MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	1	30
PROJECT FILE NO.		608869	

TITLE SHEET & INDEX

608869_HD(TITLE).DWG Plotted on 7-Apr-2022 9:33 AM

PLAN AND PROFILE OF

OLD SPRINGFIELD ROAD

(BRIDGE NO. N-19-068)

IN THE CITY OF

NORTHAMPTON

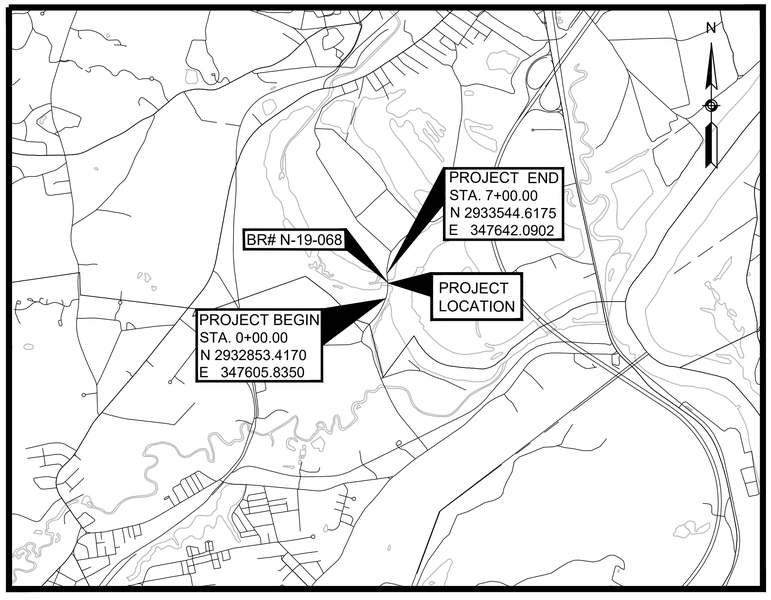
HAMPSHIRE COUNTY

FEDERAL AID PROJECT NO. XXX-XXXX (XXX)

25% SUBMITTAL

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

INDEX



0 2000 4000 6000 8000

SCALE: 1" = 2000'

LENGTH OF PROJECT = 700.00 FEET = 0.133 MILES

04/08/2022

DESIGN DESIGNATION (OLD SPRINGFIELD ROAD)

DESIGN SPEED	25 MPH
ADT (2017)	243
ADT (YYYY)	N/A
K	N/A
D	44%/56%
T (PEAK HOUR)	6%
T (AVERAGE DAY)	6%
DHV	N/A
DDHV	N/A
FUNCTIONAL CLASSIFICATION	LOCAL ROAD

DATE	DESCRIPTION	REV #
04/08/2022	25% SUBMISSION	0

massDOT
Massachusetts Department of Transportation
Highway Division

APPROVED

CHIEF ENGINEER **DATE**

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		COMPOST FILTER TUBE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

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

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
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	2	30
PROJECT FILE NO.	608869		

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

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

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT 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
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

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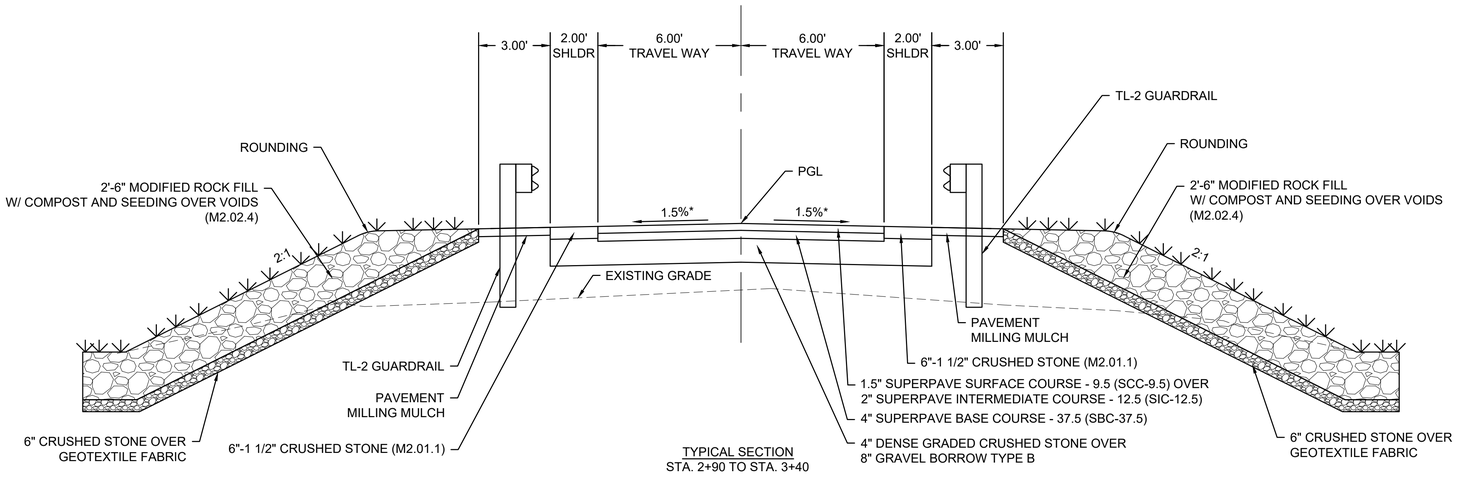
NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

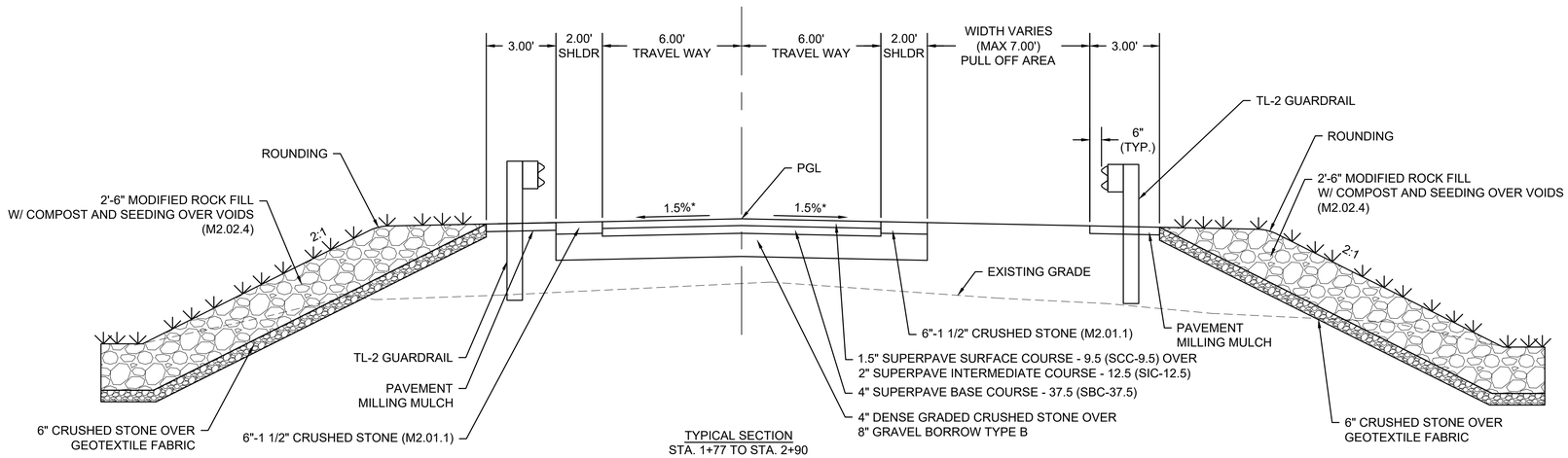
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	3	30
PROJECT FILE NO.	608869		

TYPICAL SECTIONS & NOTES
(SHEET 1 OF 2)



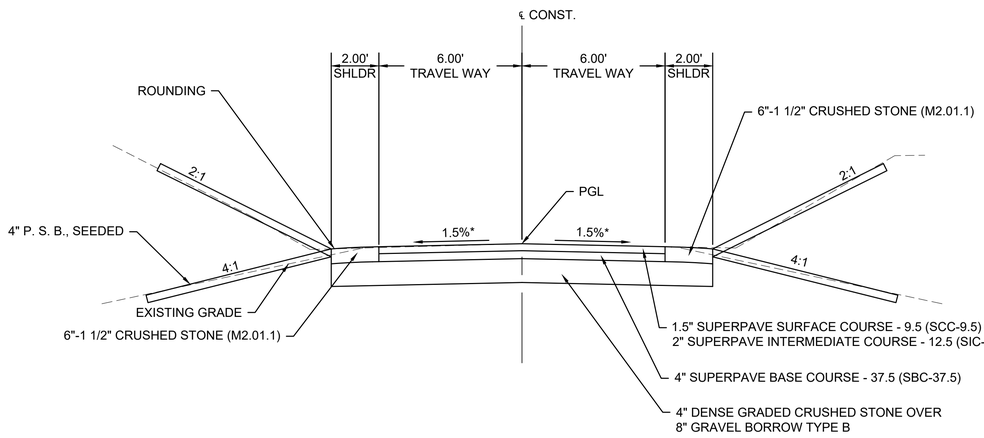
TYPICAL SECTION
STA. 2+90 TO STA. 3+40

℄ CONST.



TYPICAL SECTION
STA. 1+77 TO STA. 2+90

℄ CONST.



TYPICAL SECTION
STA. 0+50 TO 1+77
STA. 5+75 TO 7+00

* -- 0.5% CONSTRUCTION TOLERANCE

PAVEMENT NOTES:

1. BASED ON SOIL SURVEY CLASSIFICATION AND GRADATION OF SUB-BASE MATERIALS, THE FULL DEPTH CONSTRUCTION IS INTENDED TO EXCAVATE THE EXISTING ASPHALT CONCRETE PAVEMENT TO ALLOW FOR THE EXISTING GRAVEL SUB-BASE TO BE TESTED BY MASSDOT. EXISTING SUB-BASE MATERIAL MEETING SPECIFICATIONS SHALL REMAIN TO BE USED ON SITE, FINE GRADED AND COMPACTED AS DIRECTED BY THE ENGINEER.
2. ALL HMA SHALL BE IN ACCORDANCE WITH QUALITY ASSURANCE OF HMA AND SUPERPAVE SPECIFICATIONS. ASPHALT EMULSION FOR TACK COAT RS-1H SHALL BE APPLIED TO PAVEMENT LAYERS PRIOR TO PAVING FOR BONDED STRENGTH. HMA JOINT SEALANT SHALL BE APPLIED TO ALL COLD JOINTS IN SURFACE COURSE.

PROPOSED FULL DEPTH HMA CONSTRUCTION

SURFACE COURSE:	1.5" SUPERPAVE SURFACE COURSE - 9.5 (SCC-9.5) OVER 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER
BASE:	4" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER
SUBBASE:	4" DENSE GRADED CRUSHED STONE OVER 8" GRAVEL BORROW TYPE B

PROPOSED BRIDGE PAVEMENT

SURFACE COURSE:	1.5" SUPERPAVE BRIDGE SURFACE COURSE - 12.5 (SCC-B-12.5) OVER
PROTECTIVE COURSE:	1.5" SUPERPAVE BRIDGE PROTECTIVE COURSE - 12.5 (SPC-B-12.5)

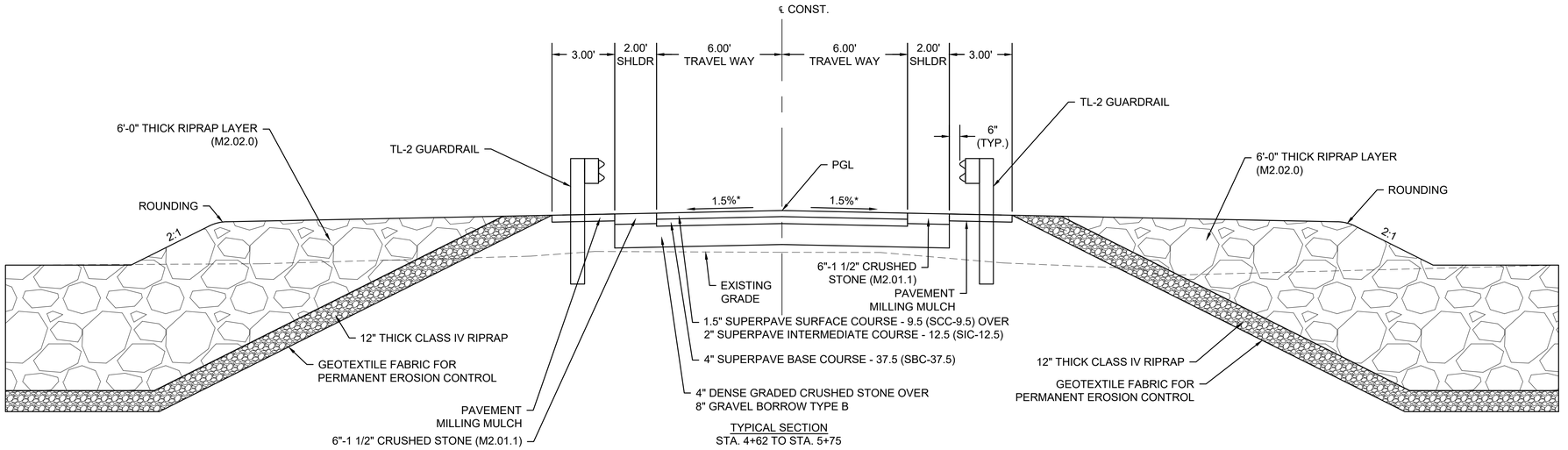
GENERAL NOTES:

1. THE LOCATION OF SUBSURFACE UTILITIES SHOWN IS APPROXIMATE AND NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATION OF EXISTING UTILITY LINES AND STRUCTURES.
2. WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
3. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
4. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
5. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
6. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
7. THE CONTRACTOR SHALL RESTORE THE EXISTING SURFACE PAVEMENTS AND TURF DISTURBED BY THE PROPOSED WORK AND SHALL FILL ALL HOLES RESULTING FROM THE REMOVAL OF FOUNDATIONS WITH MATERIALS SIMILAR TO THE EXISTING.

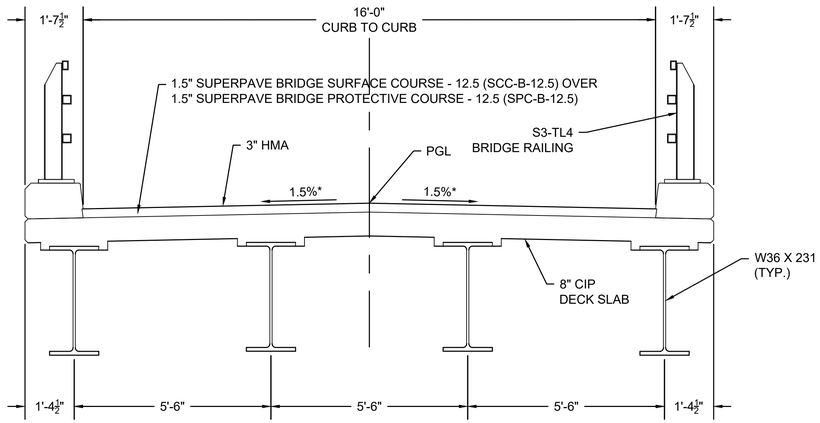
NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	4	30
PROJECT FILE NO.	608869		

TYPICAL SECTIONS & NOTES
(SHEET 2 OF 2)



TYPICAL SECTION
STA. 4+62 TO STA. 5+75



TYPICAL SECTION
STA. 3+40 TO STA. 4+62

* -- 0.5% CONSTRUCTION TOLERANCE

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	5	30
PROJECT FILE NO.	608869		

CONSTRUCTION BASELINE TIES
SHEET 1 OF 3

608869_HD(BSLN-TIES).DWG Plotted on 7-Apr-2022 9:34 AM

N

OLD SPRINGFIELD ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2932806.4090	347589.2988		N18°30'31"E 42.54'	0+42.54	2932846.7464	347602.8024
C1	0+42.54	2932846.7464	347602.8024	R=1200.00' Δ=14°21'47" L=300.82' T=151.20'		3+43.36	2933140.9353	347661.7323

OLD SPRINGFIELD ROAD
(VARIABLE WIDTH PUBLIC WAY)

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK 7662 PAGE 85
PARCEL ID 45-010-001
PYNCHON MEADOW RD

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK LC12 PAGE 044
PARCEL ID 45-067-001
OLD SPRINGFIELD ROAD

N/F
PEPIN KENNETH G & JANE A
BOOK 8178 PAGE 162
PARCEL ID 52-002-001
OLD SPRINGFIELD ROAD

APPROXIMATE PROPERTY LINE

APPROXIMATE PROPERTY LINE

TREES

UPL VERIZON #119

N28°19'45"E
160.04'

3
N: 2932736.076'
E: 347571.232'
EL: 122.972'
5/8" REBAR CAPPED
MICHAEL BAKER CONTROL

10+00

N20°54'03"E
139.63'

0+00

L1

N14°24'23"E
72.62'

N20°54'03"E
141.46'

UPL VERIZON #118

N86°03'07"E
12.82'

N1°01'48"E
39.46'

11 PC +42.54

SURVEY TRAVERSE

+40.54 PI

N18°01'43"E 287.20'

1

12

N68°44'59"W
38.99'

S19°26'11"W
172.25'

UPL MECO #144

N14°32'47"E
114.37'

2
+36.02
PI

C1

13

N14°32'47"E
118.39'

UPL MECO #143

TREES

GRAVEL

WF1-107

WF1-106

WF1-105

WF

GRAVEL

TREES

B6-105

2
N: 2933009.179'
E: 347660.120'
EL: 108.261'
5/8" REBAR CAPPED
MICHAEL BAKER CONTROL

EDGE OF WATER

CONTINUED ON SHEET NO. 6

THE OXBOW

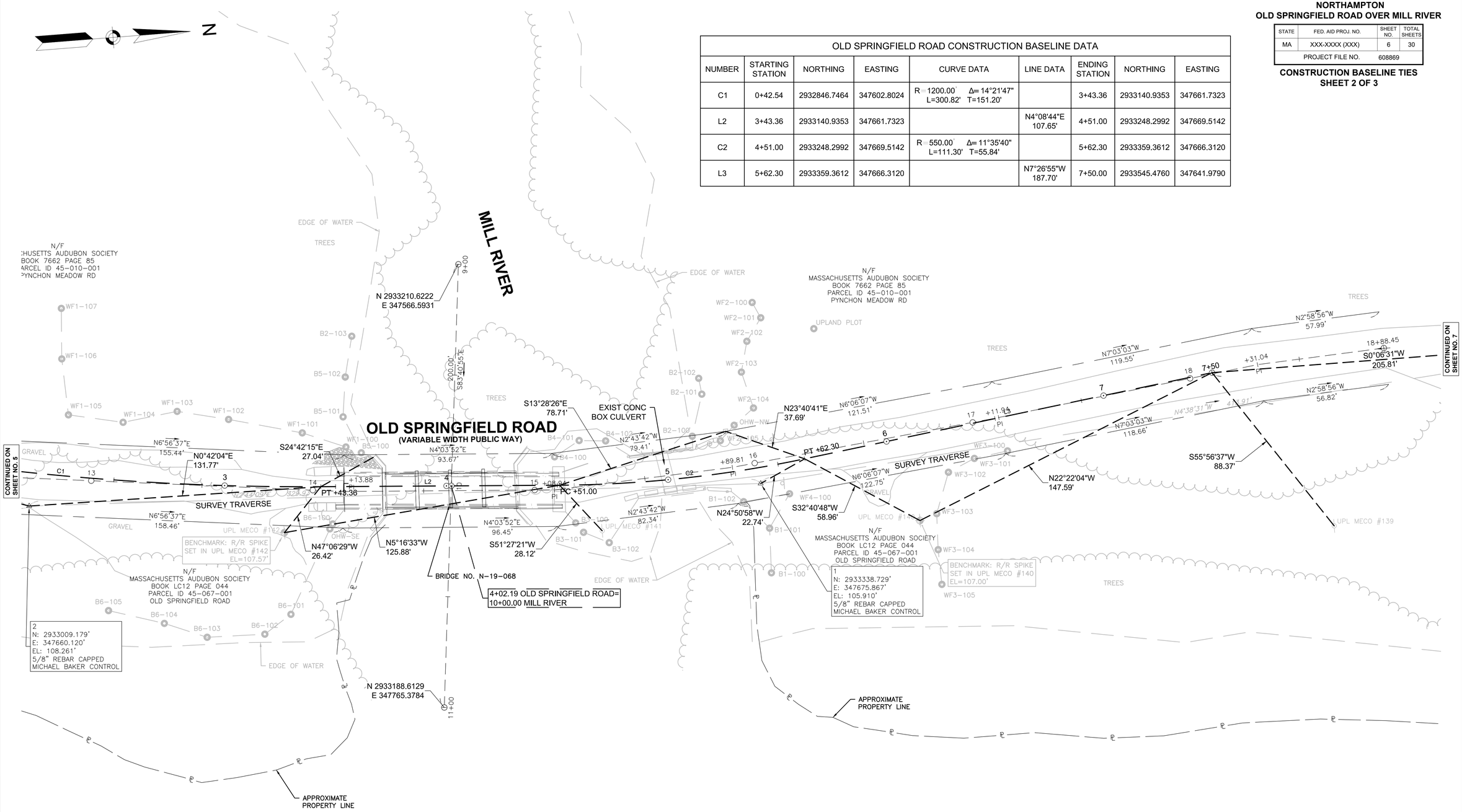
NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	6	30
PROJECT FILE NO.	608869		

CONSTRUCTION BASELINE TIES
SHEET 2 OF 3

608869_HDBSLN-TIES).DWG Plotted on 7-Apr-2022 9:34 AM

OLD SPRINGFIELD ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C1	0+42.54	2932846.7464	347602.8024	R=1200.00' Δ=14°21'47" L=300.82' T=151.20'		3+43.36	2933140.9353	347661.7323
L2	3+43.36	2933140.9353	347661.7323		N4°08'44"E 107.65'	4+51.00	2933248.2992	347669.5142
C2	4+51.00	2933248.2992	347669.5142	R=550.00' Δ=11°35'40" L=111.30' T=55.84'		5+62.30	2933359.3612	347666.3120
L3	5+62.30	2933359.3612	347666.3120		N7°26'55"W 187.70'	7+50.00	2933545.4760	347641.9790



THE OXBOW

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	7	30
PROJECT FILE NO.	608869		

CONSTRUCTION BASELINE TIES
SHEET 3 OF 3

N

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK 7662 PAGE 85
PARCEL ID 45-010-001
PYNCHON MEADOW RD

TREES

2120
N: 2933751.281'
E: 347642.369'
EL: 107.729'
P.P. IN I.R.

CONTINUED ON SHEET NO. 6

18+88.45
S0°06'31"W
205.81'

OLD SPRINGFIELD ROAD
(VARIABLE WIDTH PUBLIC WAY)

N13°33'23"E 392.20'

SURVEY TRAVERSE

2121
N: 2934132.554'
E: 347734.301'
EL: 111.030'
P.P. IN I.R.

UPL MECO #139

UPL MECO #138

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK LC12 PAGE 044
PARCEL ID 45-067-001
OLD SPRINGFIELD ROAD

EDGE OF WATER

APPROXIMATE PROPERTY LINE

APPROXIMATE PROPERTY LINE

THE OXBOW

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK 1186 PAGE 043
PARCEL ID 45-064-001
OLD SPRINGFIELD ROAD

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

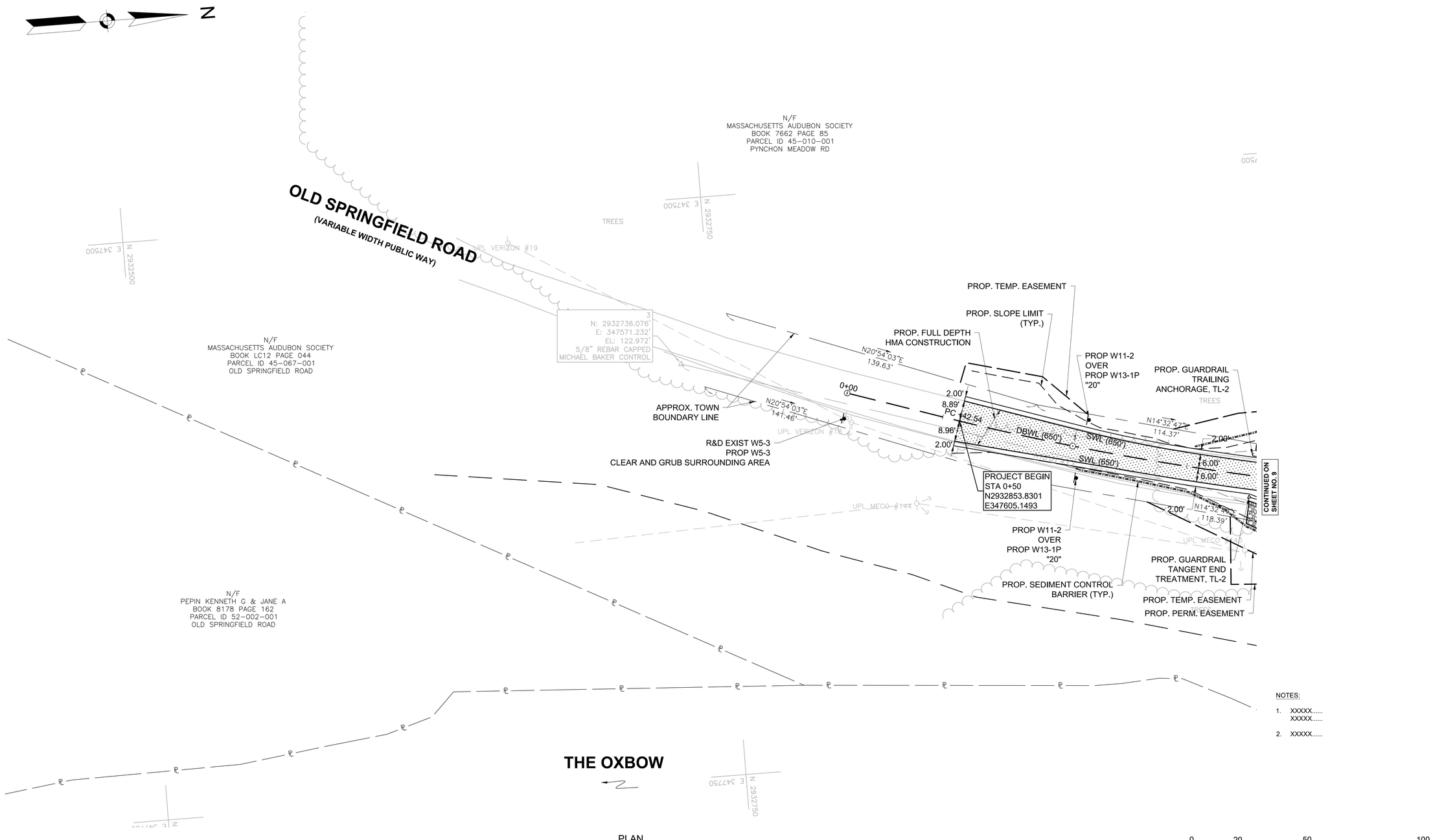
NONE

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	8	30
PROJECT FILE NO.	608869		

CONSTRUCTION PLANS
SHEET 1 OF 3

608869_HD(CNST-PLAN).DWG Plotted on 7-Apr-2022 9:36 AM



NOTES:

1. XXXXX.....
   XXXXX.....
2. XXXXX.....

PLAN

FOR PROFILE PLANS:
SEE SHEET NOS. 11-13

0 20 50 100
SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

STA 1+78 TO STA 1+86 RT (GUARDRAIL TANGENT END TREATMENT)
STA 1+86 TO STA 3+37 RT (GUARDRAIL, TL-2, SINGLE FACED)
STA 1+77 TO STA 1+86 LT (GUARDRAIL TRAILING ANCHORAGE)
STA 1+86 TO STA 3+37 LT (GUARDRAIL, TL-2 SINGLE FACED)
STA 4+62 TO STA 5+68 RT (GUARDRAIL, TL-2, SINGLE FACED)
STA 5+68 TO STA 5+77 RT (GUARDRAIL TRAILING ANCHORAGE)
STA 4+63 TO STA 5+68 LT (GUARDRAIL, TL-2, SINGLE FACED)
STA 5+68 TO STA 5+76 LT (GUARDRAIL TANGENT END TREATMENT)

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

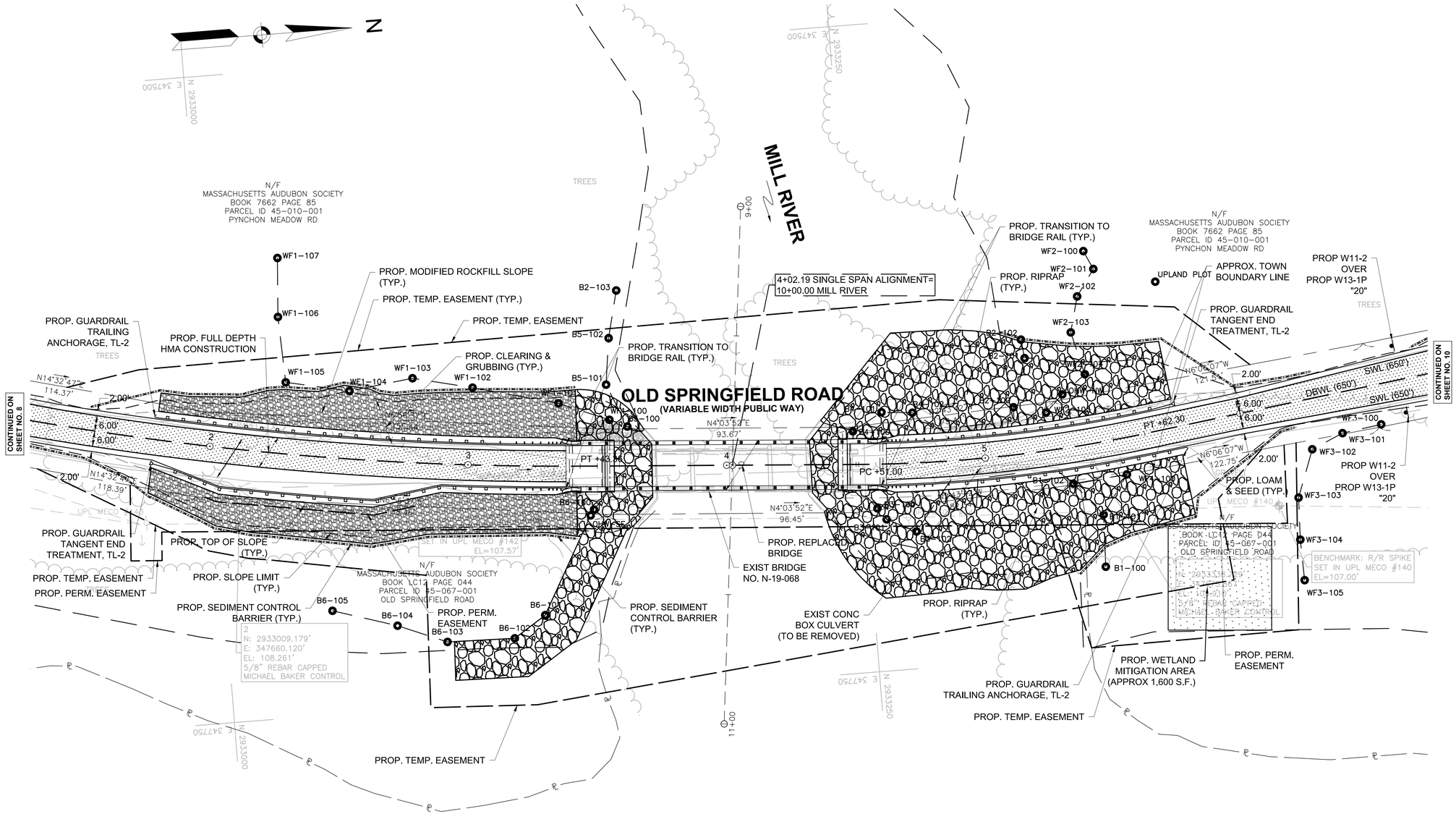
NONE

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	9	30
PROJECT FILE NO.	608869		

CONSTRUCTION PLANS
SHEET 2 OF 3

608869_HD(CNST-PLAN).DWG Plotted on 7-Apr-2022 9:36 AM



THE OXBOW

PLAN

NOTES:

1. XXXXX.....
   XXXXX.....
2. XXXXX.....

FOR PROFILE PLANS:
SEE SHEET NOS. 11-13

0 20 50 100
SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

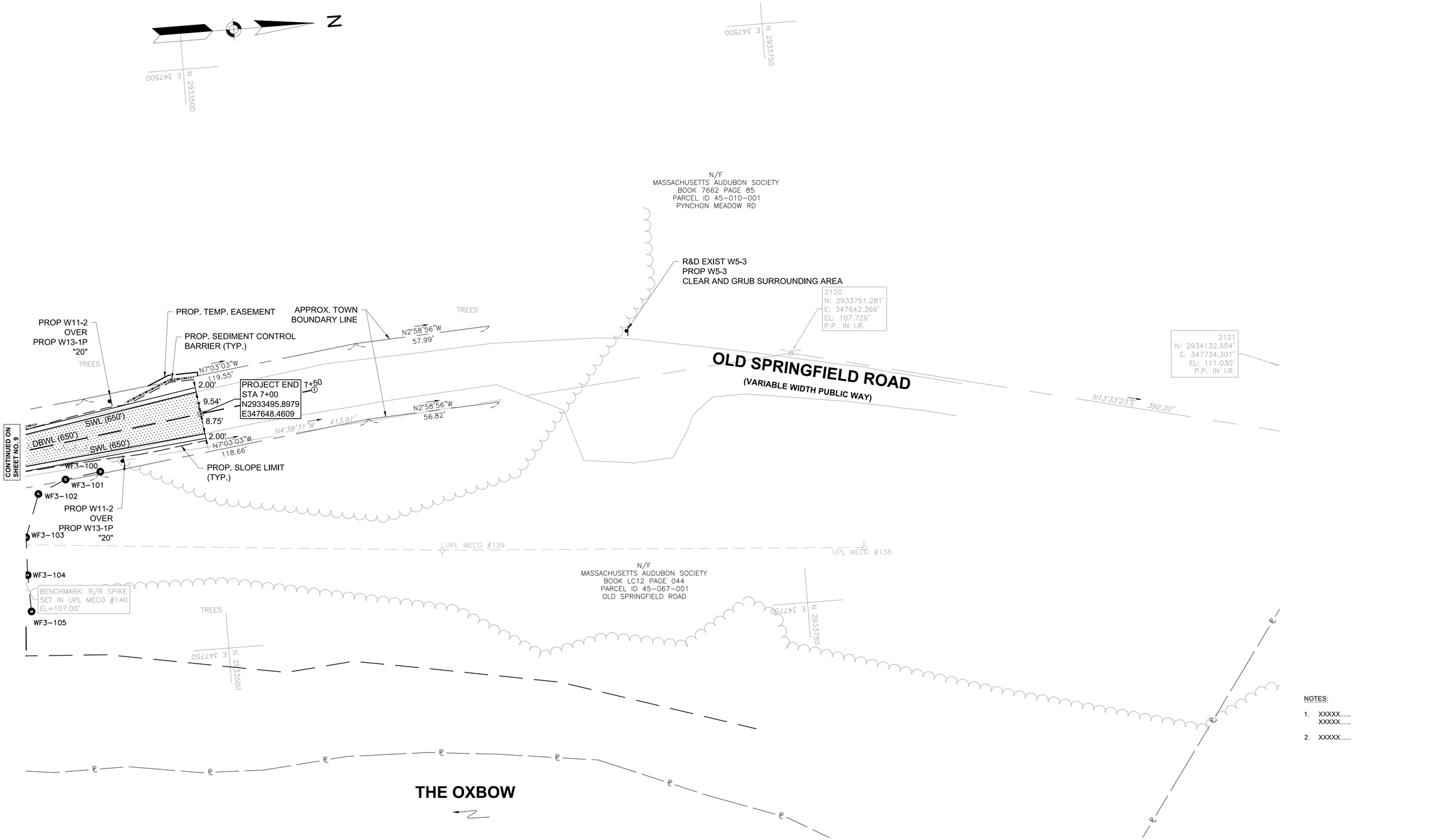
NONE

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	10	30
PROJECT FILE NO.	608869		

CONSTRUCTION PLANS
SHEET 3 OF 3

608869_HD(CNST-PLAN).DWG Plotted on 7-Apr-2022 9:36 AM



PLAN

NOTES:

1. XXXXX.....
   XXXXX.....
2. XXXXX.....

FOR PROFILE PLANS:
SEE SHEET NOS. 11-13

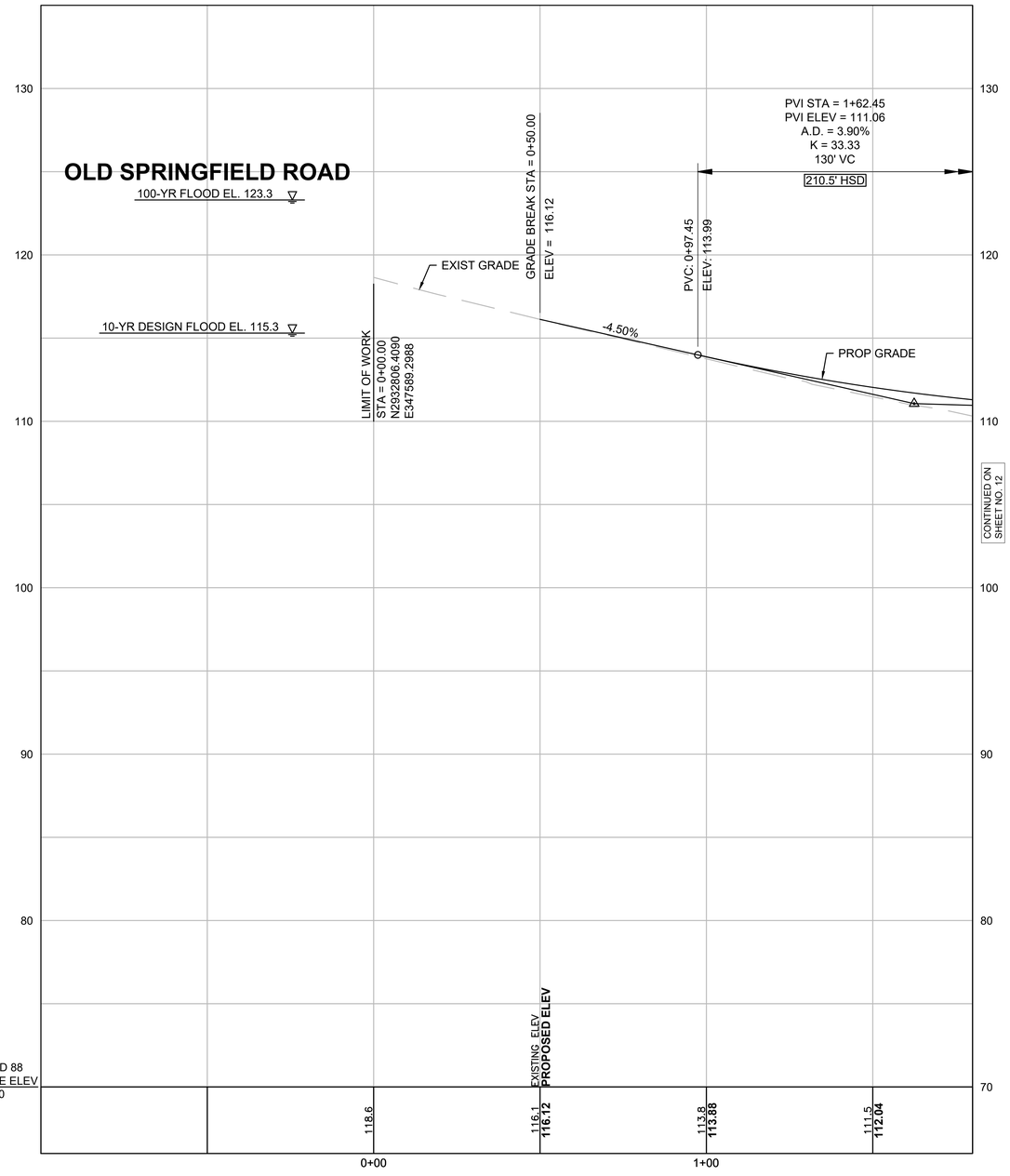
0 20 50 100

SCALE: 1" = 20'

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	11	30
PROJECT FILE NO.	608869		

PROFILES
SHEET 1 OF 3



FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 8-10

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

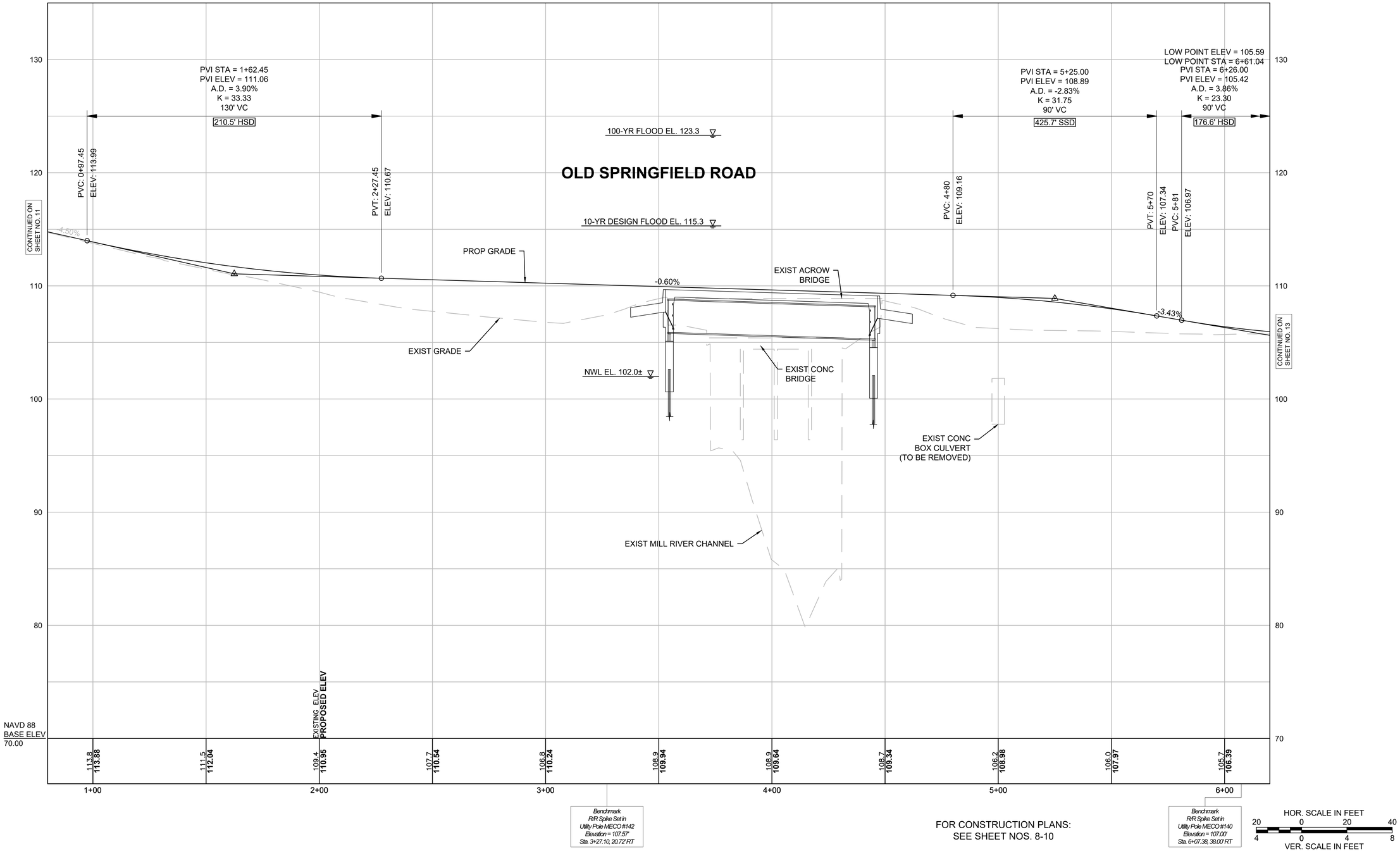
608869_HD(PROF).DWG Plotted on 8-Apr-2022 1:03 PM

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	12	30
PROJECT FILE NO.	608869		

PROFILES
SHEET 2 OF 3

608869_HD(PROF).DWG Plotted on 8-Apr-2022 1:03 PM

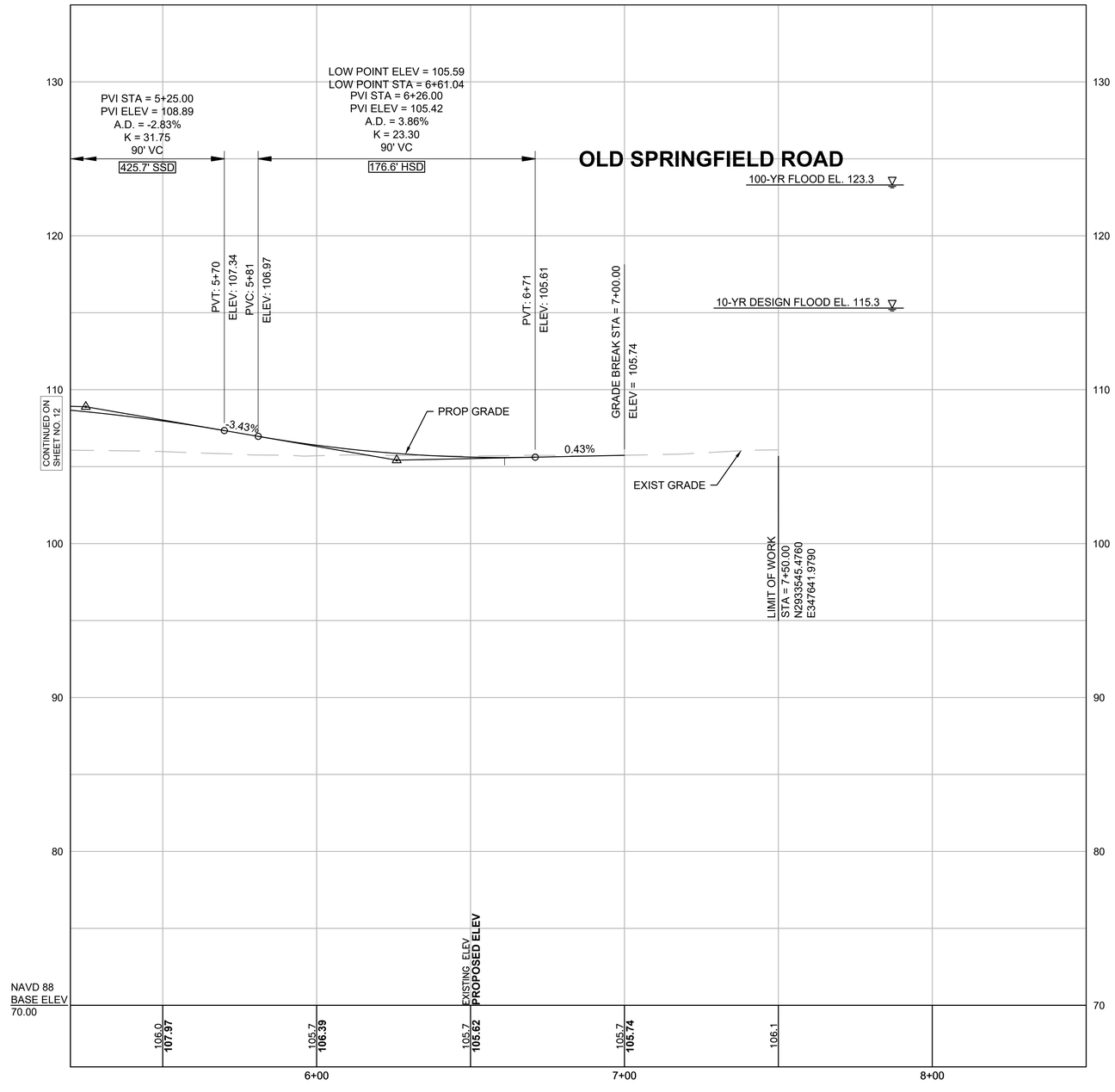


FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 8-10

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	13	30
PROJECT FILE NO.	608869		

PROFILES
SHEET 3 OF 3



FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 8-10

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

608869_HD(PROF).DWG Plotted on 8-Apr-2022 1:03 PM

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	14	30
PROJECT FILE NO.	608869		

CURB TIE & GRADING PLANS
SHEET 1 OF 3

608869_HD(TIE-GRAD).DWG Plotted on 7-Apr-2022 9:38 AM

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	105.910	2933338.7290	347675.8670	5/8" REBAR – MBI CAPPED
2	108.261	2933009.1790	347660.1200	5/8" REBAR – MBI CAPPED
3	122.972	2932736.0760	347571.2320	5/8" REBAR – MBI CAPPED
2120	107.729	2933751.2810	347642.3690	P.P IN I.R.
2121	111.030	2934132.5540	347734.3010	P.P IN I.R.

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	500.00	46.06	23.05	5°16'42"

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK 7662 PAGE 85
PARCEL ID 45-010-001
PYNCHON MEADOW RD

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK LC12 PAGE 044
PARCEL ID 45-067-001
OLD SPRINGFIELD ROAD

N/F
PEPIN KENNETH G & JANE A
BOOK 8178 PAGE 162
PARCEL ID 52-002-001
OLD SPRINGFIELD ROAD

OLD SPRINGFIELD ROAD
(VARIABLE WIDTH PUBLIC WAY)

TREES

UPL VERIZON #19

UPL VERIZON

UPL MECO #144

UPL MECO #143

3
N: 2932736.076'
E: 347571.232'
EL: 122.972'
5/8" REBAR CAPPED
MICHAEL BAKER CONTROL

PROJECT BEGIN
STA 0+50
N2932853.8301
E347605.1493

10+00

N20°54'03"E 139.63'

N20°54'03"E 141.46'

L1

PC +42.54

2.00'
115.95

8.89'

8.96'

40.64'

2.00'
115.95

PC
113.62
113.73

2.00'
7.23'

+02.46
6.42'

113.75
113.64

2.00'

PC
112.42

N14°32'43"E
118.39'

+34.05
6.12'

+48.75
6.00'

2.00'
PCC
111.96
6.00'

6.00'

111.96

2.00'

CONTINUED ON SHEET NO. 15

OLD SPRINGFIELD ROAD CONSTRUCTION BASELINE DATA			
DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
PI STA 0+00.00		2932806.4090	347589.2988
	L = 42.54' N18°30'31"E		
PC STA 0+42.54		2932846.7464	347602.8024
	R = 1200.00' Δ= 14°21'47" L=300.82' T=151.20'		
PT STA 3+43.36		2933140.9353	347661.7323
	L = 107.65' N4°08'44"E		
PC STA 4+51.00		2933248.2992	347669.5142
	R = 550.00' Δ= 11°35'40" L=111.30' T=55.84'		
PT STA 5+62.30		2933359.3612	347666.3120
	L = 187.70' N7°26'55"W		
PI STA 7+50.00		2933545.4760	347641.9790

THE OXBOW

PLAN

0 20 50 100
SCALE: 1" = 20'

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

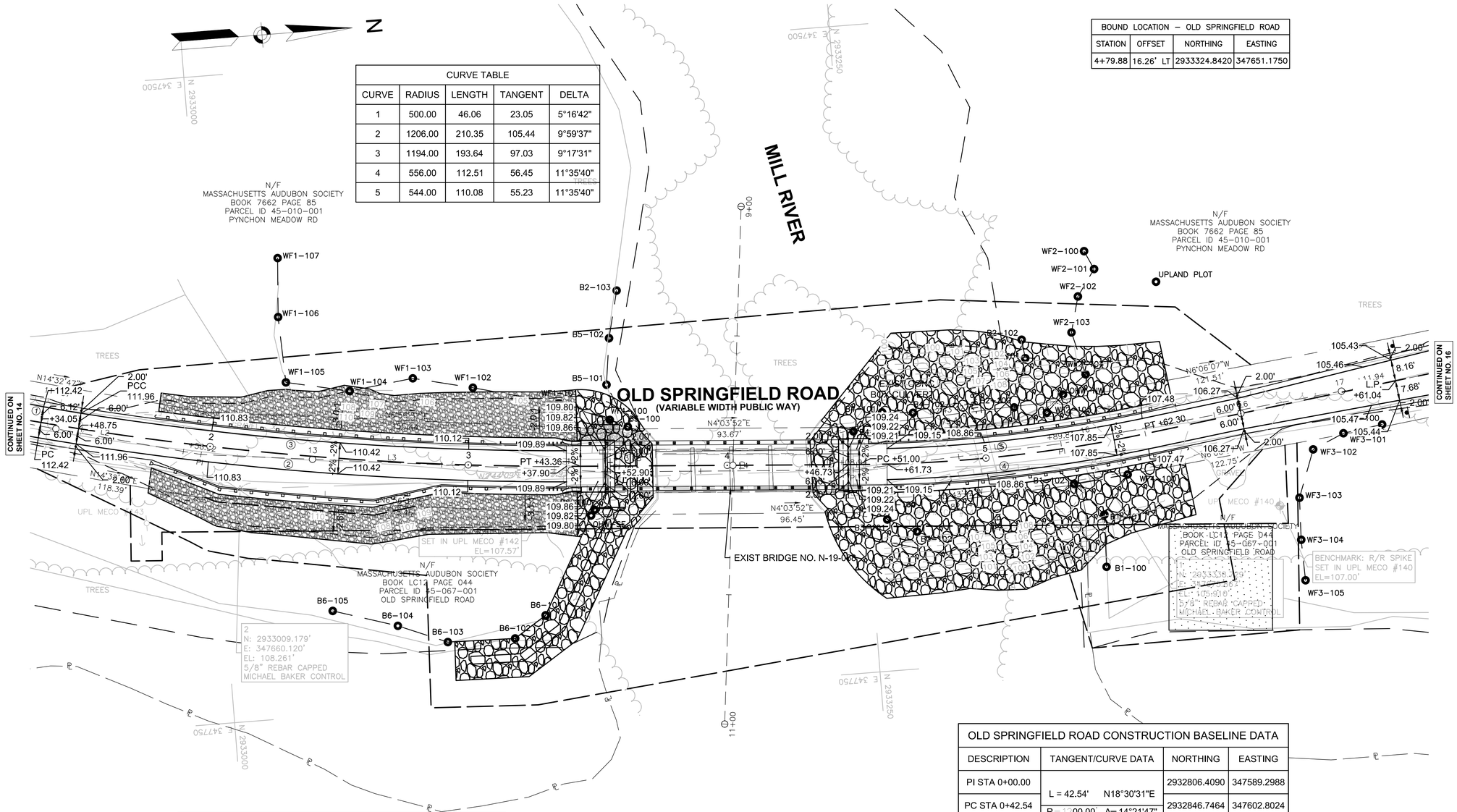
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	15	30
PROJECT FILE NO.	608869		

CURB TIE & GRADING PLANS
SHEET 2 OF 3

608869_HD(TIE-GRAD).DWG Plotted on 7-Apr-2022 9:38 AM

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	500.00	46.06	23.05	5°16'42"
2	1206.00	210.35	105.44	9°59'37"
3	1194.00	193.64	97.03	9°17'31"
4	556.00	112.51	56.45	11°35'40"
5	544.00	110.08	55.23	11°35'40"

BOUND LOCATION – OLD SPRINGFIELD ROAD			
STATION	OFFSET	NORTHING	EASTING
4+79.88	16.26' LT	2933324.8420	347651.1750



SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	105.910	2933338.7290	347675.8670	5/8" REBAR – MBI CAPPED
2	108.261	2933009.1790	347660.1200	5/8" REBAR – MBI CAPPED
3	122.972	2932736.0760	347571.2320	5/8" REBAR – MBI CAPPED
2120	107.729	2933751.2810	347642.3690	P.P IN I.R.
2121	111.030	2934132.5540	347734.3010	P.P IN I.R.

OLD SPRINGFIELD ROAD CONSTRUCTION BASELINE DATA			
DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
PI STA 0+00.00	L = 42.54' N18°30'31"E	2932806.4090	347589.2988
PC STA 0+42.54	R = 1200.00' Δ= 14°21'47" L=300.82' T=151.20'	2932846.7464	347602.8024
PT STA 3+43.36	L = 107.65' N4°08'44"E	2933140.9353	347661.7323
PC STA 4+51.00	R = 550.00' Δ= 11°35'40" L=111.30' T=55.84'	2933248.2992	347669.5142
PT STA 5+62.30	L = 187.70' N7°26'55"W	2933359.3612	347666.3120
PI STA 7+50.00		2933545.4760	347641.9790

PLAN

0 20 50 100
SCALE: 1" = 20'

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	16	30
PROJECT FILE NO.	608869		

CURB TIE & GRADING PLANS
SHEET 3 OF 3

608869_HD(TIE-GRAD).DWG Plotted on 7-Apr-2022 9:39 AM

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	105.910	2933338.7290	347675.8670	5/8" REBAR – MBI CAPPED
2	108.261	2933009.1790	347660.1200	5/8" REBAR – MBI CAPPED
3	122.972	2932736.0760	347571.2320	5/8" REBAR – MBI CAPPED
2120	107.729	2933751.2810	347642.3690	P.P IN I.R.
2121	111.030	2934132.5540	347734.3010	P.P IN I.R.

OLD SPRINGFIELD ROAD CONSTRUCTION BASELINE DATA			
DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
PI STA 0+00.00		2932806.4090	347589.2988
	L = 42.54' N18°30'31"E		
PC STA 0+42.54		2932846.7464	347602.8024
	R= 1200.00' Δ= 14°21'47" L=300.82' T=151.20'		
PT STA 3+43.36		2933140.9353	347661.7323
	L = 107.65' N4°08'44"E		
PC STA 4+51.00		2933248.2992	347669.5142
	R= 550.00' Δ= 11°35'40" L=111.30' T=55.84'		
PT STA 5+62.30		2933359.3612	347666.3120
	L = 187.70' N7°26'55"W		
PI STA 7+50.00		2933545.4760	347641.9790

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK 7662 PAGE 85
PARCEL ID 45-010-001
PYNCHON MEADOW RD

2120
N: 2933751.281'
E: 347642.369'
EL: 107.729'
P.P. IN I.R.

2121
N: 2934132.554'
E: 347734.301'
EL: 111.030'
P.P. IN I.R.

TREES

N2°58'56"W
57.99'

N7°03'03"W
119.55'

105.55
2.00'
9.54'
105.43
2.00'
105.46
8.16'
11.94
17
L.P.
+61.04
7.68'
2.00'
105.56
105.47
105.44
WF3-101
WF3-102
WF3-103
WF3-104
WF3-105
2.00'
8.75'
N7°03'03"W
118.66'
2.2%
2.2%

PROJECT END
STA 7+00
N2933495.8979
E347648.4609

+31.04
PI
L8
18+88.45

OLD SPRINGFIELD ROAD
(VARIABLE WIDTH PUBLIC WAY)

N4°38'31"W 413.91'
N2°58'56"W
56.82'
N13°33'23"E 392.20'

CONTINUED ON SHEET NO. 15

BENCHMARK: R/R SPIKE
SET IN UPL MECO #140
EL=107.00'

UPL MECO #139
UPL MECO #138

N/F
MASSACHUSETTS AUDUBON SOCIETY
BOOK LC12 PAGE 044
PARCEL ID 45-067-001
OLD SPRINGFIELD ROAD

THE OXBOW

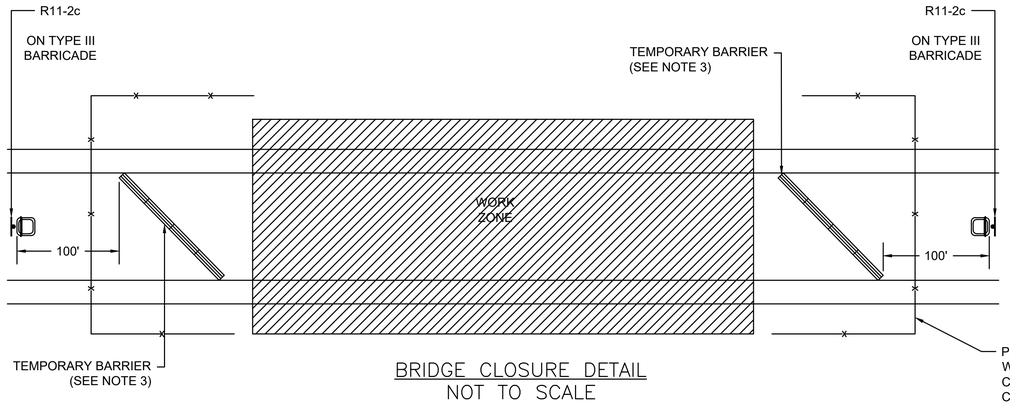
PLAN

0 20 50 100
SCALE: 1" = 20'

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	17	30
PROJECT FILE NO.	608869		

TEMPORARY TRAFFIC CONTROL PLAN
SHEET 1 OF 2



BRIDGE CLOSURE DETAIL
NOT TO SCALE

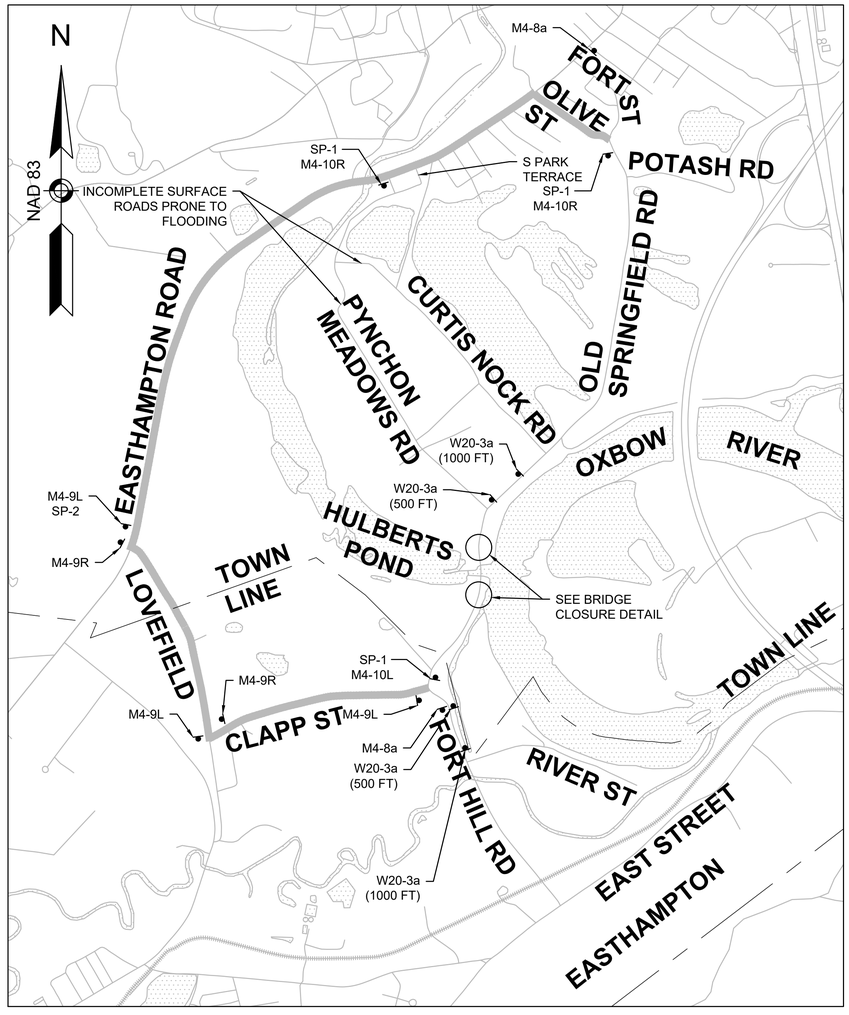
BRIDGE CLOSURE DETAIL NOTES

1. TO BE USED IN CONJUNCTION WITH PROPOSED DETOUR DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL REMOVE SEGMENTS OF TEMPORARY CONCRETE BARRIER AS NECESSARY TO GAIN ACCESS TO THE SITE. CONTRACTOR SHALL REPLACE THE BARRIER AT THE END OF EACH WORKING DAY TO SECURE THE SITE. THE COST ASSOCIATED WITH REMOVING AND RESETTING THE TEMPORARY CONCRETE BARRIER SHALL BE CONSIDERED INCIDENTAL TO ITEM 853.2.
3. PROPOSED TEMPORARY BARRIER SHALL CONFORM TO NCHRP 350 TEST LEVEL 2

TRAFFIC MANAGEMENT NOTES

GENERAL

1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT - HIGHWAY DIVISION'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
2. THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 1 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL PROVIDE A SAFE TEMPORARY PEDESTRIAN ACCESS WHERE EXISTING SIDEWALKS OR OTHER PEDESTRIAN AREAS ARE AFFECTED BY CONSTRUCTION WORK. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
4. PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
6. ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED.
7. CONSTRUCTION SIGNING SHOWN ON THE ADVANCE SIGNING PLAN SHALL ONLY BE USED WHEN WORK IS BEING DONE WHICH RESTRICTS TRAFFIC.
8. STANDARD ORANGE OR FLUORESCENT RED-ORANGE FLAGS (16"x16" MIN.) MAY BE ATTACHED TWO (2) EACH ON ALL ADVANCE WARNING SIGNS. FLAGS SHALL NOT INTERFERE WITH A CLEAR VIEW OF THE SIGN FACE. IF USED, THE COST FOR THE FLAGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGNS WITH NO ADDITIONAL PAYMENT.
9. EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.
10. ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
11. IF USED, ALL W20-4 AND W20-5 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 3 ABOVE.
12. THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT.
13. REFLECTORIZED CONES SHALL BE 36" HIGH.
14. PLASTIC DRUMS MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
15. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THIS CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.



DETOUR AND ADVANCED WARNING SIGN PLAN
SCALE: 1" = 1000'

TRAFFIC MANAGEMENT LEGEND

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

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

IF USED, PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL CONFORM TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AS AMENDED AND SHOULD BE PLACED ON THE SHOULDER OF THE ROADWAY OR IF PRACTICAL SET WELL AWAY FROM THE TRAVEL LANE. MESSAGE SIGNS SHOULD BE PROTECTED WITH RETROREFLECTIVE TEMPORARY TRAFFIC CONTROL DEVICES WHEN PLACED WITHIN THE AVAILABLE CLEAR ZONE OR ELSE SHIELDED WITH A BARRIER OR CRASH CUSHION. THE FINAL LOCATION AND USE OF THE PCMS SHALL BE DETERMINED BY THE ENGINEER.

TWO (2) WEEKS PRIOR TO BRIDGE CLOSURE, PCMS SHALL BE INSTALLED WITH THE FOLLOWING
SUGGESTED MESSAGE:

MESSAGE 1A:

O	L	D					
S	P	R	I	N	G	F	I
E	L	D		R	O	A	D

MESSAGE 1B:

B	R	I	D	G	E		
C	L	O	S	E	D		
D	A	T	E			X	X

WHILE BRIDGE CLOSURE IS IN EFFECT, PCMS WILL DISPLAY THE FOLLOWING SUGGESTED MESSAGE UNTIL BRIDGE IS AGAIN OPEN FOR TRAFFIC:

MESSAGE 2A:

O	L	D					
S	P	R	I	N	G	F	I
E	L	D		R	O	A	D

MESSAGE 2B:

B	R	I	D	G	E		
C	L	O	S	E	D		

MESSAGE 2C:

F	O	L	L	O	W		
D	E	T	O	U	R		

ALTERNATIVE MESSAGES MAY BE DETERMINED BY THE ENGINEER IN THE FIELD.

*EXACT LOCATION OF PCMS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	18	30
PROJECT FILE NO.	608869		

TEMPORARY TRAFFIC CONTROL PLAN
SHEET 2 OF 2

608869_HD(TRAF-CTRL).DWG Plotted on 7-Apr-2022 9:39 AM

TRAFFIC SIGN SUMMARY

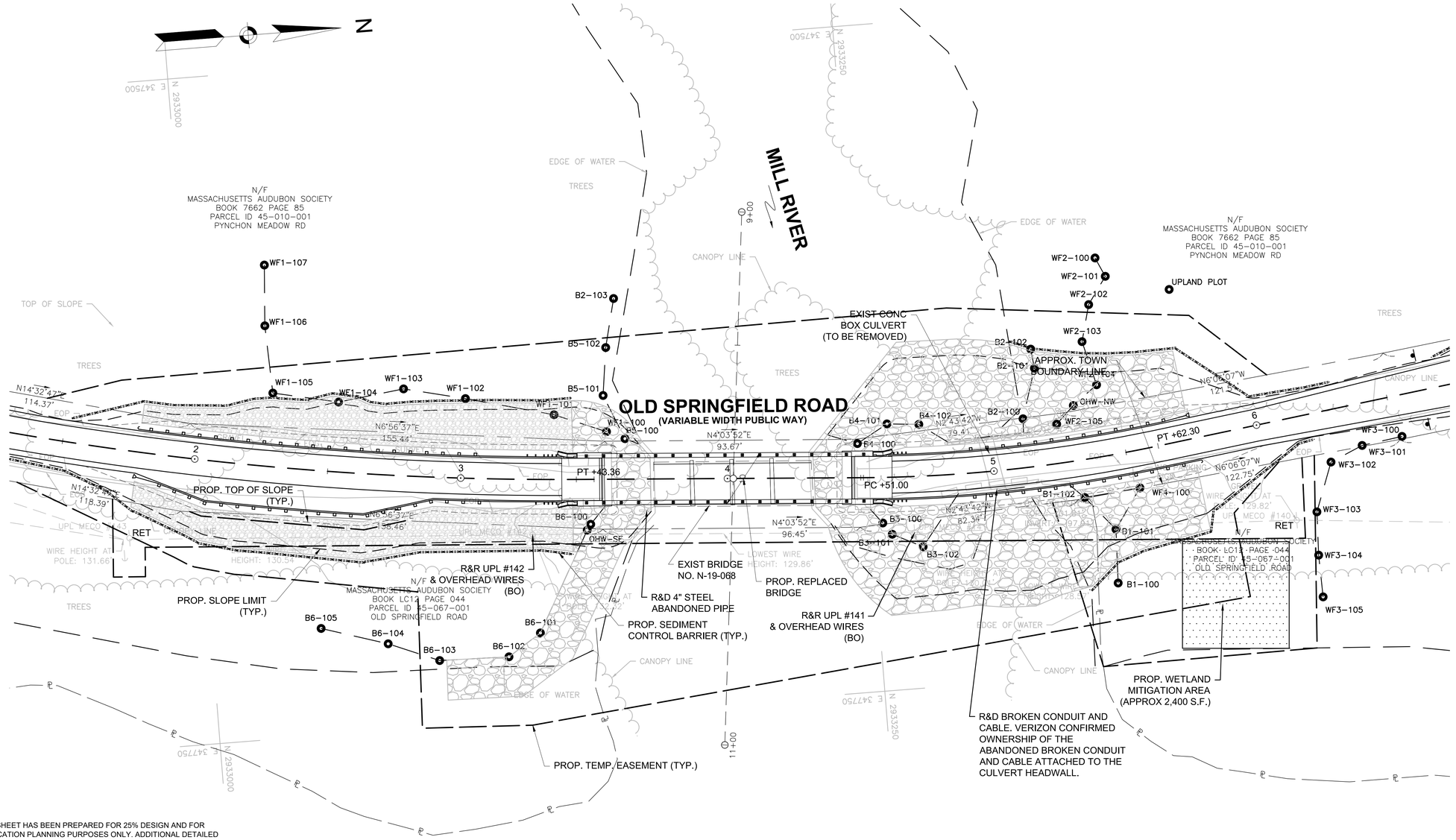
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
SP-1	6.5'	3.0'	OLD SPRINGFIELD RD. BRIDGE CLOSED LOCAL TRAFFIC ONLY	6" 6" 6"	4.50 4.50 4.50 4.50	-	3	WHITE REFL. M9.30.0 TY III	BLACK REFL. M9.30.0 TY III	BLACK REFL. M9.30.0 TY III	PORTABLE	SEE DETOUR AND BRIDGE CLOSURE PLAN	19.50 EA =58.50
M4-8a	24"	18"	END DETOUR	SEE 1988 MUTCD STANDARDS			2	ORANGE REFL. M9.30.0 TY III					3.00 EA =6.00
M4-9R	30"	24"	DETOUR →				2						5.00 EA =10.00
M4-9L	30"	24"	DETOUR ←				1						5.00
M4-10R	48"	18"	DETOUR				2						6.00 EA =12.00
M4-10L	48"	18"	DETOUR				3						6.00 EA =18.00
R11-2c	48"	30"	BRIDGE CLOSED	SEE MHD 1996 STANDARD DWGS			2	WHITE REFL. M9.30.0 TY III					10.00 EA =20.00
W20-3a (1000 FT)	48"	48"	ROAD CLOSED 1000 FT				2	ORANGE REFL. M9.30.0 TY III					16.00 EA =32.00
W20-3a (500 FT)	48"	48"	ROAD CLOSED 500 FT				2						16.00 EA =32.00
SP-2	6.5'	1.0'	OLD SPRINGFIELD RD.	6"	3.00 3.00	-	1	WHITE REFL. M9.30.0 TY III					6.50
H1-3R	12"	48"		SEE MHD 1996 STANDARD DWGS			2	SEE MHD 1996 STANDARD DWGS			INCLUDED WITH PANEL		EACH

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	19	30
PROJECT FILE NO.	608869		

UTILITY PLAN

608869_UT(UTIL-PLAN).DWG Plotted on 7-Apr-2022 10:02 AM



NOTES:

1. THIS UTILITY SHEET HAS BEEN PREPARED FOR 25% DESIGN AND FOR UTILITY RELOCATION PLANNING PURPOSES ONLY. ADDITIONAL DETAILED INFORMATION WILL BE AVAILABLE AT A LATER SUBMISSION ONCE POLE AND OVERHEAD RELOCATIONS ARE DETERMINED WITH INPUT FROM MASSDOT D2 DUCE AND FROM THE UTILITY COMPANIES.
2. POLE SET IS NATIONAL GRID WITH THE 3 TOP WIRES BEING NATIONAL GRID OVERHEAD POWER AT THE TOP OF THE POLES.
3. VERIZON TELECOM JOINTLY OWNS THE POLES WITH NGRID ELECTRIC AND HAS A SINGLE OVERHEAD WIRE WHICH IS THE LOWER WIRE.

THE OXBOW

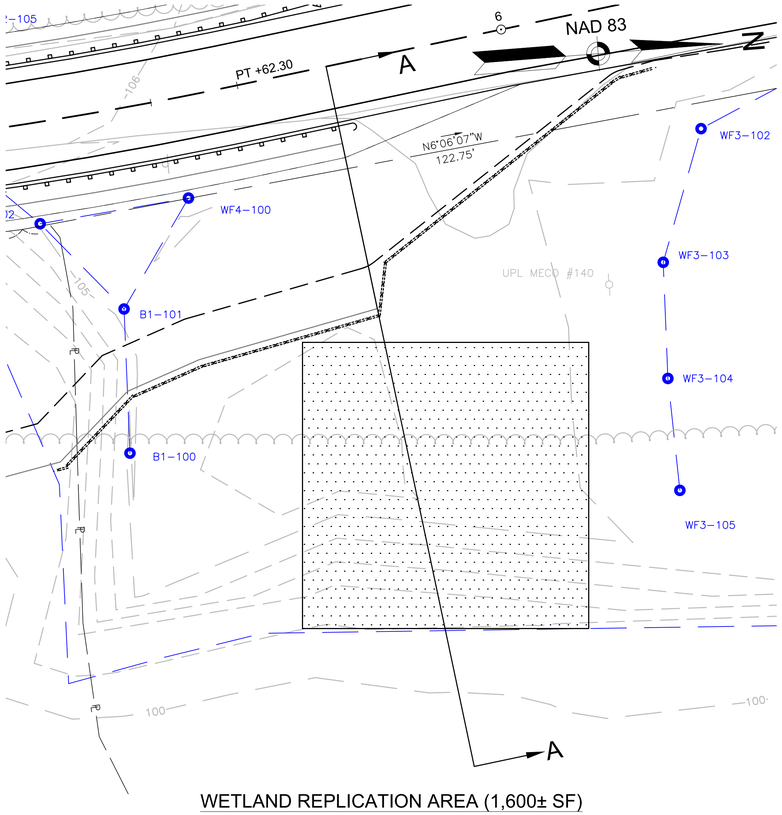
PLAN

0 20 50 100
SCALE: 1" = 20'

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

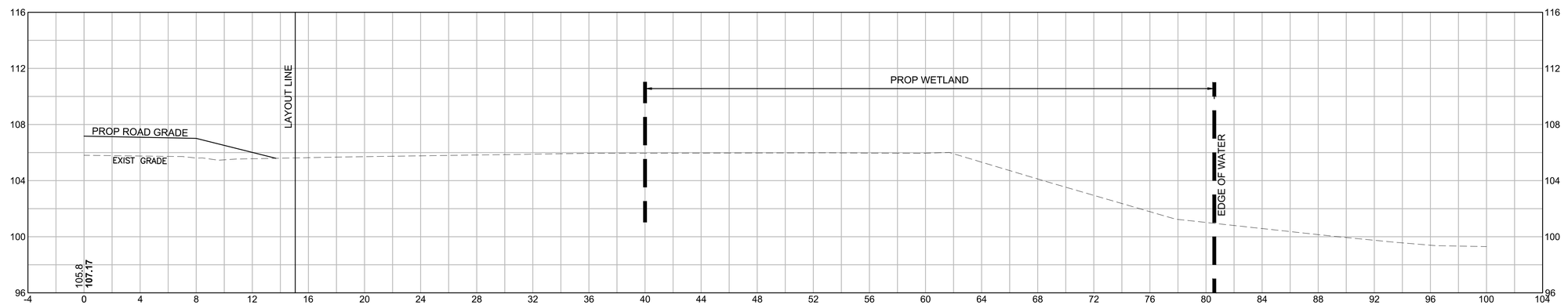
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	20	30
PROJECT FILE NO.	608869		

WETLAND PLAN

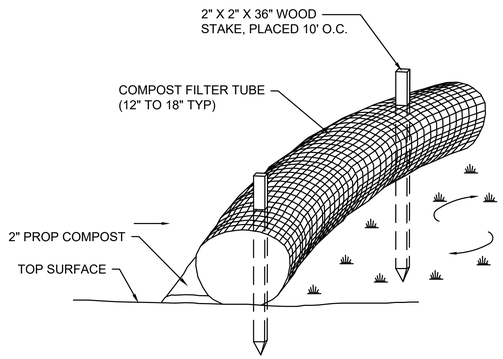


WETLAND REPLICATION AREA (1,600± SF)
STA: 5+38 TO 6+00
SCALE: 1" = 10'

5+75

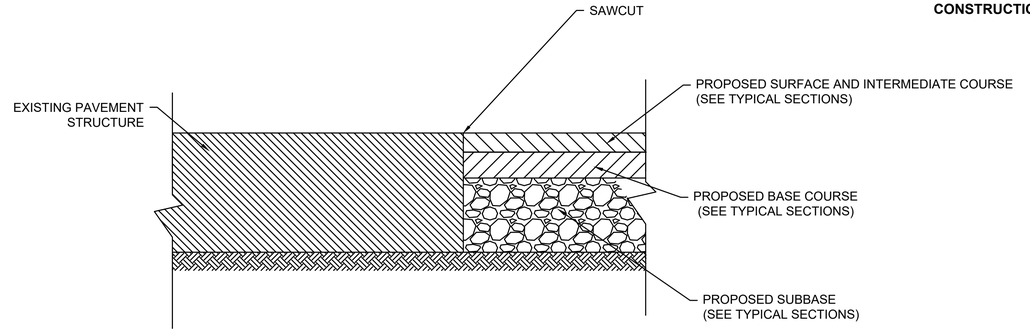


SECTION A-A
SCALE: 1" = 4'

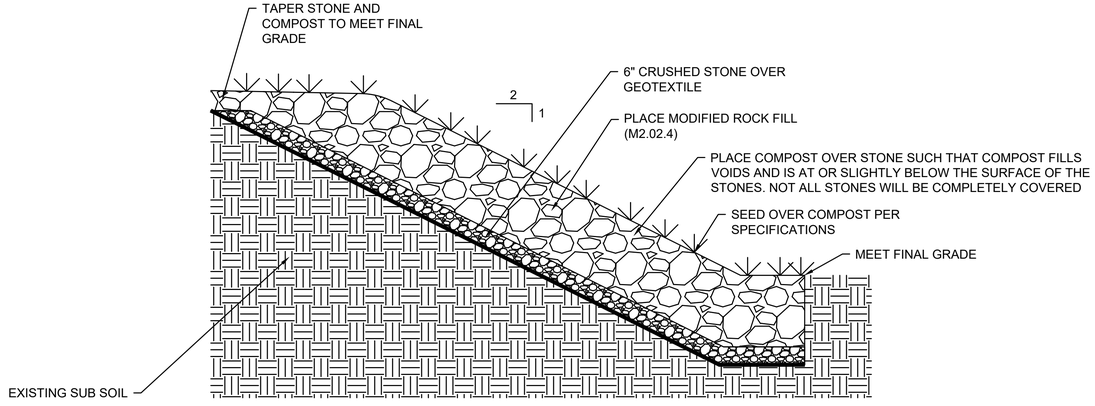


1. FILTER TUBE SHALL BE FILLED BY BLOWN IN ORGANIC COMPOST AND PLACED AS ILLUSTRATED ON THE PROJECT PLANS.
2. COMPOST FILTER TUBES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIRED OR REPLACED AS NEEDED.
3. AT COMPLETION OF PROJECT, COMPOST FILTER TUBES SHALL BE CUT OPEN AND COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
4. THE EMPTY FILTER TUBE FABRIC SHALL BE COLLECTED AND DISPOSED OF PROPERLY.

COMPOST FILTER TUBE
SCALE: NTS



PAVEMENT JOINT DETAILS
SCALE: NTS



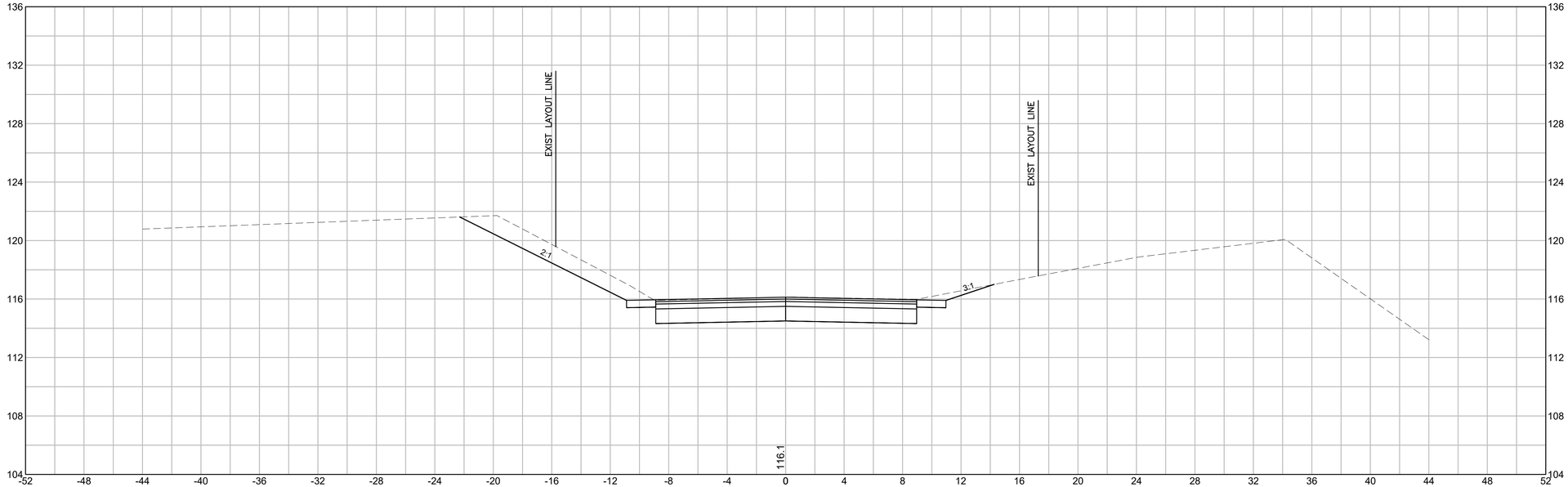
MODIFIED ROCK SLOPE DETAILS
SCALE: NTS

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

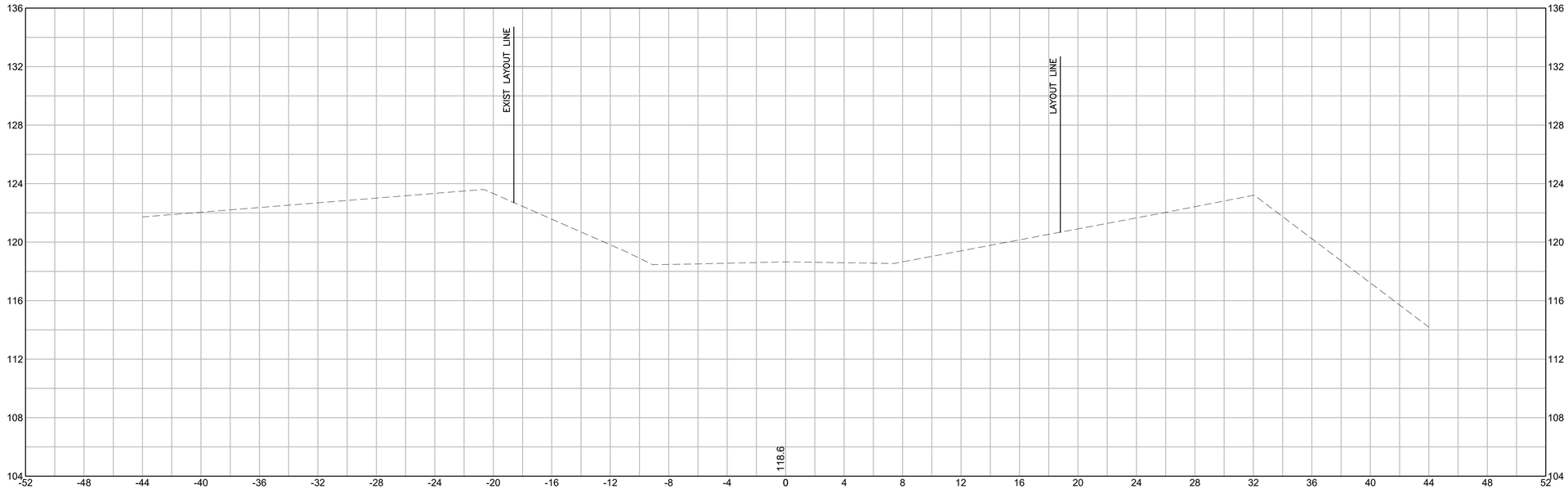
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	22	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 1 OF 9

0+50



0+00



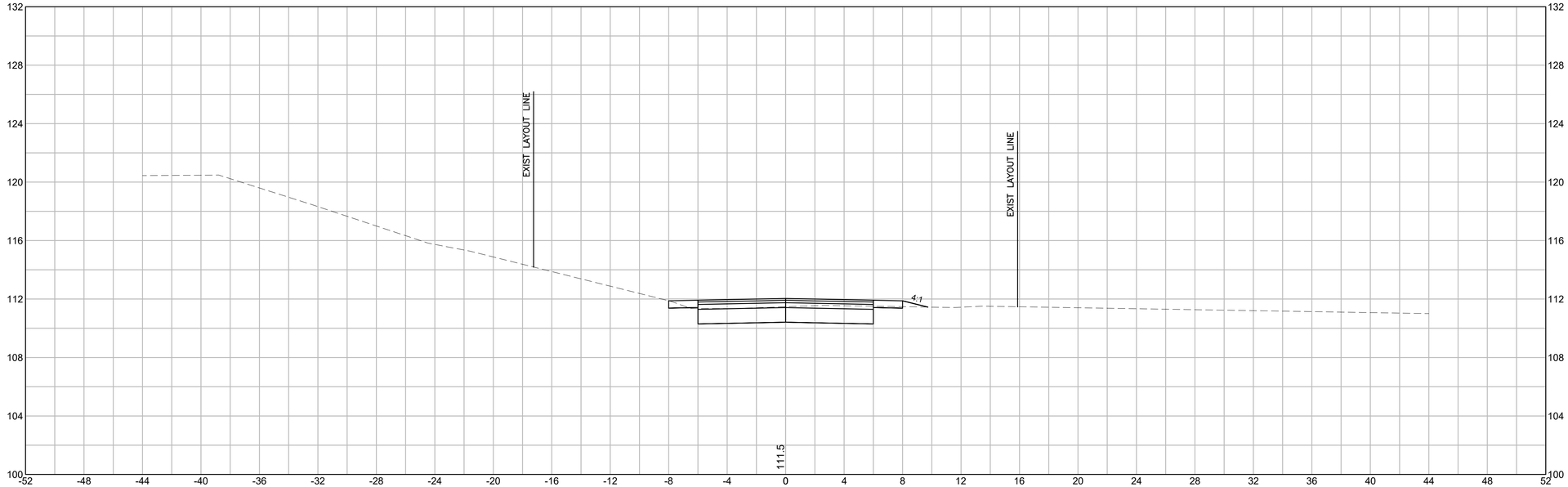
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

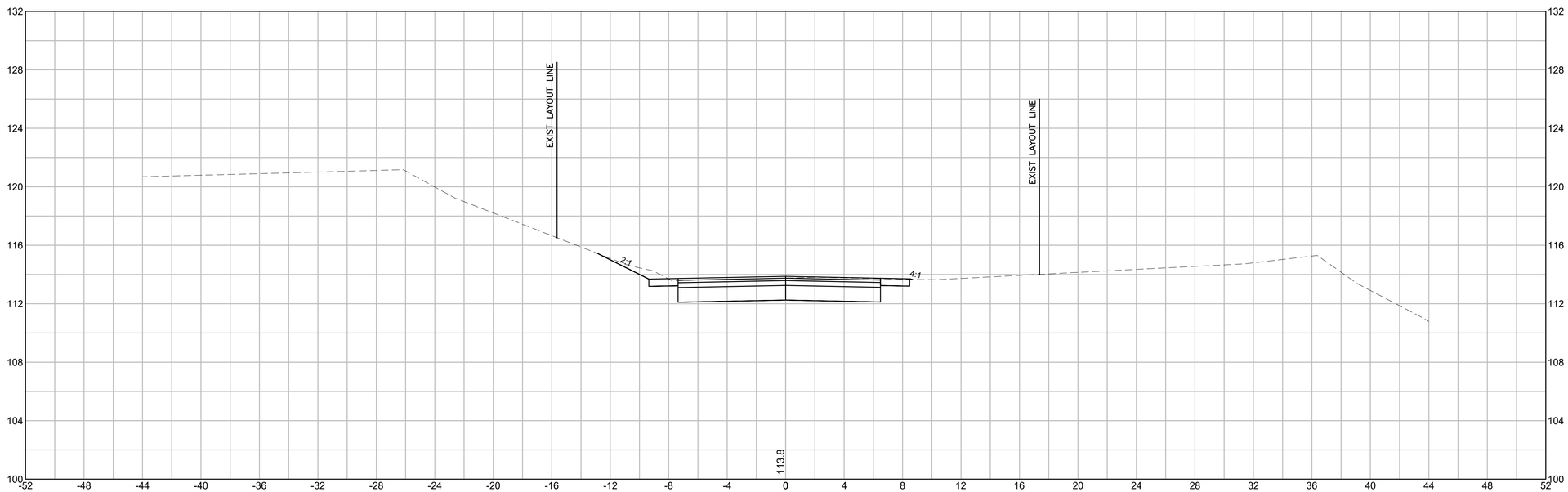
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	23	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 2 OF 9

1+50



1+00



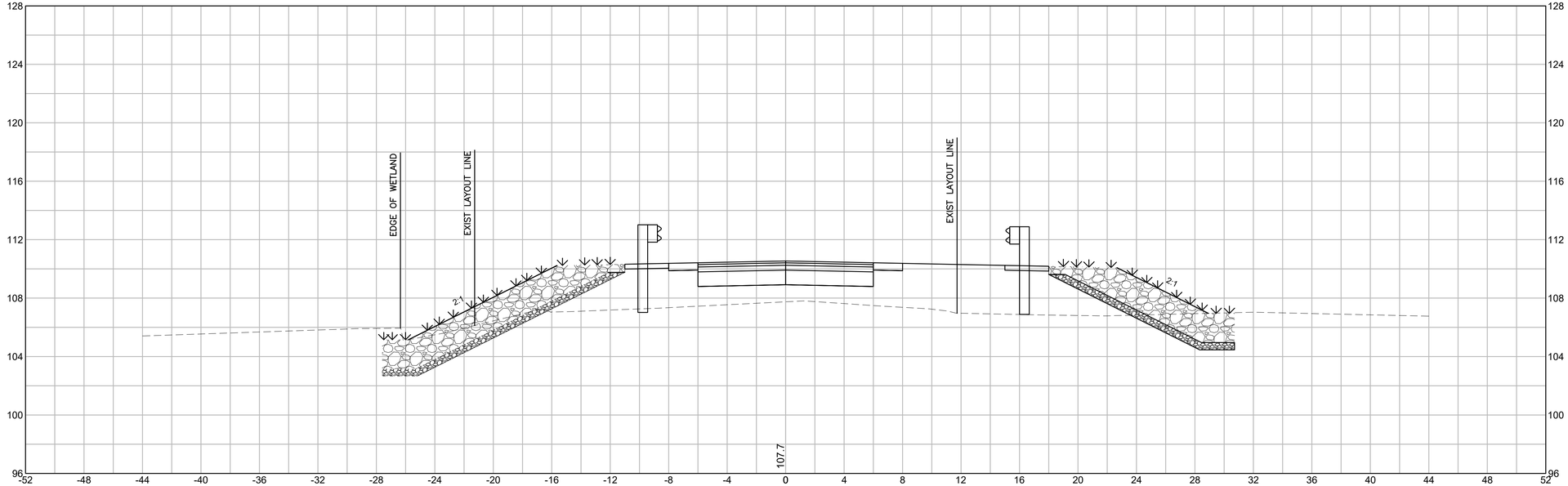
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

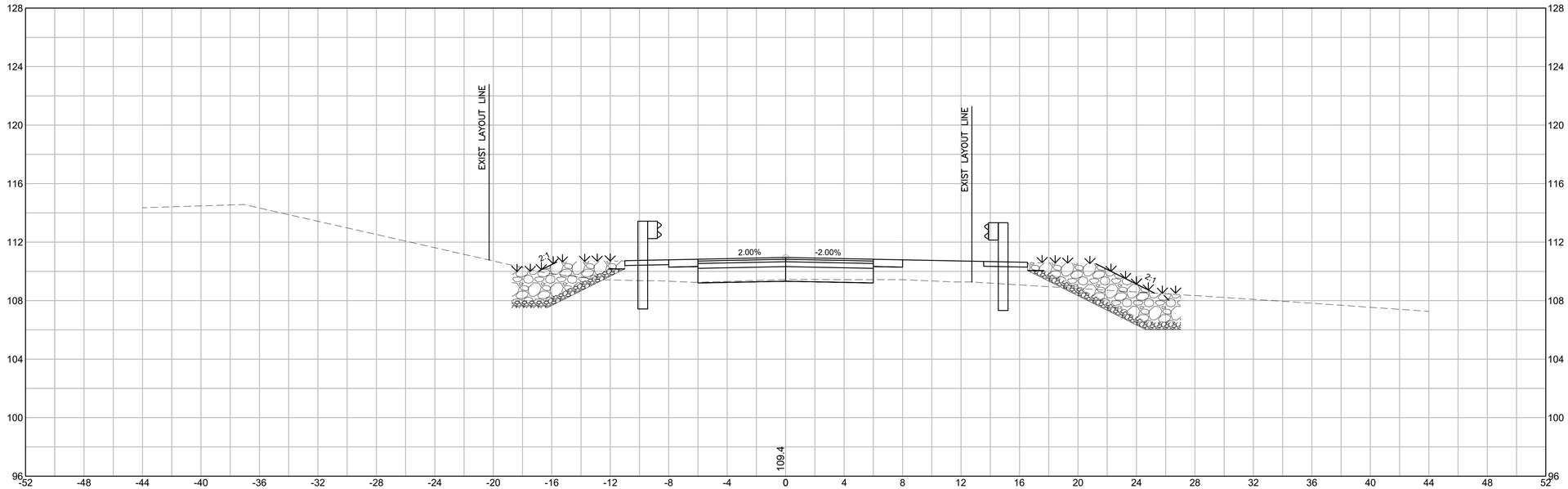
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	24	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 3 OF 9

2+50



2+00



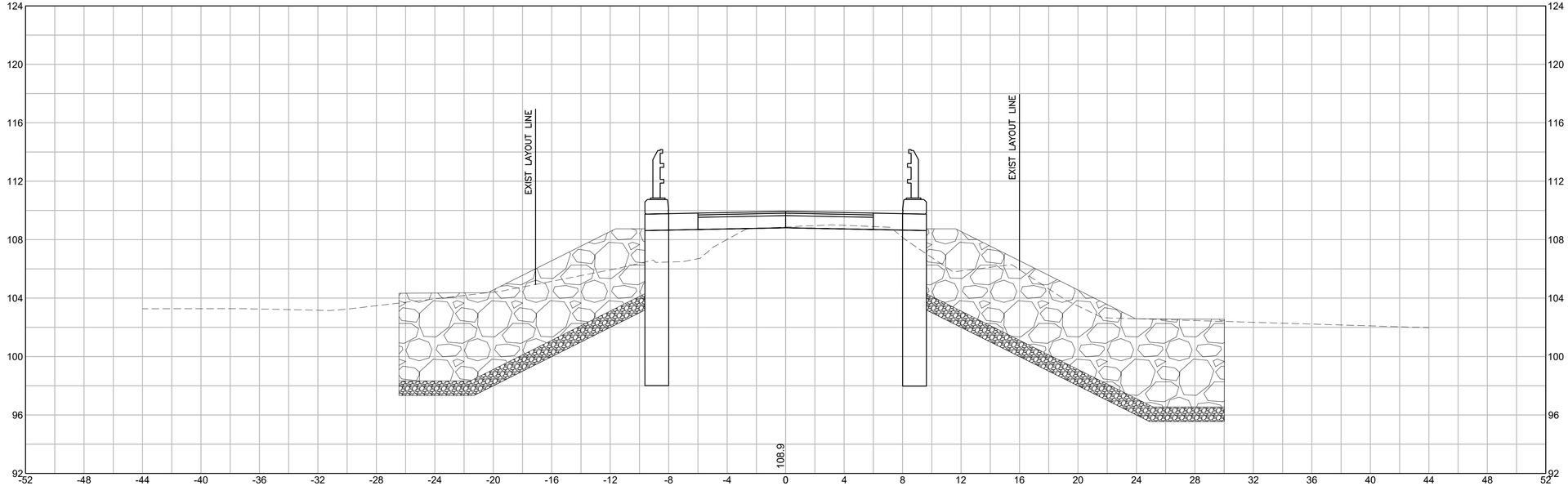
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

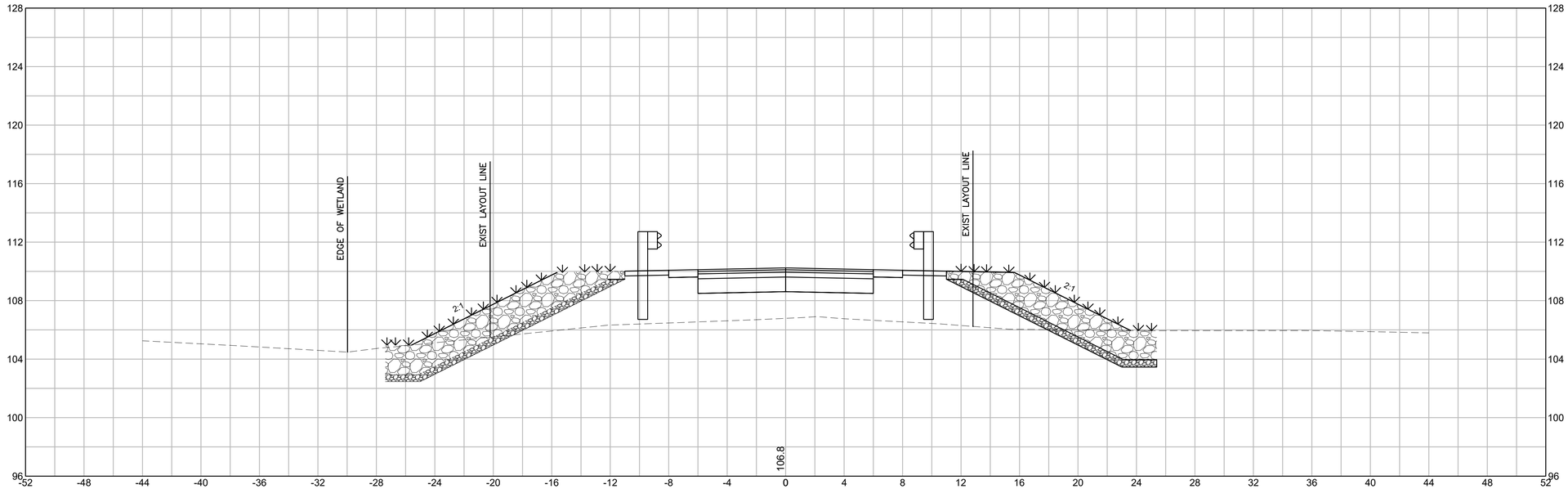
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	25	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 4 OF 9

3+50



3+00

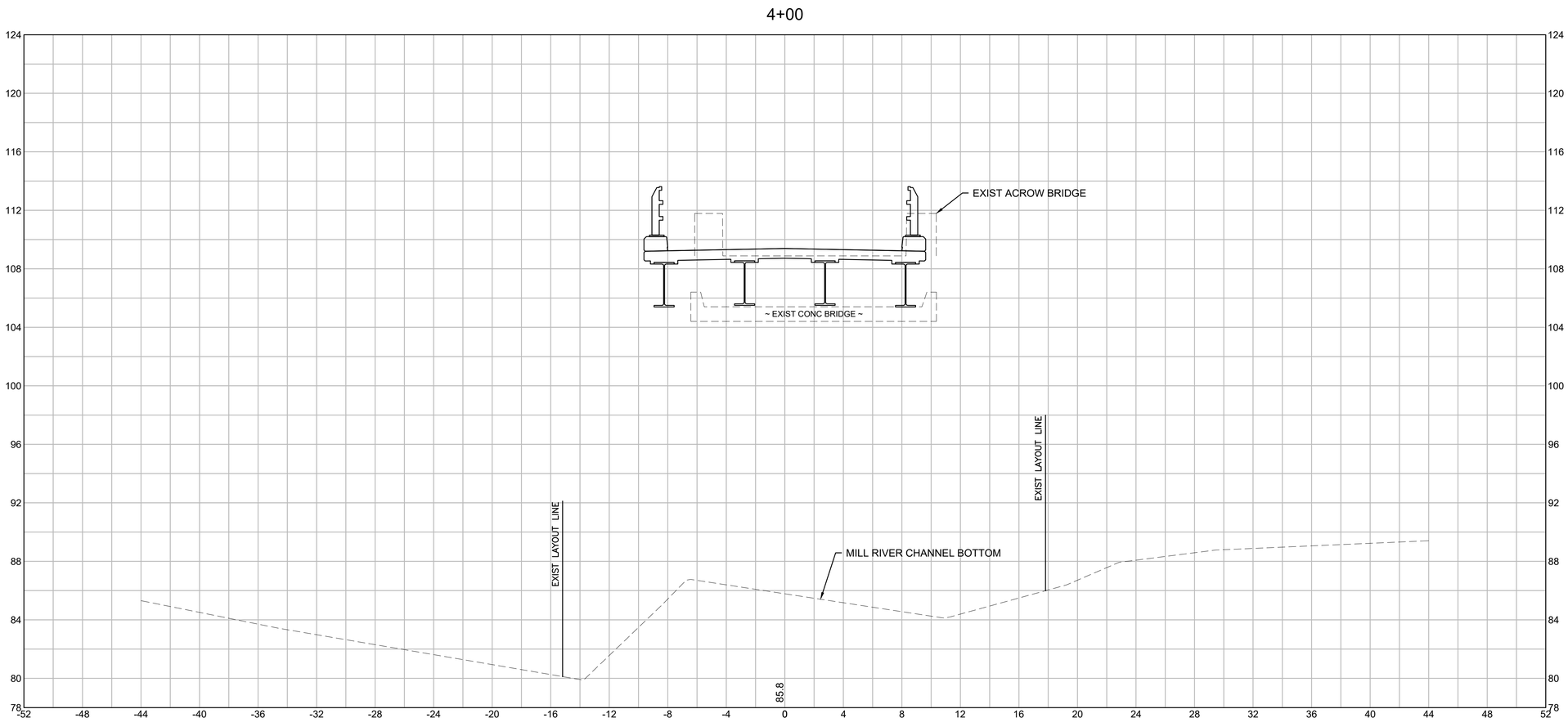


HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	26	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 5 OF 9



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

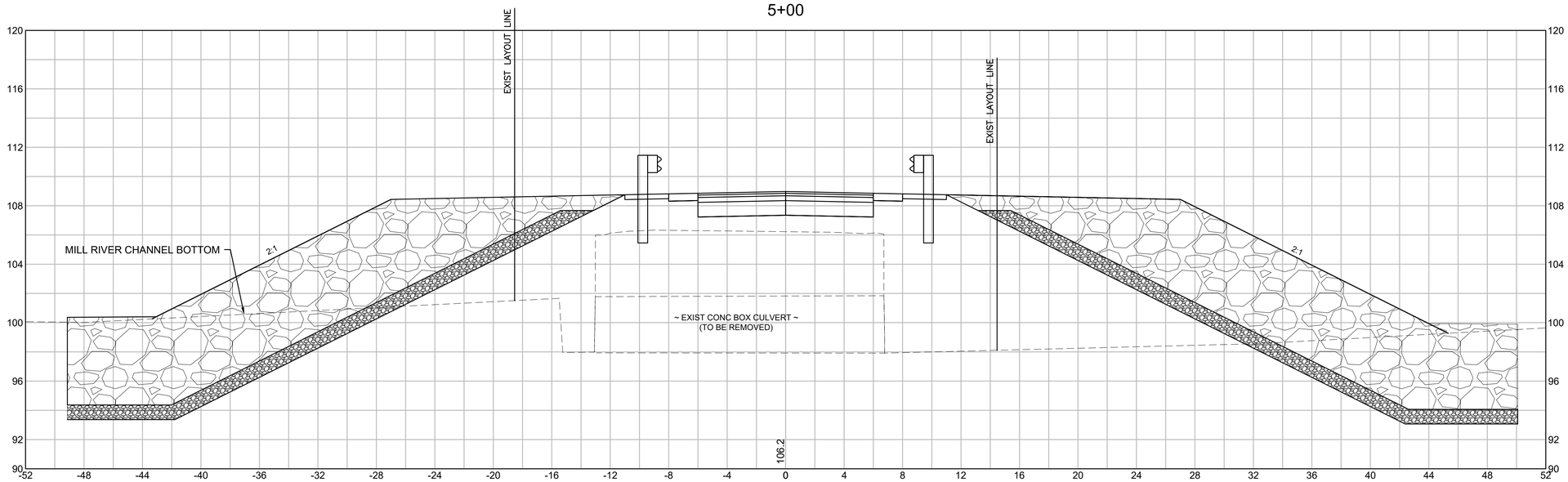
NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	27	30
PROJECT FILE NO.	608869		

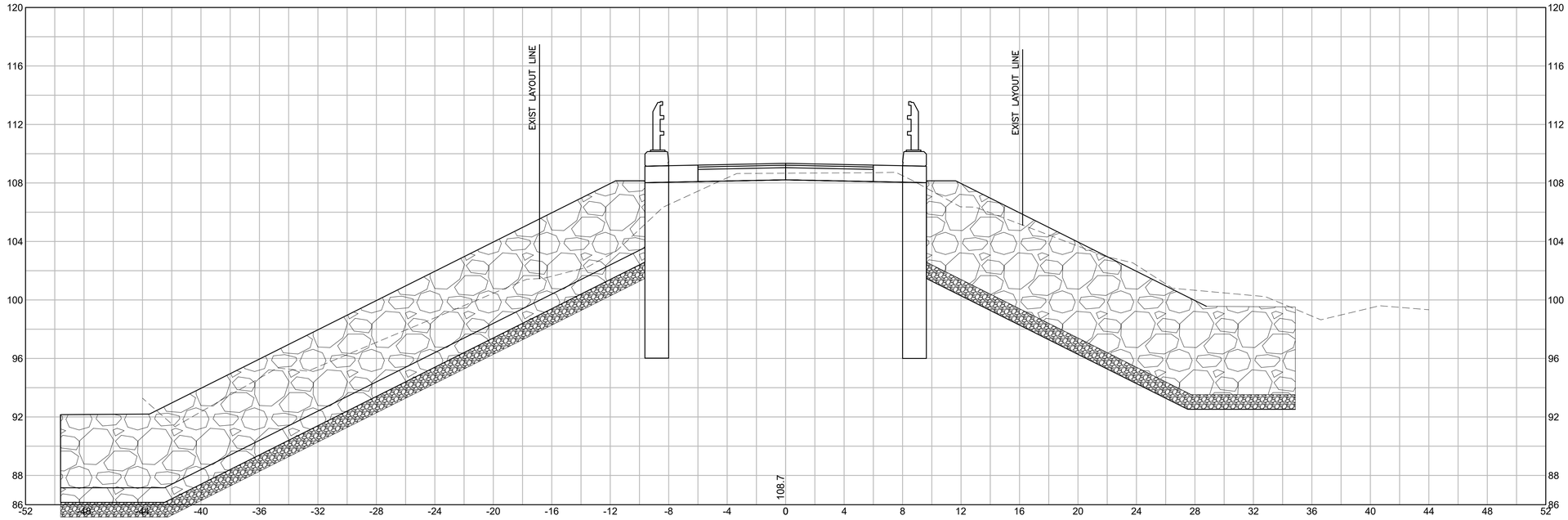
CROSS SECTIONS
SHEET 6 OF 9

608869_HD\SECTIONS\.DWG Plotted on 7-Apr-2022 9:44 AM

5+00



4+50



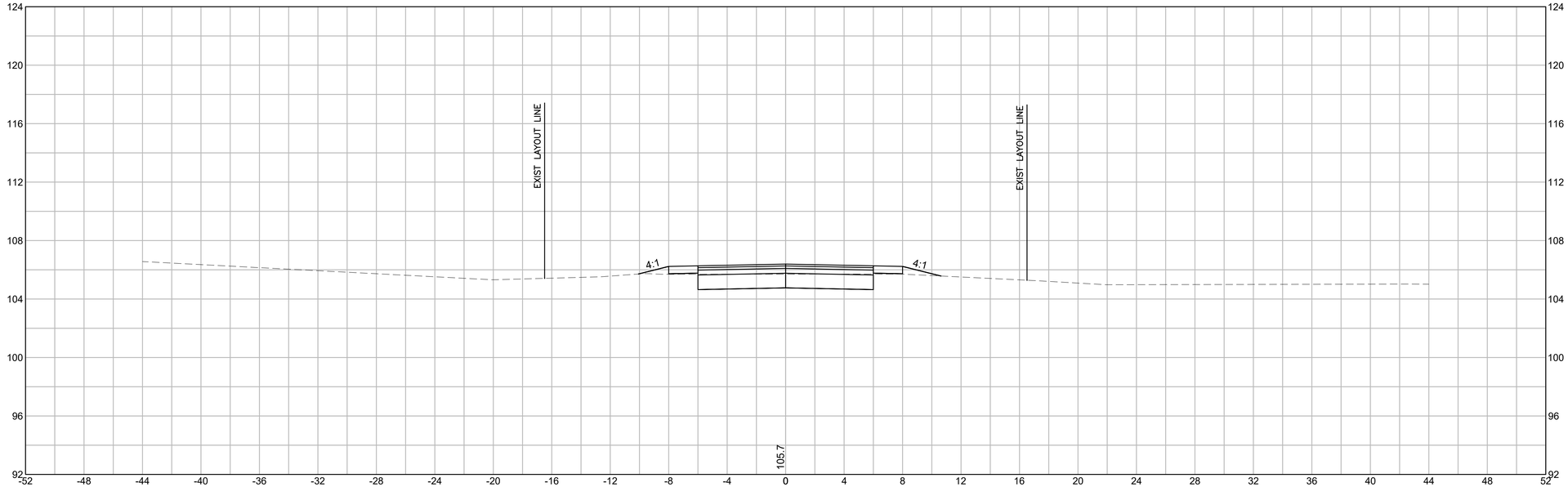
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

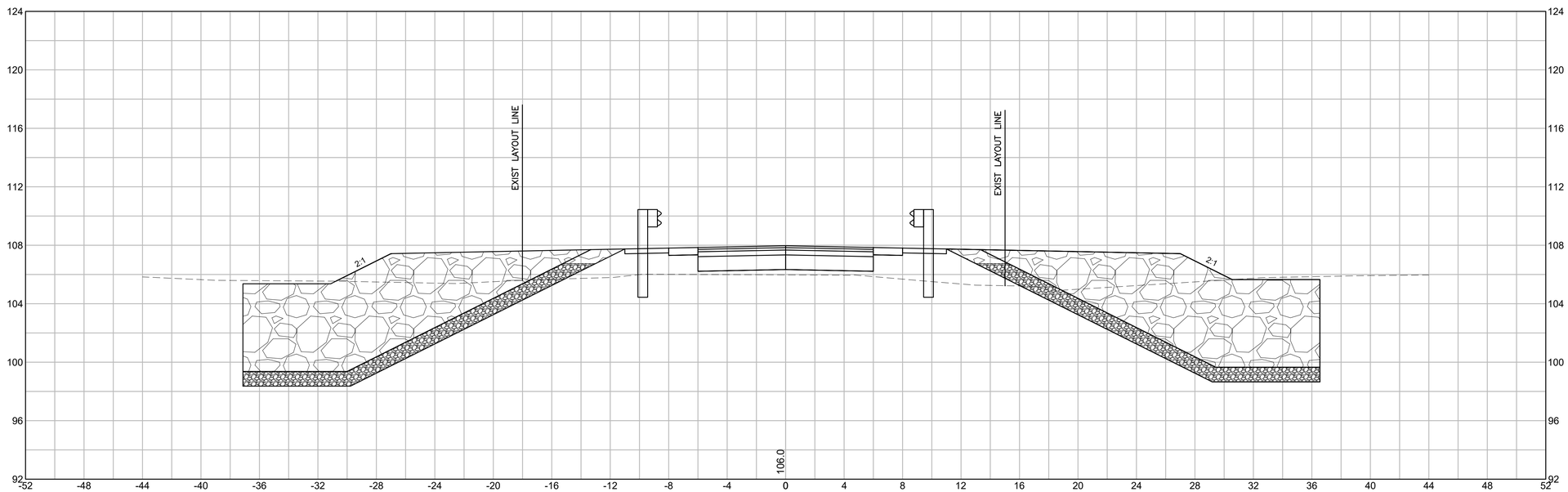
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	28	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 7 OF 9

6+00



5+50



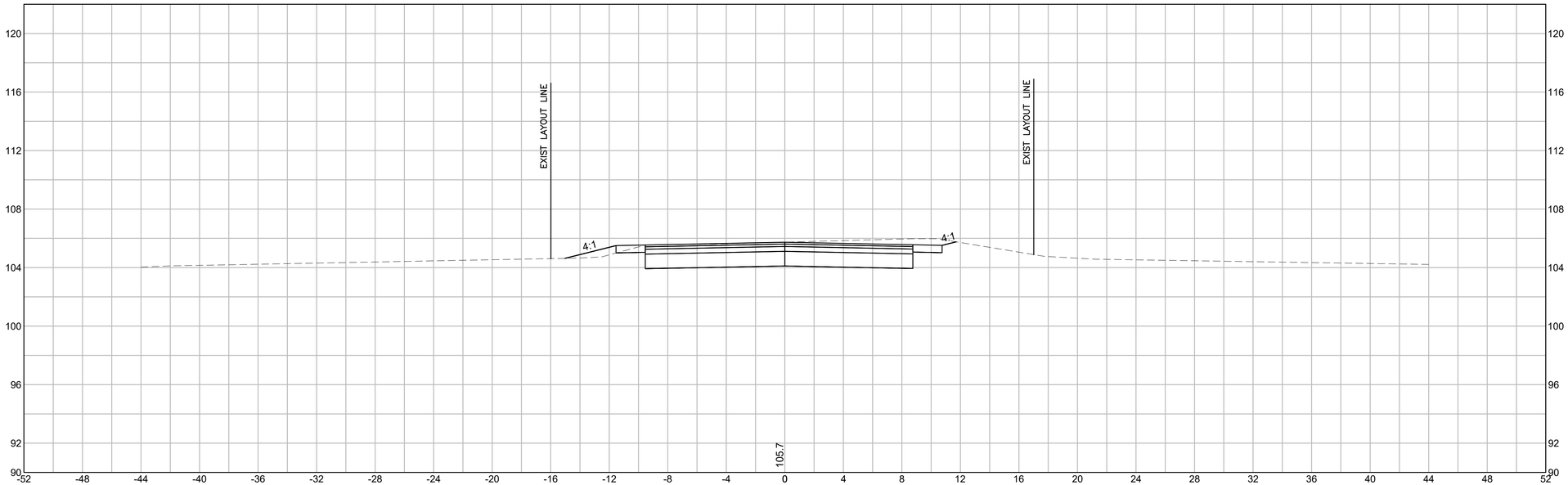
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

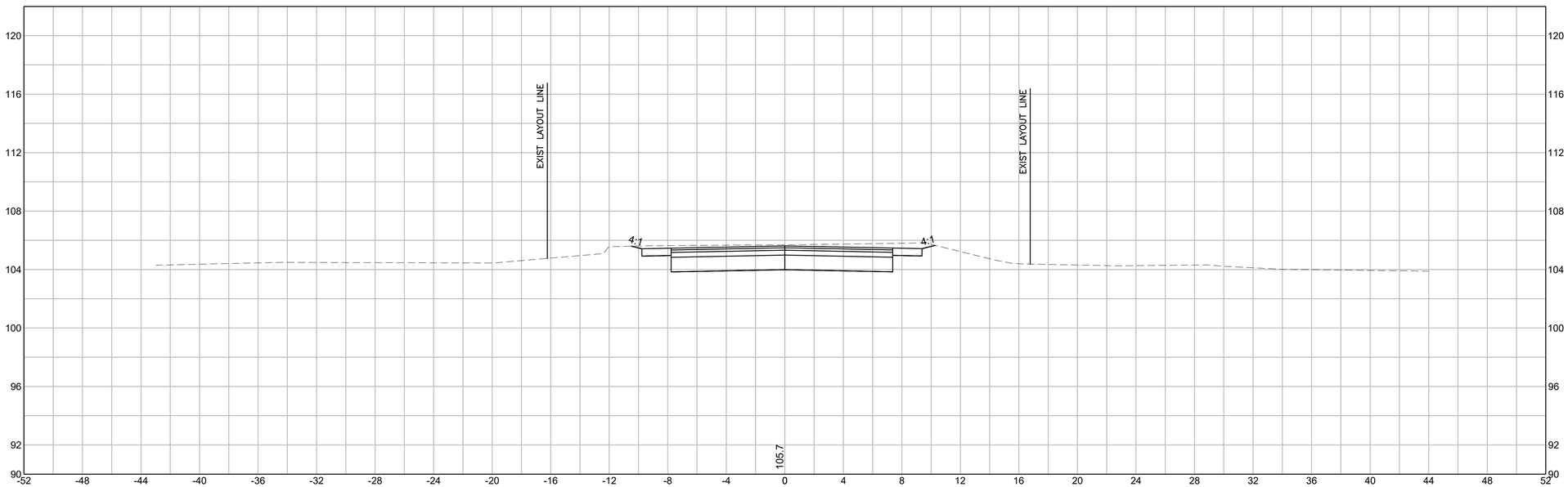
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	29	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 8 OF 9

7+00



6+50



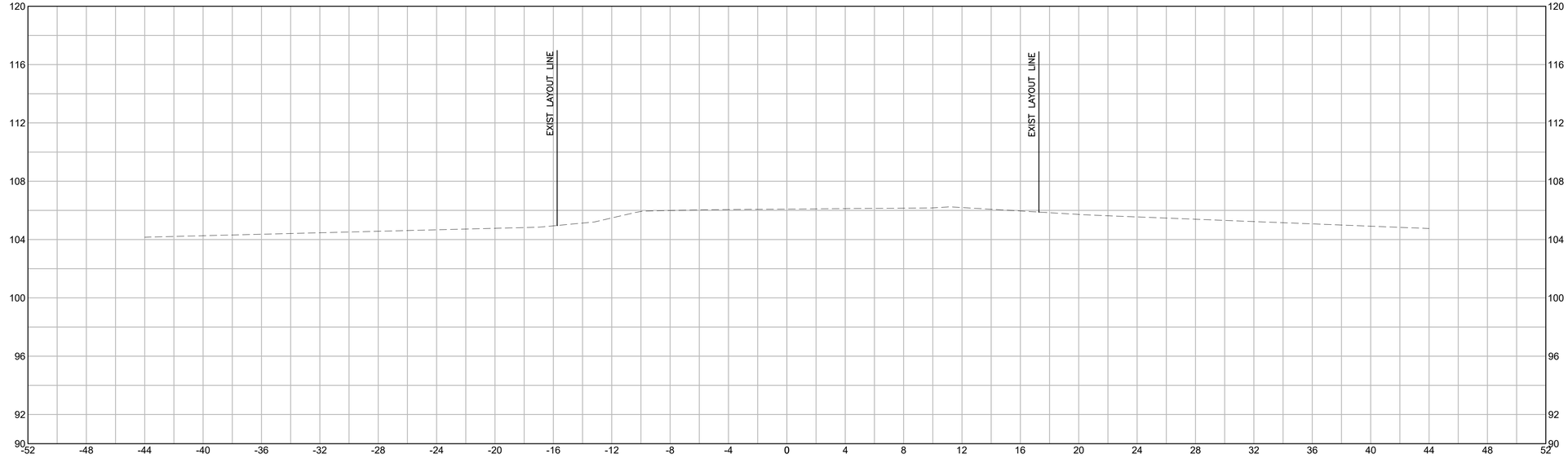
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

NORTHAMPTON
OLD SPRINGFIELD ROAD OVER MILL RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX (XXX)	30	30
PROJECT FILE NO.	608869		

CROSS SECTIONS
SHEET 9 OF 9

7+50



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