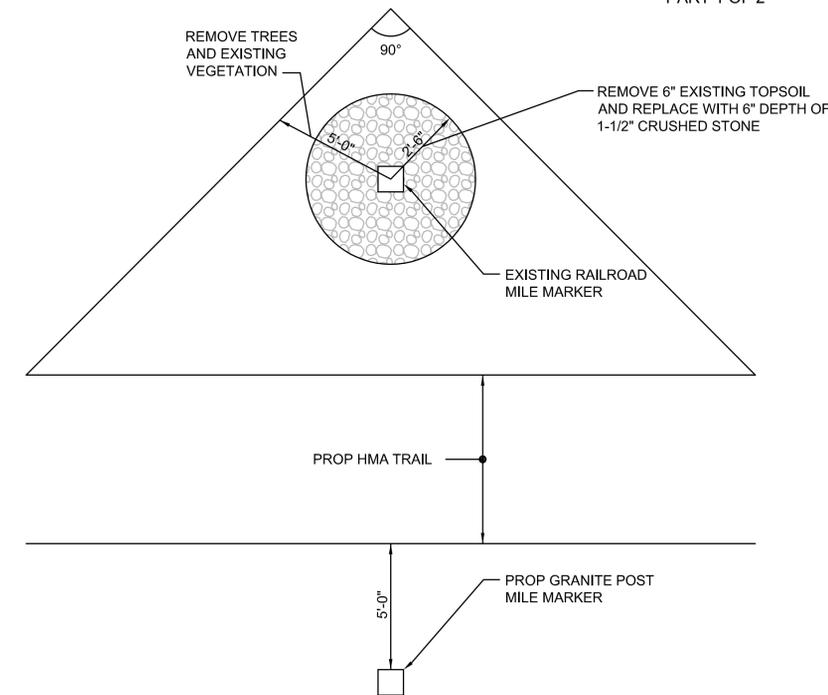
**WOOD RAIL FENCE FLARED-END TREATMENT**

NOT TO SCALE



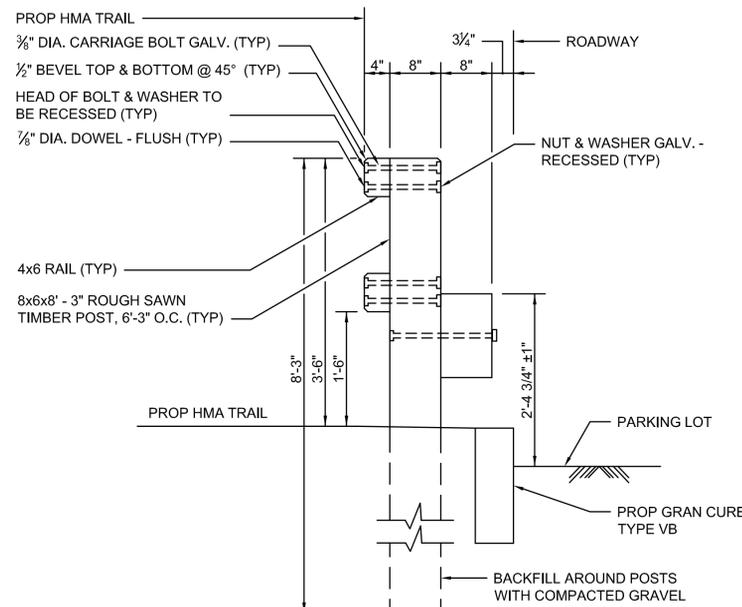
**WOOD RAIL FENCE TRANSITION AT  
CULVERT CROSSING AND ROUTE 1 BRIDGE**

NOT TO SCALE



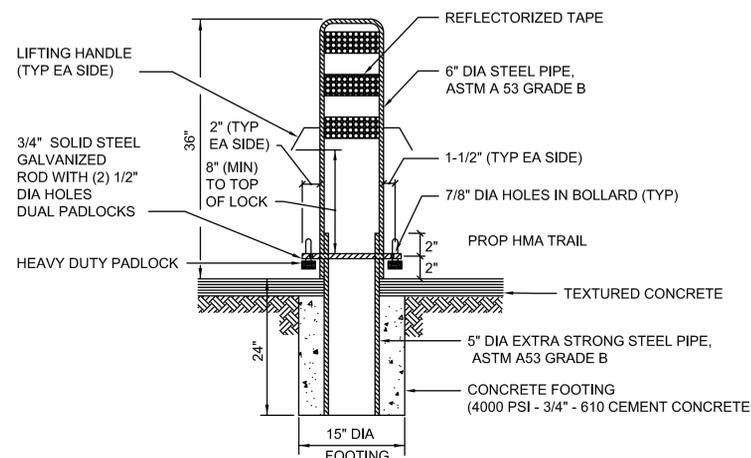
**EXISTING RAILROAD MILE MARKER TREATMENT**

NOT TO SCALE



**WOOD RAIL FENCE / WOOD GUARDRAIL DETAIL**

NOT TO SCALE

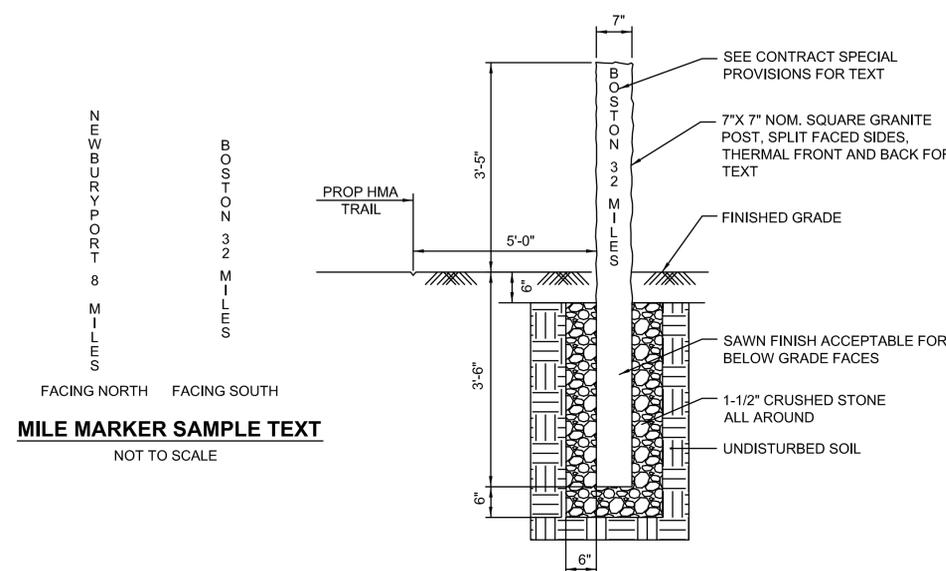


**REMOVABLE BARRIER POST (BOLLARD)**

NOT TO SCALE

PAINT NOTES:

1. PRIMER COAT-BASIC ZINC SILICO CHROMATE PAINT
2. FINAL COAT-BRIGHT YELLOW ENAMEL FOR VISIBILITY
3. FURNISH WITH REFLECTORIZED TAPE TO ENHANCE VISIBILITY



**GRANITE POST MILE MARKER - SETTING DETAIL**

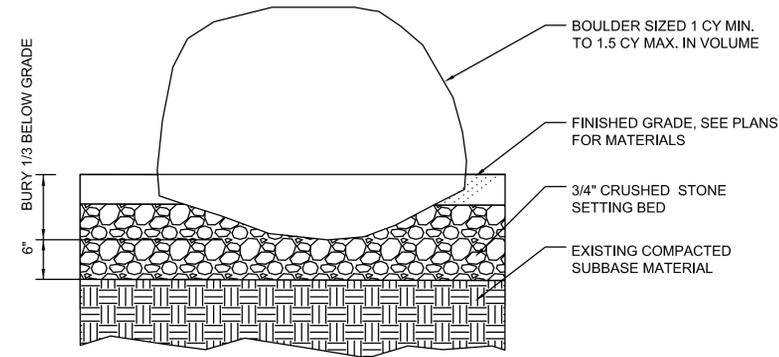
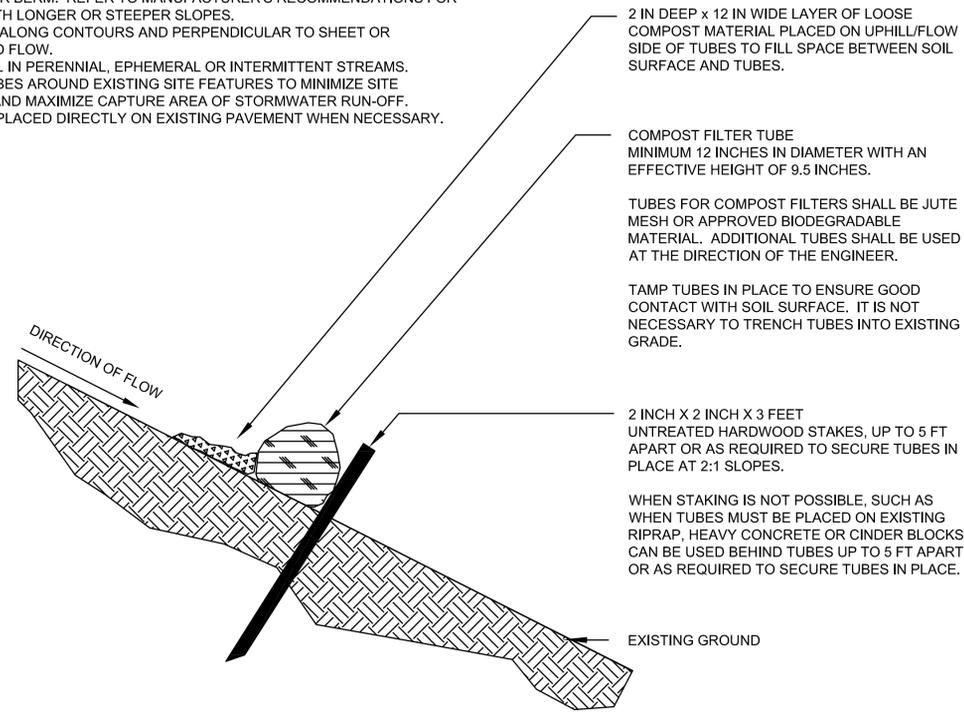
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	85	106
PROJECT FILE NO.		605020	

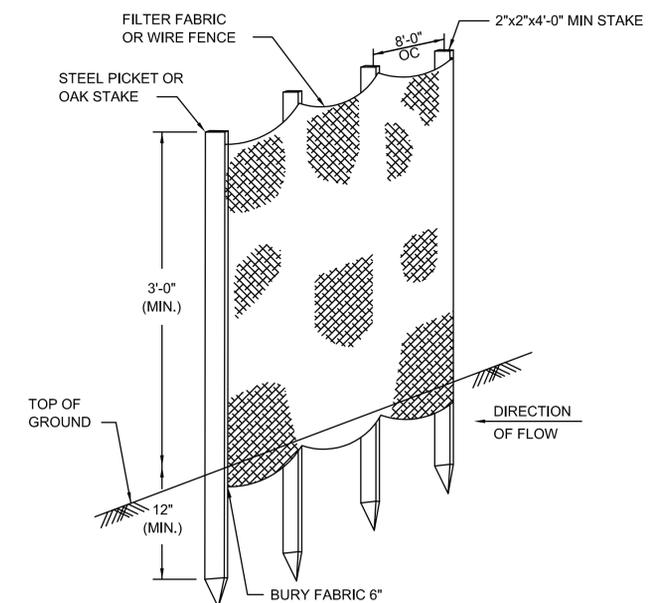
CONSTRUCTION DETAILS  
PART 2 OF 2

GENERAL NOTES:

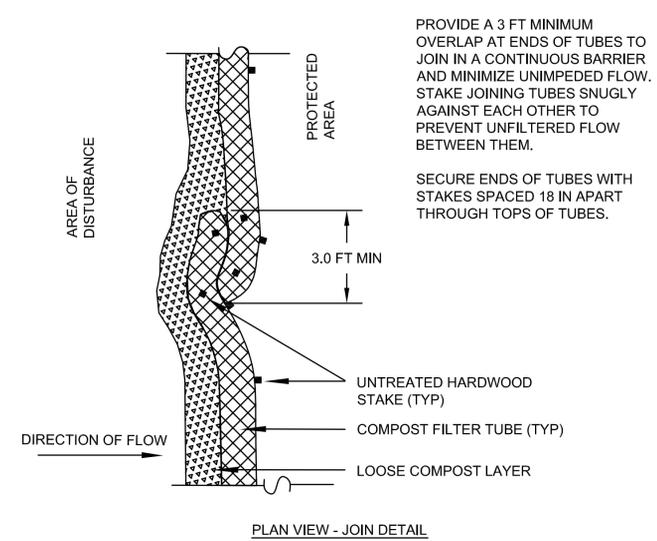
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.
5. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.



TYPICAL BOULDER SETTING DETAIL  
NOT TO SCALE

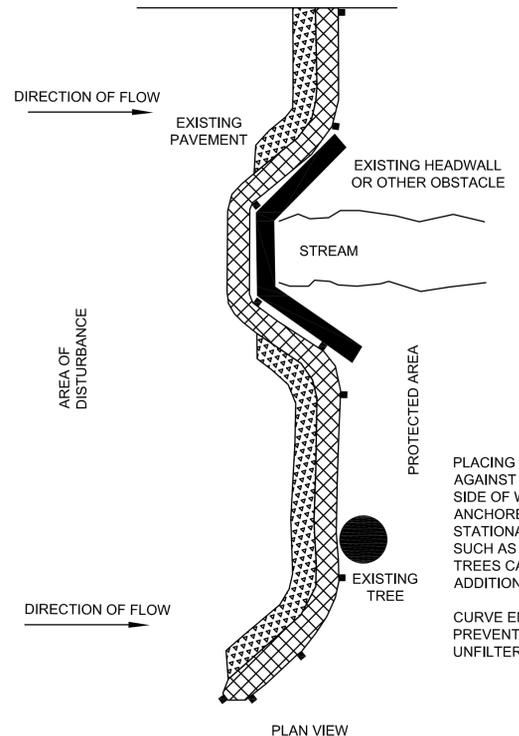


SEDIMENTATION FENCE DETAIL  
NOT TO SCALE



PROVIDE A 3 FT MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

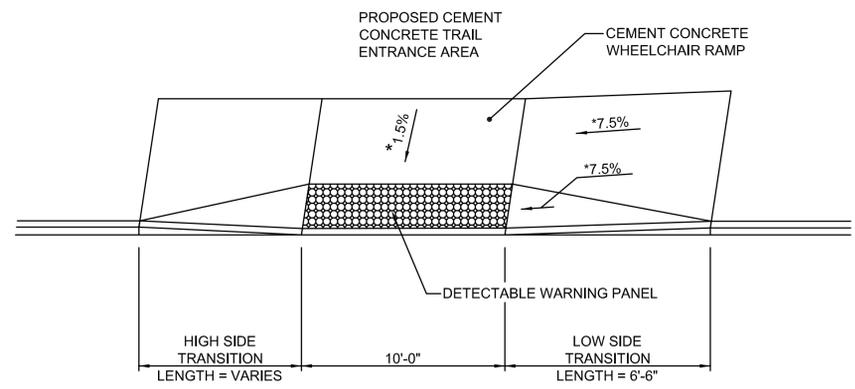
SECURE ENDS OF TUBES WITH STAKES SPACED 18 IN APART THROUGH TOPS OF TUBES.



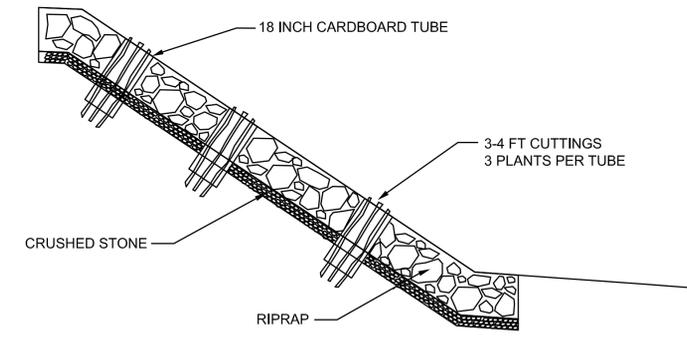
PLACING TUBES AGAINST THE UPHILL SIDE OF WELL-ANCHORED, STATIONARY FEATURES SUCH AS EXISTING TREES CAN PROVIDE ADDITIONAL BRACING.

CURVE ENDS UPHILL TO PREVENT DIVERSION OF UNFILTERED RUN-OFF.

12" COMPOST FILTER TUBE DETAILS  
NOT TO SCALE



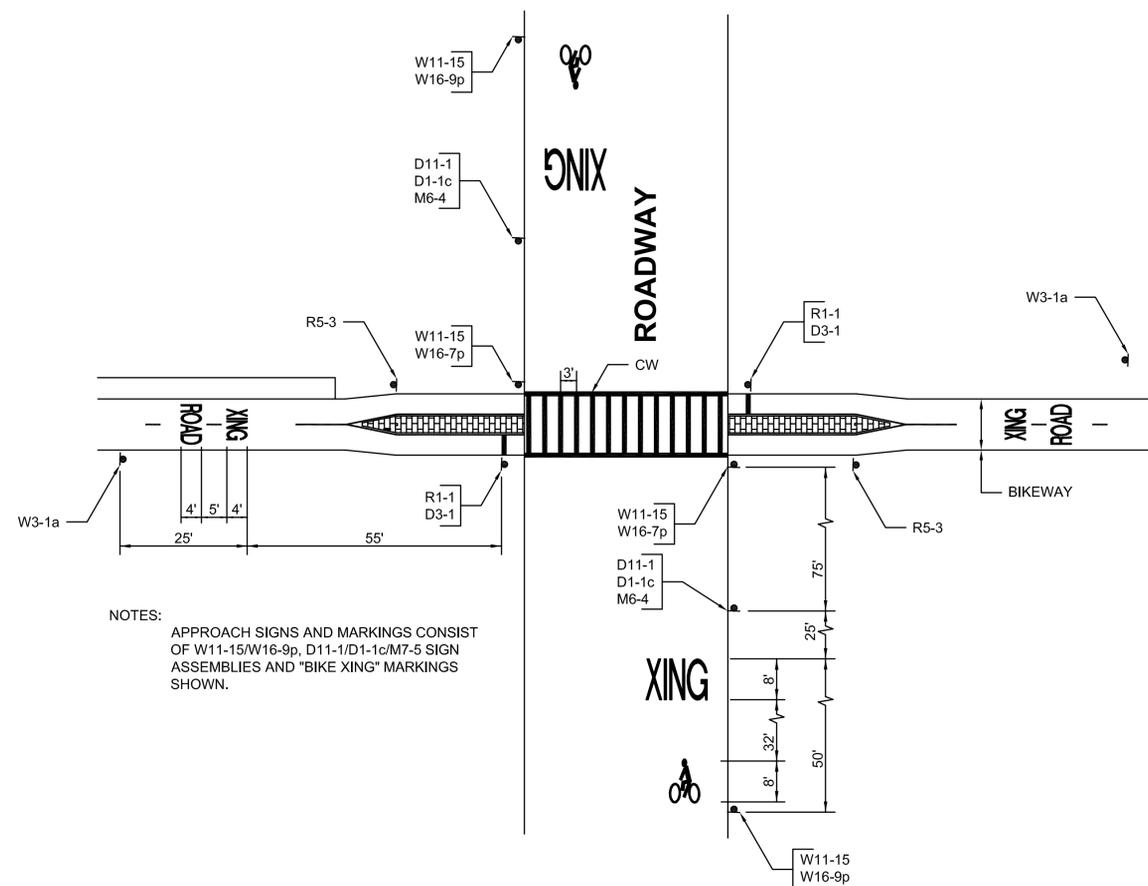
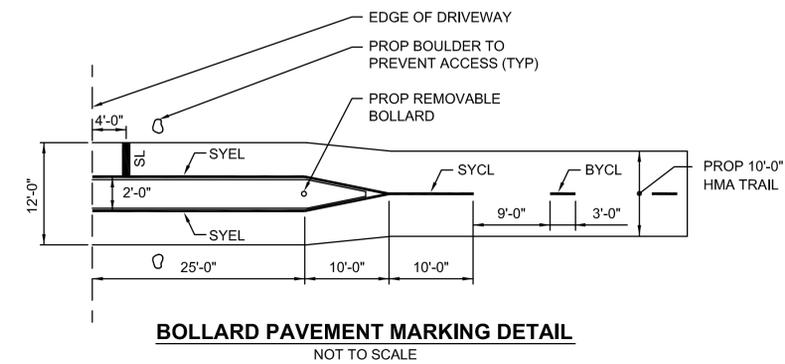
WHEELCHAIR RAMP DETAIL  
NOT TO SCALE



COMPOSTED MULCH RIPRAP DETAIL  
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	86	106
PROJECT FILE NO.		605020	

TRAFFIC DETAILS



NOTES:  
APPROACH SIGNS AND MARKINGS CONSIST OF W11-15/W16-9p, D11-1/D1-1c/M7-5 SIGN ASSEMBLIES AND "BIKE XING" MARKINGS SHOWN.

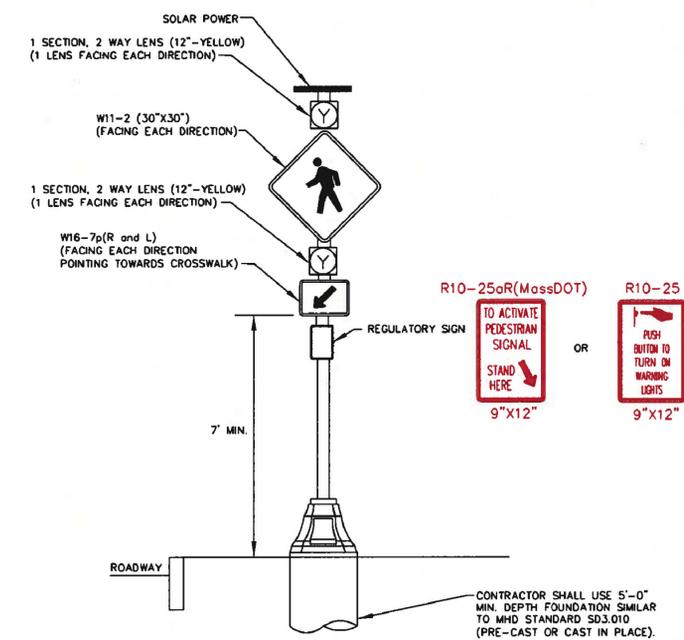
COMMONWEALTH OF MASSACHUSETTS

MassDOT Highway Division

**PEDESTRIAN CROSSWALK FLASHER**

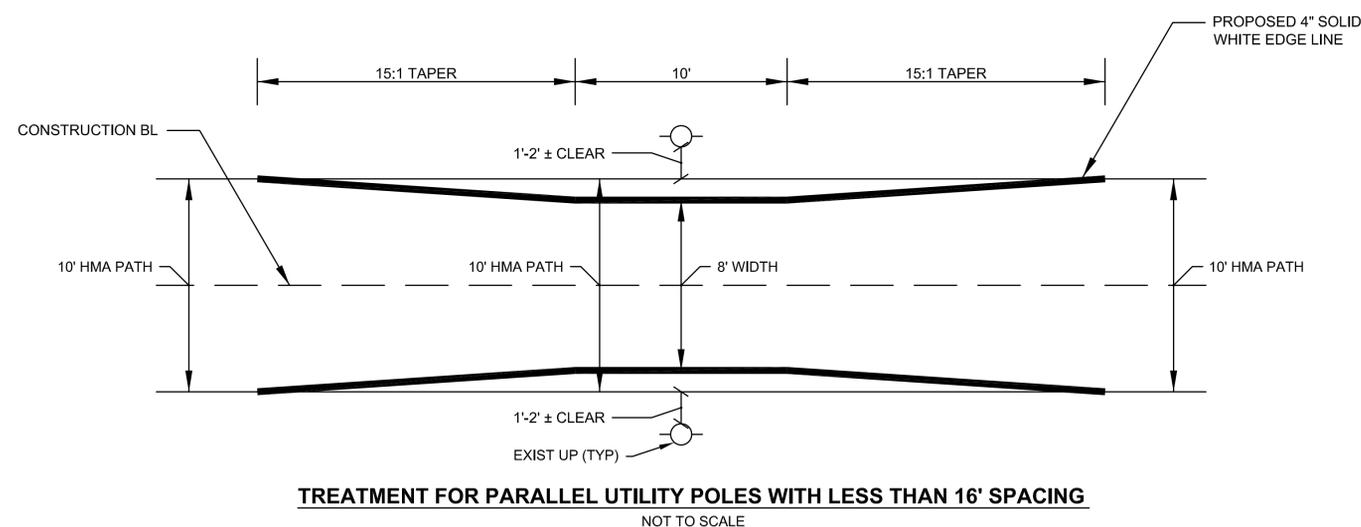
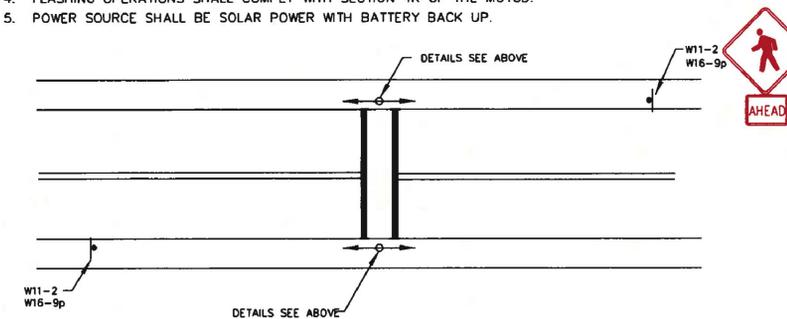
SCALE: NTS

Date: 4/27/10



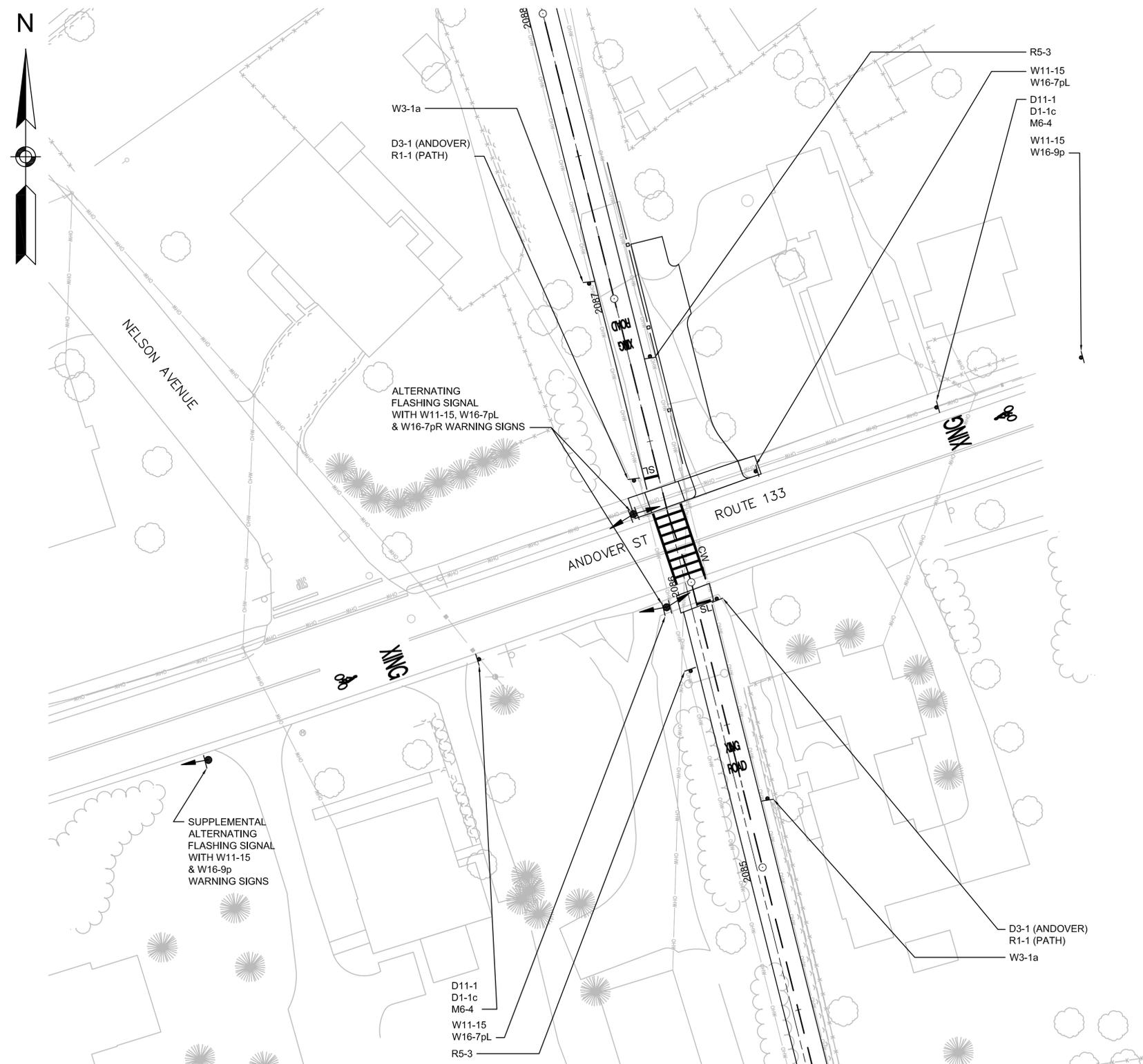
NOTES:

1. DETECTION TYPE CAN BE EITHER PUSH BUTTON, MICROWAVE OR VIDEO.
2. THE BEACON SHALL PROVIDE FLASHING OPERATION UPON ACTUATION.
3. CONTROLLER SHALL BE POLE MOUNTED AND WIRELESS COMMUNICATION BETWEEN EACH FLASHING BEACON.
4. FLASHING OPERATIONS SHALL COMPLY WITH SECTION 4K OF THE MUTCD.
5. POWER SOURCE SHALL BE SOLAR POWER WITH BATTERY BACK UP.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	87	106
PROJECT FILE NO.		605020	

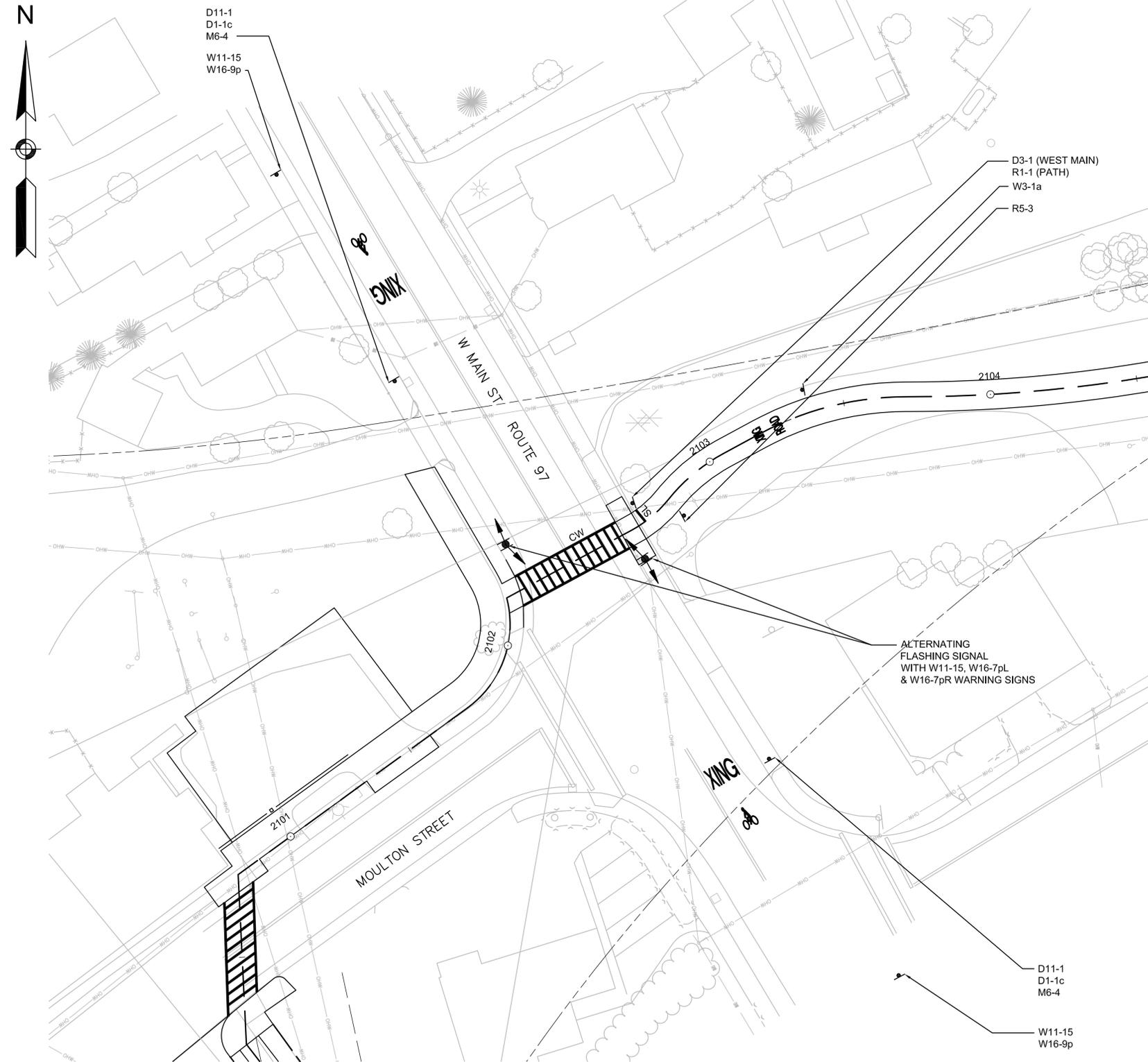
MAJOR ROADWAY CROSSING PLANS  
PART 1 OF 3



TRAFFIC SIGN AND PAVEMENT MARKING PLAN  
ROUTE 133 (ANDOVER STREET) - GEORGETOWN  
SCALE: 1"=20'

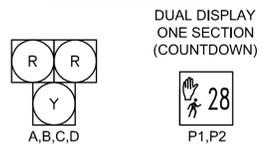
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	88	106
PROJECT FILE NO.		605020	

MAJOR ROADWAY CROSSING PLANS  
PART 2 OF 3

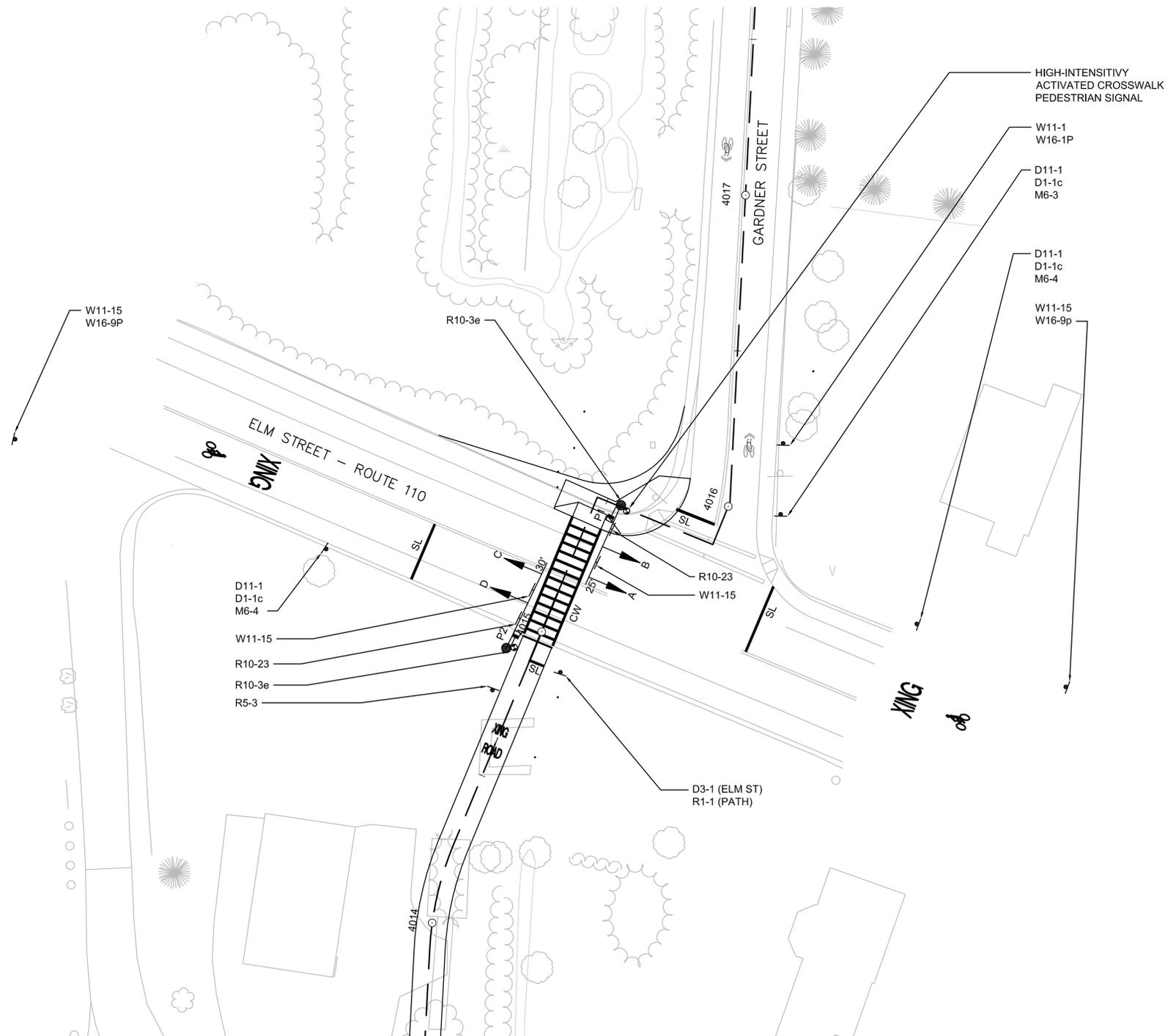


TRAFFIC SIGN AND PAVEMENT MARKING PLAN  
ROUTE 97 (WEST MAIN STREET) - GEORGETOWN  
SCALE: 1"=20'

**SIGNAL FACES**



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	89	106
PROJECT FILE NO.		605020	

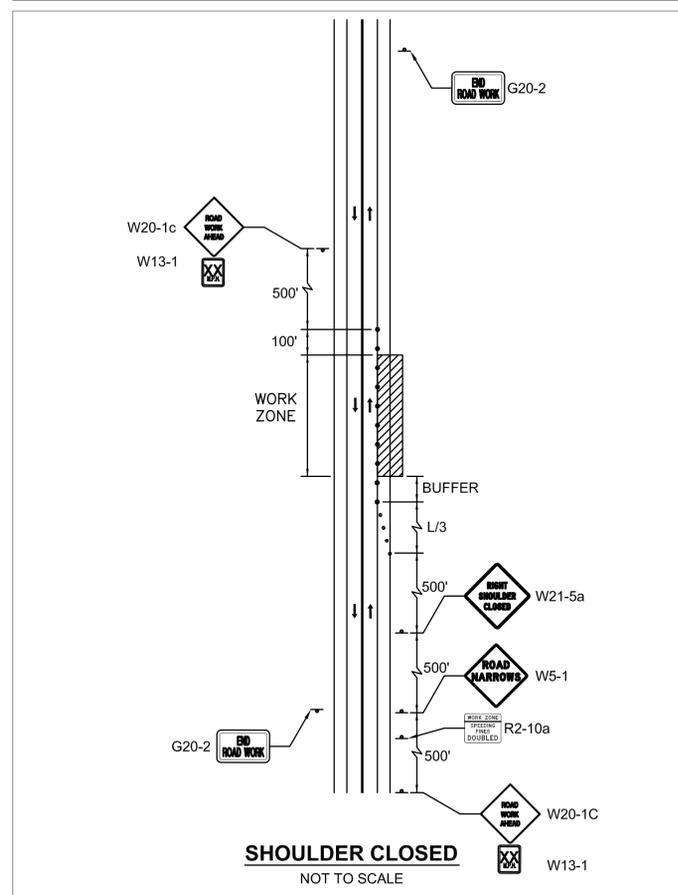
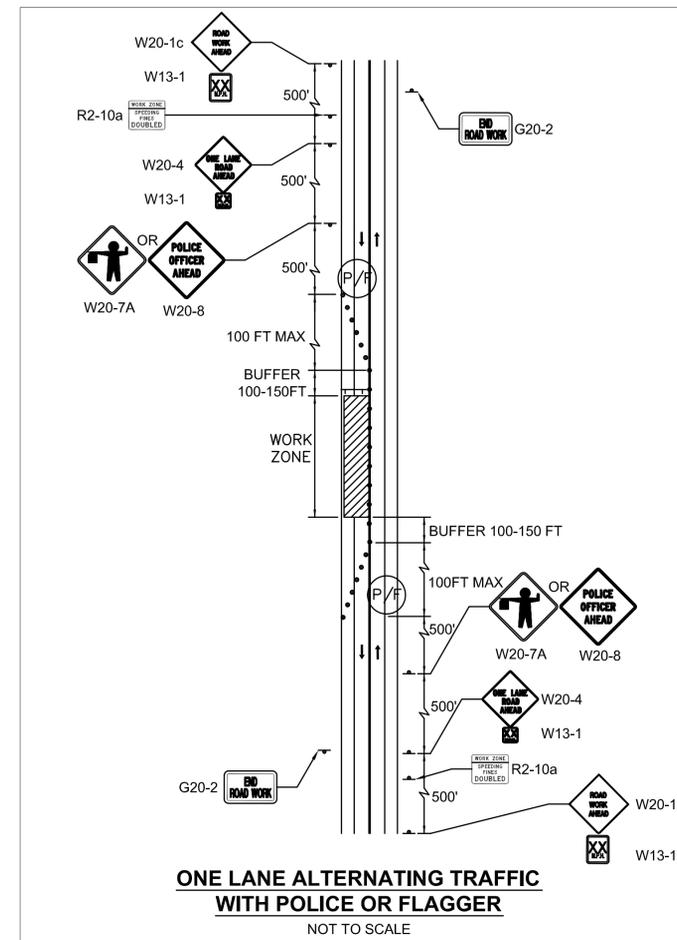
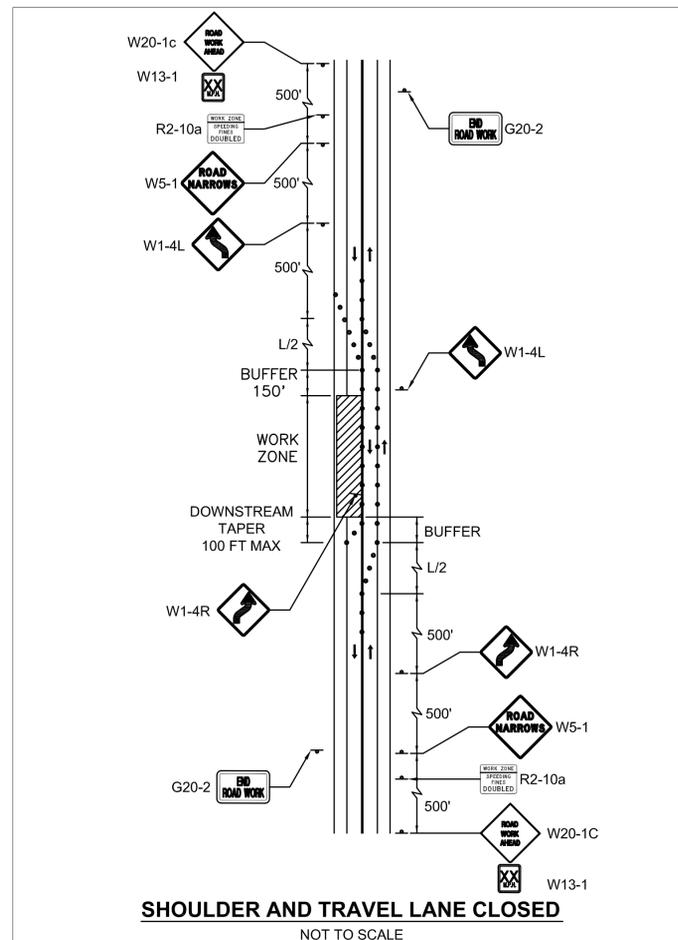


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	90	106
PROJECT FILE NO.		605020	

TEMPORARY TRAFFIC CONTROL PLANS

LEGEND

- REFLECTORIZED DRUM
- SIGN ON SUPPORT
- TYPE III BARRICADE WITH WARNING LIGHTS
- ▨ WORK ZONE
- (P/F) POLICE OFFICER/FLAGGER



NOTES:

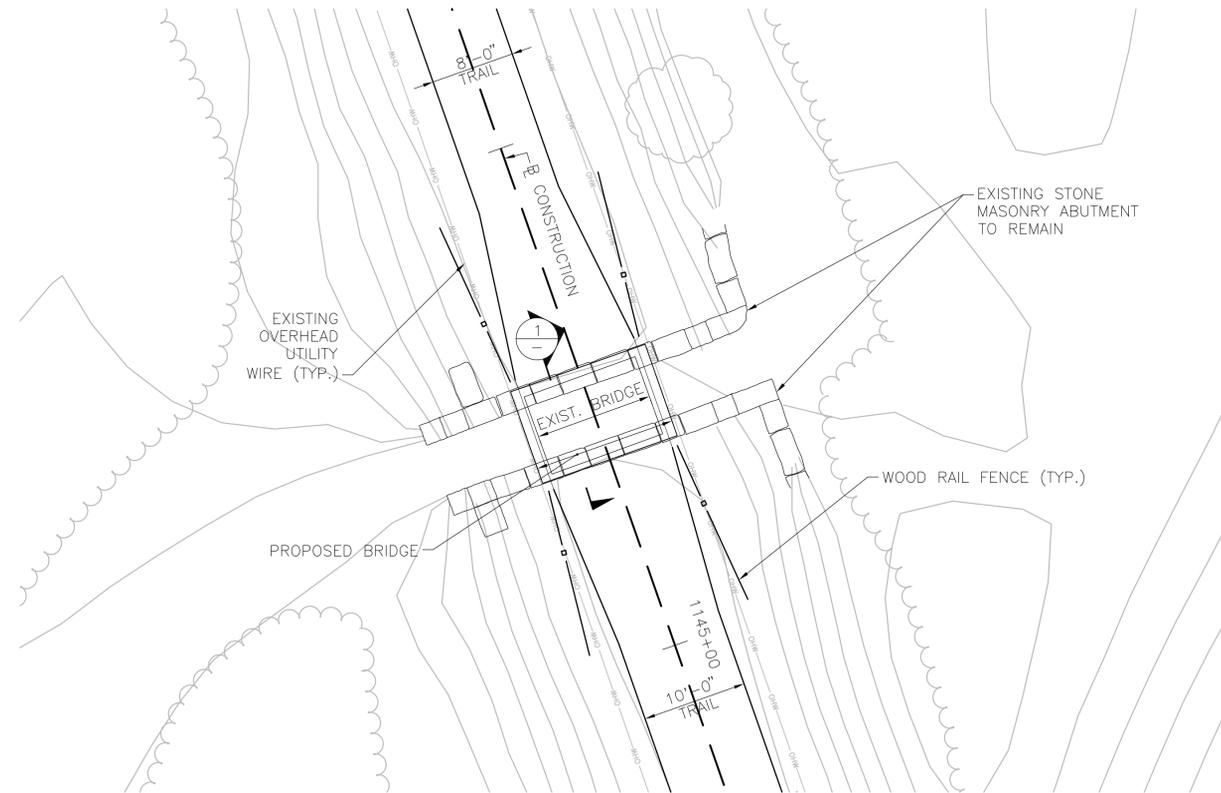
1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE 2009 EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE 2009 MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND REFLECTORIZED PLASTIC DRUMS WITH LIGHTING DEVICES MOUNTED ON THEM, SHALL PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES."
6. 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.
7. THE FIRST THREE PLASTIC DRUMS OF A TAPER MAY BE MOUNTED WITH TYPE A LIGHTS.
8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
11. MINIMUM LANE WIDTH SHALL BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
13. ALL TEMPORARY WALKWAYS SHALL MEET ADA/AAB GUIDELINES.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	91	106
PROJECT FILE NO.		605020	

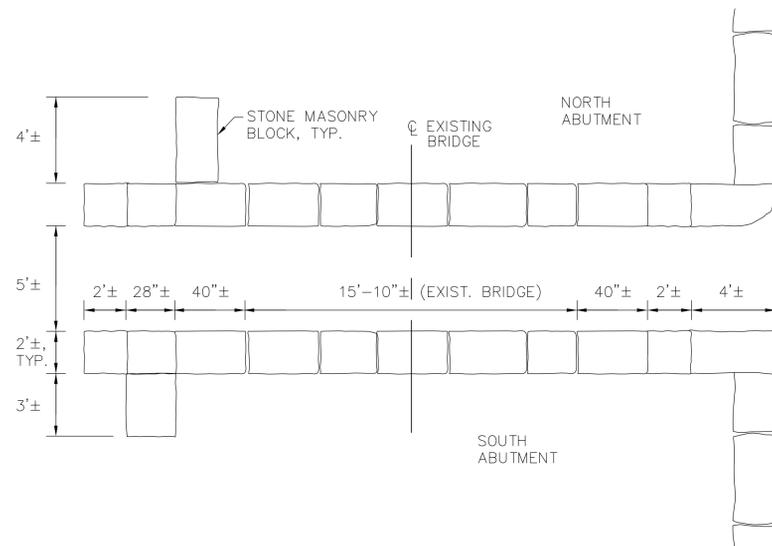
CULVERT PLANS  
BOXFORD  
CULVERT NO. 1  
PART 1 OF 6

NOTES:

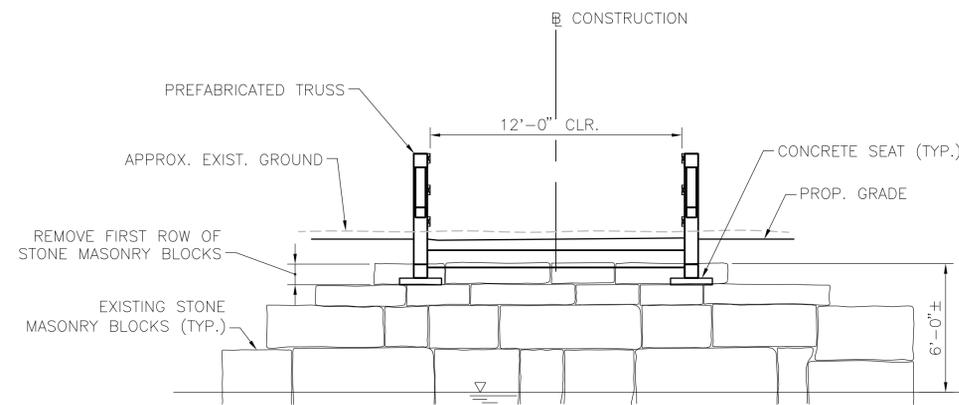
- EXISTING SUPERSTRUCTURE TO BE DEMOLISHED. EXISTING SUPERSTRUCTURE CONSISTS OF 4x6 TIMBER DECKING, 4x6 TIMBER CURBS, 7-4x6 TIMBER BEAMS, AND 9-8x8 TIMBER STRINGERS. ALSO, ALONGSIDE EACH OF THE 2 TIMBER CURBS IS AN 18"±x24"± STONE MASONRY CURB.
- STONE MASONRY BLOCKS ARE IN GOOD CONDITION. MINOR REPOINTING OF DETERIORATED MORTAR JOINTS IS REQUIRED.
- PREFABRICATED TRUSS BRIDGE TO BE DESIGNED AND DETAILED BY THE CONTRACTOR TO SUIT EXISTING SITE CONDITION. CONTRACTOR SHALL FIELD MEASURE EXACT DIMENSIONS AND DETAILS OF EXISTING ABUTMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS. SEE SPECIAL PROVISIONS FOR DETAILS.
- DESIGN LIVE LOAD = 90 PSF (PEDESTRIAN) , OR H 24 MAINTENANCE VEHICLE (WHICHEVER CONTROLS)



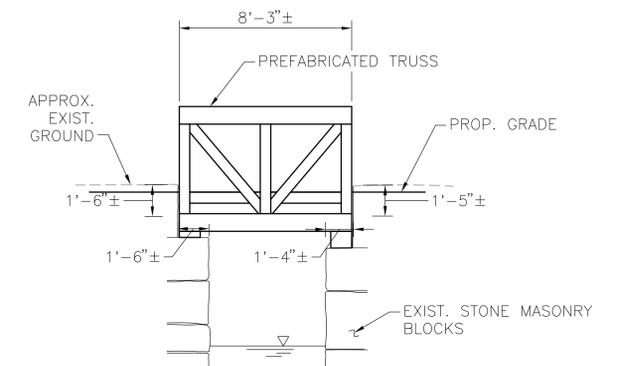
PLAN  
SCALE: 3/8" = 1'-0"



ABUTMENT PLAN - EXISTING  
SCALE: 3/4" = 1'-0"



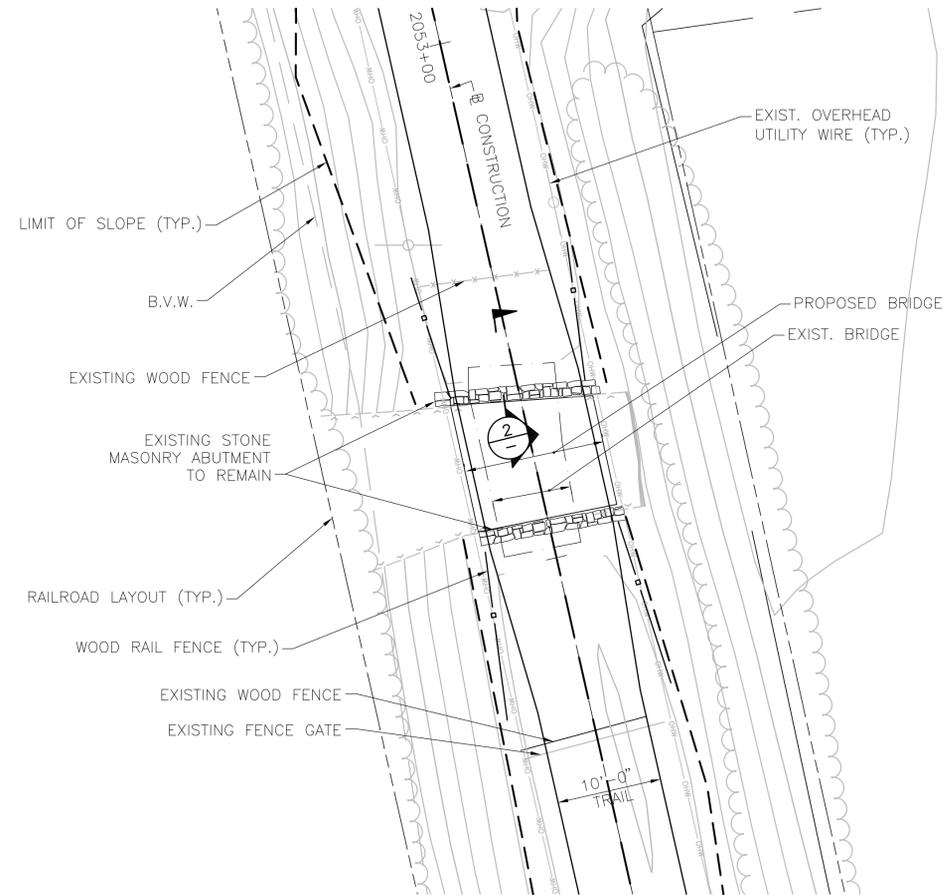
ELEVATION OF NORTH ABUTMENT  
(SOUTH ABUTMENT SIMILAR)  
SCALE: 3/4" = 1'-0"



SECTION  
SCALE: 1/4" = 1'-0" 1

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	92	106
PROJECT FILE NO.		605020	

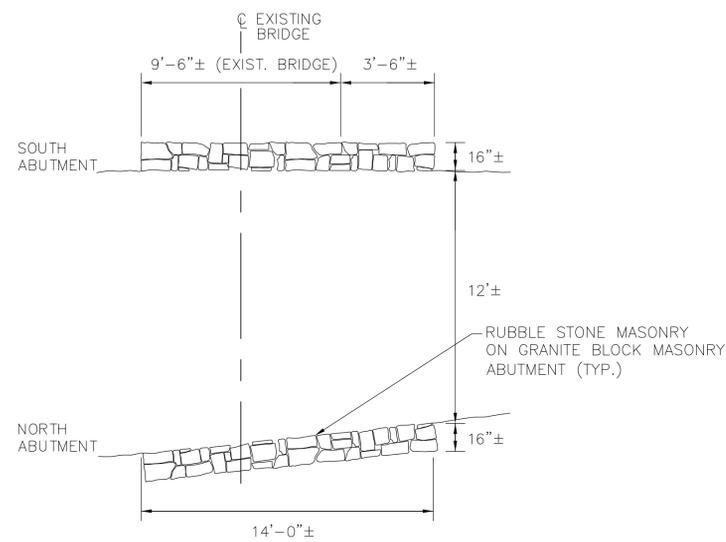
CULVERT PLANS  
GEORGETOWN  
CULVERT NO. 2  
PART 2 OF 6



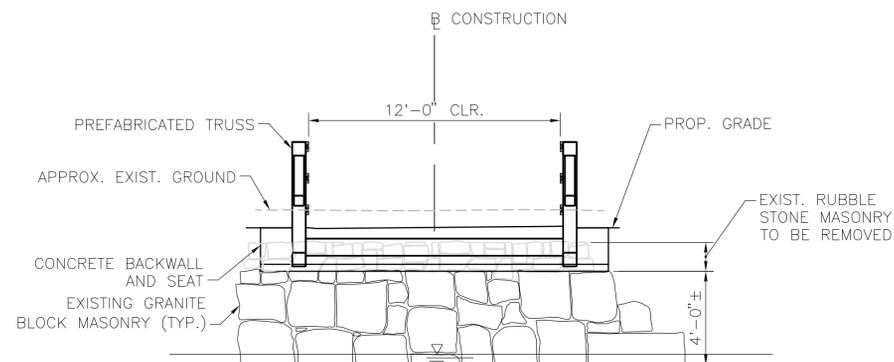
PLAN  
SCALE:  $\frac{3}{8}$ " = 1'-0"

NOTES:

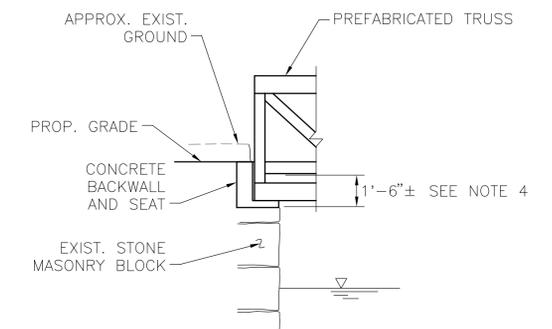
- EXISTING SUPERSTRUCTURE TO BE DEMOLISHED. EXISTING SUPERSTRUCTURE CONSISTS OF 4-TIMBER PLANKS, 15-TIMBER RAILROAD TIES AND 2-10"x10" TIMBER BEAMS.
- EXISTING PIER TO BE DEMOLISHED. EXISTING PIER CONSISTS OF 2 TIMBER UTILITY POLES AND TIMBER CROSS-BRACING. CUT OFF TIMBER POLES AT MUDLINE.
- STONE MASONRY BLOCKS OF EXISTING ABUTMENTS ARE IN GOOD CONDITION. MINOR REPOINTING OF DETERIORATED MORTAR JOINTS IS REQUIRED.
- TOP 18"± OF EXISTING ABUTMENT IS OF RUBBLE STONE MASONRY. REMOVE AND REPLACE WITH A NEW CONCRETE BACKWALL AND SEAT.
- WIDTH OF EXISTING BRIDGE SEAT IS UNKNOWN DUE TO LIMITED VISIBILITY DUE TO VEGETATION AND EXISTING SUPERSTRUCTURE. CONTRACTOR TO CLEAR VEGETATION AND DEBRIS OFF BRIDGE SEAT. CLEANING OF BRIDGE SEAT AND PATCHING/REPOINTING OF MORTAR JOINTS IS REQUIRED BEFORE PLACEMENT OF NEW CONCRETE BACKWALL AND SEAT.
- PREFABRICATED TRUSS BRIDGE TO BE DESIGNED AND DETAILED BY THE CONTRACTOR TO SUIT EXISTING SITE CONDITION. CONTRACTOR SHALL FIELD MEASURE EXACT DIMENSIONS AND DETAILS OF EXISTING ABUTMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS. SEE SPECIAL PROVISIONS FOR DETAILS.
- APPROXIMATE LENGTH OF PROPOSED BRIDGE IS 11'-6"± (ALONG BASELINE)
- DESIGN LIVE LOAD = 90 PSF (PEDESTRIAN), OR H 20 MAINTENANCE VEHICLE (WHICHEVER CONTROLS)



ABUTMENT PLAN - EXISTING  
SCALE:  $\frac{3}{4}$ " = 1'-0"



ELEVATION OF SOUTH ABUTMENT  
(NORTH ABUTMENT SIMILAR)  
SCALE:  $\frac{3}{4}$ " = 1'-0"



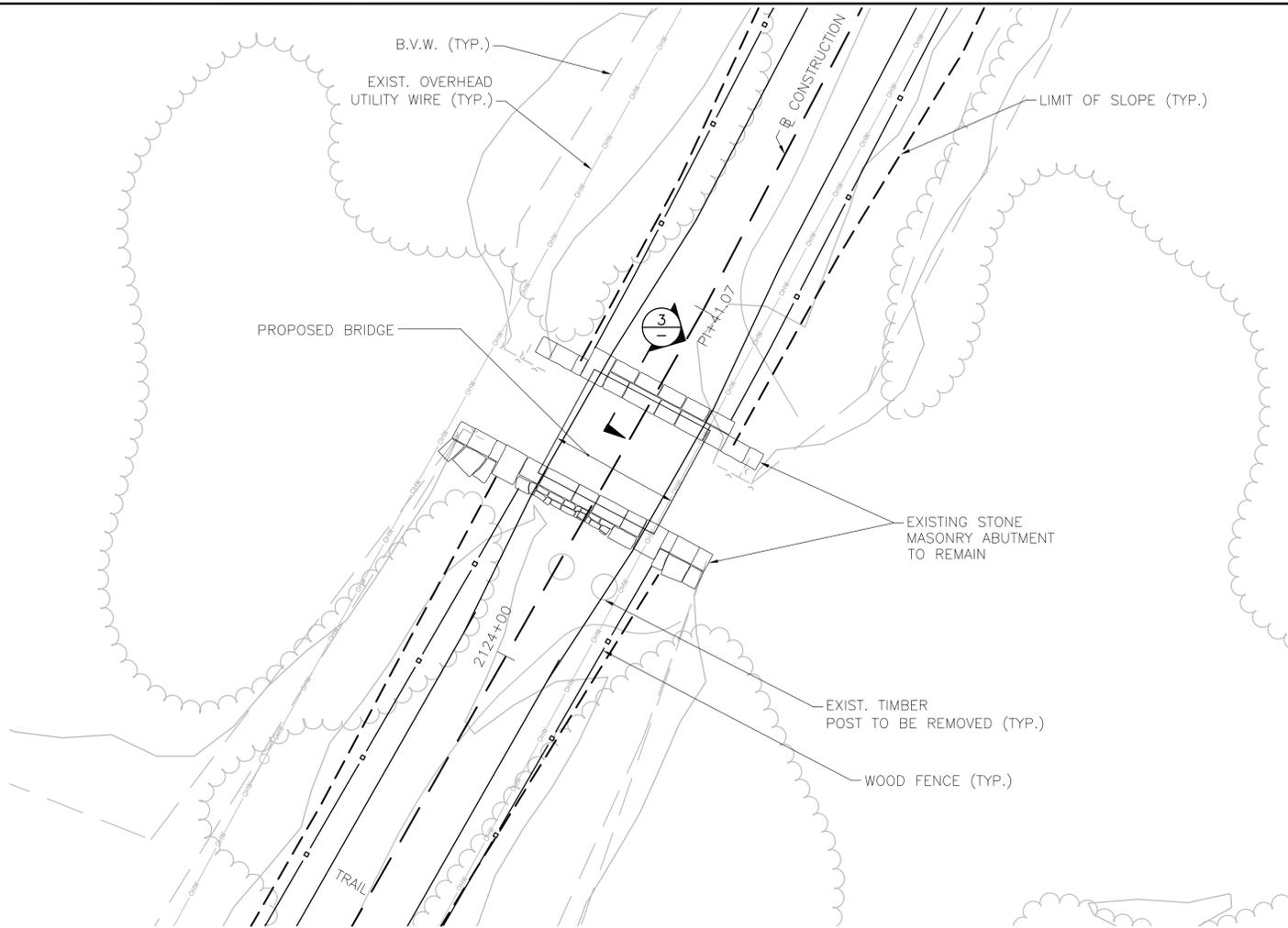
SECTION  
SCALE:  $\frac{3}{4}$ " = 1'-0" (2)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	93	106
PROJECT FILE NO.		605020	

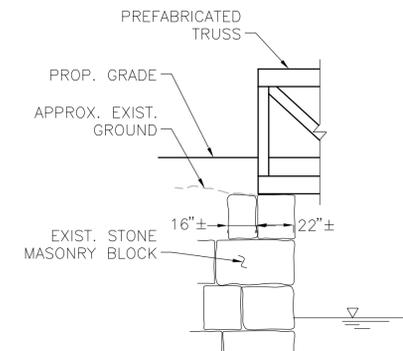
CULVERT PLANS  
GEORGETOWN  
CULVERT NO. 3  
PART 3 OF 6

NOTES:

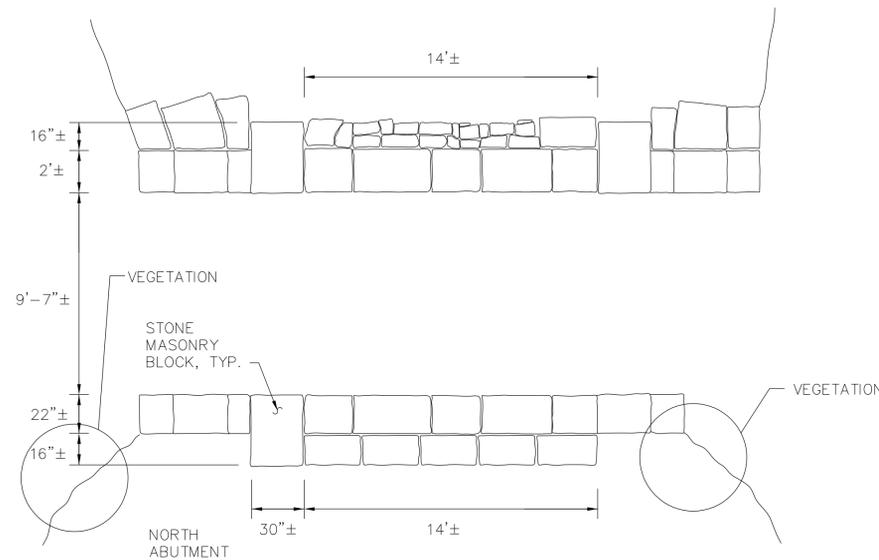
- EXISTING SUPERSTRUCTURE PREVIOUSLY DEMOLISHED.
- STONE MASONRY BLOCKS ARE IN GOOD CONDITION. MINOR REPOINTING OF DETERIORATED MORTAR JOINTS IS REQUIRED. EDGES OF EXISTING ABUTMENTS REQUIRE CLEARING OF VEGETATION. CLEANING GRAFFITI ON EXISTING STONE MASONRY BLOCKS IS ALSO REQUIRED. RETRIEVE ANY FALLEN STONE BLOCKS AND REUSE FOR ABUTMENT.
- PREFABRICATED TRUSS BRIDGE TO BE DESIGNED AND DETAILED BY THE CONTRACTOR TO SUIT EXISTING SITE CONDITION. CONTRACTOR SHALL FIELD MEASURE EXACT DIMENSIONS AND DETAILS OF EXISTING ABUTMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS. SEE SPECIAL PROVISIONS FOR DETAILS.
- APPROXIMATE LENGTH OF PROPOSED BRIDGE IS 13'-3"±
- DESIGN LIVE LOAD = 90 PSF (PEDESTRIAN), OR H 20 MAINTENANCE VEHICLE (WHICHEVER CONTROLS)



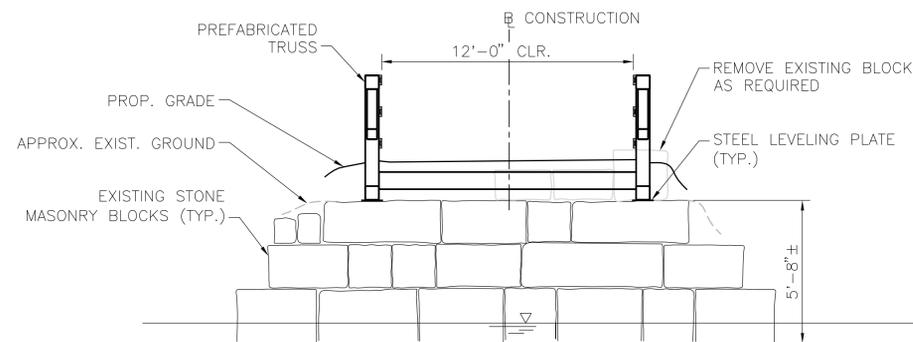
PLAN  
SCALE: 3/8" = 1'-0"



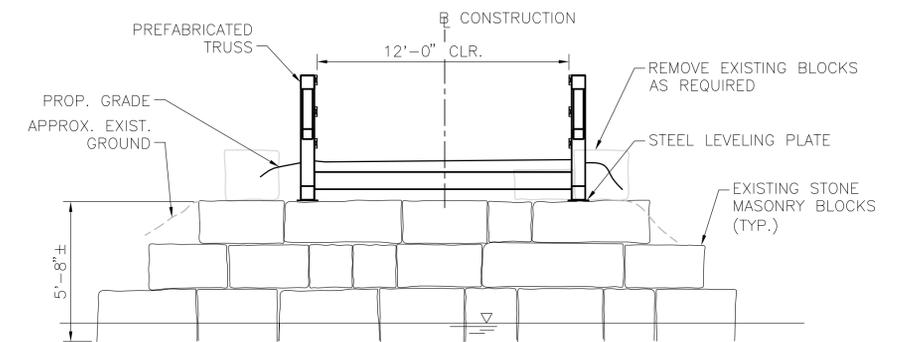
SECTION  
SCALE: 1/4" = 1'-0" 3



ABUTMENT PLAN — EXISTING  
SCALE: 1/4" = 1'-0"



ELEVATION OF NORTH ABUTMENT  
SCALE: 1/4" = 1'-0"



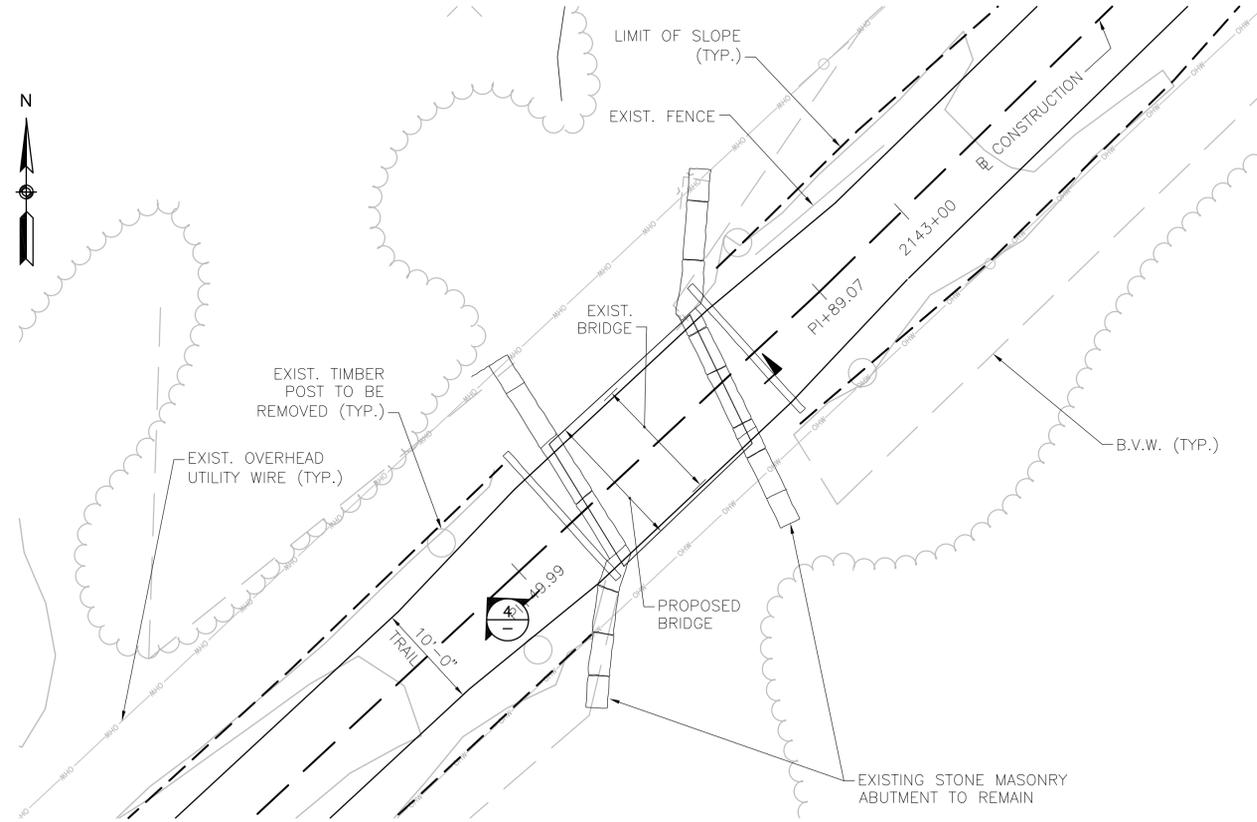
ELEVATION OF SOUTH ABUTMENT  
SCALE: 1/4" = 1'-0"

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	94	106
PROJECT FILE NO.		605020	

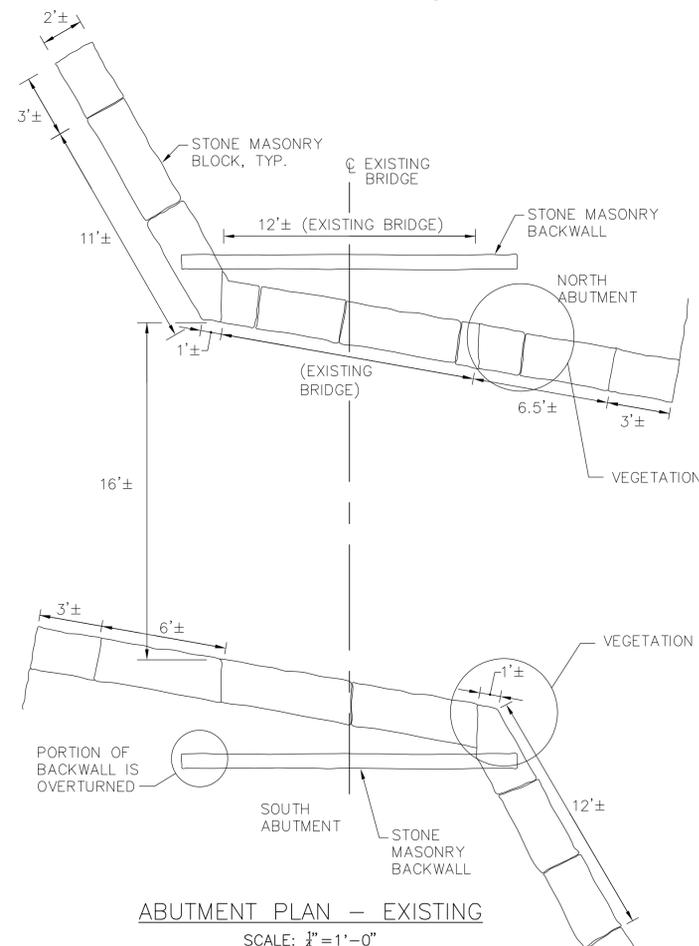
CULVERT PLANS  
GEORGETOWN  
CULVERT NO. 4  
PART 4 OF 6

NOTES:

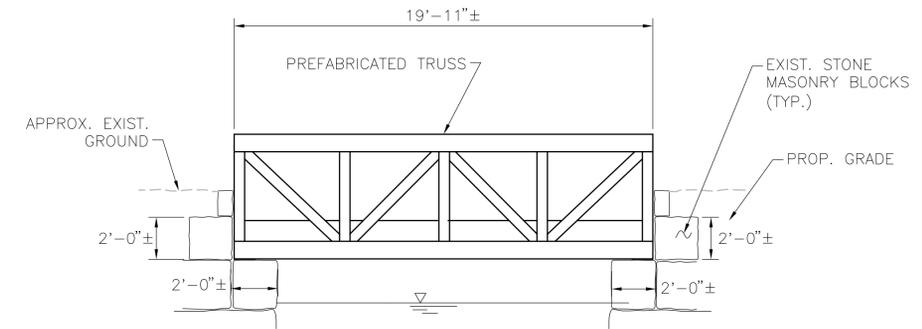
- EXISTING SUPERSTRUCTURE TO BE DEMOLISHED. EXISTING SUPERSTRUCTURE CONSISTS OF TIMBER DECKING, 30±-6"x8" TIMBER RAILROAD TIES, TIMBER CURB, AND 2-28"± DEEP STEEL GIRDERS.
- STONE MASONRY BLOCKS ARE IN GOOD CONDITION. MINOR REPOINTING OF DETERIORATED MORTAR JOINTS IS REQUIRED. EDGES OF EXISTING SOUTH ABUTMENT REQUIRE CLEARING OF VEGETATION.
- PREFABRICATED TRUSS BRIDGE TO BE DESIGNED AND DETAILED BY THE CONTRACTOR TO SUIT EXISTING SITE CONDITION. CONTRACTOR SHALL FIELD MEASURE EXACT DIMENSIONS AND DETAILS OF EXISTING ABUTMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS. SEE SPECIAL PROVISIONS FOR DETAILS.
- DESIGN LIVE LOAD = 90 PSF (PEDESTRIAN), OR H 20 MAINTENANCE VEHICLE (WHICHEVER CONTROLS)



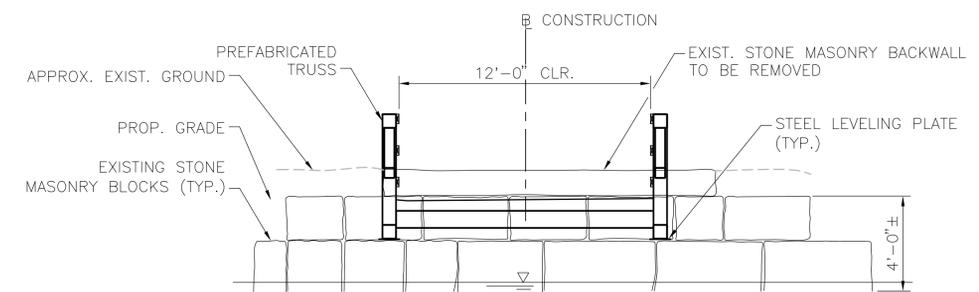
PLAN  
SCALE: 1/8" = 1'-0"



ABUTMENT PLAN - EXISTING  
SCALE: 1/4" = 1'-0"



SECTION  
SCALE: 1/4" = 1'-0" 4



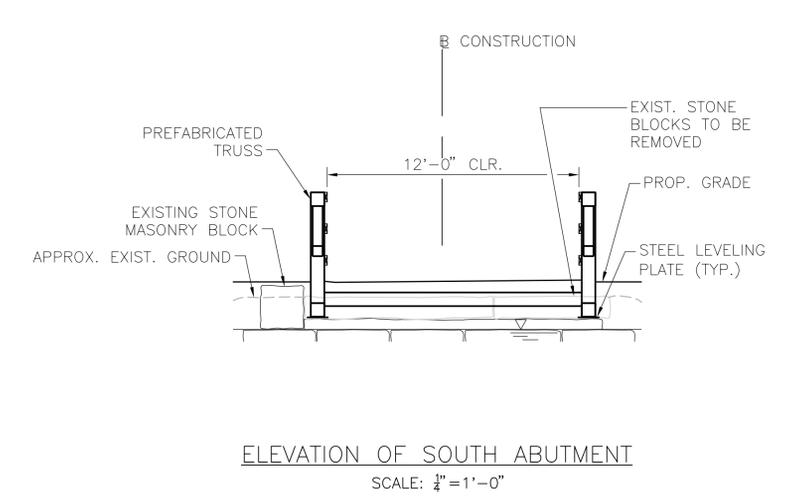
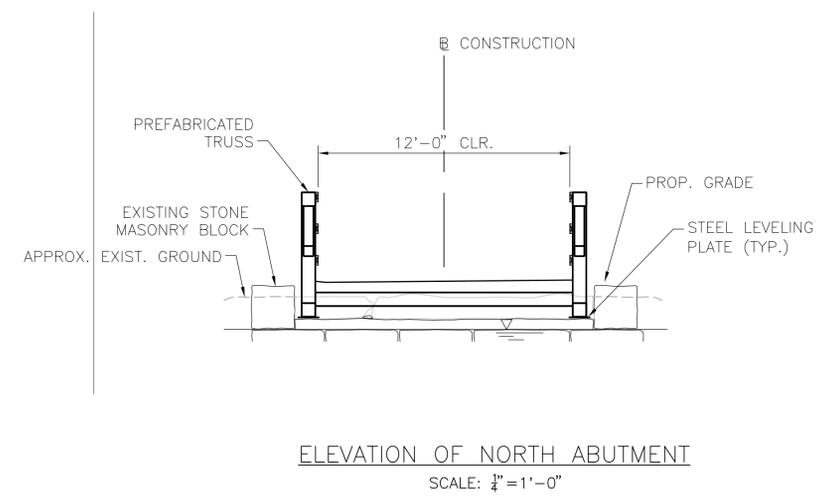
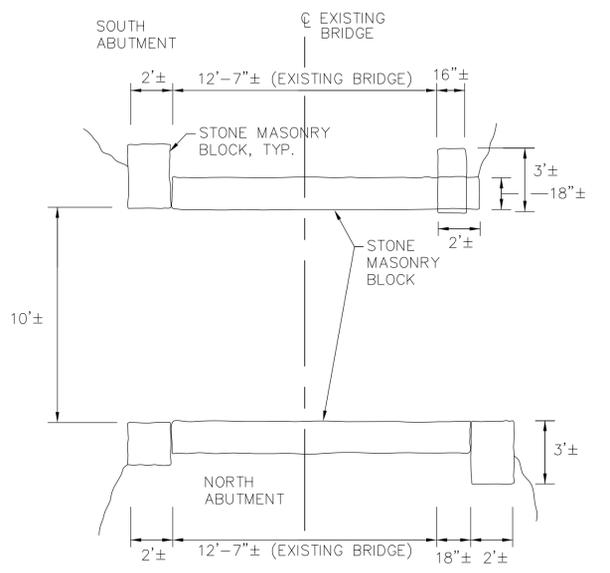
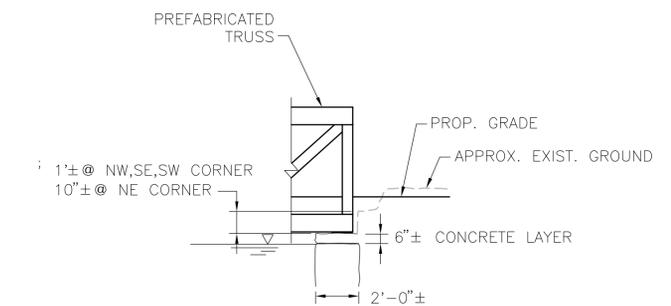
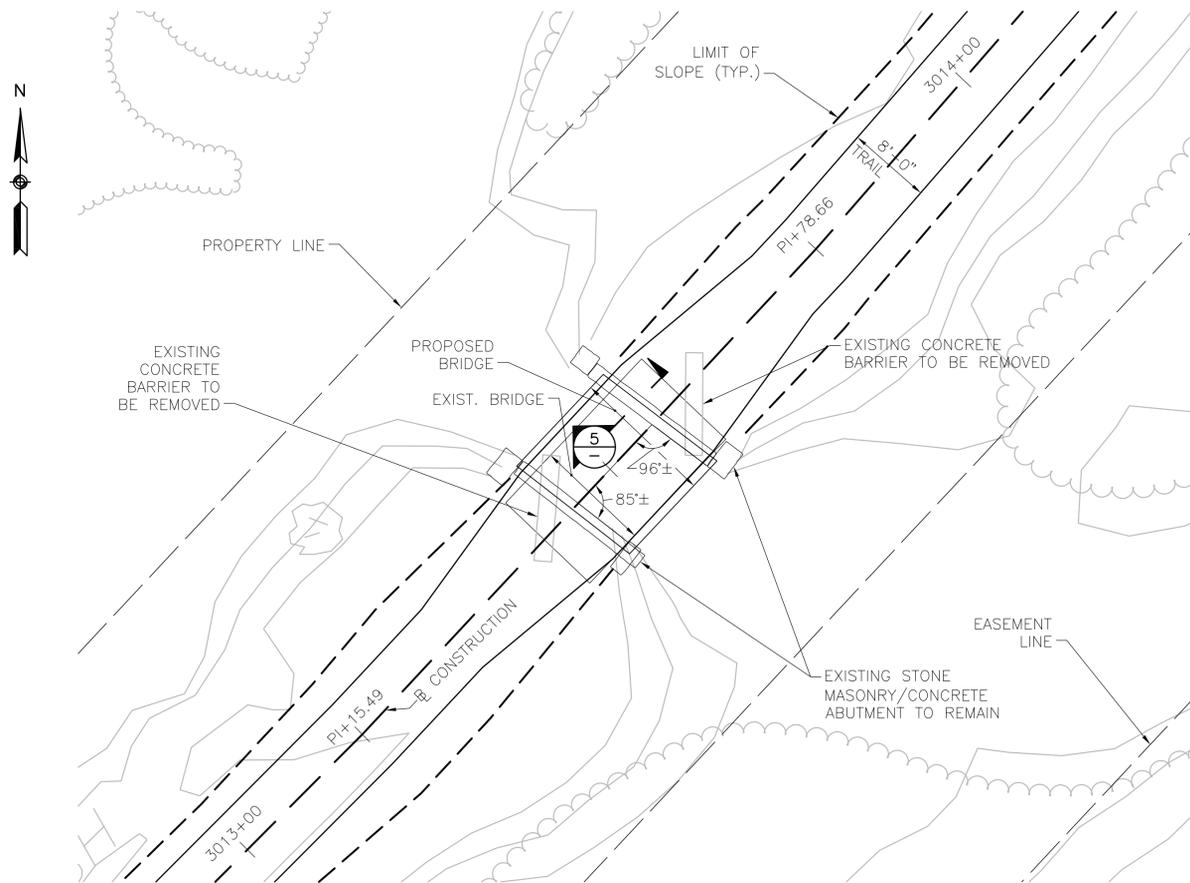
ELEVATION OF NORTH ABUTMENT  
SCALE: 1/4" = 1'-0"

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	95	106
PROJECT FILE NO.		605020	

CULVERT PLANS  
NEWBURY  
CULVERT NO. 5  
PART 5 OF 6

NOTES:

- EXISTING SUPERSTRUCTURE TO BE DEMOLISHED. EXISTING SUPERSTRUCTURE CONSISTS OF TIMBER DECKING, 7-10"x10" TIMBER BEAMS, 2 RECTANGULAR TIMBER CURBS, AND 2-14"Ø TIMBER CURBS.
- EXISTING STONE MASONRY BLOCK SEAT TO BE RESET IN MORTAR ON TOP OF EXISTING 6"± THICK CONCRETE LAYER.
- PREFABRICATED TRUSS BRIDGE TO BE DESIGNED AND DETAILED BY THE CONTRACTOR TO SUIT EXISTING SITE CONDITION. CONTRACTOR SHALL FIELD MEASURE EXACT DIMENSIONS AND DETAILS OF EXISTING ABUTMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS. SEE SPECIAL PROVISIONS FOR DETAILS.
- APPROXIMATE LENGTH OF BRIDGE IS 12'-6"±
- DESIGN LIVE LOAD = 90 PSF (PEDESTRIAN) , OR H 20 MAINTENANCE VEHICLE (WHICHEVER CONTROLS)

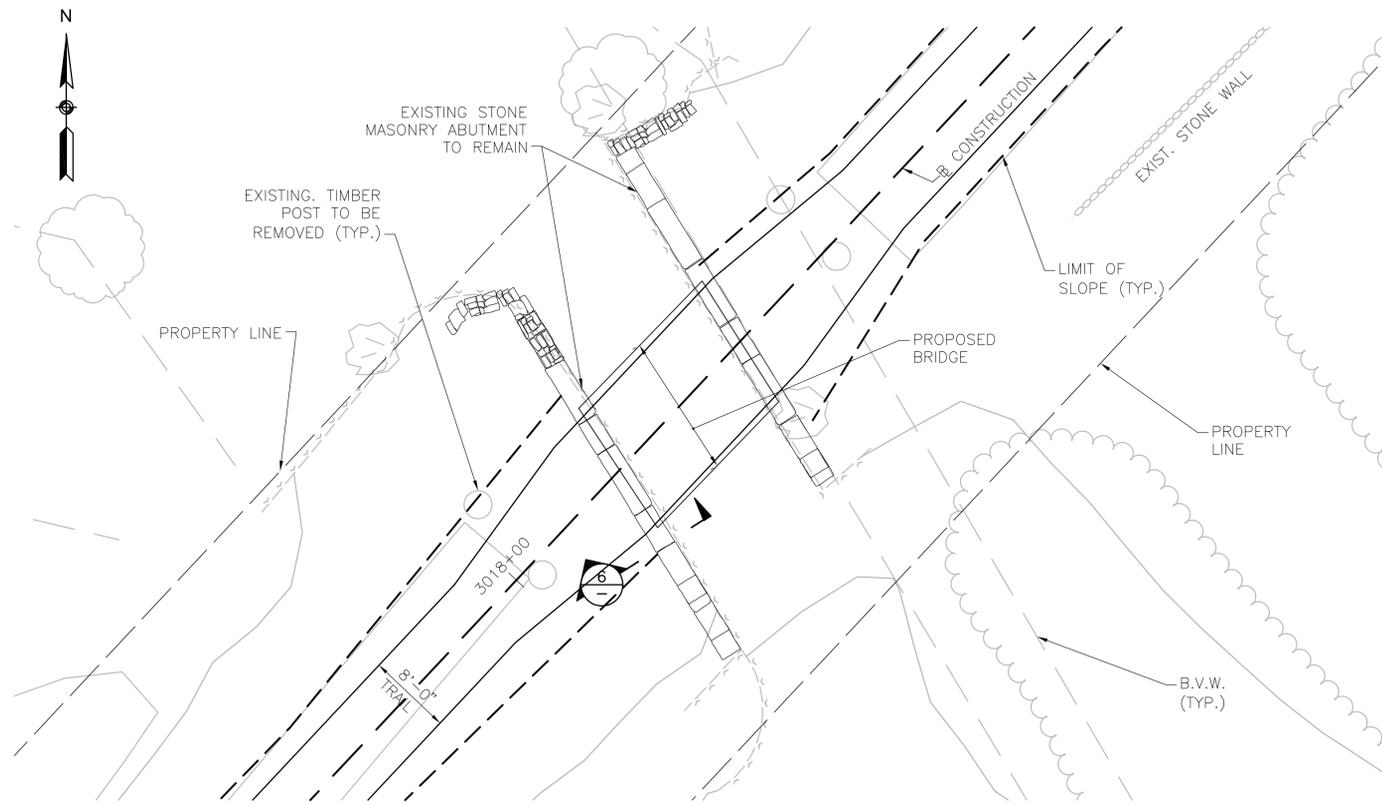


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	96	106
PROJECT FILE NO.		605020	

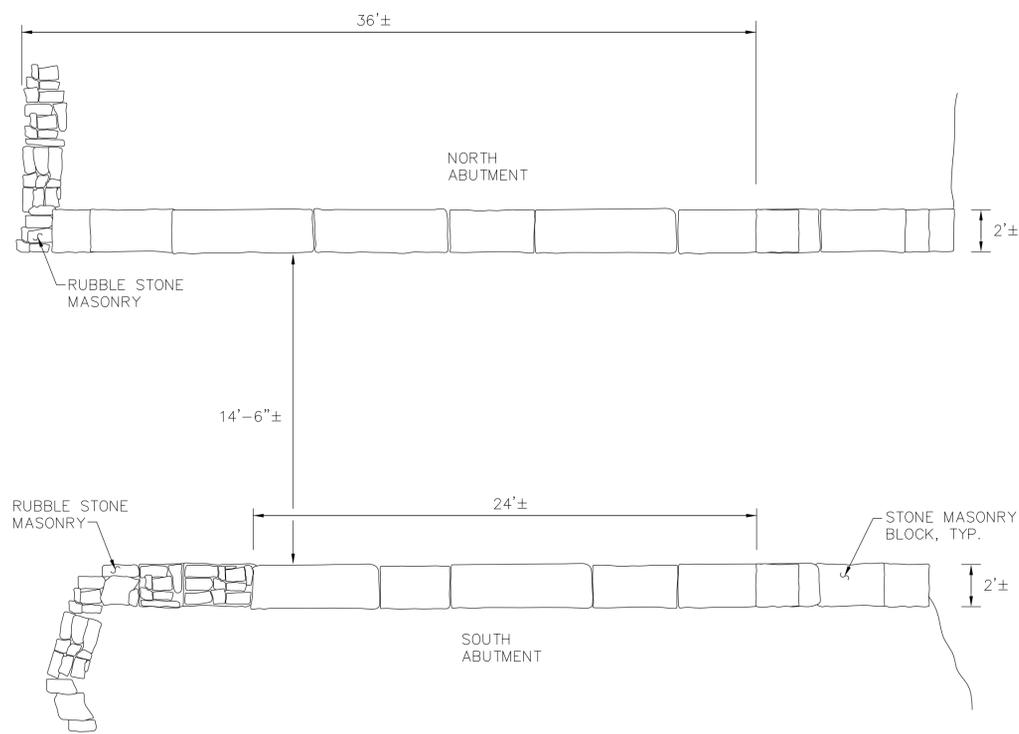
CULVERT PLANS  
NEWBURY  
CULVERT NO. 6  
PART 6 OF 6

NOTES:

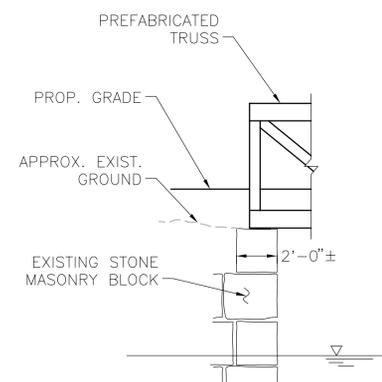
- EXISTING SUPERSTRUCTURE PREVIOUSLY DEMOLISHED.
- EXISTING PIER TO BE DEMOLISHED. EXISTING PIER CONSISTS OF A TIMBER PIER CAP, 4-TIMBER PILES AND TIMBER CROSS-BRACING. CUT OFF EXISTING PIER TO MUD LINE.
- STONE MASONRY BLOCKS ARE IN GOOD CONDITION. MINOR REPOINTING OF DETERIORATED MORTAR JOINTS IS REQUIRED.
- PEDESTRIAN TRUSS BRIDGE TO BE DESIGNED AND DETAILED BY THE CONTRACTOR TO SUIT EXISTING SITE CONDITION. CONTRACTOR SHALL FIELD MEASURE EXACT DIMENSIONS AND DETAILS OF EXISTING ABUTMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS. SEE SPECIAL PROVISIONS FOR DETAILS.
- APPROXIMATE LENGTH OF BRIDGE IS 18'-0"±
- DESIGN LIVE LOAD = 90 PSF (PEDESTRIAN) , OR H 20 MAINTENANCE VEHICLE (WHICHEVER CONTROLS)



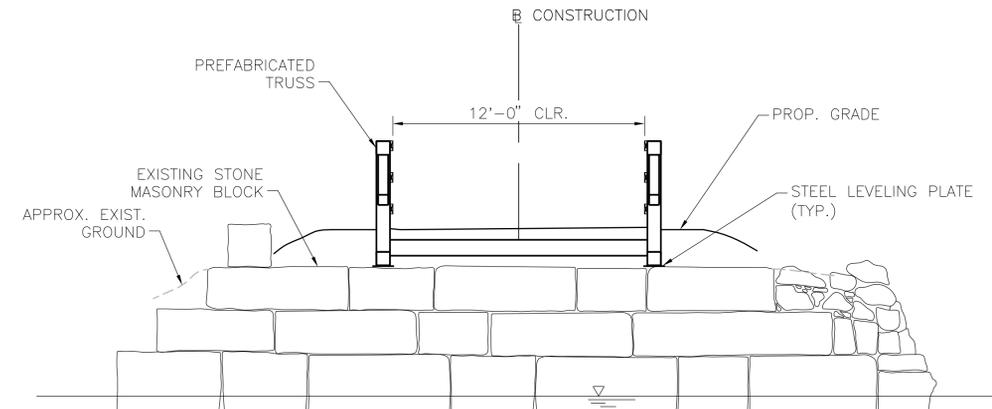
PLAN  
SCALE: 1/8" = 1'-0"



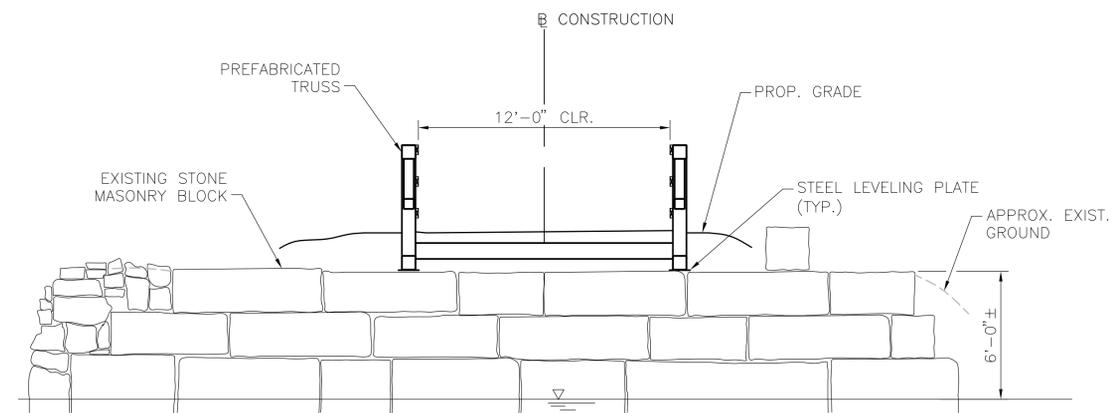
ABUTMENT PLAN - EXISTING  
SCALE: 1/4" = 1'-0"



SECTION  
SCALE: 1/4" = 1'-0" (6)



ELEVATION OF SOUTH ABUTMENT  
SCALE: 1/4" = 1'-0"

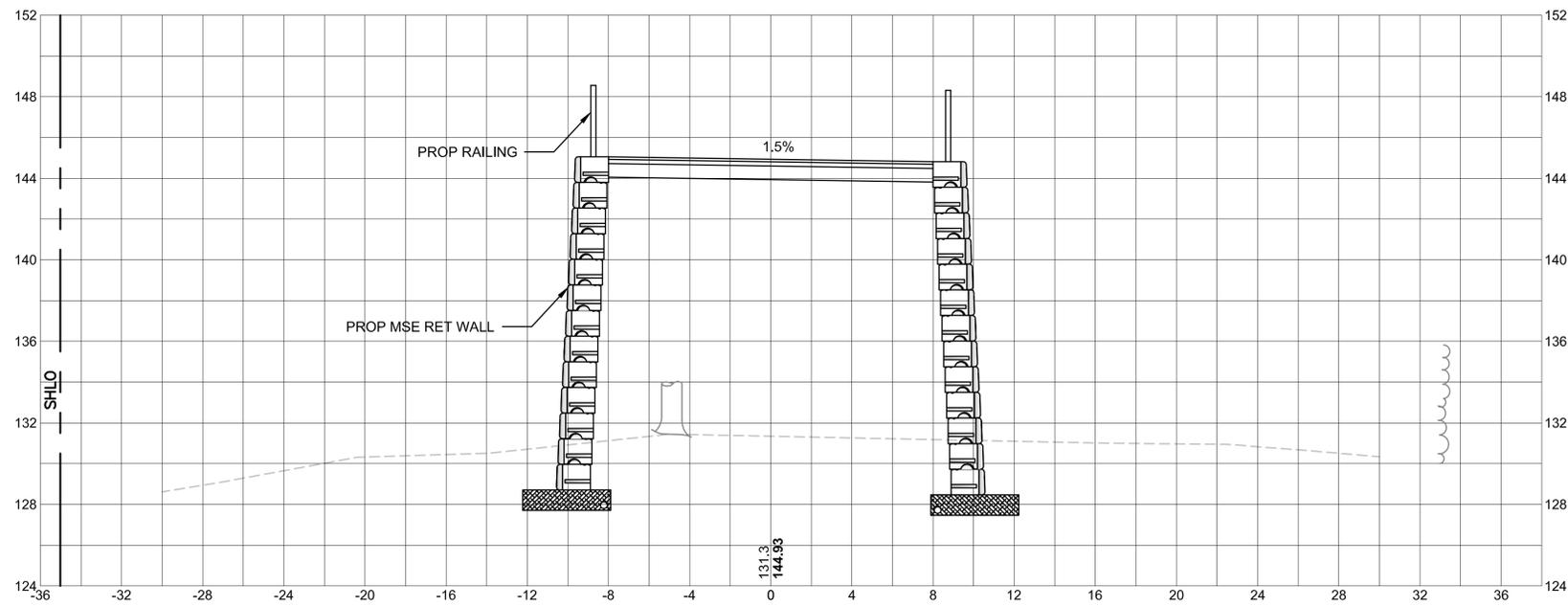


ELEVATION OF NORTH ABUTMENT  
SCALE: 1/4" = 1'-0"

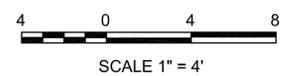
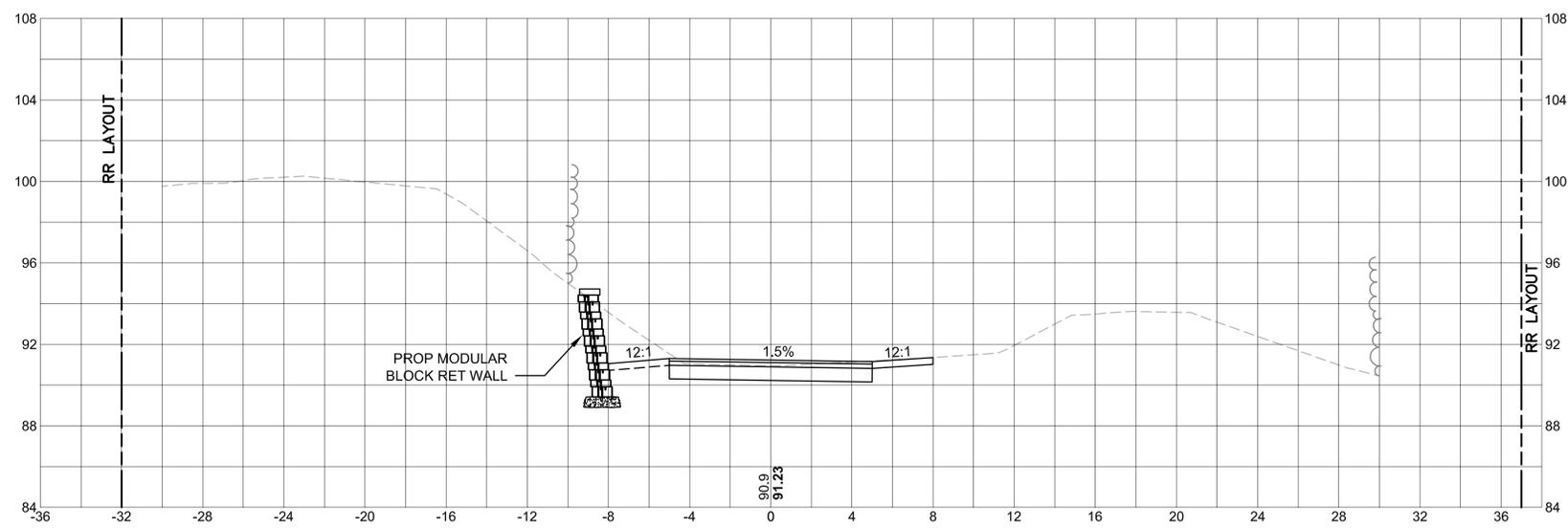
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	97	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
BOXFORD  
PART 1 OF 10

1066+00



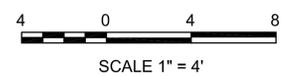
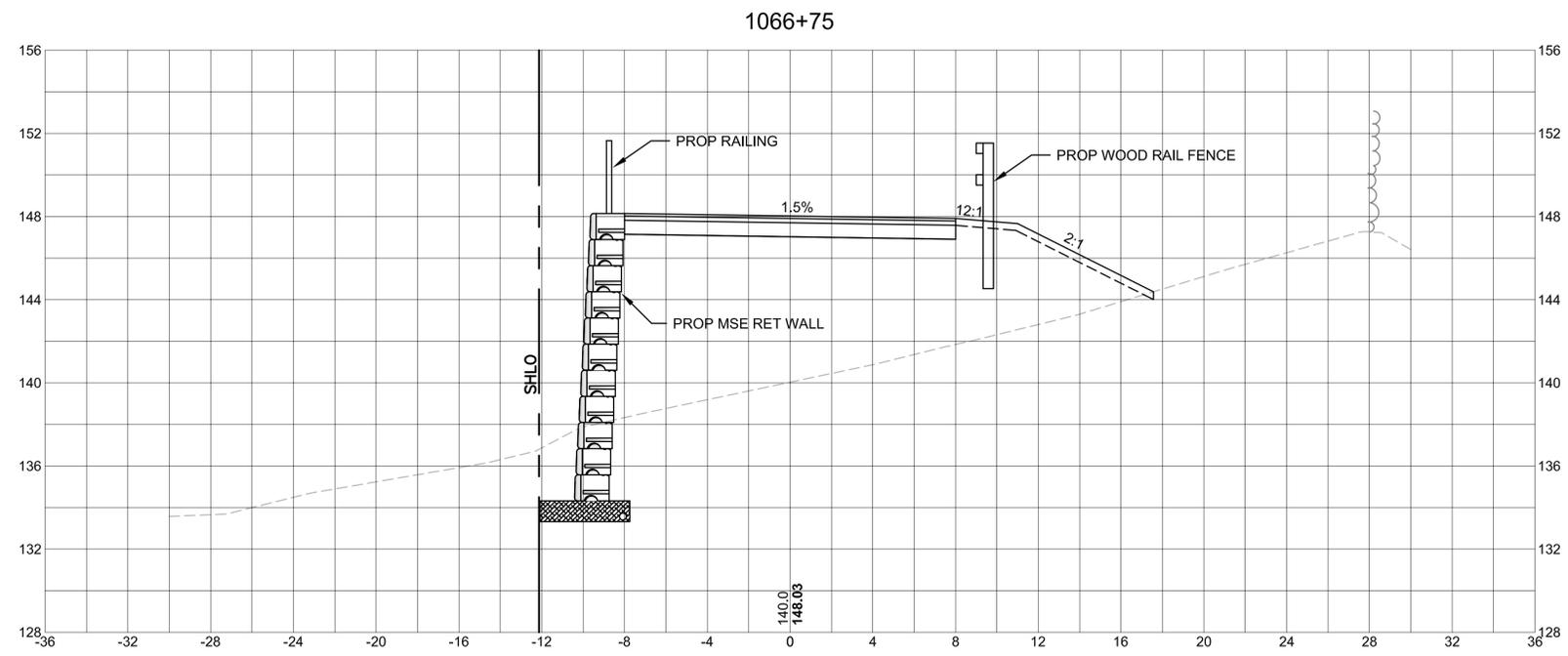
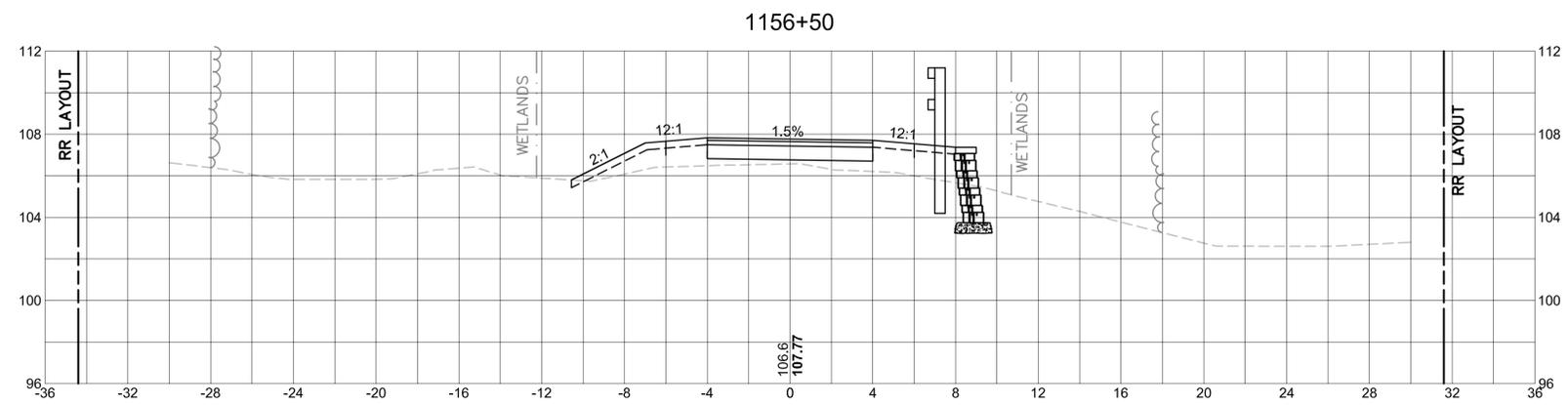
1019+50



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	98	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
BOXFORD  
PART 2 OF 10

2012-Jul-24  
605020.DWG [XSECS.DWG]



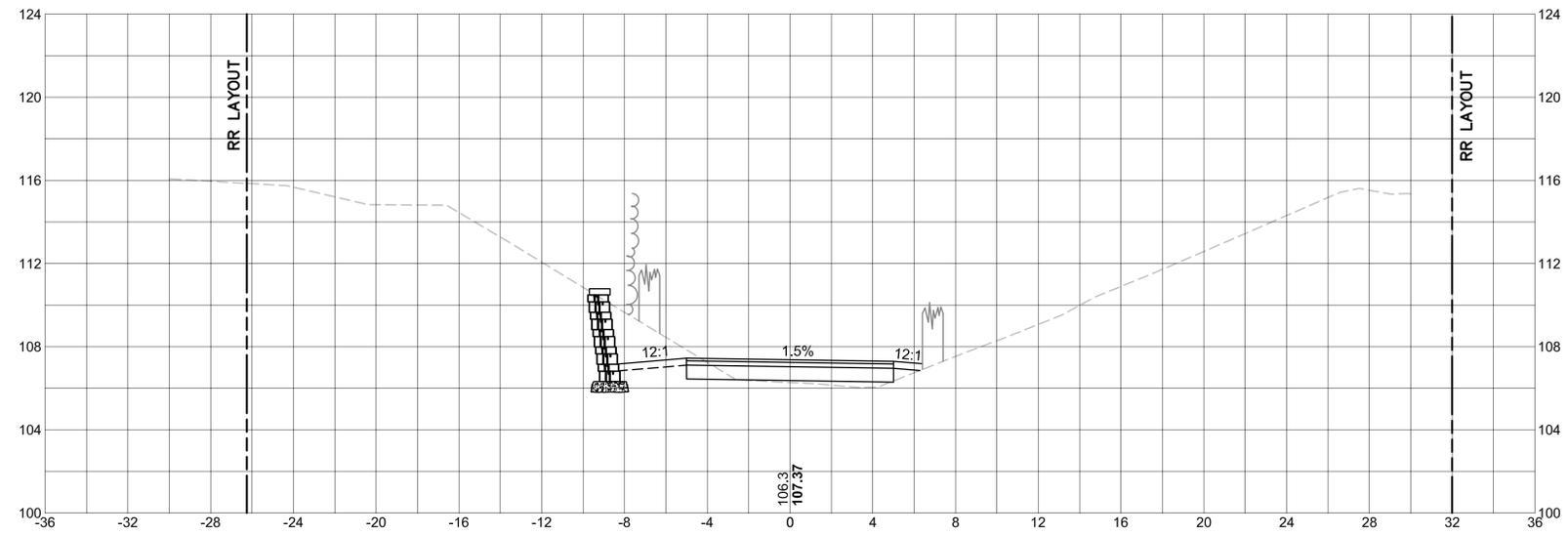
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	99	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
GEORGETOWN  
PART 3 OF 10

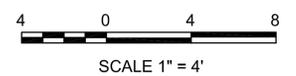
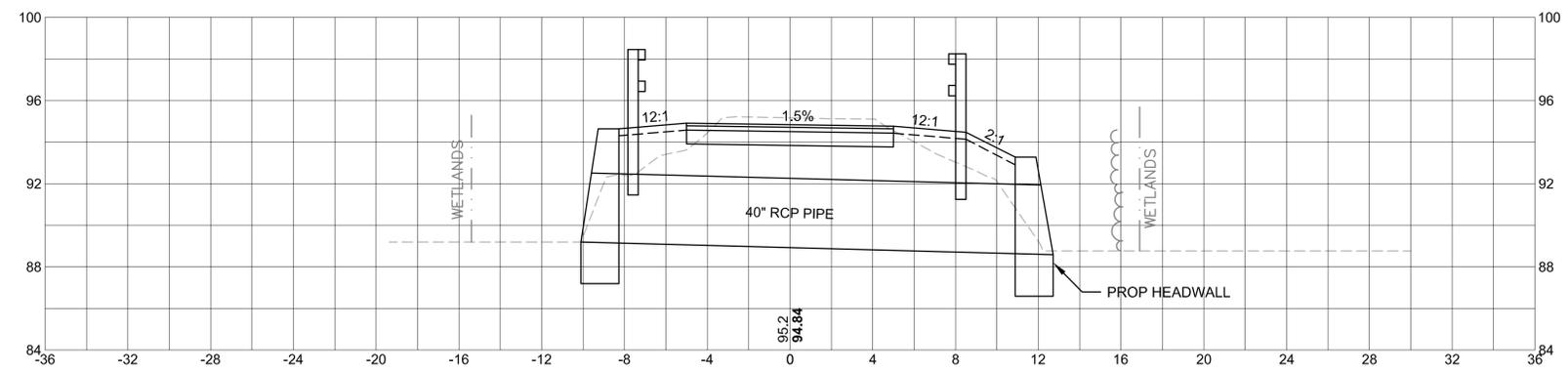
NOTES:

1. PARALLEL UTILITY POLES BEGIN AT APPROXIMATE STATION 2006+00 IN GEORGETOWN AND EXTEND THROUGH STATION 3001+25 IN NEWBURY.

2084+10



2005+30



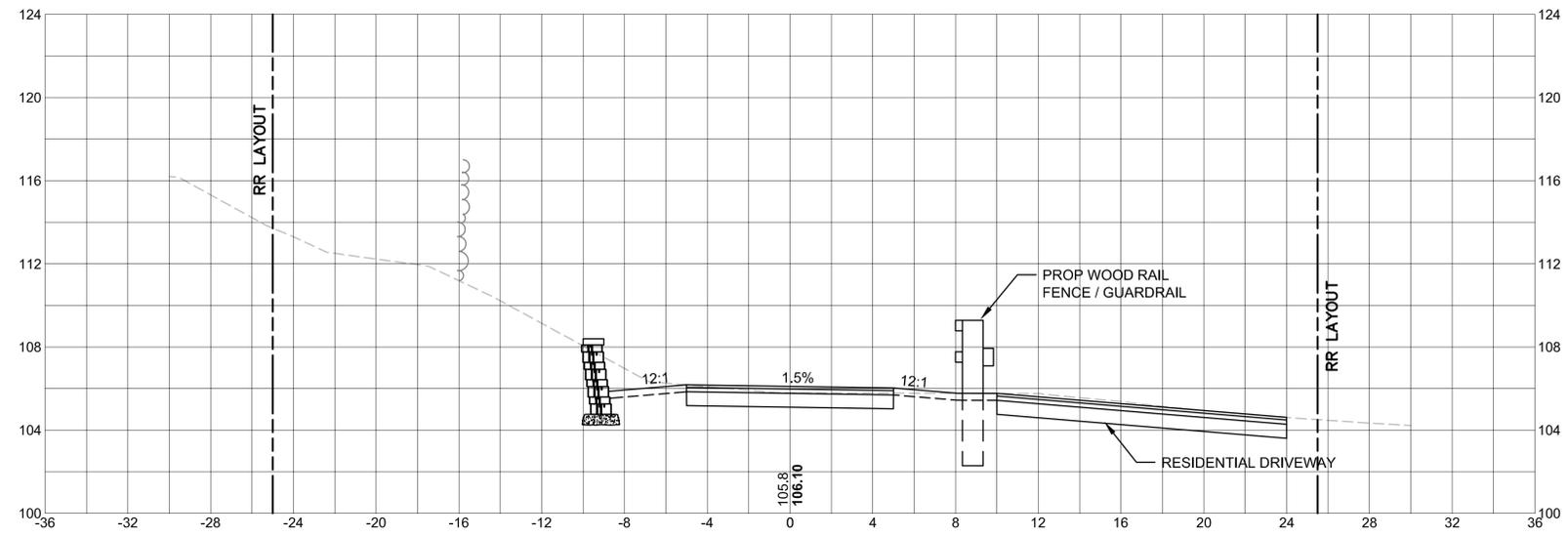
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	100	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
GEORGETOWN  
PART 4 OF 10

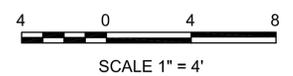
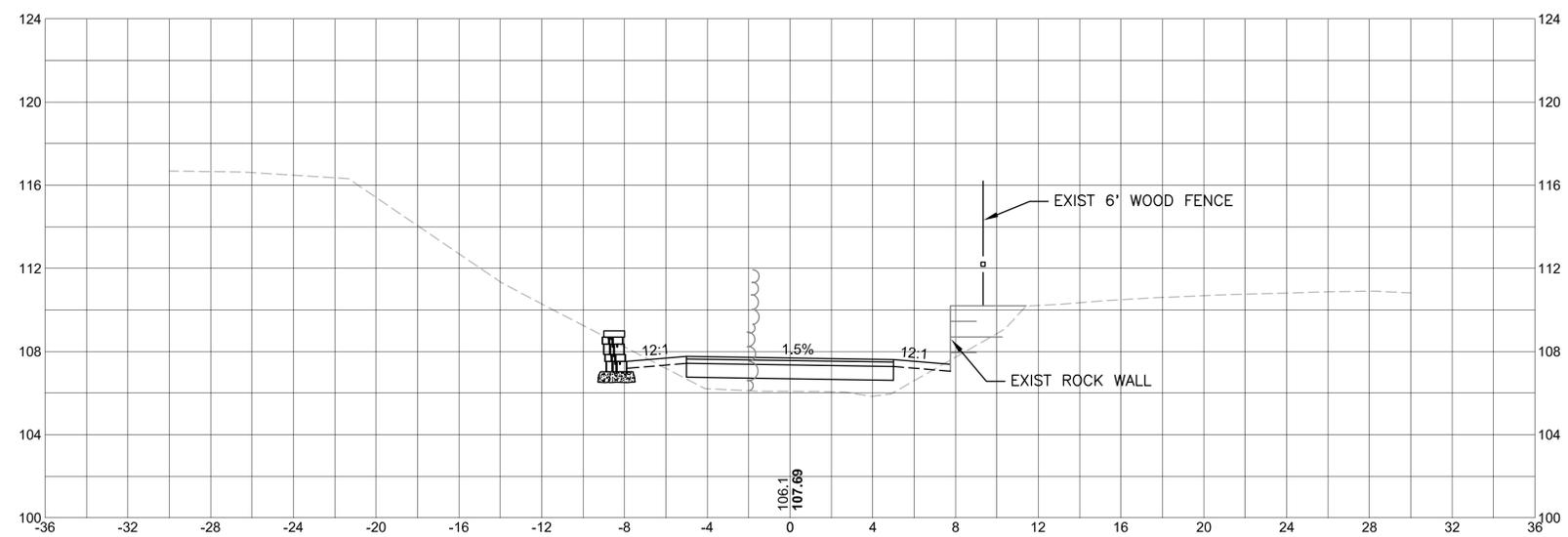
NOTES:

1. PARALLEL UTILITY POLES BEGIN AT APPROXIMATE STATION 2006+00 IN GEORGETOWN AND EXTEND THROUGH STATION 3001+25 IN NEWBURY.

2087+00



2084+50

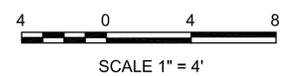
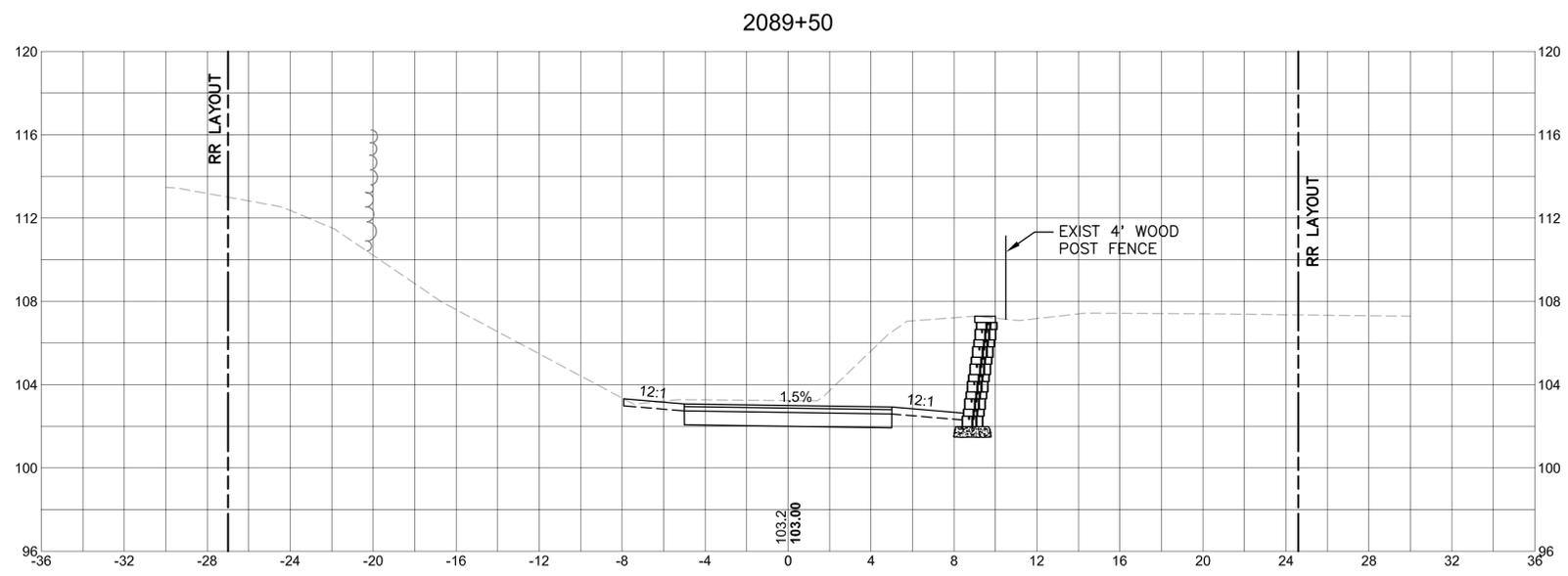
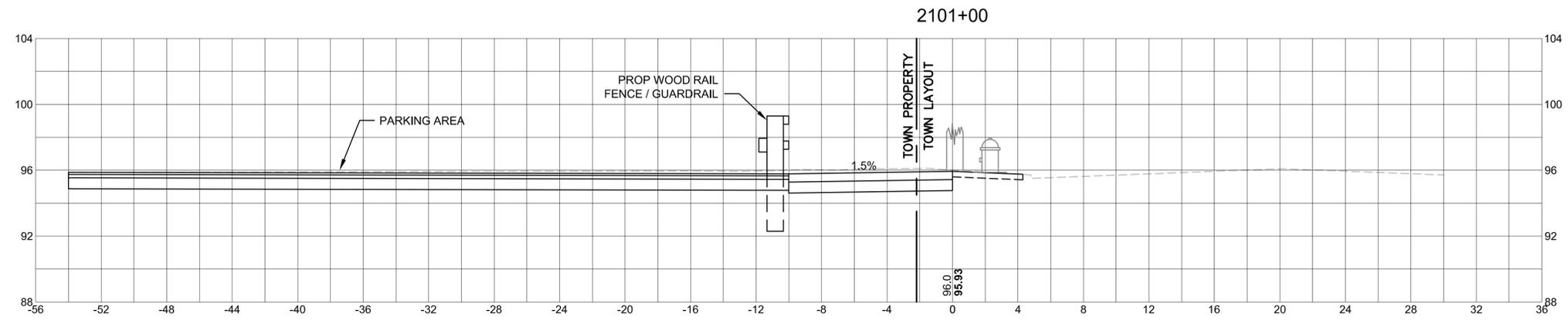


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	101	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
GEORGETOWN  
PART 5 OF 10

NOTES:

1. PARALLEL UTILITY POLES BEGIN AT APPROXIMATE STATION 2006+00 IN GEORGETOWN AND EXTEND THROUGH STATION 3001+25 IN NEWBURY.



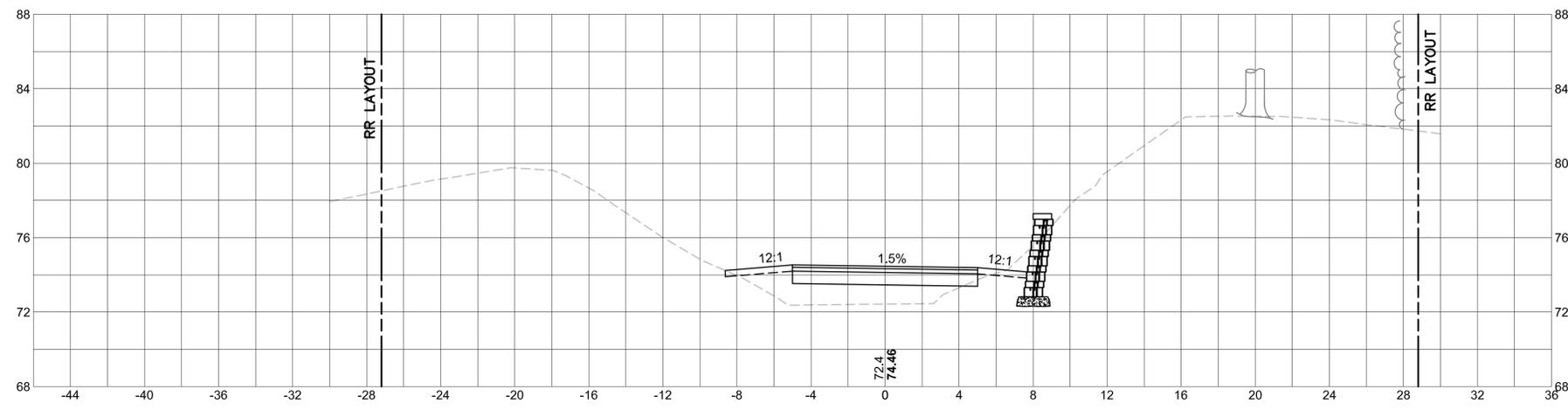
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	102	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
GEORGETOWN  
PART 6 OF 10

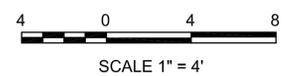
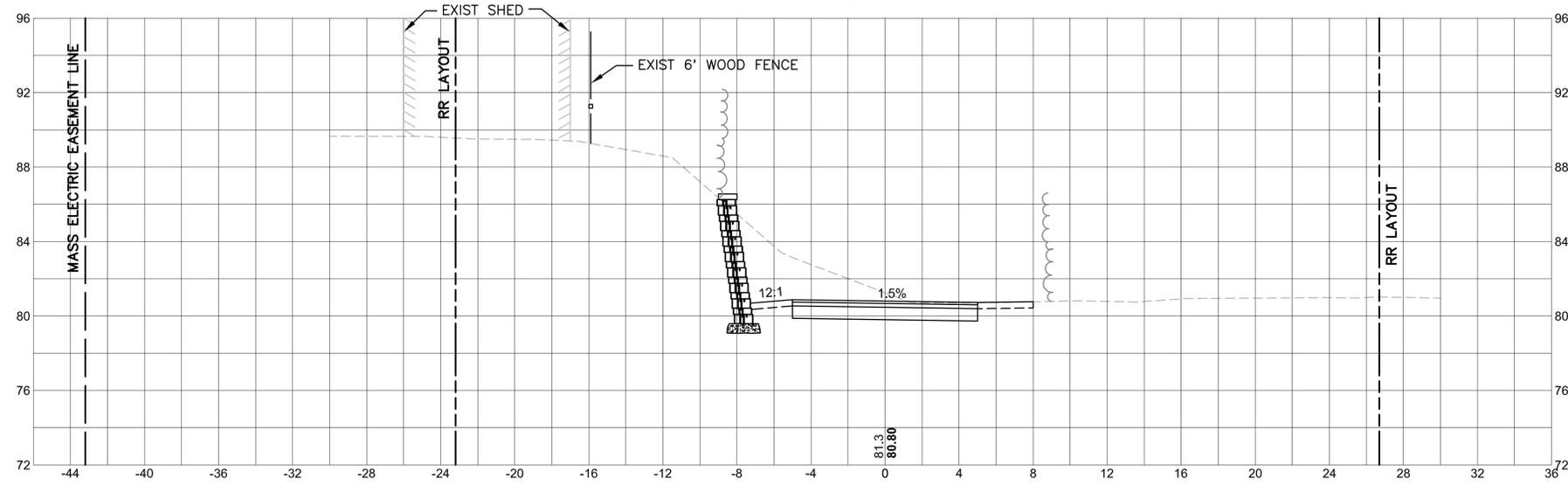
NOTES:

1. PARALLEL UTILITY POLES BEGIN AT APPROXIMATE STATION 2006+00 IN GEORGETOWN AND EXTEND THROUGH STATION 3001+25 IN NEWBURY.

2206+50



2127+00



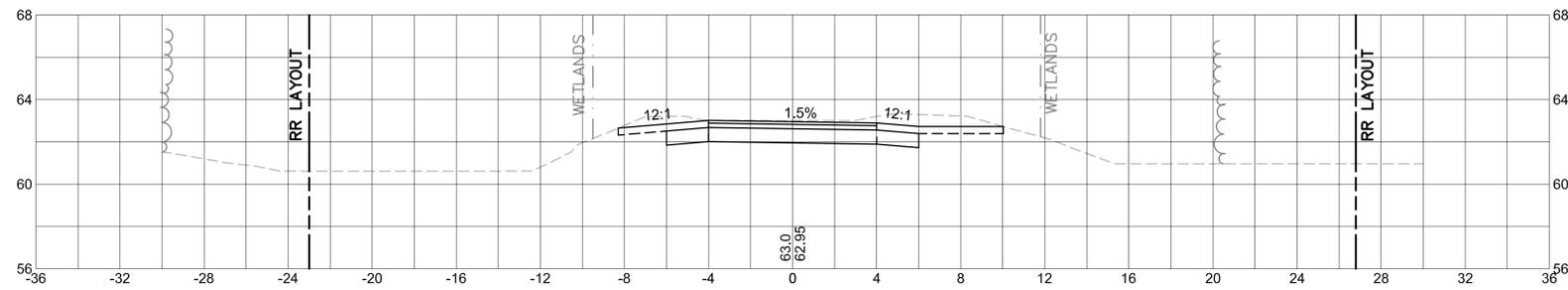
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	103	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
NEWBURY  
PART 7 OF 10

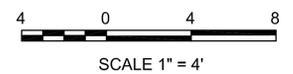
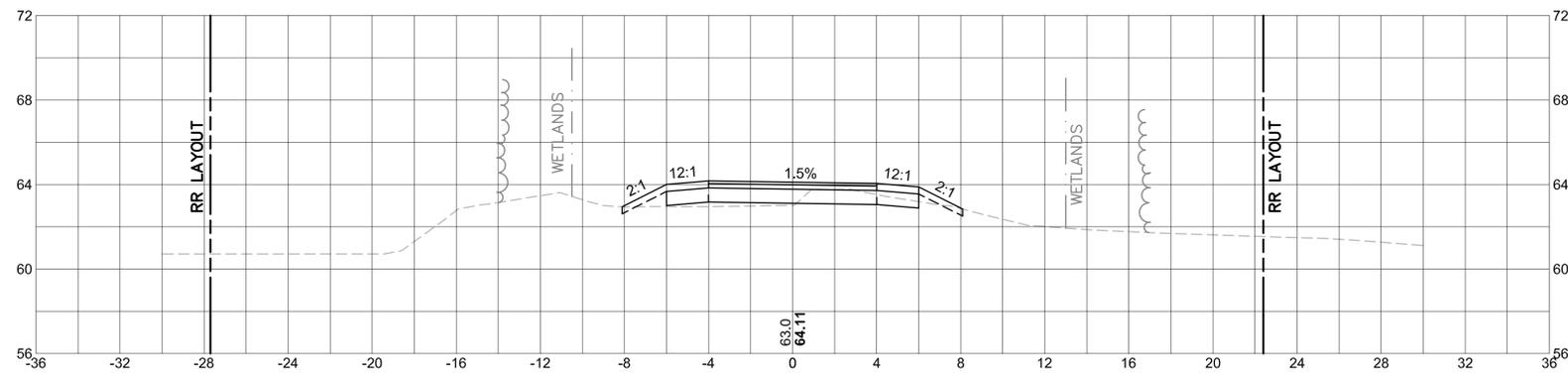
NOTES:

1. PARALLEL UTILITY POLES BEGIN AT APPROXIMATE STATION 2006+00 IN GEORGETOWN AND EXTEND THROUGH STATION 3001+25 IN NEWBURY.

3014+50



3004+00

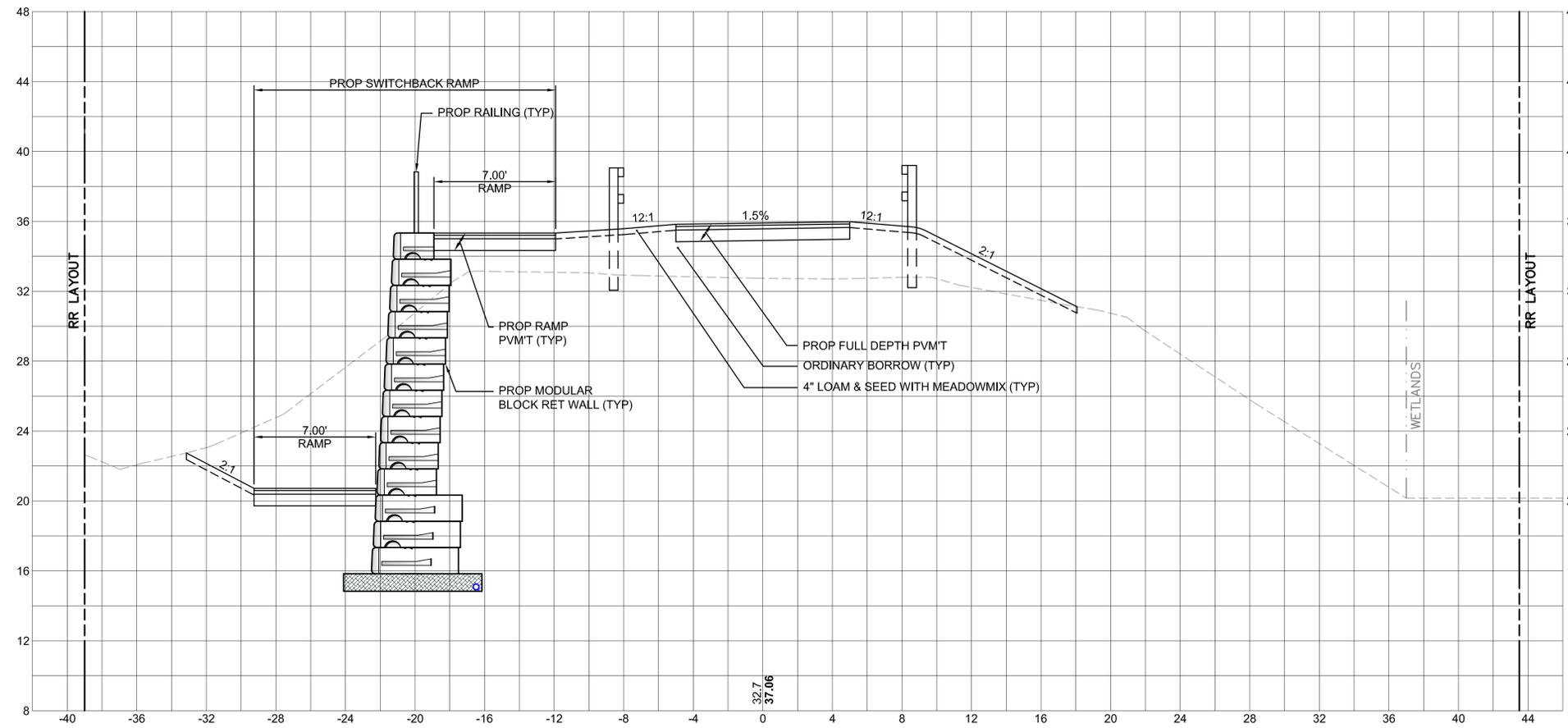




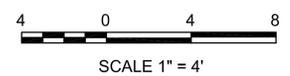
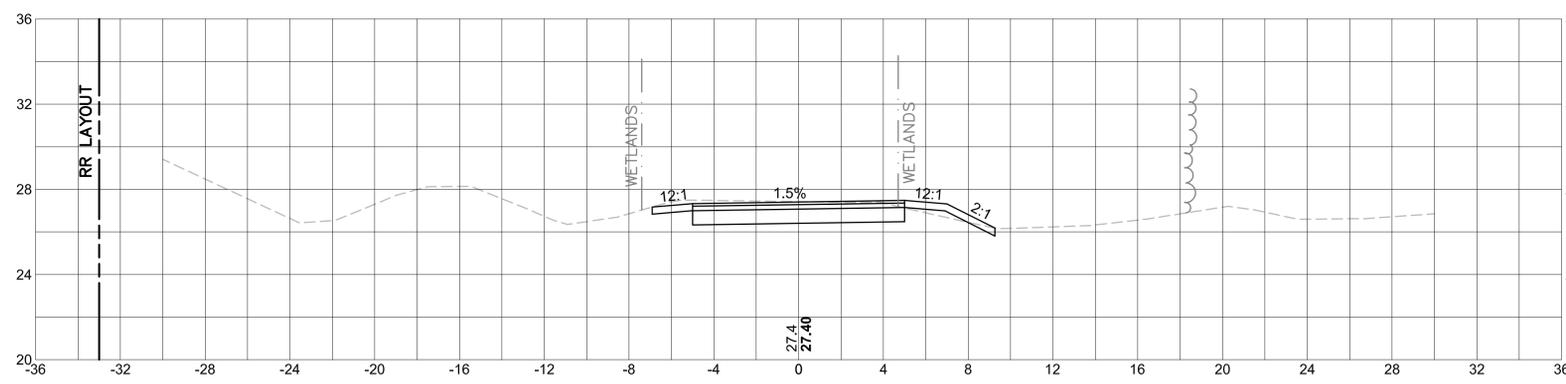
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	105	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
SALISBURY  
PART 9 OF 10

4050+00



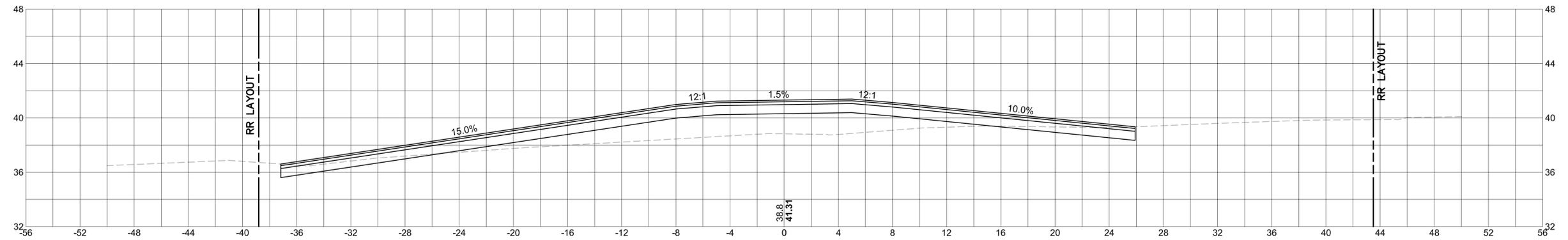
4031+00



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	106	106
PROJECT FILE NO.		605020	

CRITICAL CROSS SECTIONS  
SALISBURY  
PART 10 OF 10

4093+38



4052+00

