MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF

LONGMEADOW STREET (U.S. ROUTE 5) & CONVERSE STREET

IN THE TOWN/CITY OF

LONGMEADOW - SPRINGFIELD

HAMPDEN COUNTY

FEDERAL AID PROJECT NO. STP-0032(045)X

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	1	198
	PROJECT FILE NO.	608881	

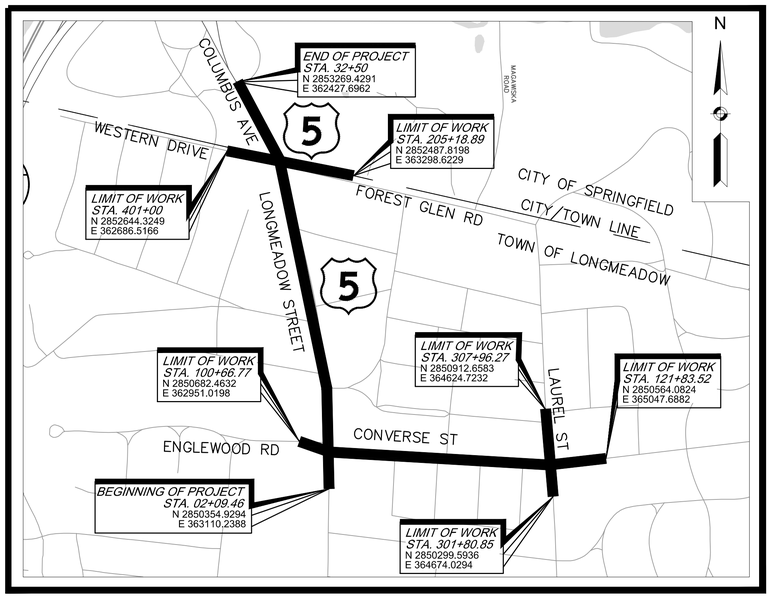
TITLE SHEET & INDEX

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THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS IDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

INDEX

SHEET NO.		DESCRIPTION
1	.....	TITLE SHEET & INDEX
2	.....	LEGEND & GENERAL NOTES
3	.....	KEY PLAN & BORING LOCATIONS
4-6	.....	BORING LOGS
7-12	.....	TYPICAL SECTIONS
13-25	.....	CONSTRUCTION PLANS
26-28	.....	PROFILE - LONGMEADOW STREET/COLUMBUS AVENUE (U.S. ROUTE 5)
29	.....	PROFILE - FOREST GLEN ROAD
30-31	.....	PROFILE - CONVERSE STREET/ENGLEWOOD RD
32	.....	PROFILE - LAUREL STREET
33-39	.....	CURB & BASELINE TIE PLANS
40-46	.....	GRADING PLANS
47-53	.....	PAVEMENT MARKING & SIGNING PLANS
54-55	.....	TRAFFIC SIGN SUMMARY
56-61	.....	TRAFFIC SIGNAL PLANS
62-67	.....	TEMPORARY TRAFFIC CONTROL PLANS
68-79	.....	DRAINAGE & UTILITY PLANS
80-81	.....	CONSTRUCTION DETAILS
82-86	.....	PEDESTRIAN CURB RAMP/DRIVEWAY DETAILS
87-198	.....	CROSS SECTIONS



LENGTH OF LONGMEADOW STREET = 3190.54 FEET = 0.604 MILES
LENGTH OF CONVERSE STREET = 2116.75 FEET = 0.401 MILES

DESIGN DESIGNATION (COLUMBUS AVE & LONGMEADOW ST (U.S. ROUTE 5))

DESIGN SPEED	35 MPH
ADT (2017)	17,501 VPD
ADT (2037)	21,374 VPD
K	8.8%
D	66% SB
T (PEAK HOUR)	3.6%
T (AVERAGE DAY)	2.3%
DHV	1,874 VPH
DDHV	1,228 VPH
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL

DESIGN DESIGNATION (CONVERSE ST)

DESIGN SPEED	30 MPH
ADT (2017)	10,114 VPD
ADT (2037)	12,352 VPD
K	8.5%
D	67% EB
T (PEAK HOUR)	3.4%
T (AVERAGE DAY)	2.6%
DHV	1,053 VPH
DDHV	709 VPH
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL

COMMONWEALTH OF MASSACHUSETTS
DANIEL F. DELANY
CIVIL
NO. 45477
REGISTERED PROFESSIONAL ENGINEER

Dan Delany Digitally signed by Dan Delany Date: 2025.03.27 16:23:48 -04'00'

DATE	DESCRIPTION	REV #

massDOT
Massachusetts Department of Transportation
Highway Division

APPROVED

Carrie Lavallee, P.E. — Carrie Lavallee, P.E. 2025.04.03 09:44:52 -04'00' — 04/03/2025

CHIEF ENGINEER — **DATE**

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

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
C	C	CABLE MANHOLE
D	D	DRAINAGE MANHOLE
E	E	ELECTRIC MANHOLE
G	G	GAS MANHOLE
M	M	MISC MANHOLE
S	S	SEWER MANHOLE
T	T	TELEPHONE MANHOLE
W	W	WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
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
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	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	12" STOP LINE
	CW	24" CROSSWALK
	SWL	6" SOLID WHITE LINE
	SYL	6" SOLID YELLOW LINE
	BWL	6" BROKEN WHITE LINE (10' MARK - 30' SKIP)
	BYL	6" BROKEN YELLOW LINE (10' MARK - 30' SKIP)
	DWL	6" DOTTED WHITE LINE (3' MARK - 9' GAP)
	DYL	6" DOTTED YELLOW LINE (3' MARK - 9' GAP)
	DWLEx	6" DOTTED WHITE LINE EXTENSION (2' MARK - 6' GAP)
	DYLEx	6" DOTTED YELLOW LINE EXTENSION (2' MARK - 6' GAP)
	DBWL	6" DOUBLE WHITE LINE
	DBYL	6" DOUBLE YELLOW LINE

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

TRAFFIC SIGNAL ABBREVIATIONS (cont.)

R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	RR
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

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
PCR	PEDESTRIAN CURB RAMP
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

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	2	198
PROJECT FILE NO.	608881		

LEGEND & GENERAL NOTES

GENERAL NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
2. VERIZON UNDERGROUND TELEPHONE: THE PROPOSED UNDERGROUND TELEPHONE RELOCATIONS AS SHOWN ASSUMES INSUFFICIENT COVER DUE TO PROPOSED ROADWAY WORK. ACTUAL LIMITS OF PROPOSED UNDERGROUND TELEPHONE RELOCATIONS WILL BE DETERMINED IN THE FIELD BY TEST PITS. IF COVER CAN NOT BE ACHIEVED VERIZON PREFERS TO LOWER THE LINES IN PLACE.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO TOWN SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
4. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
5. THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
6. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT, TOWN LAYOUT, AND MassDOT LAYOUT.
7. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
8. RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE BY THE CONTRACTOR.
9. STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC UNLESS APPROVED OTHERWISE BY THE MassDOT AND THE TOWN. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE ENGINEER) TO PROTECT STOCK PILES/WORK STAGING AREAS. IF THIS WORK IS SO ORDERED THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR.
10. HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE MassDOT RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
11. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL.
12. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL BE SURROUNDED BY EROSION CONTROL MEASURES DURING CONSTRUCTION.
13. THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
14. EXISTING SURVEY INFORMATION WAS PROVIDED BY DESIGN PROFESSIONALS INC, IN DECEMBER 2018 AND MARCH 2019. SUPPLEMENTAL FIELD SURVEY WAS CONDUCTED BY SHERMAN & FRYDRYK ON FEBRUARY, MARCH & APRIL 2021, AND JANUARY 2023.

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

ABBREVIATIONS (cont.)

TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	3	198
PROJECT FILE NO.	608881		

KEY PLAN & BORING LOCATIONS

20170404A10_KEY01.DWG Plotted on 23-Jun-2025 5:05 PM

BEGINNING OF PROJECT
STA . 2+09.46
N 2850354.9294
E 363110.2388

LIMIT OF WORK
STA 100+66.77
N2850682.4632
E362951.0198

END OF PROJECT
STA. 32+50.00
N 2853269.4291
E 362427.6962

LIMIT OF WORK
STA 301+80.85
N2850299.5936
E364674.0294

LIMIT OF WORK
STA 121+83.52
N2850564.0824
E365047.6882

LIMIT OF WORK
STA 307+96.27
N2850912.6583
E364624.7232

LIMIT OF WORK
STA 205+18.89
N2852487.8198
E363298.6229

LIMIT OF WORK
STA 401+00.00
N2852644.3249
E362686.5166

NAD 83

N

SCALE IN FEET
150 0 150 300

NOTE:

1. LOCATION OF BORINGS SHOWN ON THE PLAN THUS:
   ⊕ B-# = BORING LOCATION AND NUMBER
2. BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. FIGURES IN THE "BLOWS" COLUMN INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 2" O.D. SAMPLER 6" USING A 140 POUND AUTOMATIC HAMMER FALLING 30".
4. BORINGS WERE PERFORMED BY SEABOARD DRILLING, INC. LOCATED AT 649 MEADOW STREET, CHICOPEE, MA 01013 BETWEEN APRIL 8 AND APRIL 10, 2019.

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-1
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/10/2019
Finish: 4/10/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	1-2-2-4	S-1	22"	1-2, TopSoil Brown/Tan Fine Sand. Trace of Silt
5-7	2-2-2-3	S-2	16"	5-7, Tan Fine Sand. Trace of Silt.
10-12	2-3-4-4	S-3	19"	10-12, Tan Fine Sand. Trace of Silt.
15-17	3-3-4-5	S-4	17"	15-17, Fine/Medium Tan/Gray Sand. Little Silt. Wet.
20-22	1-2-2-4	S-5	17"	20-22, Gray Fine Sand. Little Silt.
25-27	2-3-4-4	S-6	21"	25-27, Gray Fine Sand. Little Silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-2
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/10/2019
Finish: 4/10/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-3-3-2	S-1	20"	1-2, Top Soil. Tan/Brown Fine to Medium Sand. Trace of Silt.
5-7	1-2-2-2	S-2	18"	5-7, Tan/Brown Fine to Medium Sand. Trace of Silt.
10-12	2-3-4-3	S-3	14"	10-12, Tan/Brown Fine to Medium Sand. Trace of Silt.
15-17	2-3-3-2	S-4	20"	15-17, Tan/Brown Fine to Medium Sand. Trace of Silt.
20-22	2-3-3-3	S-5	17"	20-22, Tan/Brown Fine to Medium Sand. Trace of Silt.
25-27	2-3-3-4	S-6	18"	25-27, Tan/Gray Fine Sand. Little Silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-3
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/8/2019
Finish: 4/8/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-2-2-4	S-1	21"	1-2, Top Soil. Fine to Medium Sand. Trace of Silt.
5-7	5-5-5-7	S-2	0	5-7, No Recovery. Rock in Tip.
10-12	3-3-4-4	S-3	15"	10-12, Fine to Medium Tan Sand. Trace of Silt. Moist at 11.5'
15-17	3-3-4-5	S-4	22"	15-17, Fine Tan Sand. Trace of Silt. Wet.
20-22	3-3-4-5	S-5	22"	20-22, Fine Tan Sand. Trace of Silt. Wet.
25-27	2-3-3-4	S-6	17"	25-27, Fine Tan Sand. Trace of Silt. Wet. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-4
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/10/2019
Finish: 4/10/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-2-2-3	S-1	17"	1-2, Top Soil. Medium to Fine Tan Sand. Trace of Silt.
5-7	2-3-3-4	S-2	16"	5-7, Fine to Medium Tan Sand. Trace of Silt.
10-12	2-2-3-4	S-3	18"	10-12, Fine to Medium Tan Sand. Trace of Silt.
15-17	2-2-2-2	S-4	21"	15-17, Brown Fine to Medium Sand. Trace of Silt. Wet.
20-22	1-2-3-3	S-5	24"	20-22, Brown Fine Sand. Gray Fine Sand. Little Silt.
25-27	2-3-4-3	S-6	23"	25-27, Fine Gray Sand. Little Silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	4	198
PROJECT FILE NO.	608881		

BORING LOGS

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BORING NOTES:

SEE SHEET 4 FOR TYPICAL BORING NOTES

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-5
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/9/2019
Finish: 4/9/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-3-3-3	S-1	20"	1-2, Topsoil Fine to Medium Tan Sand.
5-7	3-4-4-5	S-2	17"	5-7, Fine to Medium Brown Sand. Trace of Silt.
10-12	2-4-4-5	S-3	19"	10-12, Fine to Medium Brown Sand. Trace of Silt.
15-17	3-4-4-5	S-4	20"	15-17, Fine to Medium Tan Sand. Trace of Silt.
20-22	3-4-5-6	S-5	18"	20-22, Brown Fine to Medium Sand. Trace of Silt. Wet.
25-27	4-5-5-6	S-6	18"	25-27, Brown Fine to Medium Sand. Trace of Silt. Wet. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-8
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/9/2019
Finish: 4/9/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	1-2-2-2	S-1	22"	1-2, Top Soil. Orange Tan Fine to Medium Sand. Trace of Silt.
5-7	3-3-4-4	S-2	12"	5-7, Fine to Medium Tan Sand. Trace of Silt.
10-12	3-4-4-5	S-3	20"	10-12, Fine to Medium Tan Sand. Trace of Silt.
15-17	3-3-4-6	S-4	20"	15-17, Fine to Medium Tan Sand. Trace of Silt.
20-22	3-4-4-6	S-5	19"	20-22, Brown Fine to Medium Sand. Trace of Silt. Wet.
25-27	4-3-4-5	S-6	18"	25-27, Brown Fine to Medium Sand. Trace of Silt. Wet. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-7
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/9/2019
Finish: 4/9/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-4-19-11	S-1	20"	1-2, Topsoil. Fine to Medium Tan Sand. Brown Medium Sand with Gravel. Trace of Silt.
5-7	3-3-4-3	S-2	18"	5-7, Fine Tan Sand. Trace of Silt.
10-12	3-3-4-5	S-3	20"	10-12, Fine Tan Sand. Trace of Silt.
15-17	6-5-5-4	S-4	12"	15-17, Fine Tan Sand. Trace of Silt.
20-22	3-3-4-4	S-5	17"	20-22, Brown Fine Sand. Trace of silt. Wet.
25-27	4-3-3-4	S-6	18"	25-27, Brown Fine Sand. Trace of silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-9
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/9/2019
Finish: 4/9/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-2-2-2	S-1	22"	1-2, Topsoil, Fine to Medium Tan Sand. Trace of Silt.
5-7	2-2-3-3	S-2	20"	5-7, Fine to Medium Tan Sand. Trace of Silt.
10-12	2-2-2-2	S-3	20"	10-12, Fine to Medium Tan Sand. Trace of Silt. Wet.
15-17	2-2-2-2	S-4	20"	15-17 Fine to Medium Tan Sand. Trace of Silt. Wet
20-22	1-1-1-1	S-5	14"	20-22, Fine to Medium Tan Sand. Trace of Silt. Wet.
25-27	2-3-3-4	S-6	10"	25-27, Fine to Medium Tan Sand. Gray Fine Sand. Little Silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	5	198
PROJECT FILE NO.	608881		

BORING LOGS

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BORING NOTES:

SEE SHEET 4 FOR TYPICAL BORING NOTES

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-10
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/8/2019
Finish: 4/8/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	2-3-3-3	S-1	23"	1-2, Topsoil. Orange Tan Fine to Medium Sand. Trace of Silt.
5-7	2-3-3-3	S-2	15"	5-7, Fine to Medium Tan Sand. Trace of Silt.
10-12	2-2-2-2	S-3	19"	10-12, Fine to Medium Tan Grayish Sand. Little Silt. Wet.
15-17	2-2-3-3	S-4	20"	15-17, Fine to Medium Tan Grayish Sand. Little Silt. Wet.
20-22	2-3-3-4	S-5	21"	20-22,Fine to Medium Tan Grayish Sand. Little Silt. Wet.
25-27	2-2-4-4	S-6	20"	25-27, Fine to Medium Tan Grayish Sand. Little Silt. Wet. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-11
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/8/2019
Finish: 4/8/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	4-7-6-7	S-1	18"	1-2, Topsoil. Fine to Medium Tan Sand. Trace of Silt. Trace of Cobble.
5-7	2-3-3-3	S-2	12"	5-7, Fine Tan Sand. Trace of Silt.
10-12	3-3-3-4	S-3	18"	10-12, Fine Brownish Tan Sand. Trace of Silt.
15-17	2-2-3-3	S-4	22"	15-17, Fine Brownish Tan Sand. Trace of Silt.
20-22	2-2-3-4	S-5	14"	20-22, Fine Gray Sand. Trace of Silt.
25-27	2-3-4-3	S-6	15"	25-27, Fine Gray Sand. Little Silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

Client: Fuss & O'Neill
Location: Longmeadow, MA
Project: Longmeadow Mastarms
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Boring/ B-12
Monitor Well ID:
Sheet No. 1 of 1
Start: 4/9/2019
Finish: 4/9/2019
Driller: David Robeau

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30"): 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1-2	8-6-5-5	S-1	16"	1-2, 5" Asphalt. Topsoil, Trace of Gravel. Fine to Medium Tan Sand.
5-7	1-1-2-3	S-2	14"	5-7,Fine to Medium Tan Sand. Trace of Silt.
10-12	1-1-1-1	S-3	21"	10-12, Fine to Medium Tan Sand. Trace of Silt. Wet.
15-17	2-3-4-4	S-4	18"	15-17, Fine to Medium Brown Sand. Little Silt.
20-22	2-4-4-3	S-5	22"	20-22, Fine Brown Sand. Gray Fine Sand with Silt.
25-27	4-5-5-6	S-6	20"	25-27, Gray Fine Sand with Silt. End at 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

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GENERAL PAVEMENT NOTES:

THE GENERAL NOTES BELOW APPLY TO ALL SIDEWALKS AND DRIVEWAYS WITHIN PROJECT LIMITS

PROPOSED CEMENT CONCRETE SIDEWALK

SURFACE: 4" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP

SURFACE: 4" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 OVER
2-1/2" SUPERPAVE INTERMEDIATE COURSE - 12.5

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE DRIVEWAY & SIDEWALK THROUGH DRIVEWAY

SURFACE: 6" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

NOTES: ASPHALT EMULSION FOR TACK COAT AND HMA JOINT ADHESIVE SHALL BE APPLIED PER SECTION 450 OF THE STANDARD SPECIFICATIONS.

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450. FOR REPAIRS OF UNSOUND EXISTING CONCRETE BASE SEE CONCRETE BASE REPAIR DETAIL ON SHEET 81.

HMA FOR MISCELLANEOUS WORK SHALL BE USED FOR ALL TEMPORARY CONSTRUCTION,RAMPS, CURB CUT RAMPS, ETC.

LONGMEADOW ST / COLUMBUS AVE / WOODLAWN PL PAVEMENT NOTES

PROPOSED PAVEMENT MILLING AND OVERLAY

MILLING: 2" PAVEMENT FINE MILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE -12.5 POLYMER OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1 3/4 " SUPERPAVE SURFACE COURSE - 12.5 POLYMER OVER
INTERMEDIATE: 2 1/4 " SUPERPAVE INTERMEDIATE COURSE - 12.5
BASE: 4 " SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4 " DENSE GRADED CRUSHED STONE OVER 8" GRAVEL BORROW, TYPE b.

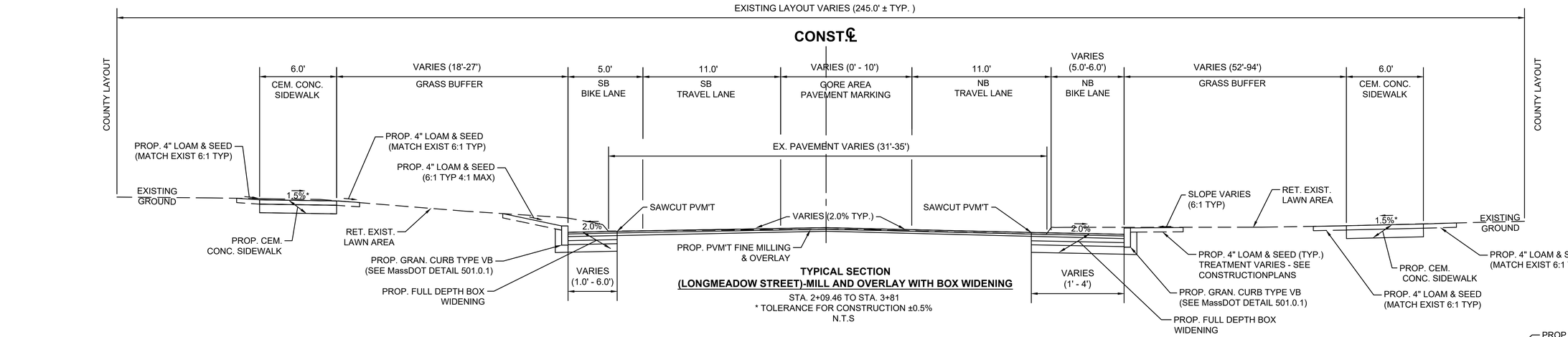
PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 POLYMER OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5
BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

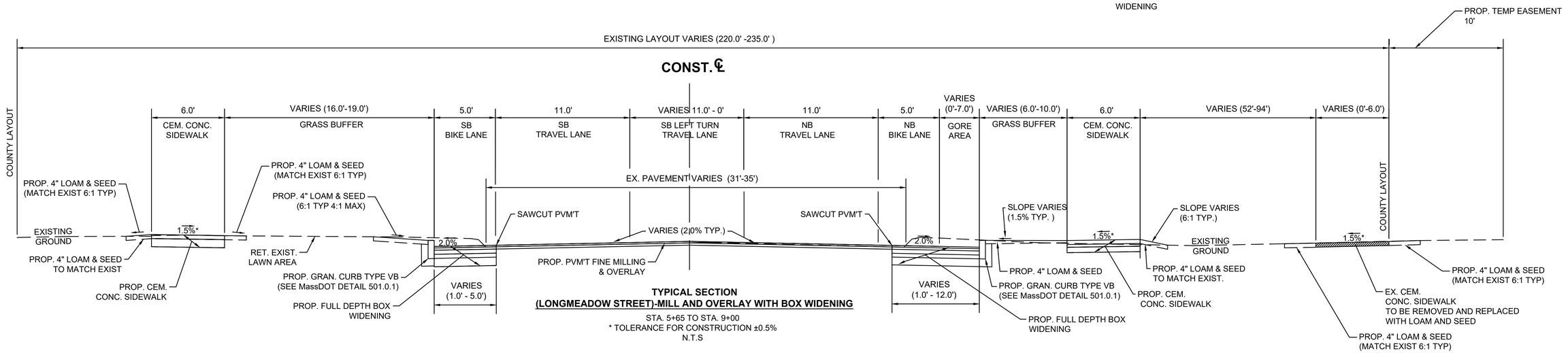
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	7	198
PROJECT FILE NO.	608881		

TYPICAL SECTIONS - LONGMEADOW ST / COLUMBUS AVE



TYPICAL SECTION
(LONGMEADOW STREET)-MILL AND OVERLAY WITH BOX WIDENING

STA. 2+09.46 TO STA. 3+81
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
(LONGMEADOW STREET)-MILL AND OVERLAY WITH BOX WIDENING

STA. 5+65 TO STA. 9+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

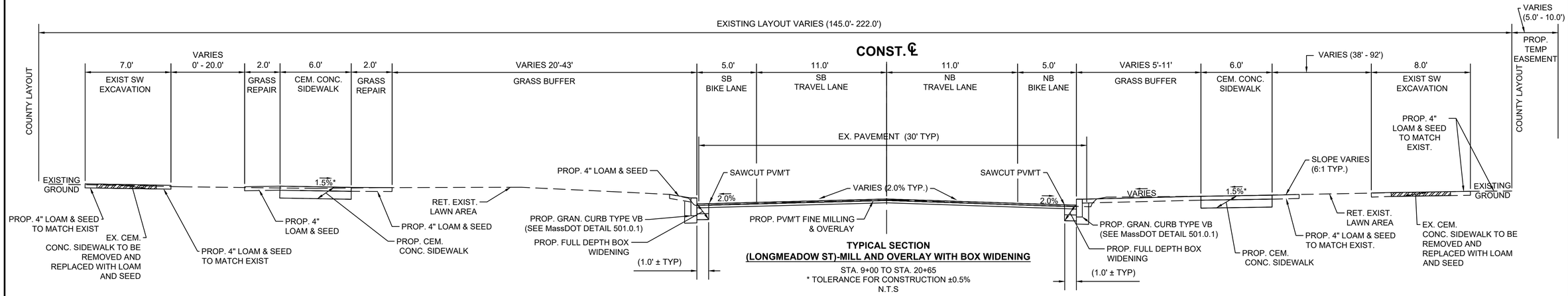
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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

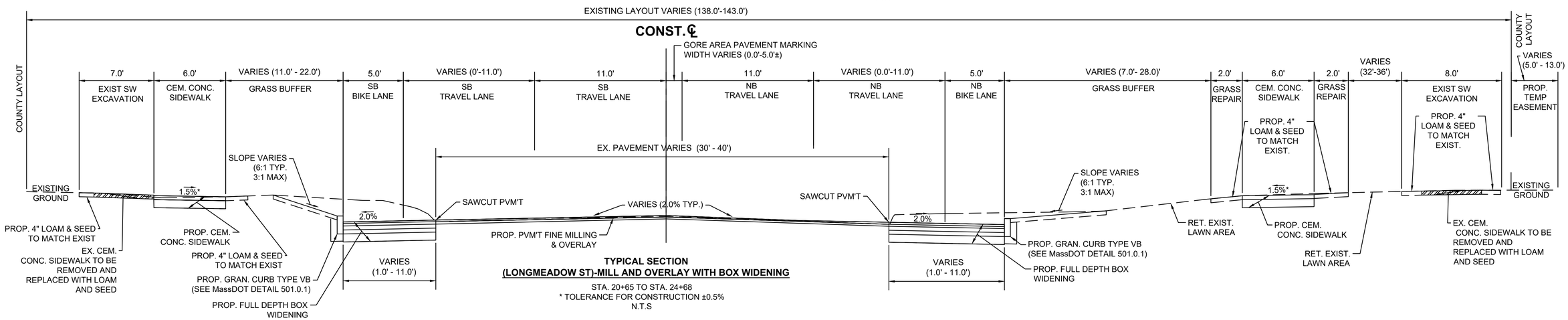
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	8	198
PROJECT FILE NO.	608881		

TYPICAL SECTIONS - LONGMEADOW ST / COLUMBUS AVE

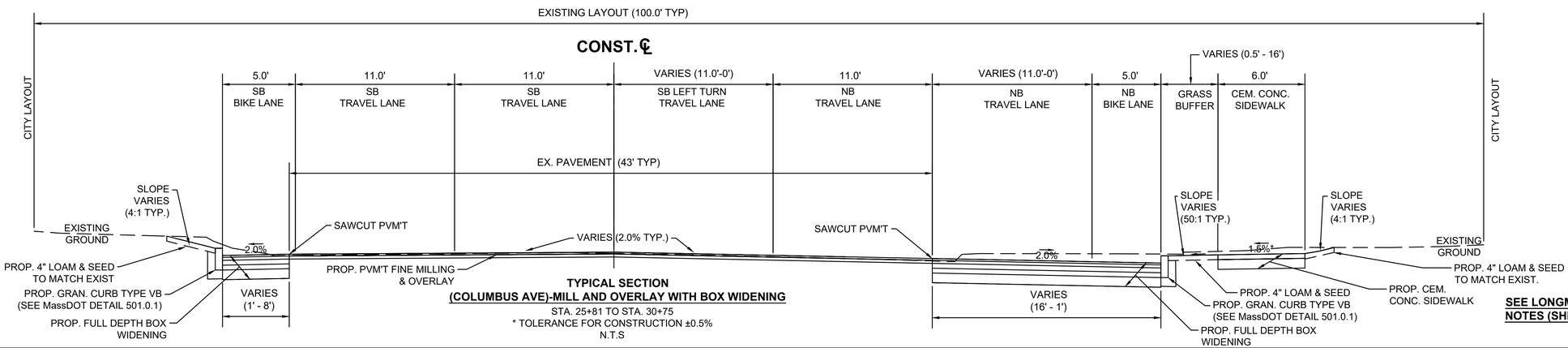
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TYPICAL SECTION
(LONGMEADOW ST)-MILL AND OVERLAY WITH BOX WIDENING
STA. 9+00 TO STA. 20+65
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
(LONGMEADOW ST)-MILL AND OVERLAY WITH BOX WIDENING
STA. 20+65 TO STA. 24+68
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
(COLUMBUS AVE)-MILL AND OVERLAY WITH BOX WIDENING
STA. 25+81 TO STA. 30+75
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE LONGMEADOW STREET/ COLUMBUS AVE PAVEMENT NOTES (SHEET 7)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	9	198
	PROJECT FILE NO. 608881		

TYPICAL SECTIONS - FOREST GLENN RD / ENGLEWOOD RD

20170404A10_TYP01.DWG Plotted on 17-Jun-2025 4:53 PM

FOREST GLEN RD PAVEMENT NOTES

PROPOSED PAVEMENT MILLING AND OVERLAY

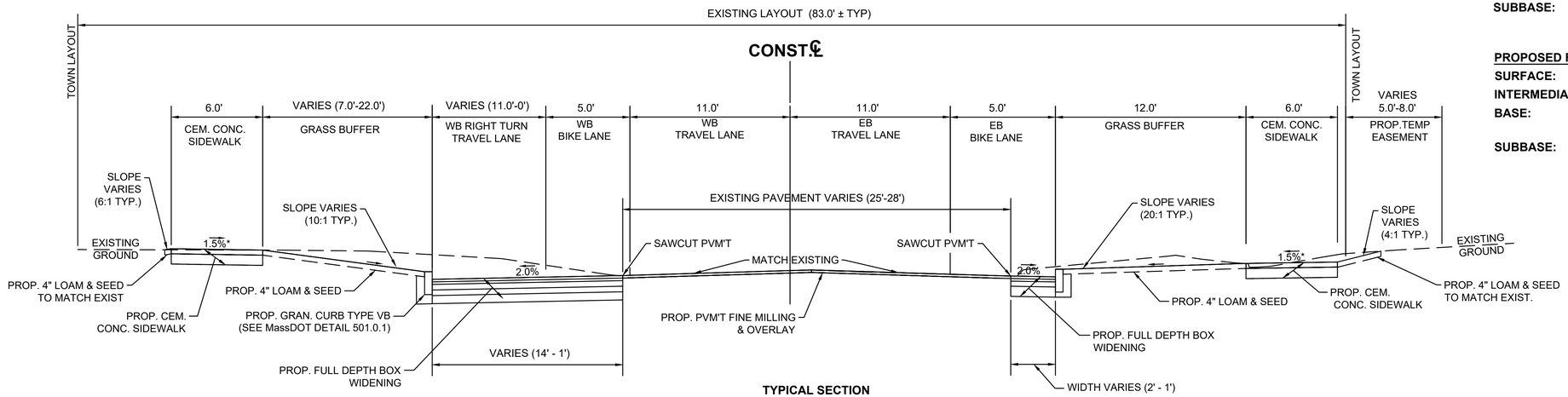
MILLING: 1-3/4" PAVEMENT FINE MILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 POLYMER

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1 3/4 " SUPERPAVE SURFACE COURSE - 12.5 POLYMER OVER
INTERMEDIATE: 2 1/4 " SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 4 " SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4 " DENSE GRADED CRUSHED STONE OVER 8" GRAVE BORROW, TYPE b.

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 POLYMER OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.



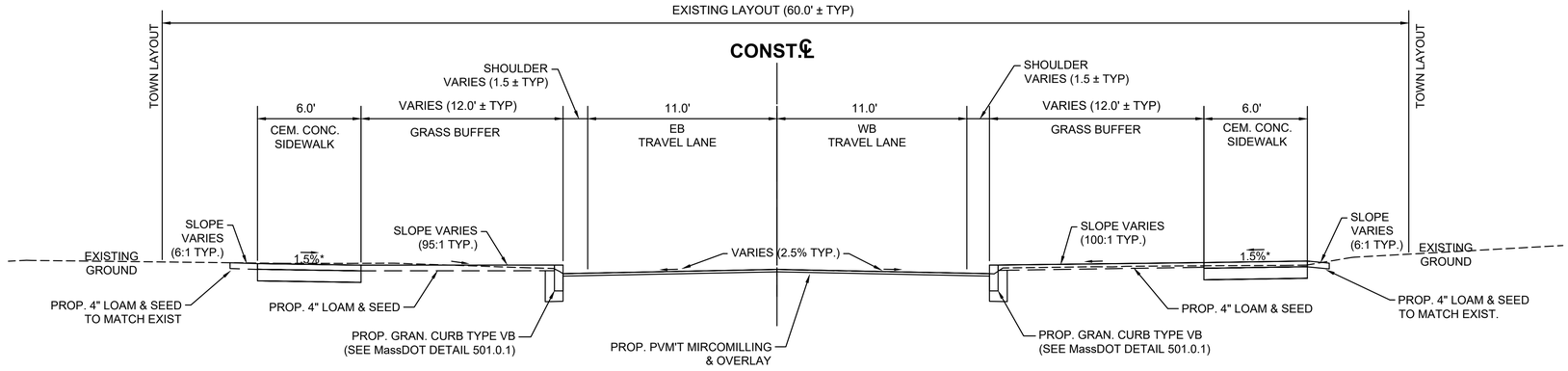
TYPICAL SECTION
(FOREST GLEN RD)-MILL AND OVERLAY WITH BOX WIDENING
STA. 200+68 TO STA. 205+18.9
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	10	198
PROJECT FILE NO.	608881		

TYPICAL SECTIONS - CONVERSE ST

20170404A10_TYP01.DWG Plotted on 17-Jun-2025 4:53 PM



TYPICAL SECTION
(ENGLEWOOD RD)-MILL AND OVERLAY
STA. 100+66.77 TO STA. 102+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

CONVERSE ST PAVEMENT NOTES

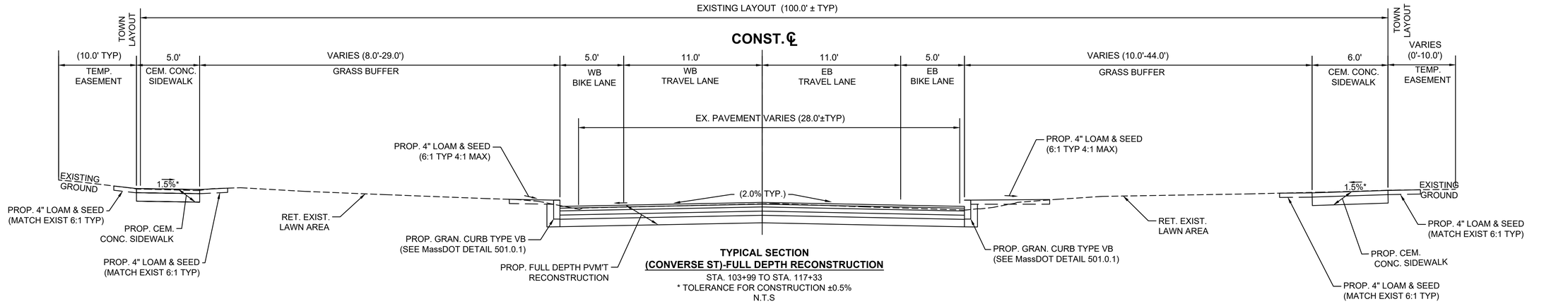
PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 POLYMER OVER
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4 " DENSE GRADED CRUSHED STONE OVER 8" GRAVE BORROW, TYPE b.

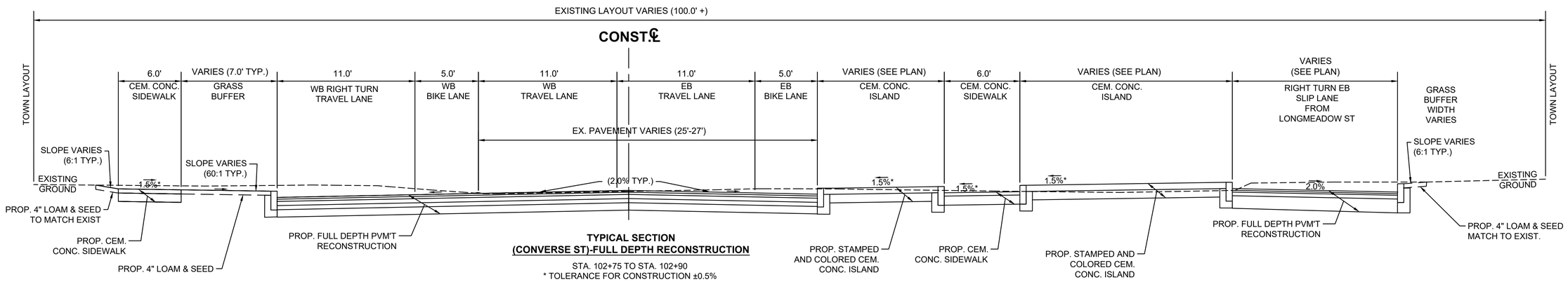
ENGLEWOOD RD PAVEMENT NOTES

PROPOSED PAVEMENT MILLING AND OVERLAY

MILLING: 1-3/4" PAVEMENT FINE MILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE -12.5 POLYMER



TYPICAL SECTION
(CONVERSE ST)-FULL DEPTH RECONSTRUCTION
STA. 103+99 TO STA. 117+33
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

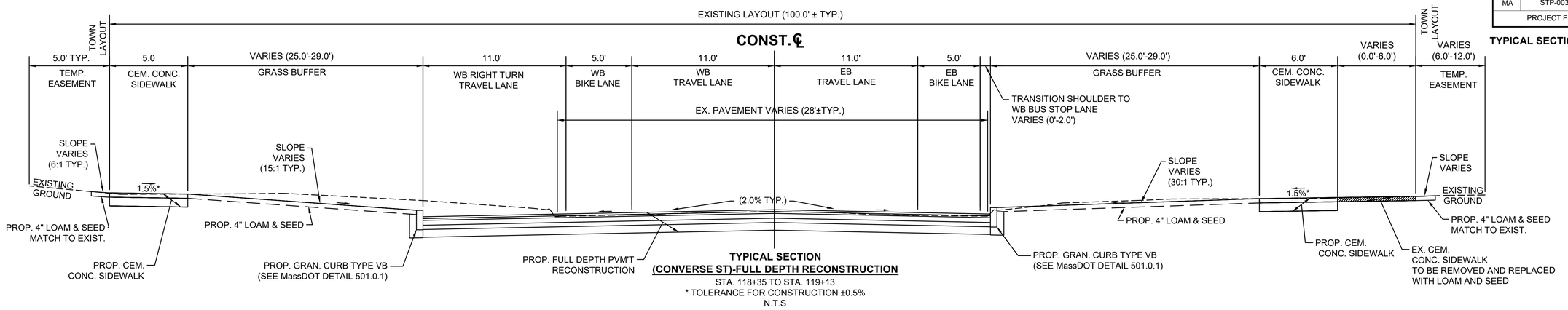


TYPICAL SECTION
(CONVERSE ST)-FULL DEPTH RECONSTRUCTION
STA. 102+75 TO STA. 102+90
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

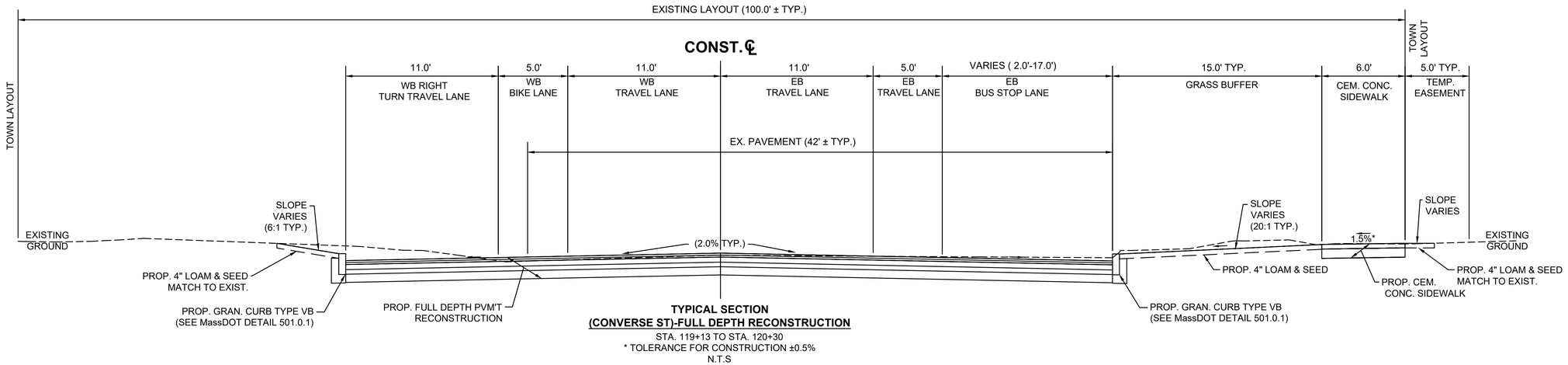
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	11	198
PROJECT FILE NO.	608881		

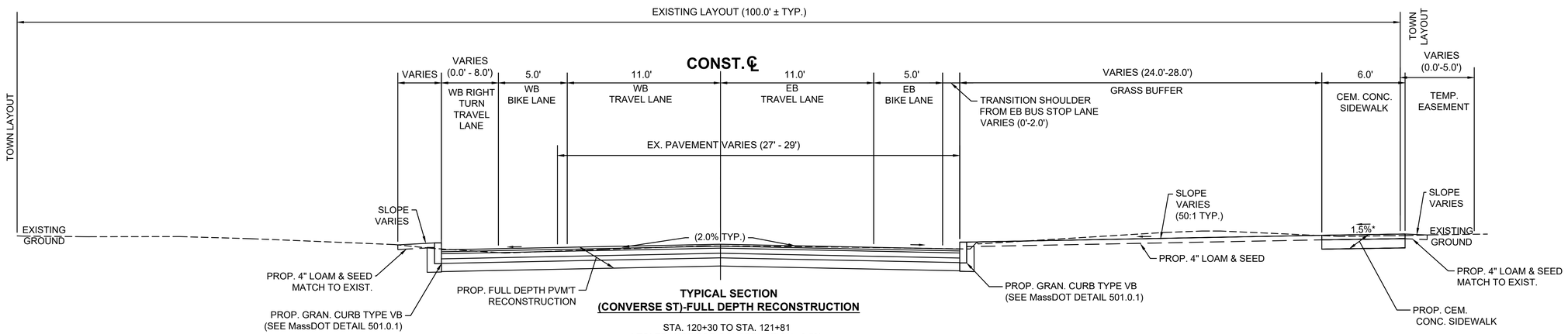
TYPICAL SECTIONS - CONVERSE ST



TYPICAL SECTION
(CONVERSE ST)-FULL DEPTH RECONSTRUCTION
STA. 118+35 TO STA. 119+13
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
(CONVERSE ST)-FULL DEPTH RECONSTRUCTION
STA. 119+13 TO STA. 120+30
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



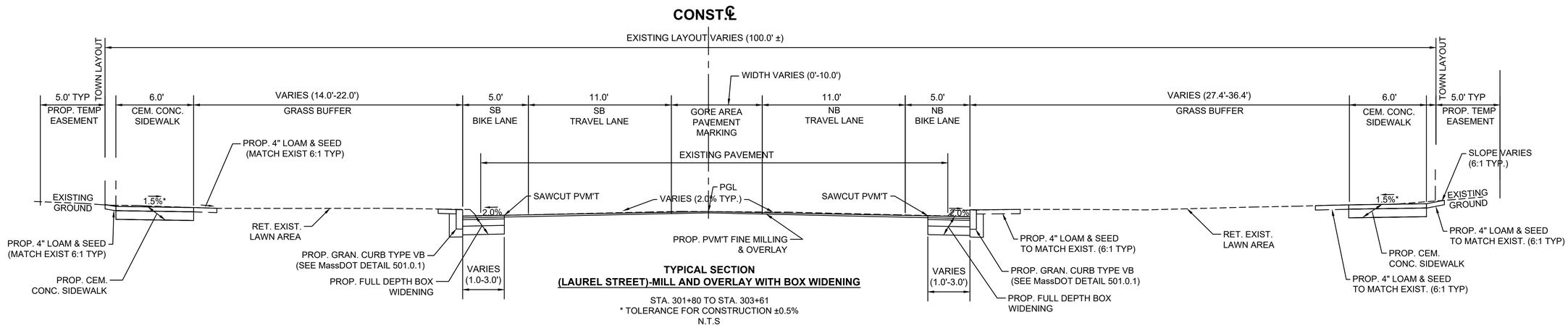
TYPICAL SECTION
(CONVERSE ST)-FULL DEPTH RECONSTRUCTION
STA. 120+30 TO STA. 121+81
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE CONVERSE STREET PAVEMENT NOTES (SHEET 10)

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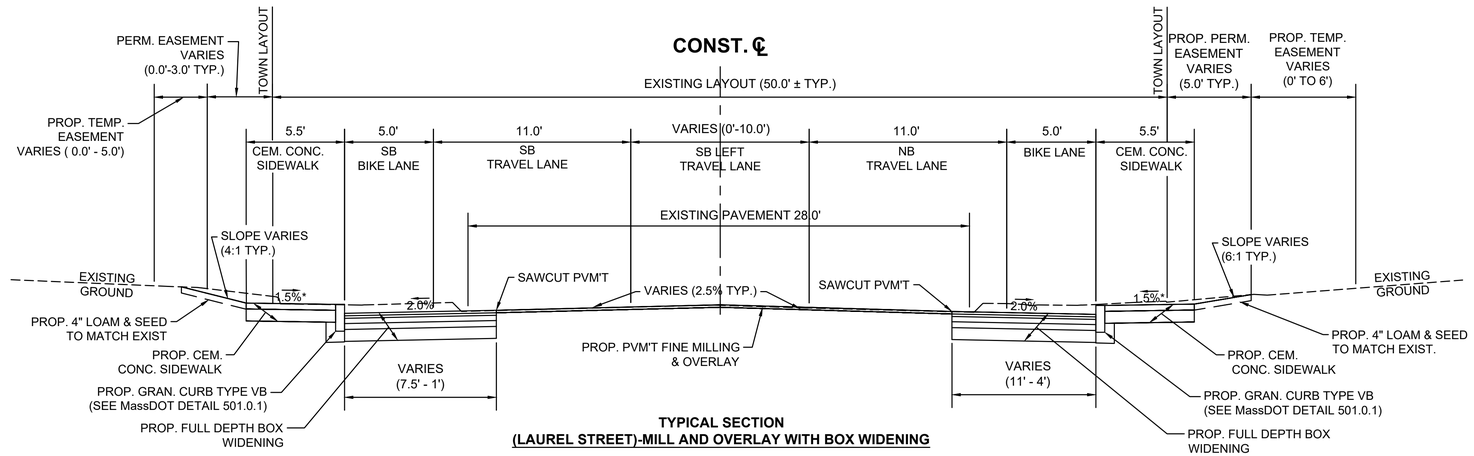
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	12	198
PROJECT FILE NO.	608881		

TYPICAL SECTIONS - LAUREL ST



TYPICAL SECTION
(LAUREL STREET)-MILL AND OVERLAY WITH BOX WIDENING

STA. 301+80 TO STA. 303+61
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
(LAUREL STREET)-MILL AND OVERLAY WITH BOX WIDENING

STA. 304+56 TO STA. 307+57
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

LAUREL ST PAVEMENT NOTES

PROPOSED PAVEMENT MILLING AND OVERLAY

MILLING: 1-3/4" PAVEMENT FINE MILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 POLYMER

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1 3/4 " SUPERPAVE SURFACE COURSE - 12.5 POLYMER
INTERMEDIATE: 1 3/4 " SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 3 1/2 " SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4 " DENSE GRADED CRUSHED STONE OVER 8" GRAVE BORROW, TYPE b.

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 POLYMER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.

20170404A10_TYP01.DWG Plotted on 17-Jun-2025 4:53 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 56-60

DRAINAGE DETAILS

SEE SHEET 68-79

NOTES:

1. THE EXISTING GRASS BUFFER BETWEEN THE ROADWAY AND SIDEWALK SHALL ONLY BE RE-LOAMED/SEEDED IF DISTURBED BY CONSTRUCTION ACTIVITIES (SUCH AS SIDEWALK REMOVAL, REGRADING, ETC.) OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING GRANITE CURB IN GOOD CONDITION SHALL BE REMOVED AND RESET WITHIN PROJECT LIMITS UNLESS DIRECTED BY THE TOWN.
3. ALL EXISTING GRANITE CURB IN POOR CONDITION WITHIN PROJECT LIMITS SHALL BE REMOVED & DISCARDED UNDER ITEM #594.
4. CONTRACTOR CANNOT USE GRASS COMMON AREAS ALONG THE CORRIDOR AS A STAGING AREA.
5. CONTRACTOR SHALL WORK IN COORDINATION WITH THE TOWN ARBORIST TO DETERMINE WHERE ARBORIST OVERSIGHT IS NECESSARY AND WHERE WORK INCLUDING BUT NOT LIMITED TO AIR EXCAVATION & PRUNING, TREE & PLANT PROTECTION FENCE, AND TRUNK ARMORING & PRUNING ARE REQUIRED

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

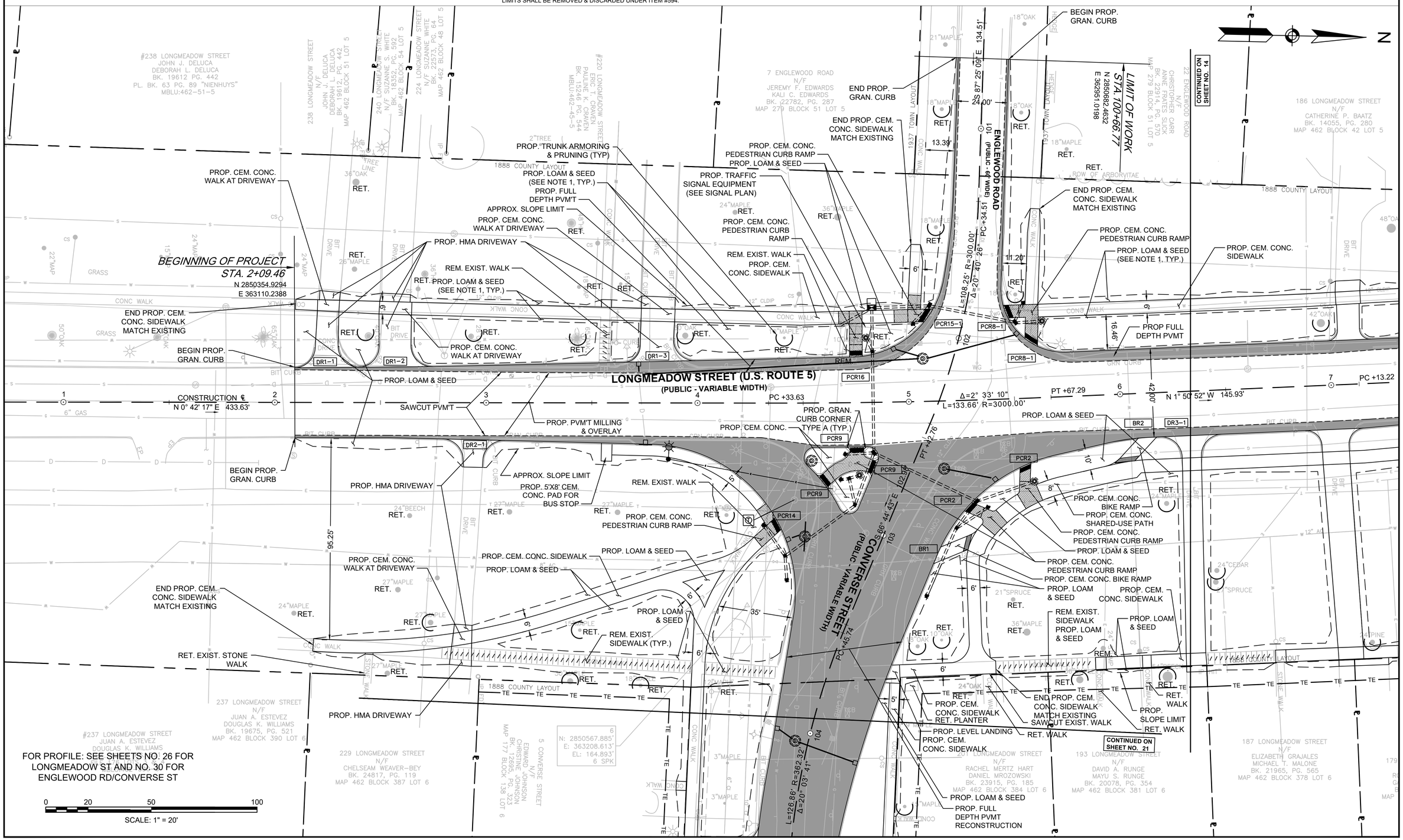
PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	13	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 11-Jul-2025 2:50 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

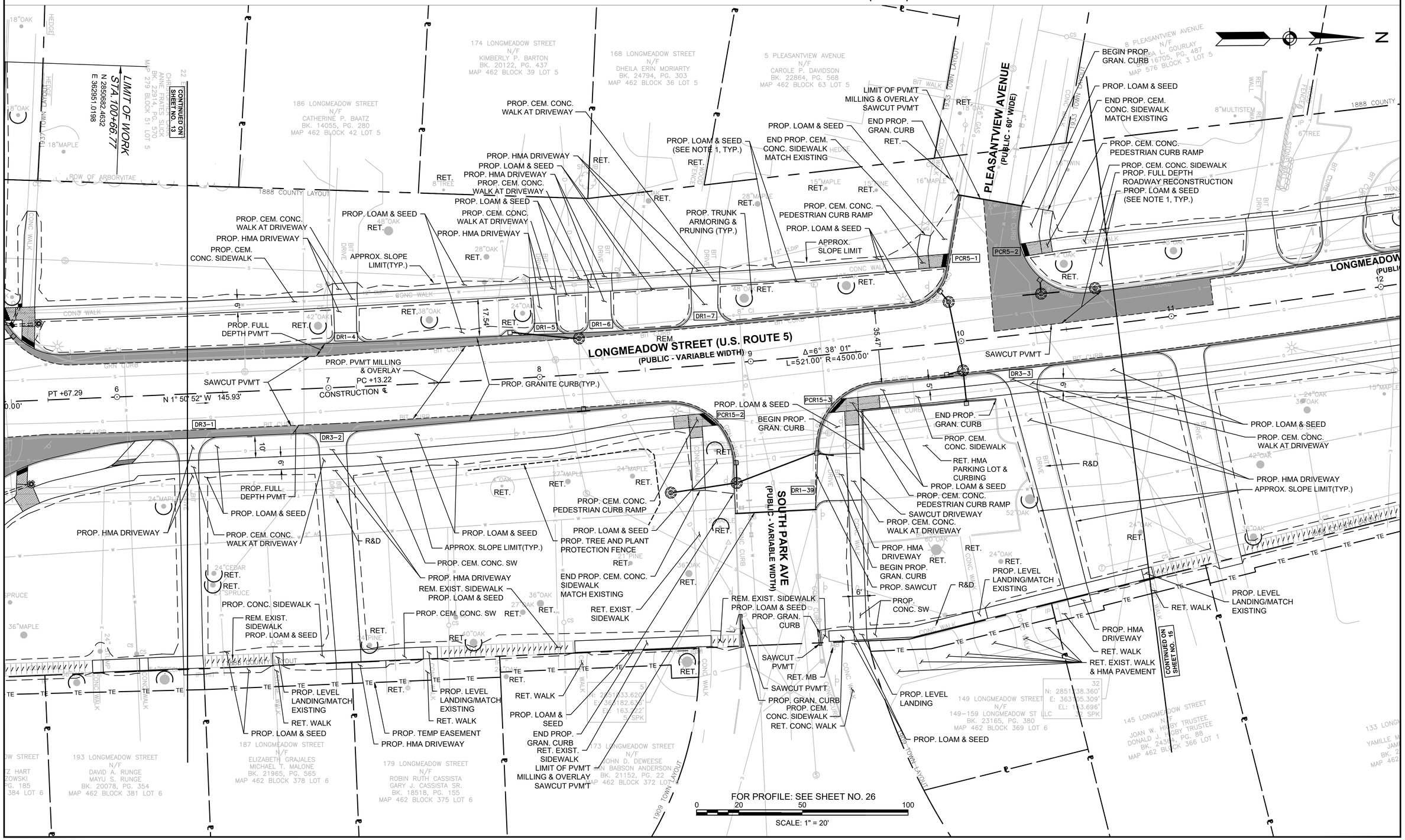
PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	14	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:03 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

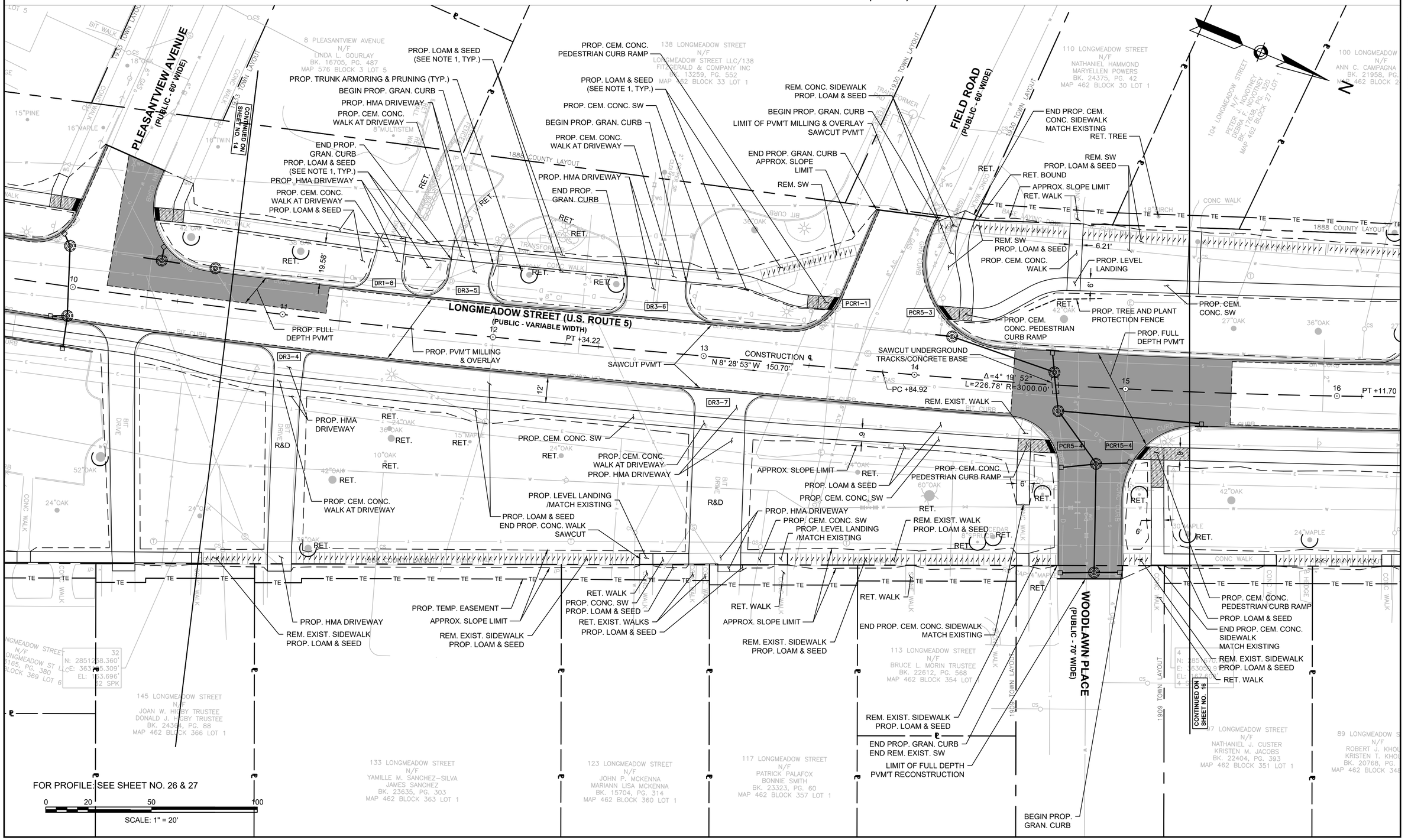
PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	15	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS



20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:04 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	16	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:05 PM

110 LONGMEADOW STREET N/F NATHANIEL HAMMOND MARYELLEN POWERS BK. 24375, PG. 42 MAP 462 BLOCK 30 LOT 1

104 LONGMEADOW STREET N/F PETER J. NOVOTNEY DEBRA L. NOVOTNEY BK. 17648, PG. 320 MAP 462 BLOCK 27 LOT 1

100 LONGMEADOW STREET N/F ANN C. CAMPAGNA TRUSTEE BK. 21958, PG. 376 MAP 462 BLOCK 24 LOT 1

86 LONGMEADOW STREET N/F COLLIN MCQUADE BK. 24563, PG. 225 MAP 462 BLOCK 21 LOT 1

76 LONGMEADOW STREET N/F LINDA A. HICKLING ANGEL L. GARCIA BK. 23041, PG. 17 MAP 462 BLOCK 18 LOT 1

70 LONGMEADOW STREET N/F CHRISTOPHER BELINDA ANNEMARIE BELINDA BK. 23502, PG. 39 MAP 462 BLOCK 15 LOT 1

46 LONGMEADOW STREET N/F RAYMOND P. MCCARTHY SARAH S. MCCARTHY BK. 14944, PG. 306 MAP 462 BLOCK 12 LOT 1

N

CONTINUED ON SHEET NO. 15

RET. CONC. WALK
PROP. CEM. CONC. WALKWAY
REM. EXIST. SIDEWALK
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. LEVEL LANDING
PROP. FULL DEPTH PVM'T
SAWCUT PVM'T
PROP. CEM. CONC. SIDEWALK
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
REM. EXIST. WALK
PROP. LOAM & SEED
PROP. LEVEL LANDING/MATCH EXISTING
RET. WALK
PROP. CEM. CONC. SW
RET. HEDGES
PROP. LEVEL LANDING /MATCH EXISTING
RET. IP
PROP. TRUNK ARMORING & PRUNING (TYP.)
APPROX. SLOPE LIMIT
REM. EXIST. WALK
PROP. HMA DRIVEWAY
RET. DRIVEWAY
REM. CONC. SIDEWALK
PROP. LOAM & SEED
PROP. PVM'T MILLING & OVERLAY
PROP. HMA DRIVEWAY
END PROP. SW MATCH EXISTING
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
END PROP. SW MATCH EXISTING
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
REM. EXIST. SIDEWALK
APPROX. SLOPE LIMIT
END PROP. WALK
REM. EXIST. WALK
PROP. LOAM & SEED
PROP. CEM. CONC. SW
PROP. LEVEL LANDING/MATCH EXISTING
APPROX. SLOPE LIMIT (TYP.)
PROP. CEM. CONC. SW
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
END PROP. GRAN. CURB
END REM. EXIST. SW
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
BEGIN PROP. GRAN. CURB
BEGIN REM. EXIST. SW

LONGMEADOW STREET (U.S. ROUTE 5)
(PUBLIC - VARIABLE WIDTH)

CONSTRUCTION ℄

PT +11.70

52" 3000.00'

N 12° 48' 45" W 738.31'

WOODLAWN PLACE
(PUBLIC - 70' WIDE)

FERNLEAF AVENUE
(PUBLIC - 60' WIDE)

1909 TOWN LAYOUT

97 LONGMEADOW STREET N/F NATHANIEL J. CUSTER KRISTEN M. JACOBS BK. 22404, PG. 393 MAP 462 BLOCK 351 LOT 1

89 LONGMEADOW STREET N/F ROBERT J. KHOURY KRISTEN T. KHOURY BK. 20768, PG. 332 MAP 462 BLOCK 348 LOT 1

83 LONGMEADOW STREET N/F WALESKA PEREZ SEGARRA JASPER RANDLE CLARKSON BK. 23026, PG. 387 MAP 462 BLOCK 345 LOT 1

77 LONGMEADOW STREET N/F JASON S. DONALDSON, TRUSTEE BK. 24665, PG. 540 MAP 462 BLOCK 342 LOT 1

65 LONGMEADOW STREET N/F JULIE H. MARGETTA-MORGAN CHRISTOPHER L. MORGAN BK. 22298, PG. 563 MAP 462 BLOCK 339 LOT 1

43 LONGMEADOW STREET N/F GROSBEAK HOLDINGS LLC BK. 24589, PG. 265 MAP 462 BLOCK 336 LOT 1

CONTINUED ON SHEET NO. 17

FOR PROFILE: SEE SHEET NO. 27

APPROX LOCATION OF DRIVEWAY EASEMENT

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	17	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

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LIMIT OF WORK STA. 401+00 N 2852644.3249 E 362886.5166

WESTERN DRIVE (PUBLIC - 75' WIDE)

11 WESTERN DRIVE N/F JOSEPH S. KENNEDY ELIZABETH S. KENNEDY BK. 9544, PG. 559 MAP 462 BLOCK 3 LOT 1

46 LONGMEADOW STREET N/F RAYMOND P. MCCARTHY SARAH S. MCCARTHY BK. 14944, PG. 306 MAP 462 BLOCK 12 LOT 1

32 LONGMEADOW STREET N/F SHERALEE ANNE TERSHNER DENNIS JOSEPH KOLODZIEJSKI BK. 15395, PG. 105 MAP 462 BLOCK 9 LOT 1

26 LONGMEADOW STREET N/F ANDREW E. FINN KAREN M. FINN BK. 22156, PG. 250 MAP 462 BLOCK 6 LOT 1

12 LONGMEADOW STREET N/F MAUREEN MULCAHY BK. 21249, PG. 95 MAP 462 BLOCK 3 LOT 2

CONTINUED ON SHEET NO. 16

PROP. HMA DRIVEWAY

PROP. CEM. CONC. WALK AT DRIVEWAY

PROP. TRUNK ARMORING & PRUNING (TYP.)

PROP. LOAM & SEED

PROP. CEM. CONC. SIDEWALK

PROP. LOAM & SEED (SEE NOTE 1, TYP.)

PROP. HMA DRIVEWAY

SAWCUT UNDERGROUND TRACKS/CONCRETE BASE

REM. CONC. SIDEWALK

REM. TREE

APPROX. SLOPE LIMIT

R&R PAVERS

PROP. FULL DEPTH PVM'T

REM. CONC. SIDEWALK

PROP. LOAM & SEED

PROP. PVM'T MILLING & OVERLAY

1888 COUNTY LAYOUT

1931 TOWN LAYOUT

REM. EXIST. SIDEWALK

SAWCUT UNDERGROUND TRACKS/CONCRETE BASE

CONSTRUCTION ℄ PROP. CEM. CONC. WALK AT DRIVEWAY

SAWCUT PVM'T

PROP. CEM. CONC. SW.

PROP. CEM. CONC. WALK AT DRIVEWAY

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

PROP. CEM. CONC. SW.

REM. EXIST. WALK PROP. LOAM & SEED

APPROX. SLOPE LIMIT

PROP. LEVEL LANDING/MATCH EXISTING

RET. WALK

RET. LP

RET. BOUND

PROP. TRUNK ARMORING & PRUNING (TYP.)

REM. EXIST. SIDEWALK PROP. LOAM & SEED

RET. EXIST. WALL

END PROP. CEM. CONC. SIDEWALK MATCH EXISTING

PROP. CONC. SIDEWALK

PROP. HMA DRIVEWAY

PROP. HMA DRIVEWAY TO MEET EXIST. SAWCUT

END PROP. HMA DRIVEWAY MEET EXIST. SAWCUT

REM. EXIST. WALK PROP. LOAM & SEED

RET. HEDGES

RET. TREE

RET. WALK

PROP. CONC. SIDEWALK

CONTINUED ON SHEET NO. 18

CONTINUED ON SHEET NO. 20

LONGMEADOW STREET (U.S. ROUTE 5)
(PUBLIC - VARIABLE WIDTH)

FERNLEAF AVENUE
(PUBLIC - 60' WIDE)

FOREST GLEN ROAD
(PUBLIC - 63' WIDE)

N 12° 48' 45" W 738.31'

Δ=16° 41' 30" L=291.32' R=1000.00'

PC +50.00

200+00

FOR PROFILE: SEE SHEET NO. 27 & 28

0 20 50 100

SCALE: 1" = 20'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	18	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

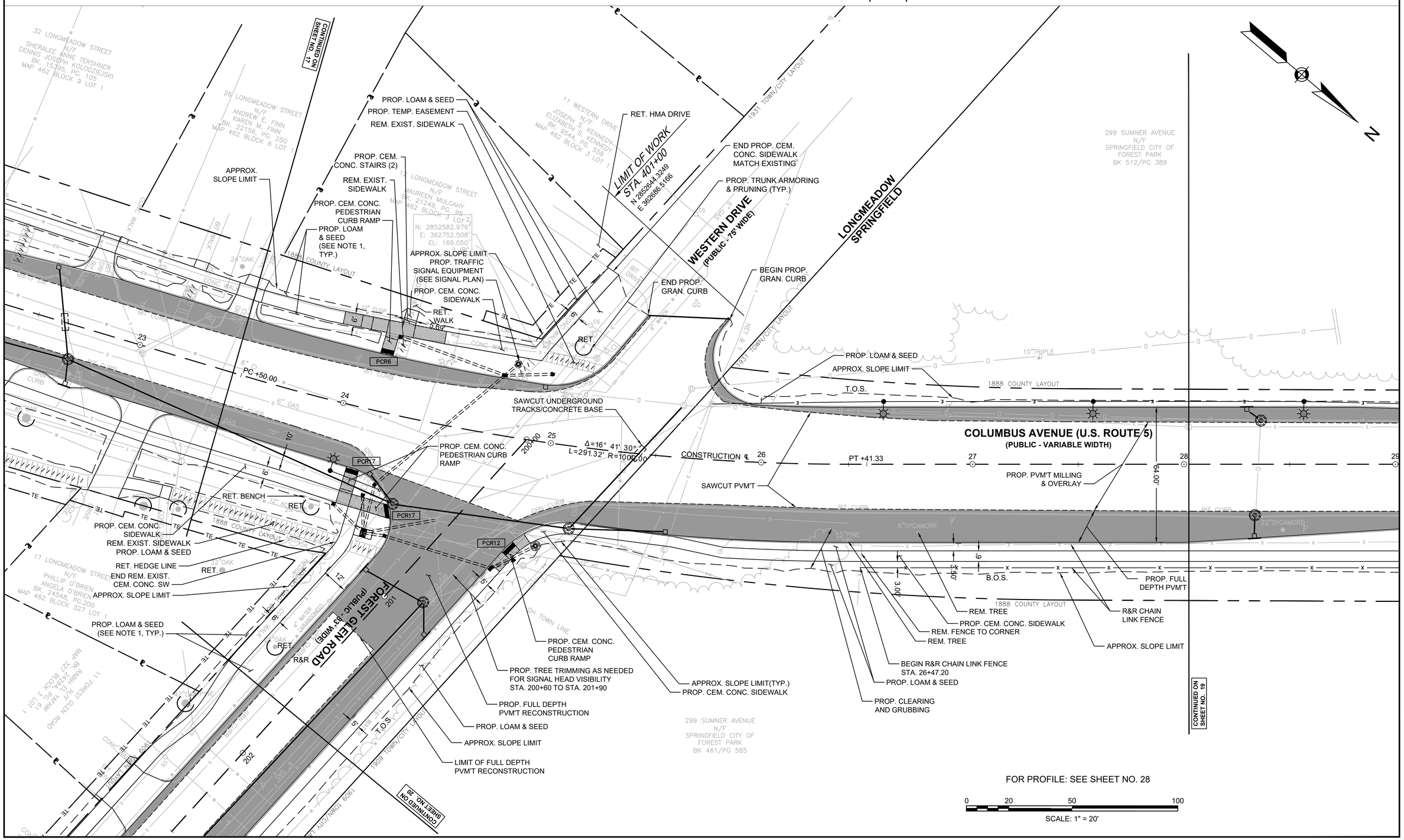
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	SEE SHEET 56	NONE	SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TRUNK ARMORING & PRUNING



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HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	19	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 11-Jul-2025 2:50 PM

N

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 512/PG 389

CONTINUED ON SHEET NO. 18

10"TRIPLE

1888 COUNTY LAYOUT

COLUMBUS AVENUE (U.S. ROUTE 5)
(PUBLIC - VARIABLE WIDTH)

27 28 CONSTRUCTION ℄ 29 30 31 32 32+74.68

N 29° 30' 15" W 633.35'

B.O.S.

BIT. CURB

22"SYCAMORE

REM. TREE

R&R CHAIN LINK FENCE

PROP. CEM. CONC. SIDEWALK

END R&R CHAIN LINK FENCE STA. 29+30.36

PROP. FULL DEPTH PVM'T

PROP. PVM'T MILLING & OVERLAY

PROP. LOAM & SEED

APPROX. SLOPE LIMIT

PROP. LOAM & SEED

APPROX. SLOPE LIMIT

RET. EXIST WOOD GUARDRAIL

LIMIT OF PVM'T MILLING & OVERLAY

END PROP. GRAN. CURB

RET.

REM.

15.90'

6'

RET. GRAVEL

PROP. CLEARING LIMIT

PROP. TRUNK ARMORING & PRUNING (TYP.)

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

END PROP. GRAN. CURB

N 2853141.740'
E 362546.640'
EL: 147.500'
1 IRC

TRANSFORMER PAD

LAMPOST

PCR1–2

PROP. CEM. CONC.

PROP. CEM. CONC. SIDEWALK

PROP. CEM. CONC.

PROP. GRAN. CURB

SAWCUT PVM'T

N/F SPRINGFIELD CITY OF

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 461/PG 585

LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T

BEGIN PROP. GRAN. CURB

RET. WOOD GUARDRAIL

END PROP. CEM. CONC. SIDEWALK MATCH EXISTING

BEGIN R&D WOOD GUARDRAIL AT NEAREST VERTICAL POST

PROP. CEM. CONC. SW

END R&D WOOD GUARDRAIL

PROP. LOAM & SEED

PROP. CEM. CONC. PEDESTRIAN CURB RAMP MASSDOT RAMP #6701

REM. POST

RET. TRAFFIC SIGNAL

REM. EXIST. WALK

PROP. LOAM & SEED

RET. FENCE

END PROP. GRAN. CURB

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 512/PG 389

RET. EXIST. WCR MASSDOT RAMP #6702

END OF PROJECT
STA. 32+50.00
N 2853269.4291
E 362427.6962

1958 SHLO NO ACCESS

BIT. SIDEWALK

BIT. CURB

CONC. WALK

ACCESS

PCR7

GRN. CURB

RET.

LIMIT OF PVM'T MILLING & OVERLAY

1888 COUNTY LAYOUT

FOR PROFILE: SEE SHEET NO. 28

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	20	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:08 PM

N

CONTINUED ON SHEET NO. 18

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 461/PG 585

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 461/PG 585

1909 TOWN/CITY LAYOUT

PROP. FULL DEPTH PVM'T

SPRINGFIELD
LONGMEADOW

PROP. GRAN CURB

PROP. LOAM & SEED

PROP. CEM. CONC. SIDEWALK

PROP. TRUNK ARMORING & PRUNING (TYP.)

APPROX. SLOPE LIMIT

30
N: 2852511.175'
E: 363378.339'
EL: 172.144'
30 DH

LIMIT OF WORK
STA. 205+18.89
N 2852487.8198
E 363298.6229

T.O.S.

END PROP. CEM. CONC. SIDEWALK

END PROP. GRAN. CURB

LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T

PROP. PVM'T MILLING & OVERLAY

SAWCUT PVM'T

FOREST GLEN ROAD
(PUBLIC - 83' WIDE)

S 77° 21' 29" E 760.18'

CONSTRUCTION ℄

PROP. CONC. SW

43.00'

12.28'

201 202 203 204 205 206

+00

PC +50.00

DR1–36 DR1–37 DR4–1 DR4–2

R&R

RET.

PROP. LOAM & SEED

RET. WALK

PROP. CEM. CONC. WALK AT DRIVEWAY

PROP. HMA DRIVEWAY

PROP. TEMP. EASEMENT

PROP. CONC. WALK

PROP. LOAM & SEED

PROP. HMA DRIVEWAY

PROP. CEM. CONC. WALK AT DRIVEWAY

RET. DRIVEWAY

APPROX. SLOPE LIMIT

RET. FENCE

REMOVE STUMP

PROP. LOAM & SEED (SEE NOTE 1, TYP.)

PROP. CEM. CONC. SIDEWALK

APPROX. SLOPE LIMIT

RET. WALK

RET. HEDGES

PROP. CEM. CONC. WALK AT DRIVEWAY

PROP. HMA DRIVEWAY

END PROP. /R&R GRAN. CURB

END PROP. CEM. CONC. SIDEWALK MATCH EXISTING

PROP. LOAM & SEED

RET. EXIST FENCE

CONTINUED ON SHEET NO. 17

FOR PROFILE: SEE SHEET NO. 29

0 20 50 100

SCALE: 1" = 20'

11 FOREST GLEN ROAD N/F RABIH EL YAFAWI BK. 24284, PG. 61 MAP 327 BLOCK 3 LOT 1

19 FOREST GLEN ROAD N/F ANGELINE FERNANDEZ BK. 22036, PG. 90 MAP 327 BLOCK 6 LOT 1

25 FOREST GLEN ROAD N/F MICHAEL S. D'ANGELO TRUSTEE JUDITH S. D'ANGELO TRUSTEE BK. 22[illegible]5, PG. 229 MAP 327 BLOCK 9 LOT 1

33 FOREST GLEN ROAD N/F DOUGLAS L. SODER PENNY B. SODER BK. 9839, PG. 126 MAP 327 BLOCK 12 LOT 1

#43 FOREST GLEN ROAD REVOCABLE INDENTURE OF TRUST OF PAMELA A. STEWART BK. 17163 PG. 453 PL. BK. 1 PG. 166 LOT 5 & 6 MBLU:327–15–1

#53 FOREST GLEN ROAD JOSEPH A. ECKERLE TANZANIA C. CANNON–ECKERLE BK. 22627 PG. 96 PL. BK. 1 PG. 166 LOT 6 & 7 MBLU:327–18–1

17 LONGMEADOW STREET N/F PHILLIP N. O'BRIEN BK. 24548, PG. 220 MAP 462 BLOCK 327 LOT 1

16 LONGMEADOW STREET N/F JOSHUA VINOGOUR BK. [illegible], PG. 183 MAP 462 BLOCK 326 LOT 1

WOODS LINE

WATER

GAS

CONC WALK

BIT DRIVE

CULTIVATED AREA

BRK STEPS

FF=176.89

FF=176.04

32"OAK

4"OAK

3"HW

10"HW

50"MAP

8"MAP

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	21	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

Plotted on 23-Jun-2025 5:09 PM
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N

CONTINUED ON SHEET NO. 13

PROP. HMA DRIVEWAY

193 LONGMEADOW STREET N/F DAVID A. RUNGE MAYU S. RUNGE BK. 20078, PG. 354 MAP 462 BLOCK 351 LOT 6

LONGMEADOW STREET N/F RACHEL MERTZ HART DANIEL HERTZ-BOZOWSKI BK. 23915, PG. 185 MAP 462 BLOCK 384 LOT 6

24 CONVERSE STREET N/F VINCE A. DABOUL MARY D. DABOUL BK. 13332, PG. 164 MAP 177 BLOCK 3 LOT 6

32 CONVERSE STREET N/F SARA SZETING TUNG TRUSTEE CRAIGIN BARTLETT HOWLAND TRUSTEE BK. 23820, PG. 600 MAP 177 BLOCK 6 LOT 2

36 CONVERSE STREET N/F ANDREW SHIELDS STACEY SHIELDS BK. 22020, PG. 321 MAP 177 BLOCK 9 LOT 2

40 CONVERSE STREET N/F LORI J. PACHOLSKI MICHAEL J. PACHOLSKI BK. 10525, PG. 301 MAP 177 BLOCK 12 LOT 2

44 CONVERSE STREET N/F CATHERINE B. GRANT JAMES C. GRANT BK. 19367, PG. 115 MAP 177 BLOCK 15 LOT 2

48 CONVE... DIANNA ... BK. 182... 177 BL...

PROP. CONC. WALK
RET. WALK
PROP. CONC. SIDEWALK PANEL FOR RESIDENTIAL CONNECTION (TYP.)
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
PROP. HMA DRIVEWAY
PROP. CONC. WALK
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
APPROX. SLOPE LIMIT
PROP. GRAN. CURB
PROP. TEMP. EASEMENT
PROP. FULL DEPTH PVM'T
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. LOAM & SEED
REM. EXIST WALK
PROP. LOAM & SEED
REM. EXIST WALK
PROP. LOAM & SEED
PROP. TRUNK ARMORING & PRUNING (TYP.)
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
RET. WALK
PROP. CONC. WALK
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY
RET. LIGHT
RET. WALK

RET. 9"MAPLE 15"MAPLE 21"SPRUCE 36"MAPLE 24"OAK 10"OAK 18"MAPLE 24"MAPLE 10"MAPLE 12" GAS 18"MAPLE 12"MAPLE 9"MAPLE 36"OAK 30"MAPLE

CONC. WALK 24" JUMP CONC. WALK 5' CONCRETE SIDEWALK 4' GRASS STRIP 5' CONCRETE SIDEWALK

TE TE TE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	22	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:09 PM

N

CONTINUED ON SHEET NO. 21

40 CONVERSE STREET N/F LORI J. PACHOLSKI MICHAEL J. PACHOLSKI BK. 10525, PG. 301 MAP 177 BLOCK 12 LOT 2

44 CONVERSE STREET N/F CATHERINE B. GRANT JAMES C. GRANT BK. 19367, PG. 115 MAP 177 BLOCK 15 LOT 2

48 CONVERSE STREET N/F DIANNA GOLDBERG BK. 18254, PG. 301 MAP 177 BLOCK 18 LOT 2

62 CONVERSE STREET N/F WAYNE M. NELSON KATHLEEN NELSON BK. 9846, PG. 175 MAP 177 BLOCK 21 LOT 2

72 CONVERSE STREET N/F STEPHEN THOMAS GEORGE DIGIACOMO JESSICA DIGIACOMO BK. 23941, PG. 595 MAP 177 BLOCK 24 LOT 2

86 CONVERSE STREET N/F DAVID STEWART FRIDDLE BK. 21624, PG. 136 MAP 177 BLOCK 27 LOT 2 NOTE: SHARED DRIVEWAY EASEMENT

98 CONVERSE STREET N/F BERNARD S. COHEN JANE A. LINDFORS BK. 16087, PG. 41 MAP 177 BLOCK 30 LOT 2 NOTE: SHARED DRIVEWAY EASEMENT

RICHARD M. SCUZZA AND JUDITH A. SCUZZA BK. 7715,

APPROX. EXIST. EASEMENT

LLEWELLYN ST (PUBLIC - 60' WIDE)

1909 TOWN LAYOUT

1924 TOWN LAYOUT

PROP. CEM. CONC. SIDEWALK
PROP. CONC. SIDEWALK PANEL FOR RESIDENTIAL CONNECTION (TYP.)
PROP. GRAN. CURB
PROP. TEMP. EASEMENT
RET. HEDGES
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
RET. WALK
REM. EXIST. WALK
PROP. LOAM & SEED
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
RET. WALK
PROP. LOAM & SEED

BEGIN PROP. GRAN. CURB
LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T
END PROP. GRAN. CURB
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
RET. WALK
END PROP. GRAN. CURB

END PROP. GRAN. CURB
PROP. CEM. CONC. PEDESTRIAN CURB RAMP

PROP. CEM. CONC.
APPROX. SLOPE LIMIT
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
RET. WALK

APPROX. SLOPE LIMIT
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. HMA DRIVEWAY
RET. WALK

PCR5–10 PCR5–11

PROP. G.C.

32'00"

108 109 110 111 112 113

CONSTRUCTION ℄

S 86° 48' 24" E 1173.98'

CONVERSE STREET (PUBLIC - 100' WIDE)

PROP. FULL DEPTH PVM'T
PROP. LOAM & SEED

PROP. TRUNK ARMORING & PRUNING (TYP.)

DR1–23 DR1–25 DR1–24 DR1–26 DR1–27 DR1–28

R&D

RET. HEDGE

PROP. LEVEL LANDING

REM. EXIST. WALK
PROP. LOAM & SEED

PCR5–9 PCR5–8

RET. WALK
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. SIDEWALK
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. TEMP. EASEMENT

RET. WALK
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
MEET EXIST. SW
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
END PROP. GRAN. CURB
LIMIT OF FULL DEPTH PVM'T SAWCT PVM'T

HIGHLAND STREET (PUBLIC - 50' WIDE)

APPROX. SLOPE LIMIT
RET. WALK
PROP. TEMP. EASEMENT
MEET EXIST SW
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
BEGIN PROP. GRAN. CURB

PROP. 5'X 8' CEM. CONC. PAD FOR BUS STOP
PROP. CEM. CONC. SIDEWALK
APPROX. SLOPE LIMIT

RET. WALK
REM. EXIST. WALK
PROP. LOAM & SEED (SEE NOTE 1, TYP.)

RET. WALK
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY
PROP. GRAN. CURB

RET. WALK
PROP. LOAM & SEED (SEE NOTE 1, TYP.)
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
RET. TREE
MEET EXIST. SW

HOMECREST STREET (PUBLIC - 50' WIDE)

CONTINUED ON SHEET NO. 23

39 CONVERSE STREET N/F SAUYIN WONG TRUSTEE WAIMAN LEE TRUSTEE KRIS–ANN LEE TRUSTEE BK. 24299, PG. 380 MAP 177 BLOCK 150 LOT 6

43 CONVERSE STREET N/F DAVID J. BLAIS LAURA A. BLAIS BK. 15951, PG. 56 MAP 177 BLOCK 153 LOT 6

51 CONVERSE STREET N/F DONALD J. SONN BK. 20293, PG. 469 MAP 177 BLOCK 156 LOT 6

59 CONVERSE STREET N/F AMY J. MEGLIOLA NANCY A. REMILLARD BK. 21293, PG. 18 MAP 177 BLOCK 159 LOT 6

67 CONVERSE STREET N/F JENNIFER LYNNE MACLELLAND BK. 19078, PG. 270 MAP 177 BLOCK 162 LOT 6

73 CONVERSE STREET N/F ALICIA RUTH ORSI BK. 11208, PG. 178 MAP 177 BLOCK 178 LOT 6

81 CONVERSE STREET N/F CHRISTOPHER WOJCIK BK. 23385, PG. 134 MAP 177 BLOCK 168 LOT 6

87 CONVERSE STREET N/F STEPHEN N. FOLEY JUDITH C. FOLEY BK. 7537, PG. 15 MAP 177 BLOCK 171 LOT 6

101 CONVERSE STREET N/F ARUN MATHUR DARBY L. MATHUR BK. 19017, PG. 480 MAP 177 BLOCK 174 LOT 6

FOR PROFILE: SEE SHEET NO. 30 & 31

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

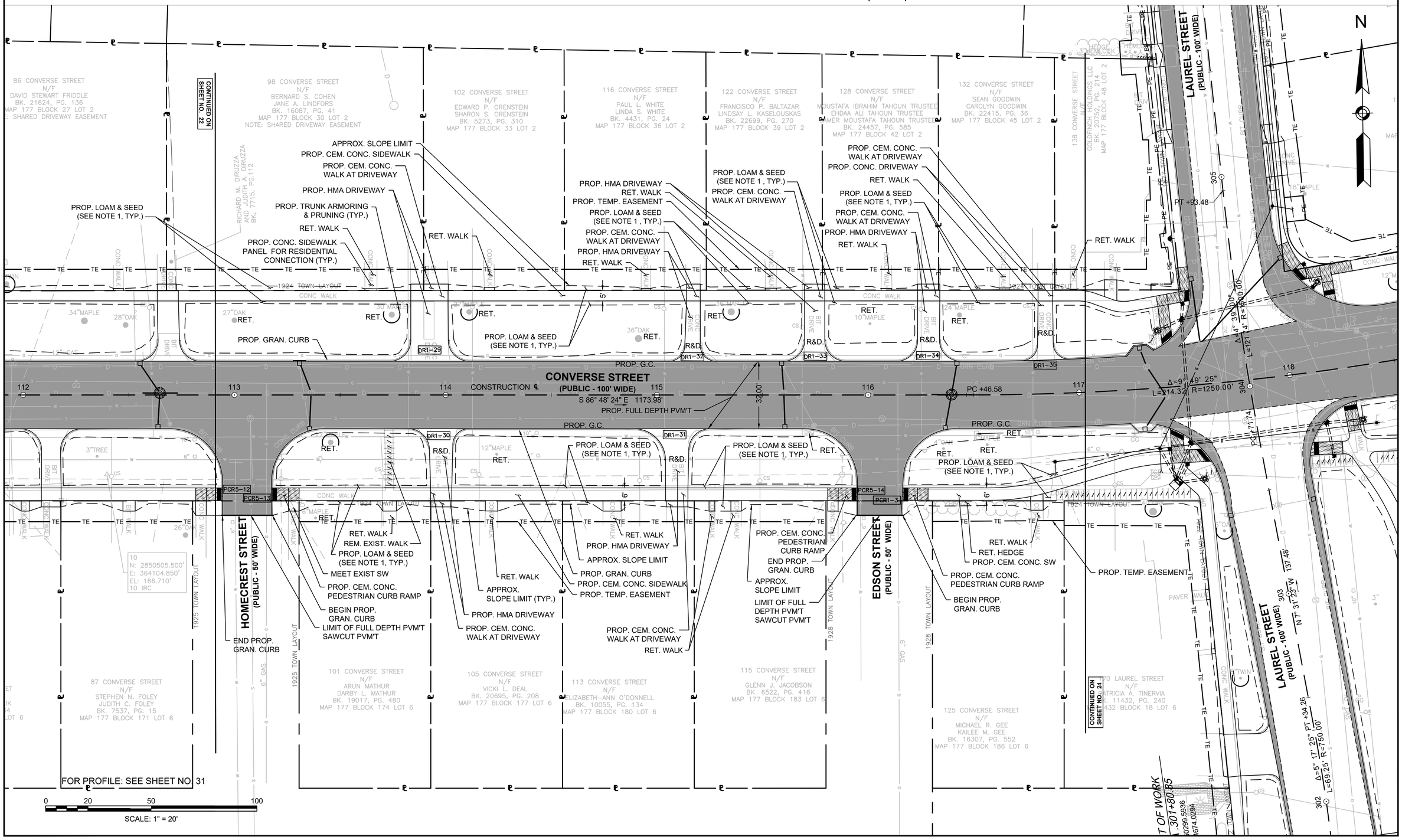
PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	23	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:10 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 58

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

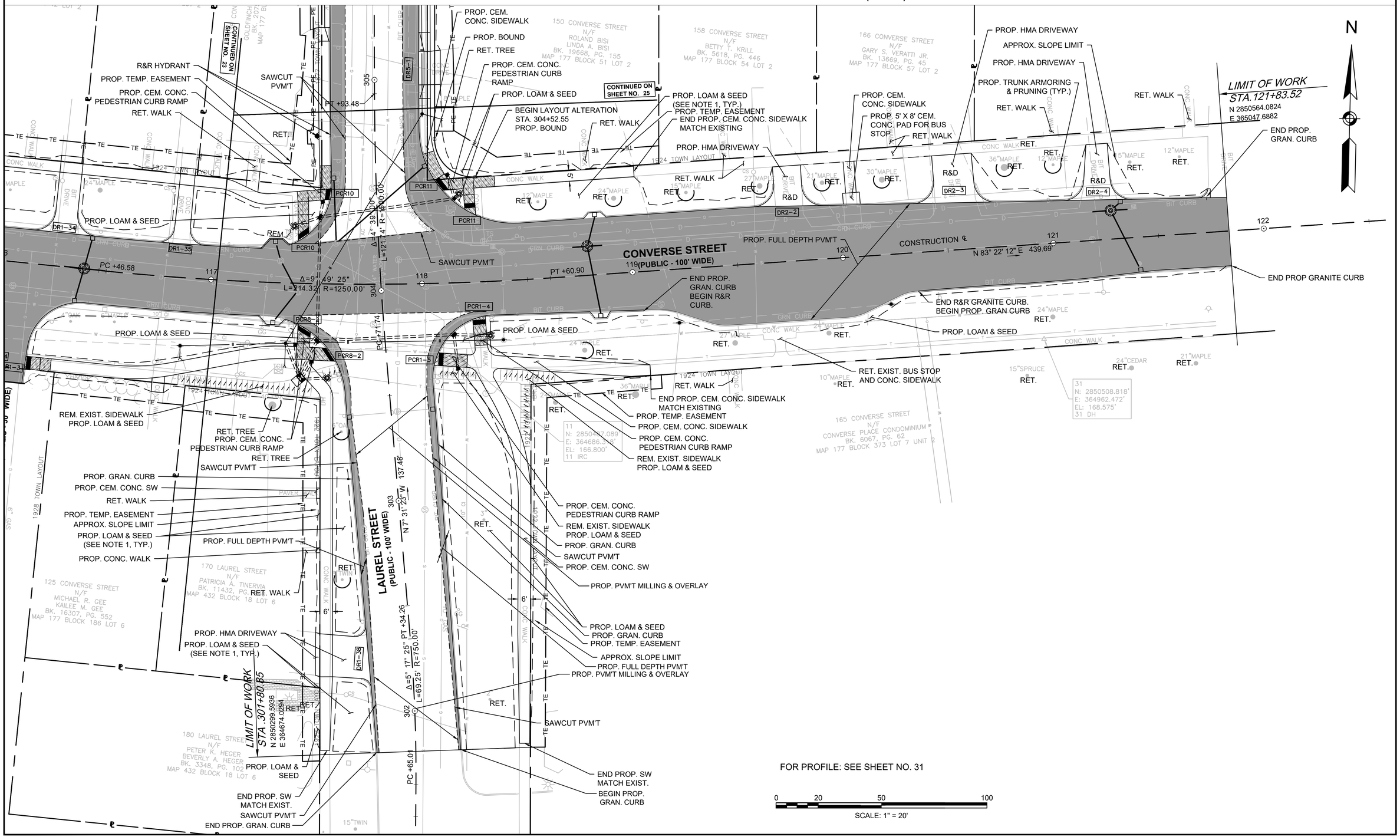
PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	24	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:11 PM



FOR PROFILE: SEE SHEET NO. 31

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 58

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68-79

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TRUNK ARMORING & PRUNING

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	25	198
PROJECT FILE NO.	608881		

CONSTRUCTION PLANS

20170404A10_HPN01.DWG Plotted on 23-Jun-2025 5:12 PM

N

EDSON STREET
(PUBLIC - 50' WIDE)

1928 TOWN LAYOUT

LAUREL STREET
(PUBLIC - 100' WIDE)

CONVERSE STREET
(PUBLIC - 100' WIDE)

BENEDICT TERRACE
(PUBLIC - VARIABLE WIDTH)

HARWICH ROAD
(PUBLIC - VARIABLE WIDTH)

1909 TOWN LAYOUT

PC +46.58

PC +71.74

PT +93.48

PI +60.90

L=214.32'
R=250.00'
Δ=9° 49' 25"

L=121.74'
R=175.00'
Δ=4° 39' 00"

N 7° 31' 23" W 137.48'

N 2° 52' 23" W 302.79'

CONTINUED ON SHEET NO. 23

CONTINUED ON SHEET NO. 24

FOR PROFILE: SEE SHEET NO. 32

0 20 50 100
SCALE: 1" = 20'

LIMIT OF WORK
STA. 307+96.27
N 2850912.6583
E 364624.7232

BEGIN PROP. GRAN. CURB
MEET EXIST. SW
APPROX. SLOPE LIMIT
PROP. TRUNK ARMORING & PRUNING (TYP.)
PROP. LOAM & SEED
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
END PROP GRAN. CURB
307+96.27
PROP. PED. CURB RAMP
PROP. TEMP. EASEMENT
MEET EXIST. SW
BEGIN PROP. GRAN. CURB

LIMIT OF PVM'T MILLING & OVERLAY
SAWCUT PVM'T
END PROP. GRAN. CURB
MEET EXIST. SW
PROP. LOAM & SEED
PROP. CEM. CONC. SIDEWALK
PROP. PERM. EASEMENT
PROP. CONC. SIDEWALK PANEL FOR RESIDENTIAL CONNECTION (TYP.)
PROP. HMA DRIVEWAY
PROP. TEMP. EASEMENT
RET. BIT. DRIVEWAY
PROP. CEM. CONC. DRIVEWAY
PROP. PERM. EASEMENT
PROP. GRAN. CURB
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
RET. WALK
PROP. FULL DEPTH PVM'T
PROP. PVM'T MILLING & OVERLAY
PROP. CEM. CONC. SIDEWALK
SAWCUT PVM'T
PROP. PED. CURB RAMP
PROP. G.C.
REM.
PROP. CEM. CONC. DRIVEWAY
END LAYOUT ALTERATION STA. 305+50.25 PROP. BOUND
PROP. HMA DRIVEWAY
RET. BIT DRIVEWAY
PROP. GUY ANCHOR
RET. DRIVEWAY
RET. TREE
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
APPROX. SLOPE LIMIT
MEET EXIST. SW
RET. TREE
END PROP. GRAN. CURB
RET. WALK
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
PROP. TEMP. EASEMENT
PROP. LOAM & SEED
MEET EXIST. SW
BEGIN PROP. GRAN. CURB

128 LAUREL STREET N/F JACOB BULLOCK DONALD ANDRES BK. 24723, PG.159 MAP 432 BLOCK 12 LOT 2

103 BIRCHWOOD AVENUE N/F JEREMY DESJARDINS–SMITH BK. 23468, PG. 65 MAP 75 BLOCK 69 LOT 2

121 LAUREL STREET N/F PETER S. BENTON BETSY BRIGHAM–BENTON BK. 11812, PG. 212 MAP 432 BLOCK 156 LOT 2

140 LAUREL STREET N/F JERRY W. ROBERTS DONNA L. ROBERTS BK. 5429, PG. 593 MAP 177 BLOCK 48 LOT 2

138 CONVERSE STREET N/F GOLDFINCH HOLDINGS LLC BK. 27252, PG. 214 MAP 177 BLOCK 48 LOT 2

132 CONVERSE STREET N/F SEAN GOODWIN CAROLYN GOODWIN BK. 22415, PG. 195 MAP 177 BLOCK 45 LOT 2

128 CONVERSE STREET N/F MOUSTAFA IBRAHIM TAHOUN TRUSTEE EHDAA ALI TAHOUN TRUSTEE MOUSTAFA TAHOUN TRUSTEE BK. 24457, PG. 585 MAP 177 BLOCK 42 LOT 2

147 LAUREL STREET N/F MARY ELIZABETH VAHADJI BK. 23621, PG. 311 MAP 432 BLOCK 159 LOT 6

137 LAUREL STREET N/F VICTORIA LEO IAN FLICK BK. 24674, PG. 108 MAP 432 BLOCK 159 LOT 5

150 CONVERSE STREET N/F ROLAND BISI LINDA A. BISI BK. 19668, PG. 155 MAP 177 BLOCK 51 LOT 2

158 CONVERSE STREET N/F BETTY J. KRILL BK. 5618, PG. 44 MAP 177 BLOCK 54 LOT 2

170 LAUREL STREET N/F PATRICIA A. TINERVIA

N: 2850487.089'
E: 364686.318'
EL: 166.800'
11 IRC

N: 2850857.920'
E: 364609.941'
EL: 169.229'

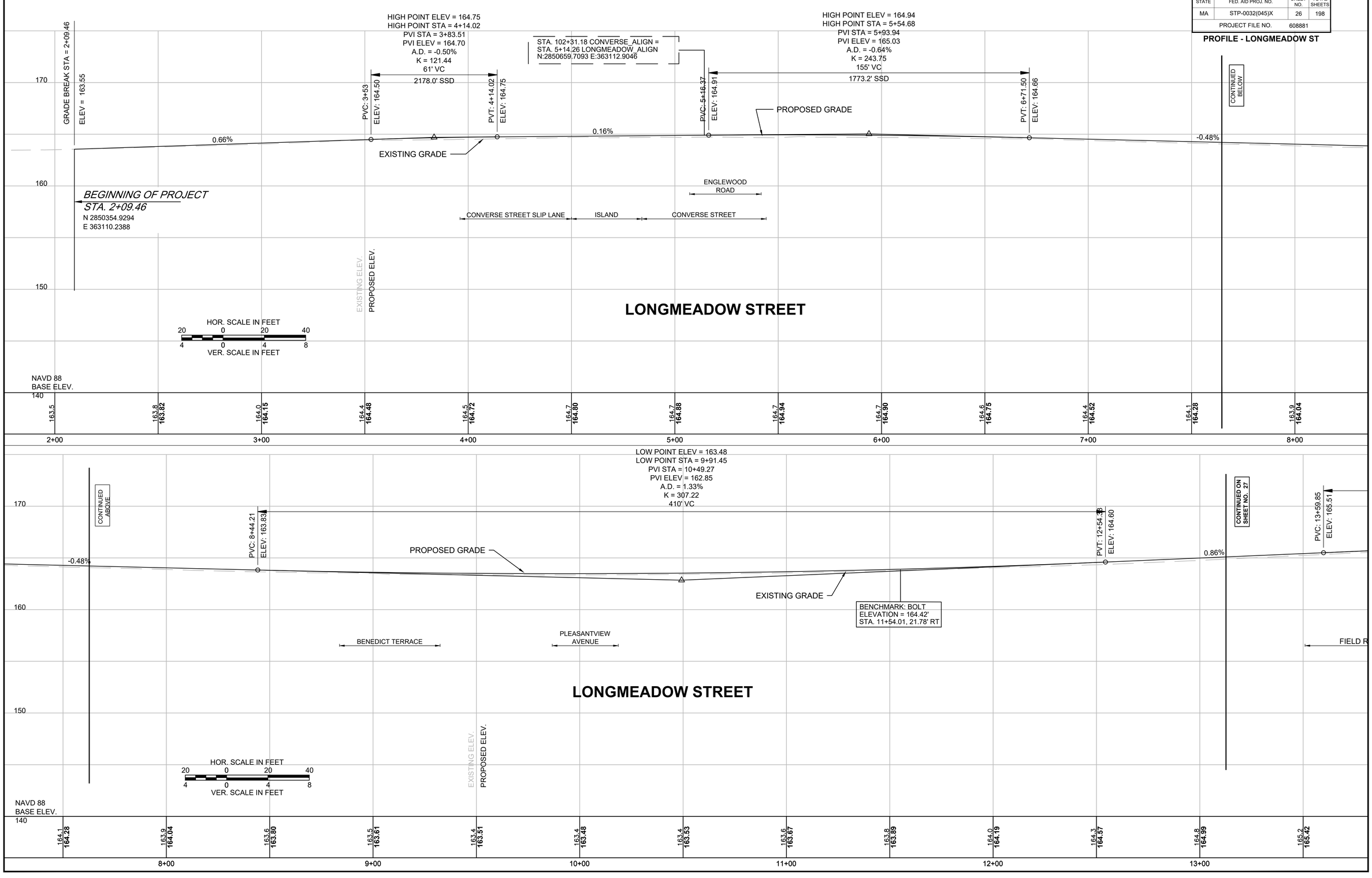
FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 13-25

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	26	198
PROJECT FILE NO.	608881		

PROFILE - LONGMEADOW ST

20170404A10_PRO01_LONGMEADOW ST.DWG Plotted on 17-Jun-2025 5:14 PM



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	27	198
PROJECT FILE NO.	608881		

PROFILE - LONGMEADOW ST

20170404A10_PRO01_LONGMEADOW ST.DWG Plotted on 17-Jun-2025 5:14 PM

LOW POINT ELEV = 165.51
LOW POINT STA = 13+59.85
PVI STA = 13+99.73
PVI ELEV = 165.85
A.D. = 0.11%
K = 740.91
80' VC

HIGH POINT ELEV = 168.00
HIGH POINT STA = 16+37.92
PVI STA = 15+96.73
PVI ELEV = 167.74
A.D. = -0.35%
K = 234.61
82' VC
3114.1' SSD

PVC: 13+59.85
ELEV: 165.51
PVT: 14+39.61
ELEV: 166.23
PVC: 15+55.53
ELEV: 167.35
PVT: 16+37.92
ELEV: 168.00

0.86%
0.96%
0.61%
PROPOSED GRADE
EXISTING GRADE

HIGH POINT ELEV = 168.92
HIGH POINT STA = 18+64.25
PVI STA = 18+09.64
PVI ELEV = 169.05
A.D. = -0.78%
K = 246.34
192' VC
PVC: 17+13.46
ELEV: 168.46
PVT: 19+05.82
ELEV: 168.89
1478.1' SSD

CONTINUED ON SHEET NO. 26
CONTINUED BELOW

170
160
150
140

FIELD ROAD
WOODLAWN PLACE

LONGMEADOW STREET

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

NAVD 88
BASE ELEV.

EXISTING ELEV.
PROPOSED ELEV.

13+00	14+00	15+00	16+00	17+00	18+00	19+00
164.8 / 164.99	165.2 / 165.42	165.7 / 165.86	166.2 / 166.33	166.7 / 166.81	167.2 / 167.29	167.6 / 167.73
168.0 / 168.07	168.3 / 168.38	168.5 / 168.66	168.7 / 168.84	168.7 / 168.92	168.7 / 168.89	

CONTINUED ABOVE

HIGH POINT ELEV = 168.48
HIGH POINT STA = 21+45.21
PVI STA = 22+03.01
PVI ELEV = 168.38
A.D. = -0.02%
K = 6906.85
116' VC
64532.7' SSD

HIGH POINT ELEV = 168.20
HIGH POINT STA = 22+99.48
PVI STA = 23+24.22
PVI ELEV = 168.16
A.D. = -0.25%
K = 196.05
49' VC
4300.4' SSD

LOW POINT ELEV = 167.87
LOW POINT STA = 24+06.32
PVI STA = 23+87.25
PVI ELEV = 167.88
A.D. = 0.39%
K = 97.19
38' VC

STA. 24+88.42 LON
STA. 200+00.00 LO
N:2852601.3818 E:3

PVC: 21+45.21
ELEV: 168.48
PVT: 22+60.81
ELEV: 168.28
PVC: 22+99.48
ELEV: 168.20
PVT: 23+48.96
ELEV: 168.05
PVC: 23+68.18
ELEV: 167.97
PVT: 24+06.32
ELEV: 167.87

PROPOSED GRADE
EXISTING GRADE
-0.17%
-0.19%
-0.44%

CONTINUED ON SHEET NO. 28

170
160
150
140

FERNLEAF AVENUE

LONGMEADOW STREET

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

EXISTING ELEV.
PROPOSED ELEV.

NAVD 88
BASE ELEV.

18+00	19+00	20+00	21+00	22+00	23+00	24+00
168.7 / 168.84	168.7 / 168.92	168.7 / 168.89	168.6 / 168.81	168.6 / 168.73	168.5 / 168.64	168.4 / 168.56
168.3 / 168.47	168.2 / 168.39	168.2 / 168.30	168.0 / 168.20	167.9 / 168.05	167.7 / 167.88	

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	28	198
PROJECT FILE NO.	608881		

PROFILE
LONGMEADOW ST/COLUMBUS AVE

HIGH POINT ELEV = 168.20
HIGH POINT STA = 22+99.48
PVI STA = 23+24.22
PVI ELEV = 168.16
A.D. = -0.25%
K = 196.05
49' VC
4300.4' SSD

PVC: 22+99.48
ELEV: 168.20

PVT: 23+48.96
ELEV: 168.05

-0.44%

LOW POINT ELEV = 167.87
LOW POINT STA = 24+06.32
PVI STA = 23+87.25
PVI ELEV = 167.88
A.D. = 0.39%
K = 97.19
38' VC

PVC: 23+68.18
ELEV: 167.97

CONTINUED ON SHEET NO. 27

PVT: 24+06.32
ELEV: 167.87

STA. 24+88.42 LONGMEADOW_ALIGN =
STA. 200+00.00 LONGMEADOW_ALIGN
N:2852601.3818 E:362792.3173

-0.05%

PVC: 24+97.03
ELEV: 167.83

STA. 25+10.99 LONMEADOW_ALIGN =
STA. 400+00.00 WESTERN_ALIGN
N:2852622.4020 E:362784.0838

HIGH POINT ELEV = 167.83
HIGH POINT STA = 24+97.03
PVI STA = 25+98.37
PVI ELEV = 167.79
A.D. = -4.49%
K = 45.19
203' VC
341.9' SSD

LONGMEADOW STREET

EXISTING GRADE

PROPOSED GRADE

PVT: 26+99.70
ELEV: 163.20

LOW POINT ELEV = 158.64
LOW POINT STA = 28+05.17
PVI STA = 27+71.54
PVI ELEV = 159.94
A.D. = 0.68%
K = 99.26
67' VC

PVC: 27+37.92
ELEV: 161.46

-4.53%

PVT: 28+05.17
ELEV: 158.64

HIGH POINT ELEV = 156.15
HIGH POINT STA = 28+69.84
PVI STA = 29+07.66
PVI ELEV = 154.70
A.D. = -0.13%
K = 564.58
76' VC
8091.1' SSD

PVC: 28+69.84
ELEV: 156.15

-3.85%

PVT: 29+45.49
ELEV: 153.19

WESTERN DRIVE

FOREST GLEN ROAD

COLUMBUS AVE

CONTINUED BELOW

EXISTING ELEV.

PROPOSED ELEV.

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

NAVD 88
BASE ELEV.

168.0 / 168.20	167.9 / 168.05	167.7 / 167.88	167.7 / 167.85	167.7 / 167.83	167.4 / 167.50	166.5 / 166.61	165.1 / 165.17	163.0 / 163.18	160.8 / 160.92	158.7 / 158.85	156.7 / 156.92	154.8 / 154.98	152.8
23+00		24+00		25+00		26+00		27+00		28+00		29+00	

HIGH POINT ELEV = 156.15
HIGH POINT STA = 28+69.84
PVI STA = 29+07.66
PVI ELEV = 154.70
A.D. = -0.13%
K = 564.58
76' VC
8091.1' SSD

PVC: 28+69.84
ELEV: 156.15

PVT: 29+45.49
ELEV: 153.19

PROPOSED GRADE

COLUMBUS AVE

HIGH POINT ELEV = 149.19
HIGH POINT STA = 30+45.79
PVI STA = 30+73.21
PVI ELEV = 148.09
A.D. = -0.37%
K = 146.30
55' VC
2906.0' SSD

FOREST PARK ENTRANCE

-3.99%

PVC: 30+45.79
ELEV: 149.19

PVT: 31+00.64
ELEV: 146.90

EXISTING GRADE

-4.36%

GRADE BREAK STA = 31+98.48
ELEV = 142.63

END OF PROJECT
STA. 32+50.00
N 2853269.4291
E 362427.6962

CONTINUED ABOVE

EXISTING ELEV.

PROPOSED ELEV.

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

NAVD 88
BASE ELEV.

156.7 / 156.92	154.8 / 154.98	152.8 / 153.01	150.9 / 151.01	148.9 / 149.02	146.8 / 146.93	144.6 / 144.74	142.6	140.6
29+00		30+00		31+00		32+00		33+00

Plotted on 17-Jun-2025 5:14 PM

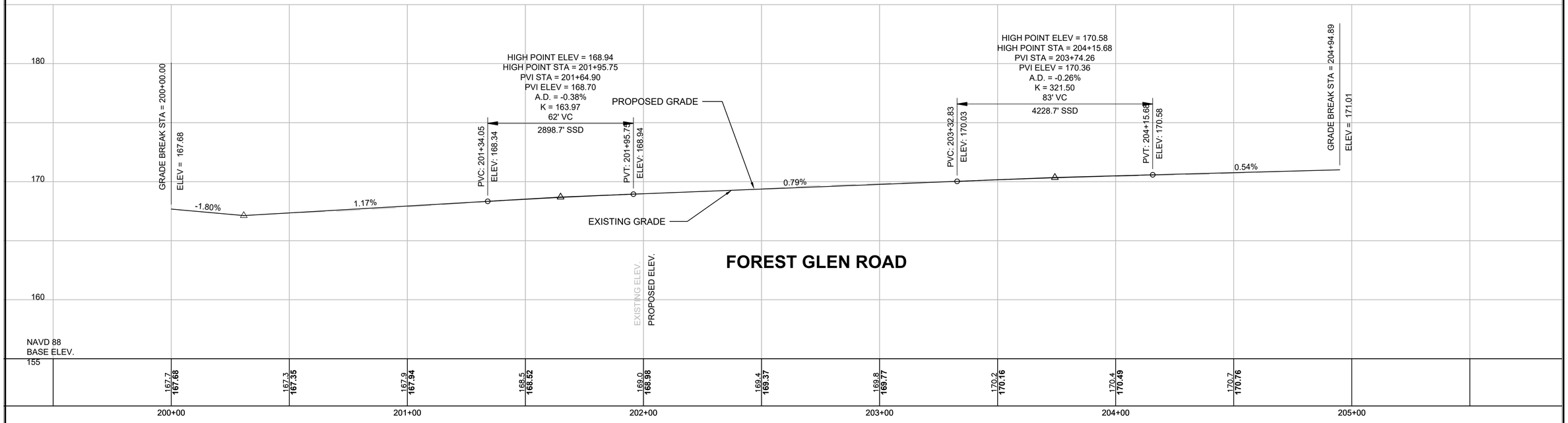
20170404A10_PRO01_LONGMEADOW ST.DWG

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	29	198
PROJECT FILE NO.	608881		

PROFILE - FOREST GLEN RD

FOR CONSTRUCTION PLANS:
SEE SHEET NO. 20



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

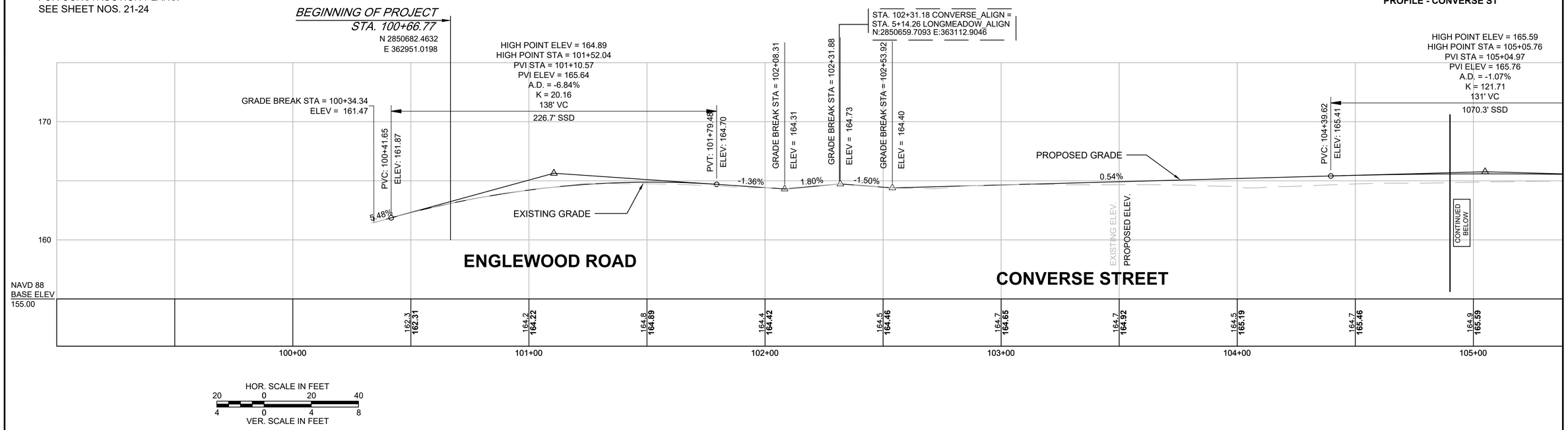
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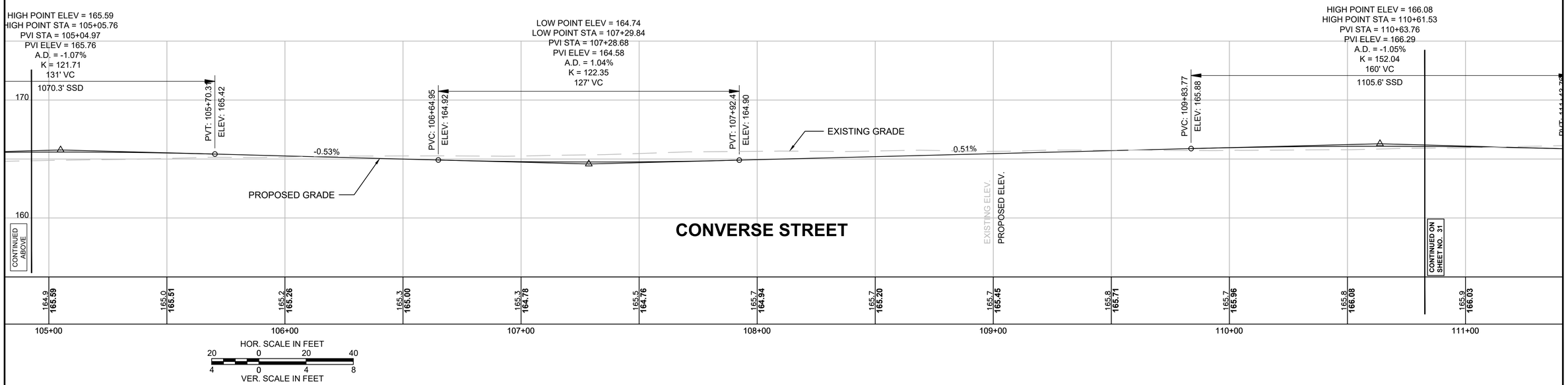
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	30	198
PROJECT FILE NO.	608881		

PROFILE - CONVERSE ST

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 21-24



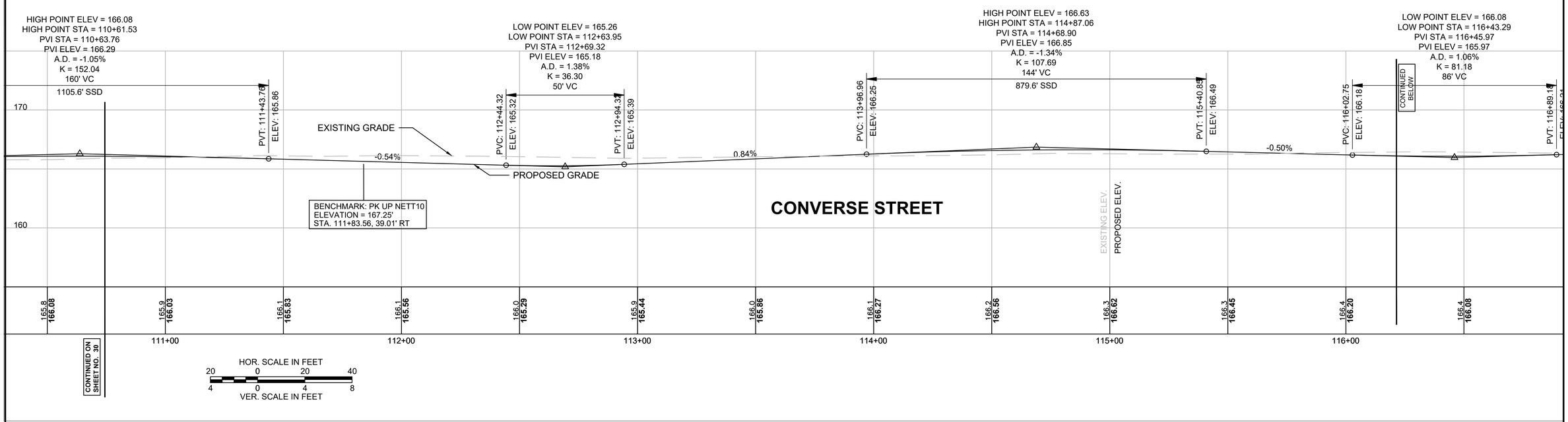


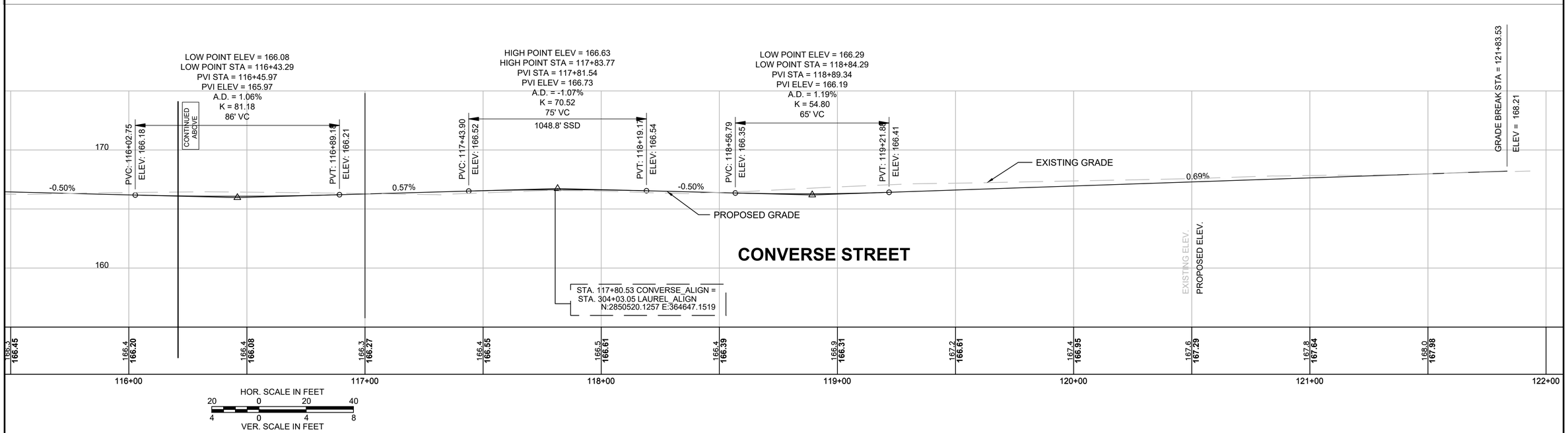
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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	31	198
PROJECT FILE NO.	608881		

PROFILE - CONVERSE ST





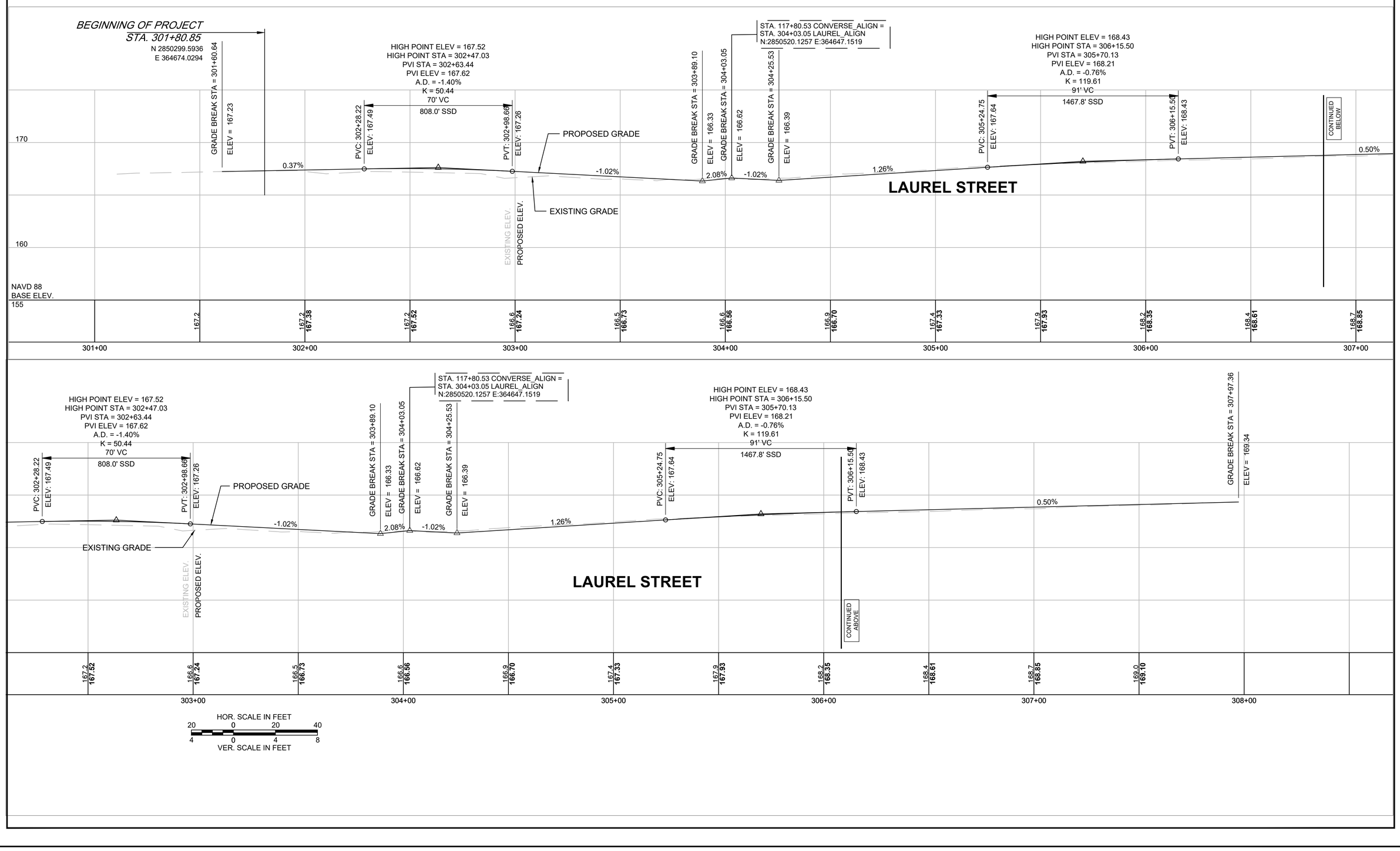
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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	32	198
PROJECT FILE NO.	608881		

PROFILE - LAUREL ST

FOR CONSTRUCTION PLANS:
SEE SHEET NO. 25



20170404A10_PR001_CONVERSE ST.DWG Plotted on 17-Jun-2025 5:18 PM

ALIGN_LONG CONSTRUCTION BASELINE DATA
ALIGN_CONV_ CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2850145.481	363107.662		N0°42'17"E 433.63'	4+33.63	2850579.082	363112.996
C1	4+33.63	2850579.082	363112.996	R=3000.00' Δ=2°33'10" L=133.66' T=66.84'		5+67.29	2850712.724	363111.663
L3	5+67.29	2850712.724	363111.663		N1°50'52"W 145.93'	7+13.22	2850858.579	363106.957
L2	100+00.00	2850685.470	362884.318		S87°25'09"E 134.51'	101+34.51	2850679.413	363018.688
C2	101+34.51	2850679.413	363018.688	R=300.00' Δ=20°40'26" L=108.25' T=54.72'		102+42.76	2850655.345	363123.626
L7	102+42.76	2850655.345	363123.626		S66°44'43"E 102.98'	103+45.74	2850614.686	363218.241

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C100	14.89	85°18'03"	10.00	9.21
C101	15.24	87°20'07"	10.00	9.55
C102	14.61	83°41'47"	10.00	8.96
C103	16.13	92°24'07"	10.00	10.43
C104	14.74	84°26'36"	10.00	9.07
C105	15.32	87°45'34"	10.00	9.62
C106	12.10	86°41'10"	8.00	7.55
C107	16.48	94°26'44"	10.00	10.81
C108	119.59	97°52'58"	70.00	80.36
C109	76.41	54°23'15"	80.50	41.36
C110	61.45	78°14'11"	45.00	36.59
C111	49.44	94°25'43"	30.00	32.41

CURVE TABLE

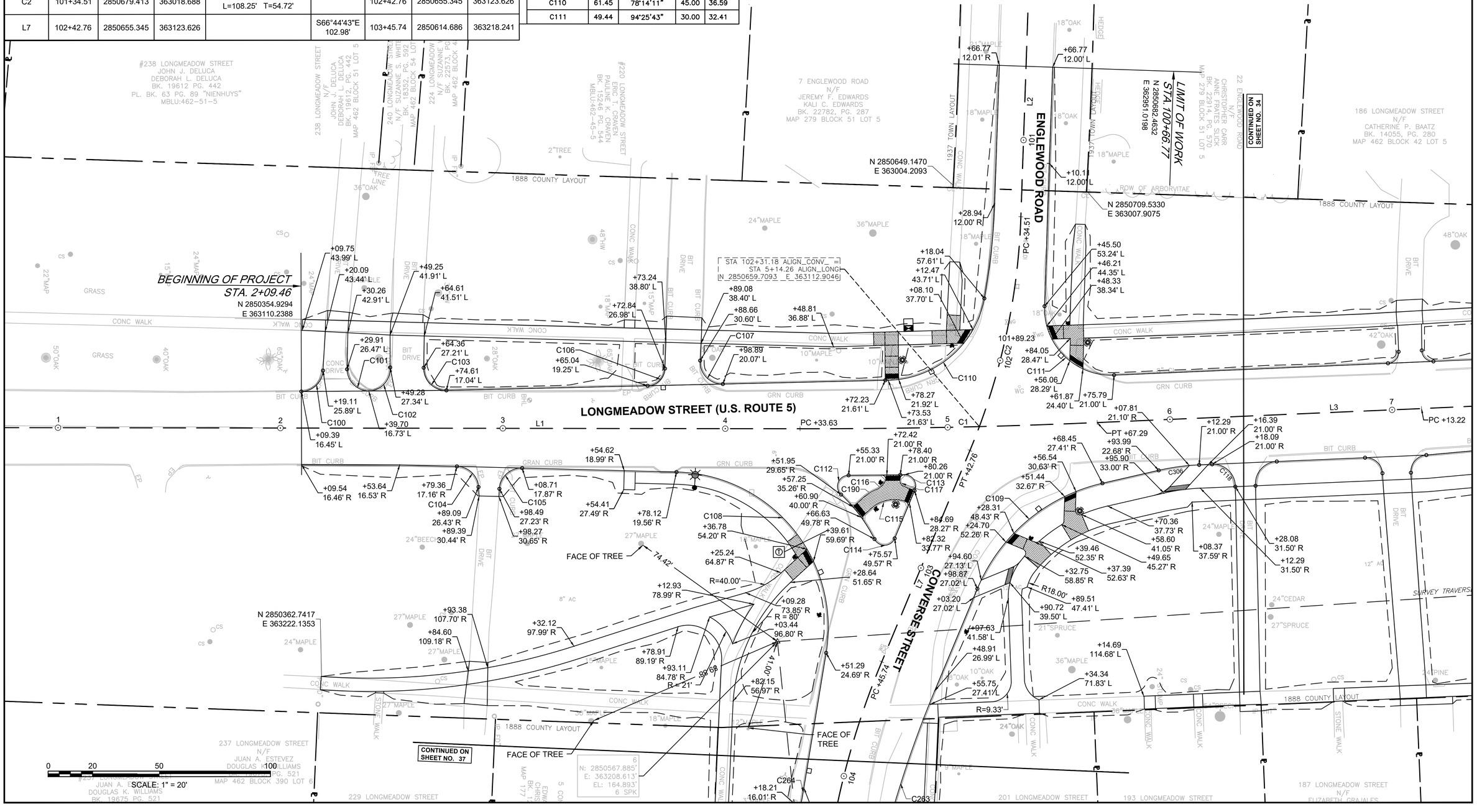
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C112	11.94	136°50'28"	5.00	12.64
C113	9.90	113°26'25"	5.00	7.62
C114	11.41	130°47'36"	5.00	10.92
C115	16.74	63°56'22"	15.00	9.36
C116	7.54	57°37'46"	7.50	4.13
C117	2.44	69°56'19"	2.00	1.40
C118	15.89	91°01'05"	10.00	10.18
C190	7.44	19°50'03"	21.50	3.76
C306	18.40	10°29'20"	100.50	9.22

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	33	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

N



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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	34	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

ALIGN_LONG CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	5+67.29	2850712.724	363111.663		N1°50'52"W 145.93'	7+13.22	2850858.579	363106.957
C3	7+13.22	2850858.579	363106.957	R=4500.00' Δ=6°38'01" L=521.00' T=260.79'		12+34.22	2851377.170	363060.085
L4	12+34.22	2851377.170	363060.085		N8°28'53"W 150.70'	13+84.92	2851526.220	363037.858
C4	13+84.92	2851526.220	363037.858	R=3000.00' Δ=4°19'52" L=226.78' T=113.44'		16+11.70	2851749.042	362995.969

CURVE TABLE

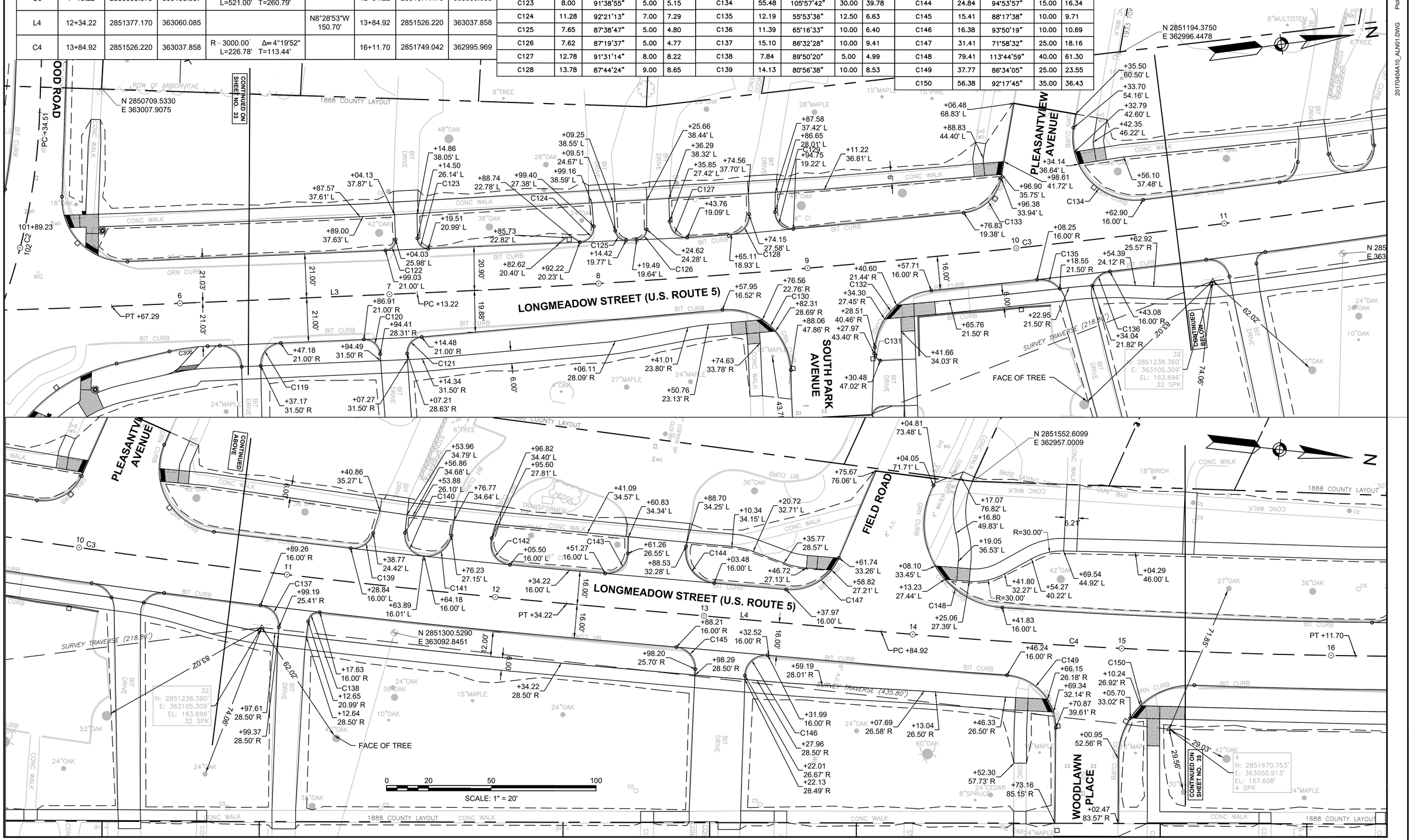
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C119	15.49	88°44'53"	10.00	9.78
C120	11.59	88°31'35"	7.50	7.31
C121	11.69	89°17'49"	7.50	7.41
C122	7.81	89°32'41"	5.00	4.96
C123	8.00	91°38'55"	5.00	5.15
C124	11.28	92°21'13"	7.00	7.29
C125	7.65	87°38'47"	5.00	4.80
C126	7.62	87°19'37"	5.00	4.77
C127	12.78	91°31'14"	8.00	8.22
C128	13.78	87°44'24"	9.00	8.65

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C129	13.45	96°19'59"	8.00	8.94
C130	48.83	93°15'03"	30.00	31.75
C131	41.46	79°10'49"	30.00	24.81
C132	26.09	74°45'06"	20.00	15.28
C133	55.48	105°57'42"	30.00	39.78
C134	12.19	55°53'36"	12.50	6.63
C135	11.39	65°16'33"	10.00	6.40
C136	15.10	86°32'28"	10.00	9.41
C137	7.84	89°50'20"	5.00	4.99
C138	13.14	89°47'24"	9.00	8.53
C139	14.13	80°56'38"	10.00	8.53

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C140	15.82	90°37'48"	10.00	10.11
C141	18.01	86°00'55"	12.00	11.19
C142	17.54	100°28'20"	10.00	12.02
C143	16.26	93°09'20"	10.00	10.57
C144	24.84	94°53'57"	15.00	16.34
C145	15.41	88°17'38"	10.00	9.71
C146	16.38	93°50'19"	10.00	10.69
C147	31.41	71°58'32"	25.00	18.16
C148	79.41	113°44'59"	40.00	61.30
C149	37.77	86°34'05"	25.00	23.55
C150	56.38	92°17'45"	35.00	36.43



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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	35	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

ALIGN_LONG CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	16+11.70	2851749.042	362995.969		N12°48'45"W 738.31'	23+50.00	2852468.965	362832.240

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C151	22.42	85°38'39"	15.00	13.90
C152	12.43	89°00'04"	8.00	7.86
C153	15.26	87°26'39"	10.00	9.56
C154	16.03	91°51'04"	10.00	10.33
C155	10.82	77°28'37"	8.00	6.42
C156	25.33	96°45'27"	15.00	16.88
C157	15.42	88°19'40"	10.00	9.71
C158	15.52	88°56'10"	10.00	9.82
C159	12.62	72°17'32"	10.00	7.30

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C160	26.67	101°51'21"	15.00	18.48
C161	15.89	91°03'42"	10.00	10.19
C162	16.16	92°36'03"	10.00	10.46
C163	18.54	88°31'04"	12.00	11.69
C164	16.02	91°46'20"	10.00	10.31
C165	56.94	116°30'51"	28.00	45.26
C166	23.82	90°59'29"	15.00	15.26
C167	38.19	62°31'30"	35.00	21.25
C168	22.80	87°06'06"	15.00	14.26
C169	15.21	87°08'49"	10.00	9.51

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C170	14.59	83°37'19"	10.00	8.94
C171	22.37	85°26'21"	15.00	13.85
C172	15.37	88°02'48"	10.00	9.66
C173	15.21	87°08'12"	10.00	9.51
C174	13.34	76°25'01"	10.00	7.87
C175	13.05	74°47'33"	10.00	7.64
C176	11.21	80°15'18"	8.00	6.74
C177	15.82	90°36'53"	10.00	10.11
C178	14.01	80°15'49"	10.00	8.43
C179	3.45	79°07'16"	2.50	2.07

N 2851552.6099
E 362957.0009

CONTINUED ON SHEET NO. 34

CONTINUED BELOW

CONTINUED ABOVE

CONTINUED ON SHEET NO. 36

LONGMEADOW STREET (U.S. ROUTE 5)

WOODLAWN PLACE

FERNLEAF AVENUE

WESTERN DRIVE

SURVEY TRAVERSE (437.54')

SURVEY TRAVERSE (525.85')

FACE OF TREE

4
N: 2851670.753'
E: 363050.913'
EL: 167.608'
4 SPK

3
N: 2852097.609'
E: 362954.819'
EL: 169.163'
3 SPK

2
N: 2852582.979'
E: 362752.508'
EL: 169.050'
2 IRC

STA 24+88.42 ALIGN_LONG =
STA 200+00.00 ALIGN_FOREST
N 2852601.3818 E 362792.3

N 2852568.2740
E 362750.9104

N 2852642.1523
E 362832.4053

N 2852637.8020
E 362851.3154

N 2852353.3350
E 362934.1002

N 2852545.2040
E 362885.8235

PC +50.00

SCALE: 1" = 20'

0 20 50 100

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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	36	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

20170404A10_ALN01.DWG Plotted on 23-Jun-2025 5:26 PM

LONGMEADOW STREET (U.S. ROUTE 5)
COLUMBUS AVENUE (U.S. ROUTE 5)
FOREST GLEN ROAD
WESTERN DRIVE
LONGMEADOW SPRINGFIELD
STA 24+88.42 ALIGN_LONG = STA 200+00.00 ALIGN_FOREST N 2852601.3818 E 362792.3173
STA 25+10.99 ALIGN_LONG = STA 400+00.00 ALIGN_WESTERN N 2852622.4020 E 362784.0838
N 2852568.2740 E 362750.9104
N 2852668.7828 E 362714.9219
N 2852545.2040 E 362885.8235
N 2852642.1523 E 362832.4053
N 2852637.8020 E 362851.3154
N 2853221.2270 E 362401.9513
N 2853265.5350 E 362480.9160
N 2853269.4291 E 362427.6962
END OF PROJECT STA. 32+50.00
1958 SHLO NO ACCESS
CONTINUED ON SHEET NO. 35
CONTINUED ON SHEET NO. 37
CONTINUED ABOVE
CONTINUED BELOW
EDGE OF TREE
EDGE OF FENCE
EDGE OF TRANSFORMER PAD
SURVEY TRAVERSE (525.85')
SURVEY TRAVERSE (629.74')
SURVEY TRAVERSE (595.48')
1888 COUNTY LAYOUT
1933 TOWN/CITY LAYOUT
299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 461/PG 585
MAUREEN P. MULCAHY BK 21249, PG. 95 MAP 462 BLOCK 3 LOT 1
PHILLIP O'BRIEN ANGELA O'BRIEN BK 24548, PG.200 MAP 462 BLOCK 327 LOT 1
11 FOREST GLEN ROAD N/F YAKIM RABIH G.L. BK 24284 PG. 61 MAP 327 BLOCK 3 LOT 1
17 LONGMEADOW STREET N/F PHILLIP O'BRIEN ANGELA O'BRIEN BK. 24548, PG-200 MAP 462 BLOCK 327 LOT 1
PC +50.00
PT +41.33
L6
C5
C180
C181
C182
C183
C184
C185
C186
C187
C188
C189
R=20.0
SCALE: 1" = 20'

ALIGN_LONG CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	23+50.00	2852468.965	362832.240	R=1000.00' Δ=16°41'30" L=291.32' T=146.70'		26+41.33	2852739.690	362727.459
L6	26+41.33	2852739.690	362727.459		N29°30'15"W 633.35'	32+74.68	2853290.909	362415.541

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C180	7.77	89°00'53"	5.00	4.91
C181	50.38	115°27'16"	25.00	39.59
C182	40.09	57°23'31"	40.03	21.91
C183	35.54	58°10'56"	35.00	19.47
C184	51.95	129°24'08"	23.00	48.66
C185	20.75	29°43'32"	40.00	10.62
C186	46.18	66°08'40"	40.00	26.05
C187	7.00	183°33'38"	2.18	70.28
C188	6.69	173°24'07"	2.21	38.34
C189	24.33	55°46'03"	25.00	13.23

ALIGN_CONV_ CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	103+45.74	2850614.686	363218.241	R=362.32' Δ=20°03'41" L=126.86' T=64.09'		104+72.60	2850585.813	363341.108

ALIGN_FOREST CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	200+00.00	2852601.382	362792.317		S77°21'29"E 760.18'	207+60.18	2852435.010	363534.070

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C200	15.00	85°58'03"	10.00	9.32
C201	11.66	89°02'41"	7.50	7.38
C202	12.60	96°14'07"	7.50	8.36
C203	7.29	83°34'12"	5.00	4.47
C204	15.71	90°00'00"	10.00	10.00
C205	11.58	88°28'48"	7.50	7.30
C206	15.85	90°47'21"	10.00	10.14
C263	112.01	12°50'09"	500.00	56.24
C264	9.52	1°49'04"	300.00	4.76
C265	28.58	4°19'40"	378.33	14.30
C266	38.37	4°23'50"	500.00	19.20

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C207	11.78	90°00'00"	7.50	7.50
C208	11.74	89°42'57"	7.50	7.46
C209	15.76	90°17'02"	10.00	10.05
C210	39.79	91°11'58"	25.00	25.53
C211	39.46	90°26'27"	25.00	25.19
C212	11.65	88°59'08"	7.50	7.37
C213	11.75	89°46'00"	7.50	7.47
C214	11.52	87°58'24"	7.50	7.24
C215	11.96	91°21'27"	7.50	7.68
C216	11.53	88°05'48"	7.50	7.25

CURVE TABLE

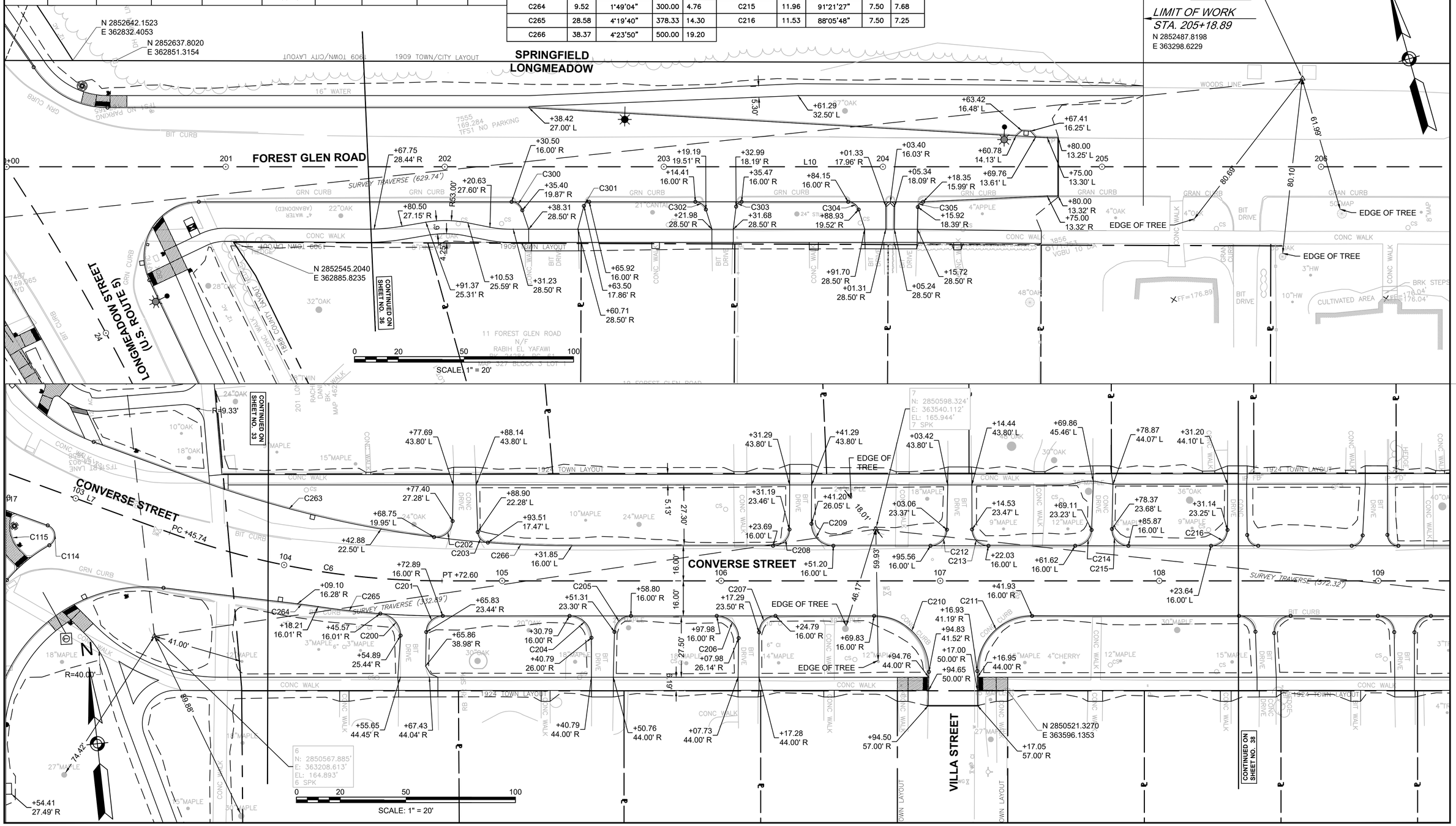
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C300	6.72	76°14'29"	5.05	3.96
C301	3.28	75°15'43"	2.50	1.93
C302	6.35	72°43'20"	5.00	3.68
C303	3.61	82°46'07"	2.50	2.20
C304	6.36	72°50'12"	5.00	3.69
C305	3.76	86°09'00"	2.50	2.34

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	37	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

20170404A10_ALN01.DWG Plotted on 23-Jun-2025 5:33 PM



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	38	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

CURVE TABLE				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C217	7.80	89°21'19"	5.00	4.94
C218	11.51	87°54'50"	7.50	7.23
C219	12.13	92°42'11"	7.50	7.86
C220	7.60	87°05'22"	5.00	4.75
C221	7.86	90°06'35"	5.00	5.01
C222	11.70	89°21'35"	7.50	7.42
C223	11.78	90°00'00"	7.50	7.50
C224	38.83	88°59'25"	25.00	24.56

CURVE TABLE				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C225	39.33	90°08'37"	25.00	25.06
C226	53.43	87°28'23"	35.00	33.49
C227	49.46	94°28'07"	30.00	32.44
C228	15.91	91°09'49"	10.00	10.21
C229	15.37	88°05'20"	10.00	9.67
C230	15.75	90°15'01"	10.00	10.04
C231	15.86	90°53'11"	10.00	10.16
C232	15.89	91°02'18"	10.00	10.18
C233	15.44	88°27'06"	10.00	9.73

CURVE TABLE				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C234	39.31	90°05'59"	25.00	25.04
C235	39.10	89°37'13"	25.00	24.83
C236	15.70	89°58'28"	10.00	10.00
C237	15.65	89°41'14"	10.00	9.95
C238	14.92	85°27'37"	10.00	9.24
C239	11.61	88°43'28"	7.50	7.33
C240	23.25	88°48'16"	15.00	14.69
C241	15.45	88°30'53"	10.00	9.74
C242	11.48	87°42'47"	7.50	7.21

CURVE TABLE				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C243	11.78	90°00'00"	7.50	7.50
C244	15.72	90°03'12"	10.00	10.01
C245	15.70	89°55'59"	10.00	9.99
C246	15.65	89°41'14"	10.00	9.95
C247	39.27	90°00'00"	25.00	25.00
C248	14.92	85°27'37"	10.00	9.24
C249	38.00	87°05'23"	25.00	23.76
C250	11.61	88°43'28"	7.50	7.33
C251	15.71	90°00'00"	10.00	10.00
C252	15.76	90°18'21"	10.00	10.05
C253	11.54	88°07'30"	7.50	7.26
C254	11.97	91°27'18"	7.50	7.69

ALIGN_CONV_ CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	104+72.60	2850585.813	363341.108		S86°48'24"E 1173.98'	116+46.58	2850520.415	364513.270

SCALE: 1" = 20'

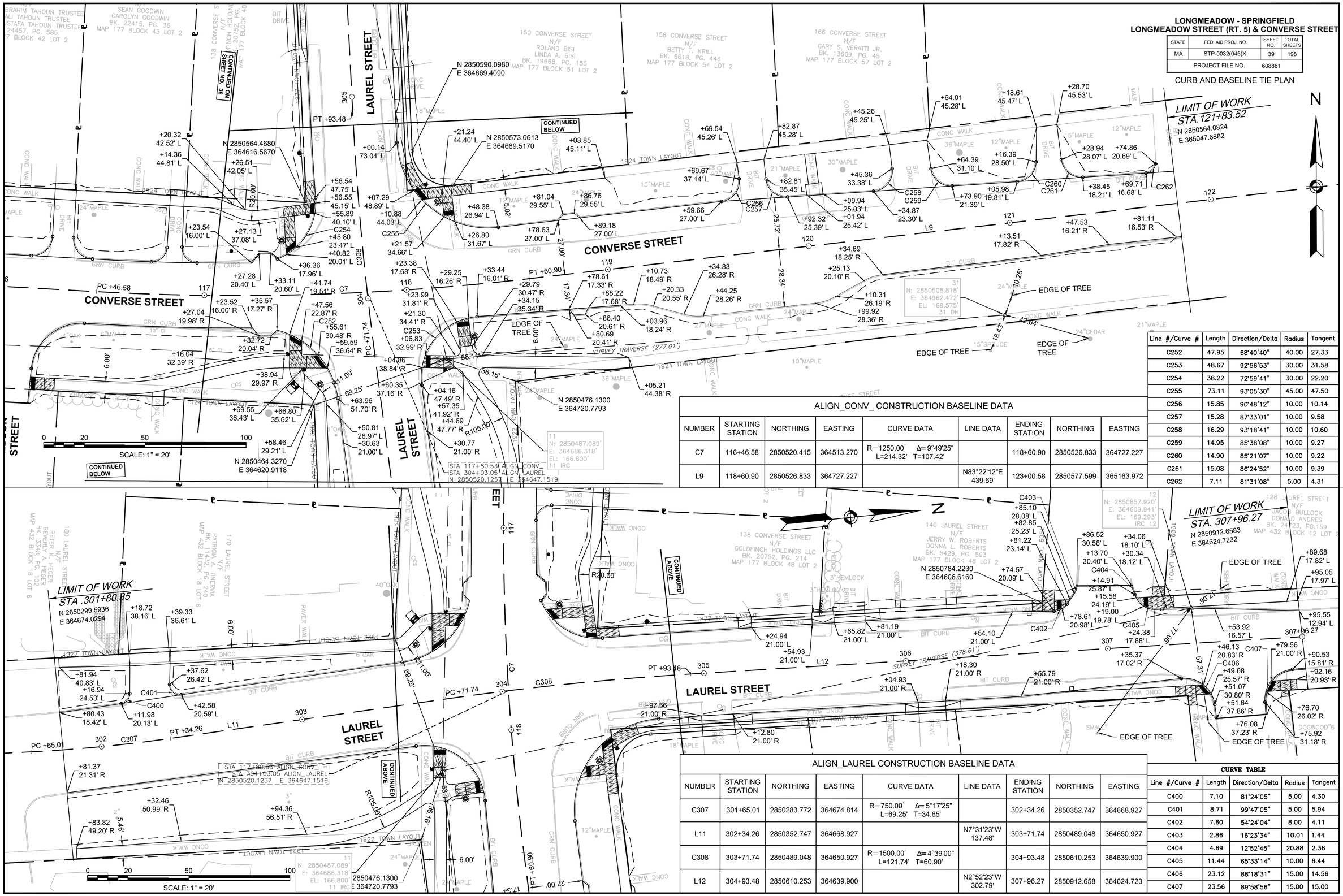
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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	39	198
PROJECT FILE NO.	608881		

CURB AND BASELINE TIE PLAN

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ALIGN_CONV_ CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C7	116+46.58	2850520.415	364513.270	R=1250.00' Δ=9°49'25" L=214.32' T=107.42'		118+60.90	2850526.833	364727.227
L9	118+60.90	2850526.833	364727.227		N83°22'12"E 439.69'	123+00.58	2850577.599	365163.972

ALIGN_LAUREL CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C307	301+65.01	2850283.772	364674.814	R=750.00' Δ=5°17'25" L=69.25' T=34.65'		302+34.26	2850352.747	364668.927
L11	302+34.26	2850352.747	364668.927		N7°31'23"W 137.48'	303+71.74	2850489.048	364650.927
C308	303+71.74	2850489.048	364650.927	R=1500.00' Δ=4°39'00" L=121.74' T=60.90'		304+93.48	2850610.253	364639.900
L12	304+93.48	2850610.253	364639.900		N2°52'23"W 302.79'	307+96.27	2850912.658	364624.723

CURVE TABLE

Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C252	47.95	68°40'40"	40.00	27.33
C253	48.67	92°56'53"	30.00	31.58
C254	38.22	72°59'41"	30.00	22.20
C255	73.11	93°05'30"	45.00	47.50
C256	15.85	90°48'12"	10.00	10.14
C257	15.28	87°33'01"	10.00	9.58
C258	16.29	93°18'41"	10.00	10.60
C259	14.95	85°38'08"	10.00	9.27
C260	14.90	85°21'07"	10.00	9.22
C261	15.08	86°24'52"	10.00	9.39
C262	7.11	81°31'08"	5.00	4.31
C400	7.10	81°24'05"	5.00	4.30
C401	8.71	99°47'05"	5.00	5.94
C402	7.60	54°24'04"	8.00	4.11
C403	2.86	16°23'34"	10.01	1.44
C404	4.69	12°52'45"	20.88	2.36
C405	11.44	65°33'14"	10.00	6.44
C406	23.12	88°18'31"	15.00	14.56
C407	23.56	89°58'56"	15.00	15.00

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	40	198
PROJECT FILE NO.	608881		

GRADING PLAN

20170404A10_GRA01.DWG Plotted on 23-Jun-2025 5:21 PM

BEGINNING OF PROJECT
STA. 2+09.46
N 2850354.9294
E 363110.2388

LONGMEADOW STREET (U.S. ROUTE 5)

ENGLEWOOD ROAD

CONVERSE STREET

LIMIT OF WORK
STA.100+66.77
N 2850682.4632
E 362951.0198

PC +34.51
PT +42.76
PC +45.74

PROP. GRADE BREAK

#238 LONGMEADOW STREET
JOHN J. DELUCA
DEBORAH L. DELUCA
BK. 19612 PG. 442
PL. BK. 63 PG. 89 "NIENHUYS"
MBLU:462-51-5

238 LONGMEADOW STREET
N/F
JOHN J. DELUCA
DEBORAH L. DELUCA
BK. 19612, PG. 442
MAP 462 BLOCK 51 LOT 5

240 LONGMEADOW STREET
N/F SUZANNE S. WHITE
BK. 18352, PG. 592
MAP 462 BLOCK 54 LOT 5

224 LONGMEADOW STREET
N/F SUZANNE WHITE
BK. 22573, Pg. 64
MAP 462 BLOCK 48 LOT 5

#220 LONGMEADOW STREET
ERIC T. CRAVEN
PAULINE K. CRAVEN
BK. 15246 PG. 544
MBLU:462-43-5

7 ENGLEWOOD ROAD
N/F
JEREMY F. EDWARDS
KALI C. EDWARDS
BK. 22782, PG. 287
MAP 279 BLOCK 51 LOT 5

22 ENGLEWOOD ROAD
N/F
CHRISTOPHER CARR
ANNE FRATES SLICK
BK. 22914, PG. 570
MAP 279 BLOCK 51 LOT 5

186 LONGMEADOW STREET
N/F
CATHERINE P. BAATZ
BK. 14055, PG. 280
MAP 462 BLOCK 42 LOT 5

237 LONGMEADOW STREET
N/F
JUAN A. ESTEVEZ
DOUGLAS K. WILLIAMS
BK. 19675, PG. 521
MAP 462 BLOCK 390 LOT 6

229 LONGMEADOW STREET
N/F
JUAN A. ESTEVEZ
DOUGLAS K. WILLIAMS
BK. 19675 PG. 521

201 LONGMEADOW STREET

193 LONGMEADOW STREET

187 LONGMEADOW STREET
N/F
ELIZABETH GRAJALES

1888 COUNTY LAYOUT

CONTINUED ON SHEET NO. 41

CONTINUED ON SHEET NO. 44

SCALE: 1" = 20'
0 20 50 100

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	41	198
PROJECT FILE NO.	608881		

GRADING PLAN

Plotted on 23-Jun-2025 5:23 PM
20170404A10_GRA01.DWG

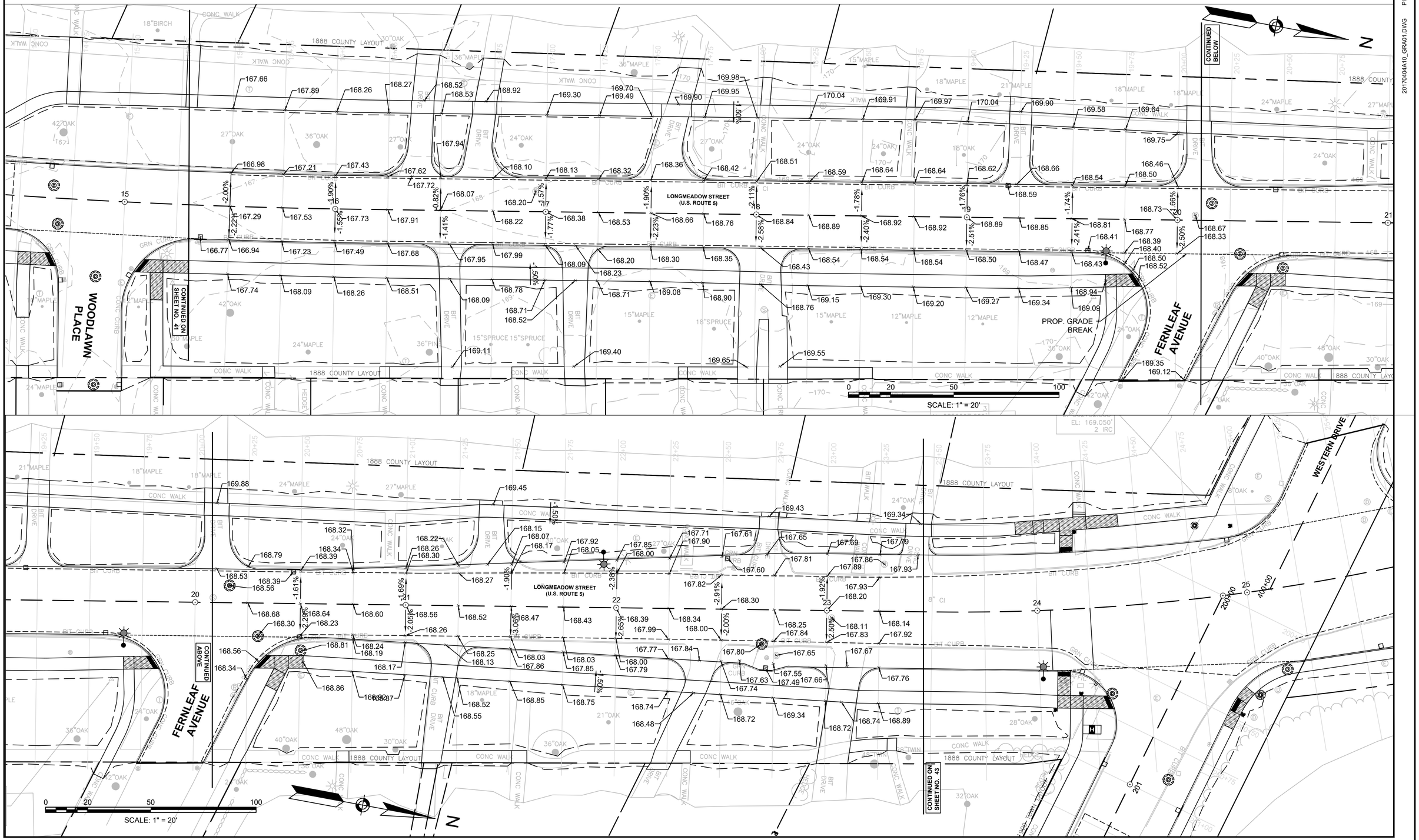


LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	42	198
PROJECT FILE NO.	608881		

GRADING PLAN

20170404A10_GRA01.DWG Plotted on 23-Jun-2025 5:25 PM



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	43	198
PROJECT FILE NO.	608881		

GRADING PLAN

20170404A10_GRA01.DWG Plotted on 23-Jun-2025 5:27 PM

LONGMEADOW STREET
SPRINGFIELD

COLUMBUS AVENUE (U.S. ROUTE 5)

WESTERN DRIVE

FOREST PARK DRIVE

1888 COUNTY LAYOUT

PROP. GRADE BREAK

CONTINUED ON SHEET NO. 42

CONTINUED ABOVE

CONTINUED BELOW

17 LONGMEADOW STREET N/F PHILLIP O'BRIEN ANGELA O'BRIEN BK. 24548, PG.200 MAP 462 BLOCK 327 LOT 1

11 FOREST GLEN ROAD N/F PABLO E. VIVANI BK. 24814, PG. 61 MAP 327 BLOCK 3 LOT 1

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF FOREST PARK BK 461/PG 585

MAUREEN N/F MULCAHY BK. 21249, PG. 95 MAP 462 BLOCK 3 LOT 2

N: 2852582.979'
E: 362752.508'
EL: 169.050'
2 IRC

0 20 50 100
SCALE: 1" = 20'

END OF PROJECT
STA. 32+50.00
N 2853269.4291
E 362427.6962
1958 SHLO NO ACCESS

32+74.68

N: 2853141.740'
E: 362546.640'
EL: 147.500'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	44	198
PROJECT FILE NO.	608881		

GRADING PLAN

20170404A10_GRA01.DWG Plotted on 23-Jun-2025 5:28 PM

CONTINUED ON SHEET NO. 43

SPRINGFIELD
LONGMEADOW

FOREST GLEN ROAD

LIMIT OF WORK
STA. 205+18.89
N 2852487.8198
E 363298.6229

N: 2852511.175'
E: 363378.339'
EL: 172.144'
30 DH

11 FOREST GLEN ROAD
N/F
RABIH EL YAFAWI
BK. 24284, PG. 61
MAP 327 BLOCK 3 LOT 1

CONTINUED ON SHEET NO. 40

CONVERSE STREET

PC +45.74

PT +72.60

N: 2850598.324'
E: 363540.112'
EL: 165.944'
7 SPK

6
N: 2850567.885'
E: 363208.613'
EL: 164.893'
6 SPK

PROP. GRADE BREAK

VILLA STREET

CONTINUED ON SHEET NO. 45

0 20 50 100
SCALE: 1" = 20'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	45	198
PROJECT FILE NO.	608881		

GRADING PLAN

SCALE: 1" = 20'

Plotted on 23-Jun-2025 5:31 PM
20170404A10_GRA01.DWG

CONTINUED ON SHEET NO. 44
CONTINUED BELOW
CONTINUED ABOVE
CONTINUED ON SHEET NO. 46

LLEWELLYN STREET
CONVERSE STREET
HIGHLAND STREET
HOMECREST STREET
EDSON STREET
LAUREL STREET

PROP. GRADE BREAK

BENCHMARK: PK UP NETT10
EL=167.25'

10
N: 2850505.500'
E: 364104.850'
EL: 166.710'
10 IRC

PC +46.58
PC +71.74

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	46	198
PROJECT FILE NO.	608881		

GRADING PLAN

LIMIT OF WORK
STA. 121+83.52
N 2850564.0824
E 365047.6882

N

20170404A10_GRA01.DWG Plotted on 23-Jun-2025 5:33 PM

MOUSTAFA TAHOUN TRUSTEE
BK. 24457, PG. 585
MAP 177 BLOCK 42 LOT 2

CAROLYN GOODWIN
BK. 22415, PG. 36
MAP 177 BLOCK 45 LOT 2

CONTINUED ON SHEET NO. 45

CONVERSE STREET N/F
GOLDFINCH HOLDINGS LLC
BK. 20752, PG. 214
MAP 177 BLOCK 48 LOT 2

150 CONVERSE STREET N/F
ROLAND BISI
LINDA A. BISI
BK. 19668, PG. 155
MAP 177 BLOCK 51 LOT 2

158 CONVERSE STREET N/F
BETTY T. KRILL
BK. 5618, PG. 446
MAP 177 BLOCK 54 LOT 2

166 CONVERSE STREET N/F
GARY S. VERATTI JR.
BK. 13669, PG. 45
MAP 177 BLOCK 57 LOT 2

LAUREL STREET

CONTINUED BELOW

PT +93.48

PROP. GRADE BREAK

CONVERSE STREET

PC +46.58

PC +71.74

PT +60.90

PROP. GRADE BREAK

LAUREL STREET

CONTINUED BELOW

CONTINUED ON SHEET NO. 45

11
N: 2850487.089'
E: 364686.318'
EL: 166.800'
11 IRC

165 CONVERSE STREET N/F
CONVERSE PLACE CONDOMINIUM
BK. 6067, PG. 62
MAP 177 BLOCK 373 LOT 7 UNIT 2

31
N: 2850508.818'
E: 364962.472'
EL: 168.575'
31 DH

0 20 50 100
SCALE: 1" = 20'

LIMIT OF WORK
STA .301+80.85
N 2850299.5936
E 364674.0294

180 LAUREL STREET N/F
PETER K. HEGER
BEVERLY A. HEGER
BK. 3348, PG. 102
MAP 432 BLOCK 18 LOT 6

170 LAUREL STREET N/F
PATRICIA M. TWERYA
BK. 11432, PG. 140
MAP 432 BLOCK 18 LOT 6

CONTINUED ABOVE

LAUREL STREET

PC +65.01

PT +34.26

CONTINUED ABOVE

PT +93.48

PC +71.74

LAUREL STREET

PT +60.90

138 CONVERSE STREET N/F
GOLDFINCH HOLDINGS LLC
BK. 20752, PG. 214
MAP 177 BLOCK 48 LOT 2

140 LAUREL STREET N/F
JERRY W. ROBERTS
DONNA L. ROBERTS
BK. 5429, PG. 593
MAP 177 BLOCK 48 LOT 2

LIMIT OF WORK
STA. 307+96.27
N 2850912.6583
E 364624.7232

N/F
JACOB BULLOCK
DONALD ANDRES
BK. 24723, PG.159
MAP 432 BLOCK 12 LOT 2

PROP. GRADE BREAK

PROP. GRADE BREAK

147 LAUREL STREET N/F
MARY ELIZABETH VAHADJI
BK. 23621, PG. 311
MAP 432 BLOCK 159 LOT 6

137 LAUREL STREET N/F
VICTORIA LEO
IAN FLICK
BK. 24674, PG. 108
MAP 432 BLOCK 159 LOT

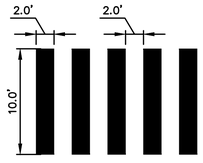
0 20 50 100
SCALE: 1" = 20'

MARKING LEGEND	
	BICYCLE DETECTOR PAVEMENT MARKING
	PROPOSED SIGN AND POST
SL	PROPOSED 12" WHITE STOP LINE
CW	PROPOSED 24" WHITE CROSS WALK
SWL	PROPOSED 6" SINGLE WHITE LINE
BWL	PROPOSED 6" BROKEN WHITE LINE (10' MARK - 30' SKIP)
SWLL	PROPOSED 6" SINGLE WHITE LANE LINE
BWLL	PROPOSED 6" SINGLE BROKEN WHITE LANE LINE (10' MARK - 30' GAP)
DWL	PROPOSED 6" DOTTED WHITE LINE (3' MARK - 9' GAP)
SYEL	PROPOSED 6" SINGLE YELLOW EDGE LINE
SYL	PROPOSED 6" SINGLE YELLOW LINE
BYCL	PROPOSED 6" BROKEN YELLOW CENTER LINE (3' MARK - 9' GAP)
DBYL	PROPOSED 6" DOUBLE YELLOW LINE
DWLEX	PROPOSED 6" DOTTED WHITE LANE EXTENSION LINE (2' MARK - 6' GAP)
DYLEX	PROPOSED 6" DOTTED YELLOW LANE EXTENSION LINE (2' MARK - 6' GAP)
SWCHL	PROPOSED 8" SOLID WHITE CHANNEL LINE
YGL	YELLOW GORE LINE - 12" SOLID YELLOW LINE (10' O.C.) @45 DEGREES
WGL	WHITE GORE LINE - 6" SOLID WHITE LINE (3.5' O.C.) @45 DEGREES
DDYLEx	DOUBLE DOTTED YELLOW LANE EXTENSION LINE

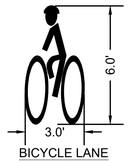
NOTES:
1. ALL STANDARD P-5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
2. ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED ON PLANS
3. ALL PAVEMENT MARKING LINES ARE TO BE REFLECTIVE RECESSED THERMOPLASTIC. ALL PAVEMENT MARKING SYMBOLS ARE TO BE THERMOPLASTIC.
4. YELLOW GORE LINES SHALL FORM AN ANGLE OF APPROXIMATELY 45 DEGREES WITH THE LONGITUDINAL LINES THAT THEY INTERSECT. SPACING OF GORE LINES SHALL BE APPROXIMATELY 10 FEET.
5. IN PAVEMENT AREAS OUTSIDE THE MILL & OVERLAY AREA, EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED IN AREAS WHERE NEW PAVEMENT MARKINGS ARE PROPOSED.
6. ALL R7 SERIES SIGNS (NO PARKING) SHALL BE INSTALLED AT 45 DEGREE ANGLE RELATIVE TO THE ROADWAY. REFER TO THE SIGN SYMBOLS PLACED ON PLANS.
7. SEE SIGN SUMMARY ON SHEETS 54-55 FOR SIGN DETAILS.

XXXX PROPOSED SIGN DESIGNATION

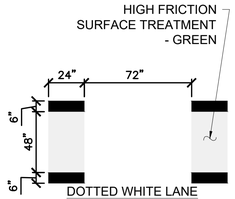
XXXX EXISTING SIGN DESIGNATION



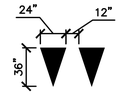
CROSSWALK DETAIL
N.T.S



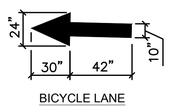
BICYCLE LANE MARKING DETAIL
N.T.S



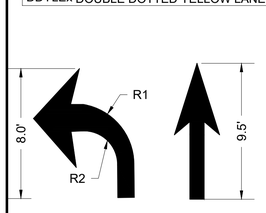
DOTTED WHITE LANE LINE EXTENSION AT BIKE LANE DETAIL
N.T.S

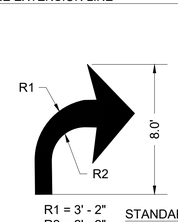


YIELD LINE DETAIL
N.T.S

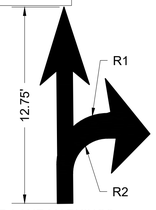


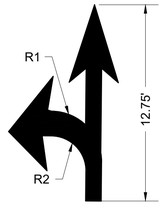
BICYCLE LANE ARROW MARKING DETAIL
N.T.S



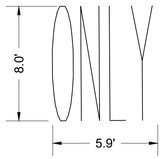


R1 = 3' - 2"
R2 = 2' - 2"





STANDARD LANE MARKINGS
N.T.S



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	47	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

20170404A10_PVT01.DWG Plotted on 23-Jun-2025 5:28 PM

BEGINNING OF PROJECT
STA. 2+09.46
N 2850354.9294
E 363110.2388

LONGMEADOW STREET (U.S. ROUTE 5)

ENGLEWOOD ROAD

CONVERSE STREET

LIMIT OF WORK
STA.100+66.77
N 2850682.4632
E 362951.0198

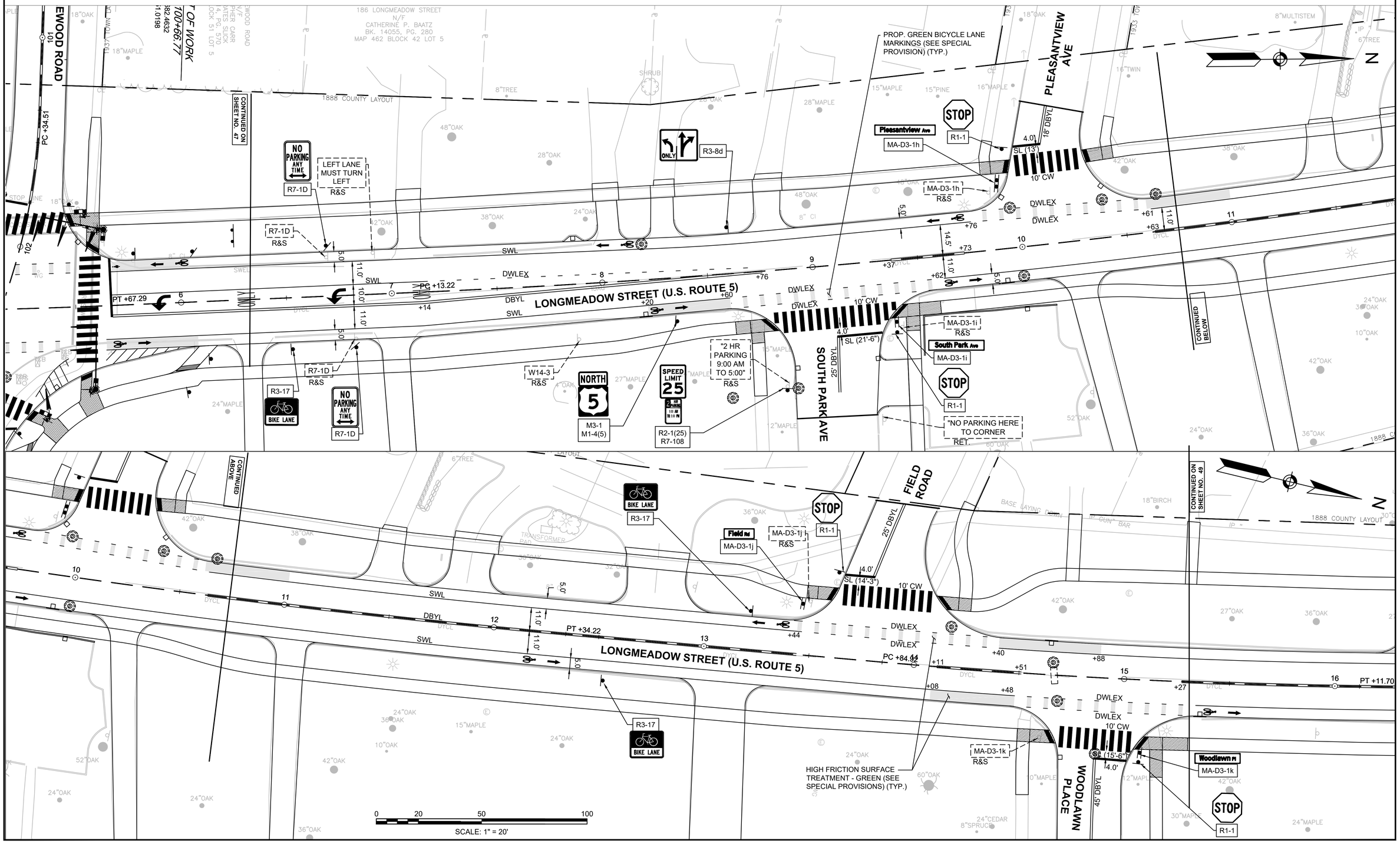
SCALE: 1" = 20'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	48	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

20170404A10_PVT01.DWG Plotted on 23-Jun-2025 5:29 PM



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	49	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

Plotted on 23-Jun-2025 5:30 PM
20170404A10_PVT01.DWG

CONTINUED ON SHEET NO. 48
CONTINUED BELOW
CONTINUED ABOVE
CONTINUED ON SHEET NO. 50

LONGMEADOW STREET (U.S. ROUTE 5)
SOUTH 5
M3-3
M1-4(5)
SWL
DBYL
DYCL
DWLEX
DWL
BWL
PT +11.70
PC +50.00
+50.69
+89.11
+65.16
WOODLAWN PLACE
ENTERING PIONEER VALLEY RETAIN
FERNLEAF AVENUE
45' DBYL
TREE CITY USA
R&D
1888 COUNTY LAYOUT
BIKE LANE
R3-17
NO PARKING ANY TIME
R7-1D
R&S
MASSACHUSETTS CRIME WATCH COMMUNITY
SAFETY BELTS FASTENED
R&S
WESTERN DRIVE
DH TOWN LINE
Fernleaf Ave
MA-D3-1L
R1-1
STOP
PROP. BINDER RESIN SYSTEM WITH SURFACE APPLIED AGGREGATE AND PIGMENT - GREEN (TYP.)
SL (18'-8" 4.0'
10' CW
MAP 462 BLOCK 6 LOT 1
N/F MAUREEN MULCAHY BK. 21249, PG. 95 MAP 462 BLOCK 3 LOT 1

SCALE: 1" = 20'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	50	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

20170404A10_PVT01.DWG Plotted on 23-Jun-2025 5:32 PM

LONGMEADOW IS A BUCKLE UP COMMUNITY R&D

SPEED LIMIT 35 R2-1 (35)

LONGMEADOW IS A PURPLE HEART TOWN R&D

Western Dr / Longmeadow St MA-D3-1b MA-D3-1c (ON MAST POST)

NO PARKING ANY TIME R7-1D

RIGHT LANE ENDS W9-1R

LEFT ON GREEN ARROW ONLY R10-5

SOUTH 5 TO SOUTH INTERSTATE 91 M3-3 M1-4(5) M6-1L M4-5(INT) M3-3(INT) M1-1(91)

NORTH 5 TO NORTH INTERSTATE 91 M3-1 M1-4(5) M6-1R M4-5(INT) M3-1(INT) M1-1(91)

LIMIT OF WORK STA. 401+00 N 2852644.3249 E 362586.5166

R1-1 (FOLDING) R&S

TURNING VEHICLES TO R10-15R

401+36.67

WESTERN DRIVE

LONGMEADOW SPRINGFIELD

43' DBYL

MA-D3-1b R&S

W4-2(L) R1-1 (FOLDING) R&S

ENTERING INC. 1636 Springfield ENTERING INC. 1783 Longmeadow MA-I-2a MA-I-2b

PROP. GREEN BICYCLE LANE MARKINGS (SEE SPECIAL PROVISION) (TYP.)

SOUTH 5 TRUCK ROUTE M3-3 M1-4(5) R14-1 M6-3

M1-4 (5) R&S

1888 COUNTY LAYOUT

+89.11 23 24 +08 PC +50.00 +50.69 +53.53 OFFSET: 5.52 +57 +80 +92 +35 DWLEX DBYL YGL SL (26'-4") 10' CW SL (14'-10") SL (43'-3") +20 PT +41.33 +81.15 OFFSET: 10.50 +81 +16 +67 +77 +99

SWL DWL DBYL DWLEX DYCL 5.0 11.0' 10.0' 10.5' 11.6' 11.9'

W4-2(R)

R2-1 (35) R&S

R7-D R&S

Forest Glen Rd MA-D3-1a

R10-10L R&S

COLUMBUS AVENUE (U.S. ROUTE 5)

ONLY

CONTINUED ON SHEET NO. 49

CONTINUED ON SHEET NO. 51

R2-1 (30) R&S

SPEED LIMIT 30

FOREST GLEN ROAD

R10-6 STOP HERE ON RED

MA-I-2a MA-I-2b R&S

R7-1D R1-1 (FOLDING) R&S

Forest Glen Rd / Longmeadow St MA-D3-1a MA-D3-1c R10-15R(2) (ON MAST POST)

TURNING VEHICLES

R7-1D NO PARKING ANY TIME R&S

WELCOME TO SPRINGFIELD R&R

END SPEED ZONE MA-R2-7

W4-2(R)

M2-1(INT) M1-1(91) R&S

M4-5(INT) M1-1(91) M6-3(INT)

TO INTERSTATE 91

CONTINUED BELOW

R&S

0 20 50 100

SCALE: 1" = 20'

299 SUMNER AVENUE N/F SPRINGFIELD CITY OF

CONTINUED ABOVE

R3-8h

BIKE LANE R3-17

R10-12 RET.

FOREST PARK RET.

RET. EXIST. MARKINGS

END OF PROJECT
STA. 32+50.00
N 2853269.4291
E 362427.6962
1958 SHLO NO ACCESS

MATCH EXIST. MARKINGS

32+74.68

LONGMEADOW STREET (U.S. ROUTE 5)

BWL +82 +75 +20 SL (21'-7") SL (33'-4") 4' 10' CW SL (30') ACCESS

FOREST PARK RET.

GUIDE SIGN RET.

BIKE LANE ENDS R3-17 R3-17bP

MA-R9-15

STATE HIGHWAY BEGINS RET.

R4-7

0 20 50 100

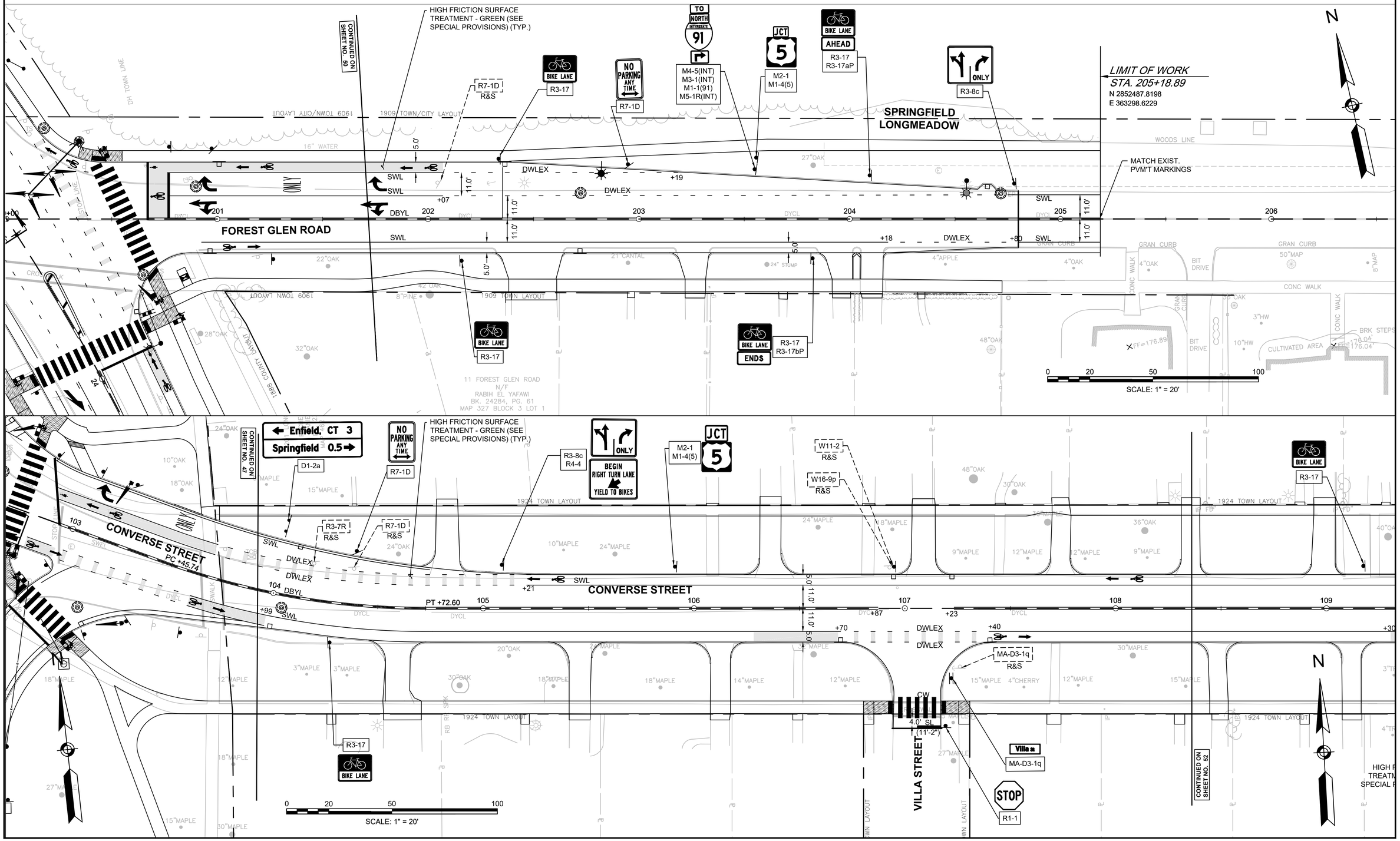
SCALE: 1" = 20'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	51	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

Plotted on 23-Jun-2025 5:33 PM
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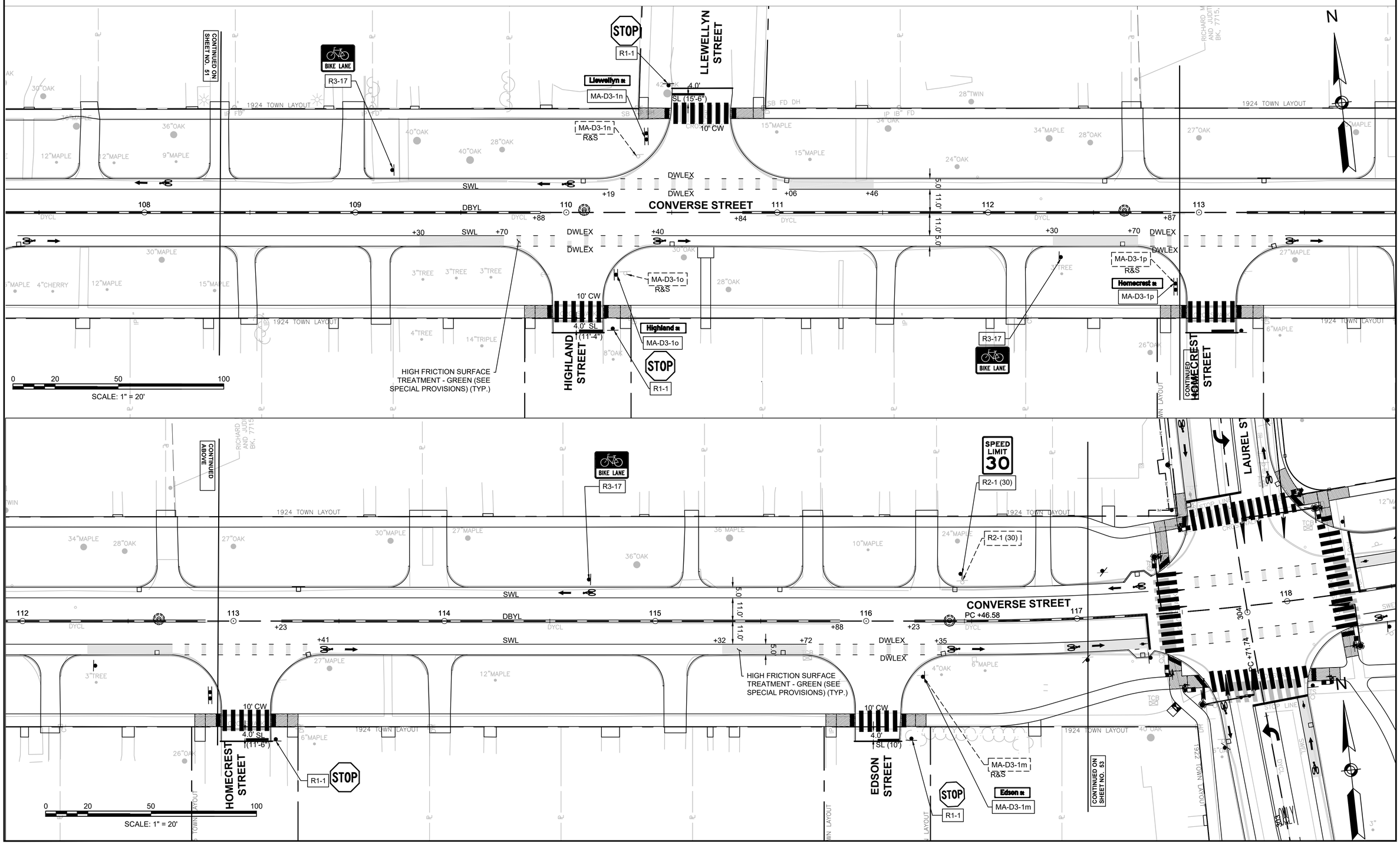


LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	52	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

20170404A10_PVT01.DWG Plotted on 23-Jun-2025 5:34 PM



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	53	198
PROJECT FILE NO.	608881		

PAVEMENT MARKING & SIGNING PLAN

20170404A10_PVT01.DWG Plotted on 23-Jun-2025 5:35 PM

HIGH FRICTION SURFACE TREATMENT - GREEN (SEE SPECIAL PROVISIONS) (TYP.)

LIMIT OF WORK
STA.121+83.52
N 2850564.0824
E 365047.6882

MEET EXIST. PVM'T MARKINGS

CONVERSE STREET
PC +46.58
PT +60.90

LAUREL STREET
PC +71.74
PT +93.48

LIMIT OF WORK
STA .301+80.85
N 2850299.5936
E 364674.0294

LIMIT OF WORK
STA. 307+96.27
N 2850912.6583
E 364624.7232

BENEDICT TERRACE

HARWICH ROAD

MEET EXIST. PVM'T MARKINGS

PVTA BUS STOP RET.

SCALE: 1" = 20'

NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	54	198
PROJECT FILE NO.	608881		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
D1-1	96	18	← East Longmeadow	6D	6 6	6"X9" @ 270 ANGLE	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	12.00	12.00
D1-2a	84	30	← Enfield CT 3 Springfield 0.5 →	6D	4.7 3.9 3.9 4.7	6"X9" @ 270 ANGLE 6"X9" @ 90 ANGLE	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	17.50	17.50
D11-1	24	18	BIKE ROUTE	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			2	GREEN	WHITE	WHITE	P-5 2 REQ'D	3.00	6.00
OM1-1	24	24					1	YELLOW	REFLECT-ORIZED YELLOW BUTTONS	N/A	P-5 1 REQ'D	4.00	4.00
M1-1(91)	24	24	INTERSTATE 91				6	BLUE/ RED	WHITE	WHITE	ITEM 848.1 (2-P5 POST ASSEMBLY) P-5 2 REQ'D	4.00	24.00
M1-4(5)	24	24	5				10	WHITE	BLACK	BLACK	4 MOUNTED WITH M1-1 (91) P-5 6 REQ'D	4.00	40.00
M2-1	21	15	JCT				2	WHITE	BLACK	BLACK	MOUNTED WITH M1-4 (5)	2.00	4.00
M3-1	24	12	NORTH				3	WHITE	BLACK	BLACK	MOUNTED WITH M1-4 (5)	2.00	6.00
M3-1 (INT)	24	12	NORTH				3	BLUE	WHITE	WHITE	MOUNTED WITH M1-1 (91)	2.00	6.00
M3-3	24	12	SOUTH				5	WHITE	BLACK	BLACK	MOUNTED WITH M1-4 (5)	2.00	10.00
M3-3 (INT)	24	12	SOUTH				2	BLUE	WHITE	WHITE	MOUNTED WITH M1-1 (91)	2.00	4.00
M4-5 (INT)	24	12	TO				6	WHITE	BLACK	BLACK	MOUNTED WITH M1-1 (91)	2.00	12.00
M5-1R (INT)	21	15					1	BLUE	WHITE	WHITE	MOUNTED WITH M1-1(91)	2.19	2.19
M6-1R	21	15					2	WHITE	BLACK	BLACK	MOUNTED WITH M1-4(5)	2.19	4.38
M6-1L	21	15					2	WHITE	BLACK	BLACK	MOUNTED WITH M1-4(5)	2.19	4.38
M6-2R	12	9					1	GREEN	WHITE	WHITE	MOUNTED WITH D11-1	0.75	0.75
M6-2L	12	9					1	GREEN	WHITE	WHITE	MOUNTED WITH D11-1	0.75	0.75

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
M6-3	21	15		SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	WHITE	BLACK	BLACK	MOUNTED WITH M1-4(5)	2.19	2.19
M6-3 (INT)	21	15		SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	BLUE	WHITE	WHITE	MOUNTED WITH M1-(91)	2.19	2.19
MA-D3-1a (PBS)	60	12	Forest Glen Rd	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	1 ON MAST POST 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1b (PBS)	45	12	Western Dr	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	1 MOUNTED ON MAST POST	___	EACH
MA-D3-1c (PBS)	66	12	Longmeadow St	6D/4D	3 3	N/A	4	GREEN	WHITE	WHITE	MOUNTED ON MAST POST	___	EACH
MA-D3-1d (PBS)	51	12	Converse St	6D/4D	3 3	N/A	4	GREEN	WHITE	WHITE	MOUNTED ON MAST POST	___	EACH
MA-D3-1e (PBS)	57	12	Englewood St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	MOUNTED ON MAST POST	___	EACH
MA-D3-1f (PBS)	39	12	Laurel St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	MOUNTED ON MAST POST	___	EACH
MA-D3-1h (PBS)	69	12	Pleasantview Ave	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1i (PBS)	60	12	South Park Ave	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1j (PBS)	36	12	Field Rd	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	___	EACH
MA-D3-1k (PBS)	54	12	Woodlawn Pl	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1L (PBS)	51	12	Fernleaf Ave	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1m (PBS)	36	12	Edson St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	___	EACH
MA-D3-1n (PBS)	51	12	Llewellyn St	6D/4D	3 3.25	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1o (PBS)	48	12	Highland St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH
MA-D3-1p (PBS)	57	12	Homecrest St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	ITEM 848.1 (2 -P5 POST ASSEMBLY)	___	EACH

20170404A10_SIGNSUM01.DWG 23-Jun-2025

NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	55	198
PROJECT FILE NO.	608881		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
MA-D3-1q (PBS)	32	12	Villa st	6D/4D	3 / 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	___	EACH
MA-R2-7	30	36	END SPEED ZONE	SEE MASSDOT 2016 STANDARD SIGNS BOOK (INCLUDING LATEST REVISIONS)			1	WHITE	BLACK	BLACK	P-5 1 REQ'D	7.50	7.50
MA-I-2a	60	48	ENTERING INC. 1636 Springfield				1	WHITE	BLACK/ BLUE	BLACK	ITEM 841.6 (1) - 5" TUBULAR POST	22.00	22.00
MA-I-2b	60	48	ENTERING INC. 1783 Longmeadow				1	WHITE	BLACK/ BLUE	BLACK	MOUNTED BACK TO BACK WITH MA-D1-2a	22.00	22.00
MA-R10-12a	30	36	LEFT TURN YIELD ON FLASHING				2	WHITE	BLACK/ YELLOW	BLACK	O'HEAD MOUNT	7.50	15.00
R1-1	30	30	STOP	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			12	WHITE	RED	RED	1 MOUNTED WITH D3-1 P-5 11 REQ'D	6.25	75.00
R10-6	24	36	STOP HERE ON RED				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	6.00	6.00
R10-11b	36	36	NO TURN ON RED				5	WHITE	BLACK	BLACK	4 MOUNTED ON MAST POST P-5 1 REQ'D	9.00	45.00
R10-15(R)	30	30	TURNING VEHICLES TO				9	WHITE	BLACK/ YELLOW/ RED	BLACK	1 MOUNTED ON MAST POST P-5 8 REQ'D	6.25	56.25
R2-1 (25)	24	30	SPEED LIMIT 25				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	5.00
R2-1 (30)	24	30	SPEED LIMIT 30				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	5.00	20.00
R2-1 (35)	24	30	SPEED LIMIT 35				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	5.00	20.00
R3-17	24	18	BIKE LANE				19	WHITE	BLACK	BLACK	P-5 19 REQ'D	3.00	57.00
R3-17aP	24	8	AHEAD				1	WHITE	BLACK	BLACK	MOUNTED W/ R3-17	1.33	1.33
R3-17bP	24	8	ENDS				4	WHITE	BLACK	BLACK	MOUNTED WITH R3-17	1.33	5.33
R3-5L	30	36	ONLY				1	WHITE	BLACK	BLACK	O'HEAD MOUNT	7.50	7.50
R3-5R	30	36	ONLY				1	WHITE	BLACK	BLACK	O'HEAD MOUNT	7.50	7.50

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
R3-8c	30	30	ONLY	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			3	WHITE	BLACK	BLACK	P-5 3 REQ'D	6.25	18.75
R3-8d	30	30	ONLY				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	6.25	12.50
R3-8h	48	30	ONLY ONLY				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	10.00	10.00
R4-4	36	30	BEGIN RIGHT TURN LANE YIELD TO BIKES				2	WHITE	BLACK	BLACK	1 MOUNTED WITH R3-8c P-5 2 REQ'D	7.50	15.00
R4-7	24	30					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	5.00
R4-11	30	30	MAY USE FULL LANE				2	WHITE	BLACK	BLACK	1 MOUNTED WITH R3-18 P-5 1 REQ'D	6.25	12.50
R5-1	30	30	DO NOT ENTER				2	WHITE	RED	RED	P-5 2 REQ'D	6.25	12.50
R7-1D	12	18	NO PARKING ANY TIME				19	WHITE	RED	RED	P-5 19 REQ'D	1.50	28.50
R7-11	12	18	NO PARKING HERE TO CORNER				2	WHITE	RED	RED	P-5 2 REQ'D	1.50	3.00
R7-107D	12	18	NO PARKING BUS STOP				1	WHITE	RED	RED	P-5 1 REQ'D	1.50	1.50
R7-108	12	18	2 HR PARKING 10 AM TO 5:00 PM				1	WHITE	RED	RED	MOUNT WITH R2-1 (25)	1.50	1.50
MA-R9-15	24	24		SEE MASSDOT 2016 STANDARD SIGNS BOOK (INCLUDING LATEST REVISIONS)			1	WHITE	BLACK	BLACK	P-5 1 REQ'D	4.00	4.00
R10-5	24	30	LEFT ON GREEN ARROW ONLY	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			O'HEAD MOUNT	5.00	5.00
R14-1	24	18	TRUCK ROUTE				1				P-5 1 REQ'D	3.00	3.00
W9-1R	36	36	RIGHT LANE ENDS				1				P-5 1 REQ'D	9.00	9.00
W4-2R	36	36					2				P-5 2 REQ'D	9.00	18.00
W14-2	30	30	NO OUTLET				1				P-5 1 REQ'D	6.25	6.25

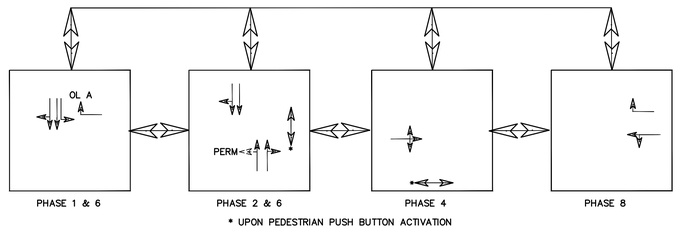
20170404A10_SIGNSUM01.DWG 23-Jun-2025

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

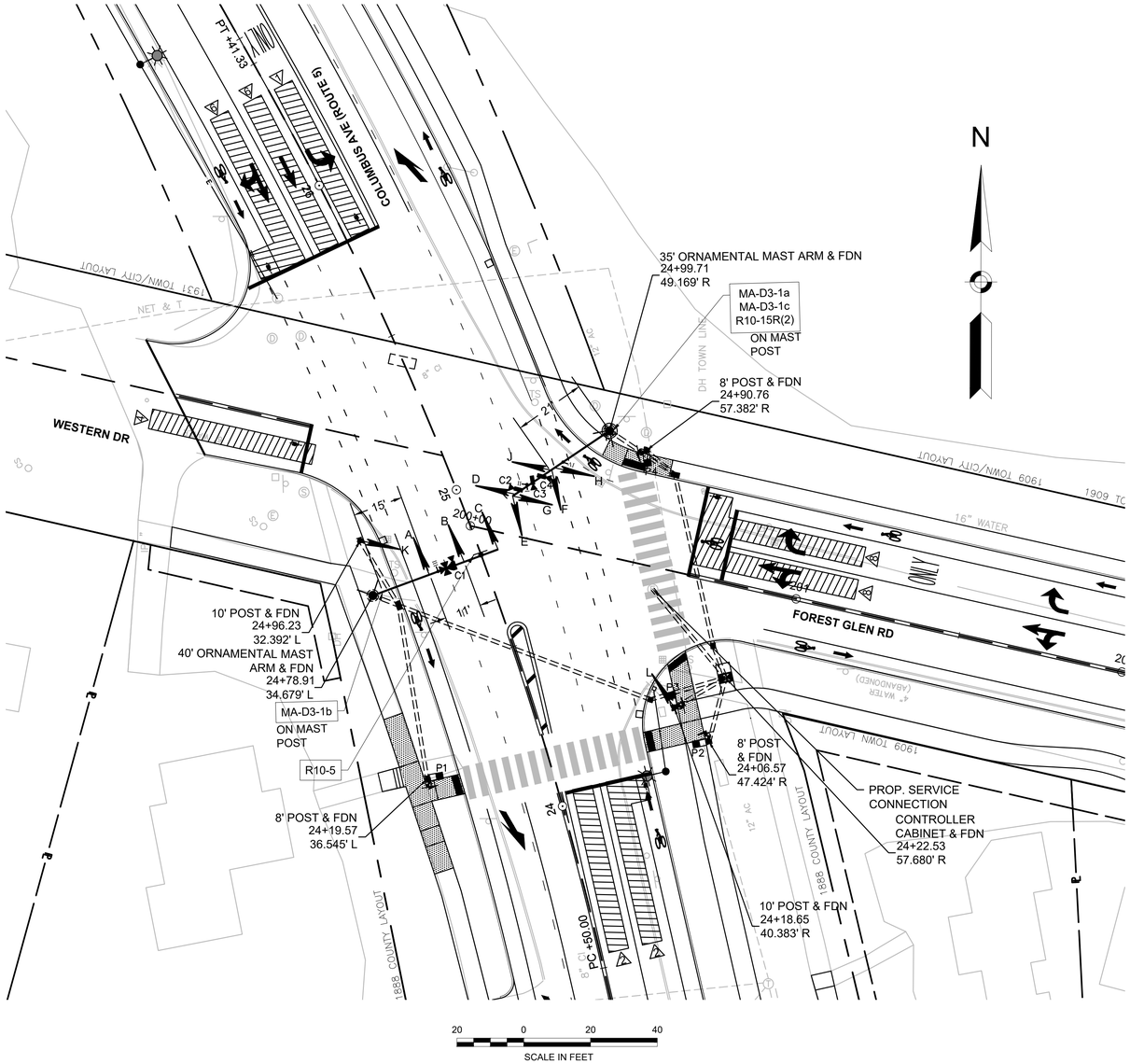
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	56	198
PROJECT FILE NO.	608881		

TRAFFIC SIGNAL PLAN
LOCATION 1
LONGMEADOW ST / COLUMBUS AVE AT FOREST GLEN RD/ WESTERN DR

20170404A10_TSP01.DWG Plotted on 24-Jun-2025 11:44 AM



PREFERENTIAL PHASE SEQUENCE



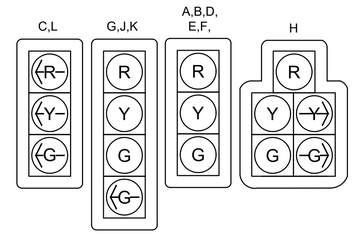
NOTE: PROPOSED ORNAMENTAL MAST ARMS ARE CURVED AND FLUTED SEE SPECIAL PROVISIONS

VIDEO DETECTION

KEY	OPERATION	DELAY	PHASE	CAMERA
2	PRESENCE	0 SEC.	2	3
4	PRESENCE	0 SEC.	4	2
6	PRESENCE	0 SEC.	6	1
1	PRESENCE	0 SEC.	1	1
8	PRESENCE	0 SEC.	8	4

LEGEND

- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE



PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" NON-LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****

P1-P4

ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).

PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

MAST ARM AND STRAIN POLE LOCATION KEY FOR 110 MPH WIND SPEED

NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE	SOIL BORING NO.	SOIL TYPE	FOUNDATION DIAMETER	FOUNDATION DEPTH	TIE BARS
5	24+78.91/34.68' LT	LONGMEADOW ST/FOREST GLEN RD	40'-0"	B-5	Wet Sand (Loose)	3'-6"	15'-0"	#5 @9"
7	24+99.71/49.17' RT	LONGMEADOW ST/FOREST GLEN RD	35'-0"	B-7	Wet Sand (Loose)	4'-6"	16'-6"	#5 @6"

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	57	198
PROJECT FILE NO.	608881		

TRAFFIC SIGNAL PLAN
LOCATION 1
LONGMEADOW ST / COLUMBUS AVE AT
FOREST GLEN RD/ WESTERN DR

20170404A10_TSP01.DWG Plotted on 24-Jun-2025 11:44 AM

SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	1			2			4			6			8			
							PREEMPTION I			PREEMPTION II			PREEMPTION III			PREEMPTION IV			
				1	2	3	7	8	9	10	11	12	13	14	15	13	14	15	FLASH
MINIMUM GREEN				5			10			8			10			8			EMERGENCY ONLY
PASSAGE TIME				4			4			4			4			4			
MAXIMUM I				21.5			31			26.5			52.5			23			
MAXIMUM II				30			27			26.5			57			23			
YELLOW CLEAR					3			3			3.5			3			3.5		
RED CLEAR						3			4			3			4			3	
WALK							7			7			7						
PED CLEAR								10			13			12					
COLUMBUS AVE	SB	A,B	6	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY
COLUMBUS AVE	SB L	C,L	1	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
LONGMEADOW ST	NB	E,F	2	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
WESTERN DR	EB	J	4	R	R	R	R	R	R	G/FG	Y	R	R	R	R	R	R	R	FR
WESTERN DR	EB	D	4	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FR
FOREST GLEN RD	WB	G,K	8	R	R	R	R	R	R	R	R	R	R	R	R	G/FG	Y	R	FR
FOREST GLEN RD	WB / WB R	H	8/A	R G	R Y	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
	E/W	P1,P2	UPON PUSHBUTTON ACTUATION	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
	N/S	P3,P4		DW	DW	DW	W	FDW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				OFF			SOFT			OFF			SOFT			OFF			
DUAL ENTRY				OFF			ON			OFF			ON			OFF			
FLASHING OPERATION PER MUTCD SEC. 4D-28				OL A			PERM A PERM			A									

NOTE:

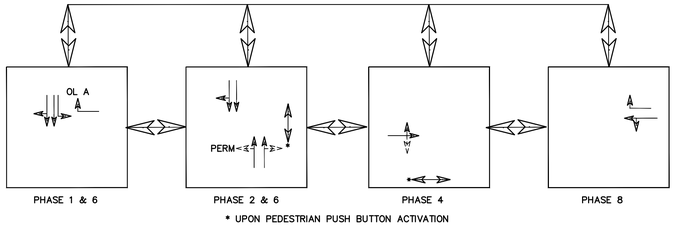
1. A GREEN SIGNAL INDICATION IS TO REMAIN ENERGIZED DURING A CLEARANCE INTERVAL IF THE NEXT PHASE CALLS FOR SAME INDICATION.

2. DURING PED OPERATION, FDW THROUGH YELLOW INTERVAL SHALL BE IN EFFECT EXCEPT WHERE 3 SEC DW BUFFER INTERVAL MUST COINCIDE WITH PART OF THE YELLOW INDICATION.

3. WHEN PED PUSH BUTTON IS ACTIVATED, MIN GREEN IS EQUAL TO (WALK TIME + PED CLEAR TIME) MINUS (YELLOW + ALL RED TIME).

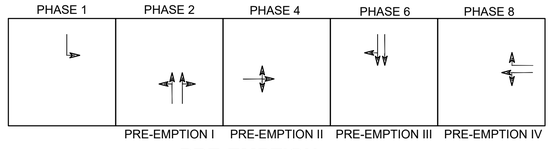
MAX I: 06:00 TO 10:00 AM
MAX II: ALL OTHER TIMES

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION
OL = OVERLAP



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



PRE-EMPTION

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.

2. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.

3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.

4. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

5. DURING PRE-EMPTION, ALL PEDESTRIAN SIGNALS SHALL ILLUMINATE STEADY DON'T WALK.

MAJOR ITEMS REQUIRED

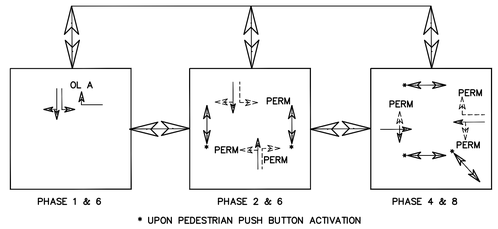
PAY ITEM	QUANTITY	ITEM
811.22	2	PULL BOX 13" X 24"
811.31	2	PULL BOX 12" X 12"
816.01	1	SERVICE CONNECTION
	3	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	2	SIGNAL POST & BASE STANDARD -10' INCL FOUNDATION
	1	35' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	1	40' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	7	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	3	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	1	SIGNAL HEAD 1 WAY - 5 SECTION 12" LED LENS
	4	16" LED PEDESTRIAN SIGNAL HEAD
	1	ATC TRAFFIC SIGNAL CONTROLLER - INCLUDING NEMA/ATC 4 DOOR BASE MOUNTED CABINET
	4	ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON, SIGN AND SADDLE
	1	VIDEO DETECTION RACK
	4	VIDEO DETECTOR, VDP AND CABLES (INCLUDES MOUNTING ARM FOR STRAIN POLE)
	4	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	58	198
PROJECT FILE NO.	608881		

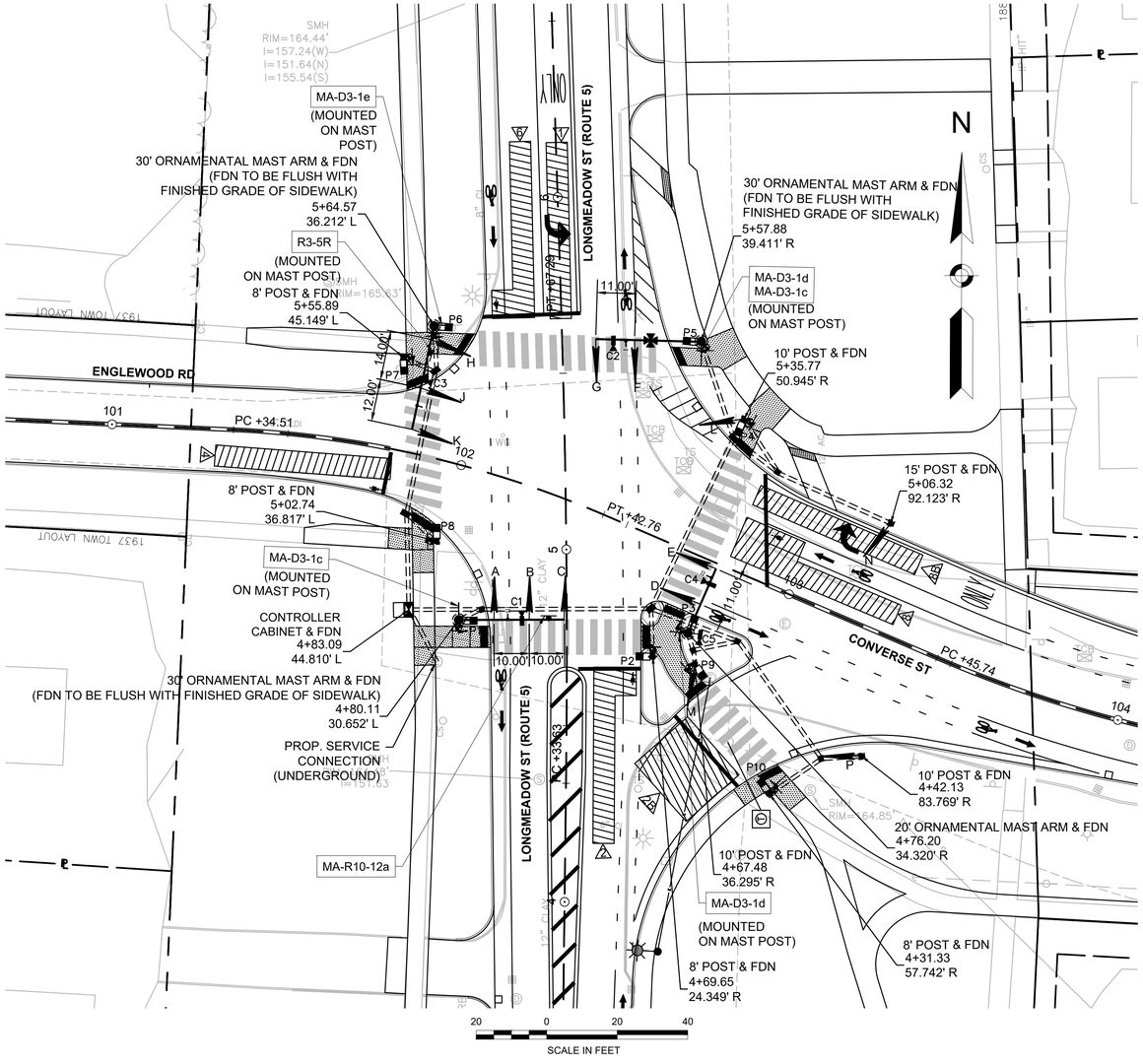
TRAFFIC SIGNAL PLAN
LOCATION 2
LONGMEADOW ST AT
ENGLEWOOD RD/CONVERSE ST

20170404A10_TSP01.DWG Plotted on 24-Jun-2025 11:44 AM



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



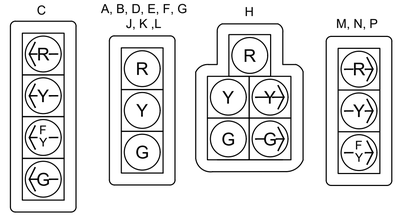
NOTE: PROPOSED ORNAMENTAL MAST ARMS ARE CURVED AND FLUTED SEE SPECIAL PROVISIONS

VIDEO DETECTION

KEY	OPERATION	DELAY	PHASE	CAMERA
2	PRESENCE	0 SEC.	2	C2
2B	PRESENCE	0 SEC.	2	C5
4	PRESENCE	0 SEC.	4	C4
6	PRESENCE	0 SEC.	6	C1
1	PRESENCE	0 SEC.	1	C1
8	PRESENCE	0 SEC.	8	C3
8B	PRESENCE	4 SEC.	8	C3

LEGEND

- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE



ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" NON-LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****

P1-P10





ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).

PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

MAST ARM AND STRAIN POLE LOCATION KEY FOR 110 MPH WIND SPEED

NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE	SOIL BORING NO.	SOIL TYPE	FOUNDATION DIAMETER	FOUNDATION DEPTH	TIE BARS
1	4+80.11/30.65' LT	LONGMEADOW ST/CONVERSE ST	30'-0"	B-1	Wet Sand (Loose)	3'-6"	15'-0"	#5 @9"
2	4+76.20/34.32' RT	LONGMEADOW ST/CONVERSE ST	20'-0"	B-2	Wet Sand (Loose)	3'-6"	11'-6"	#5 @9"
3	5+57.88/39.41' RT	LONGMEADOW ST/CONVERSE ST	30'-0"	B-3	Wet Sand (Loose)	3'-6"	15'-0"	#5 @9"
4	5+64.57/36.21' LT	LONGMEADOW ST/CONVERSE ST	30'-0"	B-4	Wet Sand (Loose)	3'-6"	15'-0"	#5 @9"

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	59	198
PROJECT FILE NO.	608881		

TRAFFIC SIGNAL PLAN
LOCATION 2
LONGMEADOW ST AT
ENGLEWOOD RD/CONVERSE ST

20170404A10_TSP01.DWG Plotted on 24-Jun-2025 11:44 AM

SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	1			2			4			6			8			
							PREEMPTION I			PREEMPTION II			PREEMPTION III			PREEMPTION IV			
				1	2	3	7	8	9	10	11	12	13	14	15	16	17	18	FLASH
MINIMUM GREEN				05			10			10			10			10			EMERGENCY ONLY
PASSAGE TIME				01			01			01			01			01			
MAXIMUM I				13			27			20			44			20			
MAXIMUM II				18			27			20			49			20			
YELLOW CLEAR					03			03			03			03			03		
RED CLEAR						01			03			02			03			02	
WALK							07			07			07			07			
PED CLEAR								11	03		13	03		11	03		13	03	
LONGMEADOW ST	SB	A, B	6	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY
LONGMEADOW ST	SB L	C	1	⟨G⟩	⟨Y⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨FY⟩	⟨Y⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨FR⟩
LONGMEADOW ST	NB	E, F	2	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
LONGMEADOW ST	NB R	M,N,P	2	⟨R⟩	⟨R⟩	⟨R⟩	⟨FY⟩	⟨Y⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨R⟩	⟨FR⟩
CONVERSE ST	WB	J,K	8	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
CONVERSE ST	WB R	H	8/A	R ⟨G⟩	R ⟨Y⟩	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
ENGLEWOOD RD	EB	D,E,L	4	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FR
	E/W	P1,P2	UPON PUSHBUTTON ACTUATION	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
	N/S	P3,P4		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
	E/W	P5,P6		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	N/S	P7,P8		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	OUT
	N/S	P9,P10		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				OFF			SOFT			OFF			SOFT			OFF			
DUAL ENTRY				OFF			ON			OFF			ON			OFF			
FLASHING OPERATION PER MUTCD SEC. 4D-28				OL A			PERM PERM			PERM PERM			PERM			PERM PERM			

NOTE:

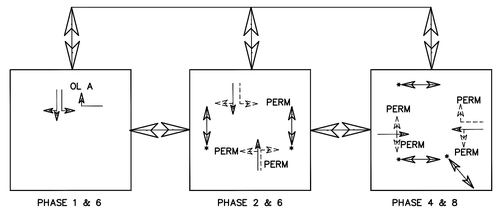
1. A GREEN SIGNAL INDICATION IS TO REMAIN ENERGIZED DURING A CLEARANCE INTERVAL IF THE NEXT PHASE CALLS FOR SAME INDICATION.

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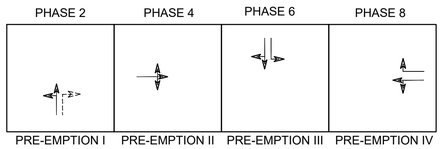
MAX I: ALL OTHER TIMES
MAX II: 2:00PM TO 6:00PM

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION
OL = OVERLAP



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



PRE-EMPTION

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.

2. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.

3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.

4. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

5. DURING PRE-EMPTION, ALL PEDESTRIAN SIGNALS SHALL ILLUMINATE STEADY DON'T WALK.

MAJOR ITEMS REQUIRED

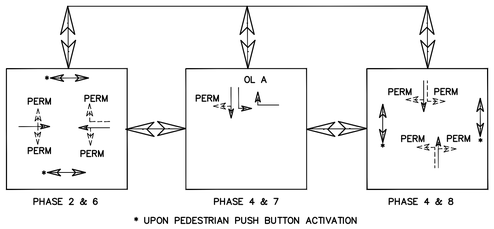
PAY ITEM	QUANTITY	ITEM
811.22	5	PULL BOX 13" X 24"
811.31	4	PULL BOX 12" X 12"
816.02	1	SERVICE CONNECTION (UNDERGROUND)
	4	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	3	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	SIGNAL POST & BASE STANDARD - 15' INCL FOUNDATION
	1	20' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	3	30' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	12	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	1	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	1	SIGNAL HEAD 1 WAY - 5 SECTION 12" LED LENS
	10	16" LED PEDESTRIAN SIGNAL HEAD
	1	ATC TRAFFIC SIGNAL CONTROLLER - INCLUDING NEMA/ATC 4 DOOR BASE MOUNTED CABINET
	10	ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON, SIGN AND SADDLE
	1	VIDEO DETECTION RACK
	4	VIDEO DETECTOR, VDP AND CABLES
	4	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	60	198
PROJECT FILE NO.	608881		

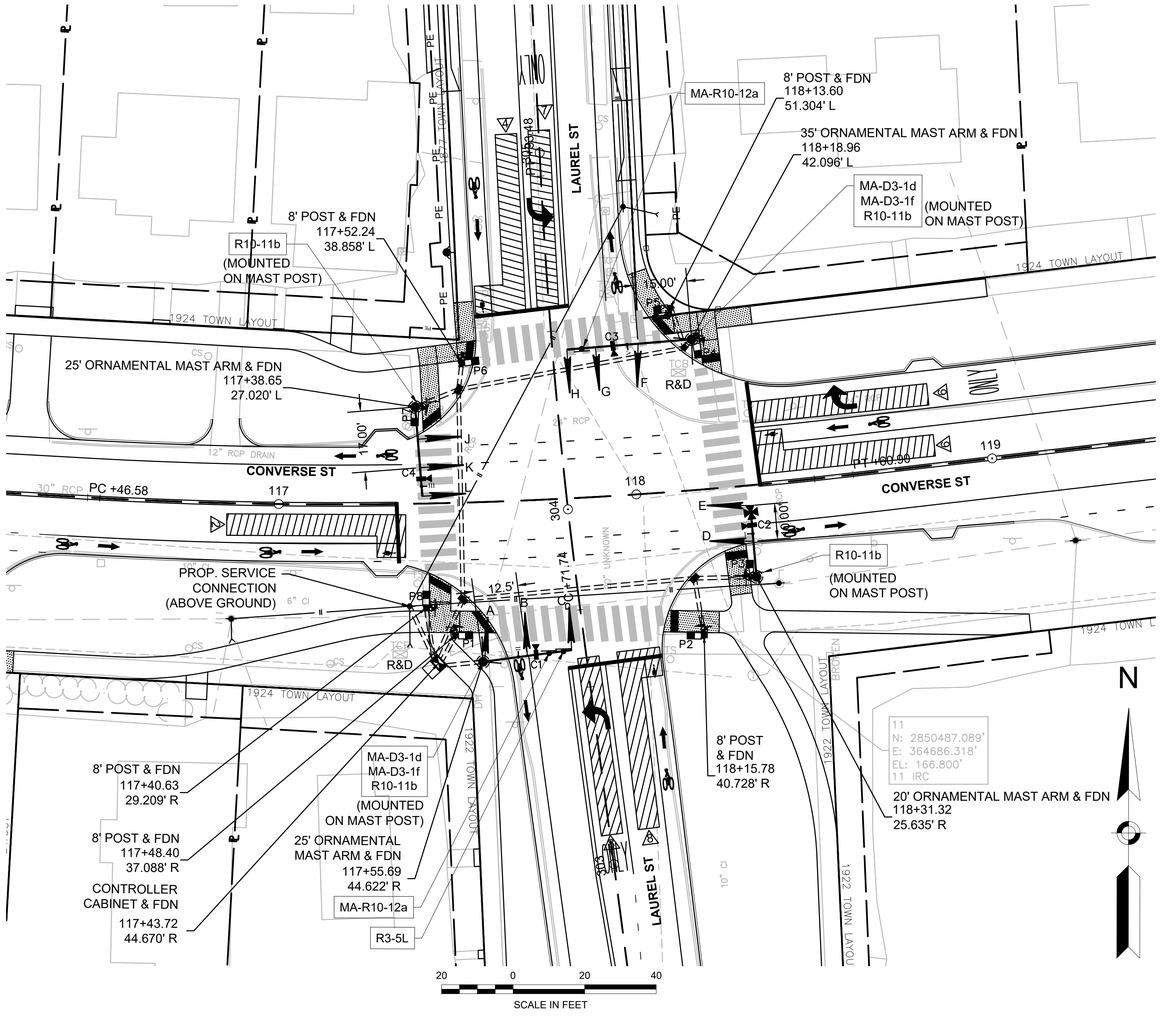
TRAFFIC SIGNAL PLAN
LOCATION 3
CONVERSE ST AT LAUREL ST

20170404A10_TSP01.DWG Plotted on 24-Jun-2025 11:45 AM



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



NOTE: PROPOSED ORNAMENTAL MAST ARMS ARE CURVED AND FLUTED SEE SPECIAL PROVISIONS

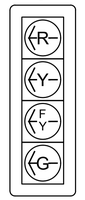
VIDEO DETECTION

KEY	OPERATION	DELAY	PHASE	CAMERA
2	PRESENCE	0 SEC.	2	C2
4	PRESENCE	0 SEC.	4	C1
6	PRESENCE	0 SEC.	6	C4
7	PRESENCE	0 SEC.	7	C1
8	PRESENCE	0 SEC.	8	C3

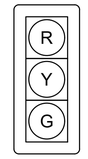
LEGEND

- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE

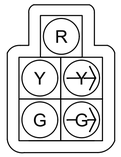
C



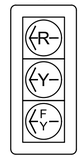
A, B, D, E, F, G, K, L



J



H



ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" NON-LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****

P1-P8





ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).

PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

ACCESSIBLE PEDESTRIAN SIGNALS (APS) SPEECH MESSAGE NOTE:
BUTTONS P4 & P5 SHALL BE PROGRAMMED WITH THE APPROPRIATE SPEECH MESSAGE FOR WALK INDICATING THE STREET CROSSING.

MAST ARM AND STRAIN POLE LOCATION KEY FOR 110 MPH WIND SPEED

NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE	SOIL BORING NO.	SOIL TYPE	FOUNDATION DIAMETER	FOUNDATION DEPTH	TIE BARS
9	117+38.65/27.02' LT	CONVERSE ST/LAUREL ST	25'-0"	B-9	Wet Sand (Loose)	3'-6"	13'-0"	#5 @9"
10	118+18.96/42.09' LT	CONVERSE ST/LAUREL ST	35'-0"	B-10	Wet Sand (Loose)	3'-6"	15'-0"	#5 @9"
11	118+31.32/25.64' RT	CONVERSE ST/LAUREL ST	20'-0"	B-11	Wet Sand (Loose)	3'-6"	11'-6"	#5 @9"
12	117+55.69/44.62' RT	CONVERSE ST/LAUREL ST	25'-0"	B-12	Wet Sand (Loose)	3'-6"	13'-0"	#5 @9"

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

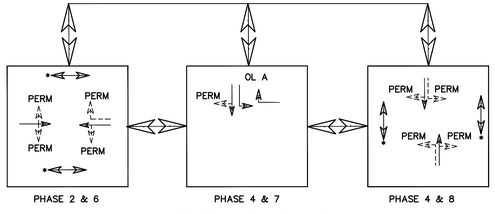
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	61	198
PROJECT FILE NO.	608881		

TRAFFIC SIGNAL PLAN
LOCATION 3
CONVERSE ST AT LAUREL ST

20170404A10_TSP01.DWG Plotted on 24-Jun-2025 11:45 AM

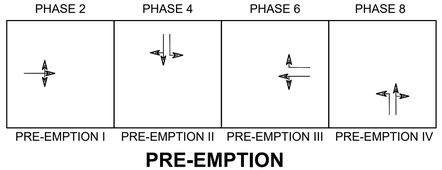
SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	2			4			6			7			8			
				PREEMPTION I			PREEMPTION II			PREEMPTION III						PREEMPTION IV			
				1	2	3	7	8	9	10	11	12	13	14	15	16	17	18	FLASH
MINIMUM GREEN				10			10			10			05			10			EMERGENCY ONLY
PASSAGE TIME				03			03			03			03			03			
MAXIMUM I				30			38			30			08			25			
MAXIMUM II				45			37			45			10			22			
YELLOW CLEAR					03			03			03			03			03		
RED CLEAR						02			02			02			02			02	
WALK				07			07			07						07			
PED CLEAR					12	03		12	03		12	03					12	03	
CONVERSE ST	EB	D, E	2	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
CONVERSE ST	WB	K,L	6	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY
CONVERSE ST	WB R	J	6/A	R	R	R	R	R	R	G	Y	R	R (G)	R (Y)	R	R	R	R	FY
LAUREL ST	NB	F,G	8	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
LAUREL ST	NB L	H	8	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(FY)	(Y)	(R)	(FR)
LAUREL ST	SB	A, B	4	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FR
LAUREL ST	SB L	C	7	(R)	(R)	(R)	(FY)	(Y)	(R)	(R)	(R)	(R)	(G)	(Y)	(R)	(R)	(R)	(R)	(FR)
	E/W	P1,P2	UPON PUSHBUTTON ACTUATION	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
	N/S	P3,P4		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	E/W	P5,P6		DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
	N/S	P7,P8		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				SOFT			OFF			SOFT			OFF			OFF			
DUAL ENTRY				ON			ON			ON			OFF			ON			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM PERM			PERM PERM			PERM PERM			OL A			PERM PERM			



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



PRE-EMPTION

NOTE:

1. A GREEN SIGNAL INDICATION IS TO REMAIN ENERGIZED DURING A CLEARANCE INTERVAL IF THE NEXT PHASE CALLS FOR SAME INDICATION.

2. DURING PED OPERATION, FDW THROUGH YELLOW INTERVAL SHALL BE IN EFFECT EXCEPT WHERE 3 SEC DW BUFFER INTERVAL MUST COINCIDE WITH PART OF THE YELLOW INDICATION.

3. WHEN PED PUSH BUTTON IS ACTIVATED, MIN GREEN IS EQUAL TO (WALK TIME + PED CLEAR TIME) MINUS (YELLOW + ALL RED TIME).

MAX I: ALL OTHER TIMES
MAX II: 2:00PM TO 6:00PM

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION
OL = OVERLAP

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

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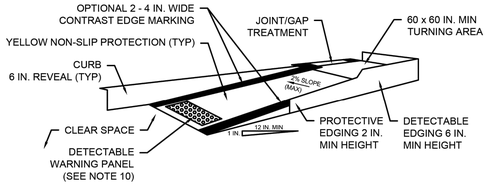
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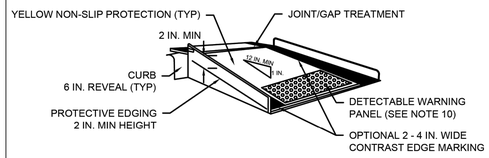
MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.22	1	PULL BOX 13" X 24"
811.31	3	PULL BOX 12" X 12"
816.03	1	SERVICE CONNECTION
	5	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	20' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	2	25' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	1	35' MAST ARM-ORNAMENTAL-STEEL, INCL BASE & FOUNDATION
	10	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	1	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	1	SIGNAL HEAD 1 WAY - 5 SECTION 12" LED LENS
	8	16" LED PEDESTRIAN SIGNAL HEAD
	1	ATC TRAFFIC SIGNAL CONTROLLER - INCLUDING NEMA/ATC 4 DOOR BASE MOUNTED CABINET
	8	ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON, SIGN AND SADDLE
	1	VIDEO DETECTION RACK
	4	VIDEO DETECTOR, VDP AND CABLES
	4	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

20170404A10_TMP01.DWG Plotted on 24-Jun-2025 11:49 AM



TEMPORARY CURB RAMP-PARALLEL TO CURB

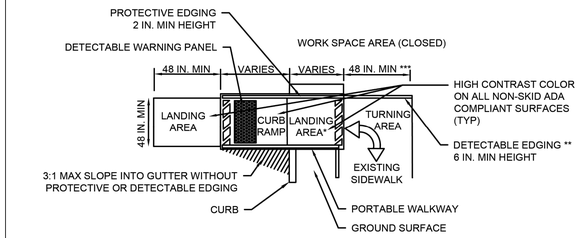


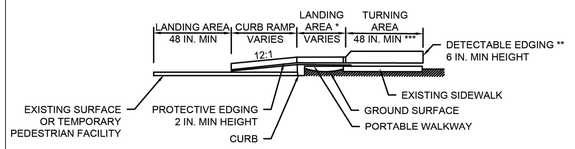
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

NOTES:

1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE, AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAXIMUM CROSS-SLOPE.
6. CLEAR SPACE OF 48 x 48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PANEL MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A DETECTABLE WARNING PANEL SHALL NOT BE INSTALLED ON THE RAMP.

massDOT Highway Division	CONSTRUCTION STANDARDS SECTION 800	TEMPORARY CURB RAMP (1 OF 2)	ISSUE DATE JAN 2025	DRAWING NUMBER 850.1.1

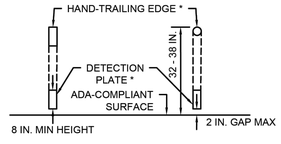




TEMPORARY CURB RAMP

* LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.
** DETECTABLE EDGING REMOVED IF A CONTINUOUS SIDEWALK.
*** 60 IN. MINIMUM IF AN OBSTRUCTION IS AT BACK OF SIDEWALK.

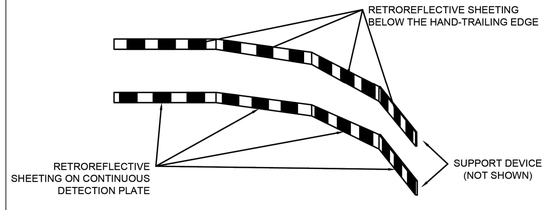
massDOT Highway Division	CONSTRUCTION STANDARDS SECTION 800	TEMPORARY CURB RAMP (2 OF 2)	ISSUE DATE JAN 2025	DRAWING NUMBER 850.1.2



CROSS SECTION VIEW

* THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

STANDARD RETROREFLECTIVE LAYOUT FOR PEDESTRIAN CHANNELIZING DEVICES

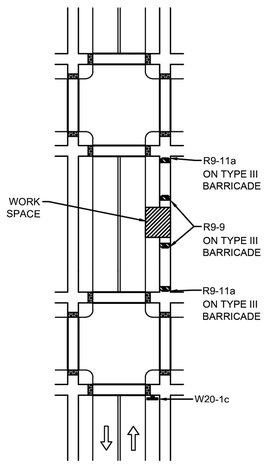


ISOMETRIC VIEW

NOTES:

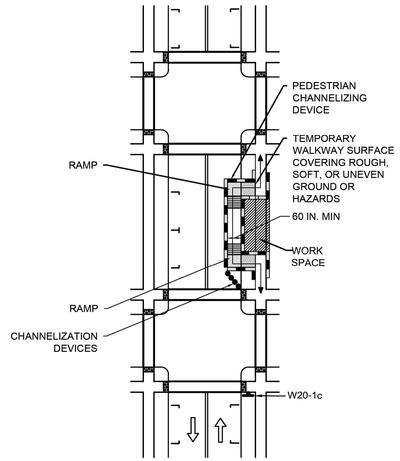
1. A MAXIMUM 2-INCH GAP BETWEEN THE BOTTOM OF THE CONTINUOUS DETECTION PLATE AND THE WALKWAY SURFACE MAY BE USED TO PROVIDE DRAINAGE.
2. HAND-TRAILING EDGE AND DETECTION PLATE ARE OPTIONAL FOR CONTINUOUS WALLS.
3. SUPPORT DEVICE FOR CONTINUOUS DETECTION PLATE AND CONTINUOUS HAND-TRAILING EDGE NOT SHOWN ON THE PLAN.
4. STRIPING ON SHEETING PANELS MAY BE EITHER VERTICAL OR AT A 45-DEGREE ANGLE.
5. RETROREFLECTIVE AREAS CAN BE DISTRIBUTED IN A MANNER THAT ENSURES VISIBILITY AND DETECTION WITHOUT NECESSITATING A SINGLE CONTINUOUS APPLICATION.

massDOT Highway Division	CONSTRUCTION STANDARDS SECTION 800	PEDESTRIAN CHANNELIZING DEVICE	ISSUE DATE JAN 2025	DRAWING NUMBER 851.3.1

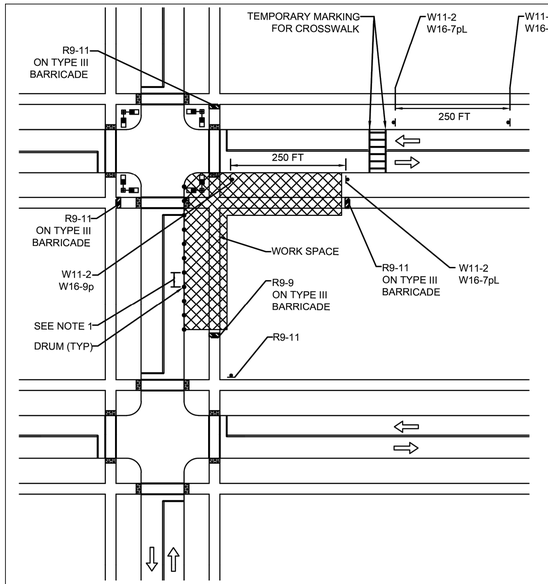


massDOT Highway Division	CONSTRUCTION STANDARDS SECTION 800	SIDEWALK DETOUR	ISSUE DATE JAN 2025	DRAWING NUMBER 852.1.1

20170404A10_TMP01.DWG Plotted on 24-Jun-2025 11:49 AM



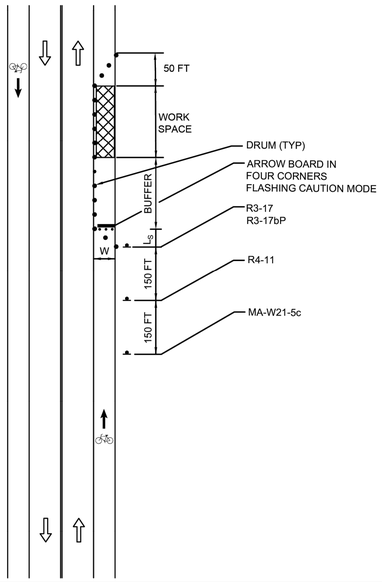
CONSTRUCTION STANDARDS	SIDEWALK DIVERSION	ISSUE DATE	DRAWING NUMBER
SECTION 800		JAN 2025	852.1.2



NOTES:

1. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED IN MPH.

CONSTRUCTION STANDARDS	PEDESTRIAN DETOUR FOR CROSSWALK CLOSURE	ISSUE DATE	DRAWING NUMBER
SECTION 800		JAN 2025	852.1.3



SHOULDER TAPER LENGTHS (L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W) IN FEET		
	4	5	6
25	14	17	21
30	20	25	30
35	27	34	41
40	36	44	53

NOTE: FOR SHOULDER WIDTHS NOT LISTED IN TABLE, USE $L = \frac{WS^2/60}{3}$

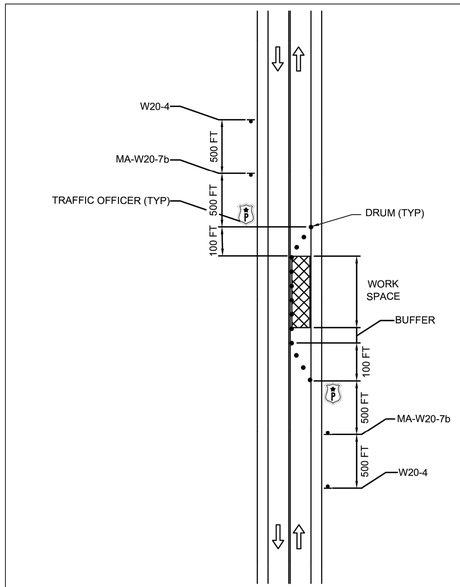
MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
25	155
30	200
35	250
40	305

NOTES:

1. THIS DRAWING IS FOR USE WHERE THE WORK SPACE OCCUPIES A MARKED BIKE LANE BUT DOES NOT ENCROACH UPON THE AUTOMOBILE LANE. IF A WORK SPACE OCCUPIES BOTH A MARKED BIKE LANE AND AN AUTOMOBILE LANE, THEN THE SIGNS SHOWN IN THIS DRAWING SHOULD BE APPLIED IN CONJUNCTION WITH THE RELEVANT DRAWING FOR THE CLOSURE OF THE AUTOMOBILE LANE.
2. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

CONSTRUCTION STANDARDS	BICYCLE LANE CLOSURE	ISSUE DATE	DRAWING NUMBER
SECTION 800		JAN 2025	852.3.1



MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

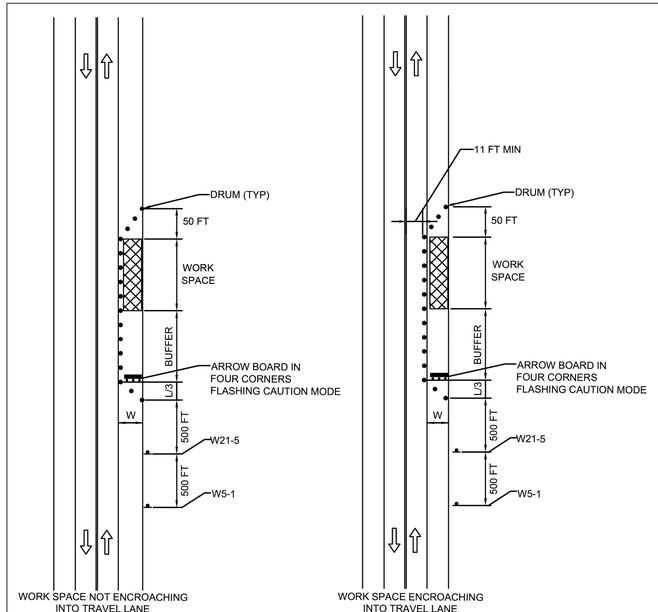
STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
25	155
30	200
35	250
40	305

NOTE:

1. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

CONSTRUCTION STANDARDS	ALTERNATING ONE-WAY (TRAFFIC OFFICER)	ISSUE DATE	DRAWING NUMBER
SECTION 800		JAN 2025	852.4.4

20170404A10_TMP01.DWG Plotted on 24-Jun-2025 11:49 AM



TYPICAL TAPER LENGTHS (L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W_L OR W_S) IN FEET		
	10	11	12
25	104	115	125
30	150	165	180
35	204	225	245
40	267	293	320

NOTE: FOR SHOULDER WIDTHS NOT LISTED IN TABLE, USE $L=\frac{WS^2/60}{3}$

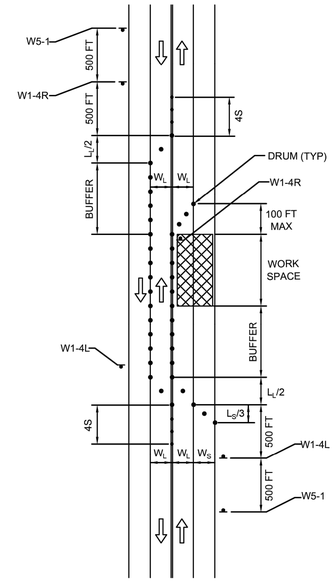
MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
25	155
30	200
35	250
40	305

NOTES:

1. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
2. MINIMUM LANE WIDTH IS TO BE 11 FEET MEASURED FROM THE EDGE OF DRUMS.

MassDOT Highway Division	CONSTRUCTION STANDARDS	TWO LANE ROAD	ISSUE DATE	DRAWING NUMBER
	SECTION 800	SHOULDER CLOSURE	JAN 2025	852.5.3



TYPICAL TAPER LENGTHS (L_L OR L_S) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W_L OR W_S) IN FEET		
	10	11	12
25	104	115	125
30	150	165	180
35	204	225	245
40	267	293	320

NOTE: FOR SHOULDER WIDTHS NOT LISTED IN TABLE, USE $L_S=WS^2/60$

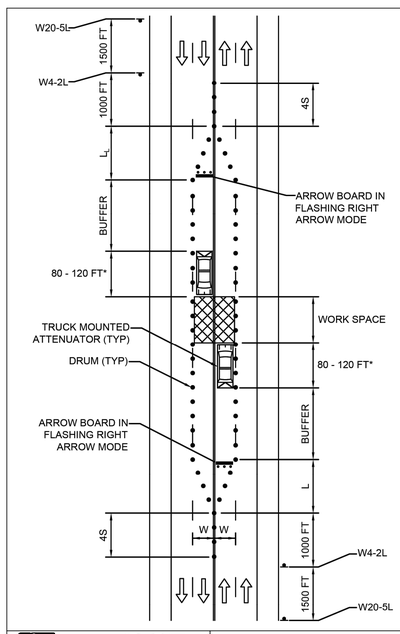
MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
25	155
30	200
35	250
40	305

NOTES:

1. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
2. MINIMUM LANE WIDTH IS TO BE 11 FEET MEASURED FROM THE EDGE OF DRUMS.

MassDOT Highway Division	CONSTRUCTION STANDARDS	TWO LANE ROAD	ISSUE DATE	DRAWING NUMBER
	SECTION 800	HALF ROAD CLOSURE	JAN 2025	852.5.4



TYPICAL TAPER LENGTHS (L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W) IN FEET		
	10	11	12
45	450	495	540
50	500	550	600
55	550	605	660
60	600	660	720

MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

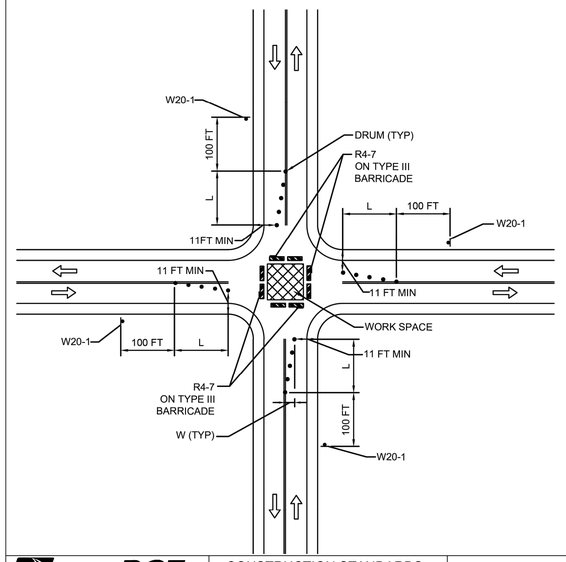
STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
45	360
50	425
55	495
60	570

NOTES:

1. THE FIRST TEN DRUMS OF EACH LANE CLOSURE TAPER SHALL BE MOUNTED WITH SEQUENTIALLY FLASHING LIGHTS IF DEPLOYED BETWEEN DUSK AND DAWN.
2. MAXIMUM DRUM SPACING IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. IN TANGENT SECTIONS, MAXIMUM SPACING IN FEET IS EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH.

* DISTANCE MAY BE INCREASED IF ADDITIONAL ROLL-AHEAD ALLOWANCE IS NEEDED. REFER TO MANUFACTURER'S SPECIFICATIONS.

MassDOT Highway Division	CONSTRUCTION STANDARDS	MULTI-LANE ROAD	ISSUE DATE	DRAWING NUMBER
	SECTION 800	INTERIOR LANES CLOSURE	JAN 2025	852.6.5



TYPICAL TAPER LENGTHS (L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W) IN FEET			
	3	4	5	6
25	16	21	26	31
30	23	30	38	45
35	31	41	51	61
40	40	53	67	80

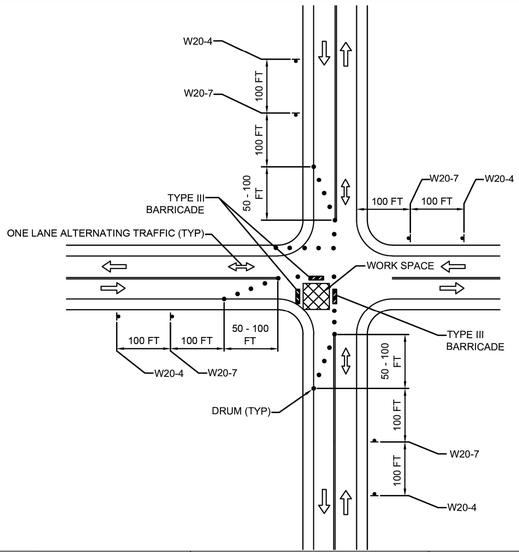
NOTE: FOR OFFSET WIDTHS NOT LISTED IN TABLE, USE $L=\frac{WS^2/60}{2}$

NOTES:

1. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
2. MINIMUM LANE WIDTH IS TO BE 11 FEET MEASURED FROM THE EDGE OF DRUMS TO THE CURB OR EDGE OF PAVEMENT.

MassDOT Highway Division	CONSTRUCTION STANDARDS	INTERSECTION	ISSUE DATE	DRAWING NUMBER
	SECTION 800	CENTER CLOSURE	JAN 2025	852.10.1

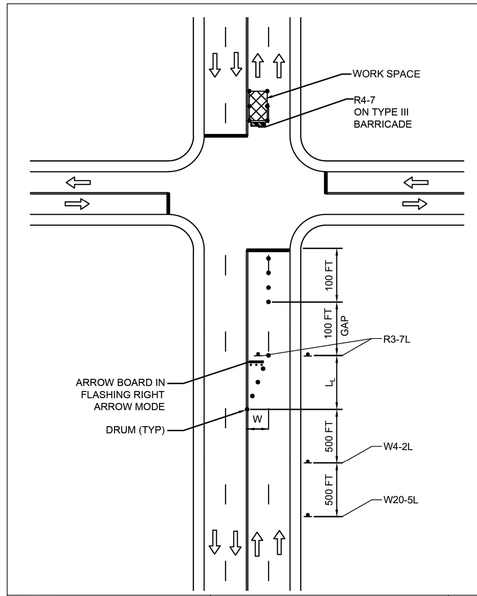
20170404A10_TMP01.DWG Plotted on 24-Jun-2025 11:49 AM



NOTES:

1. FLAGGING REQUIRED FOR ALL ALTERNATING ONE-LANE TRAFFIC.
2. PEDESTRIAN ACCESS MUST BE MAINTAINED AT ALL TIMES.
3. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
4. MINIMUM LANE WIDTH IS TO BE 11 FEET MEASURED FROM THE EDGE OF DRUMS.

CONSTRUCTION STANDARDS	INTERSECTION	ISSUE DATE	DRAWING NUMBER
SECTION 800	QUADRANT CLOSURE	JAN 2025	852.10.2



DRUM PLACEMENT NOTES

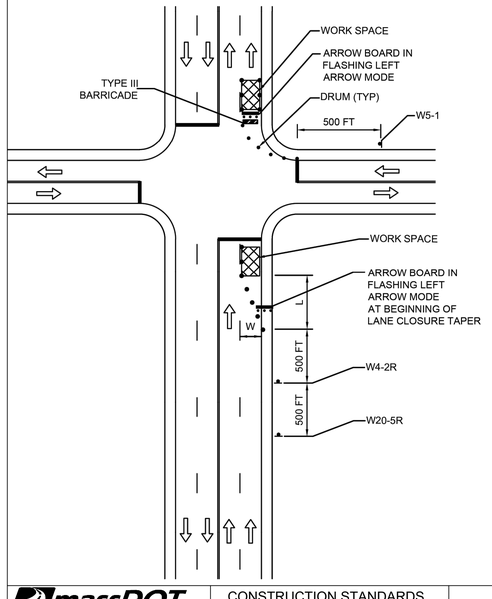
1. THE FIRST TEN DRUMS OF EACH LANE CLOSURE TAPER SHALL BE MOUNTED WITH SEQUENTIALLY FLASHING LIGHTS IF DEPLOYED BETWEEN DUSK AND DAWN.
2. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

TYPICAL TAPER LENGTHS (L_L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W) IN FEET		
	10	11	12
30	150	165	180
35	204	225	245
40	267	293	320

NOTE: FOR SPEEDS OVER 40 MPH, USE L_L = WS

CONSTRUCTION STANDARDS	INTERSECTION	ISSUE DATE	DRAWING NUMBER
SECTION 800	FAR SIDE INSIDE LANE CLOSURE	JAN 2025	852.10.3



DRUM PLACEMENT NOTES

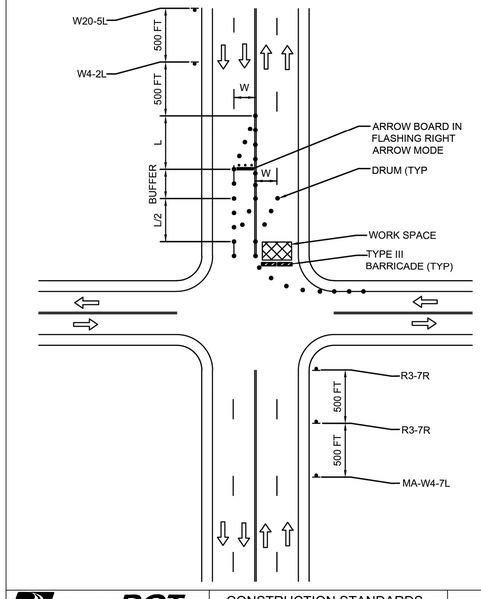
1. THE FIRST TEN DRUMS OF EACH LANE CLOSURE TAPER SHALL BE MOUNTED WITH SEQUENTIALLY FLASHING LIGHTS IF DEPLOYED BETWEEN DUSK AND DAWN.
2. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

TYPICAL TAPER LENGTHS (L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W) IN FEET		
	10	11	12
30	150	165	180
35	204	225	245
40	267	293	320

NOTE: FOR SPEEDS OVER 40 MPH, USE L = WS

CONSTRUCTION STANDARDS	INTERSECTION	ISSUE DATE	DRAWING NUMBER
SECTION 800	FAR SIDE RIGHT LANE CLOSURE	JAN 2025	852.10.4



DRUM PLACEMENT NOTES

1. THE FIRST TEN DRUMS OF EACH CLOSURE TAPER SHALL BE MOUNTED WITH SEQUENTIALLY FLASHING LIGHTS IF DEPLOYED BETWEEN DUSK AND DAWN.
2. MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

TYPICAL TAPER LENGTHS (L) IN FEET

SPEED LIMIT (S) IN MPH	WIDTH OF OFFSET (W) IN FEET		
	10	11	12
30	150	165	180
35	204	225	245
40	267	293	320

NOTE: FOR SPEEDS OVER 40 MPH, USE L = WS

MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
30	200
35	250
40	305

CONSTRUCTION STANDARDS	INTERSECTION	ISSUE DATE	DRAWING NUMBER
SECTION 800	HALF ROAD CLOSURE	JAN 2025	852.10.5

1. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A FLUORESCENT ORANGE COLOR BACKGROUND. W11-1, W16-9P AND W16-7PL SHALL HAVE FLUORESCENT YELLOW-GREEN COLOR BACKGROUND.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	66	198
PROJECT FILE NO.	608881		

TEMPORARY TRAFFIC CONTROL PLANS

TYPICAL CONSTRUCTION SIGNING
N.T.S.

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	ESTIMATED NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
MA-R2-10a	48	36	WORK ZONES SPEEDING FINES DOUBLED	SEE MASSDOT 2016 STANDARD SIGNS BOOK (INCLUDING LATEST REVISIONS)			8	FLRSCNT. ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	12.00	96.00
R9-8	36	18	PEDESTRIAN CROSSWALK	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			8	WHITE	BLACK	BLACK	4.50	36.00
R9-9	24	12	SIDEWALK CLOSED				8	WHITE	BLACK	BLACK	2.00	16.00
R9-10	24	12	SIDEWALK CLOSED USE OTHER SIDE				8	WHITE	BLACK	BLACK	2.00	16.00
R9-11L	24	12	SIDEWALK CLOSED AHEAD CROSS HERE				8	WHITE	BLACK	BLACK	2.00	16.00
R9-11R	24	12	SIDEWALK CLOSED AHEAD CROSS HERE				8	WHITE	BLACK	BLACK	2.00	16.00
R9-11aL	24	12	SIDEWALK CLOSED CROSS HERE				8	WHITE	BLACK	BLACK	2.00	16.00
R9-11aR	24	12	SIDEWALK CLOSED CROSS HERE				8	WHITE	BLACK	BLACK	2.00	16.00
R4-7	24	30					2	WHITE	BLACK	BLACK	5.00	10.00
W1-4L	36	36					2	FLRSCNT. ORANGE	BLACK	BLACK	9.00	18.00
W1-4R	36	36					2	FLRSCNT. ORANGE	BLACK	BLACK	9.00	18.00
W4-2L	36	36					2	FLOUR. ORANGE	BLACK	BLACK	9.00	18.00
MA-W4-7L	36	36	THRU TRAFFIC MERGE LEFT	SEE MASSDOT 2016 STANDARD SIGNS BOOK (INCLUDING LATEST REVISIONS)			1	FLOUR. ORANGE	BLACK	BLACK	9.00	9.00
W5-1	36	36	ROAD NARROWS	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			4	FLRSCNT. ORANGE	BLACK	BLACK	9.00	36.00
W11-2	30	30					8	FLRSCNT. ORANGE	BLACK	BLACK	6.25	50.00
W13-1P	24	24	XX M.P.H.				2	FLRSCNT. ORANGE	BLACK	BLACK	4.00	8.00
W16-1p	18	24	SHARE THE ROAD				1	FLRSCNT. ORANGE	BLACK	BLACK	2.00	2.00
W16-7PL	24	12					8	FLRSCNT. YELLOW-GREEN	BLACK	BLACK	2.00	16.00
W16-9P	24	12	AHEAD				8	FLRSCNT. YELLOW-GREEN	BLACK	BLACK	2.00	16.00
W20-1	36	36	ROAD WORK AHEAD				18	FLRSCNT. ORANGE	BLACK	BLACK	9.00	162.00
W20-4	36	36	ONE LANE ROAD AHEAD				1	FLOUR. ORANGE	BLACK	BLACK	9.00	9.00
W20-7a	36	36		SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			2	FLOUR. ORANGE	BLACK	BLACK	9.00	18.00
MA-W20-7b	36	36	POLICE OFFICER AHEAD	SEE MASSDOT 2016 STANDARD SIGNS BOOK (INCLUDING LATEST REVISIONS)			4	FLOUR. ORANGE	BLACK	BLACK	9.00	36.00
MA-R2-10e (ORANGE) / MA-R2-10e (WHITE)	36	48	END ROAD WORK / DOUBLE FINES END				18	FLRSCNT. ORANGE/ WHITE	BLACK	BLACK	12.00	216.00
R3-7R	30	30	RIGHT LANE MUST TURN RIGHT	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	WHITE	BLACK	BLACK	6.25	6.25
R3-7L	30	30	LEFT LANE MUST TURN LEFT				1	WHITE	BLACK	BLACK	6.25	6.25
R11-2e	48	30	BIKE LANE CLOSED				1	WHITE	BLACK	BLACK	10.00	10.00
R3-17	24	18	BIKE LANE				1	WHITE	BLACK	BLACK	3.00	3.00
R3-17bp	24	8	ENDS				1	WHITE	BLACK	BLACK	1.33	1.33
R4-11	30	30	MAY USE FULL LANE				1	WHITE	BLACK	BLACK	6.25	6.25
W11-1	36	36					1	FLRSCNT. YELLOW-GREEN	BLACK	BLACK	9.00	9.00
W21-5C	36	36	BIKE LANE CLOSED AHEAD				1	FLRSCNT. ORANGE	BLACK	BLACK	9.00	9.00
W21-5b	36	36	RIGHT SHOULDER CLOSED AHEAD				1	FLRSCNT. ORANGE	BLACK	BLACK	9.00	9.00
W21-5a	36	36	RIGHT SHOULDER CLOSED				1	FLRSCNT. ORANGE	BLACK	BLACK	9.00	9.00

20170404A10_TMP02.DWG Plotted on 24-Jun-2025 11:47 AM

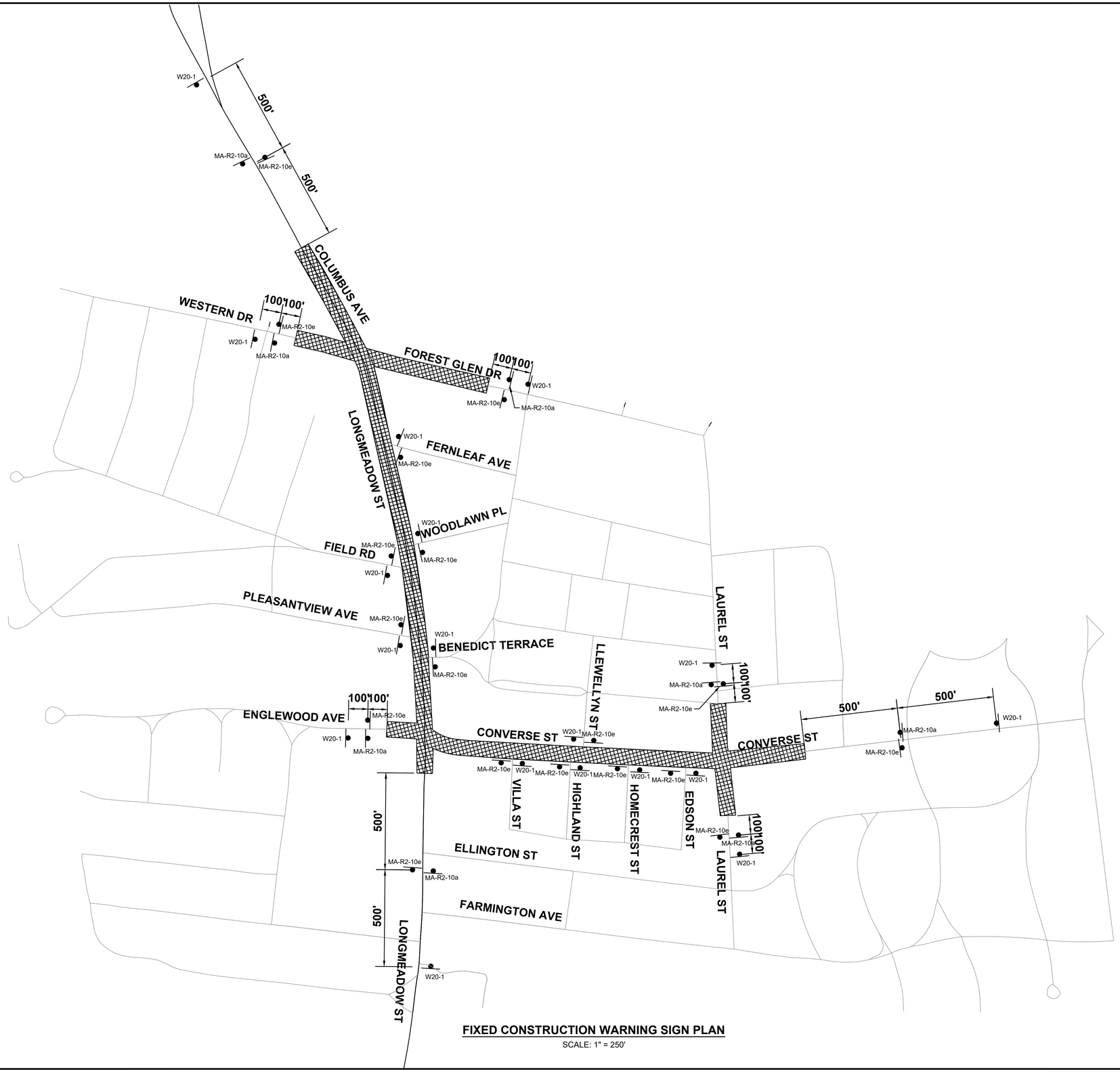
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	67	198
PROJECT FILE NO.	608881		

TEMPORARY TRAFFIC CONTROL PLANS

N

NAD 83



FIXED CONSTRUCTION WARNING SIGN PLAN

SCALE: 1" = 250'

Plotted on 24-Jun-2025 11:47 AM

20170404A10_TMP02.DWG

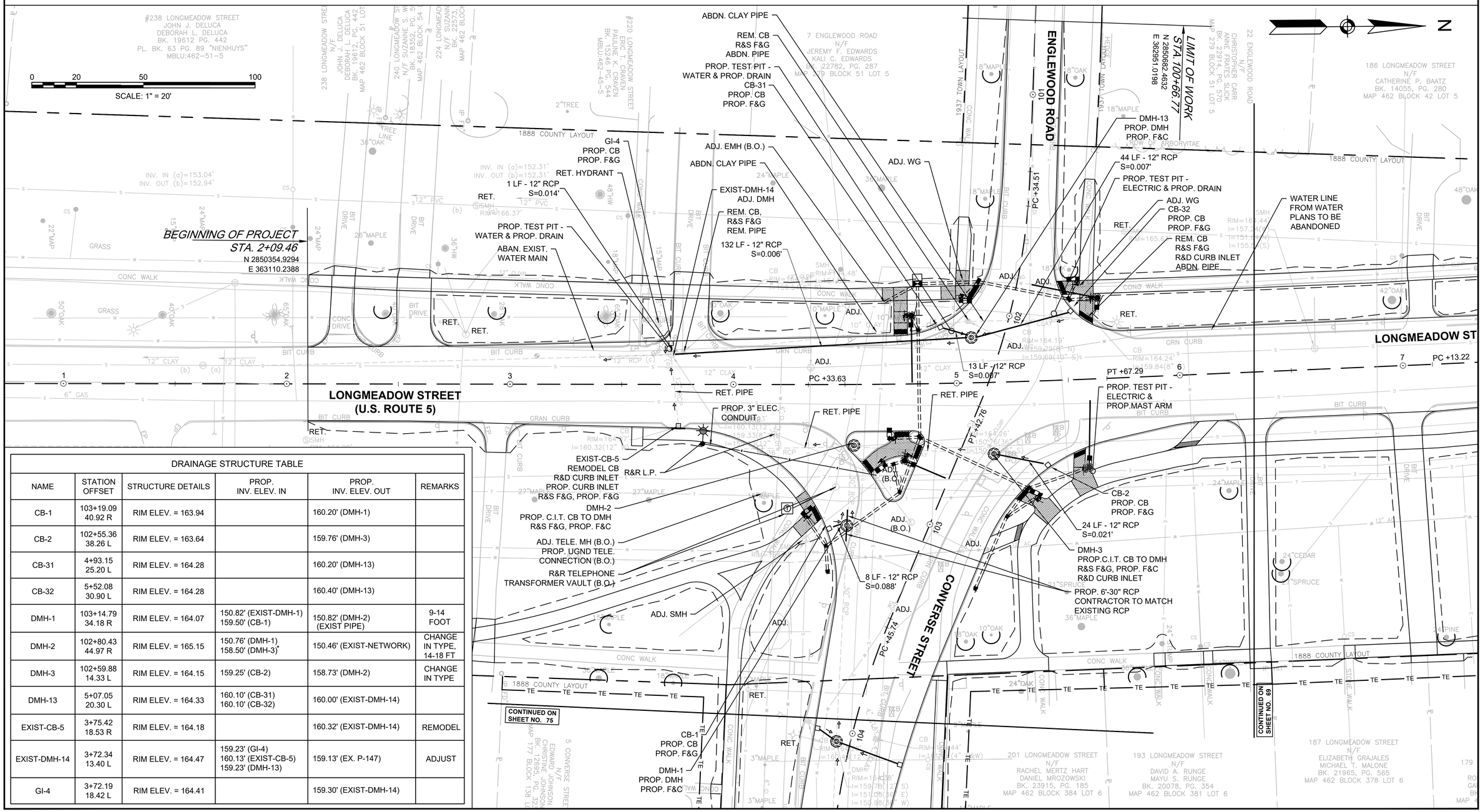
NOTES:

1. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS.
2. IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF NEW PIPE TRENCH EXCAVATION, THEN THE REMOVAL COST OF THE OLD PIPES SHALL BE INCLUDED IN THE UNIT COST FOR THE NEW PIPE THAT IS BEING INSTALLED. IF PIPES SHOWN TO BE REMOVED ARE OUTSIDE THE LIMITS OF NEW PIPE TRENCH (AS DETERMINED BY THE ENGINEER), THEN REMOVAL COST SHALL BE PAID UNDER ITEM 141. CLASS A TRENCH EXCAVATION.
3. IF EXISTING ABANDONED PIPES ARE WITHIN THE LIMITS OF A NEW DRAINAGE STRUCTURE, THEN THE PIPE SHOULD BE CUT AND CAPPED AND THIS COST SHALL BE INCLUDED WITH THE STRUCTURE ITEM.
4. THE TOWN OF LONGMEADOW IS CURRENTLY REPLACING EXISTING WATER MAINS AND PERFORMING TRENCHLESS REHAB OF SEWER THROUGHOUT THE LIMITS OF WORK. ALL PROPOSED WORK SHALL BE COORDINATED WITH THE TOWN'S CONTRACTOR (LUDLOW CONSTRUCTION) PRIOR TO COMMENCING CONSTRUCTION.
5. ALL PROPOSED (NEW) CATCH BASINS SHALL HAVE 4' SUMPS.
6. ALL CATCH BASINS WITHIN THE PAVED ROADWAY SHALL HAVE CASCADE STYLE/BICYCLE SAFE GRATES UNLESS OTHERWISE NOTED ON THE PLANS.
7. ALL ELEVATIONS, STATIONS, AND OFFSETS FOR ALL CATCH BASINS, DRAINAGE MANHOLES, AND SEWER MANHOLES COME FROM CENTER OF COVER OR GRATE.
8. CONTRACTOR SHALL USE APPROPRIATELY SIZED RCP TO MATCH INTO EXISTING PIPES AS SHOWN.
9. "*" SYMBOL IN THE DRAINAGE TABLES INDICATES CONTRACTOR TO VERIFY INVERT IN FIELD.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	68	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS



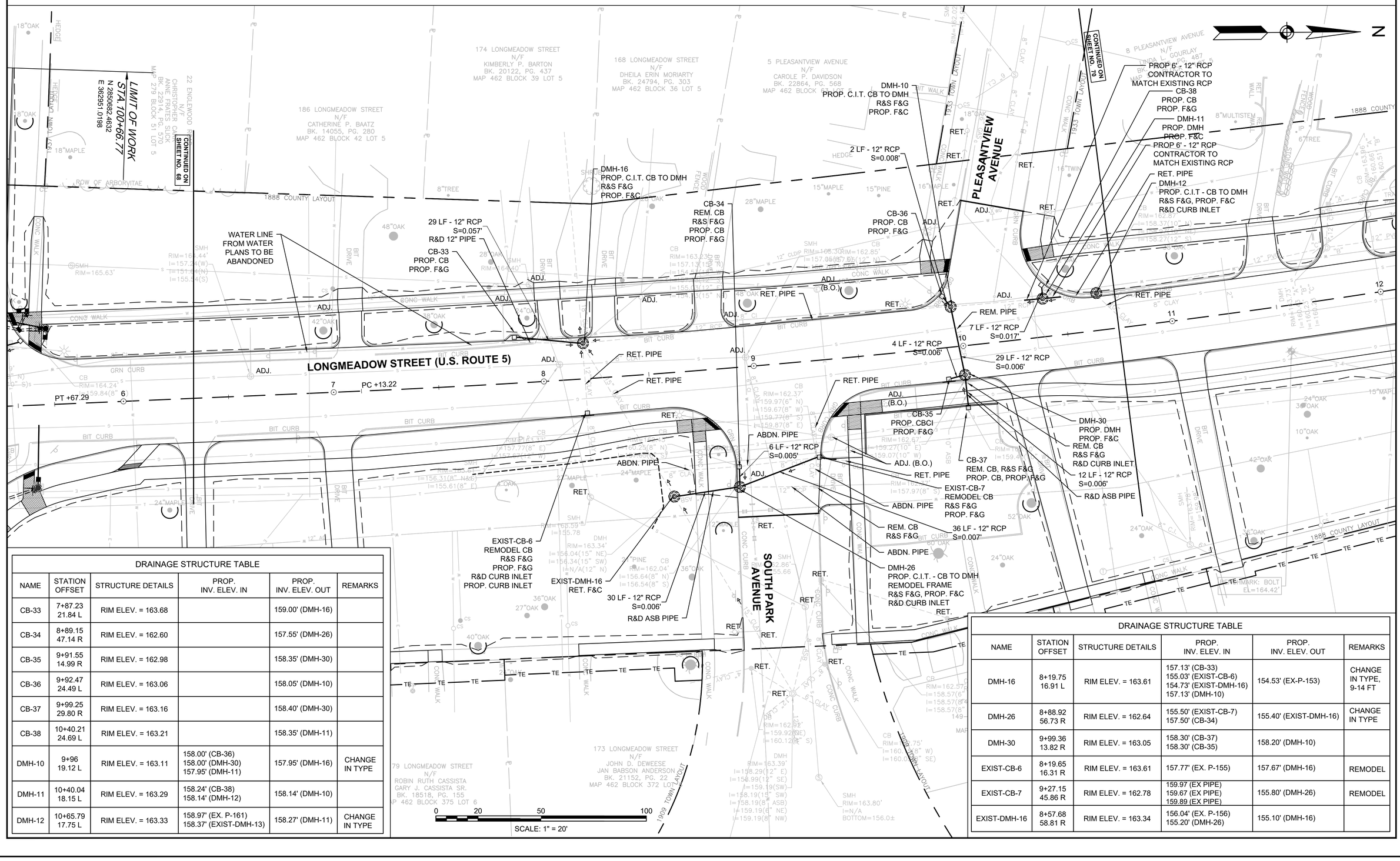
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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	69	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:02 PM



DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-33	7+87.23 21.84 L	RIM ELEV. = 163.68		159.00' (DMH-16)	
CB-34	8+89.15 47.14 R	RIM ELEV. = 162.60		157.55' (DMH-26)	
CB-35	9+91.55 14.99 R	RIM ELEV. = 162.98		158.35' (DMH-30)	
CB-36	9+92.47 24.49 L	RIM ELEV. = 163.06		158.05' (DMH-10)	
CB-37	9+99.25 29.80 R	RIM ELEV. = 163.16		158.40' (DMH-30)	
CB-38	10+40.21 24.69 L	RIM ELEV. = 163.21		158.35' (DMH-11)	
DMH-10	9+96 19.12 L	RIM ELEV. = 163.11	158.00' (CB-36) 158.00' (DMH-30) 157.95' (DMH-11)	157.95' (DMH-16)	CHANGE IN TYPE
DMH-11	10+40.04 18.15 L	RIM ELEV. = 163.29	158.24' (CB-38) 158.14' (DMH-12)	158.14' (DMH-10)	
DMH-12	10+65.79 17.75 L	RIM ELEV. = 163.33	158.97' (EX. P-161) 158.37' (EXIST-DMH-13)	158.27' (DMH-11)	CHANGE IN TYPE

DRAINAGE STRUCTURE TABLE

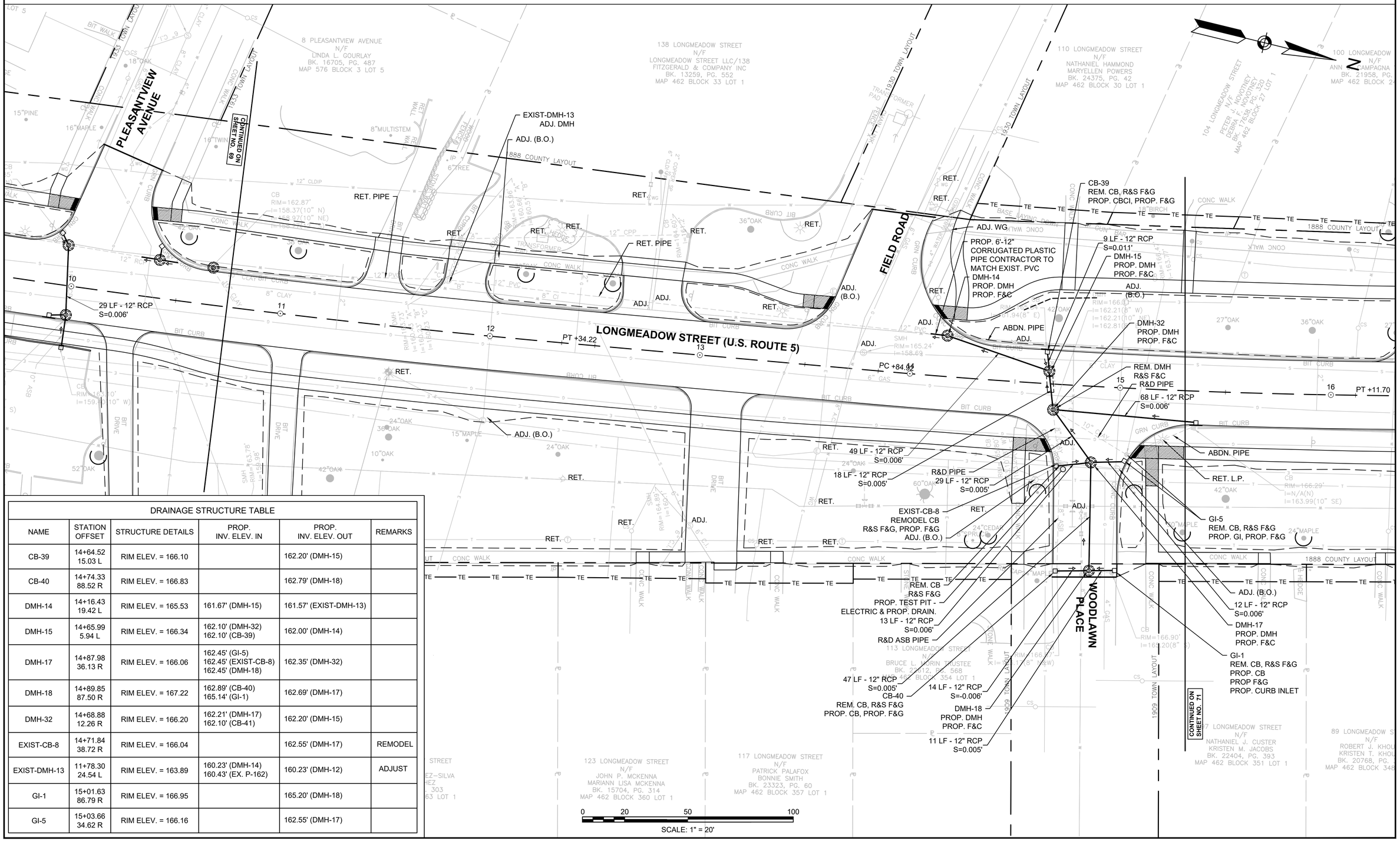
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
DMH-16	8+19.75 16.91 L	RIM ELEV. = 163.61	157.13' (CB-33) 155.03' (EXIST-CB-6) 154.73' (EXIST-DMH-16) 157.13' (DMH-10)	154.53' (EX-P-153)	CHANGE IN TYPE, 9-14 FT
DMH-26	8+88.92 56.73 R	RIM ELEV. = 162.64	155.50' (EXIST-CB-7) 157.50' (CB-34)	155.40' (EXIST-DMH-16)	CHANGE IN TYPE
DMH-30	9+99.36 13.82 R	RIM ELEV. = 163.05	158.30' (CB-37) 158.30' (CB-35)	158.20' (DMH-10)	
EXIST-CB-6	8+19.65 16.31 R	RIM ELEV. = 163.61	157.77' (EX. P-155)	157.67' (DMH-16)	REMODEL
EXIST-CB-7	9+27.15 45.86 R	RIM ELEV. = 162.78	159.97 (EX PIPE) 159.67 (EX PIPE) 159.89 (EX PIPE)	155.80' (DMH-26)	REMODEL
EXIST-DMH-16	8+57.68 58.81 R	RIM ELEV. = 163.34	156.04' (EX. P-156) 155.20' (DMH-26)	155.10' (DMH-16)	

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	70	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:03 PM



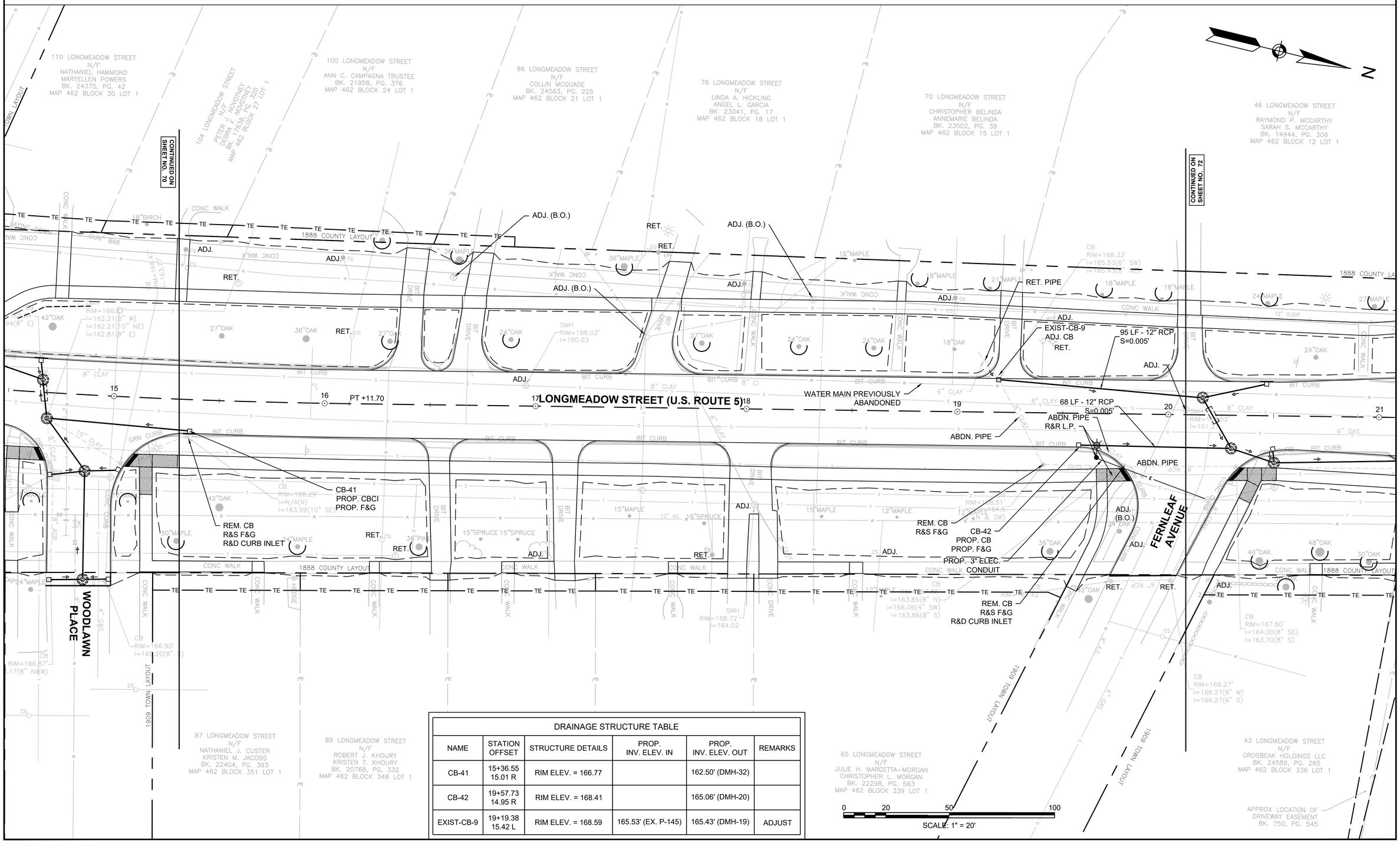
DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-39	14+64.52 15.03 L	RIM ELEV. = 166.10		162.20' (DMH-15)	
CB-40	14+74.33 88.52 R	RIM ELEV. = 166.83		162.79' (DMH-18)	
DMH-14	14+16.43 19.42 L	RIM ELEV. = 165.53	161.67' (DMH-15)	161.57' (EXIST-DMH-13)	
DMH-15	14+65.99 5.94 L	RIM ELEV. = 166.34	162.10' (DMH-32) 162.10' (CB-39)	162.00' (DMH-14)	
DMH-17	14+87.98 36.13 R	RIM ELEV. = 166.06	162.45' (GI-5) 162.45' (EXIST-CB-8) 162.45' (DMH-18)	162.35' (DMH-32)	
DMH-18	14+89.85 87.50 R	RIM ELEV. = 167.22	162.89' (CB-40) 165.14' (GI-1)	162.69' (DMH-17)	
DMH-32	14+68.88 12.26 R	RIM ELEV. = 166.20	162.21' (DMH-17) 162.10' (CB-41)	162.20' (DMH-15)	
EXIST-CB-8	14+71.84 38.72 R	RIM ELEV. = 166.04		162.55' (DMH-17)	REMODEL
EXIST-DMH-13	11+78.30 24.54 L	RIM ELEV. = 163.89	160.23' (DMH-14) 160.43' (EX. P-162)	160.23' (DMH-12)	ADJUST
GI-1	15+01.63 86.79 R	RIM ELEV. = 166.95		165.20' (DMH-18)	
GI-5	15+03.66 34.62 R	RIM ELEV. = 166.16		162.55' (DMH-17)	

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	71	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:04 PM



DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-41	15+36.55 15.01 R	RIM ELEV. = 166.77		162.50' (DMH-32)	
CB-42	19+57.73 14.95 R	RIM ELEV. = 168.41		165.06' (DMH-20)	
EXIST-CB-9	19+19.38 15.42 L	RIM ELEV. = 168.59	165.53' (EX. P-145)	165.43' (DMH-19)	ADJUST

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-43	20+46.51 15.02 L	RIM ELEV. = 168.39		165.11' (DMH-19)	
CB-44	20+49.80 15.71 R	RIM ELEV. = 168.23		164.75' (DMH-21)	
CB-45	22+52.51 24.19 L	RIM ELEV. = 167.60		163.45' (DMH-22)	
DMH-19	20+16.23 8.16 L	RIM ELEV. = 168.56	164.94' (CB-43) 164.94' (EXIST-CB-9)	164.84' (DMH-20)	
DMH-20	20+30.02 15.72 R	RIM ELEV. = 168.30	164.70' (DMH-19) 164.70' (CB-42)	164.60' (DMH-21)	
DMH-21	20+50.40 22.27 R	RIM ELEV. = 168.81	164.50' (DMH-20) 164.69' (CB-44)	164.40' (DMH-22)	
DMH-22	22+69.15 16.40 R	RIM ELEV. = 167.80	163.22' (GI-2) 163.22' (CB-45) 163.12' (DMH-21)	163.02' (DMH-23)	CHANGE IN TYPE
GI-2	22+71.27 27.69 R	RIM ELEV. = 167.49		163.15' (DMH-22)	

0 20 50 100

SCALE: 1" = 20'

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	72	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

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N

LIMIT OF WORK
STA. 401+00
N: 2852564.3249
E: 862686.5166

WESTERN DRIVE

LONGMEADOW STREET (U.S. ROUTE 5)

FERNLEAF AVENUE

FOREST GLEN ROAD

CONTINUED ON SHEET NO. 71

CONTINUED ON SHEET NO. 73

DMH-19
PROP. DMH
PROP. F&C

29 LF - 12" RCP
S=0.005'

CB-43
PROP. CBCI
PROP. F&G

RET.

ADJ.

PROP. 3" ELEC. CONDUIT

R&R L.P.

RET.

ADJ. (B.O.)

26 LF - 12" RCP
S=0.005'

ADJ. (B.O.)

217 LF - 12" RCP
S=0.006'

CB-44
PROP. CB
PROP. F&G

3 LF - 12" RCP
S=0.009'

DMH-21
PROP. DMH
PROP. F&C

17 LF - 12" RCP
S=0.005'

DMH-20
PROP. DMH
PROP. F&C

REM. CB
R&S F&G
R&D CURB INLET

ABDN. PIPE

ABDN. PIPE

CB-45
PROP. CB
PROP. F&G

REM. CB
R&S F&G

44 LF - 12" RCP
S=0.005'

PROP. TEST PIT

ADJ.

PROP. TEST PIT

ADJ.

ADJ. (B.O.)

166 LF - 12" RCP
S=0.005'

DMH-22
PROP. C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

11 LF - 12" RCP
S=-0.006'

GI-2
PROP. GUTTER INLET
PROP. F&G
PROP. CURB INLET

ABDN. PIPE

REMOVE SMH
REM. CB
R&S F&G

RET. L.P.

PROP. TEST PIT

REMODEL SMH

ADJ.

ADJ. (B.O.)

1888 COUNTY LAYOUT

1909 TOWN LAYOUT

1931 TOWN/CITY LAYOUT

46 LONGMEADOW STREET
N/F
RAYMOND P. MCCARTHY
SARAH S. MCCARTHY
BK. 14944, PG. 306
MAP 462 BLOCK 12 LOT 1

26 LONGMEADOW STREET
N/F
ANDREW E. FINN
KAREN M. FINN
BK. 22156, PG. 250
MAP 462 BLOCK 6 LOT 1

12 LONGMEADOW STREET
N/F
MAUREEN MULCAHY
BK. 21249, PG. 95
MAP 462 BLOCK 3 LOT 1

WESTERN DRIVE
N/F
JOSEPH S. KENNEDY
ELIZABETH S. KENNEDY
BK. 9544, PG. 559
MAP 462 BLOCK 3 LOT 1

17 LONGMEADOW STREET
N/F
PHILLIP O'BRIEN
ANGELA O'BRIEN
BK. 24548, PG.200
MAP 462 BLOCK 327 LOT 1

43 LONGMEADOW STREET
N/F
GROSBEAK HOLDINGS LLC
BK. 24589, PG. 265
MAP 462 BLOCK 336 LOT 1

41 LONGMEADOW STREET
N/F
JERRE W. HOFFMAN
ALICE R. HOFFMAN
BK. 3592, PG. 259
MAP 462 BLOCK 333 LOT 1

27 LONGMEADOW STREET
N/F
JOSHUA VINOCOUR
JILL VINOCOUR
BK. 23650, PG. 583
MAP 462 BLOCK 330 LOT 1

11 FOREST GLEN ROAD
N/F
MARIA LI HAHN
BK. 24284, PG. 61
MAP 327 BLOCK 3 LOT 1

APPROX LOCATION OF DRIVEWAY EASEMENT
BK. 750, PG. 545

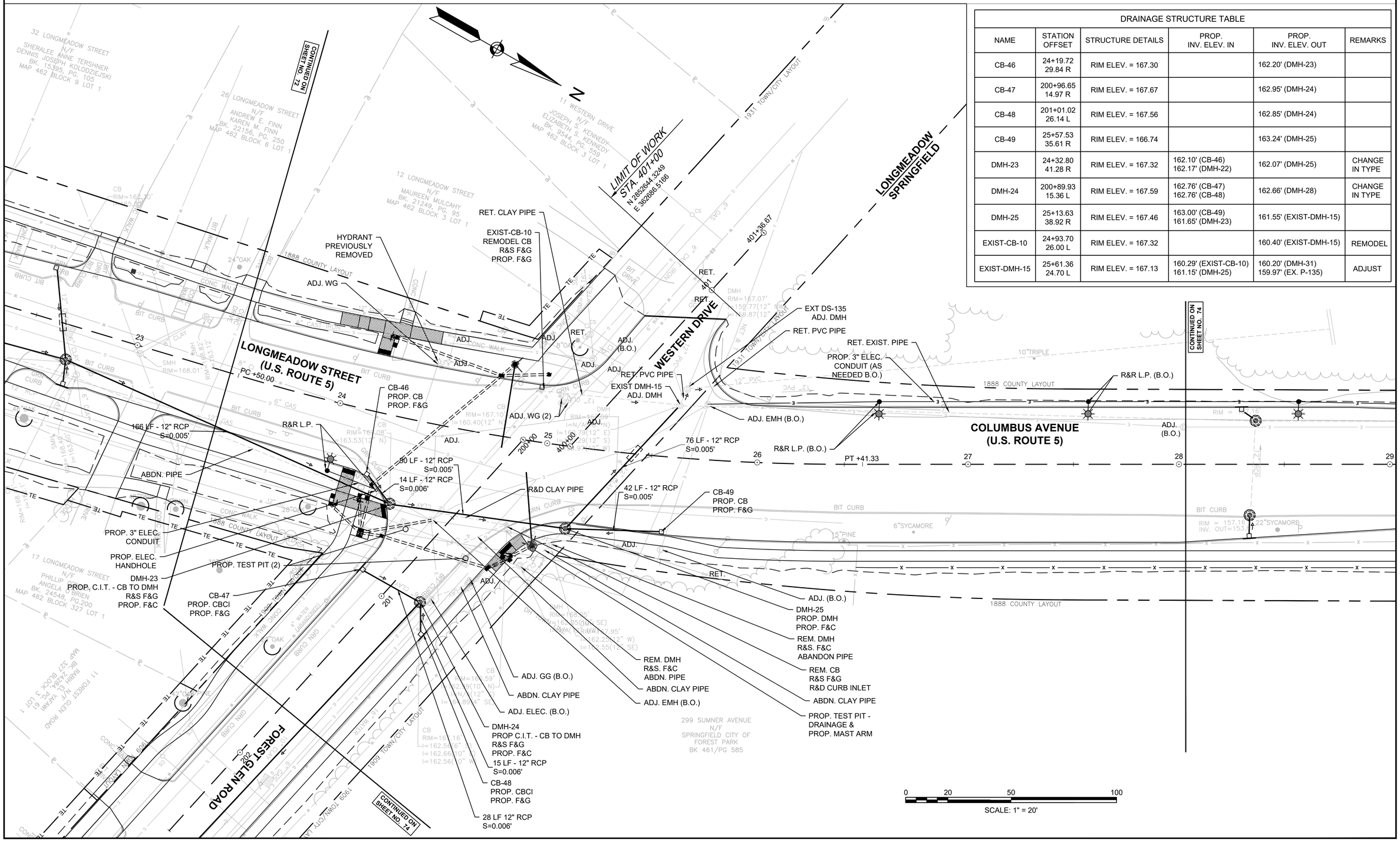
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	73	198
	PROJECT FILE NO.	608881	

DRAINAGE & UTILITY PLANS

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DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-46	24+19.72 29.84 R	RIM ELEV. = 167.30		162.20' (DMH-23)	
CB-47	200+96.65 14.97 R	RIM ELEV. = 167.67		162.95' (DMH-24)	
CB-48	201+01.02 26.14 L	RIM ELEV. = 167.56		162.85' (DMH-24)	
CB-49	25+57.53 35.61 R	RIM ELEV. = 166.74		163.24' (DMH-25)	
DMH-23	24+32.80 41.28 R	RIM ELEV. = 167.32	162.10' (CB-46) 162.17' (DMH-22)	162.07' (DMH-25)	CHANGE IN TYPE
DMH-24	200+89.93 15.36 L	RIM ELEV. = 167.59	162.76' (CB-47) 162.76' (CB-48)	162.66' (DMH-28)	CHANGE IN TYPE
DMH-25	25+13.63 38.92 R	RIM ELEV. = 167.46	163.00' (CB-49) 161.65' (DMH-23)	161.55' (EXIST-DMH-15)	
EXIST-CB-10	24+93.70 26.00 L	RIM ELEV. = 167.32		160.40' (EXIST-DMH-15)	REMODEL
EXIST-DMH-15	25+61.36 24.70 L	RIM ELEV. = 167.13	160.29' (EXIST-CB-10) 161.15' (DMH-25)	160.20' (DMH-31) 159.97' (EX. P-135)	ADJUST



LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

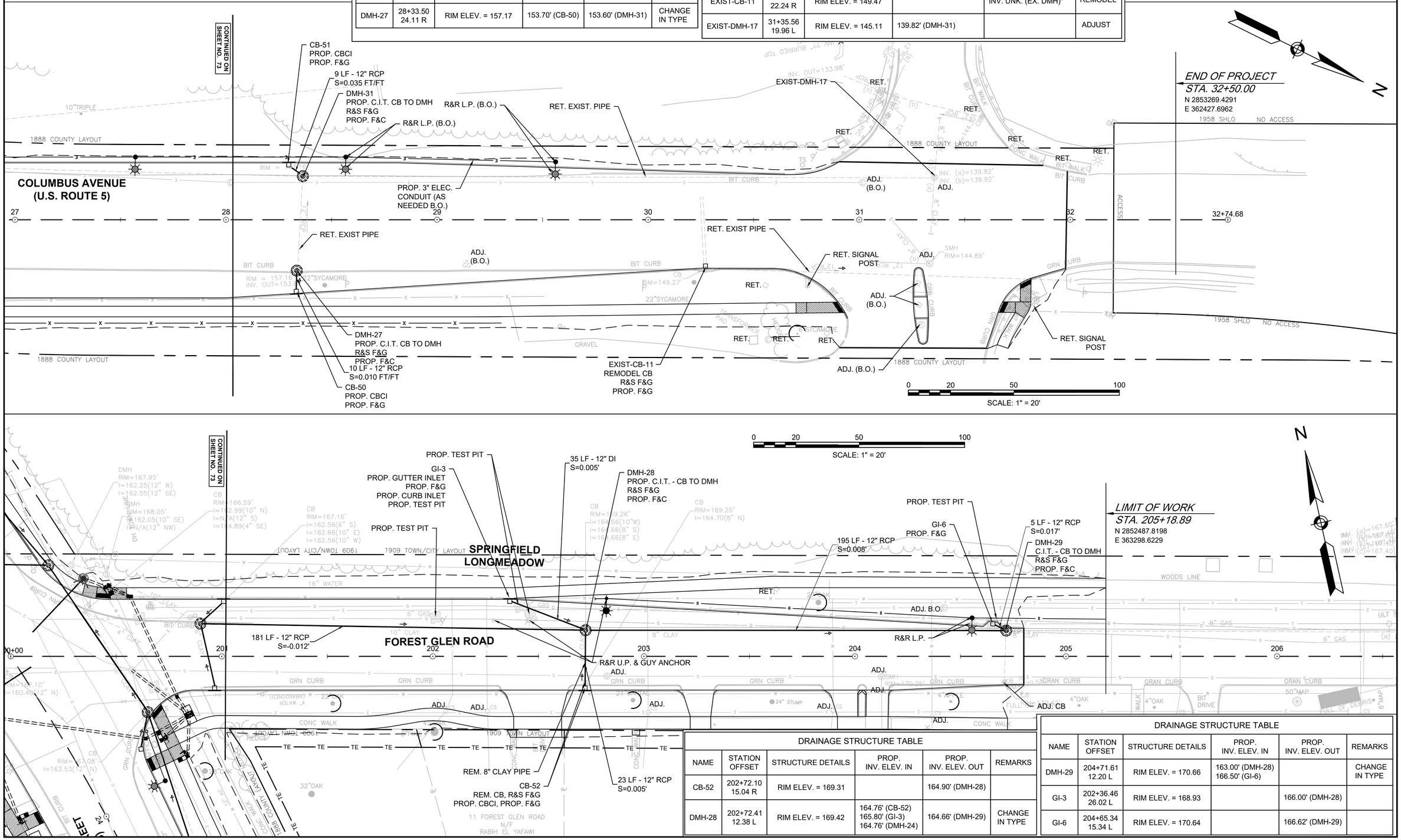
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	74	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:10 PM

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-50	28+33.31 33.92 R	RIM ELEV. = 157.03		153.80' (DMH-27)	
CB-51	28+29.71 25.96 L	RIM ELEV. = 157.40		153.70' (DMH-31)	
DMH-27	28+33.50 24.11 R	RIM ELEV. = 157.17	153.70' (CB-50)	153.60' (DMH-31)	CHANGE IN TYPE

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
DMH-31	28+36.31 20.50 L	RIM ELEV. = 157.18	153.40' (DMH-27) 153.40' (CB-51) 153.40' (EXIST-DMH-15)	153.20' (EXIST-DMH-17)	CHANGE IN TYPE
EXIST-CB-11	30+27.10 22.24 R	RIM ELEV. = 149.47		INV. UNK. (EX. DMH)*	REMODEL
EXIST-DMH-17	31+35.56 19.96 L	RIM ELEV. = 145.11	139.82' (DMH-31)		ADJUST



DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-52	202+72.10 15.04 R	RIM ELEV. = 169.31		164.90' (DMH-28)	
DMH-28	202+72.41 12.38 L	RIM ELEV. = 169.42	164.76' (CB-52) 165.80' (GI-3) 164.76' (DMH-24)	164.66' (DMH-29)	CHANGE IN TYPE

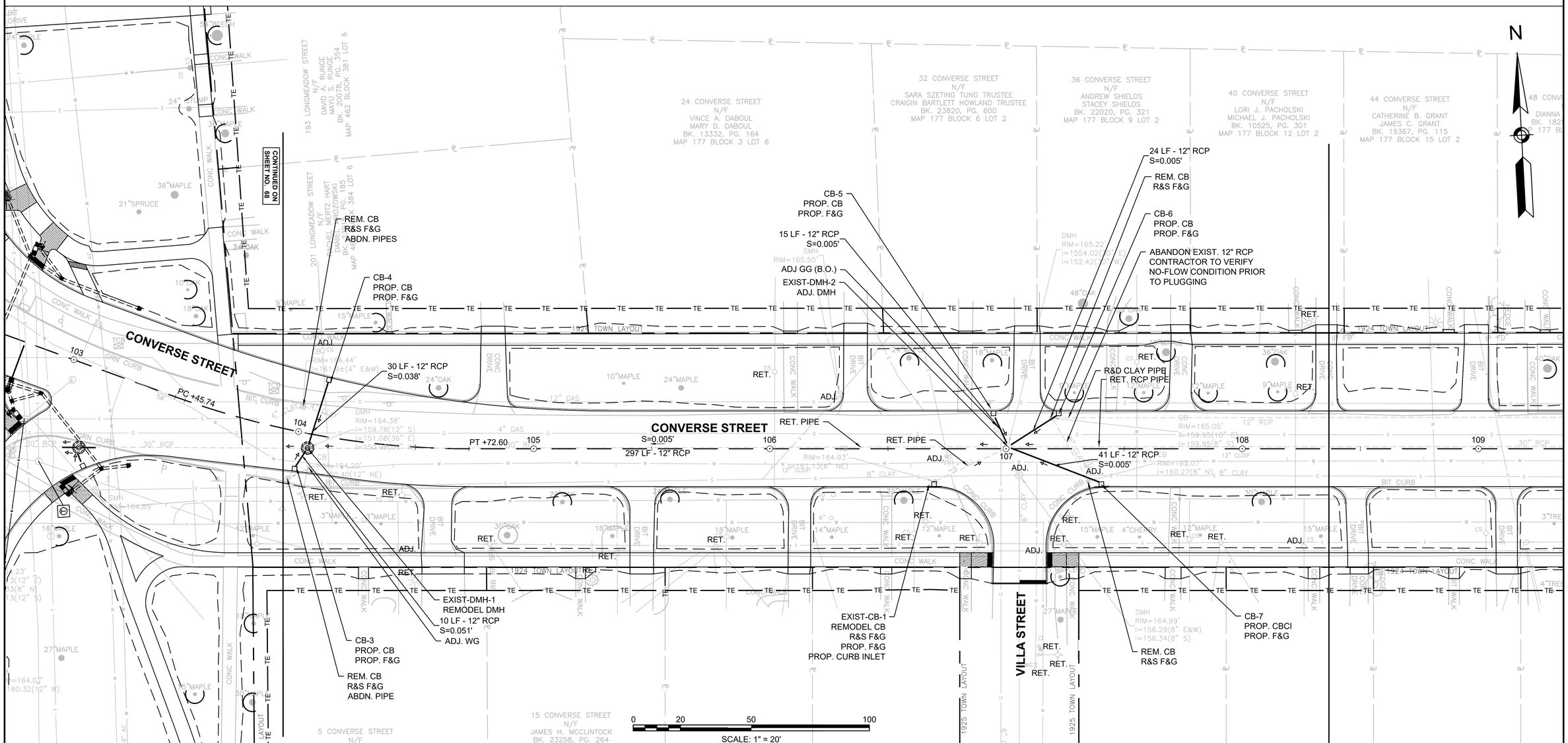
DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
DMH-29	204+71.61 12.20 L	RIM ELEV. = 170.66	163.00' (DMH-28) 166.50' (GI-6)		CHANGE IN TYPE
GI-3	202+36.46 26.02 L	RIM ELEV. = 168.93		166.00' (DMH-28)	
GI-6	204+65.34 15.34 L	RIM ELEV. = 170.64		166.62' (DMH-29)	

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	75	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

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DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-3	104+01.44 15.75 R	RIM ELEV. = 164.89		160.30' (EXIST-DMH-1)	
CB-4	104+08.94 23.90 L	RIM ELEV. = 164.77		159.83' (EXIST-DMH-1)	
CB-5	106+94.70 14.98 L	RIM ELEV. = 164.50		159.37' (EXIST-DMH-2)	
CB-6	107+22.35 14.96 L	RIM ELEV. = 164.43		159.97' (EXIST-DMH-2)	
CB-7	107+40.38 15.02 R	RIM ELEV. = 164.43		160.40' (EXIST-DMH-2)	

DRAINAGE STRUCTURE TABLE

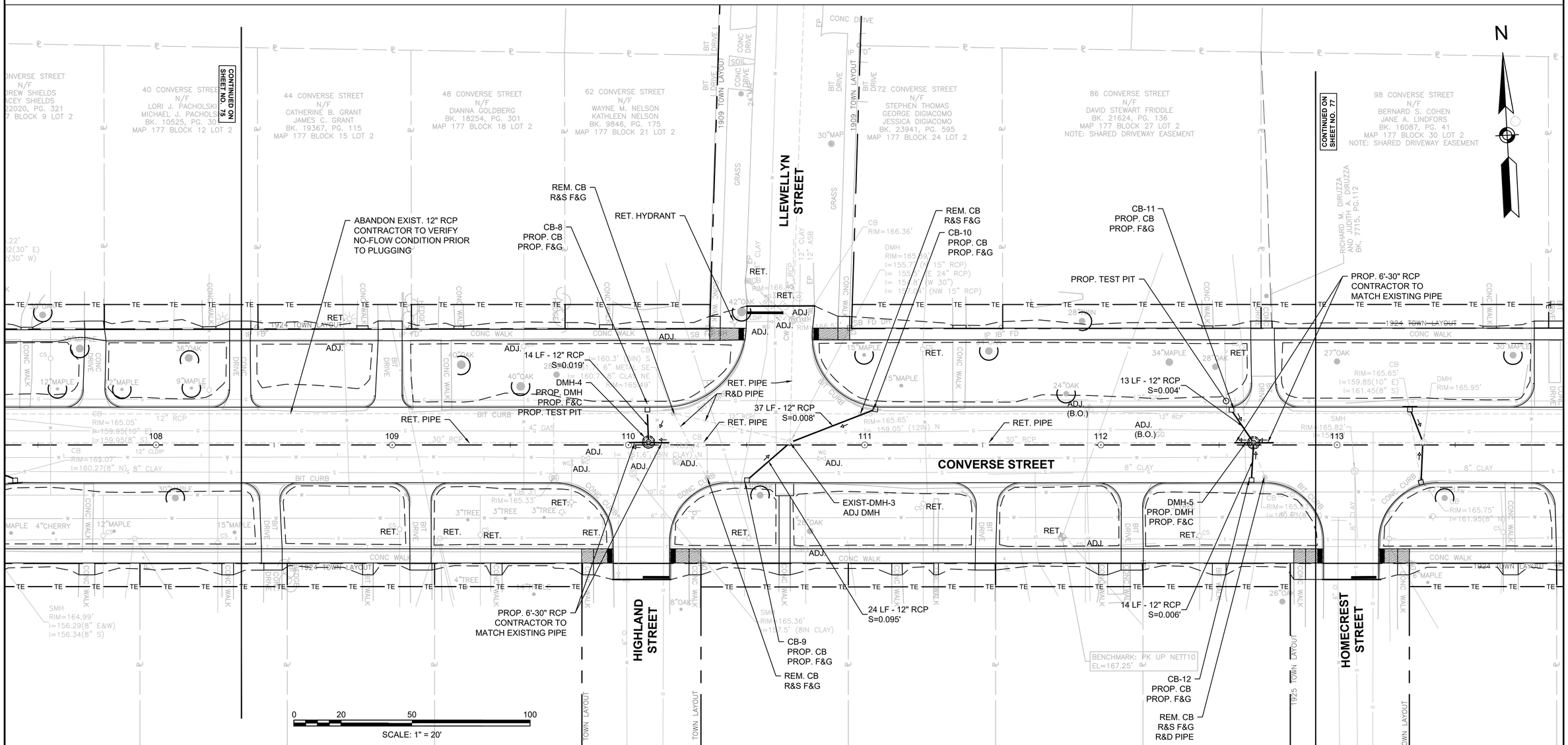
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
EXIST-CB-1	106+69.55 14.94 R	RIM ELEV. = 164.59		161.13' (EXIST-DMH-2)	REMODEL
EXIST-DMH-1	104+05.01 6.16 R	RIM ELEV. = 165.10	159.78' (CB-3) 158.68' (CB-4) 151.08' (EXIST-DMH-2)	150.98' (DMH-1)	REMODEL
EXIST-DMH-2	107+00.85 1.04 L	RIM ELEV. = 164.76	159.85' (CB-6) 159.30' (CB-5) 160.20' (CB-7) 160.25' (EXIST-CB-1) 152.50' (DMH-4)	152.42' (EXIST-DMH-1)	REMODEL

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	76	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:14 PM



DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-8	110+08.09 14.96 L	RIM ELEV. = 165.69		160.56' (DMH-4)	
CB-9	110+50.17 14.95 R	RIM ELEV. = 165.78		161.21' (EXIST-DMH-3)	
CB-10	111+04.52 15.13 L	RIM ELEV. = 165.72		160.60' (EXIST-DMH-3)	
CB-11	112+55.31 14.92 L	RIM ELEV. = 164.97		160.80' (DMH-5)	

DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-12	112+63.84 14.92 R	RIM ELEV. = 164.96		160.81' (DMH-5)	
DMH-4	110+08.71 0.97 L	RIM ELEV. = 165.97	160.29' (CB-8) 154.30' (EXIST-DMH-3)	154.20' (EXIST-DMH-2)	9-14 FT DEPTH
DMH-5	112+64.66 0.92 L	RIM ELEV. = 165.24	160.72' (CB-12) 160.73' (CB-11) 155.13' (EXIST-DMH-4)	155.13' (EXIST-DMH-3)	9-14 FT DEPTH
EXIST-DMH-3	110+68.48 1.07 L	RIM ELEV. = 166.06	158.89' (CB-9) 154.80' (DMH-5) 160.30' (CB-10)	154.70' (DMH-4)	REMODEL

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	77	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:16 PM

N

86 CONVERSE STREET N/F DAVID STEWART FRIDDLE BK. 21624, PG. 136 MAP 177 BLOCK 27 LOT 2 E: SHARED DRIVEWAY EASEMENT

98 CONVERSE STREET N/F BERNARD S. COHEN JANE A. LINDFORS BK. 16087, PG. 41 MAP 177 BLOCK 30 LOT 2 NOTE: SHARED DRIVEWAY EASEMENT

102 CONVERSE STREET N/F EDWARD P. ORENSTEIN SHARON S. ORENSTEIN BK. 5273, PG. 310 MAP 177 BLOCK 33 LOT 2

116 CONVERSE STREET N/F PAUL L. WHITE LINDA S. WHITE BK. 4431, PG. 24 MAP 177 BLOCK 36 LOT 2

122 CONVERSE STREET N/F FRANCISCO P. BALTAZAR LINDSAY L. KASELOUSKAS BK. 22699, PG. 270 MAP 177 BLOCK 39 LOT 2

128 CONVERSE STREET N/F MOUSTAFA IBRAHIM TAHOUN TRUSTEE EHDAA ALI TAHOUN TRUSTEE SAMER MOUSTAFA TAHOUN TRUSTEE BK. 24457, PG. 585 MAP 177 BLOCK 42 LOT 2

132 CONVERSE STREET N/F SEAN GOODWIN CAROLYN GOODWIN BK. 22415, PG. 36 MAP 177 BLOCK 45 LOT 2

138 CONVERSE STREET GOLDFINCH HOLDINGS LLC BK. 20752, PG. 214 MAP 177 BLOCK 48 LOT 2

RICHARD M. DIRUZZA AND JUDITH A. DIRUZZA BK. 7715, PG.112

CONTINUED ON SHEET NO. 76

CB-13
REM. CB, R&S F&G
PROP. CBCI, PROP. F&G

R&D PIPE

RET. PIPE

13 LF - 12" RCP
S=0.005'

RET.
EXIST-DMH-4
ADJ. DMH
ABDN. PIPE
RET. PIPE

ABANDON EXIST. 12" RCP
CONTRACTOR TO VERIFY
NO-FLOW CONDITION PRIOR
TO PLUGGING

10 LF - 12" RCP
S=0.005'

CB-15
REM. CB, R&S F&G
PROP. CB, PROP. F&G

EXIST-DMH-5
ADJ. DMH

11 LF - 12" RCP
S=0.005'

REM. CB
R&S F&G
REM. PIPE

CB-18
PROP. CB
PROP. F&G

DMH-6
PROP. DMH
PROP. F&C

PROP. 6'-30" RCP
CONTRACTOR TO
MATCH EXISTING
PIPE & INVERTS

17 LF - 12" RCP
S=0.029'

12 LF - 12" RCP
S=0.006'

R&D PIPE

PC +46.58

12 LF - 12" RCP
S=0.004'

CB-14
REM. CB, R&S F&G
PROP. CB, PROP. F&G

CB-16
PROP. CB
PROP. F&G

REM. CB
R&S F&G

CB-17
REM. CB, R&S F&G
PROP. CB, PROP. F&G

PROP. 6'-30" RCP
CONTRACTOR TO
MATCH EXISTING
PIPE & INVERTS

ADJ. ELEC.
BOX (B.O.)

R&S U.P.
PROP. U.P. (50')
PROP. GUY WIRE
(B.O.)

CONVERSE STREET

HOMECREST STREET

EDSON STREET

LAUREL STREET

PT 1053.48

PC 1171.74

PT +34.26

BENCHMARK: PK UP NETT10
EL=167.25'

112 113 114 115 116 117 118 302 303 304

1924 TOWN LAYOUT
1925 TOWN LAYOUT
1928 TOWN LAYOUT

CONTINUED ON SHEET NO. 78

125 CONVERSE STREET N/F MICHAEL R. GEE KAILEE M. GEE BK. 16307, PG. 552 MAP 177 BLOCK 186 LOT 6

170 LAUREL STREET N/F PATRICIA A. TINERVIA BK. 11432, PG. 240 MAP 177 BLOCK 18 LOT 6

PT OF WORK
STA. 301+80.85
N 2950299.5936
E 1054674.0294

DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-13	113+30.83 15.03 L	RIM ELEV. = 165.39		160.80' (EXIST-DMH-4)	
CB-14	113+35.53 15.88 R	RIM ELEV. = 165.42		161.50' (EXIST-DMH-4)	
CB-15	115+59.09 14.97 L	RIM ELEV. = 166.10		160.89' (EXIST-DMH-5)	
CB-16	115+60.83 15.02 R	RIM ELEV. = 166.09		162.59' (EXIST-DMH-5)	
CB-17	116+36.60 15.44 R	RIM ELEV. = 165.75		161.50' (DMH-6)	

DRAINAGE STRUCTURE TABLE

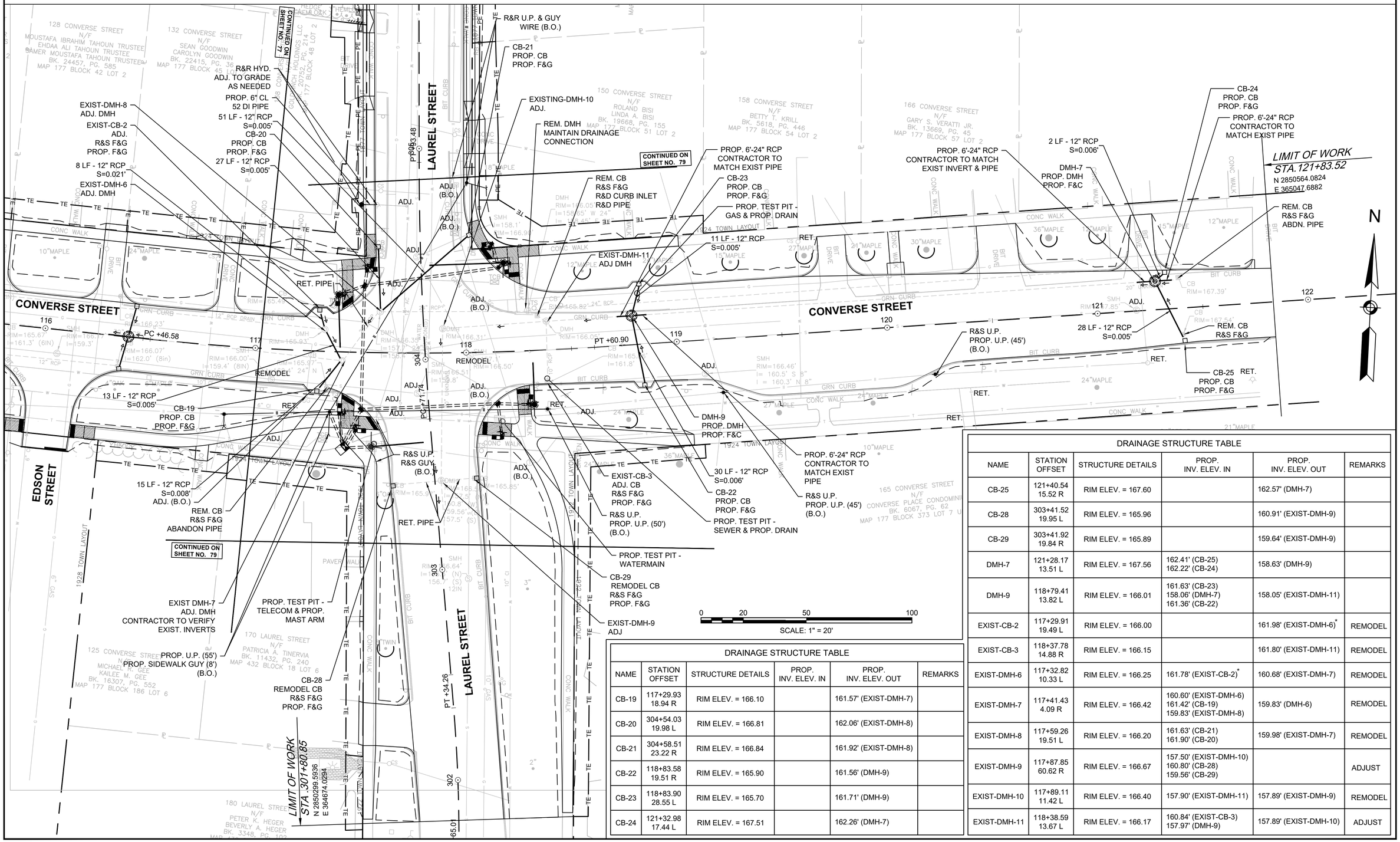
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-18	116+42.07 14.92 L	RIM ELEV. = 165.75		161.38' (DMH-6)	
DMH-6	116+39.54 0.19 L	RIM ELEV. = 166.08	161.43' (CB-17) 161.30' (CB-18) 159.31' (EXIST-DMH-7)	157.30' (EXIST-DMH-5)	
EXIST-DMH-4	113+36.36 1.22 L	RIM ELEV. = 165.72	161.01' (CB-14) 160.72' (CB-13) 155.45' (EXIST-DMH-5)	155.45' (DMH-5)	REMODEL
EXIST-DMH-5	115+60.10 1.11 L	RIM ELEV. = 166.37	160.82' (CB-15) 162.50' (CB-16) 156.80' (DMH-6)	156.40' (EXIST-DMH-4)	REMODEL

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	78	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:17 PM



DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-19	117+29.93 18.94 R	RIM ELEV. = 166.10		161.57' (EXIST-DMH-7)	
CB-20	304+54.03 19.98 L	RIM ELEV. = 166.81		162.06' (EXIST-DMH-8)	
CB-21	304+58.51 23.22 R	RIM ELEV. = 166.84		161.92' (EXIST-DMH-8)	
CB-22	118+83.58 19.51 R	RIM ELEV. = 165.90		161.56' (DMH-9)	
CB-23	118+83.90 28.55 L	RIM ELEV. = 165.70		161.71' (DMH-9)	
CB-24	121+32.98 17.44 L	RIM ELEV. = 167.51		162.26' (DMH-7)	

DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-25	121+40.54 15.52 R	RIM ELEV. = 167.60		162.57' (DMH-7)	
CB-28	303+41.52 19.95 L	RIM ELEV. = 165.96		160.91' (EXIST-DMH-9)	
CB-29	303+41.92 19.84 R	RIM ELEV. = 165.89		159.64' (EXIST-DMH-9)	
DMH-7	121+28.17 13.51 L	RIM ELEV. = 167.56	162.41' (CB-25) 162.22' (CB-24)	158.63' (DMH-9)	
DMH-9	118+79.41 13.82 L	RIM ELEV. = 166.01	161.63' (CB-23) 158.06' (DMH-7) 161.36' (CB-22)	158.05' (EXIST-DMH-11)	
EXIST-CB-2	117+29.91 19.49 L	RIM ELEV. = 166.00		161.98' (EXIST-DMH-6)*	REMODEL
EXIST-CB-3	118+37.78 14.88 R	RIM ELEV. = 166.15		161.80' (EXIST-DMH-11)	REMODEL
EXIST-DMH-6	117+32.82 10.33 L	RIM ELEV. = 166.25	161.78' (EXIST-CB-2)*	160.68' (EXIST-DMH-7)	REMODEL
EXIST-DMH-7	117+41.43 4.09 R	RIM ELEV. = 166.42	160.60' (EXIST-DMH-6) 161.42' (CB-19) 159.83' (EXIST-DMH-8)	159.83' (DMH-6)	REMODEL
EXIST-DMH-8	117+59.26 19.51 L	RIM ELEV. = 166.20	161.63' (CB-21) 161.90' (CB-20)	159.98' (EXIST-DMH-7)	REMODEL
EXIST-DMH-9	117+87.85 60.62 R	RIM ELEV. = 166.67	157.50' (EXIST-DMH-10) 160.80' (CB-28) 159.56' (CB-29)		ADJUST
EXIST-DMH-10	117+89.11 11.42 L	RIM ELEV. = 166.40	157.90' (EXIST-DMH-11)	157.89' (EXIST-DMH-9)	REMODEL
EXIST-DMH-11	118+38.59 13.67 L	RIM ELEV. = 166.17	160.84' (EXIST-CB-3) 157.97' (DMH-9)	157.89' (EXIST-DMH-10)	ADJUST

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	79	198
PROJECT FILE NO.	608881		

DRAINAGE & UTILITY PLANS

20170404A10_UTL01.DWG Plotted on 11-Jul-2025 12:19 PM

N

EDSON STREET

CONVERSE STREET

BENEDICT TERRACE

HARWICH ROAD

LAUREL STREET

1928 TOWN LAYOUT

1922 TOWN LAYOUT

1924 TOWN LAYOUT

1903 TOWN LAYOUT

LIMIT OF WORK
STA .301+80.85
N 2850299.5936
E 364674.0294

LIMIT OF WORK
STA. 307+96.27
N 2850912.6583
E 364624.7232

PC +65.01
PT +34.26
PC +71.74
PT +60.90
PC +46.58
PT +53.48

CONTINUED ON SHEET NO. 74

CONTINUED ON SHEET NO. 78

CONTINUED ON SHEET NO. 78

EXIST-DMH-12
ADJ. DMH
MATCH EXIST. INVERTS

18 LF - 12" RCP
S=0.005'

CB-26
PROP. CBCI
PROP. F&G

ABDN. PIPE

REM. CB
REM. F&G

7 LF - 12" RCP
S=0.005'

DMH-8
C.I.T.-CB TO DMH
R&S F&G
PROP. F&C
MATCH EXIST. INVERTS

PROP. STUB POLE
PROP. GUY WIRE
(B.O.)

CB-30
PROP. CB
PROP. F&G

RET. PIPE

ADJ. (B.O)

29 LF - 12" RCP
S=0.005'

R&R U.P. & GUY
WIRE (B.O.)

REM. CB
REM. F&G

R&S U.P.
PROP. U.P. (45')
(B.O.)

CB-27
PROP. CBCI
PROP. F&G
MATCH EXIST.
INVERTS

EXIST-CB-4
ADJ.

125 CONVERSE STREET N/F MICHAELA R. GEE KAILEE L. GEE BK. 16307, PG. 552 MAP 177 BLOCK 186 LOT 6

128 CONVERSE STREET N/F MOUSTAFA IBRAHIM TAHOUN TRUSTEE SAMER MOUSTAFA TAHOUN TRUSTEE BK. 24457, PG. 585 MAP 177 BLOCK 42 LOT 2

132 CONVERSE STREET N/F SEAN GOODWIN CAROLYN GOODWIN BK. 22415, PG. 36 MAP 177 BLOCK 45 LOT 2

138 CONVERSE STREET N/F GOLDFINCH HOLDINGS LLC BK. 20752, PG. 214 MAP 177 BLOCK 48 LOT 2

140 LAUREL STREET N/F JERRY R. ROBERTS DONNA L. ROBERTS BK. 5425, PG. 59 MAP 177 BLOCK 49 LOT 2

128 LAUREL STREET N/F JACOB BULLOCK DONALD ANDRES BK. 24723, PG.159 MAP 432 BLOCK 12 LOT 2

180 LAUREL STREET N/F PETER K. HEGER BEVERLY A. HEGER BK. 3348, PG. 102 MAP 432 BLOCK 18 LOT 6

170 LAUREL STREET N/F PATRICIA M. TINERVIA BK. 11432, PG. 240 MAP 432 BLOCK 18 LOT 6

150 CONVERSE STREET N/F ROLAND BISI LINDA A. BISI BK. 19668, PG. 155 MAP 177 BLOCK 51 LOT 2

147 LAUREL STREET N/F MARY ELIZABETH VAHADJI BK. 23621, PG. 311 MAP 432 BLOCK 159 LOT

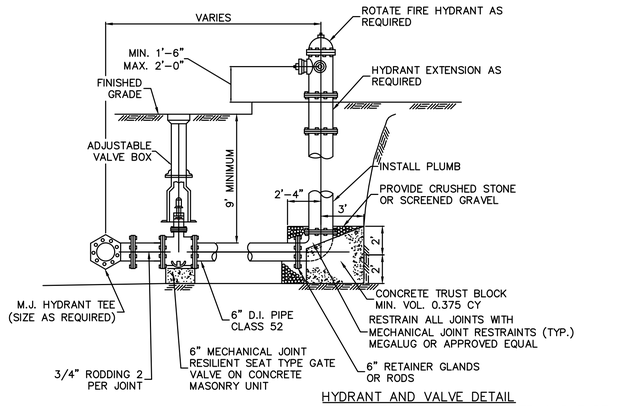
158 CONVERSE STREET N/F BETTY N. KRILL BK. 5611, PG. 4 MAP 177 BLOCK 54

137 LAUREL STREET

0 20 50 100
SCALE: 1" = 20'

DRAINAGE STRUCTURE TABLE

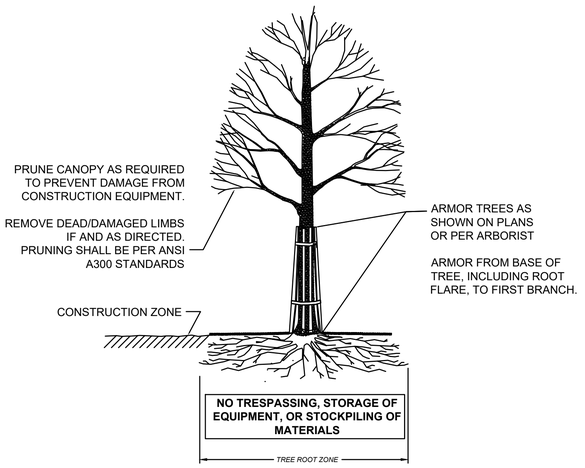
NAME	STATION OFFSET	STRUCTURE DETAILS	PROP. INV. ELEV. IN	PROP. INV. ELEV. OUT	REMARKS
CB-26	306+62.32 19.65 L	RIM ELEV. = 168.08		164.15' (EXIST-DMH-12)	
CB-27	306+80.96 18.74 R	RIM ELEV. = 168.05		164.08' (EXIST-DMH-12)*	
CB-30	307+50.80 15.71 L	RIM ELEV. = 168.79		164.00' (DMH-8)	
DMH-8	307+39.95 12.81 L	RIM ELEV. = 168.80	163.94' (CB-30) 157.00' (EXIST-CB-4)	156.90' (EXIST-DMH-12)	CHANGE IN TYPE
EXIST-CB-4	307+52.34 35.23 R	RIM ELEV. = 168.60	EXISTING	158.00' (DMH-8)	ADJUST
EXIST-DMH-12	306+83.50 14.47 L	RIM ELEV. = 168.40	163.92' (CB-27) 164.05' (CB-26) 159.00' (DMH-8)	158.90' (EXIST-OUTFALL-BT)	ADJUST



HYDRANT AND VALVE DETAIL

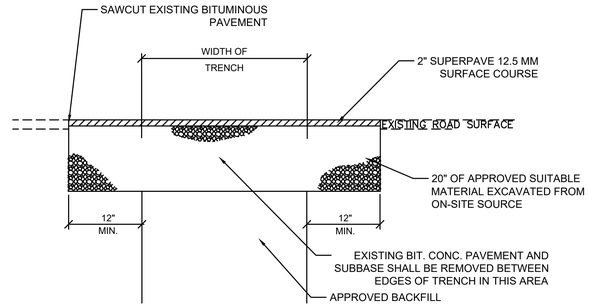
1) HYDRANT MANUFACTURER AND TYPE SHALL BE PROVIDED BY THE TOWN OF LONGMEADOW. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN PRIOR TO ANY NEW HYDRANT INSTALLATIONS
2) HYDRANT OPENS TO THE RIGHT
3) LEAVE HYDRANT DRAINS OPEN

1 HYDRANT AND VALVE DETAIL
SCALE: N.T.S.



SECTION - TRUNK ARMORING & PRUNING

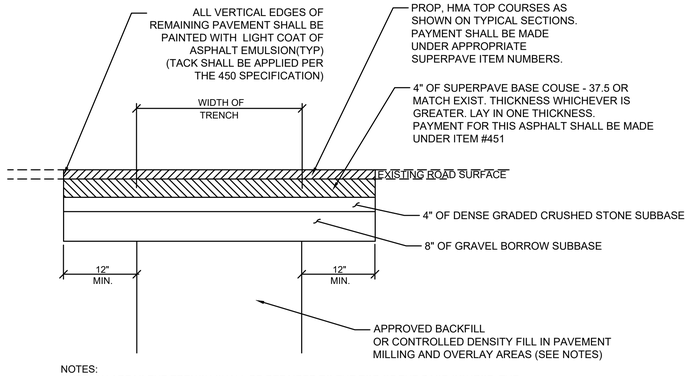
2 TREE PROTECTION – TRUNK
SCALE: N.T.S.



NOTES:
THE TEMPORARY PAVEMENT TRENCH REPAIR SHALL BE USED DURING THE TIME BETWEEN COMPLETION OF THE UTILITY CONSTRUCTION AND CONSTRUCTION OF THE PROPOSED ROADWAY PAVEMENT STRUCTURE OR PERMANENT PAVEMENT TRENCH REPAIR.

TEMPORARY ASHPALT SHALL BE PAID FOR UNDER ITEM #472

3 TEMPORARY PAVEMENT TRENCH REPAIR
SCALE: N.T.S.

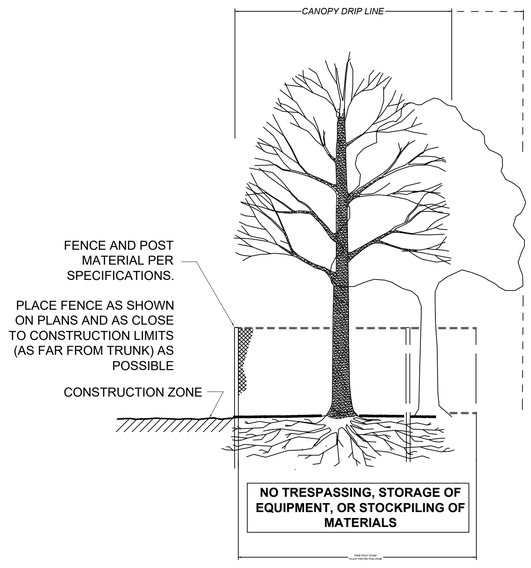


NOTES:
OVERLAY AREAS:THE TRENCH SHALL BE REPAIRED TO THE TOP OF THE BASE COURSE. THE TOP COURSES SHALL BE PLACED WITH OVERLAY OF THE ROADWAY

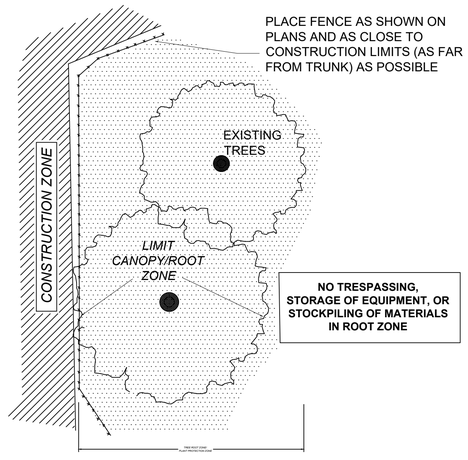
ROADWAY TRENCHING OUTSIDE OF FULL DEPTH AND OVERLAY: THE TRENCH SHALL BE REPAIRED WITH TOP COURSES INSTALLED WITH THE BASE COURSE.

CONTROLLED DENSITY FILL MAY BE USED IN LIEU OF APPROVED BACKFILL IN PAVEMENT MILLING AND OVERLAY AREAS WHERE NORMAL BACKFILL CANNOT PLACED OR TO REDUCE AMOUNT OF TIME NEED TO BACKFILL THE TRENCH. USE OF CONTROLLED DENSITY FILL TO BACKFILL TRENCHES SHALL BE APPROVED BY ENGINEER. CONTROLLED DENSITY FILL IS FOR CONTRACTOR CONVENIENCE FOR WHICH NO SEPARATE PAYMENT SHALL BE MADE.

4 PERMANENT PAVEMENT TRENCH REPAIR IN ROADWAYS
SCALE: N.T.S.



SECTION - FENCE PROTECTION OF ROOT ZONE



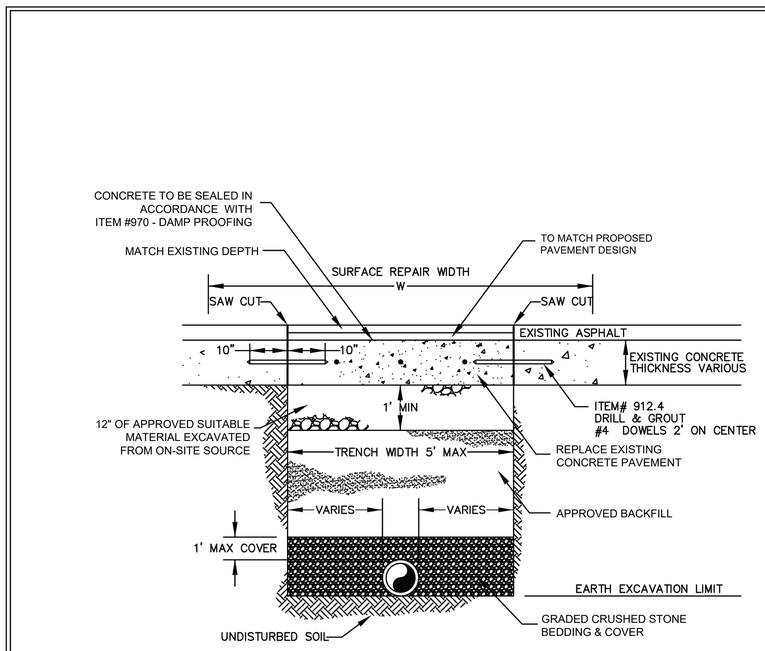
PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

5 TREE PROTECTION – ROOT ZONE
SCALE: N.T.S.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	81	198
PROJECT FILE NO.	608881		

CONSTRUCTION DETAILS



TRENCH SECTION DETAIL IN LONGMEADOW STREET (ROUTE 5)

NOT TO SCALE

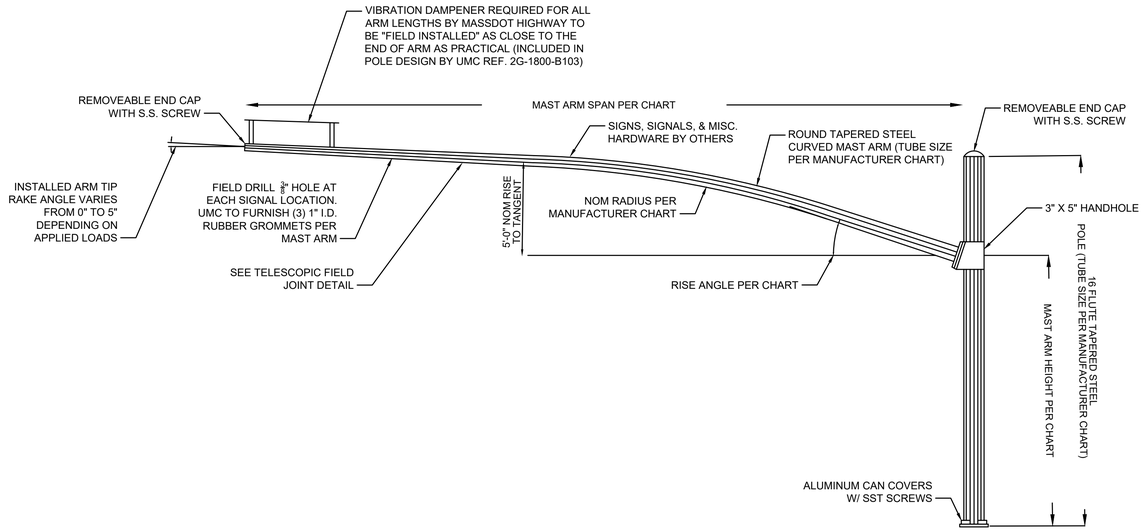
NOTES:

1. **INCLUDES TEMPORARY PAVEMENT PATCHES FOR SIDEWALKS AND DRIVEWAYS.**
2. **INCLUDES PERMANENT REPAIRS FOR DRIVEWAYS, SIDEWALKS, LAWN AREAS (LOAM & SEED), BERMS, AND CURBS.**

Longmeadow Engineering Department

6 LONGMEADOW STREET (ROUTE 5) TRENCH REPAIR AT EXISTING TROLLEY TRACK CONCRETE BASE

SCALE: N.T.S.



7 ORNAMENTAL MAST ARM

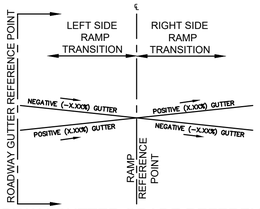
SCALE: N.T.S.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	82	198
PROJECT FILE NO.	608881		

20170404A10_DET01.DWG 23-Jun-2025

PEDESTRIAN CURB RAMP/DRIVEWAY DETAILS

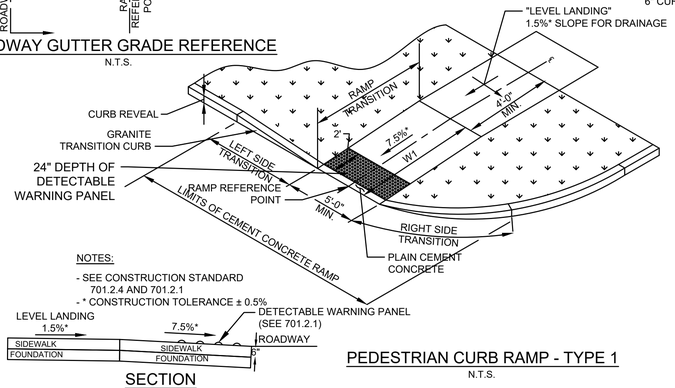


ROADWAY GUTTER GRADE REFERENCE

N.T.S.

NOTES:

THE ROADWAY GUTTER GRADE SHOULD BE READ BEGINNING FROM THE LEFT SIDE AND PROGRESSING TO THE RIGHT SIDE.



NOTES:

- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%

SECTION

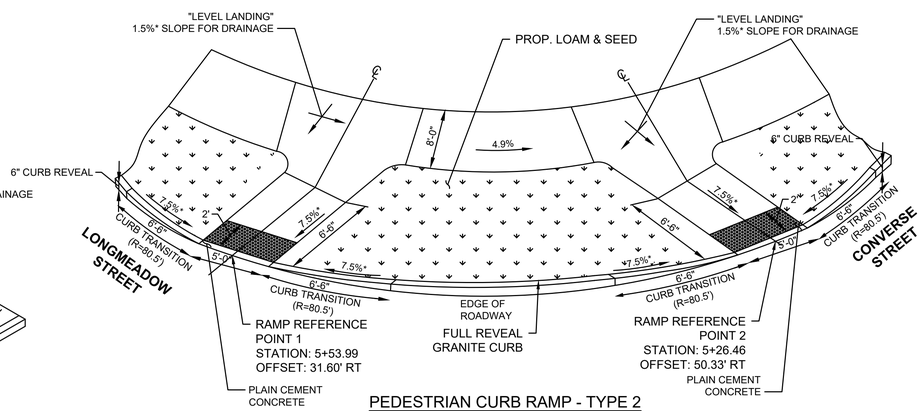
N.T.S.

PEDESTRIAN CURB RAMP - TYPE 1

N.T.S.

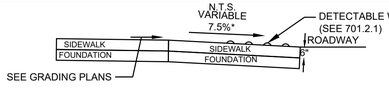
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Ww)	WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	CORNER RADIUS	RAMP TRANSITION (W1)	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET					CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR1-1	13+60.53 LONGMEADOW STREET	30.22' LT	6'-0"	6'-0"	25'	6'-6"	6'-6"	-	6"	0.3%	6"	-	6'-6"	6"	-0.3%	6"
PCR1-2	30+91.77 COLUMBUS AVENUE 116+16.23	41.51' RT	5'-0"	5'-0"	40'	15'-0"	6'-6"	-	6"	-1.8%	6"	6'-6"	-	6"	1.8%	6"
PCR1-3	CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	6'-6"	-	6'-6"	6"	1.7%	6"	-	6'-6"	6"	-1.7%	6"
PCR1-4	118+26.28 CONVERSE STREET	16.81' RT	6'-0"	6'-0"	30'	7'-0"	-	6'-6"	6"	0.62%	6"	6'-6"	-	6"	-0.62%	6"
PCR1-5	303+65.49 LAUREL STREET	23.29' RT	6'-0"	6'-0"	30'	8'-6"	6'-6"	-	6"	0.58%	6"	6'-6"	-	6"	-0.58%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



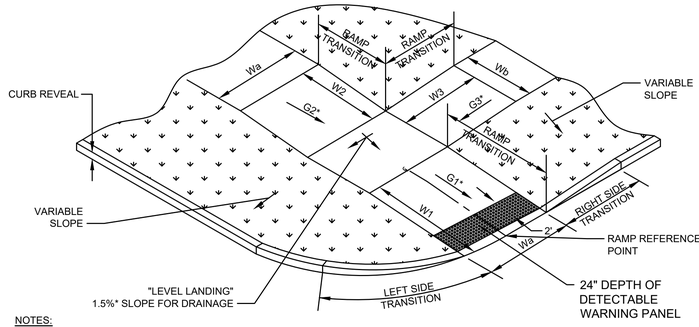
PEDESTRIAN CURB RAMP - TYPE 2
INTERSECTION OF LONGMEADOW STREET & CONVERSE STREET

N.T.S.



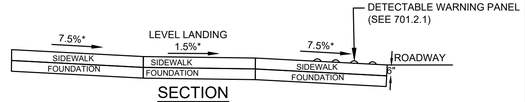
SECTION

N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
* CONSTRUCTION TOLERANCE ± 0.5%



SECTION

N.T.S.

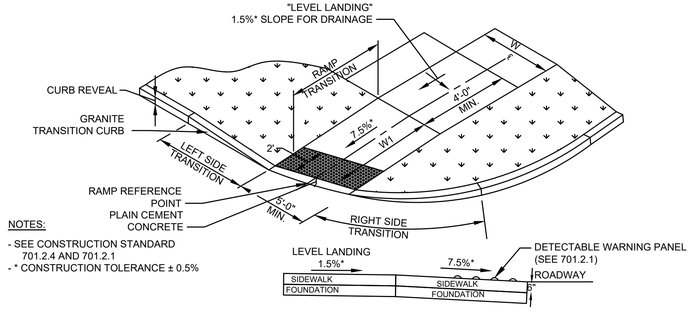
PEDESTRIAN CURB RAMP - TYPE 3

N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Ww)	WIDTH OF SIDEWALK (Ww)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1*)	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET					LENGTH OF RAMP TRANSITION (W2)	GRADE OF RAMP TRANSITION (G2)	LENGTH OF RAMP TRANSITION (W3)	GRADE OF RAMP TRANSITION (G3)	CORNER RADIUS	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR3-1	307+48.27 LAUREL STREET	23.20' RT	4'-9"	3'-11"	3'-3"	7.5%	5'-0"	3.0%	5'-0"	5.6%	15'-0"	5'-6"	1'-0"	6"	1.27%	6"
PCR3-2	307+77.81 LAUREL STREET	23.51' RT	5'-0"	3'-6"	3'-11"	4.1%	3'-0"	4.1%	3'-0"	4.1%	15'-0"	6'-6"	-	6"	1.27%	6"

PCR#	RIGHT SIDE TRANSITION					LEFT SIDE TRANSITION				
	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR3-1	6'-6"	_	6"	-1.27%	6"	5'-6"	1'-0"	6"	1.27%	6"
PCR3-2	5'-3"	1'-3"	6"	-1.27%	6"	6'-6"	-	6"	1.27%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:

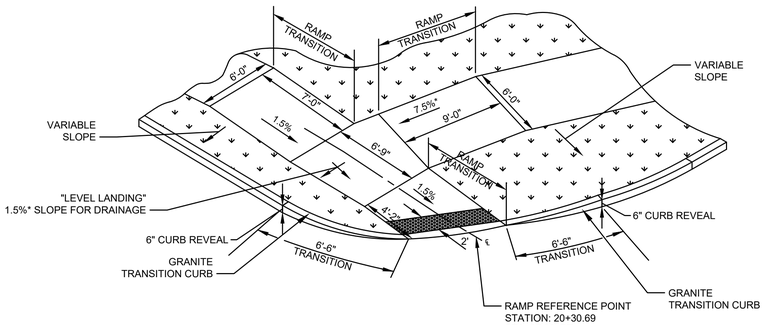
- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%

SECTION

N.T.S.

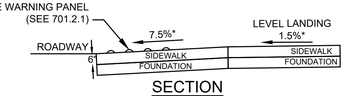
PEDESTRIAN CURB RAMP - TYPE 5

N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD 701.2.6 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



SECTION

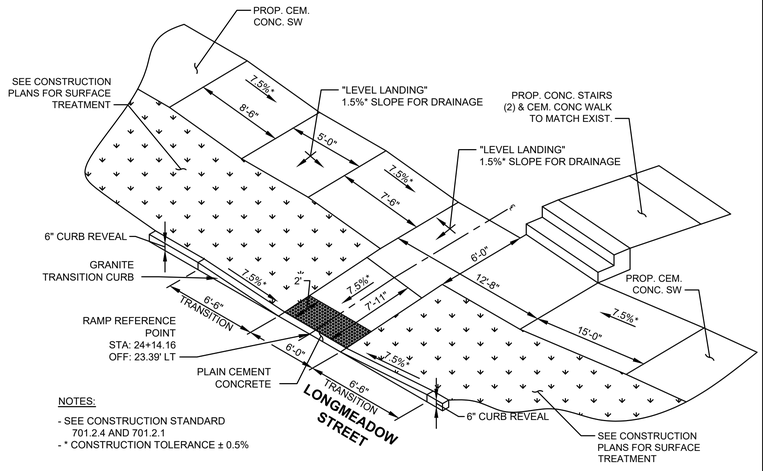
N.T.S.

PEDESTRIAN CURB RAMP - TYPE 4
INTERSECTION OF LONGMEADOW STREET & FERNLEAF AVENUE

N.T.S.

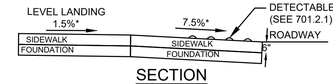
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	CORNER RADIUS	RAMP TRANSITION (W1)	RIGHT SIDE TRANSITION					LEFT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET					CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR5-1	9+97.75 LONGMEADOW STREET	38.74' LT	6'-0"	6'-0"	25'	7'-8"	6'-6"	-	6"	1.0%	6"	6'-6"	-	6"	-1.0%	6"
PCR5-2	10+33.31 LONGMEADOW STREET	39.58' LT	6'-0"	6'-0"	30'	8'-0"	6'-6"	-	6"	1.0%	6"	6'-6"	-	6"	-1.0%	6"
PCR5-3	14+10.41 LONGMEADOW STREET	30.45' LT	6'-0"	6'-0"	40'	5'-0"	6'-6"	-	6"	-0.30%	6"	6'-6"	-	6"	-1.90%	6"
PCR5-4	14+68.00 LONGMEADOW STREET	29.15' RT	6'-0"	6'-0"	25'	8'-8"	6'-6"	-	6"	-0.61%	6"	6'-6"	-	6"	-0.57%	6"
PCR5-5	19+81.86 LONGMEADOW STREET	28.64' RT	6'-0"	6'-0"	28'	7'-8"	-	6'-6"	6"	-1.59%	6"	6'-6"	-	6"	1.21%	6"
PCR5-6	106+94.71 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	8'-10"	-	6'-6"	6"	-3.19%	6"	6'-6"	-	6"	3.08%	6"
PCR5-7	107+16.98 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	8'-2"	6'-6"	-	6"	-2.06%	6"	-	6'-6"	6"	0.19%	6"
PCR5-8	109+93.62 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	7'-10"	-	6'-6"	6"	-1.50%	6"	6'-6"	-	6"	2.30%	6"
PCR5-9	110+17.39 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	7'-10"	6'-6"	-	6"	2.23%	6"	-	6'-6"	6"	-1.43%	6"
PCR5-10	110+40.62 CONVERSE STREET	46.99' LT	5'-0"	5'-0"	35'	9'-10"	6'-6"	-	6"	2.81%	6"	-	6'-6"	6"	-4.47%	6"
PCR5-11	110+77.81 CONVERSE STREET	47.04' LT	5'-0"	5'-0"	30'	10'-3"	-	6'-6"	6"	-1.74%	6"	6'-6"	-	6"	2.18%	6"
PCR5-12	112+94.30 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	7'-2"	3'-6"	3'-0"	6"	0.75%	6"	-	6'-6"	6"	-0.68%	6"
PCR5-13	113+17.53 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25"	7'-7"	-	6'-6"	6"	0.75%	6"	3'-4"	3'-2"	6"	0.68%	6"
PCR5-14	115+94.88 CONVERSE STREET	47.00' RT	6'-0"	6'-0"	25'	8'-6"	-	6'-6"	6"	-1.70%	6"	6'-6"	-	6"	1.70%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:

- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



SECTION

N.T.S.

PEDESTRIAN CURB RAMP - TYPE 6
INTERSECTION OF LONGMEADOW STREET, FOREST GLEN ROAD & WESTERN DRIVE

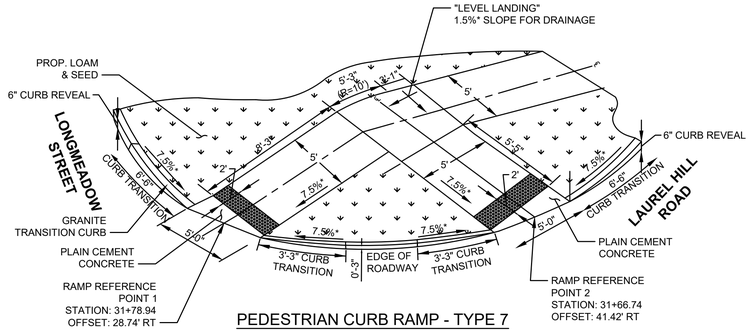
N.T.S.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

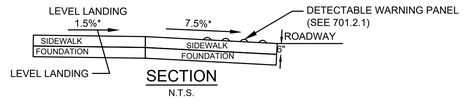
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	83	198
PROJECT FILE NO.	608881		

20170404A10_DET01.DWG 23-Jun-2025

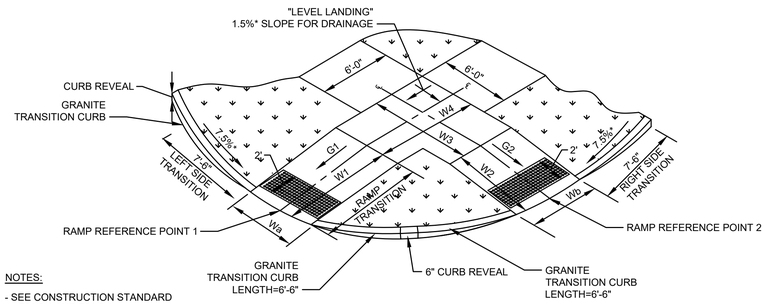
PEDESTRIAN CURB RAMP/DRIVEWAY DETAILS



PEDESTRIAN CURB RAMP - TYPE 7
LONGMEADOW STREET AT LAUREL HILL ROAD
N.T.S.



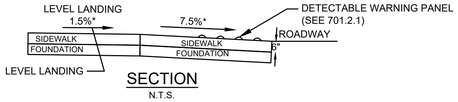
SECTION
N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%

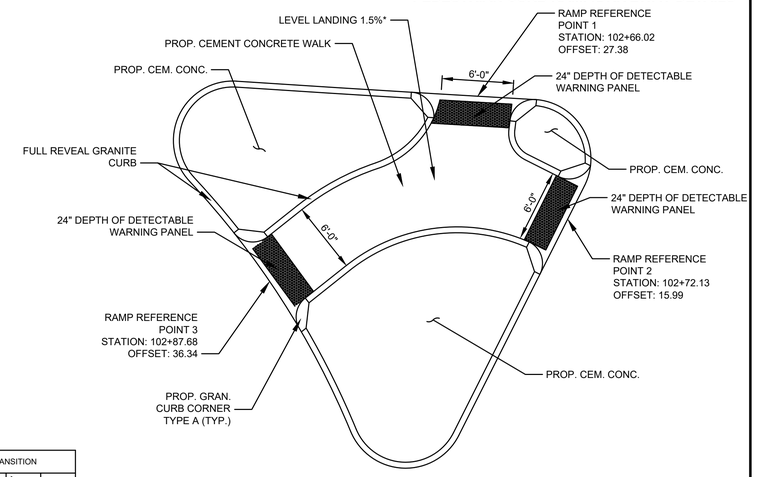
PEDESTRIAN CURB RAMP - TYPE 8
N.T.S.



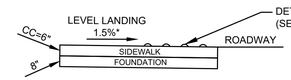
SECTION
N.T.S.

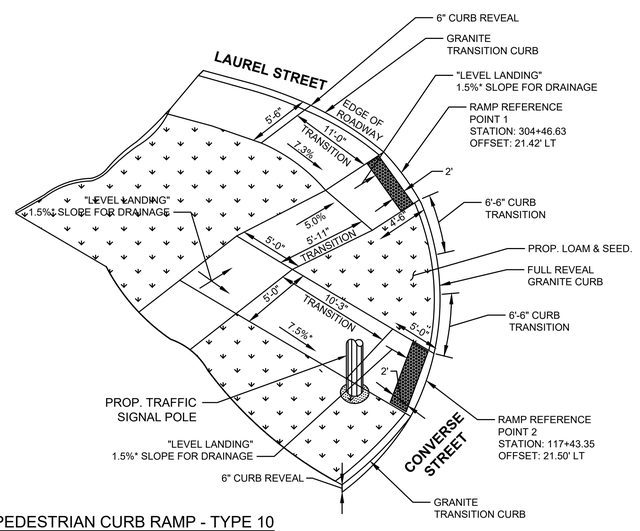
PCR#	RAMP REFERENCE POINT 1		RAMP REFERENCE POINT 2		WIDTH OF RAMP ENTRANCE (W4)	WIDTH OF RAMP ENTRANCE (W5)	CORNER RADIUS	RAMP TRANSITION LENGTH (W1)	GRADE OF RAMP TRANSITION (G1)	RAMP TRANSITION LENGTH (W2)	GRADE OF RAMP TRANSITION (G2)	LEVEL LANDING LENGTH (W3)	LEVEL LANDING LENGTH (W4)	LEFT SIDE TRANSITION				RIGHT SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET	STATION/ ROADWAY	OFFSET										CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR8-1	101+83.34 ENGLEWOOD ROAD	18.61' LT	5+58.95 LONGMEADOW STREET	26.11' LT	6'-0"	6'-0"	30'	4'-9"	3.2%	6'-5"	2.3%	9'-0"	9'-0"	7'-6"	-	6"	1.36%	6"	7'-6"	-	6"	0.30%	6"
PCR8-2	303+71.65 LAUREL STREET	25.58' LT	117+44.66 CONVERSE STREET	21.02' RT	6'-0"	6'-0"	40'	5'-4"	6.4%	4'-10"	7.5%	8'-6"	8'-6"	7'-6"	-	6"	-0.81%	6"	7'-6"	-	6"	-0.62%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

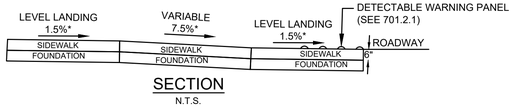


PEDESTRIAN CURB RAMP - TYPE 9
LONGMEADOW STREET AT CONVERSE STREET
N.T.S.

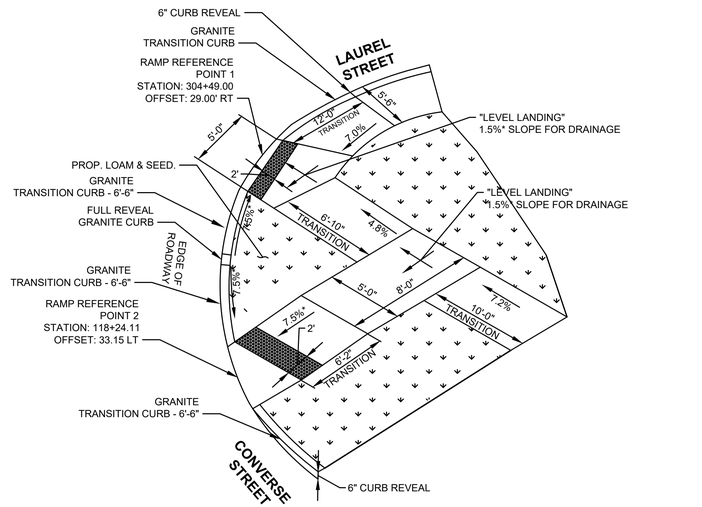




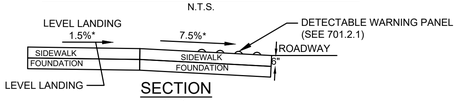
PEDESTRIAN CURB RAMP - TYPE 10
CONVERSE STREET AT LAUREL STREET
N.T.S.



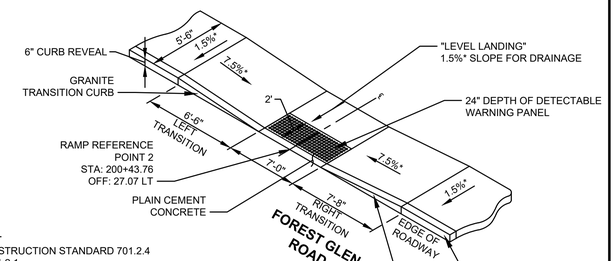
SECTION
N.T.S.



PEDESTRIAN CURB RAMP - TYPE 11
CONVERSE STREET AT LAUREL STREET
N.T.S.



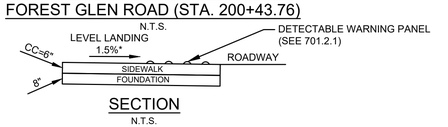
SECTION
N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%
- SEE CONSTRUCTION STANDARD 701.2.8

PEDESTRIAN CURB RAMP - TYPE 12
FOREST GLEN ROAD (STA. 200+43.76)
N.T.S.



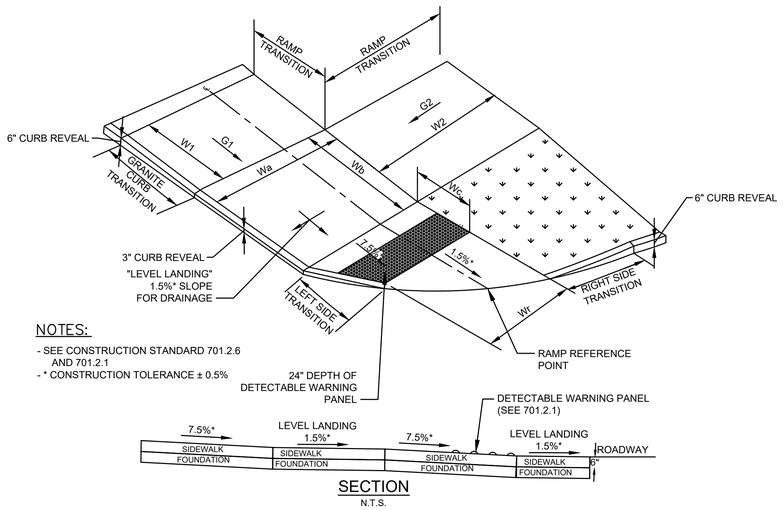
SECTION
N.T.S.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	84	198
PROJECT FILE NO.	608881		

20170404A10_DET01.DWG 23-Jun-2025

PEDESTRIAN CURB RAMP/DRIVEWAY DETAILS



NOTES:
- SEE CONSTRUCTION STANDARD 701.2.6 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%

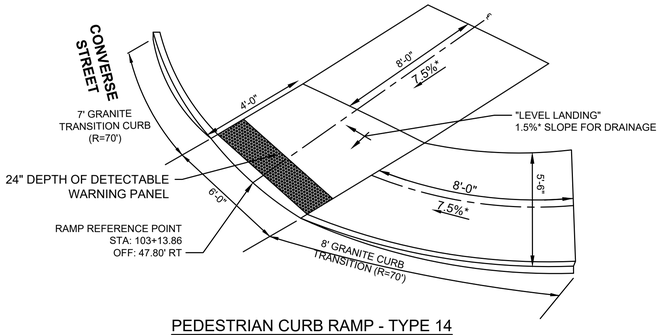
SECTION
N.T.S.

PEDESTRIAN CURB RAMP - TYPE 13

N.T.S.

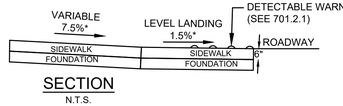
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	LENGTH OF RAMP PANEL (Wc)	WIDTH OF RAMP ENTRANCE (Wr)	LENGTH OF TRANSITION RAMP (W1)	LENGTH OF TRANSITION RAMP (W2)	GRADE OF RAMP (G1)	GRADE OF RAMP (G2)	CORNER RADIUS	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET										CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR13-1	306+80.78 LAUREL STREET	22.80' LT	5'-0"	6'-0"	3'-6"	4'-0"	5'-0"	5'-0"	2.0%	3.8%	8'	3'-11"	5'-0"	3"	-0.40%	6"	2'-10"	3'-8"	3.5"	-1.75%	6"
PCR13-2	307+19.29 LAUREL STREET	20.90' LT	6'-0"	5'-10"	4'-0"	4'-0"	5'-0"	5'-0"	6.6%	2.2%	10'	4'-8"	1'-10"	1.5"	-2.40%	6"	4'-8"	5'-0"	3"	1.20%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

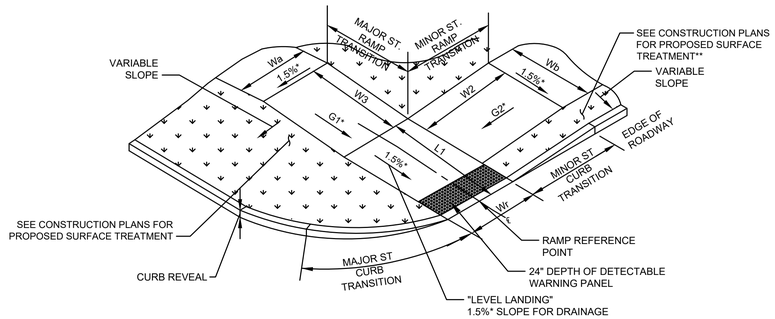


PEDESTRIAN CURB RAMP - TYPE 14
LONGMEADOW STREET AT CONVERSE STREET

N.T.S.



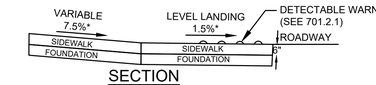
SECTION
N.T.S.



PEDESTRIAN CURB RAMP - TYPE 15

N.T.S.

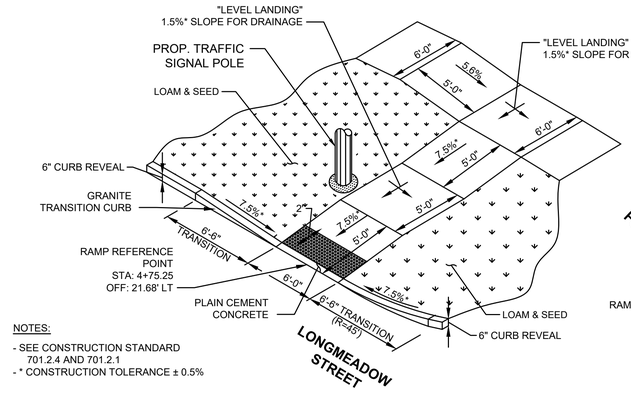
NOTES:
- SEE CONSTRUCTION STANDARD 701.2.5 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



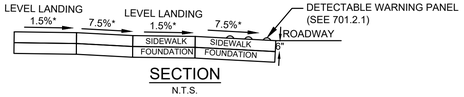
SECTION
N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr)	LENGTH OF LEVEL LANDING (L1)	LENGTH OF TRANSITION RAMP (W1)	LENGTH OF TRANSITION RAMP (W2)	GRADE OF RAMP (G1)	GRADE OF RAMP (G2)	CORNER RADIUS	MAJOR STREET TRANSITION					MINOR STREET TRANSITION				
	STATION/ ROADWAY	OFFSET										CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
PCR15-1	101+92.66 ENGLEWOOD AVE	16.3' LT	6'-0"	6'-0"	6'-0"	7'-7"	6'-6"	6'-6"	7.0%	4.0%	45'	6'-6"	-	-	-1.36%	6"	6'-6"	-	-	1.36%	6"
PCR15-2	8+76.61 LONGMEADOW STREET	25.52' RT	6'-0"	6'-0"	6'-0"	8'-1"	7'-0"	5'-0"	7.5%	5.2%	30'	6'-6"	-	-	2.00%	6"	6'-6"	-	-	-2.00%	6"
PCR15-3	9+37.24 LONGMEADOW STREET	25.52' RT	6'-0"	6'-0"	6'-0"	8'-3"	10'-0"	7'-0"	7.5%	6.3%	30'	6'-6"	-	-	2.00%	6"	6'-6"	-	-	-2.00%	6"
PCR15-4	15+07.81 LONGMEADOW STREET	29.85' RT	6'-0"	6'-0"	6'-0"	9'-3"	12'-0"	13'-0"	7.5%	7.2%	35'	6'-6"	-	-	-0.8%	6"	6'-6"	-	-	0.8%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



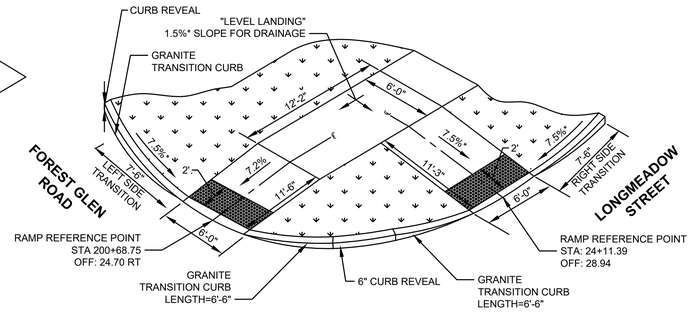
NOTES:
- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



SECTION
N.T.S.

PEDESTRIAN CURB RAMP - TYPE 16
LONGMEADOW STREET (STA. 4+75.25)

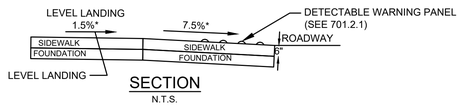
N.T.S.



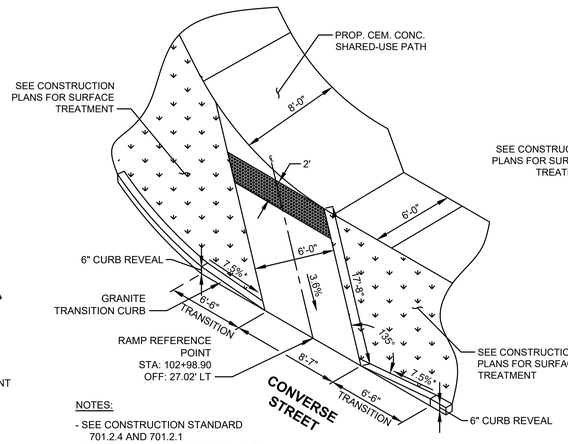
PEDESTRIAN CURB RAMP - TYPE 17
LONGMEADOW STREET AT FOREST GLEN ROAD

N.T.S.

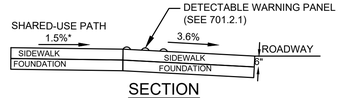
NOTES:
- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



SECTION
N.T.S.



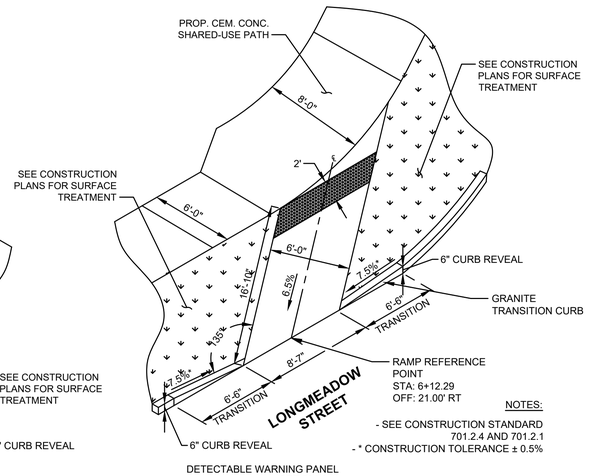
NOTES:
- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



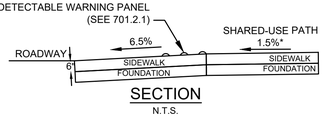
SECTION
N.T.S.

BICYCLE RAMP - TYPE 1 (BR1)
INTERSECTION OF LONGMEADOW STREET & CONVERSE STREET

N.T.S.



NOTES:
- SEE CONSTRUCTION STANDARD 701.2.4 AND 701.2.1
- * CONSTRUCTION TOLERANCE ± 0.5%



SECTION
N.T.S.

BICYCLE RAMP - TYPE 2 (BR2)
INTERSECTION OF LONGMEADOW STREET & CONVERSE STREET

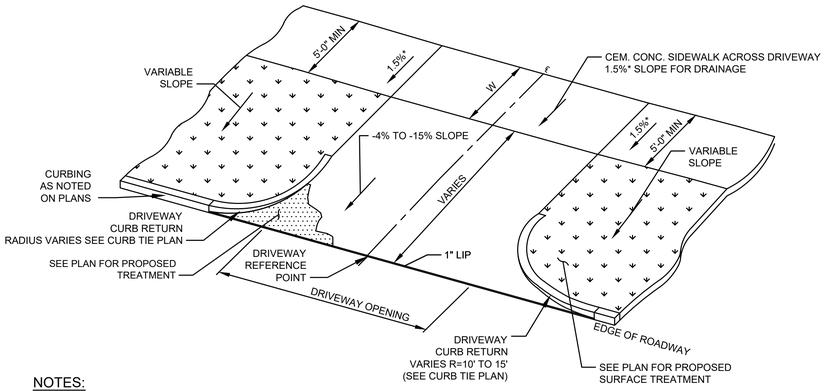
N.T.S.

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	85	198
PROJECT FILE NO.	608881		

PEDESTRIAN CURB RAMP/DRIVEWAY DETAILS

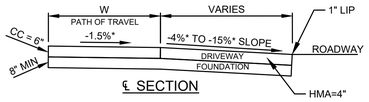
20170404A10_DET01.DWG 23-Jun-2025



NOTES:

1. SEE CONSTRUCTION STANDARD 701.1.3 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD 701.2.8 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

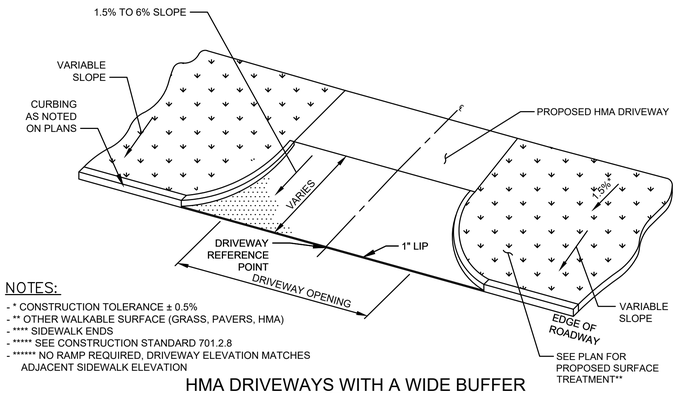


℄ SECTION

SIDEWALK THROUGH DRIVEWAYS - TYPE 1

N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G) (MIN. 7'-0")	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET				
DR1-1	2+24.08 LONGMEADOW	16.62 LT	5'-4"	26'-7"	15'-3"	14'-10"
DR1-2	2+57.00 LONGMEADOW	16.88 LT	6'-0"	24'-11"	16'-1"	15'-11"
DR1-3	3+81.97 LONGMEADOW	19.66 LT	6'-0"	19'-0"	12'-2"	16'-6"
DR1-4	7+09.37 LONGMEADOW	21.00 LT	6'-0"	17'-0"	8'-0"	7'-10"
DR1-5	8+03.32 LONGMEADOW	20.01 LT	6'-0"	18'-7"	11'-3"	7'-8"
DR1-6	8+31.77 LONGMEADOW	19.37 LT	6'-0"	19'-0"	7'-8"	12'-8"
DR1-7	8+79.93 LONGMEADOW	19.10 LT	6'-0"	18'-5"	13'-7"	13'-3"
DR1-8	11+46.41 LONGMEADOW	16.03 LT	6'-0"	19'-0"	14'-0"	15'-7"
DR1-9	17+58.48 LONGMEADOW	16.00 LT	6'-0"	30'-0"	12'-8"	26'-8"
DR1-10	19+23.47 LONGMEADOW	16.00 LT	6'-0"	28'-5"	18'-6"	16'-0"
DR1-11	20+10.12 LONGMEADOW	16.00 LT	6'-0"	25'-4"	23'-10"	22'-8"
DR1-12	21+38.49 LONGMEADOW	20.10 LT	6'-0"	22'-6"	22'-4"	15'-4"
DR1-13	22+71.02 LONGMEADOW	26.45 LT	6'-0"	12'-0"	13'-0"	11'-0"
DR1-14	23+42.97 LONGMEADOW	27.00 LT	6'-0"	8'-8"	3'-4"	7'-9"
DR1-15	104+49.62 CONVERSE	16.01 RT	6'-0"	28'-3"	11'-6"	15'-0"
DR1-16	104+81.22 CONVERSE	18.57 LT	5'-0"	26'-0"	12'-6"	7'-3"
DR1-17	105+44.80 CONVERSE	16.00 RT	6'-0"	28'-0"	11'-7"	15'-8"
DR1-18	106+11.39 CONVERSE	22.04 RT	6'-0"	28'-0"	11'-9"	15'-10"
DR1-19	106+37.35 CONVERSE	16.00 LT	5'-0"	27'-8"	11'-7"	15'-5"
DR1-20	107+08.86 CONVERSE	15.99 LT	5'-0"	27'-8"	11'-6"	11'-8"
DR1-21	107+73.74 CONVERSE	16.00 LT	5'-0"	28'-6"	11'-6"	11'-11"
DR1-22	108+34.39 CONVERSE	16.00 LT	5'-0"	28'-1"	11'-6"	7'-8"
DR1-23	108+48.16 CONVERSE	16.00 RT	6'-0"	28'-0"	12'-1"	11'-6"
DR1-24	108+98.49 CONVERSE	16.00 LT	5'-0"	28'-1"	7'-6"	7'-9"
DR1-25	109+11.87 CONVERSE	16.00 RT	6'-0"	28'-0"	11'-8"	11'-7"
DR1-26	111+51.66 CONVERSE	16.00 RT	6'-0"	28'-0"	15'-4"	15'-11"
DR1-27	112+13.16 CONVSER	16.00 RT	6'-0"	28'-0"	15'-9"	15'-8"
DR1-28	112+68.86 CONVERSE	16.00 LT	5'-0"	28'-6"	15'-9"	15'-5"
DR1-29	113+92.35 CONVERSE	16.00 LT	5'-0"	28'-6"	15'-8"	15'-8"
DR1-30	113+96.59 CONVERSE	16.00 RT	6'-0"	28'-0"	14'-10"	11'-7"
DR1-31	115+07.10 CONVERSE	16.00 RT	6'-0"	28'-0"	23'-3"	15'-5"
DR1-32	115+16.87 CONVERSE	16.00 LT	5'-0"	28'-6"	11'-9"	11'-6"
DR1-33	115+74.73 CONVERSE	16.00 LT	5'-0"	28'-6"	15'-8"	15'-7"
DR1-34	116+28.61 CONVERSE	16.00 LT	5'-0"	28'-6"	15'-9"	15'-8"
DR1-35	116+84.67 CONVERSE	16.05 LT	5'-0"	28'-0"	12'-0"	11'-6"
DR1-36	202+48.21 FOREST GLEN	16.00 RT	6'-0"	12'-6"	6'-9"	3'-3"
DR1-37	203+24.94 FOREST GLEN	16.00 RT	6'-0"	12'-6"	6'-4"	3'-7"
DR1-38	302+27.39 LAUREL	20.49 LT	6'-0"	18'-3"	8'-8"	7'-1"
DR1-39	9+26.12 LONGMEADOW	57.88 RT	6'-5"	12'-9"	5'-3"	4'-9"



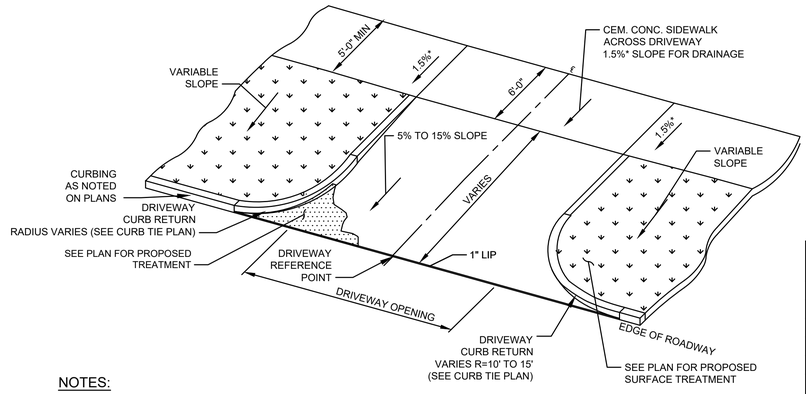
NOTES:

- * CONSTRUCTION TOLERANCE ± 0.5%
- ** OTHER WALKABLE SURFACE (GRASS, PAVERS, HMA)
- **** SIDEWALK ENDS
- ***** SEE CONSTRUCTION STANDARD 701.2.8
- ****** NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION

HMA DRIVEWAYS WITH A WIDE BUFFER STRIP - TYPE 2

N.T.S.

DR#	DRIVEWAY REFERENCE POINT		LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET		
DR2-1	2+94.04 LONGMEADOW	17.51 RT	18'-7"	18'-7"
DR2-2	119+75.99 CONVERSE ST	26.20' LT	15'-9"	15'-2"
DR2-3	120+54.55 CONVERSE ST	22.34' LT	16'-3"	14'-9"
DR2-4	121+22.22 CONVERSE ST	19.01' LT	15'-9"	15'-0"



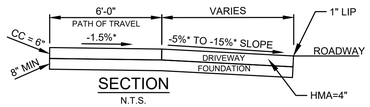
NOTES:

1. SEE CONSTRUCTION STANDARD 701.1.3 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD 701.2.8 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

SIDEWALK THROUGH DRIVEWAYS - TYPE 3

N.T.S.



SECTION
N.T.S.

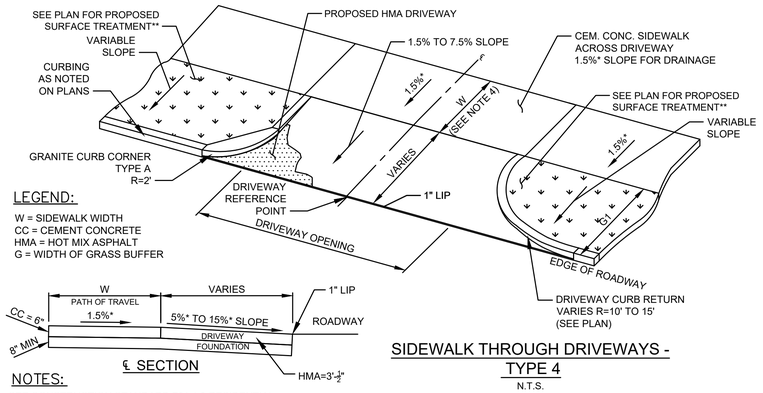
DR#	DRIVEWAY REFERENCE POINT		WIDTH OF BUFFER STRIP	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET			
DR3-1	6+32.79 LONGMEADOW	21.00 RT	10'-6"	16'-3"	17'-10"
DR3-2	7+00.70 LONGMEADOW	21.00 RT	10'-5"	11'-7"	11'-7"
DR3-3	10+25.75 LONGMEADOW	15.97 RT	5'-6"	11'-3"	11'-9"
DR3-4	11+03.52 LONGMEADOW	15.58 RT	12'-0"	7'-7"	15'-0"
DR3-5	11+84.93 LONGMEADOW	16.05 RT	18'-6"	17'-8"	17'-5"
DR3-6	12+77.20 LONGMEADOW	16.00 RT	18'-6"	16'-3"	24'-5"
DR3-7	13+10.10 LONGMEADOW	16.00 RT	12'-6"	16'-4"	15'-4"
DR3-8	16+36.13 LONGMEADOW	16.01 LT	29'-10"	22'-4"	12'-4"
DR3-9	16+54.57 LONGMEADOW	16.00 RT	10'-6"	16'-2"	16'-2"
DR3-10	16+71.10 LONGMEADOW	16.00 LT	29'-10"	10'-9"	25'-3"
DR3-11	17+14.46 LONGMEADOW	16.00 RT	10'-6"	16'-2"	15'-5"
DR3-12	18+02.28 LONGMEADOW	16.00 RT	11'-3"	16'-2"	15'-9"
DR3-13	21+19.35 LONGMEADOW	18.76 RT	9'-6"	14'-6"	14'-8"
DR3-14	22+39.79 LONGMEADOW	24.60 RT	9'-6"	13'-3"	15'-3"
DR3-15	23+08.59 LONGMEADOW	27.00 RT	10'-6"	14'-0"	15'-0"

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	86	198
PROJECT FILE NO.	608881		

PEDESTRIAN CURB RAMP/DRIVEWAY DETAILS

20170404A10_DET01.DWG 23-Jun-2025



LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
G = WIDTH OF GRASS BUFFER

℄ SECTION

SIDEWALK THROUGH DRIVEWAYS - TYPE 4

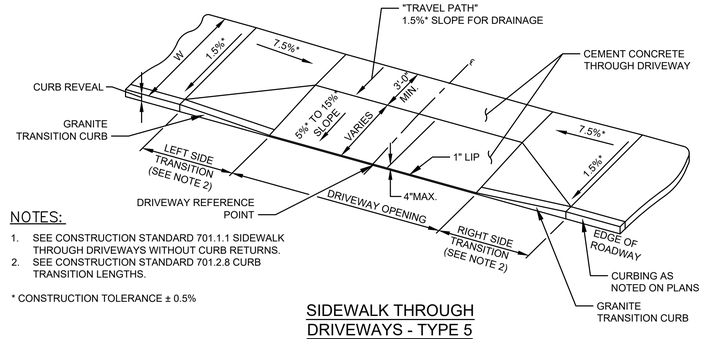
N.T.S.

NOTES:

1. SEE CONSTRUCTION STANDARD 701.1.3 RESIDENTIAL DRIVEWAYS.
2. SEE CONSTRUCTION STANDARD 701.2.8 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G1)	LEFT SIDE CURVE TRANSITION LENGTH	LEFT SIDE STRAIGHT TRANSITION LENGTH	RIGHT SIDE CURVE TRANSITION LENGTH	RIGHT SIDE STRAIGHT TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET						
DR4-1	203+96.77 FOREST GLEN	16.00 RT	6'-0"	12'-6"	-	10'-6"	6'-4"	-
DR4-2	204+10.84 FOREST GLEN	15.99 RT	6'-0"	12'-6"	3'-9"	-	-	10'-6"



NOTES:

1. SEE CONSTRUCTION STANDARD 701.1.1 SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS.
2. SEE CONSTRUCTION STANDARD 701.2.8 CURB TRANSITION LENGTHS.

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS - TYPE 5

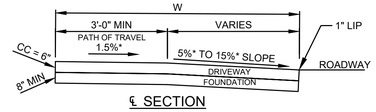
N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	LEFT SIDE TRANSITION			RIGHT SIDE TRANSITION		
	STATION/ ROADWAY	OFFSET			LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
DR5-1	305+05.51 LAUREL	21.00 RT	5'-6"	3'-0"	9'-0"	1.3%	6"	6'-6"	-1.3%	6"
DR5-2	306+11.62 LAUREL	21.00 RT	5'-6"	3'-0"	7'-8"	0.56%	6"	6'-6"	-0.56%	6"

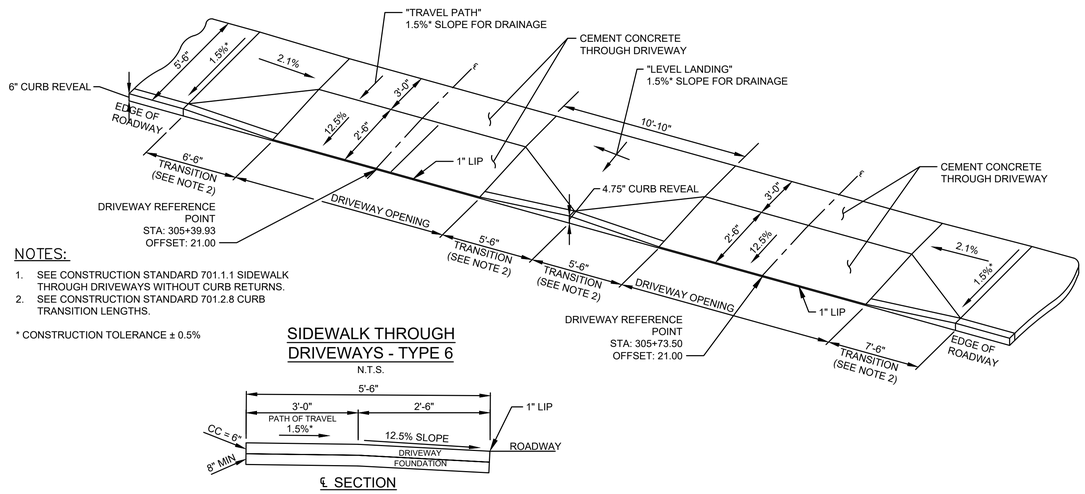
(-) REPRESENTS THE LOW SIDE TRANSITION

LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE



℄ SECTION



NOTES:

1. SEE CONSTRUCTION STANDARD 701.1.1 SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS.
2. SEE CONSTRUCTION STANDARD 701.2.8 CURB TRANSITION LENGTHS.

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS - TYPE 6

N.T.S.

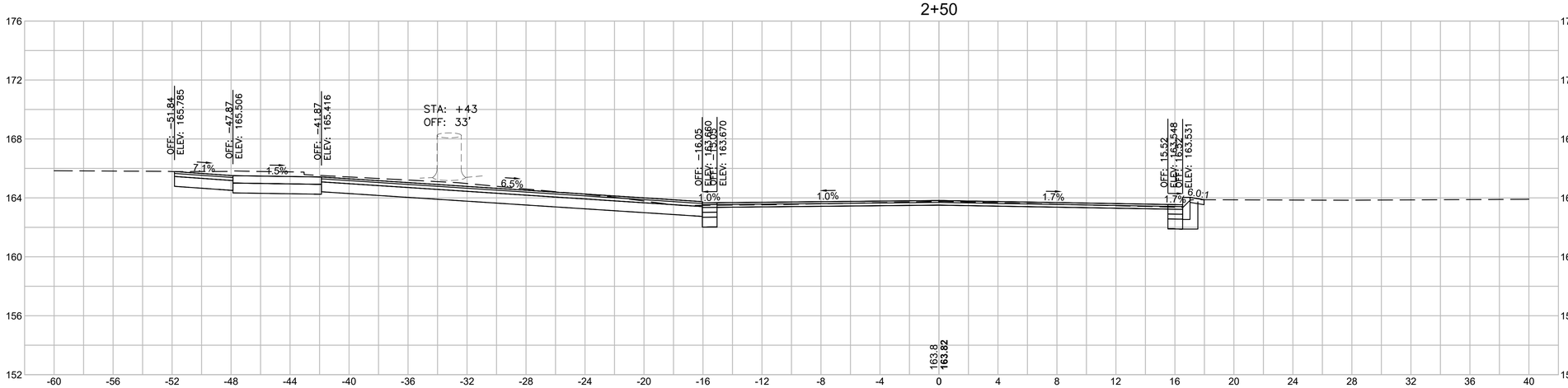
℄ SECTION

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	87	198
PROJECT FILE NO.	608881		

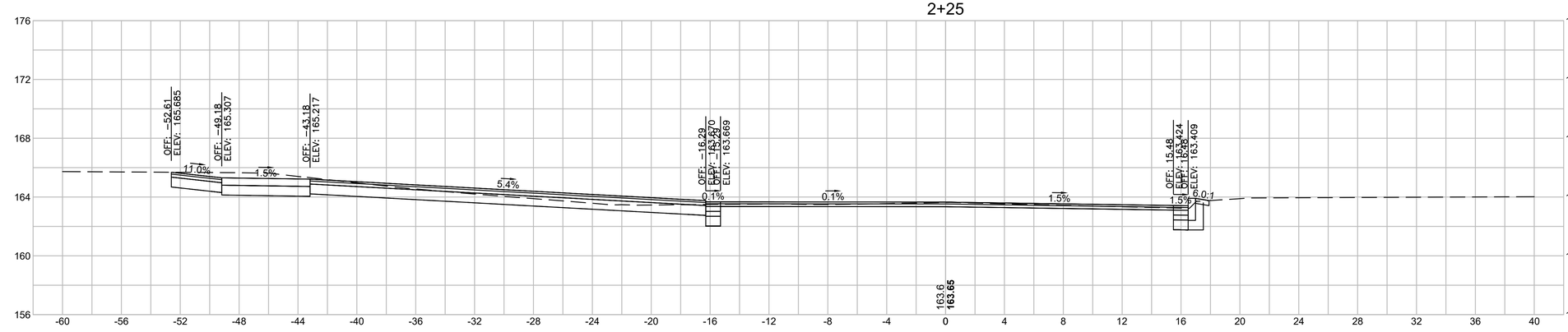
CROSS SECTIONS-LONGMEADOW STREET

2+50



Total Volume at Station 2+50.00	
Cut Area	**18.39**
Fill Area	**0.00**
Cut Vol	**25.9**
Fill Vol	**0.0**
Cum Cut Vol	**39.7**
Cum Fill Vol	**0.0**
Net Vol	**39.7**

2+25



Total Volume at Station 2+25.00	
Cut Area	**37.61**
Fill Area	**0.00**
Cut Vol	**13.8**
Fill Vol	**0.0**
Cum Cut Vol	**13.8**
Cum Fill Vol	**0.0**
Net Vol	**13.8**

2+09.46



Total Volume at Station 2+09.46	
Cut Area	**10.23**
Fill Area	**0.00**
Cut Vol	**0.0**
Fill Vol	**0.0**
Cum Cut Vol	**0.0**
Cum Fill Vol	**0.0**
Net Vol	**0.0**

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:15 PM

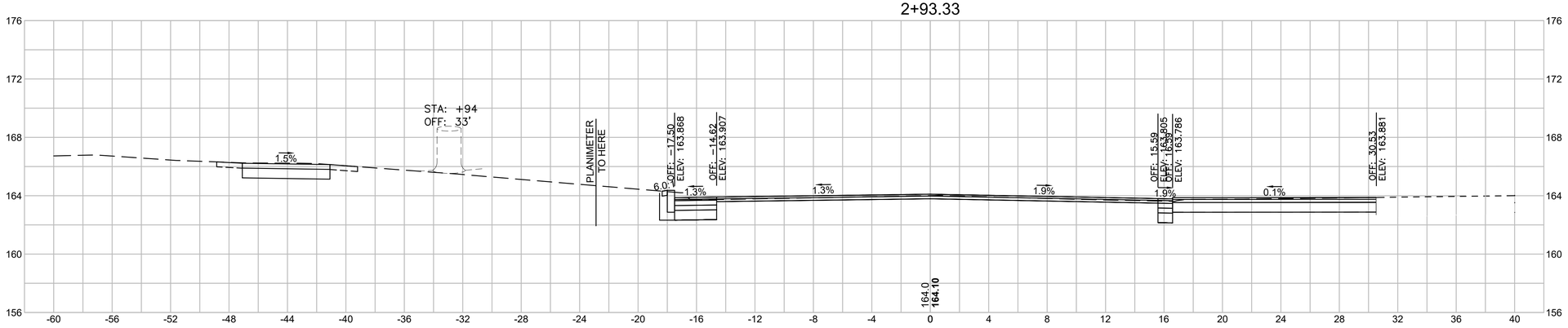
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	88	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

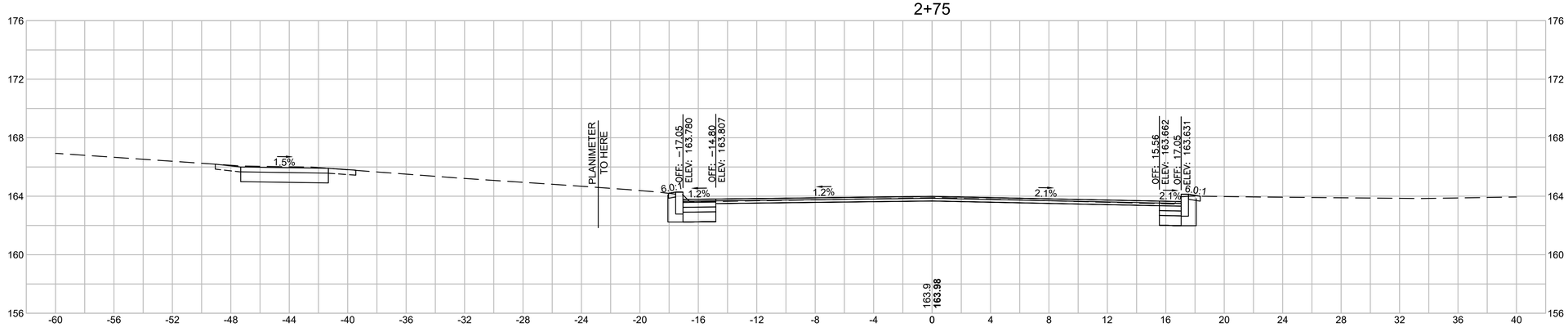
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:16 PM

2+93.33



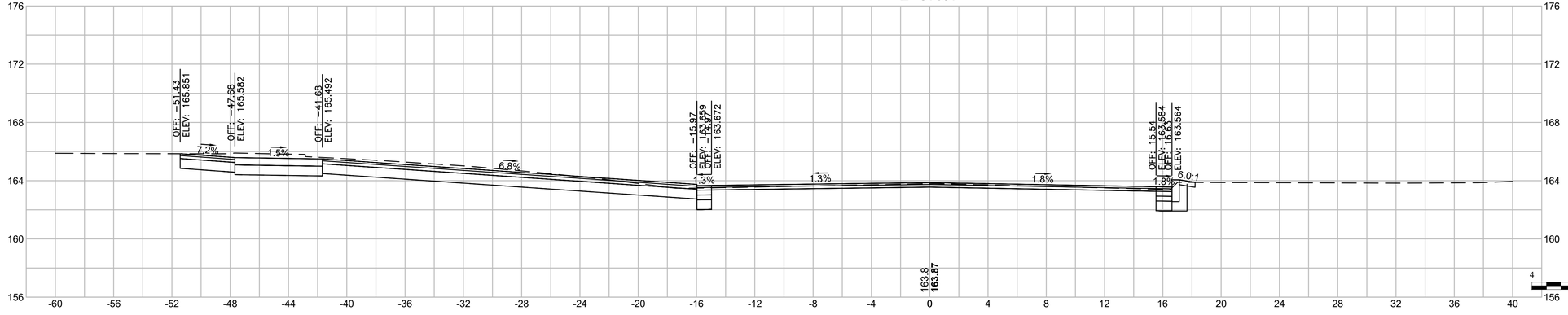
Total Volume at Station 2+93.33	
Cut Area	**32.41**
Fill Area	**0.00**
Cut Vol	**13.4**
Fill Vol	**0.0**
Cum Cut Vol	**78.8**
Cum Fill Vol	**0.0**
Net Vol	**78.8**

2+75



Total Volume at Station 2+75.00	
Cut Area	**7.21**
Fill Area	**0.00**
Cut Vol	**16.7**
Fill Vol	**0.0**
Cum Cut Vol	**65.4**
Cum Fill Vol	**0.0**
Net Vol	**65.4**

2+57.67



Total Volume at Station 2+57.67	
Cut Area	**44.88**
Fill Area	**0.00**
Cut Vol	**9.0**
Fill Vol	**0.0**
Cum Cut Vol	**48.7**
Cum Fill Vol	**0.0**
Net Vol	**48.7**

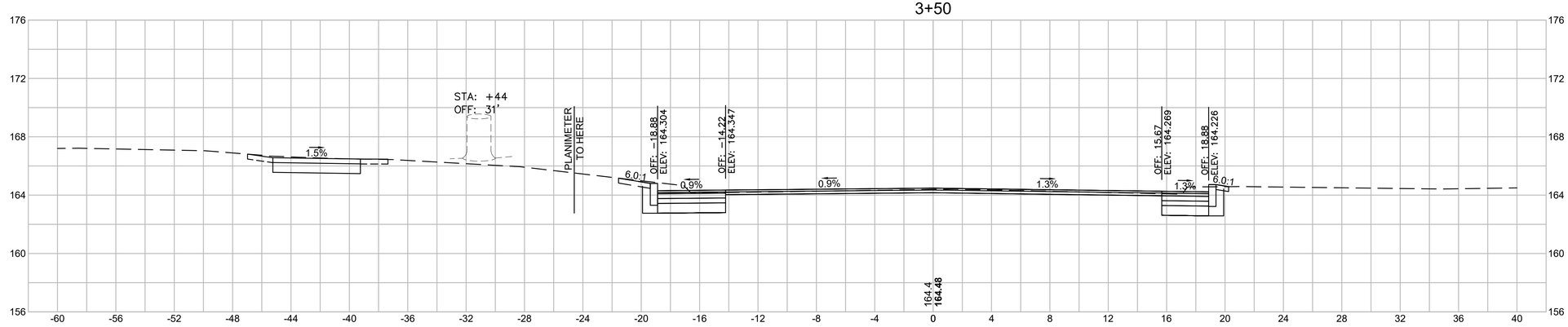
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	89	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

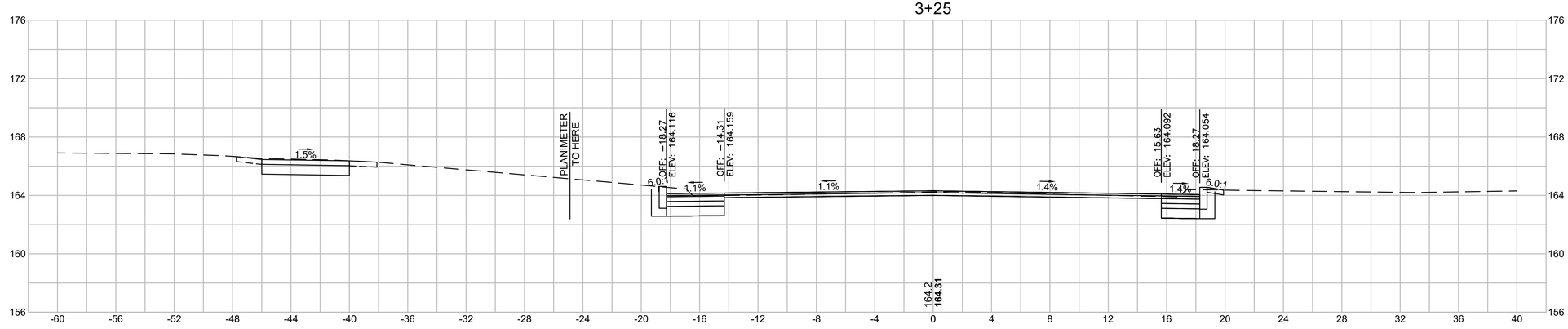
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

3+50



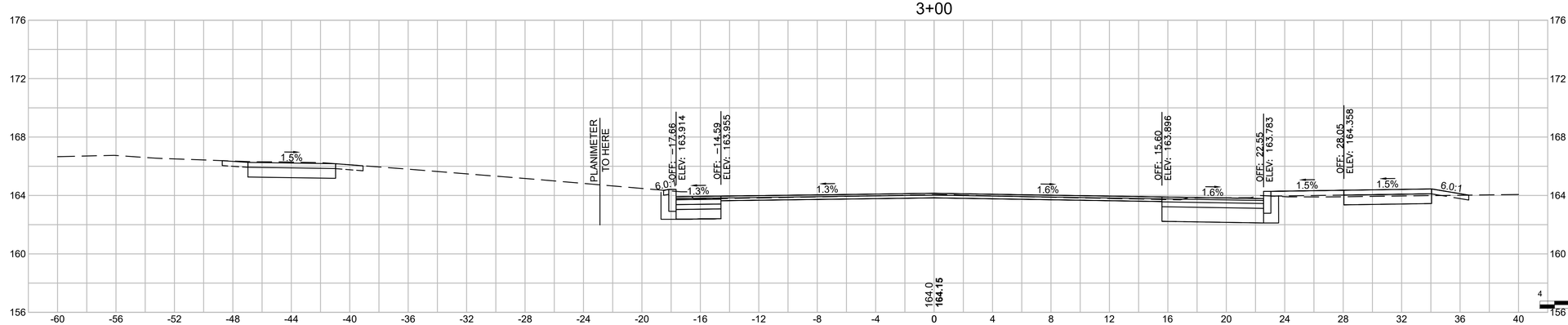
Total Volume at Station 3+50.00	
Cut Area	**15.78**
Fill Area	**0.00**
Cut Vol	**13.1**
Fill Vol	**0.0**
Cum Cut Vol	**115.3**
Cum Fill Vol	**0.0**
Net Vol	**115.3**

3+25



Total Volume at Station 3+25.00	
Cut Area	**12.45**
Fill Area	**0.00**
Cut Vol	**16.5**
Fill Vol	**0.0**
Cum Cut Vol	**102.2**
Cum Fill Vol	**0.0**
Net Vol	**102.2**

3+00



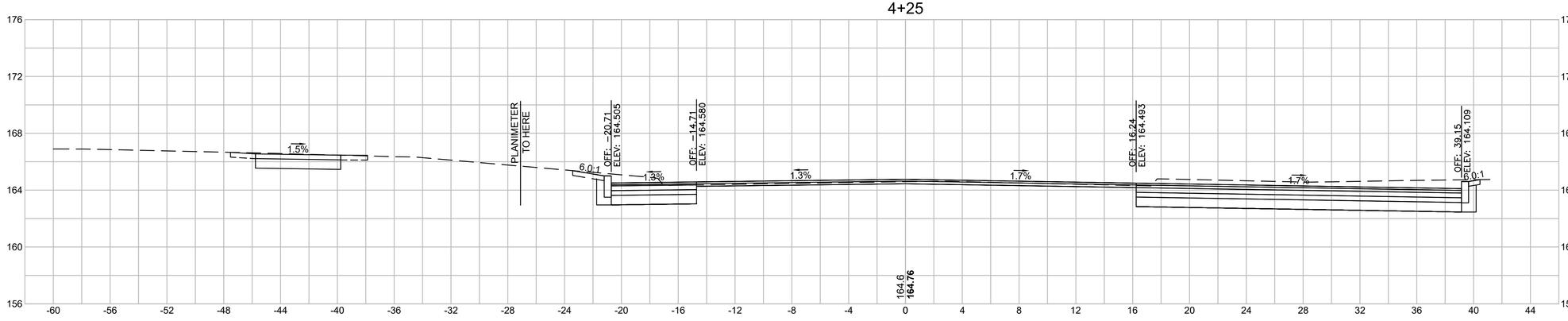
Total Volume at Station 3+00.00	
Cut Area	**23.19**
Fill Area	**0.00**
Cut Vol	**6.9**
Fill Vol	**0.0**
Cum Cut Vol	**85.7**
Cum Fill Vol	**0.0**
Net Vol	**85.7**

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	90	198
PROJECT FILE NO.	608881		

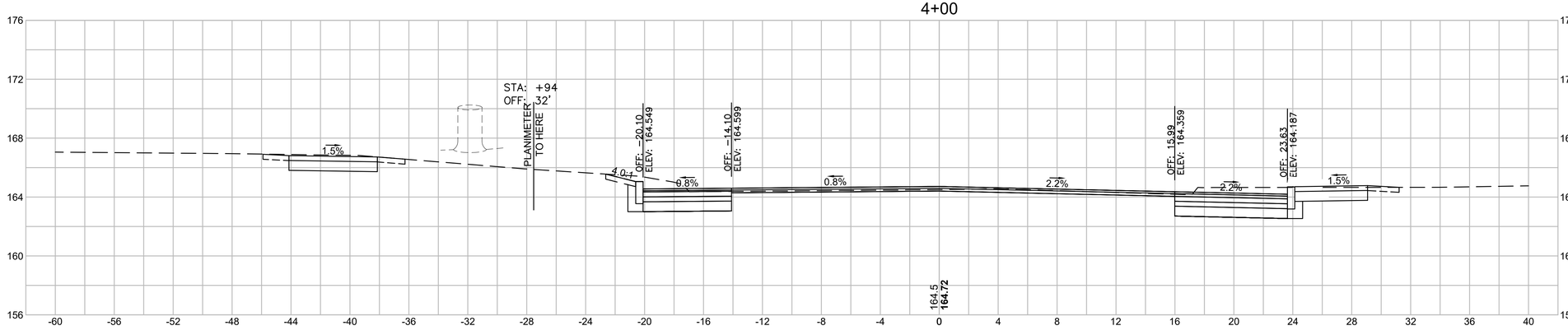
CROSS SECTIONS-LONGMEADOW STREET

4+25



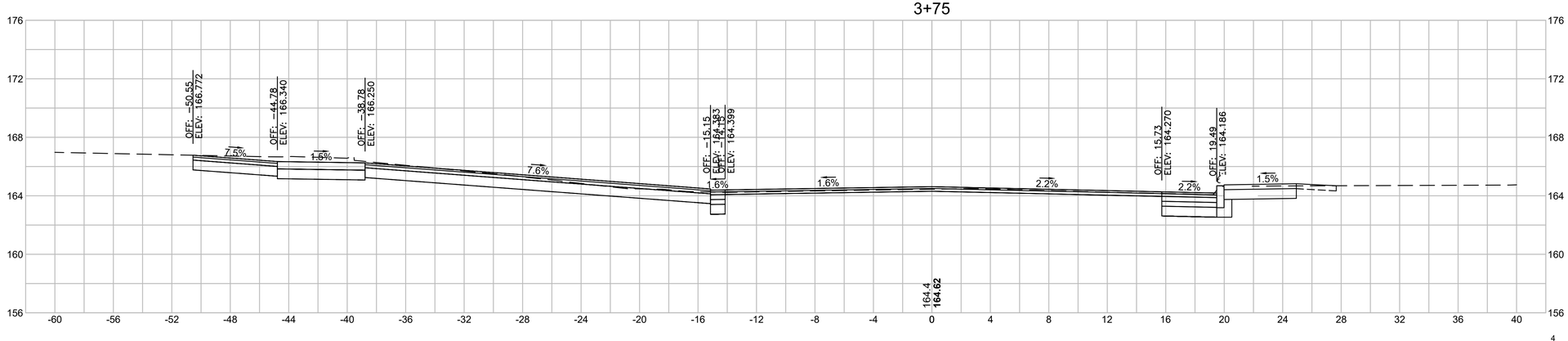
Total Volume at Station 4+25.00	
Cut Area	**67.10**
Fill Area	**0.00**
Cut Vol	**46.3**
Fill Vol	**0.0**
Cum Cut Vol	**222.1**
Cum Fill Vol	**0.0**
Net Vol	**222.1**

4+00



Total Volume at Station 4+00.00	
Cut Area	**32.95**
Fill Area	**0.00**
Cut Vol	**34.2**
Fill Vol	**0.0**
Cum Cut Vol	**175.7**
Cum Fill Vol	**0.0**
Net Vol	**175.7**

3+75



Total Volume at Station 3+75.00	
Cut Area	**40.92**
Fill Area	**0.00**
Cut Vol	**26.3**
Fill Vol	**0.0**
Cum Cut Vol	**141.5**
Cum Fill Vol	**0.0**
Net Vol	**141.5**

4 0 4 8
SCALE IN FEET

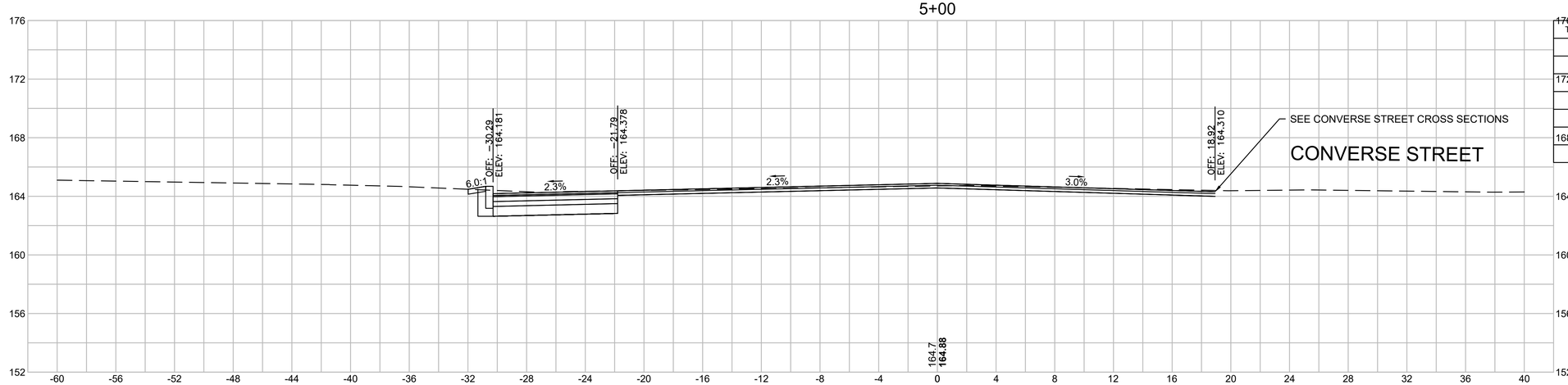
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	91	198
PROJECT FILE NO.	608881		

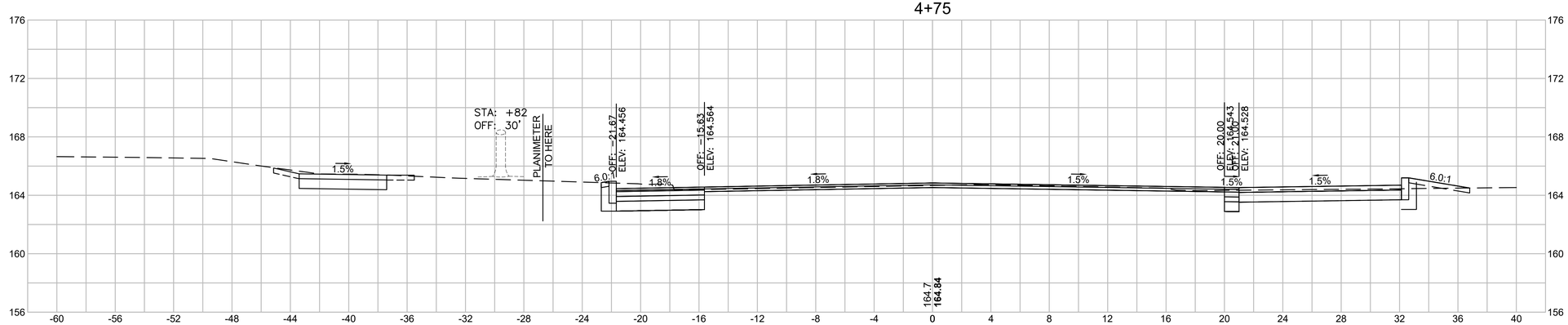
CROSS SECTIONS-LONGMEADOW STREET

5+00



Total Volume at Station 5+00.00	
Cut Area	**19.76**
Fill Area	**0.00**
Cut Vol	**27.5**
Fill Vol	**0.0**
Cum Cut Vol	**317.3**
Cum Fill Vol	**0.0**
Net Vol	**317.3**

4+75



Total Volume at Station 4+75.00	
Cut Area	**39.55**
Fill Area	**0.00**
Cut Vol	**27.5**
Fill Vol	**0.0**
Cum Cut Vol	**289.9**
Cum Fill Vol	**0.0**
Net Vol	**289.9**

4+50



Total Volume at Station 4+50.00	
Cut Area	**19.90**
Fill Area	**0.00**
Cut Vol	**40.3**
Fill Vol	**0.0**
Cum Cut Vol	**262.3**
Cum Fill Vol	**0.0**
Net Vol	**262.3**

4 0 4 8
SCALE IN FEET

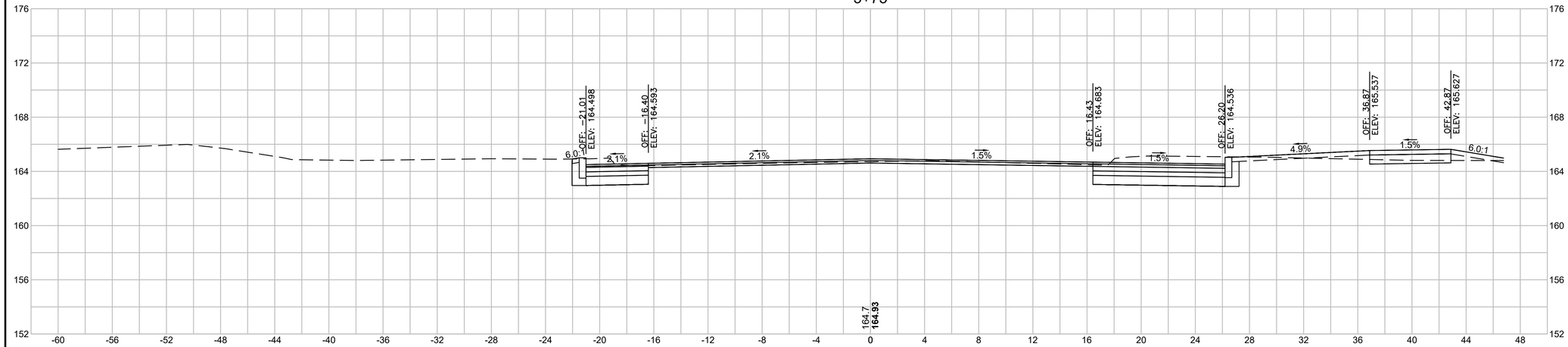
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:16 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	92	198
PROJECT FILE NO.	608881		

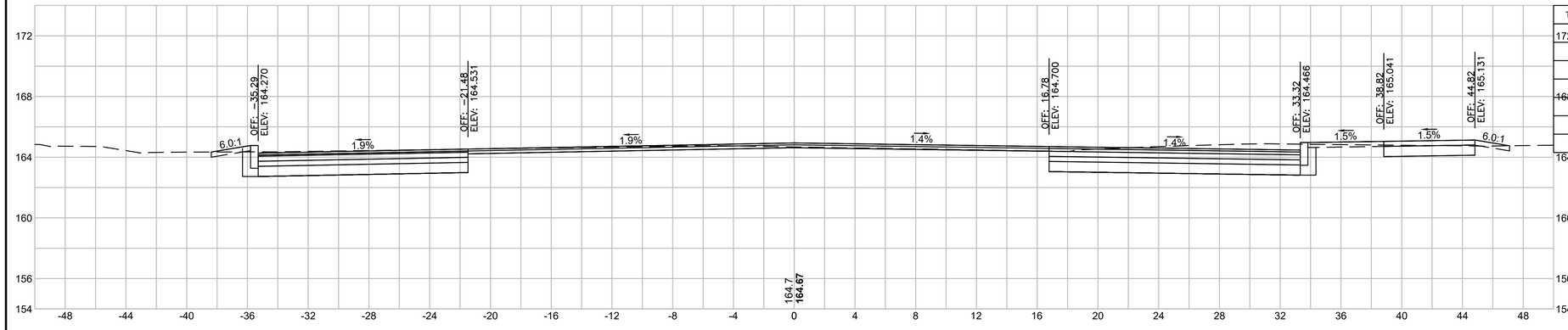
CROSS SECTIONS-LONGMEADOW STREET

5+75



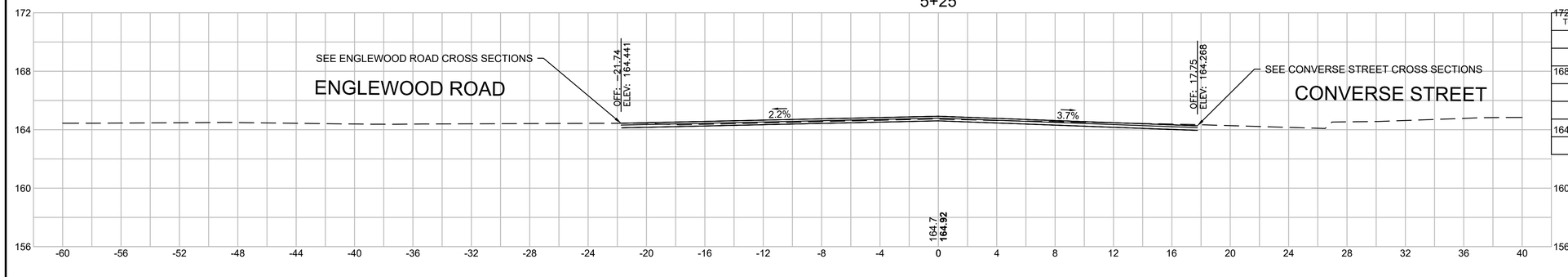
Total Volume at Station 5+75.00	
Cut Area	**47.35**
Fill Area	**0.00**
Cut Vol	**47.8**
Fill Vol	**0.0**
Cum Cut Vol	**414.4**
Cum Fill Vol	**0.0**
Net Vol	**414.4**

5+50



Total Volume at Station 5+50.00	
Cut Area	**55.86**
Fill Area	**0.00**
Cut Vol	**33.0**
Fill Vol	**0.0**
Cum Cut Vol	**366.6**
Cum Fill Vol	**0.0**
Net Vol	**366.6**

5+25



Total Volume at Station 5+25.00	
Cut Area	**15.45**
Fill Area	**0.00**
Cut Vol	**16.3**
Fill Vol	**0.0**
Cum Cut Vol	**333.6**
Cum Fill Vol	**0.0**
Net Vol	**333.6**

4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:16 PM

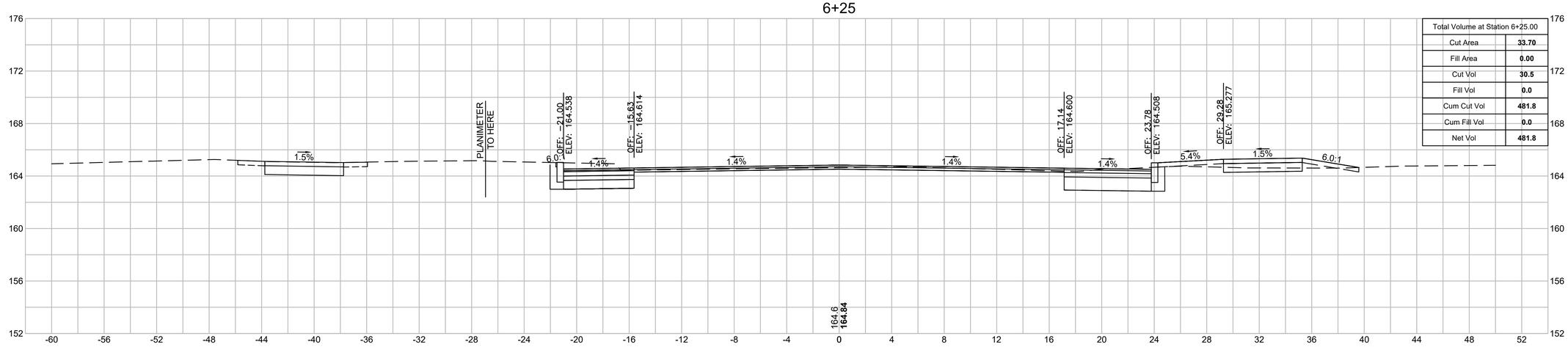
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	93	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

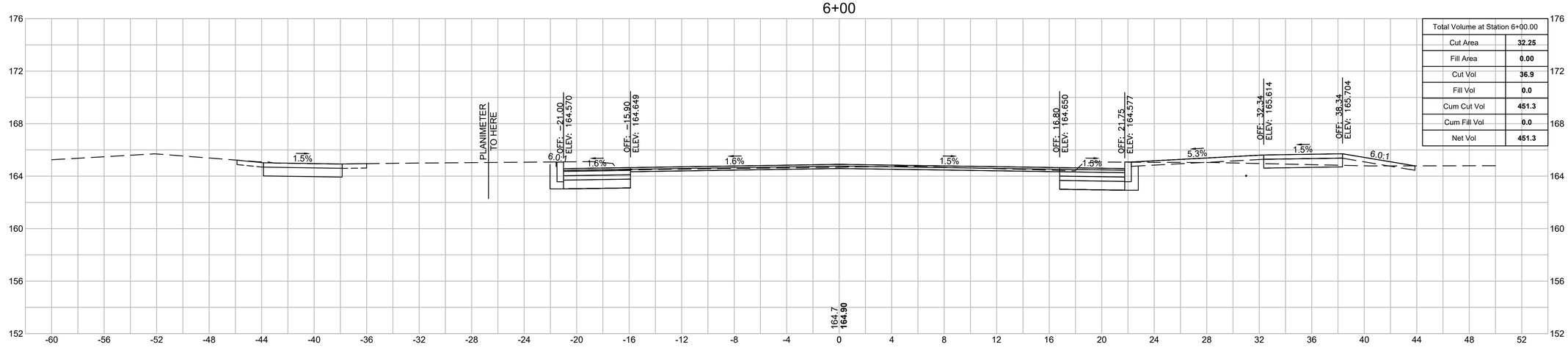
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:16 PM

6+25



Total Volume at Station 6+25.00	
Cut Area	**33.70**
Fill Area	**0.00**
Cut Vol	**30.5**
Fill Vol	**0.0**
Cum Cut Vol	**481.8**
Cum Fill Vol	**0.0**
Net Vol	**481.8**

6+00



Total Volume at Station 6+00.00	
Cut Area	**32.25**
Fill Area	**0.00**
Cut Vol	**36.9**
Fill Vol	**0.0**
Cum Cut Vol	**451.3**
Cum Fill Vol	**0.0**
Net Vol	**451.3**

4 0 4 8
SCALE IN FEET

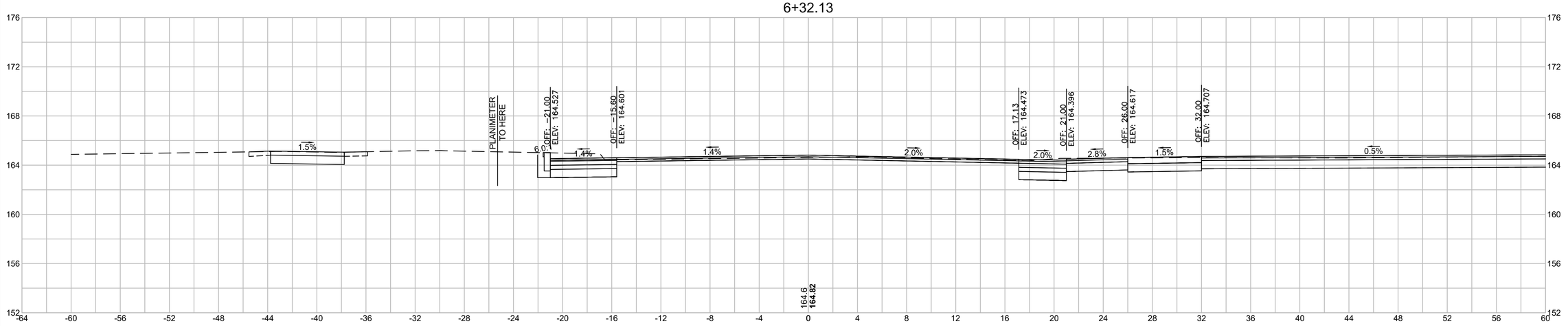
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	94	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

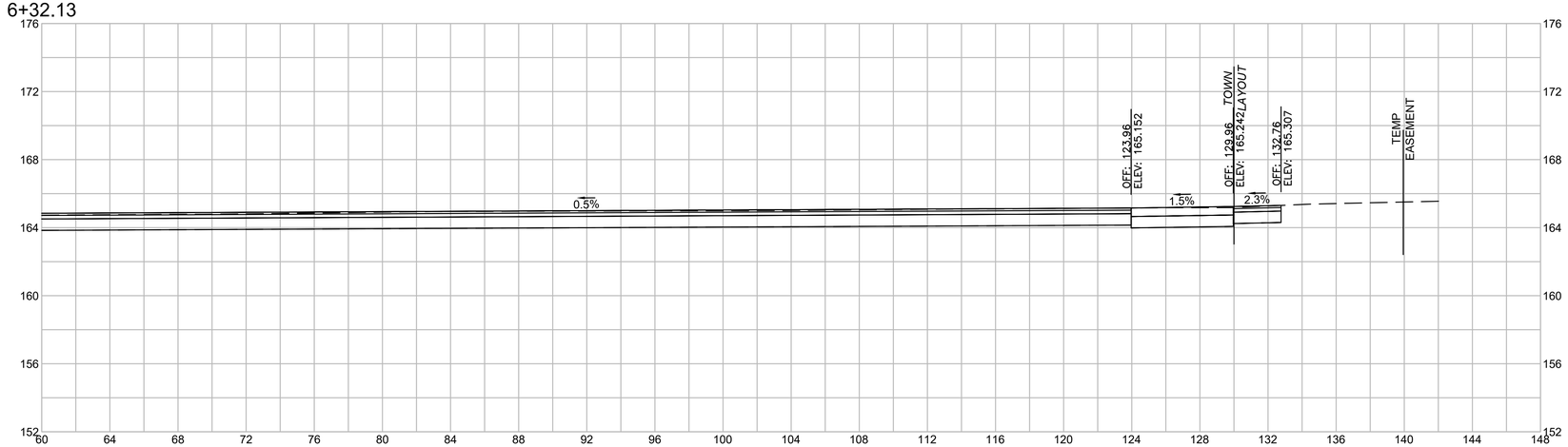
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:16 PM

6+32.13



Total Volume at Station 6+32.13	
Cut Area	**115.51**
Fill Area	**0.00**
Cut Vol	**19.7**
Fill Vol	**0.0**
Cum Cut Vol	**501.5**
Cum Fill Vol	**0.0**
Net Vol	**501.5**

6+32.13

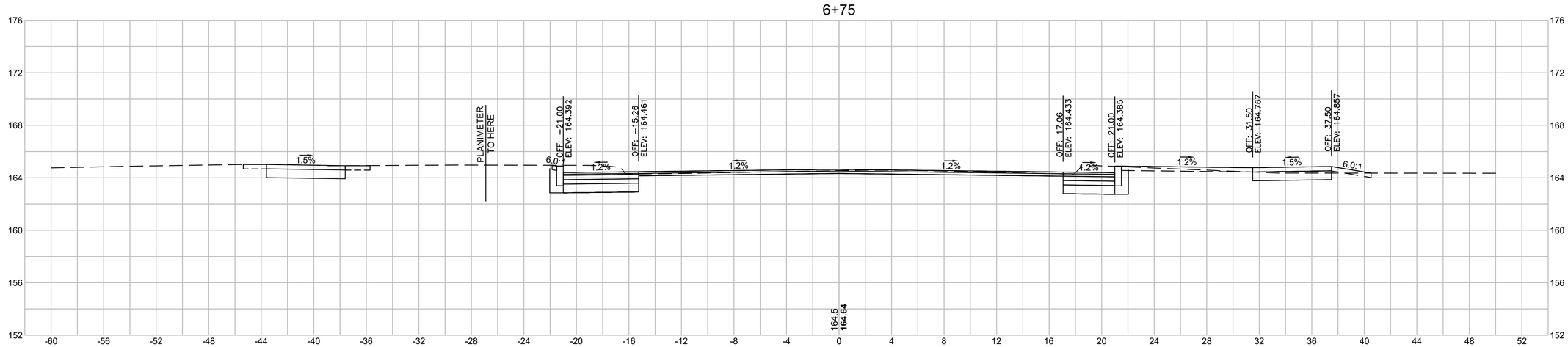


4 0 4 8
SCALE IN FEET

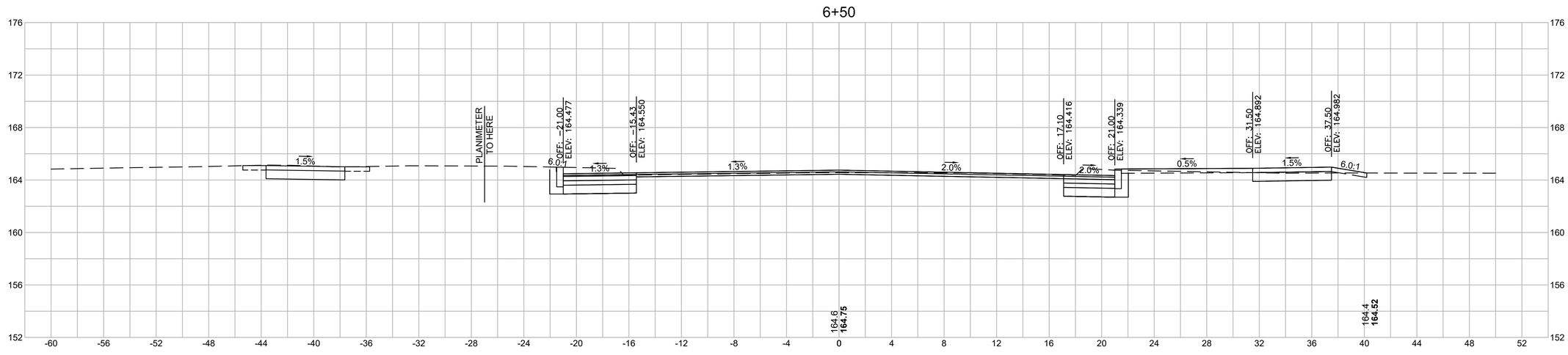
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	95	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 6+75.00	
Cut Area	**28.81**
Fill Area	**0.00**
Cut Vol	**27.6**
Fill Vol	**0.0**
Cum Cut Vol	**577.5**
Cum Fill Vol	**0.0**
Net Vol	**577.5**



Total Volume at Station 6+50.00	
Cut Area	**30.79**
Fill Area	**0.00**
Cut Vol	**48.4**
Fill Vol	**0.0**
Cum Cut Vol	**549.9**
Cum Fill Vol	**0.0**
Net Vol	**549.9**

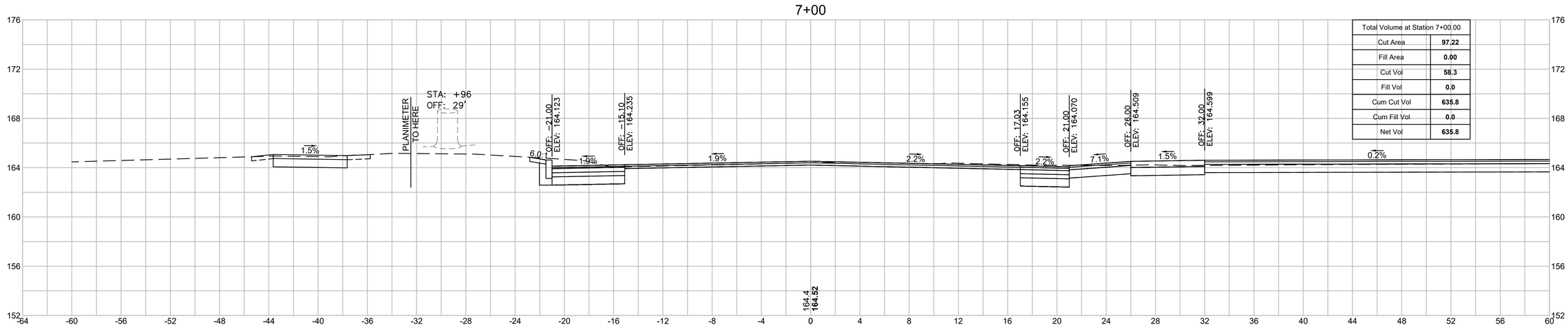
4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:17 PM

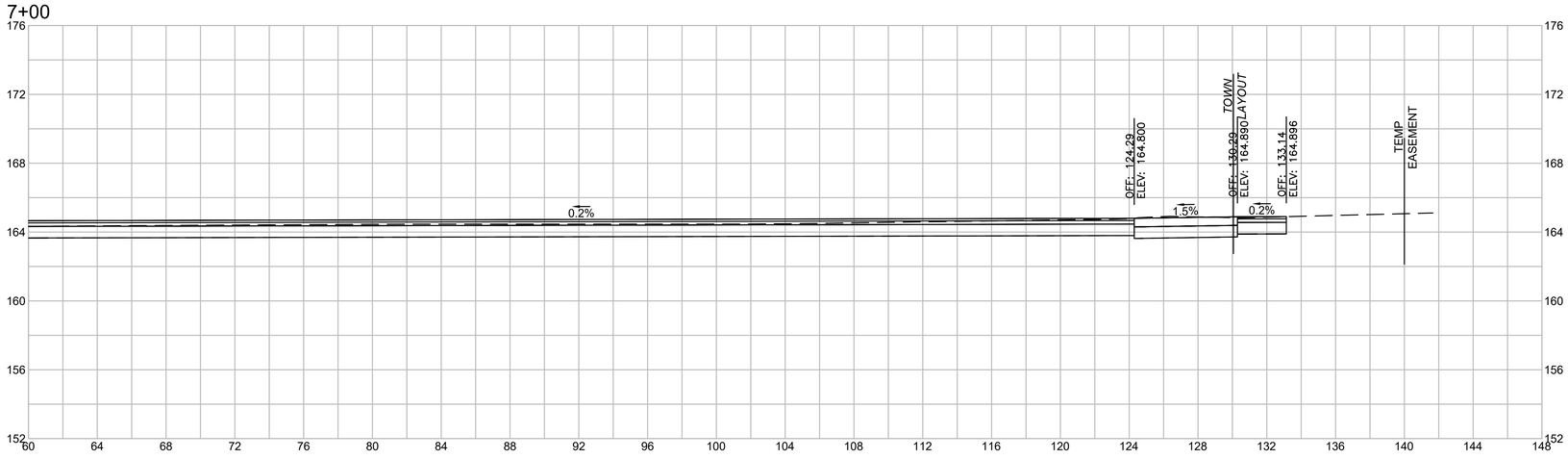
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	96	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 7+00.00	
Cut Area	**97.22**
Fill Area	**0.00**
Cut Vol	**58.3**
Fill Vol	**0.0**
Cum Cut Vol	**635.8**
Cum Fill Vol	**0.0**
Net Vol	**635.8**



SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:17 PM

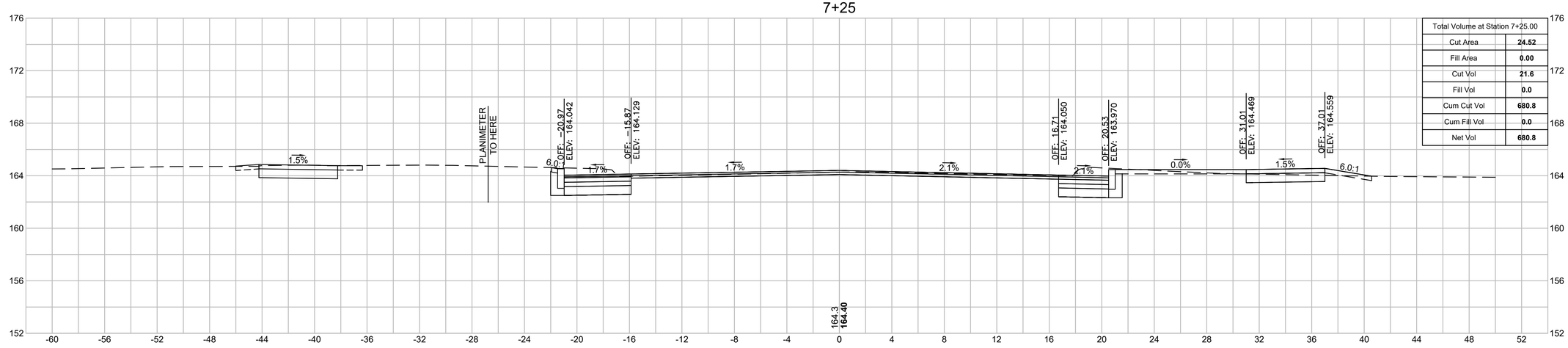
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	97	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

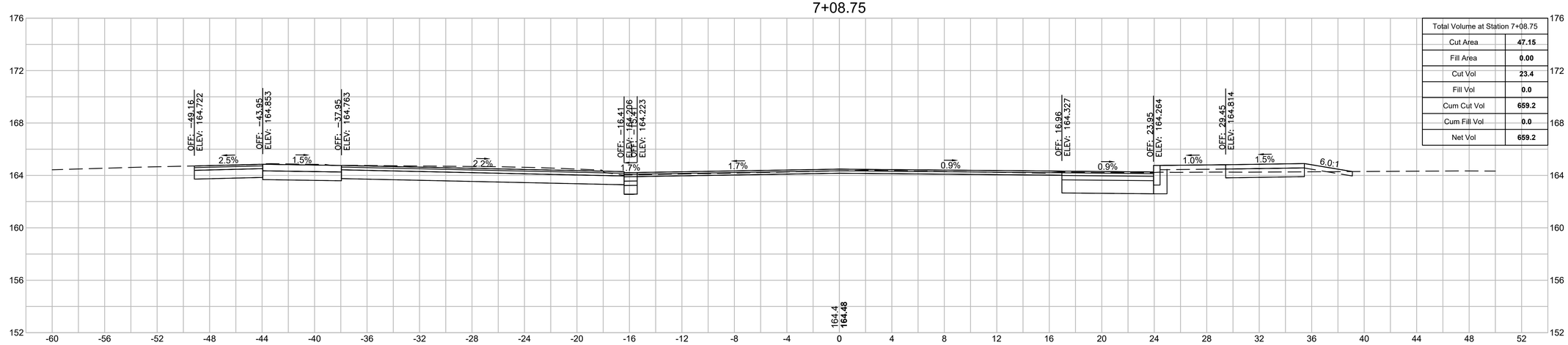
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:17 PM

7+25



Total Volume at Station 7+25.00	
Cut Area	**24.52**
Fill Area	**0.00**
Cut Vol	**21.6**
Fill Vol	**0.0**
Cum Cut Vol	**680.8**
Cum Fill Vol	**0.0**
Net Vol	**680.8**

7+08.75



Total Volume at Station 7+08.75	
Cut Area	**47.15**
Fill Area	**0.00**
Cut Vol	**23.4**
Fill Vol	**0.0**
Cum Cut Vol	**659.2**
Cum Fill Vol	**0.0**
Net Vol	**659.2**

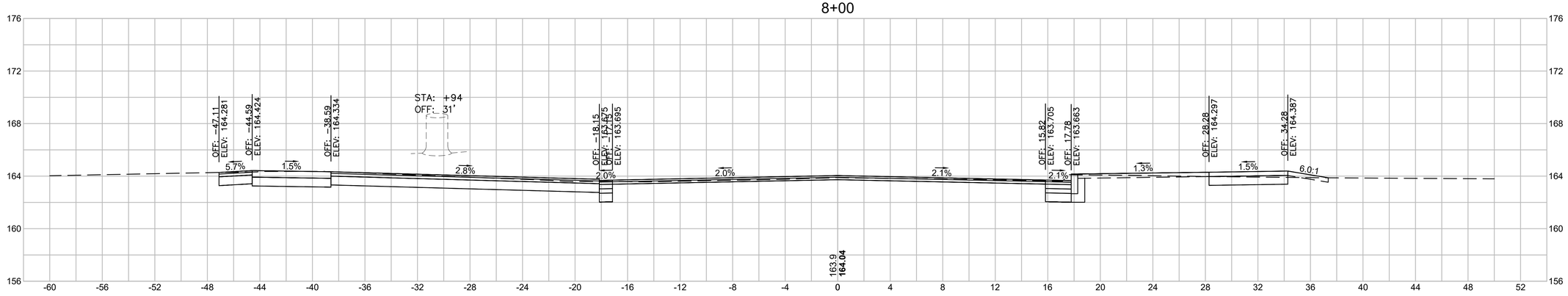
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	98	198
	PROJECT FILE NO. 608881		

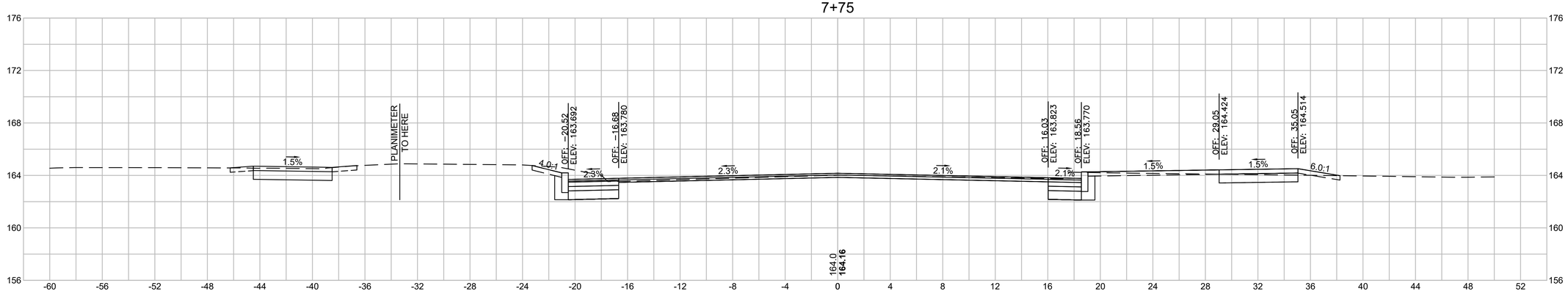
CROSS SECTIONS-LONGMEADOW STREET

8+00



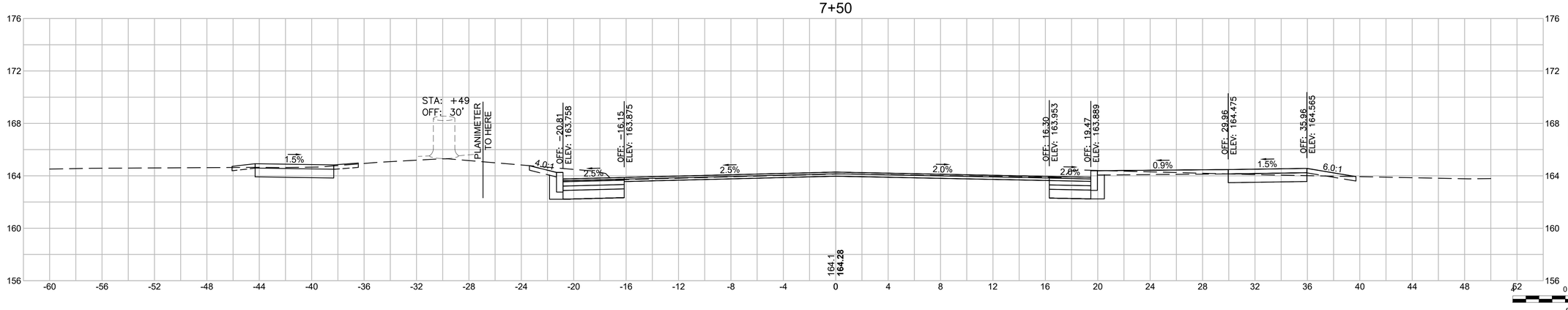
Total Volume at Station 8+00.00	
Cut Area	**30.73**
Fill Area	**0.00**
Cut Vol	**23.4**
Fill Vol	**0.0**
Cum Cut Vol	**746.5**
Cum Fill Vol	**0.0**
Net Vol	**746.5**

7+75



Total Volume at Station 7+75.00	
Cut Area	**19.92**
Fill Area	**0.00**
Cut Vol	**20.1**
Fill Vol	**0.0**
Cum Cut Vol	**723.1**
Cum Fill Vol	**0.0**
Net Vol	**723.1**

7+50



Total Volume at Station 7+50.00	
Cut Area	**23.42**
Fill Area	**0.00**
Cut Vol	**22.2**
Fill Vol	**0.0**
Cum Cut Vol	**703.0**
Cum Fill Vol	**0.0**
Net Vol	**703.0**

Plotted on 23-Jun-2025 5:17 PM

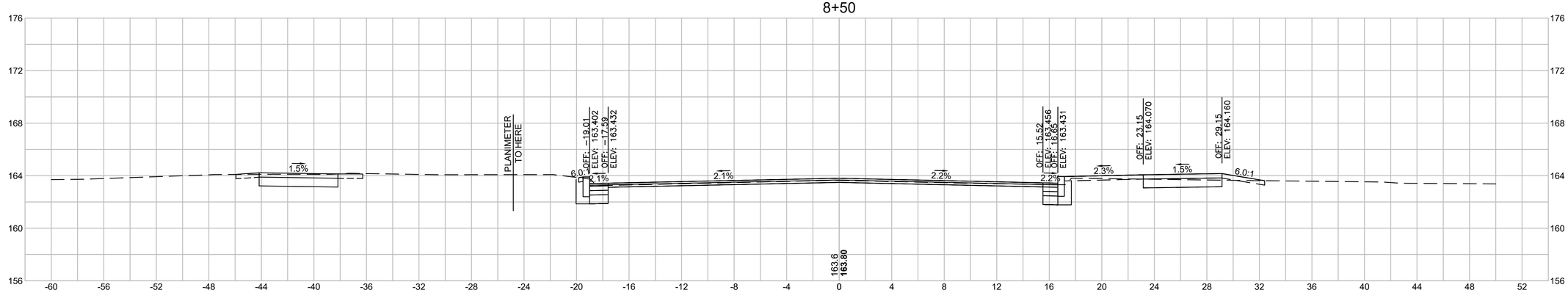
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	99	198
PROJECT FILE NO.	608881		

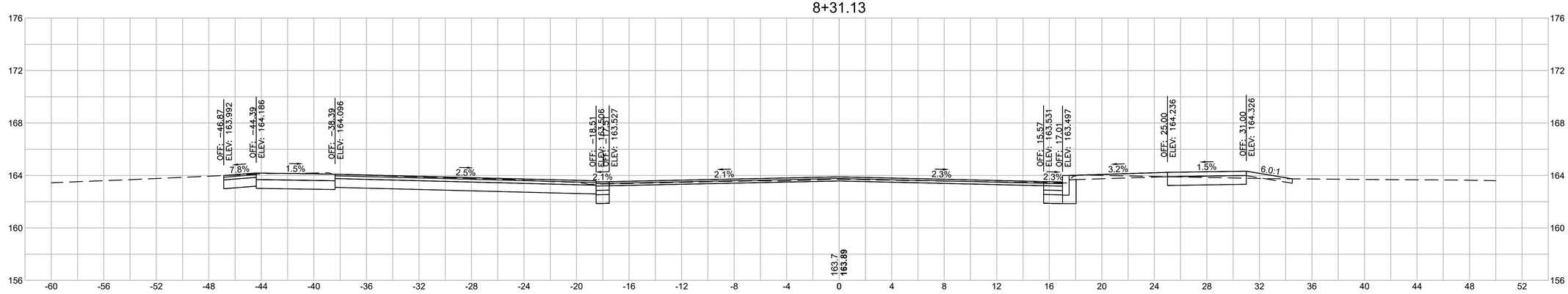
CROSS SECTIONS-LONGMEADOW STREET

8+50



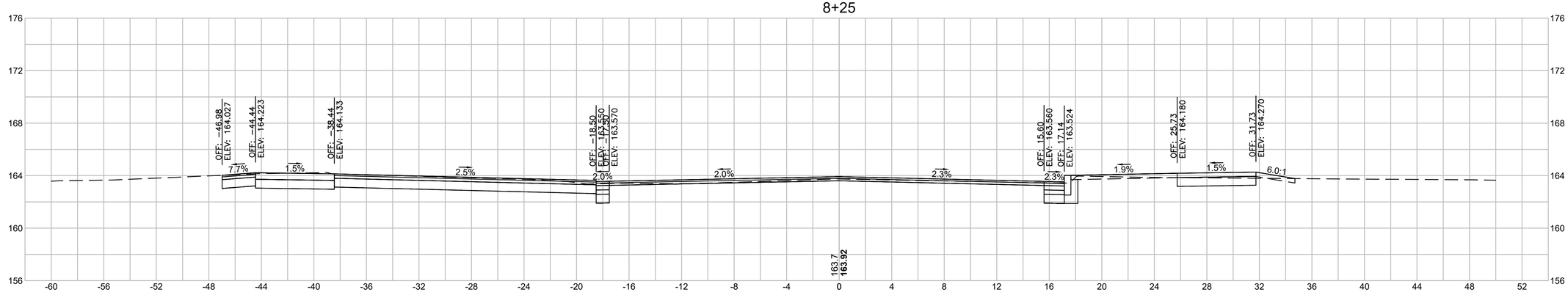
Total Volume at Station 8+50.00	
Cut Area	**23.63**
Fill Area	**0.00**
Cut Vol	**22.0**
Fill Vol	**0.0**
Cum Cut Vol	**807.1**
Cum Fill Vol	**0.0**
Net Vol	**807.1**

8+31.13



Total Volume at Station 8+31.13	
Cut Area	**39.44**
Fill Area	**0.00**
Cut Vol	**8.4**
Fill Vol	**0.0**
Cum Cut Vol	**785.1**
Cum Fill Vol	**0.0**
Net Vol	**785.1**

8+25



Total Volume at Station 8+25.00	
Cut Area	**34.41**
Fill Area	**0.00**
Cut Vol	**30.2**
Fill Vol	**0.0**
Cum Cut Vol	**776.7**
Cum Fill Vol	**0.0**
Net Vol	**776.7**

4 0 4 8
SCALE IN FEET

Plotted on 23-Jun-2025 5:17 PM
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

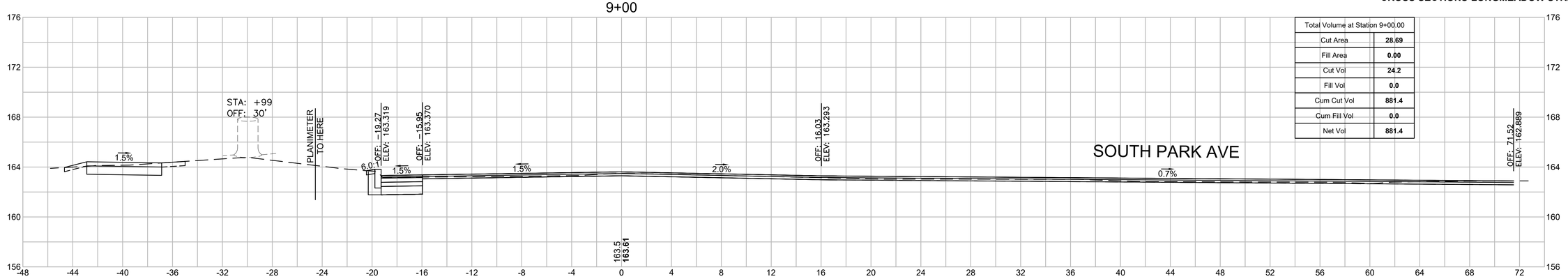
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	100	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

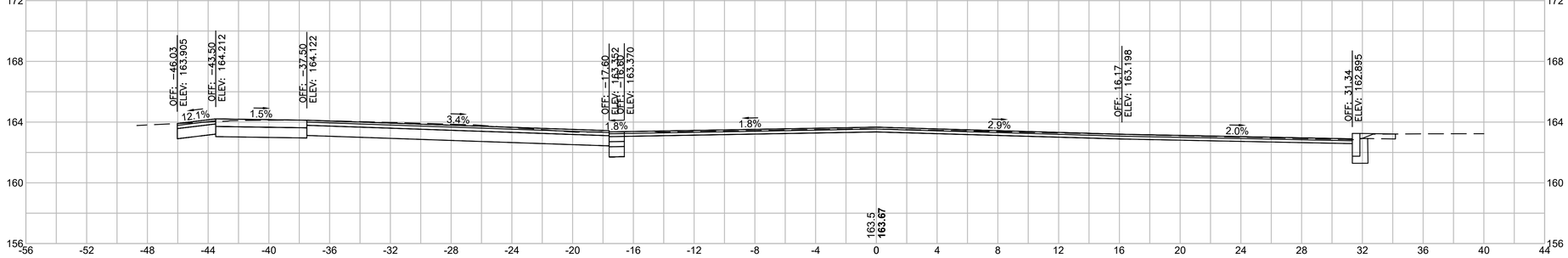
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

9+00



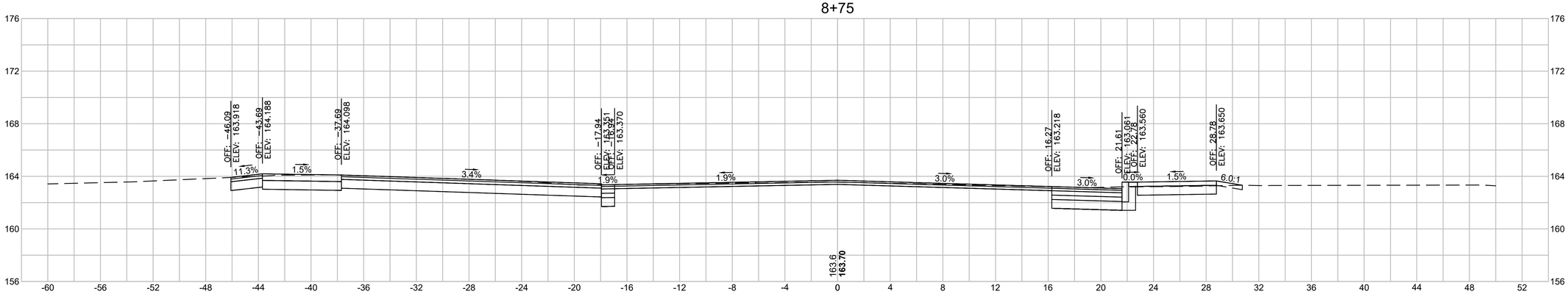
Total Volume at Station 9+00.00	
Cut Area	**28.69**
Fill Area	**0.00**
Cut Vol	**24.2**
Fill Vol	**0.0**
Cum Cut Vol	**881.4**
Cum Fill Vol	**0.0**
Net Vol	**881.4**

8+84.06



Total Volume at Station 8+84.06	
Cut Area	**53.13**
Fill Area	**0.00**
Cut Vol	**17.0**
Fill Vol	**0.0**
Cum Cut Vol	**857.2**
Cum Fill Vol	**0.0**
Net Vol	**857.2**

8+75



Total Volume at Station 8+75.00	
Cut Area	**47.97**
Fill Area	**0.00**
Cut Vol	**33.2**
Fill Vol	**0.0**
Cum Cut Vol	**840.3**
Cum Fill Vol	**0.0**
Net Vol	**840.3**

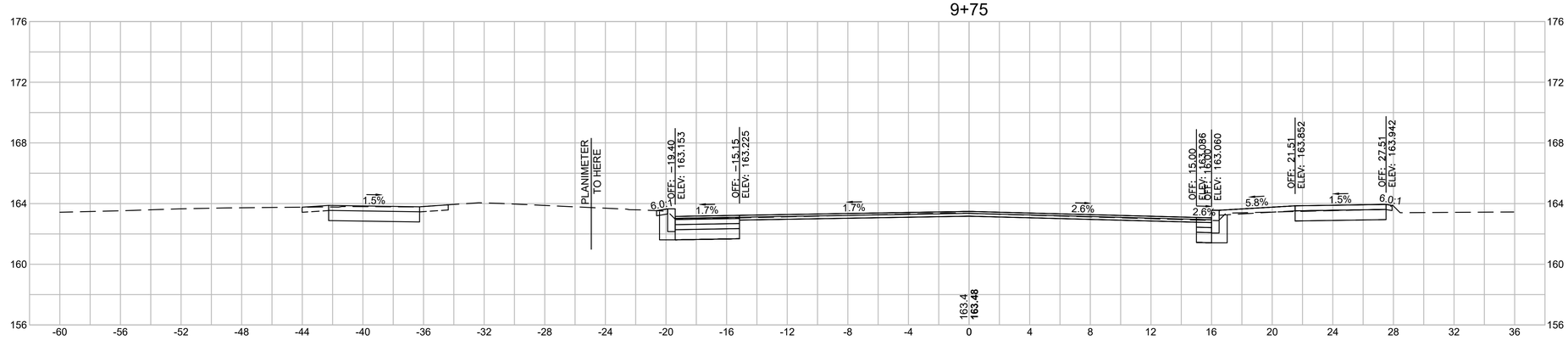
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	101	198
PROJECT FILE NO.	608881		

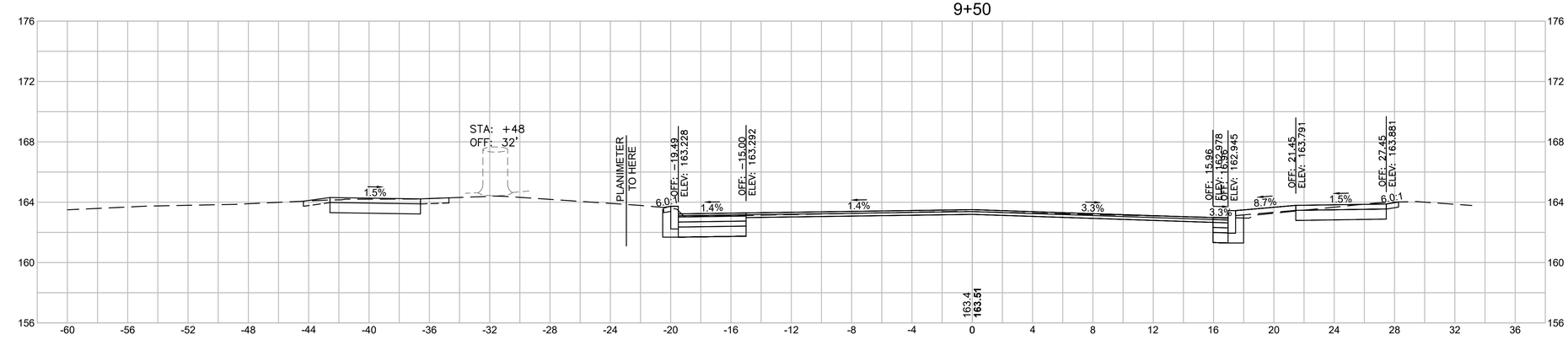
CROSS SECTIONS-LONGMEADOW STREET

9+75



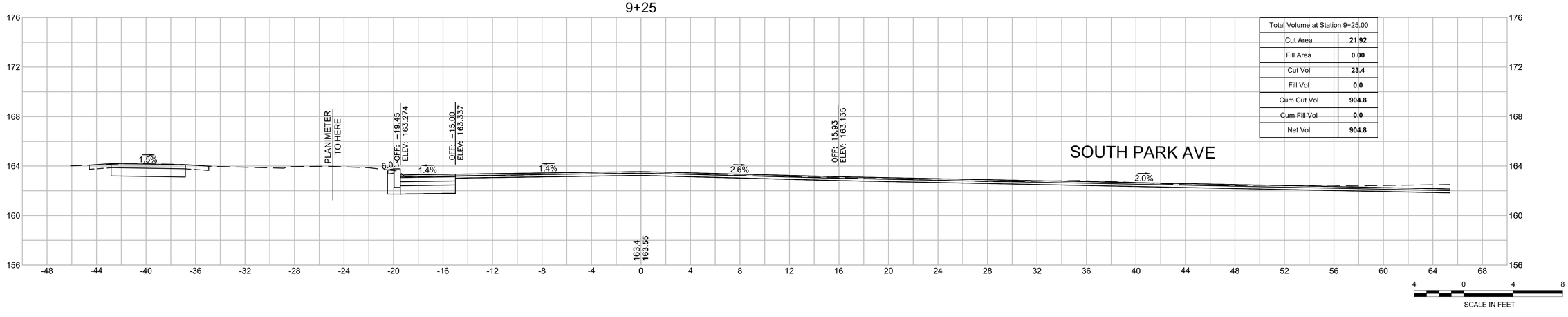
Total Volume at Station 9+75.00	
Cut Area	**14.28**
Fill Area	**0.00**
Cut Vol	**15.2**
Fill Vol	**0.0**
Cum Cut Vol	**938.8**
Cum Fill Vol	**0.0**
Net Vol	**938.8**

9+50



Total Volume at Station 9+50.00	
Cut Area	**18.62**
Fill Area	**0.00**
Cut Vol	**18.8**
Fill Vol	**0.0**
Cum Cut Vol	**923.6**
Cum Fill Vol	**0.0**
Net Vol	**923.6**

9+25



Total Volume at Station 9+25.00	
Cut Area	**21.92**
Fill Area	**0.00**
Cut Vol	**23.4**
Fill Vol	**0.0**
Cum Cut Vol	**904.8**
Cum Fill Vol	**0.0**
Net Vol	**904.8**

4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:18 PM

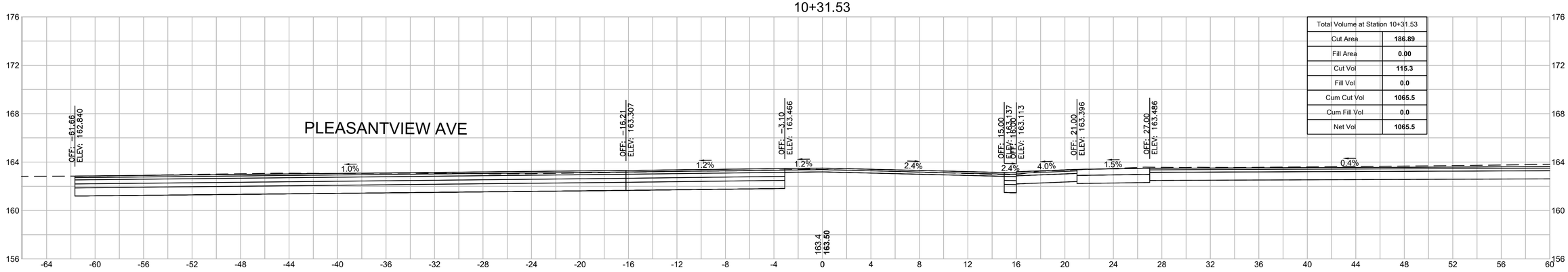
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	102	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

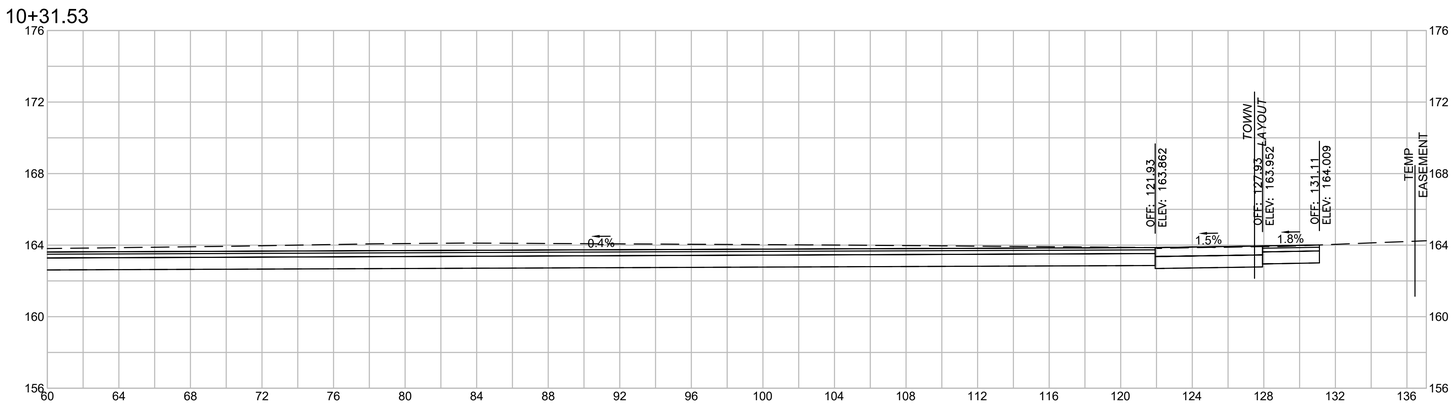
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

10+31.53

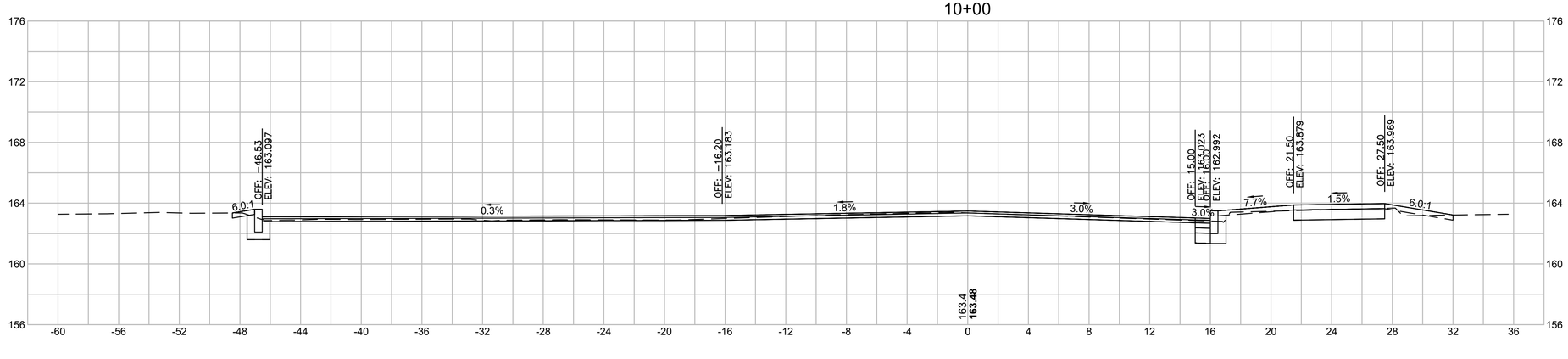


Total Volume at Station 10+31.53	
Cut Area	**186.89**
Fill Area	**0.00**
Cut Vol	**115.3**
Fill Vol	**0.0**
Cum Cut Vol	**1065.5**
Cum Fill Vol	**0.0**
Net Vol	**1065.5**

10+31.53



10+00



Total Volume at Station 10+00.00	
Cut Area	**10.51**
Fill Area	**0.00**
Cut Vol	**11.5**
Fill Vol	**0.0**
Cum Cut Vol	**950.3**
Cum Fill Vol	**0.0**
Net Vol	**950.3**

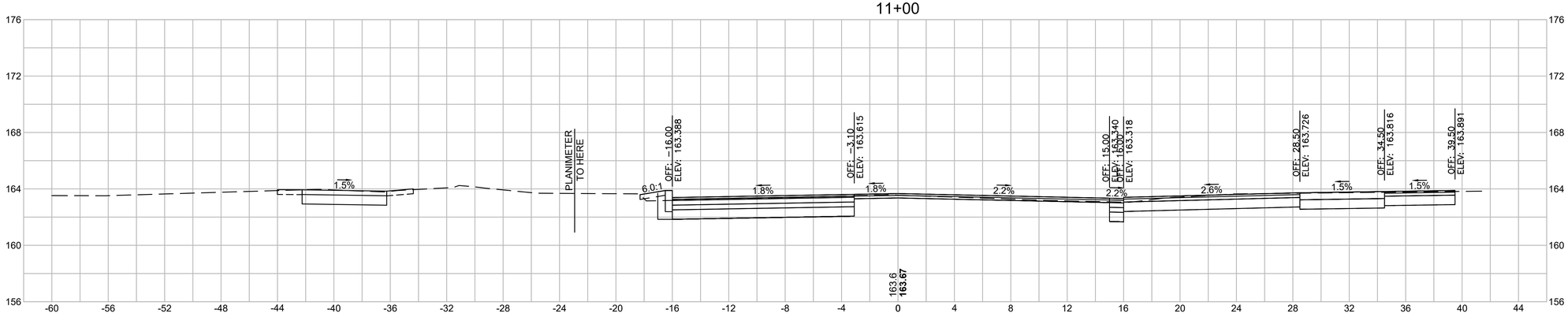
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	103	198
	PROJECT FILE NO. 608881		

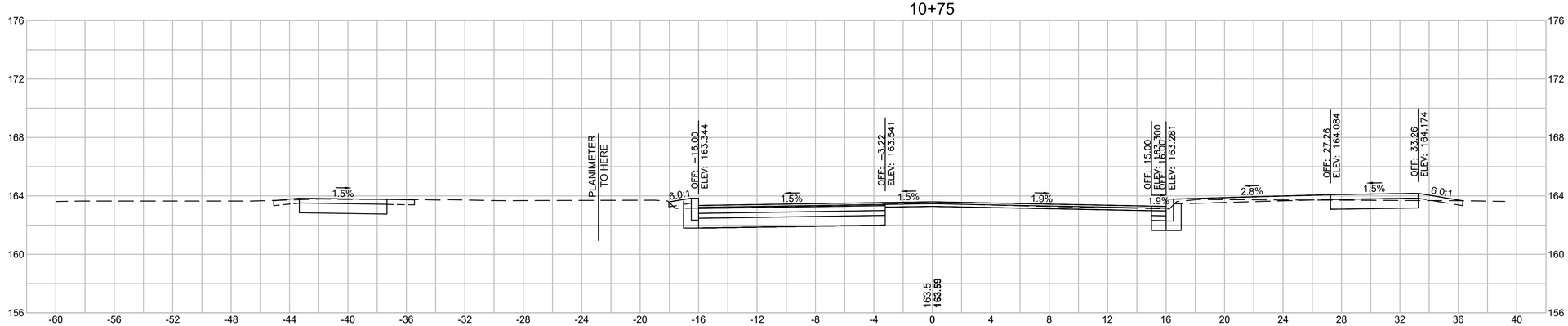
CROSS SECTIONS-LONGMEADOW STREET

11+00



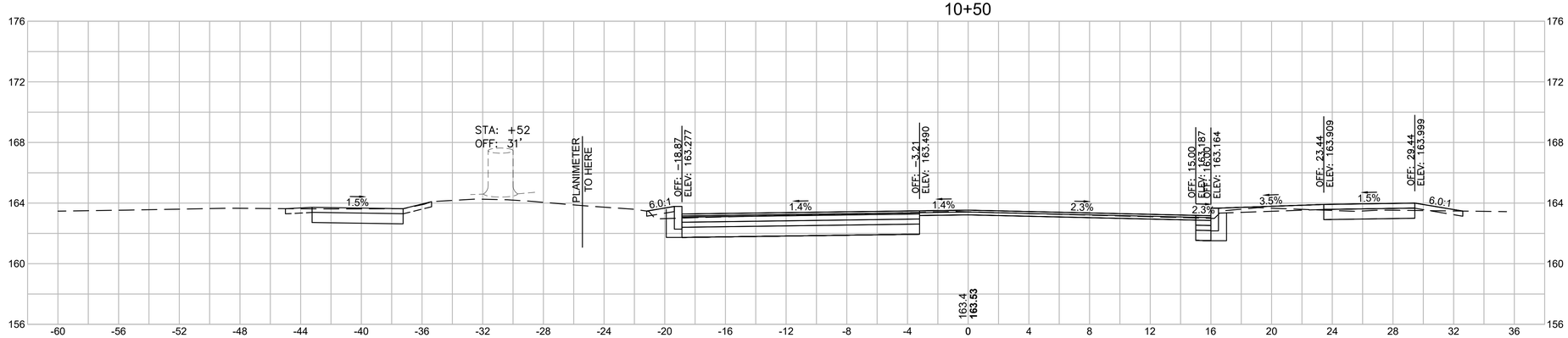
Total Volume at Station 11+00.00	
Cut Area	**46.77**
Fill Area	**0.00**
Cut Vol	**33.7**
Fill Vol	**0.0**
Cum Cut Vol	**1201.3**
Cum Fill Vol	**0.1**
Net Vol	**1201.3**

10+75



Total Volume at Station 10+75.00	
Cut Area	**26.07**
Fill Area	**0.00**
Cut Vol	**27.1**
Fill Vol	**0.0**
Cum Cut Vol	**1167.6**
Cum Fill Vol	**0.1**
Net Vol	**1167.5**

10+50



Total Volume at Station 10+50.00	
Cut Area	**32.40**
Fill Area	**0.08**
Cut Vol	**75.0**
Fill Vol	**0.0**
Cum Cut Vol	**1140.5**
Cum Fill Vol	**0.0**
Net Vol	**1140.5**

4 0 4 8
SCALE IN FEET

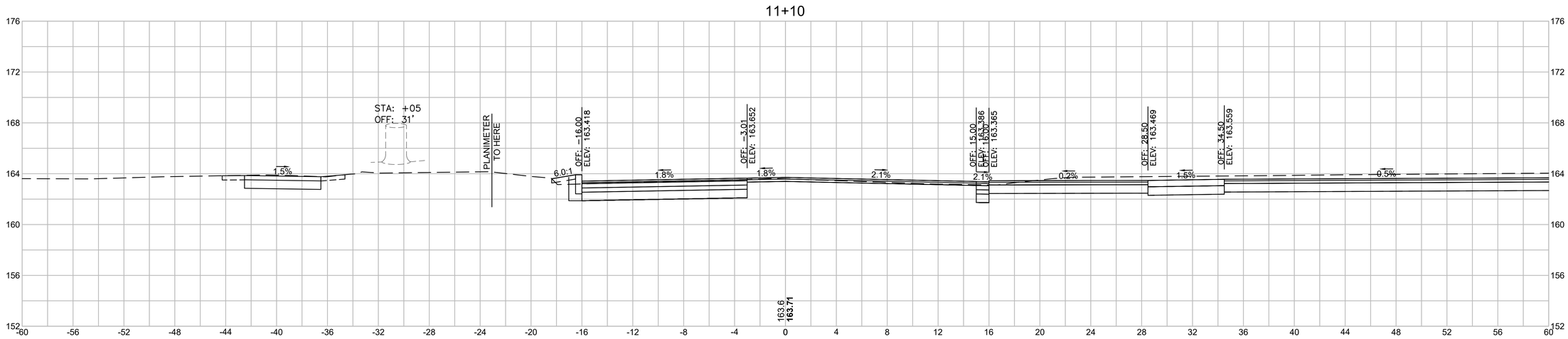
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:18 PM

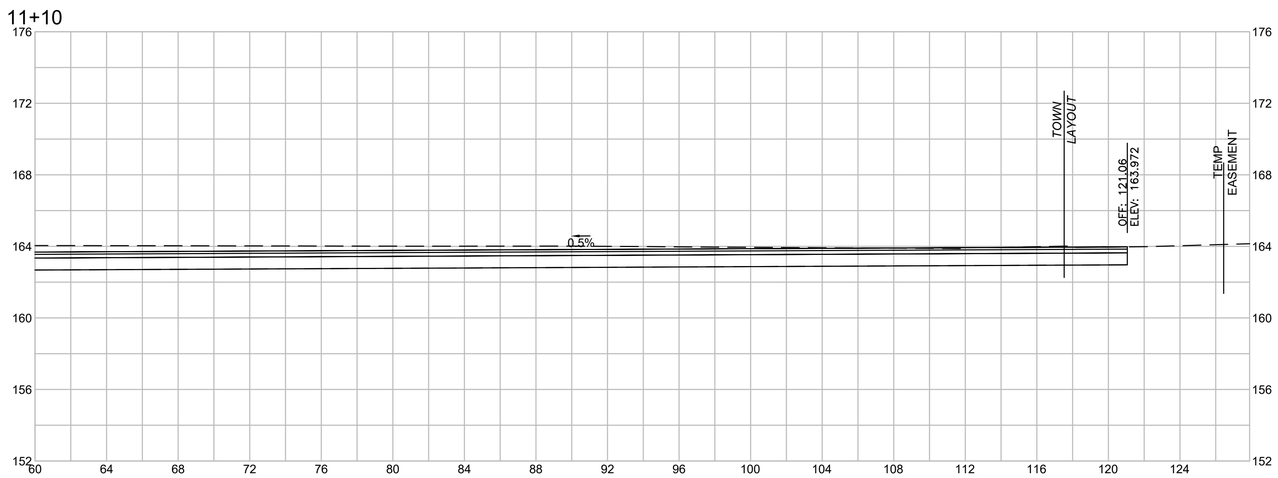
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	104	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:18 PM





Total Volume at Station 11+10.00	
Cut Area	**91.27**
Fill Area	**0.00**
Cut Vol	**25.6**
Fill Vol	**0.0**
Cum Cut Vol	**1226.9**
Cum Fill Vol	**0.1**
Net Vol	**1226.8**

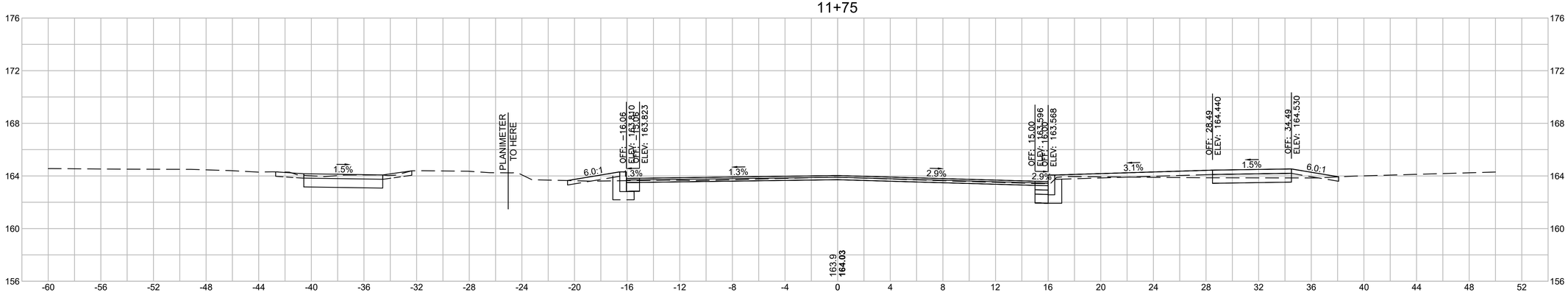
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	105	198
PROJECT FILE NO. 608881			

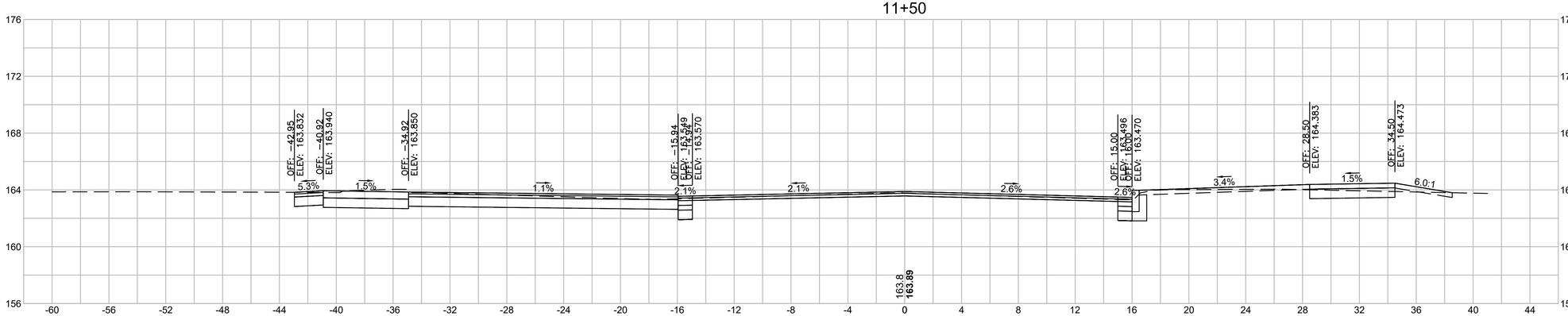
CROSS SECTIONS-LONGMEADOW STREET

11+75



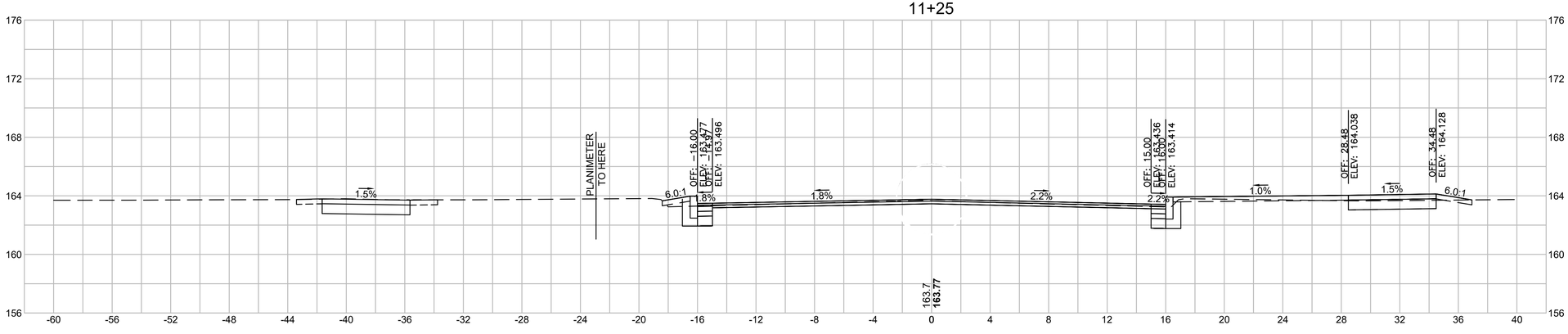
Total Volume at Station 11+75.00	
Cut Area	**16.04**
Fill Area	**0.00**
Cut Vol	**24.4**
Fill Vol	**0.0**
Cum Cut Vol	**1301.3**
Cum Fill Vol	**0.1**
Net Vol	**1301.2**

11+50



Total Volume at Station 11+50.00	
Cut Area	**36.73**
Fill Area	**0.00**
Cut Vol	**21.8**
Fill Vol	**0.0**
Cum Cut Vol	**1276.9**
Cum Fill Vol	**0.1**
Net Vol	**1276.8**

11+25



Total Volume at Station 11+25.00	
Cut Area	**10.26**
Fill Area	**0.00**
Cut Vol	**28.2**
Fill Vol	**0.0**
Cum Cut Vol	**1255.1**
Cum Fill Vol	**0.1**
Net Vol	**1255.0**

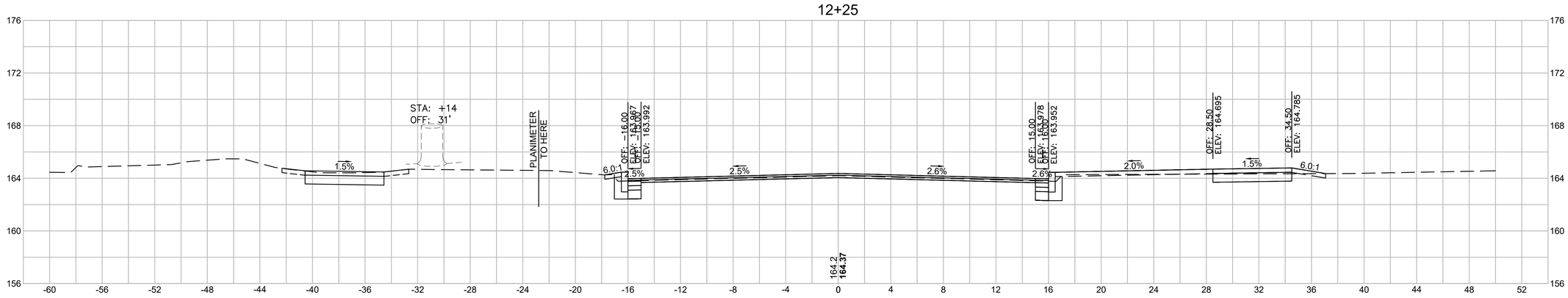
4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:18 PM

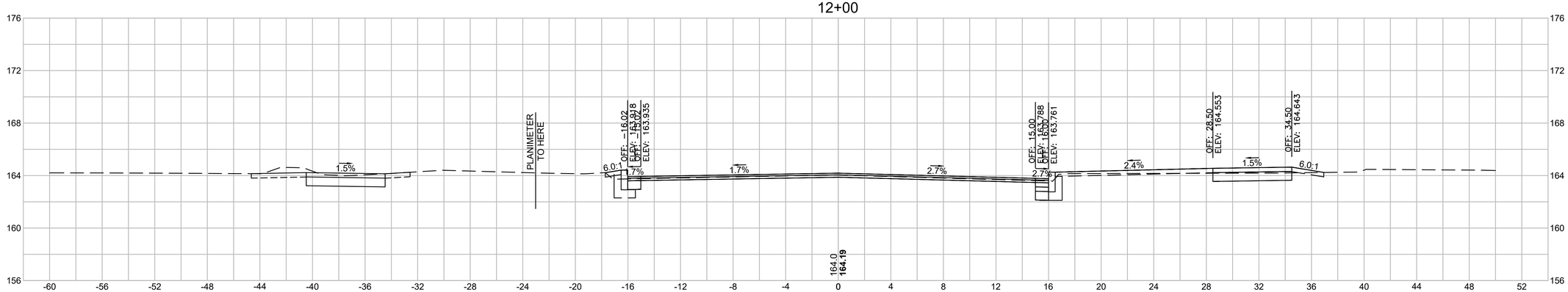
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	106	198
PROJECT FILE NO.	608881		

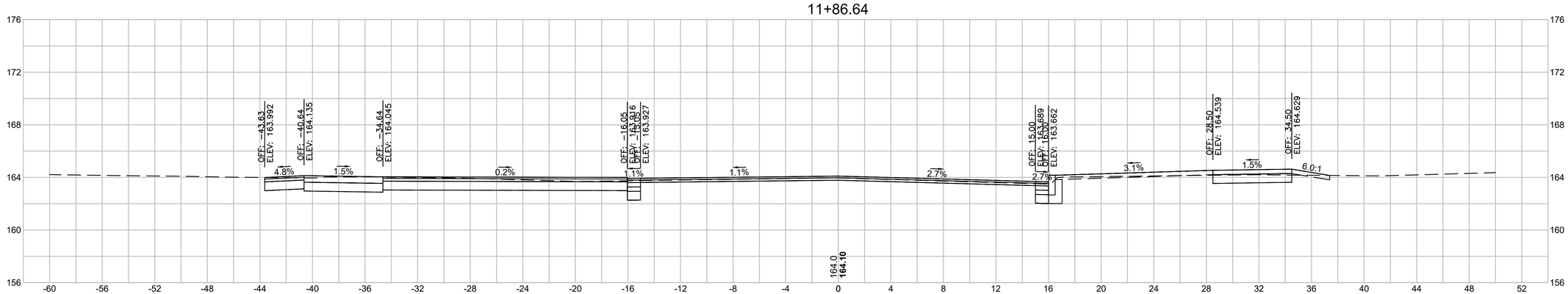
CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 12+25.00	
Cut Area	**8.35**
Fill Area	**0.00**
Cut Vol	**10.2**
Fill Vol	**0.0**
Cum Cut Vol	**1334.2**
Cum Fill Vol	**0.1**
Net Vol	**1334.1**



Total Volume at Station 12+00.00	
Cut Area	**13.74**
Fill Area	**0.00**
Cut Vol	**11.9**
Fill Vol	**0.0**
Cum Cut Vol	**1324.0**
Cum Fill Vol	**0.1**
Net Vol	**1323.9**



Total Volume at Station 11+86.64	
Cut Area	**34.19**
Fill Area	**0.00**
Cut Vol	**10.8**
Fill Vol	**0.0**
Cum Cut Vol	**1312.1**
Cum Fill Vol	**0.1**
Net Vol	**1312.1**

4 0 4 8
SCALE IN FEET

Plotted on 23-Jun-2025 5:18 PM
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

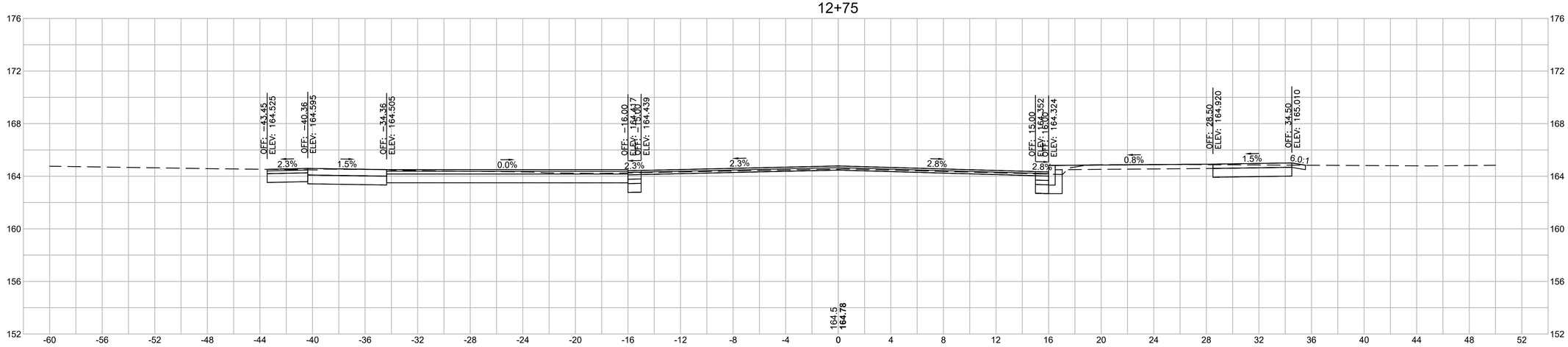
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	107	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

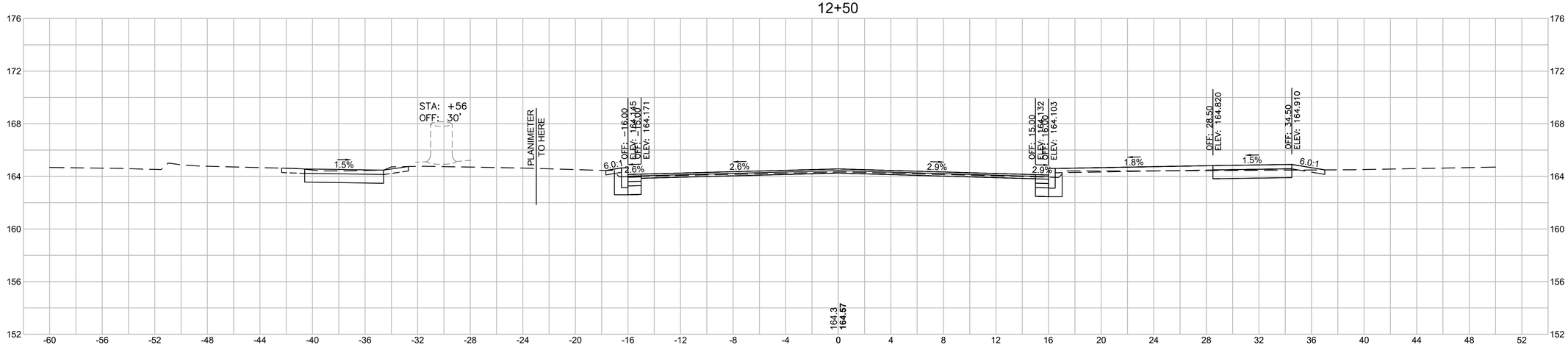
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:18 PM

12+75



Total Volume at Station 12+75.00	
Cut Area	**40.49**
Fill Area	**0.00**
Cut Vol	**22.6**
Fill Vol	**0.0**
Cum Cut Vol	**1364.4**
Cum Fill Vol	**0.1**
Net Vol	**1364.4**

12+50



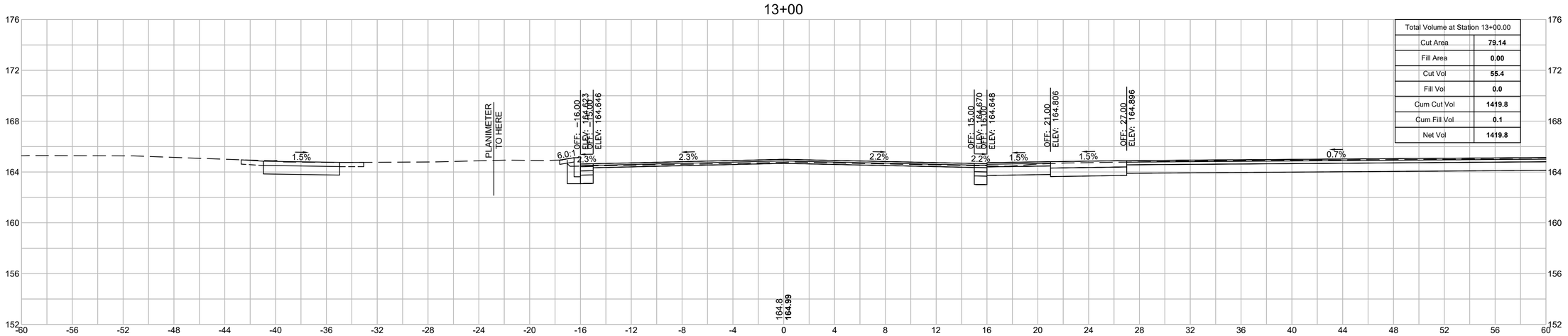
Total Volume at Station 12+50.00	
Cut Area	**8.24**
Fill Area	**0.00**
Cut Vol	**7.7**
Fill Vol	**0.0**
Cum Cut Vol	**1341.9**
Cum Fill Vol	**0.1**
Net Vol	**1341.8**

4 0 4 8
SCALE IN FEET

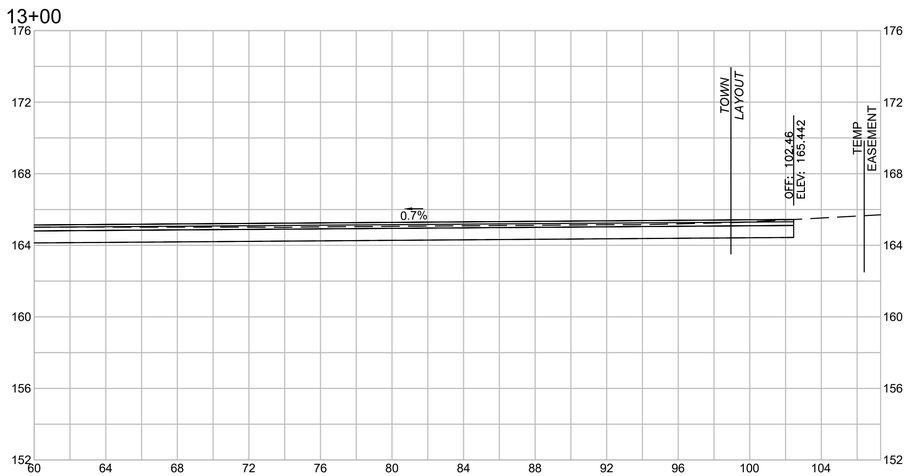
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	108	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 13+00.00	
Cut Area	79.14
Fill Area	0.00
Cut Vol	55.4
Fill Vol	0.0
Cum Cut Vol	1419.8
Cum Fill Vol	0.1
Net Vol	1419.8



4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:19 PM

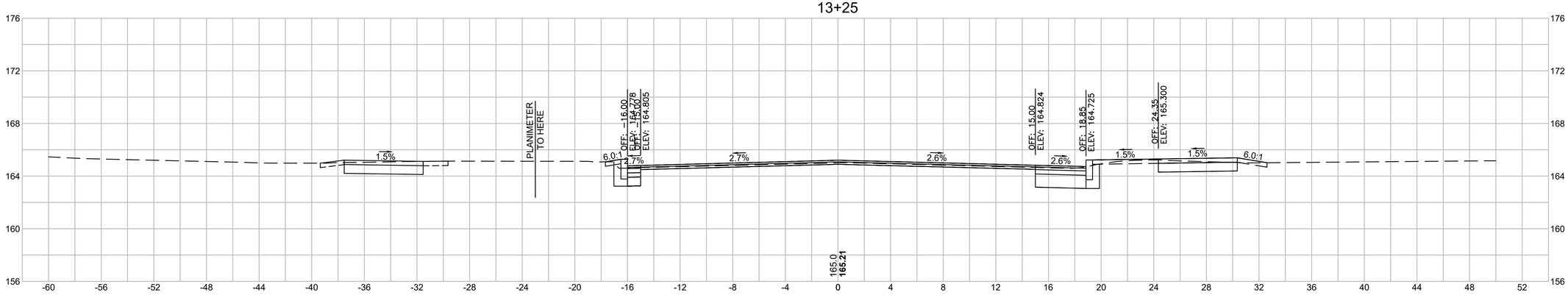
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	109	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

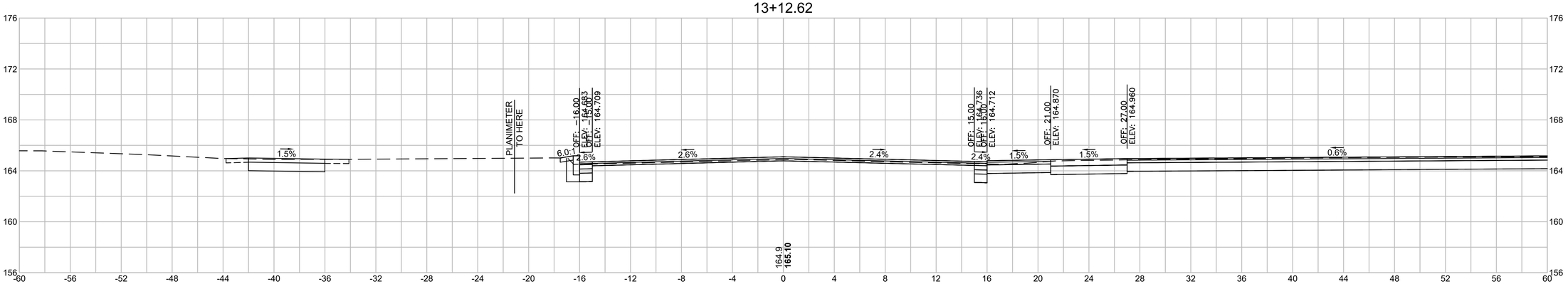
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

13+25

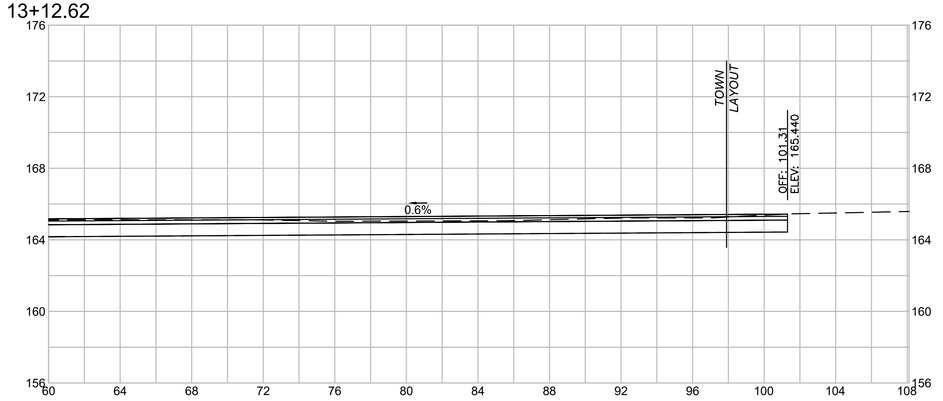


Total Volume at Station 13+25.00	
Cut Area	**22.49**
Fill Area	**0.00**
Cut Vol	**20.9**
Fill Vol	**0.0**
Cum Cut Vol	**1475.4**
Cum Fill Vol	**0.1**
Net Vol	**1475.3**

13+12.62



13+12.62



Total Volume at Station 13+12.62	
Cut Area	**68.88**
Fill Area	**0.00**
Cut Vol	**34.6**
Fill Vol	**0.0**
Cum Cut Vol	**1454.4**
Cum Fill Vol	**0.1**
Net Vol	**1454.4**

4 0 4 8
SCALE IN FEET

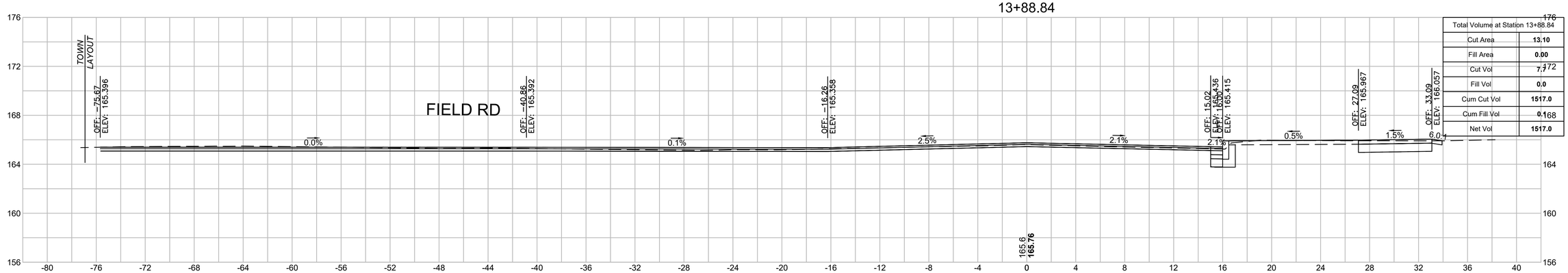
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	110	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

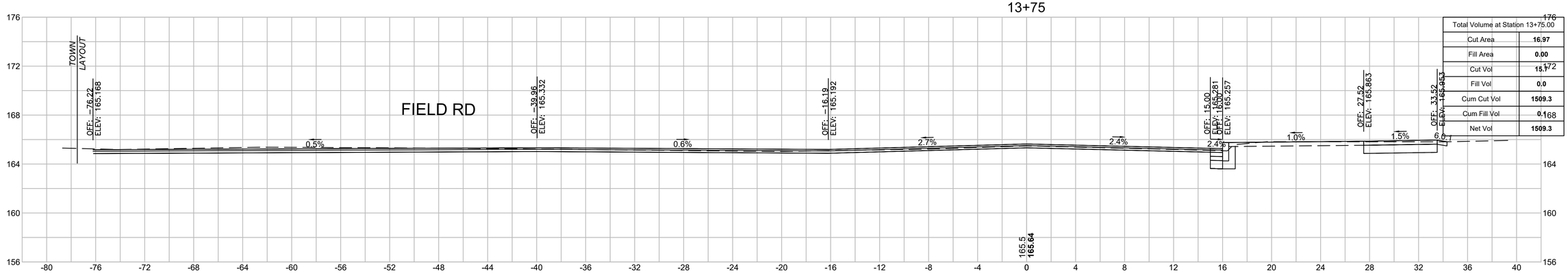
Plotted on 23-Jun-2025 5:19 PM
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

13+88.84



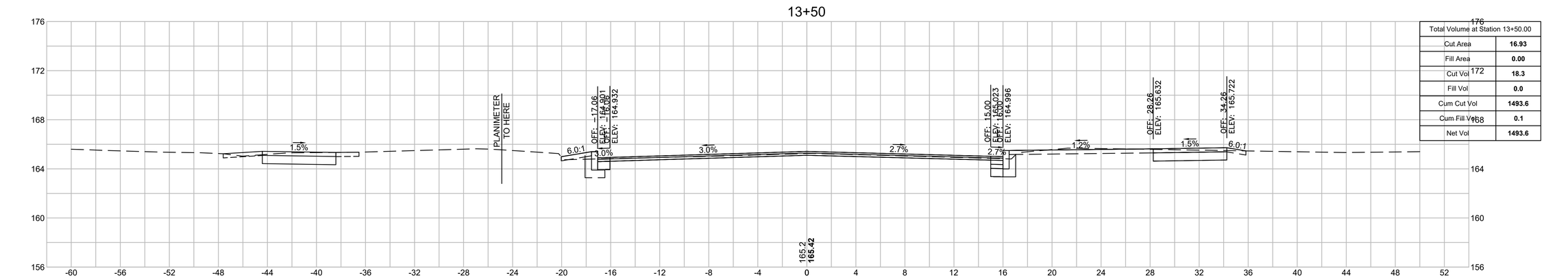
Total Volume at Station 13+88.84	
Cut Area	**13.10**
Fill Area	**0.00**
Cut Vol	**7.7**
Fill Vol	**0.0**
Cum Cut Vol	**1517.0**
Cum Fill Vol	**0.1**
Net Vol	**1517.0**

13+75



Total Volume at Station 13+75.00	
Cut Area	**16.97**
Fill Area	**0.00**
Cut Vol	**15.7**
Fill Vol	**0.0**
Cum Cut Vol	**1509.3**
Cum Fill Vol	**0.1**
Net Vol	**1509.3**

13+50



Total Volume at Station 13+50.00	
Cut Area	**16.93**
Fill Area	**0.00**
Cut Vol	**18.3**
Fill Vol	**0.0**
Cum Cut Vol	**1493.6**
Cum Fill Vol	**0.1**
Net Vol	**1493.6**

4 0 4 8
SCALE IN FEET

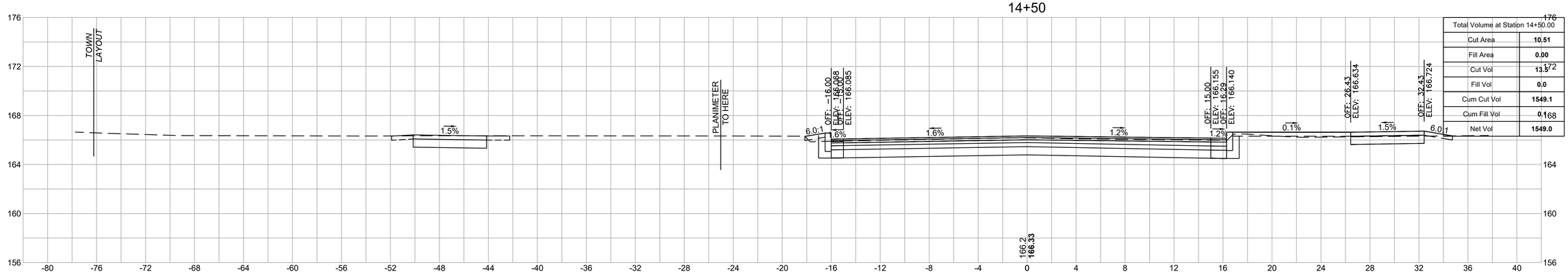
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	111	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS-LONGMEADOW STREET

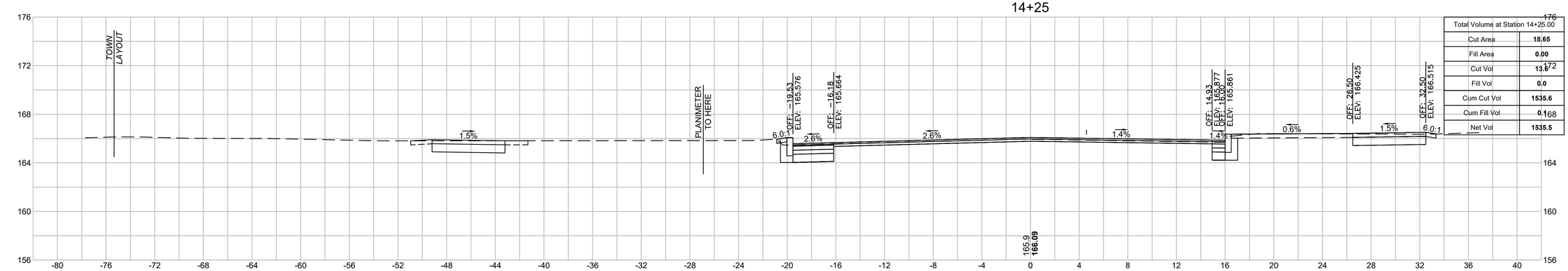
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

14+50



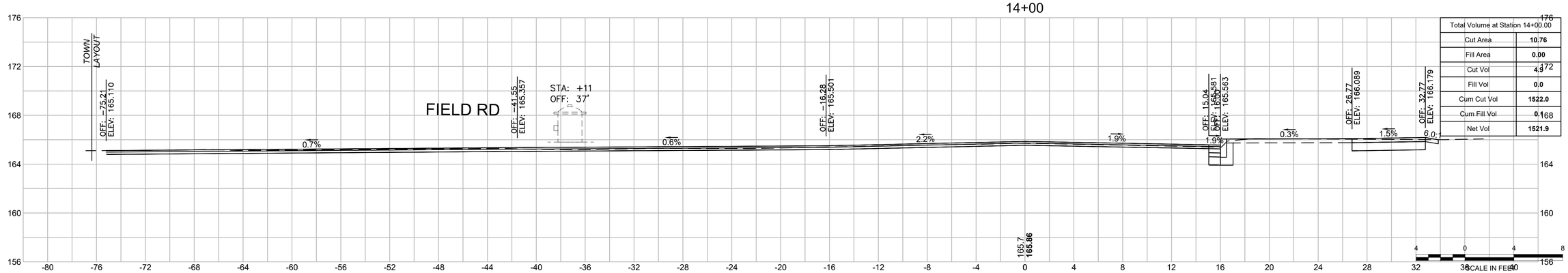
Total Volume at Station 14+50.00	
Cut Area	**10.51**
Fill Area	**0.00**
Cut Vol	**13.5**
Fill Vol	**0.0**
Cum Cut Vol	**1549.1**
Cum Fill Vol	**0.1**
Net Vol	**1549.0**

14+25



Total Volume at Station 14+25.00	
Cut Area	**18.65**
Fill Area	**0.00**
Cut Vol	**13.5**
Fill Vol	**0.0**
Cum Cut Vol	**1535.6**
Cum Fill Vol	**0.1**
Net Vol	**1535.5**

14+00



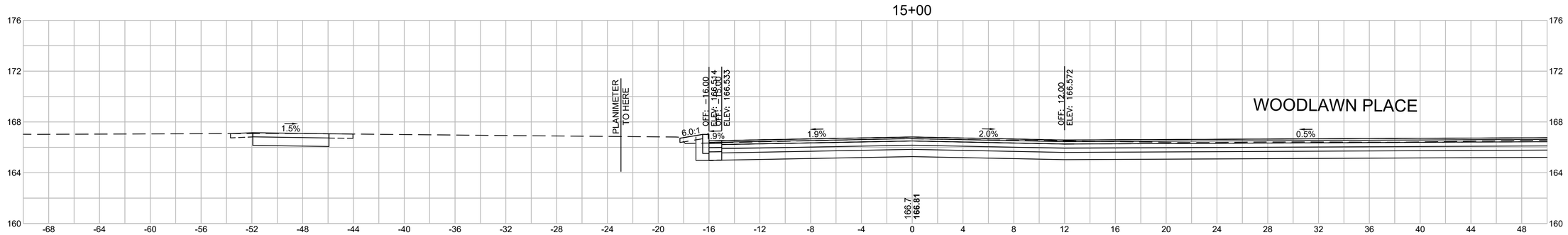
Total Volume at Station 14+00.00	
Cut Area	**10.76**
Fill Area	**0.00**
Cut Vol	**4.9**
Fill Vol	**0.0**
Cum Cut Vol	**1522.0**
Cum Fill Vol	**0.1**
Net Vol	**1521.9**

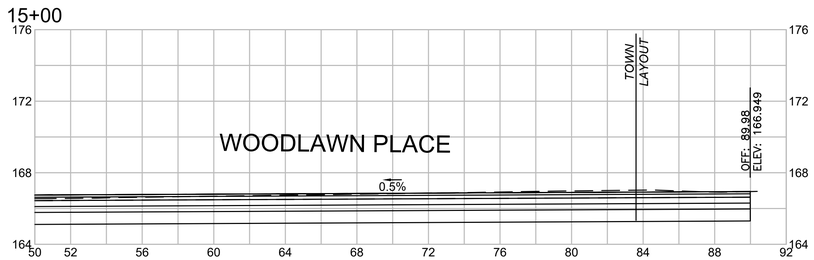
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	112	198
PROJECT FILE NO.	608881		

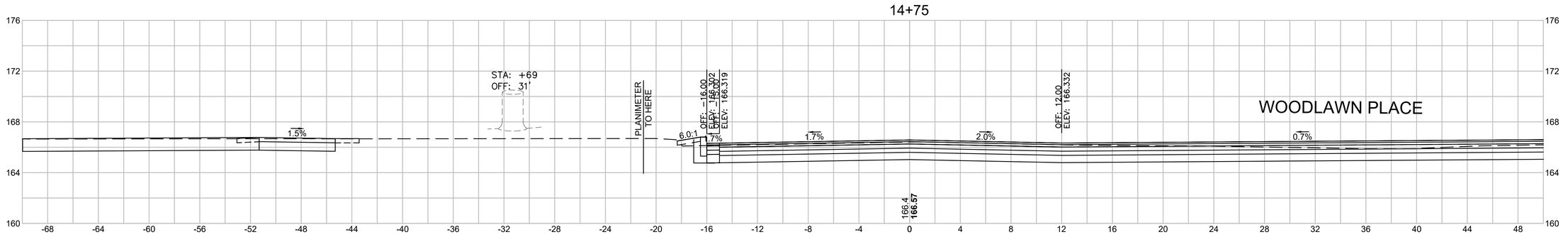
CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:19 PM





Total Volume at Station 15+00.00	
Cut Area	**74.05**
Fill Area	**0.00**
Cut Vol	**42.5**
Fill Vol	**0.0**
Cum Cut Vol	**1604.6**
Cum Fill Vol	**0.1**
Net Vol	**1604.5**





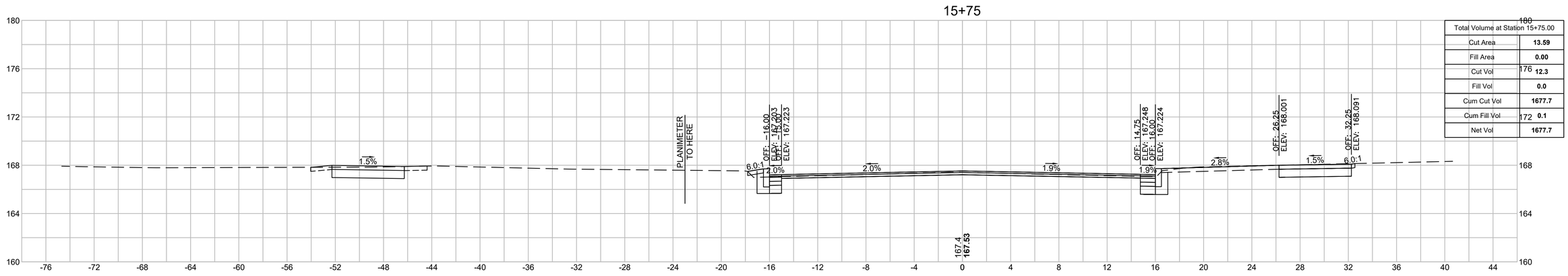
Total Volume at Station 14+75.00	
Cut Area	**17.68**
Fill Area	**0.00**
Cut Vol	**13.1**
Fill Vol	**0.0**
Cum Cut Vol	**1562.1**
Cum Fill Vol	**0.1**
Net Vol	**1562.1**

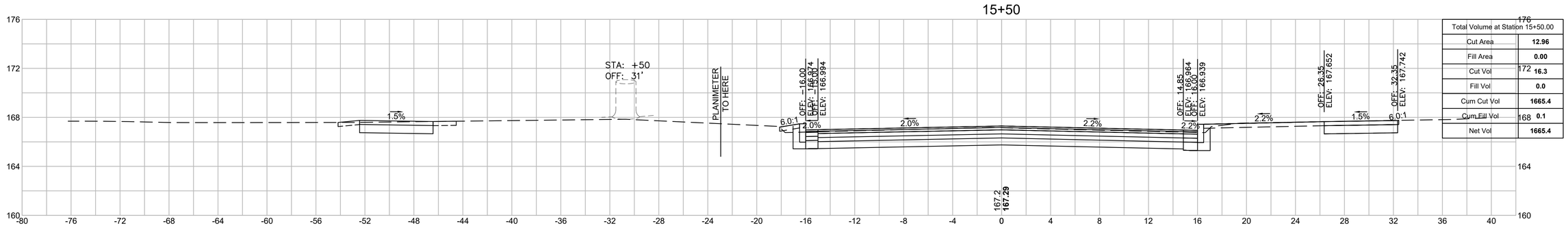
4 0 4 8
SCALE IN FEET

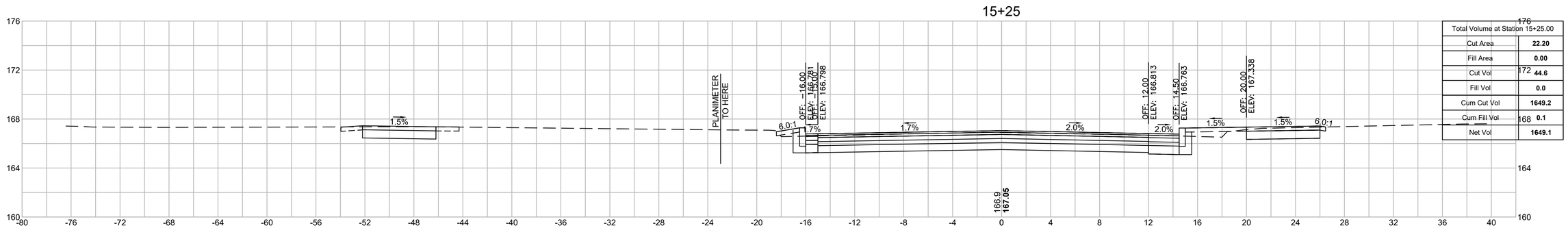
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	113	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET







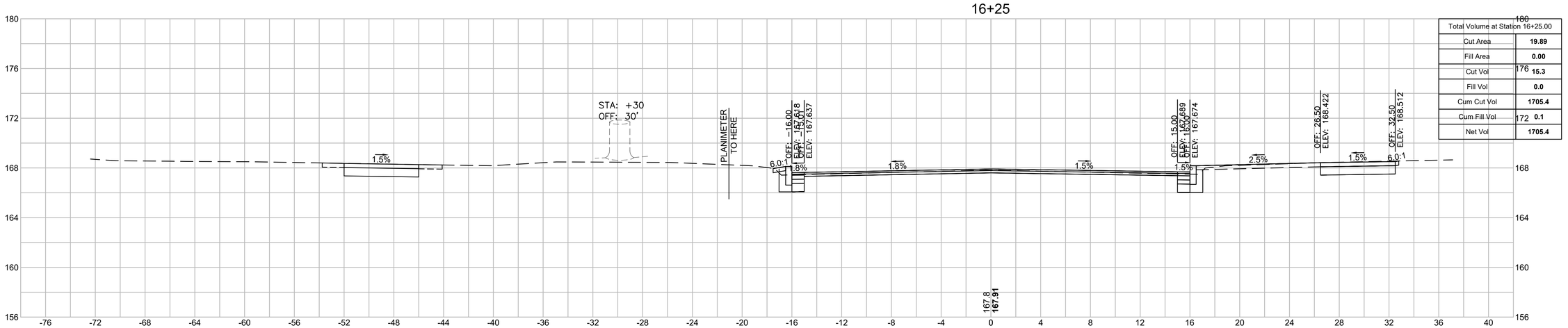
4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:19 PM

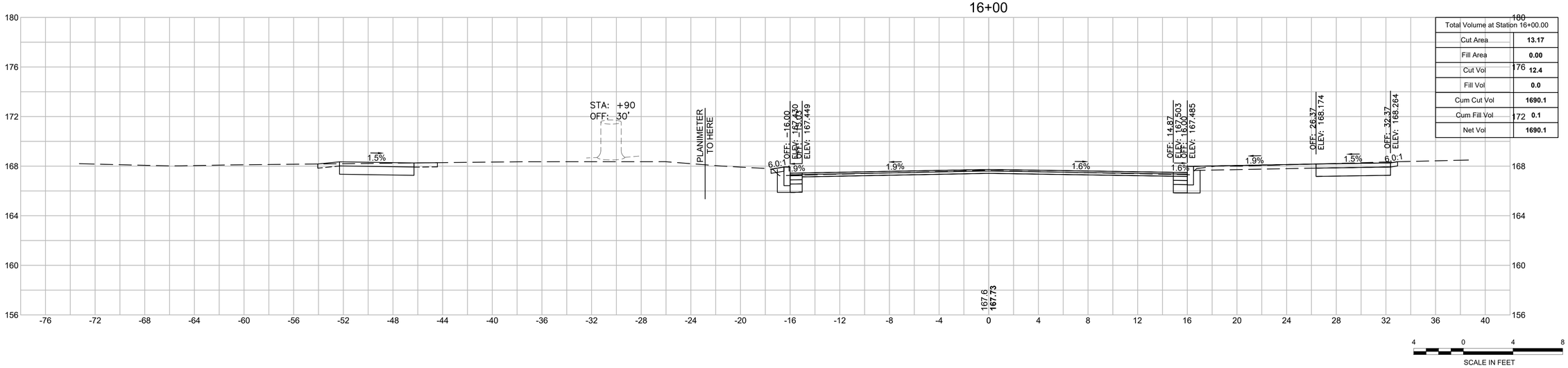
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	114	198
PROJECT FILE NO. 608881			

CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 16+25.00	
Cut Area	**19.89**
Fill Area	**0.00**
Cut Vol	**15.3**
Fill Vol	**0.0**
Cum Cut Vol	**1705.4**
Cum Fill Vol	**0.1**
Net Vol	**1705.4**



Total Volume at Station 16+00.00	
Cut Area	**13.17**
Fill Area	**0.00**
Cut Vol	**12.4**
Fill Vol	**0.0**
Cum Cut Vol	**1690.1**
Cum Fill Vol	**0.1**
Net Vol	**1690.1**

4 0 4 8
SCALE IN FEET

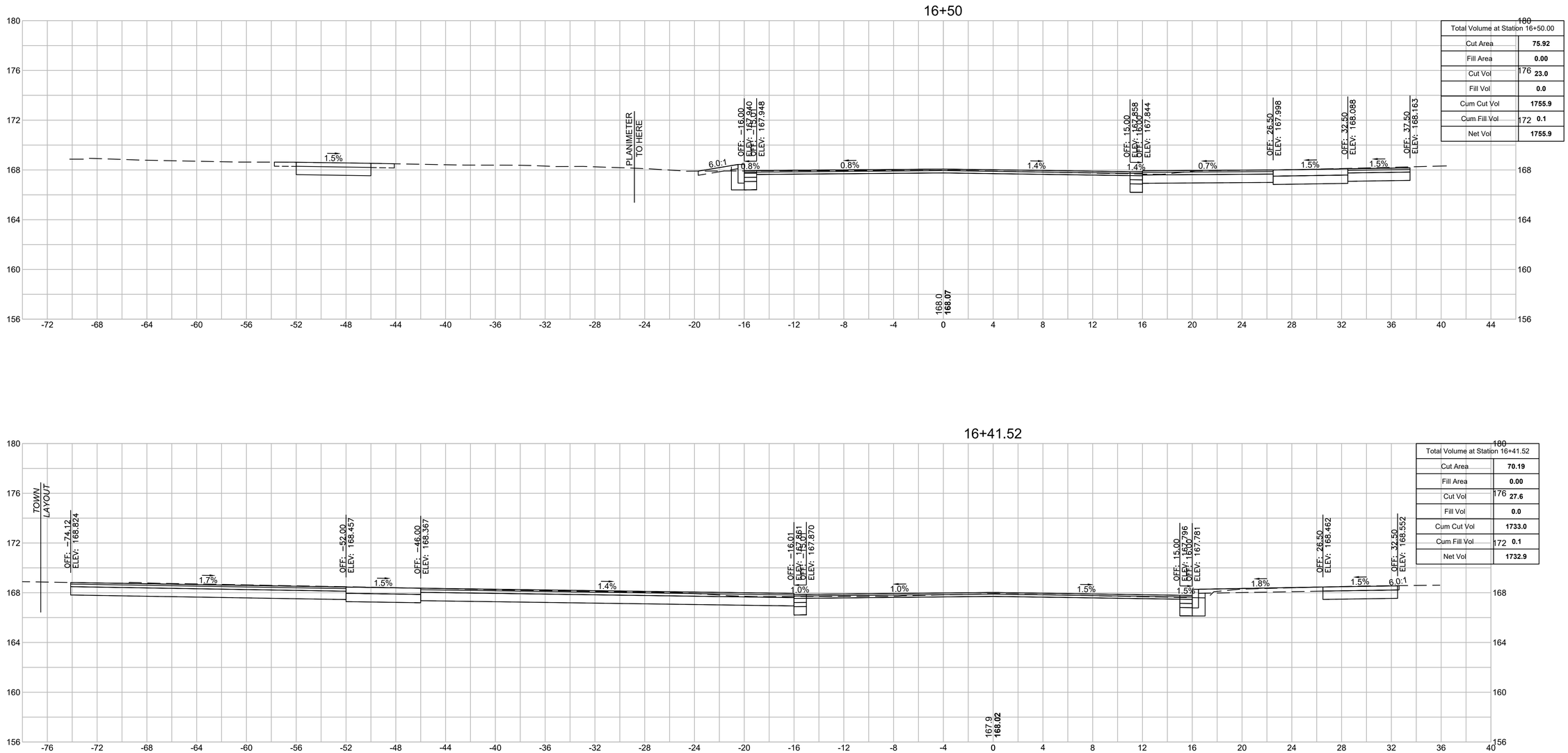
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:20 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	115	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:20 PM



Total Volume at Station 16+50.00	
Cut Area	**75.92**
Fill Area	**0.00**
Cut Vol	**23.0**
Fill Vol	**0.0**
Cum Cut Vol	**1755.9**
Cum Fill Vol	**0.1**
Net Vol	**1755.9**

Total Volume at Station 16+41.52	
Cut Area	**70.19**
Fill Area	**0.00**
Cut Vol	**27.6**
Fill Vol	**0.0**
Cum Cut Vol	**1733.0**
Cum Fill Vol	**0.1**
Net Vol	**1732.9**

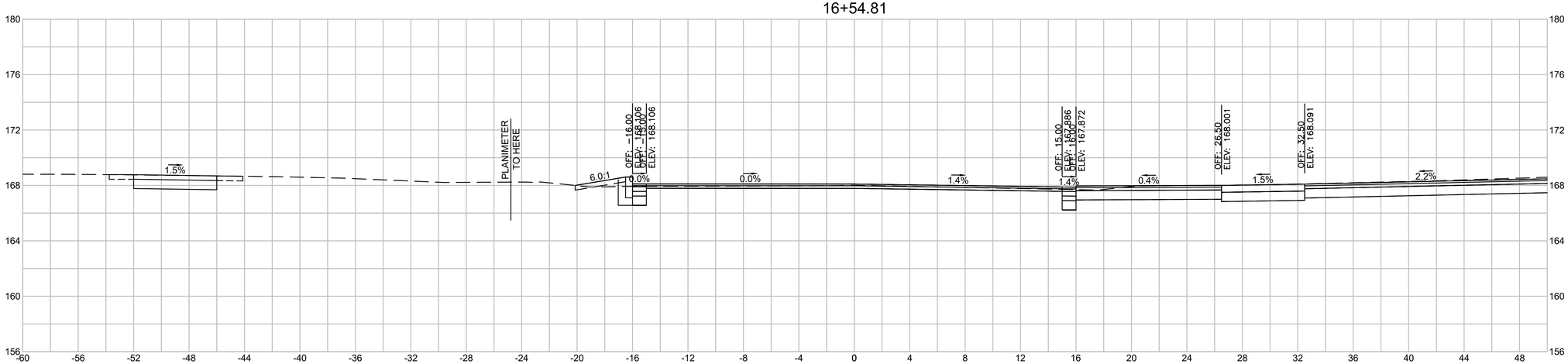
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	116	198
PROJECT FILE NO.	608881		

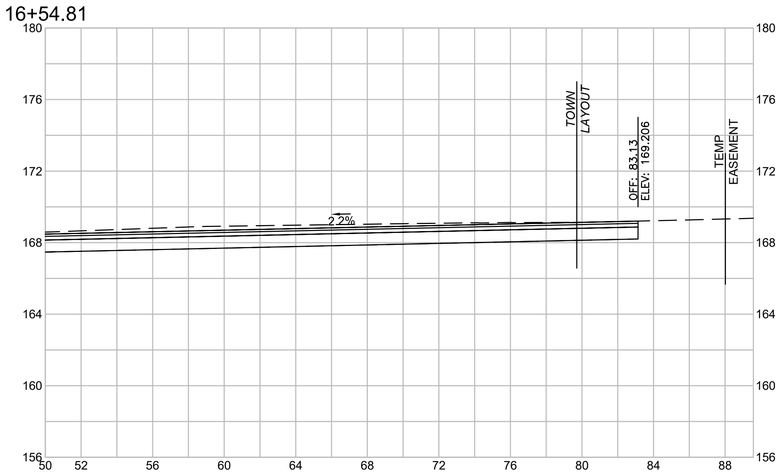
CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:20 PM

16+54.81



16+54.81



Total Volume at Station 16+54.81	
Cut Area	**126.97**
Fill Area	**0.00**
Cut Vol	**18.1**
Fill Vol	**0.0**
Cum Cut Vol	**1774.0**
Cum Fill Vol	**0.1**
Net Vol	**1773.9**



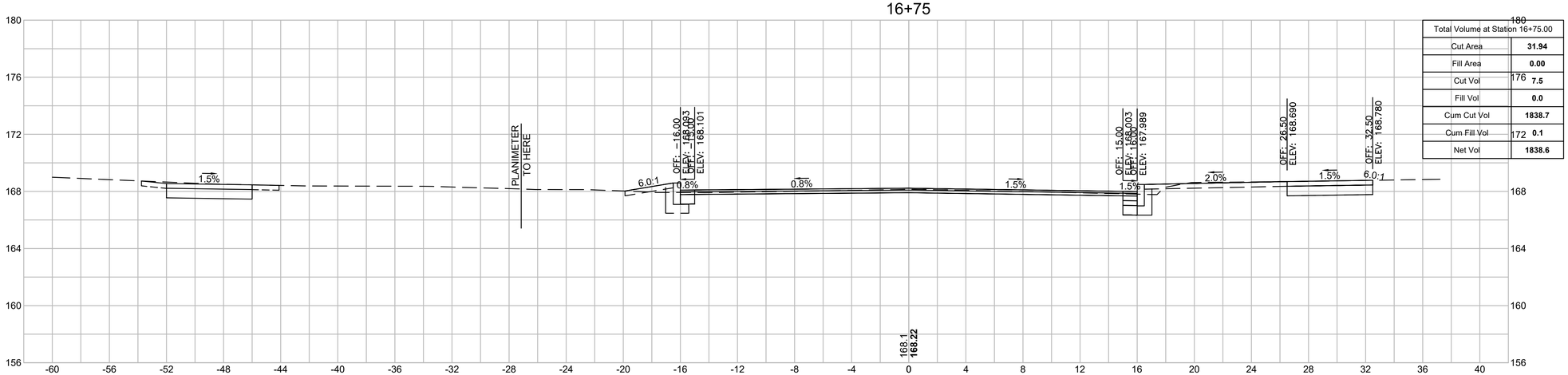
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	117	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

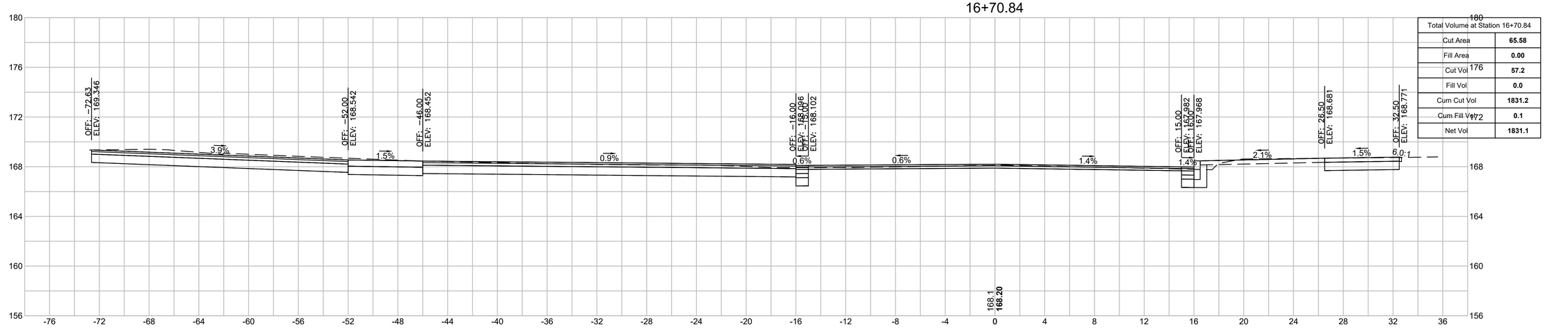
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:20 PM

16+75



Total Volume at Station 16+75.00	
Cut Area	**31.94**
Fill Area	**0.00**
Cut Vol	**7.5**
Fill Vol	**0.0**
Cum Cut Vol	**1838.7**
Cum Fill Vol	**0.1**
Net Vol	**1838.6**

16+70.84



Total Volume at Station 16+70.84	
Cut Area	**65.58**
Fill Area	**0.00**
Cut Vol	**57.2**
Fill Vol	**0.0**
Cum Cut Vol	**1831.2**
Cum Fill Vol	**0.1**
Net Vol	**1831.1**

4 0 4 8
SCALE IN FEET

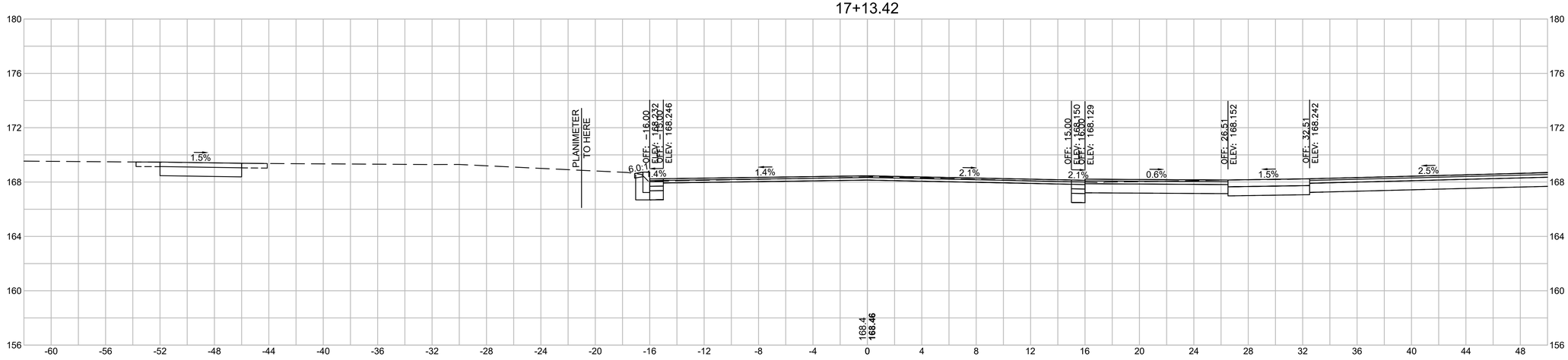
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	118	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

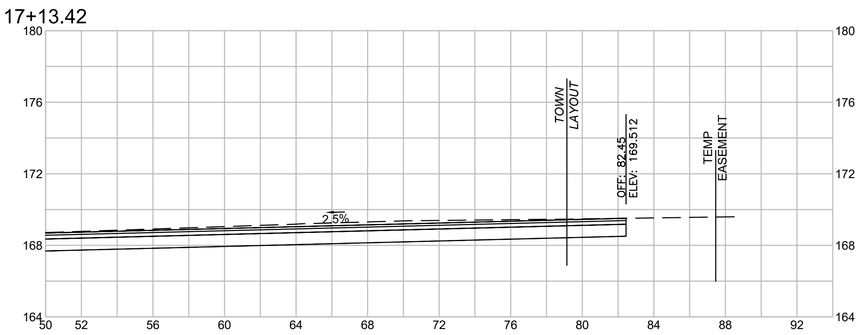
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

17+13.42

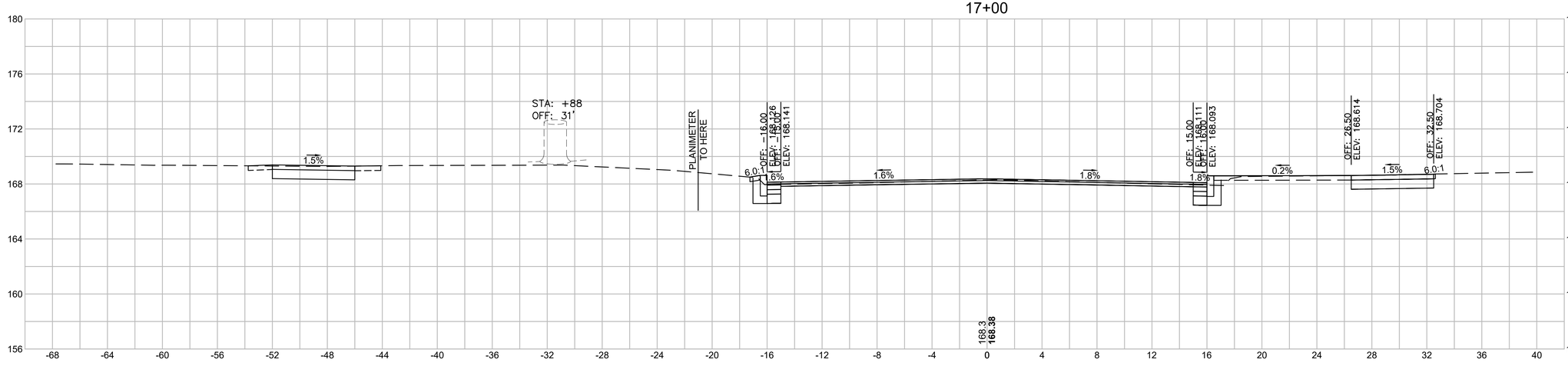


Total Volume at Station 17+13.42	
Cut Area	**83.20**
Fill Area	**0.00**
Cut Vol	**25.3**
Fill Vol	**0.0**
Cum Cut Vol	**1887.4**
Cum Fill Vol	**0.1**
Net Vol	**1887.3**

17+13.42



17+00



Total Volume at Station 17+00.00	
Cut Area	**18.61**
Fill Area	**0.00**
Cut Vol	**23.4**
Fill Vol	**0.0**
Cum Cut Vol	**1862.1**
Cum Fill Vol	**0.1**
Net Vol	**1862.0**

4 0 4 8
SCALE IN FEET

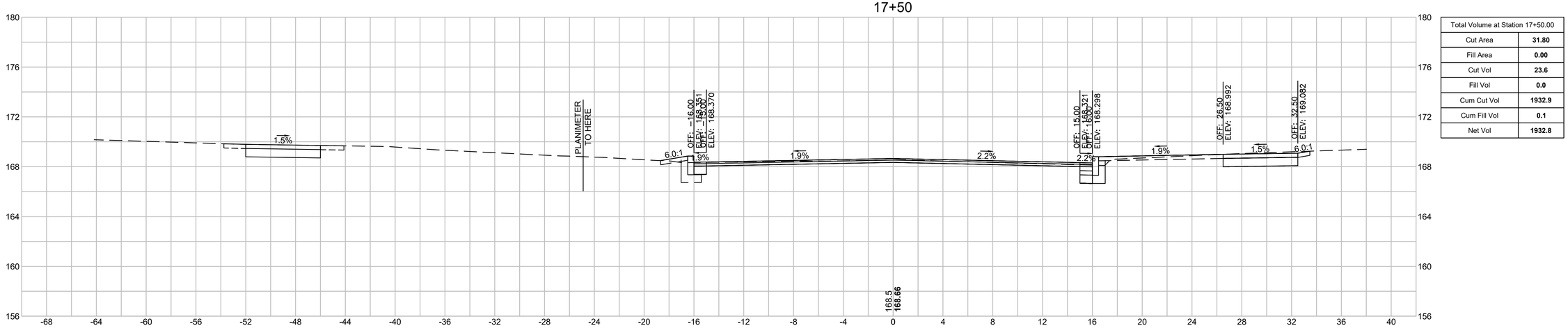
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	119	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

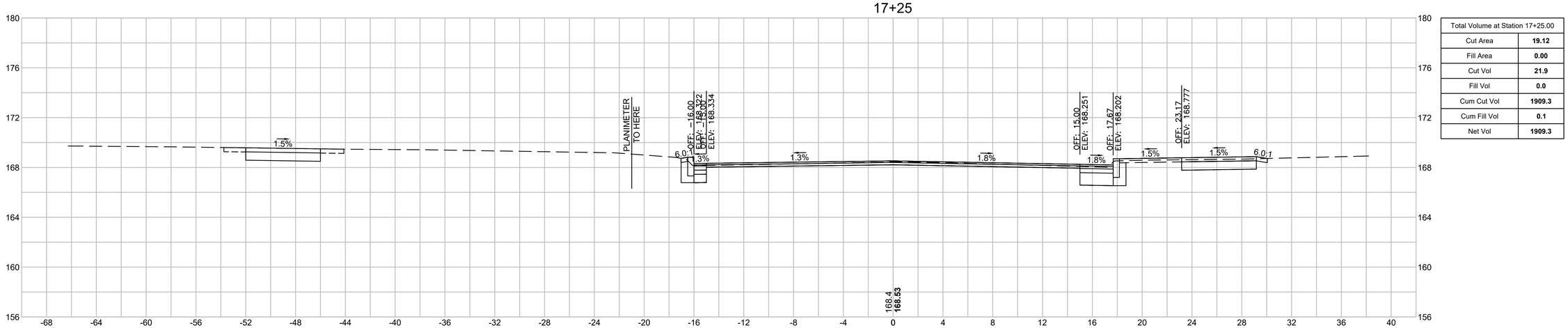
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:20 PM

17+50



Total Volume at Station 17+50.00	
Cut Area	**31.80**
Fill Area	**0.00**
Cut Vol	**23.6**
Fill Vol	**0.0**
Cum Cut Vol	**1932.9**
Cum Fill Vol	**0.1**
Net Vol	**1932.8**

17+25



Total Volume at Station 17+25.00	
Cut Area	**19.12**
Fill Area	**0.00**
Cut Vol	**21.9**
Fill Vol	**0.0**
Cum Cut Vol	**1909.3**
Cum Fill Vol	**0.1**
Net Vol	**1909.3**

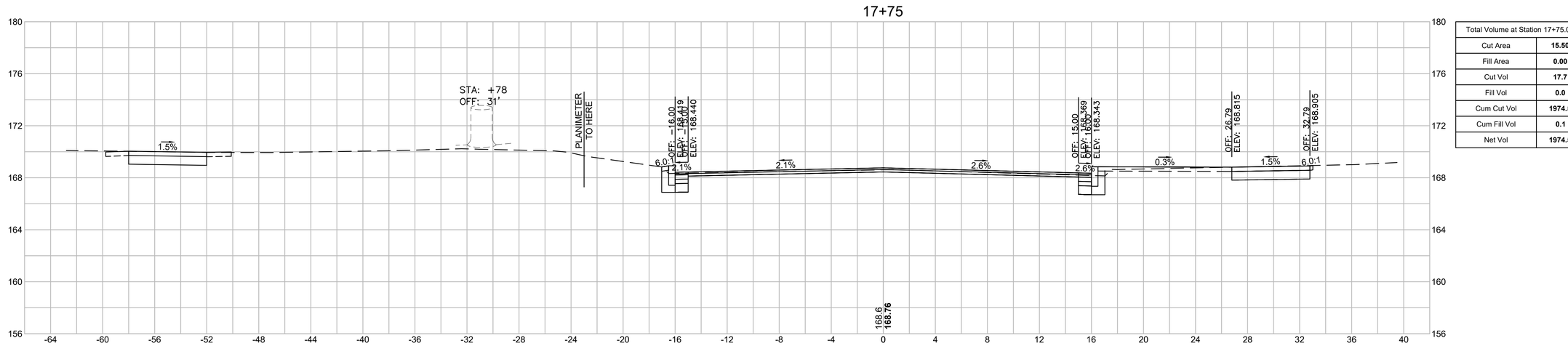
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

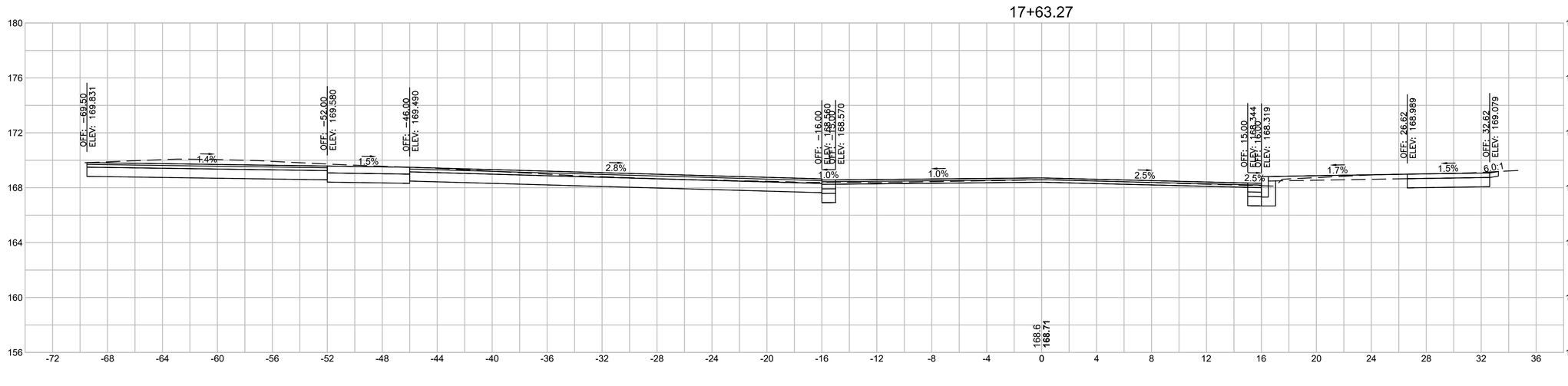
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	120	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:20 PM



Total Volume at Station 17+75.00	
Cut Area	**15.50**
Fill Area	**0.00**
Cut Vol	**17.7**
Fill Vol	**0.0**
Cum Cut Vol	**1974.5**
Cum Fill Vol	**0.1**
Net Vol	**1974.5**



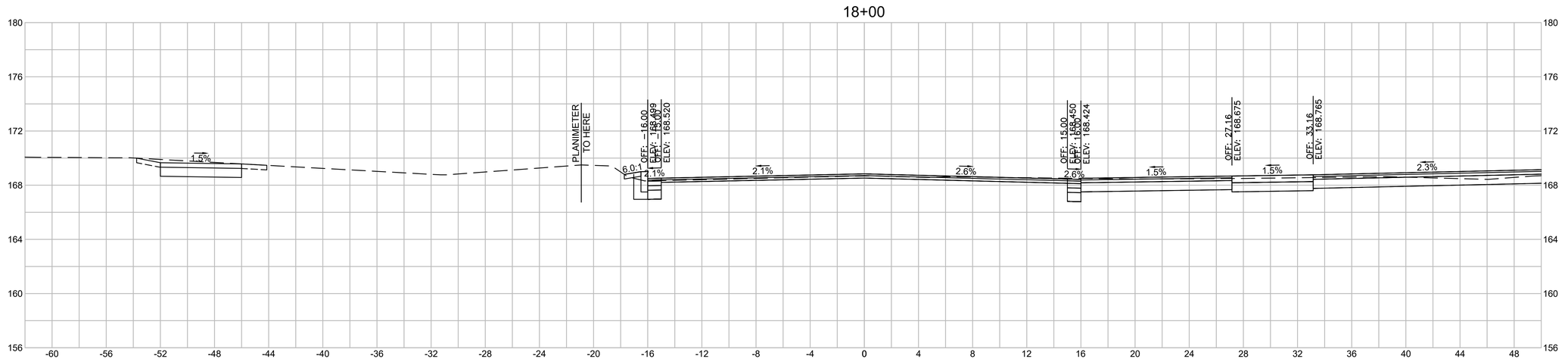
Total Volume at Station 17+63.27	
Cut Area	**65.81**
Fill Area	**0.00**
Cut Vol	**24.0**
Fill Vol	**0.0**
Cum Cut Vol	**1956.9**
Cum Fill Vol	**0.1**
Net Vol	**1956.8**

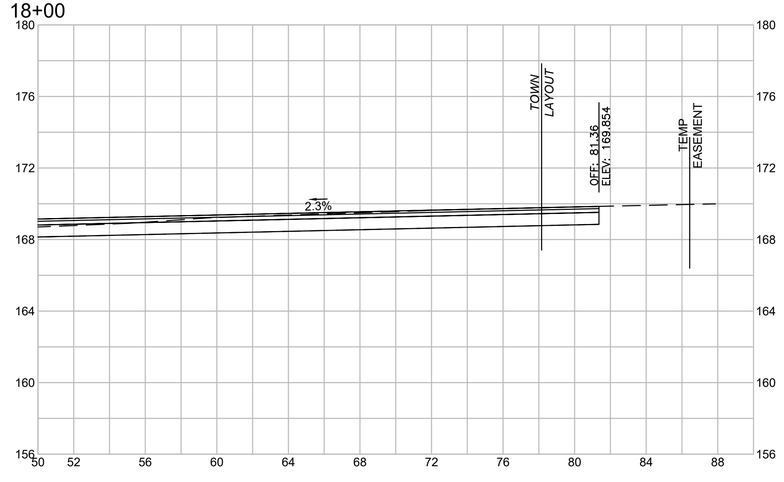
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	121	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:21 PM





Total Volume at Station 18+00.00	
Cut Area	**65.47**
Fill Area	**0.00**
Cut Vol	**37.5**
Fill Vol	**0.0**
Cum Cut Vol	**2012.0**
Cum Fill Vol	**0.1**
Net Vol	**2012.0**

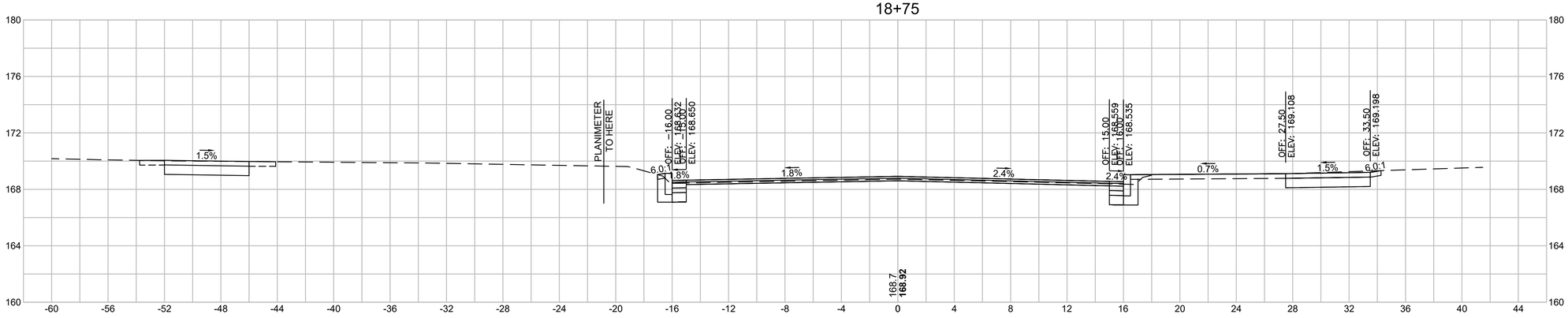
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	122	198
PROJECT FILE NO.	608881		

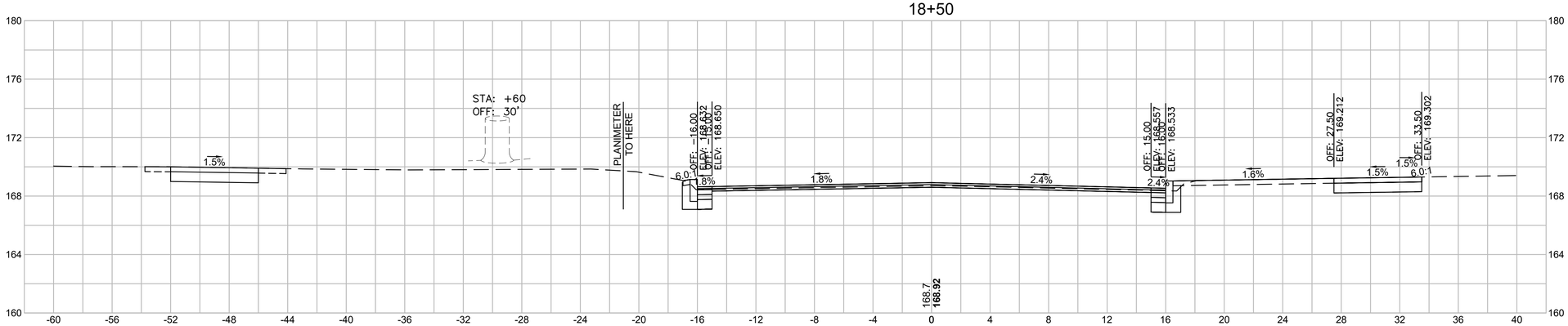
CROSS SECTIONS-LONGMEADOW STREET

18+75



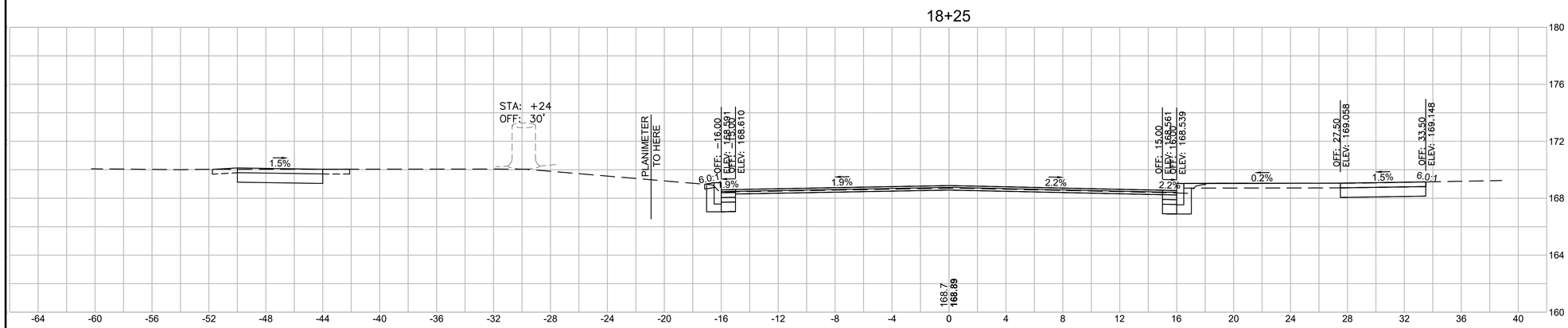
Total Volume at Station 18+75.00	
Cut Area	**13.68**
Fill Area	**0.00**
Cut Vol	**12.4**
Fill Vol	**0.0**
Cum Cut Vol	**2075.9**
Cum Fill Vol	**0.1**
Net Vol	**2075.9**

18+50



Total Volume at Station 18+50.00	
Cut Area	**13.19**
Fill Area	**0.00**
Cut Vol	**13.6**
Fill Vol	**0.0**
Cum Cut Vol	**2063.5**
Cum Fill Vol	**0.1**
Net Vol	**2063.4**

18+25



Total Volume at Station 18+25.00	
Cut Area	**16.22**
Fill Area	**0.00**
Cut Vol	**37.8**
Fill Vol	**0.0**
Cum Cut Vol	**2049.9**
Cum Fill Vol	**0.1**
Net Vol	**2049.8**

4 0 4 8
SCALE IN FEET

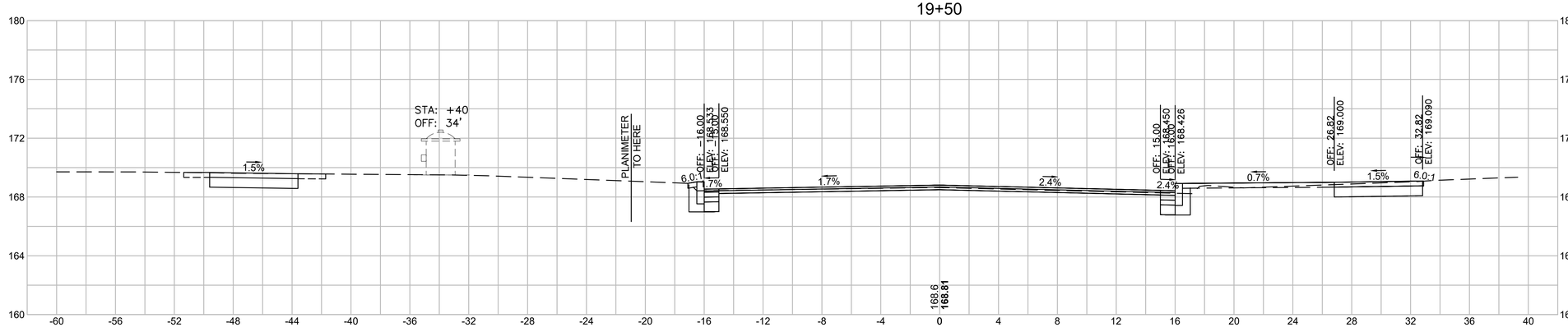
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:21 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	123	198
PROJECT FILE NO.	608881		

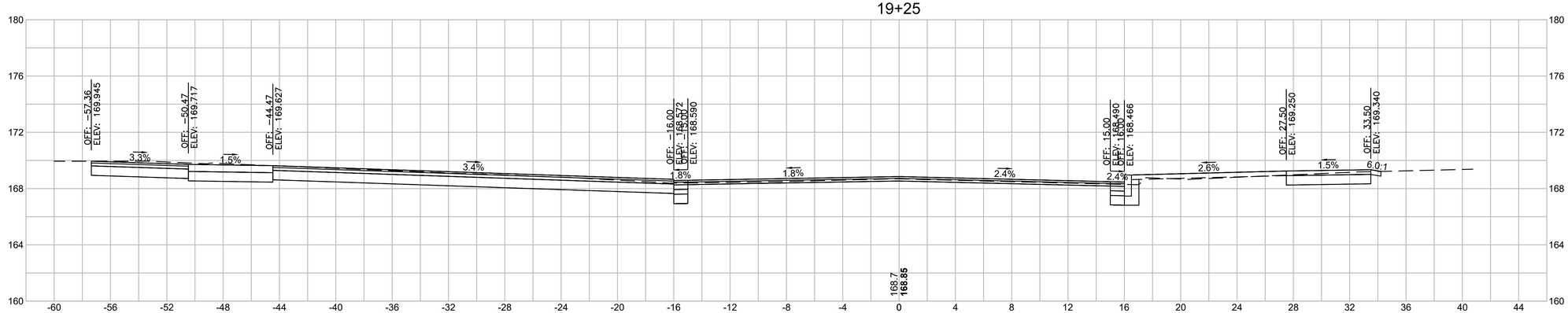
CROSS SECTIONS-LONGMEADOW STREET

19+50



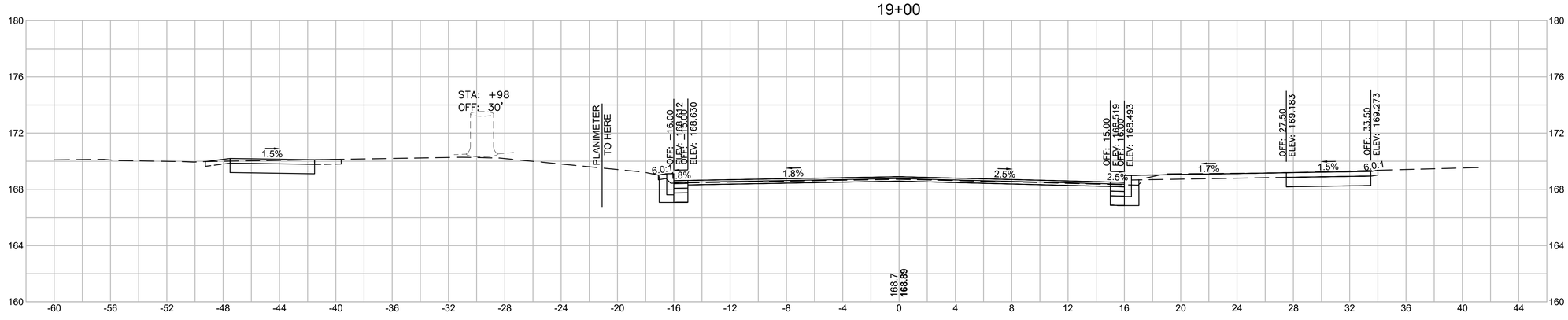
Total Volume at Station 19+50.00	
Cut Area	**15.83**
Fill Area	**0.00**
Cut Vol	**30.2**
Fill Vol	**0.0**
Cum Cut Vol	**2148.0**
Cum Fill Vol	**0.1**
Net Vol	**2147.9**

19+25



Total Volume at Station 19+25.00	
Cut Area	**49.42**
Fill Area	**0.00**
Cut Vol	**29.2**
Fill Vol	**0.0**
Cum Cut Vol	**2117.8**
Cum Fill Vol	**0.1**
Net Vol	**2117.7**

19+00



Total Volume at Station 19+00.00	
Cut Area	**13.65**
Fill Area	**0.00**
Cut Vol	**12.7**
Fill Vol	**0.0**
Cum Cut Vol	**2088.6**
Cum Fill Vol	**0.1**
Net Vol	**2088.5**

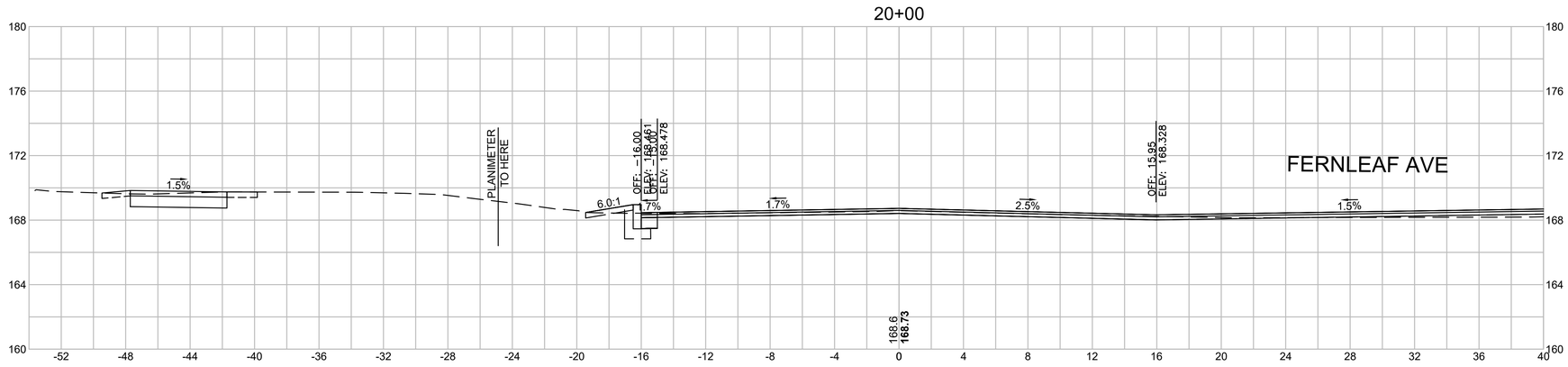
4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:21 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

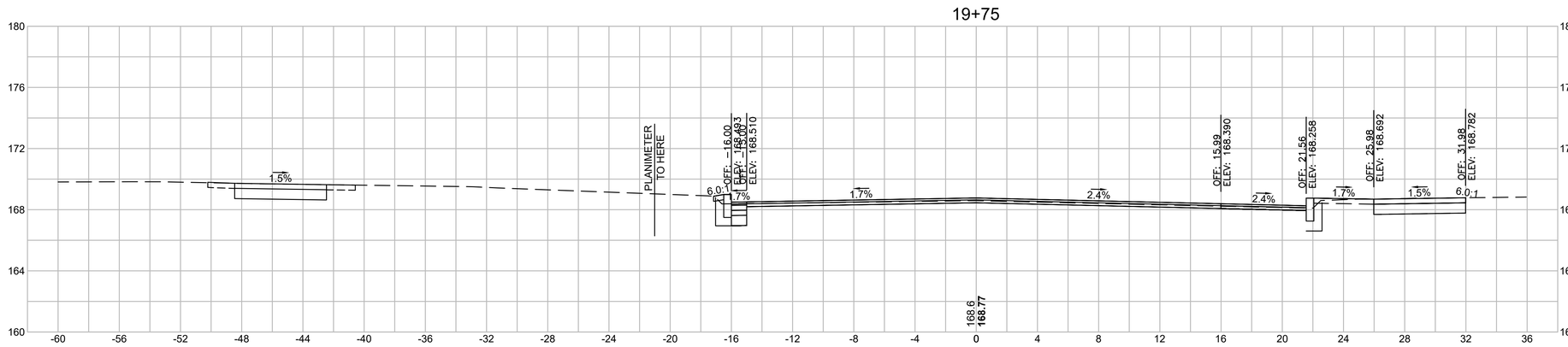
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	124	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 20+00.00	
Cut Area	**15.83**
Fill Area	**0.00**
Cut Vol	**17.3**
Fill Vol	**0.0**
Cum Cut Vol	**2182.5**
Cum Fill Vol	**0.1**
Net Vol	**2182.4**





Total Volume at Station 19+75.00	
Cut Area	**21.46**
Fill Area	**0.00**
Cut Vol	**17.3**
Fill Vol	**0.0**
Cum Cut Vol	**2165.2**
Cum Fill Vol	**0.1**
Net Vol	**2165.2**

4 0 4 8
SCALE IN FEET

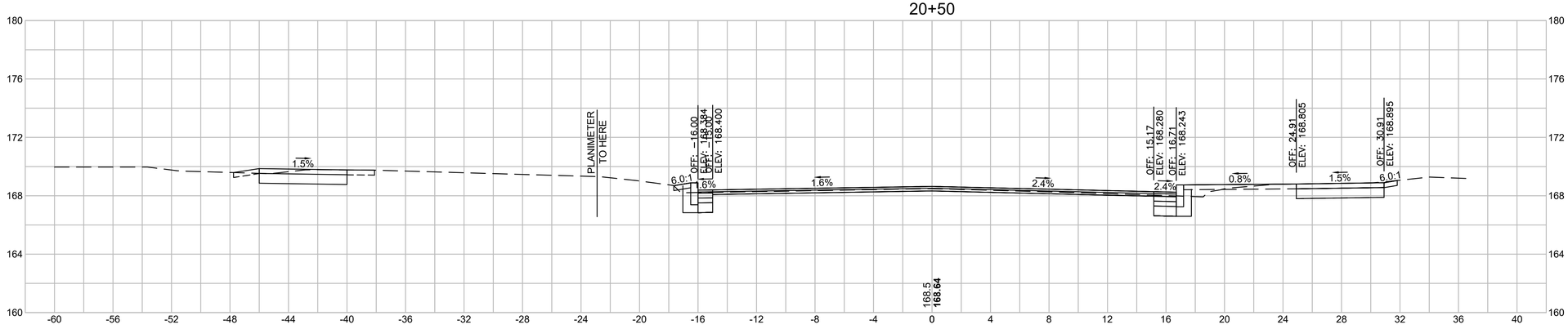
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:21 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	125	198
PROJECT FILE NO.	608881		

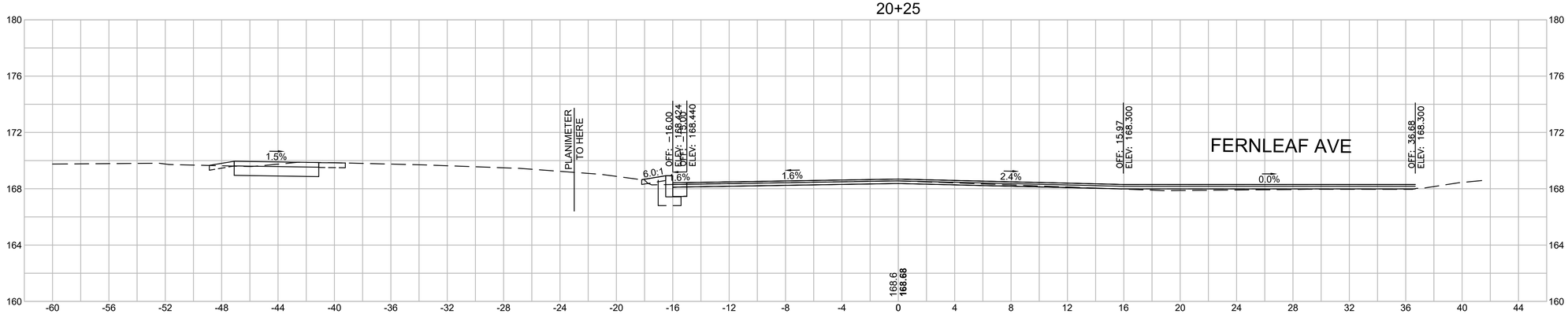
CROSS SECTIONS-LONGMEADOW STREET

20+50



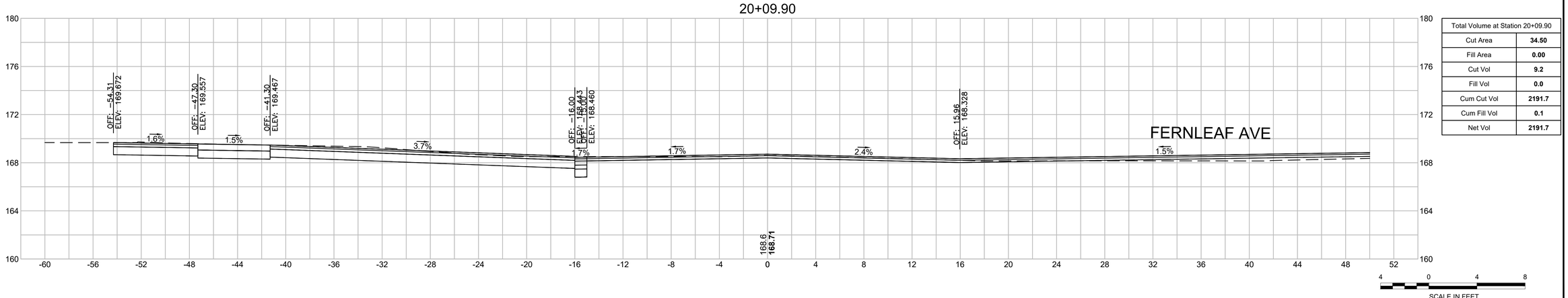
Total Volume at Station 20+50.00	
Cut Area	**29.13**
Fill Area	**0.00**
Cut Vol	**37.3**
Fill Vol	**0.0**
Cum Cut Vol	**2253.1**
Cum Fill Vol	**0.1**
Net Vol	**2253.1**

20+25



Total Volume at Station 20+25.00	
Cut Area	**51.52**
Fill Area	**0.01**
Cut Vol	**24.0**
Fill Vol	**0.0**
Cum Cut Vol	**2215.8**
Cum Fill Vol	**0.1**
Net Vol	**2215.7**

20+09.90



Total Volume at Station 20+09.90	
Cut Area	**34.50**
Fill Area	**0.00**
Cut Vol	**9.2**
Fill Vol	**0.0**
Cum Cut Vol	**2191.7**
Cum Fill Vol	**0.1**
Net Vol	**2191.7**

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:21 PM

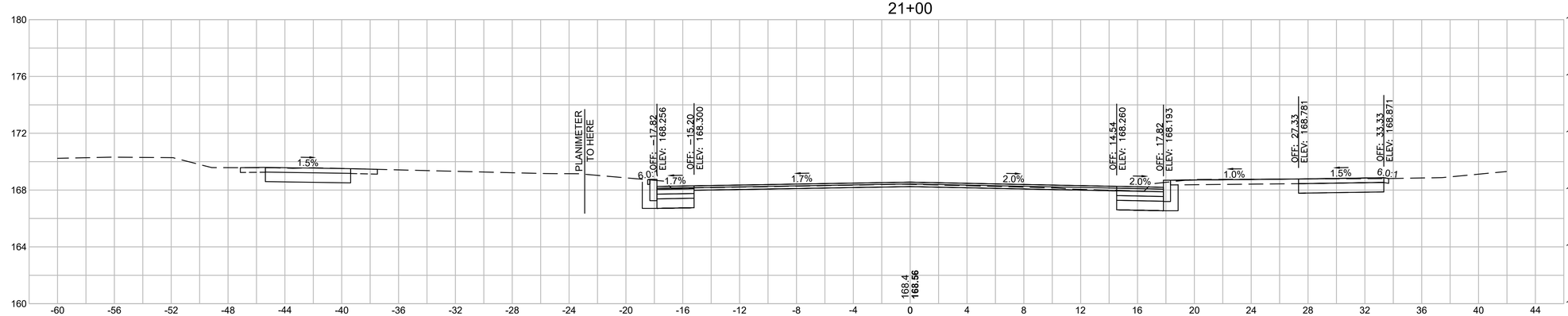
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	126	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

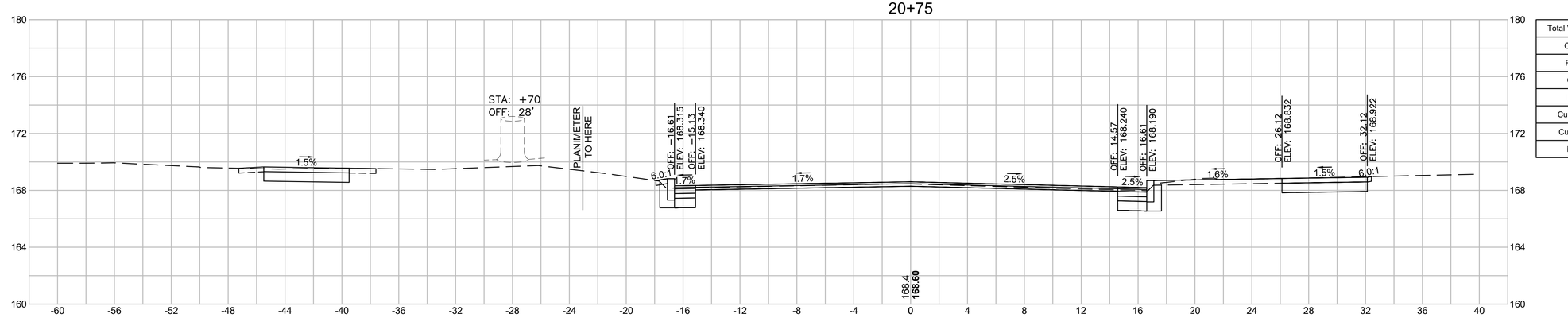
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:21 PM

21+00



Total Volume at Station 21+00.00	
Cut Area	**26.19**
Fill Area	**0.00**
Cut Vol	**19.4**
Fill Vol	**0.0**
Cum Cut Vol	**2293.3**
Cum Fill Vol	**0.1**
Net Vol	**2293.2**

20+75



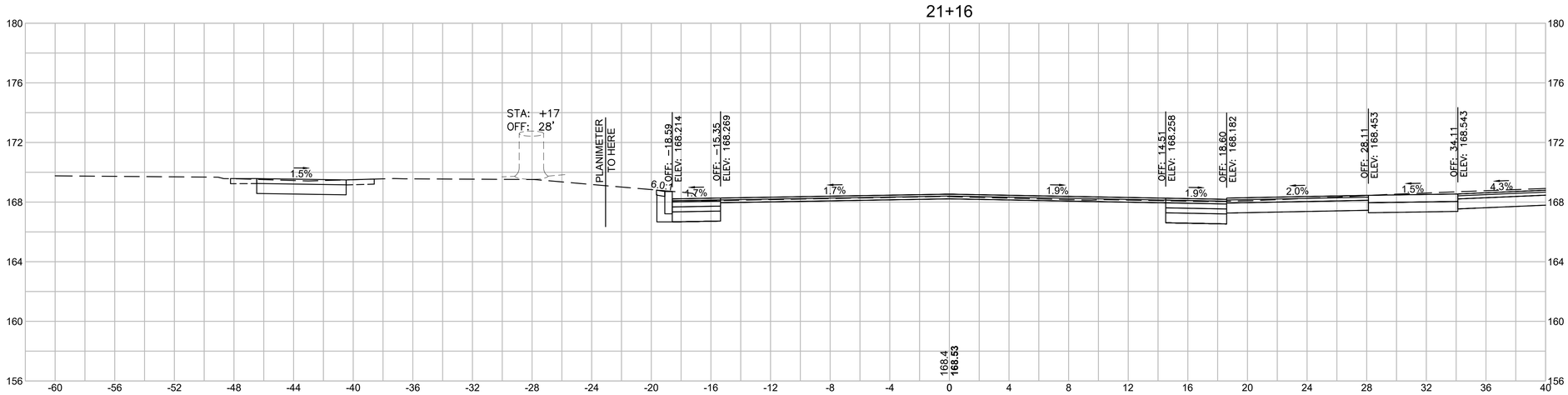
Total Volume at Station 20+75.00	
Cut Area	**15.75**
Fill Area	**0.00**
Cut Vol	**20.8**
Fill Vol	**0.0**
Cum Cut Vol	**2273.9**
Cum Fill Vol	**0.1**
Net Vol	**2273.8**

4 0 4 8
SCALE IN FEET

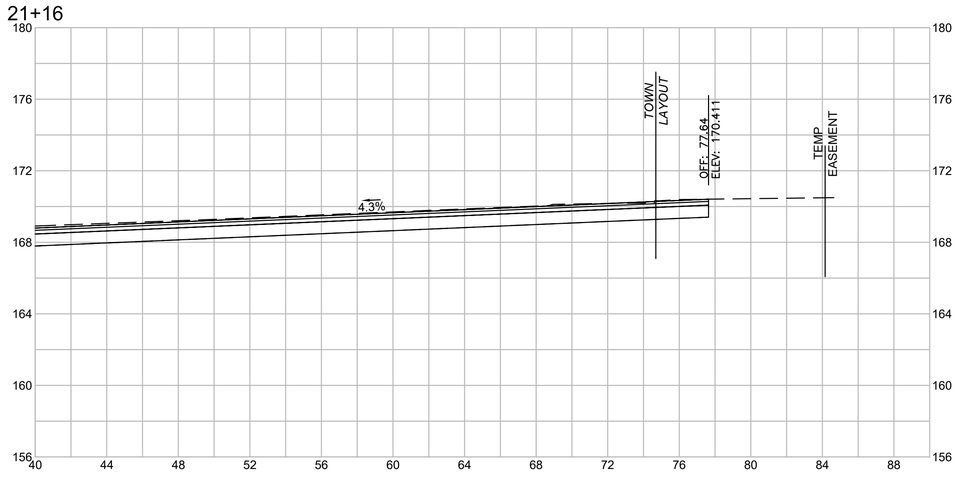
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	127	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET



Total Volume at Station 21+16.00	
Cut Area	**88.79**
Fill Area	**0.00**
Cut Vol	**34.1**
Fill Vol	**0.0**
Cum Cut Vol	**2327.4**
Cum Fill Vol	**0.1**
Net Vol	**2327.3**



4 0 4 8
SCALE IN FEET

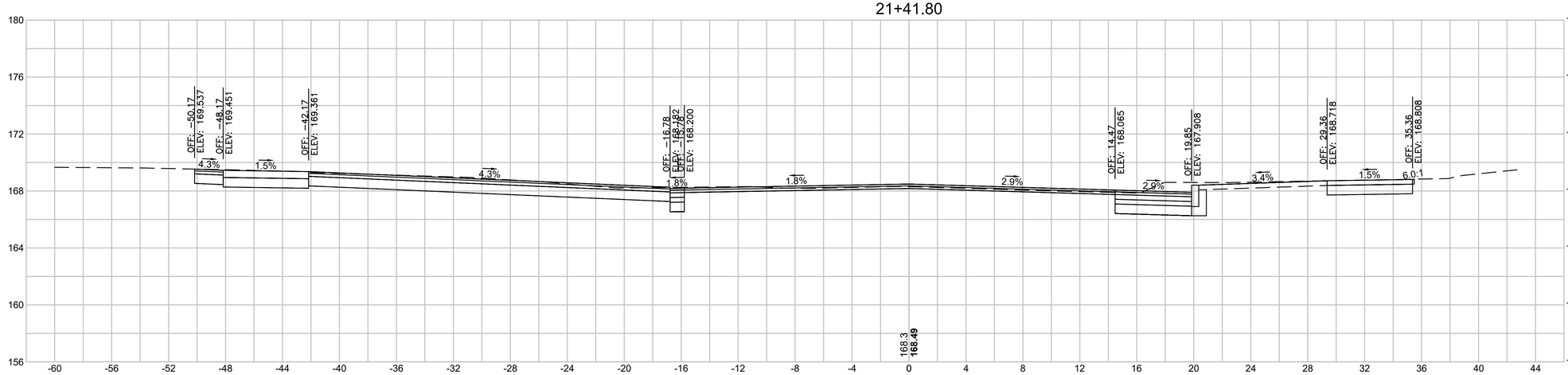
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LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	128	198
PROJECT FILE NO. 608881			

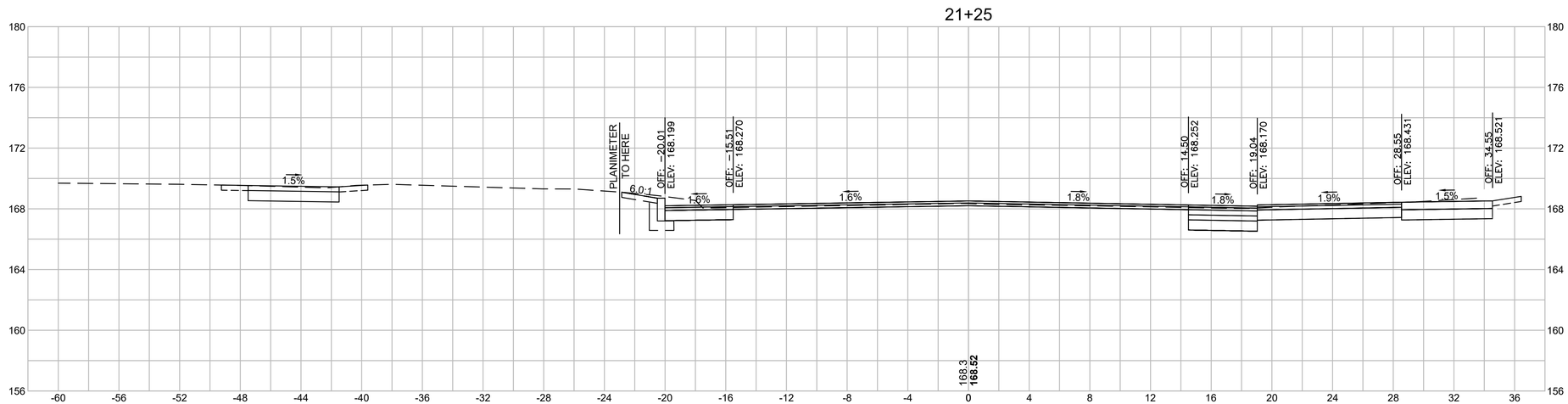
CROSS SECTIONS-LONGMEADOW STREET

21+41.80



Total Volume at Station 21+41.80	
Cut Area	**61.02**
Fill Area	**0.00**
Cut Vol	**29.0**
Fill Vol	**0.0**
Cum Cut Vol	**2376.6**
Cum Fill Vol	**0.1**
Net Vol	**2376.5**

21+25



Total Volume at Station 21+25.00	
Cut Area	**32.21**
Fill Area	**0.00**
Cut Vol	**20.2**
Fill Vol	**0.0**
Cum Cut Vol	**2347.6**
Cum Fill Vol	**0.1**
Net Vol	**2347.5**

4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:22 PM

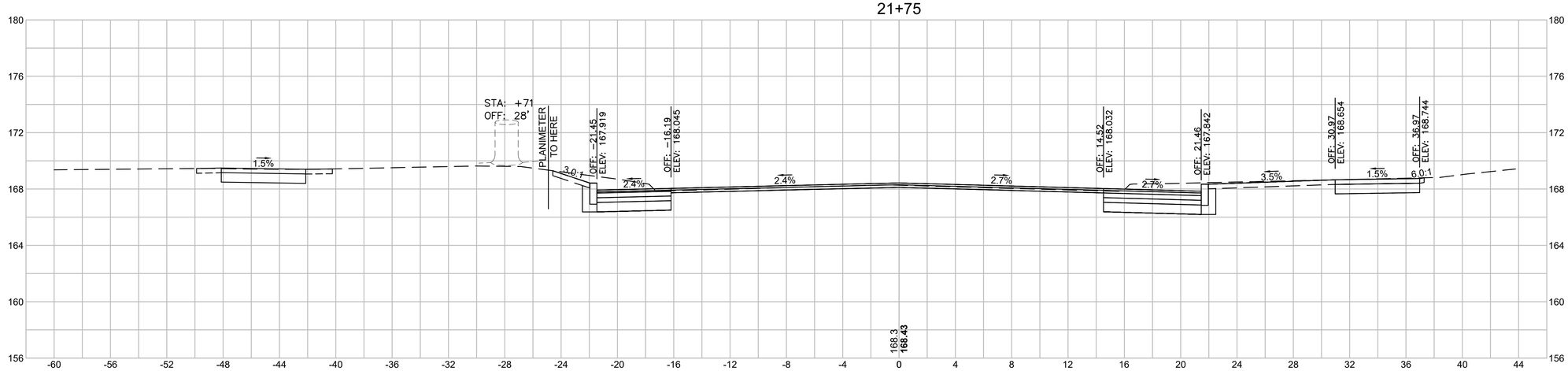
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	129	198
PROJECT FILE NO. 608881			

CROSS SECTIONS-LONGMEADOW STREET

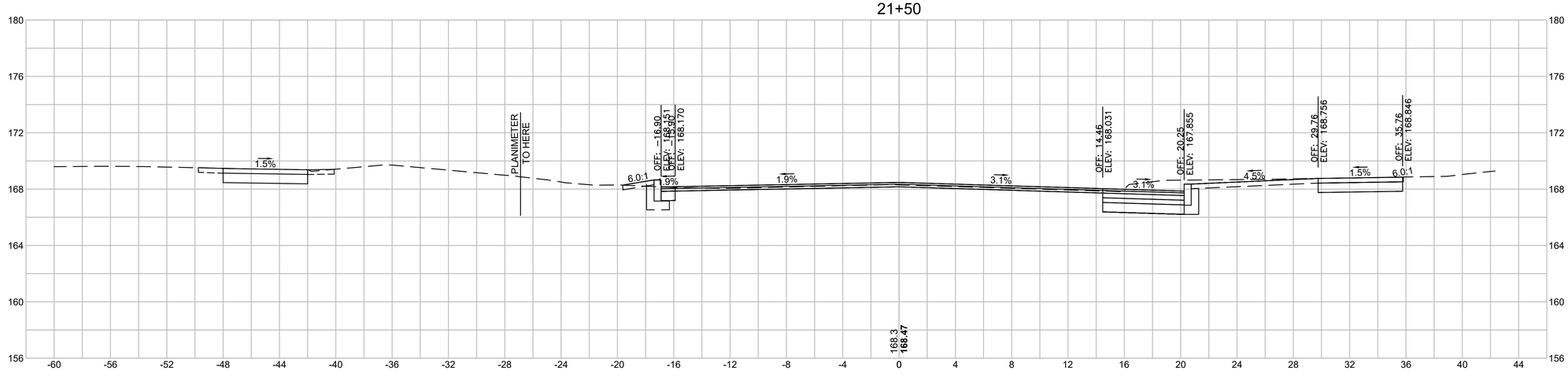
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:22 PM

21+75



Total Volume at Station 21+75.00	
Cut Area	**37.61**
Fill Area	**0.00**
Cut Vol	**31.9**
Fill Vol	**0.0**
Cum Cut Vol	**2422.5**
Cum Fill Vol	**0.1**
Net Vol	**2422.4**

21+50



Total Volume at Station 21+50.00	
Cut Area	**31.27**
Fill Area	**0.00**
Cut Vol	**14.0**
Fill Vol	**0.0**
Cum Cut Vol	**2390.6**
Cum Fill Vol	**0.1**
Net Vol	**2390.5**

4 0 4 8
SCALE IN FEET

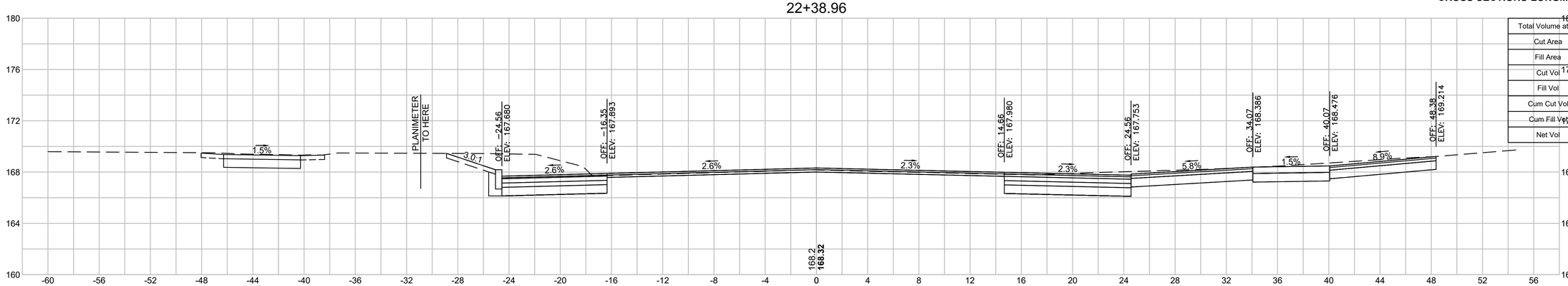
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	130	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

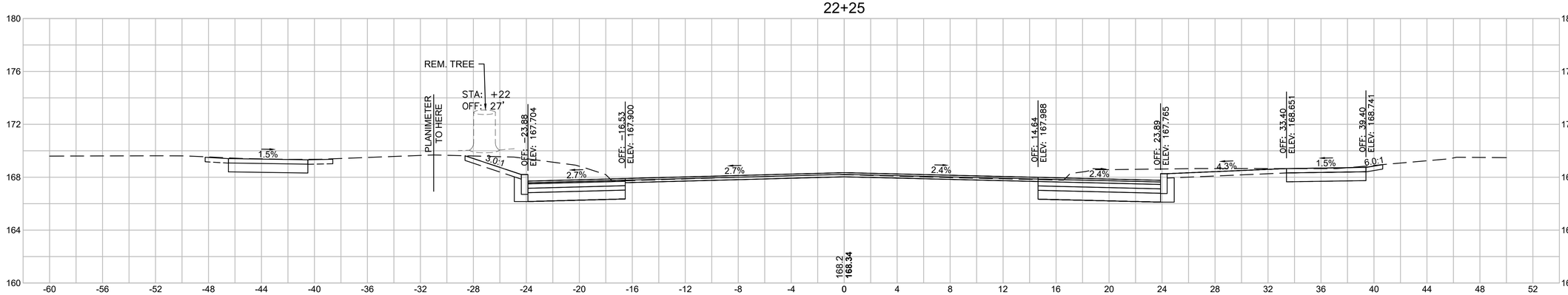
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

22+38.96



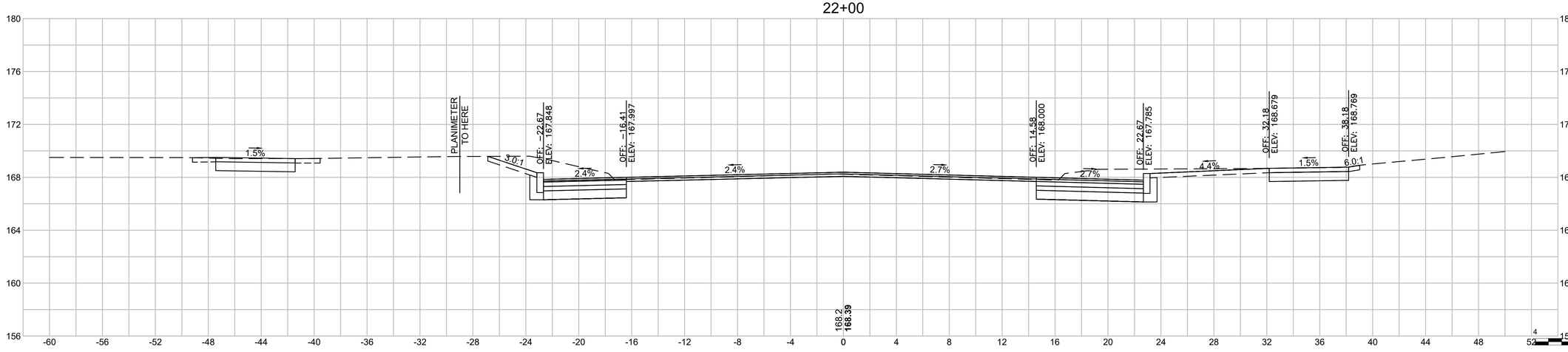
Total Volume at Station 22+38.96	
Cut Area	**78.50**
Fill Area	**0.00**
Cut Vol	**37.7**
Fill Vol	**0.0**
Cum Cut Vol	**2557.1**
Cum Fill Vol	**0.1**
Net Vol	**2557.1**

22+25



Total Volume at Station 22+25.00	
Cut Area	**67.25**
Fill Area	**0.00**
Cut Vol	**55.4**
Fill Vol	**0.0**
Cum Cut Vol	**2519.5**
Cum Fill Vol	**0.1**
Net Vol	**2519.4**

22+00



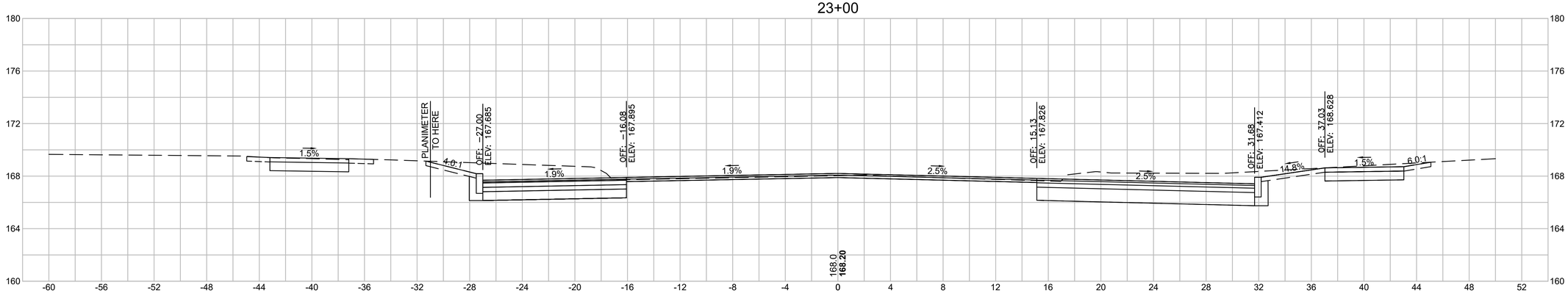
Total Volume at Station 22+00.00	
Cut Area	**52.32**
Fill Area	**0.00**
Cut Vol	**41.6**
Fill Vol	**0.0**
Cum Cut Vol	**2464.1**
Cum Fill Vol	**0.1**
Net Vol	**2464.0**

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	131	198
PROJECT FILE NO.	608881		

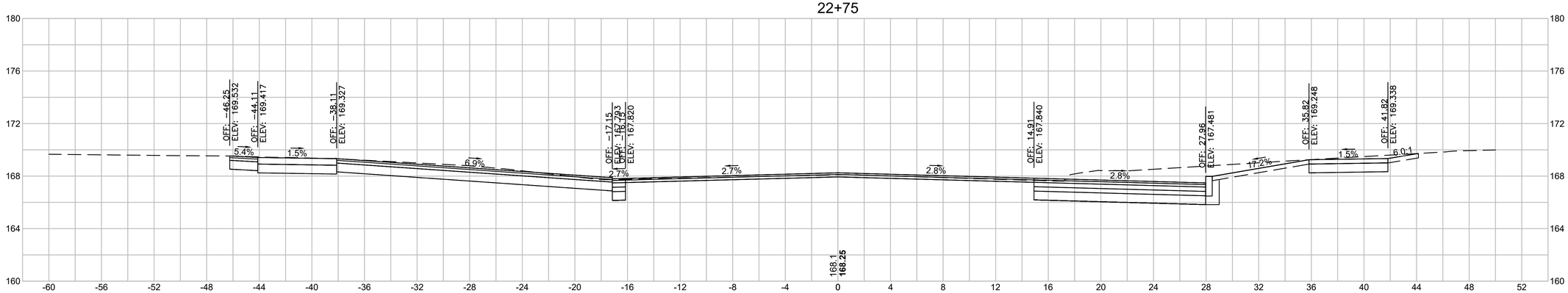
CROSS SECTIONS-LONGMEADOW STREET

23+00



Total Volume at Station 23+00.00	
Cut Area	**71.63**
Fill Area	**0.00**
Cut Vol	**69.2**
Fill Vol	**0.0**
Cum Cut Vol	**2727.0**
Cum Fill Vol	**0.1**
Net Vol	**2726.9**

22+75



Total Volume at Station 22+75.00	
Cut Area	**77.88**
Fill Area	**0.00**
Cut Vol	**69.7**
Fill Vol	**0.0**
Cum Cut Vol	**2657.8**
Cum Fill Vol	**0.1**
Net Vol	**2657.7**

22+50



4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:22 PM

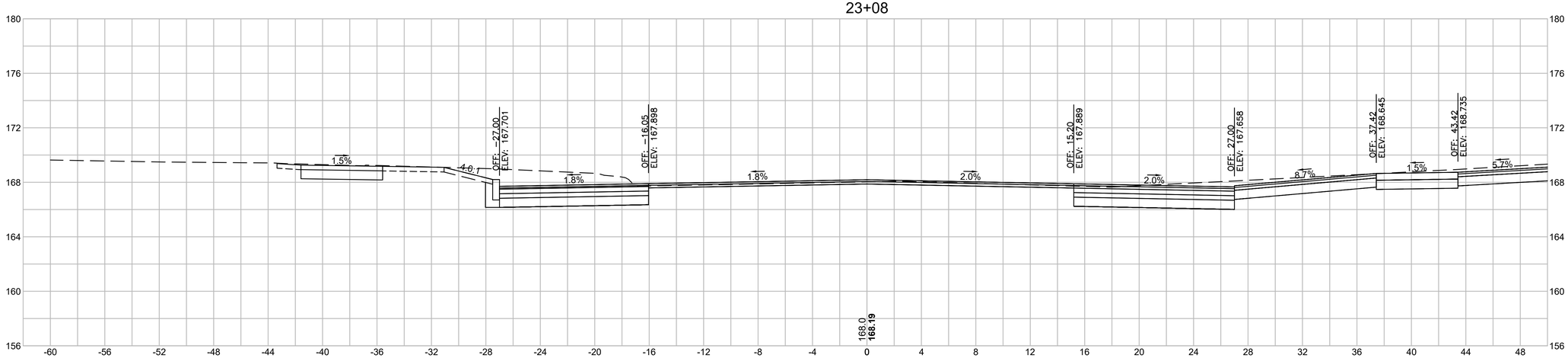
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	132	198
PROJECT FILE NO. 608881			

CROSS SECTIONS-LONGMEADOW STREET

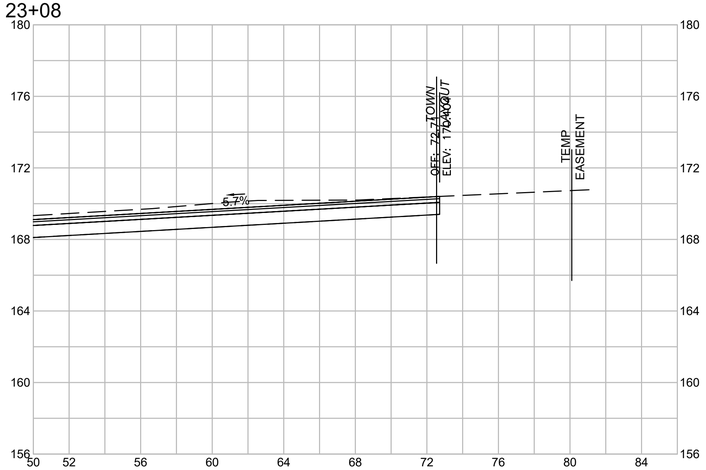
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:22 PM

23+08



Total Volume at Station 23+08.00	
Cut Area	**107.19**
Fill Area	**0.00**
Cut Vol	**26.5**
Fill Vol	**0.0**
Cum Cut Vol	**2753.5**
Cum Fill Vol	**0.1**
Net Vol	**2753.4**

23+08



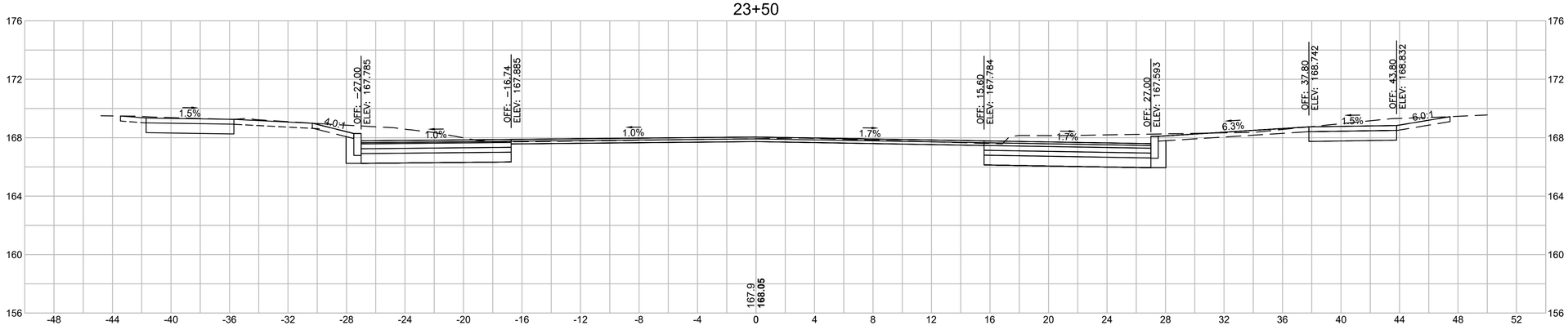


LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

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MA	STP-0032(045)X	133	198
PROJECT FILE NO.	608881		

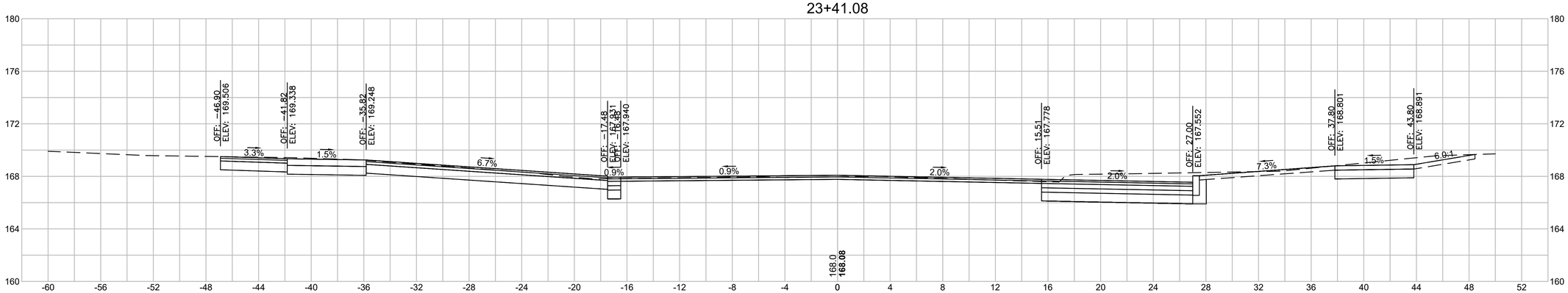
CROSS SECTIONS-LONGMEADOW STREET

23+50



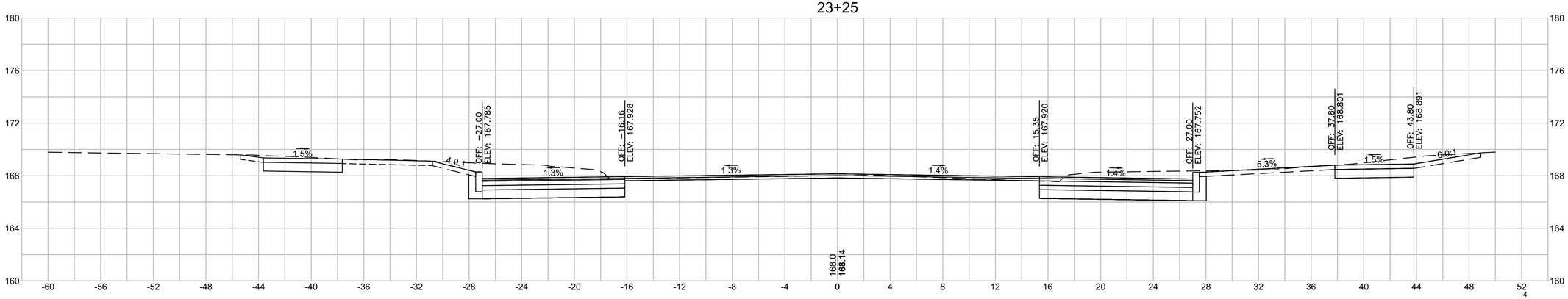
Total Volume at Station 23+50.00	
Cut Area	**61.38**
Fill Area	**0.00**
Cut Vol	**22.5**
Fill Vol	**0.0**
Cum Cut Vol	**2872.7**
Cum Fill Vol	**0.1**
Net Vol	**2872.6**

23+41.08



Total Volume at Station 23+41.08	
Cut Area	**74.97**
Fill Area	**0.00**
Cut Vol	**42.1**
Fill Vol	**0.0**
Cum Cut Vol	**2850.2**
Cum Fill Vol	**0.1**
Net Vol	**2850.1**

23+25



Total Volume at Station 23+25.00	
Cut Area	**66.30**
Fill Area	**0.01**
Cut Vol	**54.6**
Fill Vol	**0.0**
Cum Cut Vol	**2808.1**
Cum Fill Vol	**0.1**
Net Vol	**2808.0**

4 0 4 8
SCALE IN FEET

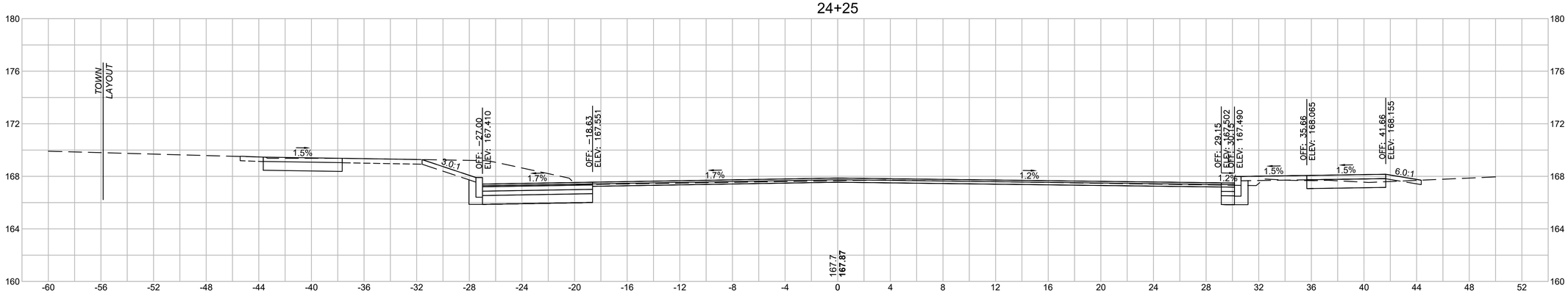
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:22 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	134	198
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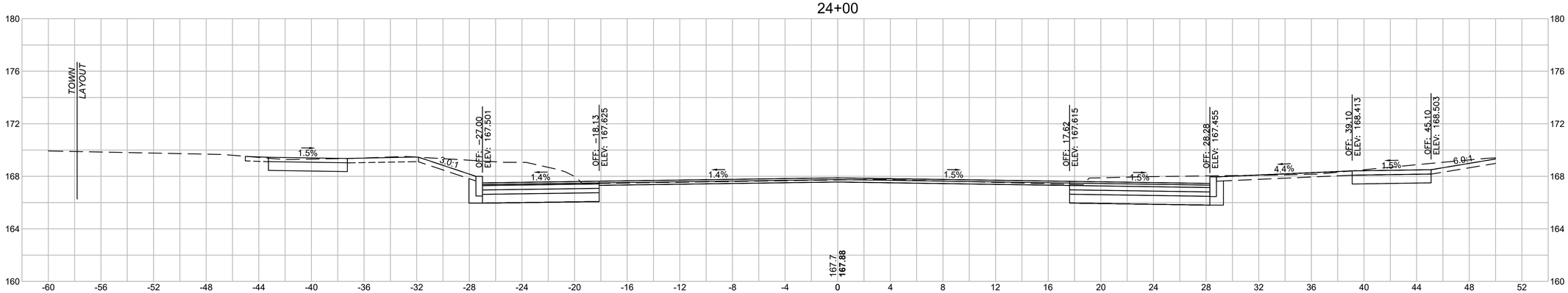
CROSS SECTIONS-LONGMEADOW STREET

24+25



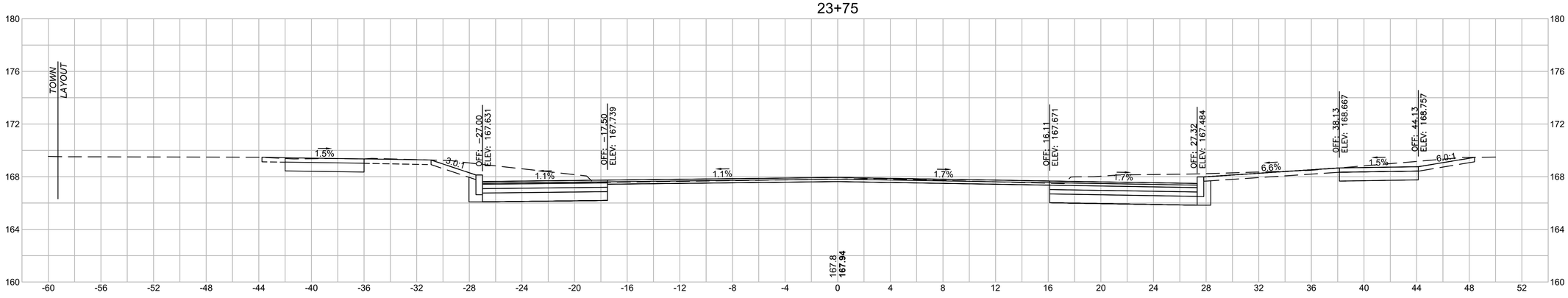
Total Volume at Station 24+25.00	
Cut Area	**30.83**
Fill Area	**0.00**
Cut Vol	**43.8**
Fill Vol	**0.0**
Cum Cut Vol	**3033.5**
Cum Fill Vol	**0.1**
Net Vol	**3033.4**

24+00



Total Volume at Station 24+00.00	
Cut Area	**63.81**
Fill Area	**0.00**
Cut Vol	**59.1**
Fill Vol	**0.0**
Cum Cut Vol	**2989.7**
Cum Fill Vol	**0.1**
Net Vol	**2989.6**

23+75



Total Volume at Station 23+75.00	
Cut Area	**63.76**
Fill Area	**0.00**
Cut Vol	**57.9**
Fill Vol	**0.0**
Cum Cut Vol	**2930.6**
Cum Fill Vol	**0.1**
Net Vol	**2930.6**

4 0 4 8
SCALE IN FEET

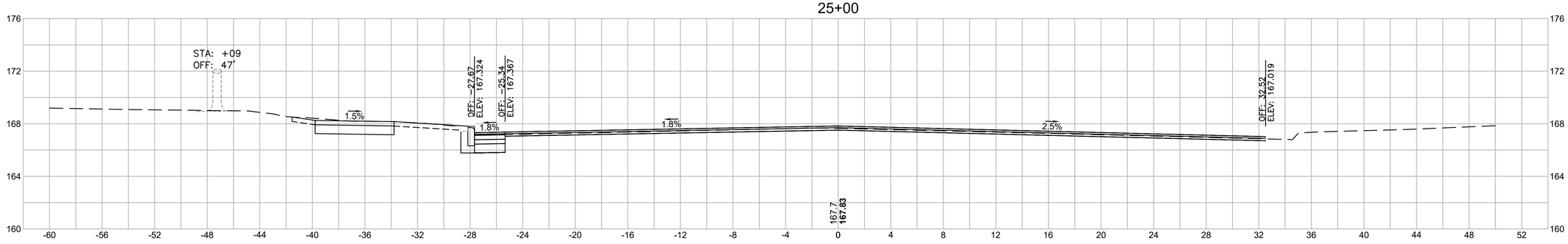
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20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

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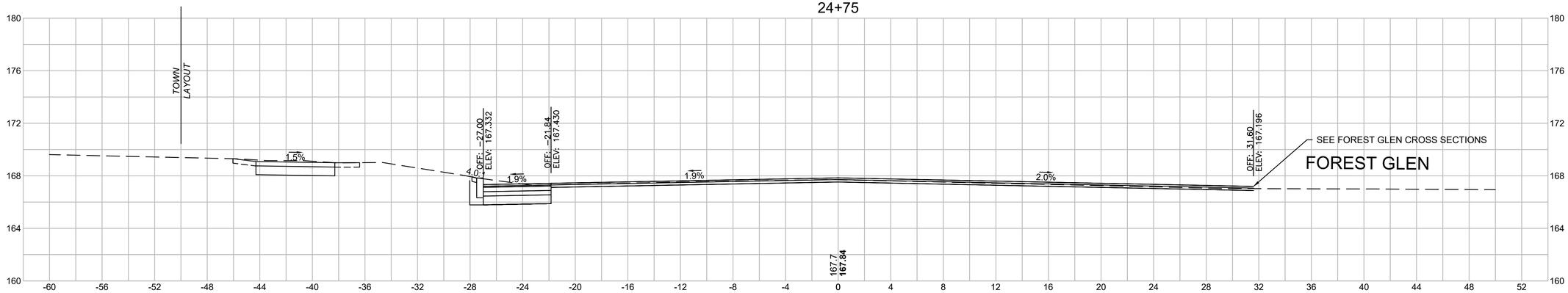
CROSS SECTIONS-LONGMEADOW STREET

25+00



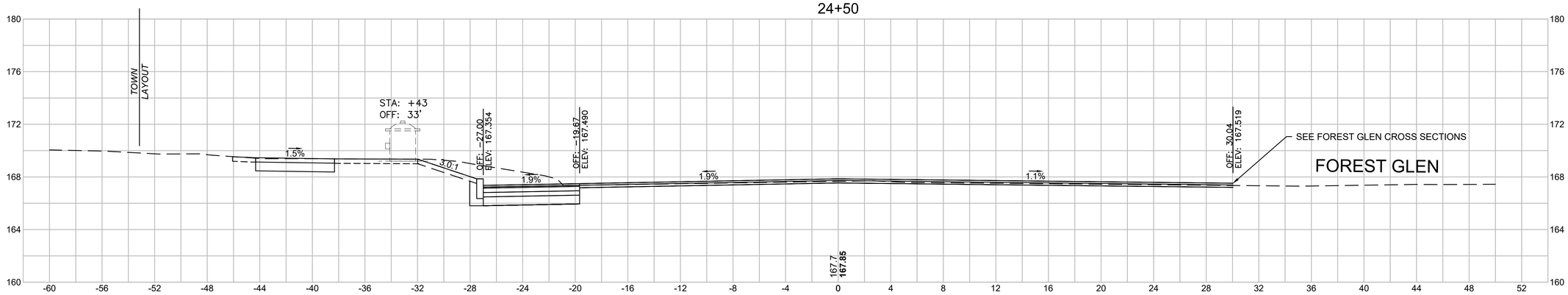
Total Volume at Station 25+00.00	
Cut Area	**4.17**
Fill Area	**0.00**
Cut Vol	**6.6**
Fill Vol	**0.0**
Cum Cut Vol	**3079.9**
Cum Fill Vol	**0.1**
Net Vol	**3079.8**

24+75



Total Volume at Station 24+75.00	
Cut Area	**10.20**
Fill Area	**0.00**
Cut Vol	**15.1**
Fill Vol	**0.0**
Cum Cut Vol	**3073.2**
Cum Fill Vol	**0.1**
Net Vol	**3073.2**

24+50



Total Volume at Station 24+50.00	
Cut Area	**22.39**
Fill Area	**0.00**
Cut Vol	**24.6**
Fill Vol	**0.0**
Cum Cut Vol	**3058.2**
Cum Fill Vol	**0.1**
Net Vol	**3058.1**

4 0 4 8
SCALE IN FEET

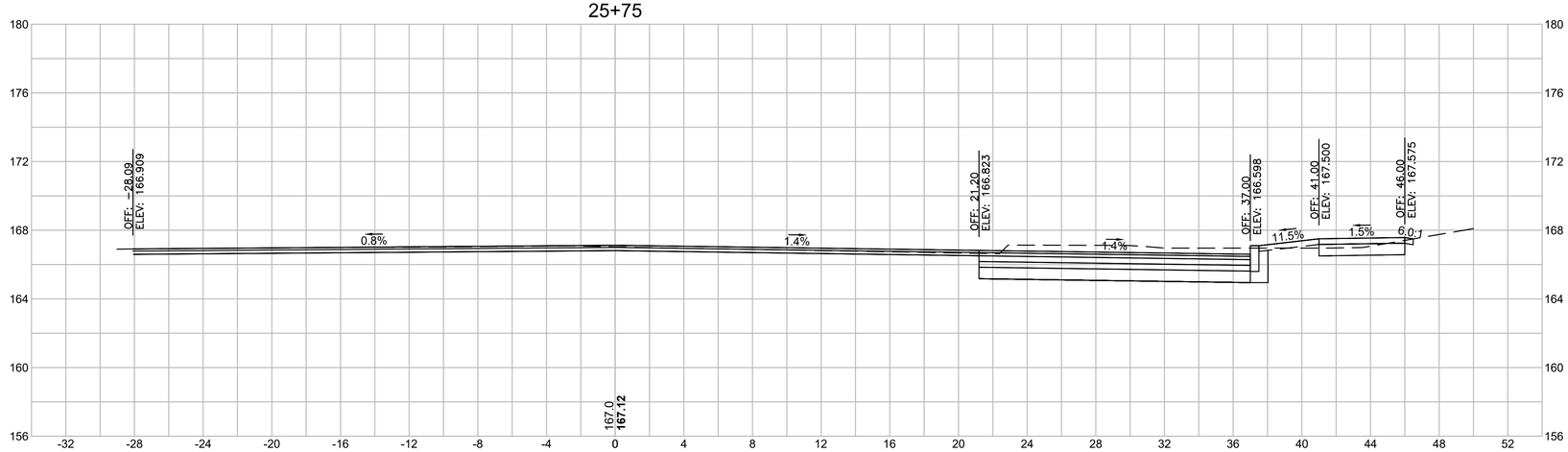
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:23 PM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	136	198
PROJECT FILE NO.	608881		

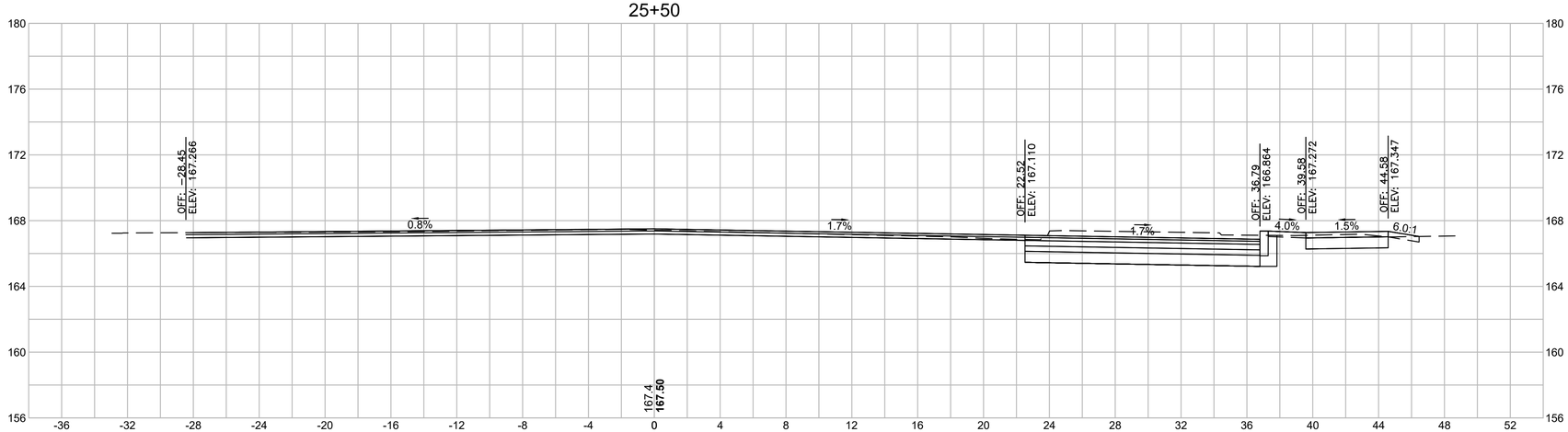
CROSS SECTIONS-LONGMEADOW STREET

25+75



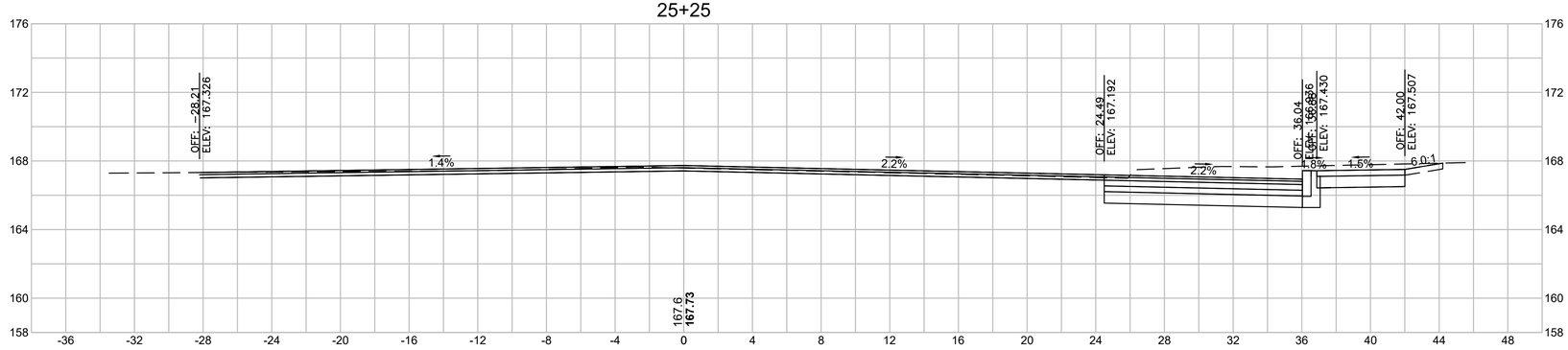
Total Volume at Station 25+75.00	
Cut Area	**36.07**
Fill Area	**0.00**
Cut Vol	**32.2**
Fill Vol	**0.0**
Cum Cut Vol	**3161.2**
Cum Fill Vol	**0.1**
Net Vol	**3161.1**

25+50



Total Volume at Station 25+50.00	
Cut Area	**33.45**
Fill Area	**0.00**
Cut Vol	**31.3**
Fill Vol	**0.0**
Cum Cut Vol	**3129.0**
Cum Fill Vol	**0.1**
Net Vol	**3128.9**

25+25



Total Volume at Station 25+25.00	
Cut Area	**34.20**
Fill Area	**0.00**
Cut Vol	**17.8**
Fill Vol	**0.0**
Cum Cut Vol	**3097.7**
Cum Fill Vol	**0.1**
Net Vol	**3097.6**

4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:23 PM

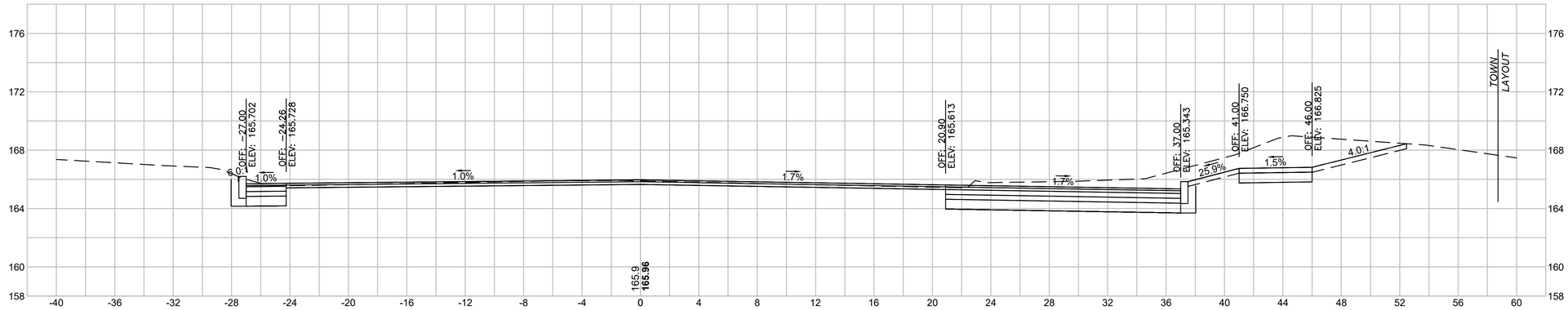
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	137	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

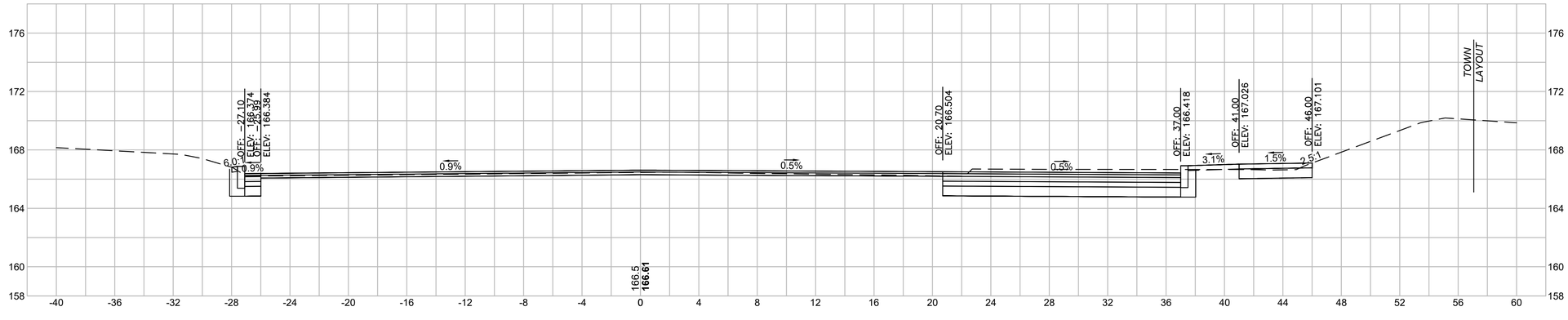
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:23 PM

26+25



Total Volume at Station 26+25.00	
Cut Area	**79.68**
Fill Area	**0.00**
Cut Vol	**61.0**
Fill Vol	**0.0**
Cum Cut Vol	**3263.1**
Cum Fill Vol	**0.1**
Net Vol	**3263.0**

26+00



Total Volume at Station 26+00.00	
Cut Area	**52.18**
Fill Area	**0.00**
Cut Vol	**40.9**
Fill Vol	**0.0**
Cum Cut Vol	**3202.0**
Cum Fill Vol	**0.1**
Net Vol	**3201.9**

4 0 4 8
SCALE IN FEET

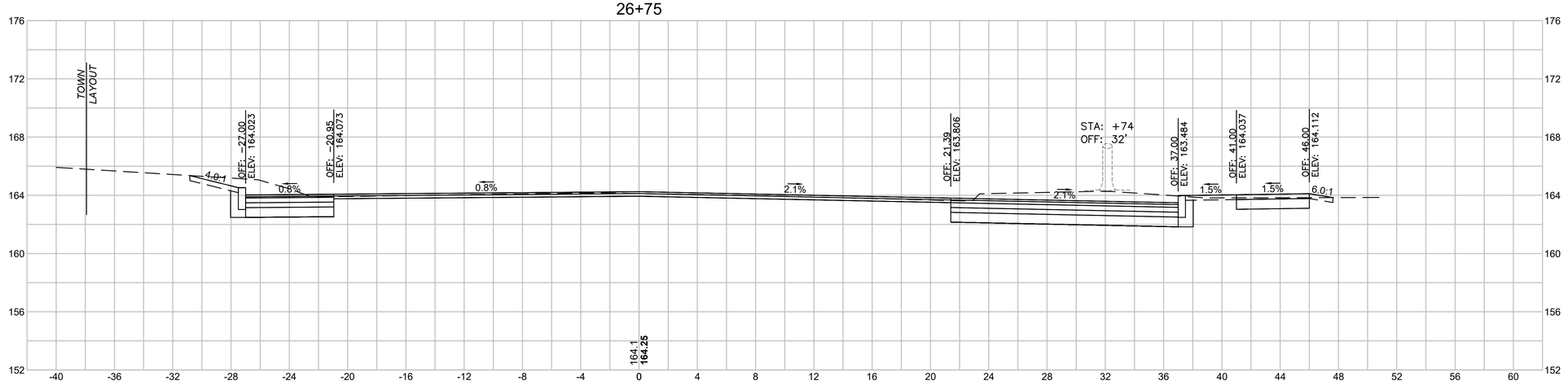
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	138	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

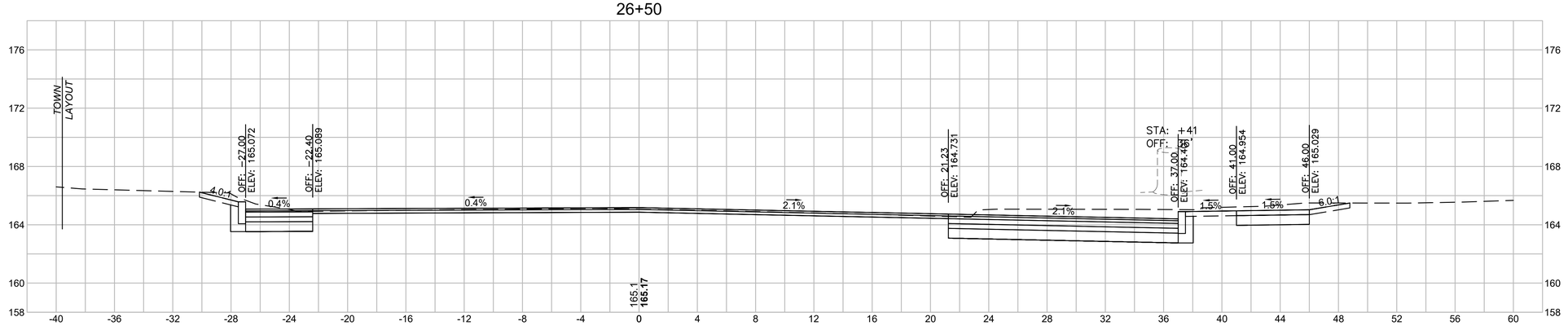
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:24 PM

26+75



Total Volume at Station 26+75.00	
Cut Area	**60.93**
Fill Area	**0.00**
Cut Vol	**57.7**
Fill Vol	**0.0**
Cum Cut Vol	**3387.2**
Cum Fill Vol	**0.1**
Net Vol	**3387.2**

26+50



Total Volume at Station 26+50.00	
Cut Area	**63.80**
Fill Area	**0.00**
Cut Vol	**66.4**
Fill Vol	**0.0**
Cum Cut Vol	**3329.5**
Cum Fill Vol	**0.1**
Net Vol	**3329.4**

4 0 4 8
SCALE IN FEET

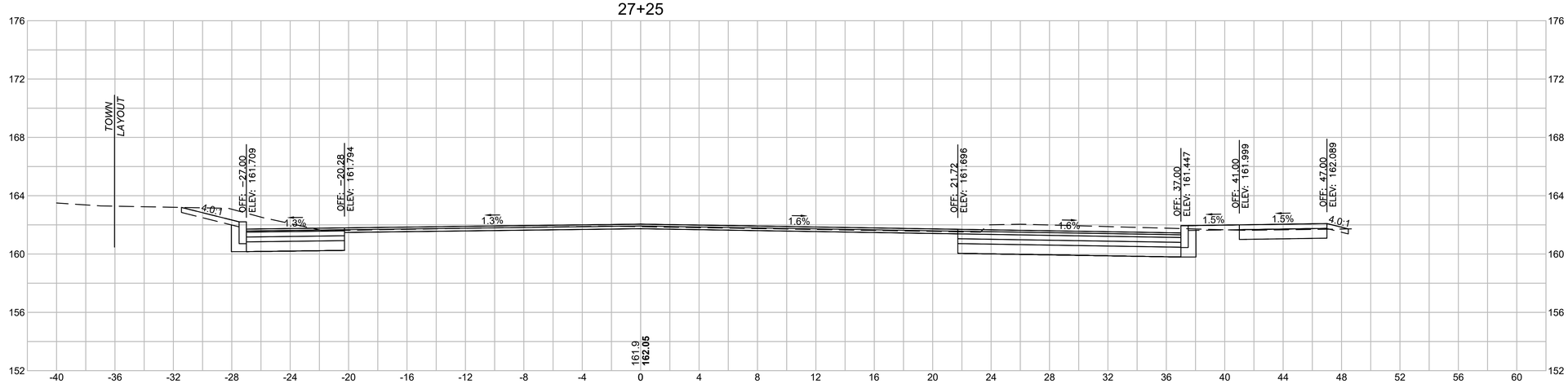
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	139	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

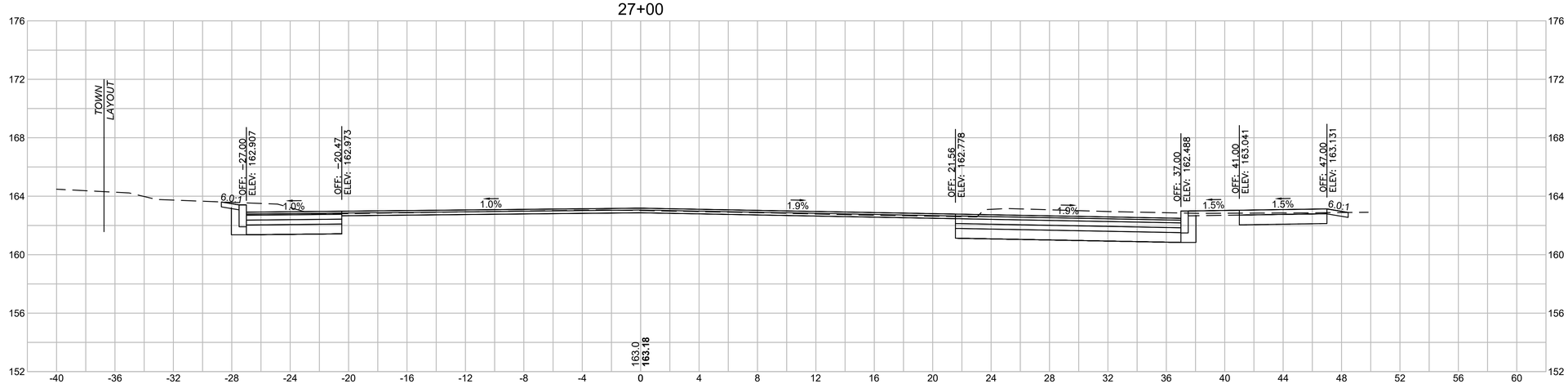
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:24 PM

27+25



Total Volume at Station 27+25.00	
Cut Area	**55.44**
Fill Area	**0.00**
Cut Vol	**50.1**
Fill Vol	**0.0**
Cum Cut Vol	**3490.0**
Cum Fill Vol	**0.1**
Net Vol	**3489.9**

27+00



Total Volume at Station 27+00.00	
Cut Area	**52.76**
Fill Area	**0.00**
Cut Vol	**52.6**
Fill Vol	**0.0**
Cum Cut Vol	**3439.9**
Cum Fill Vol	**0.1**
Net Vol	**3439.8**

4 0 4 8
SCALE IN FEET

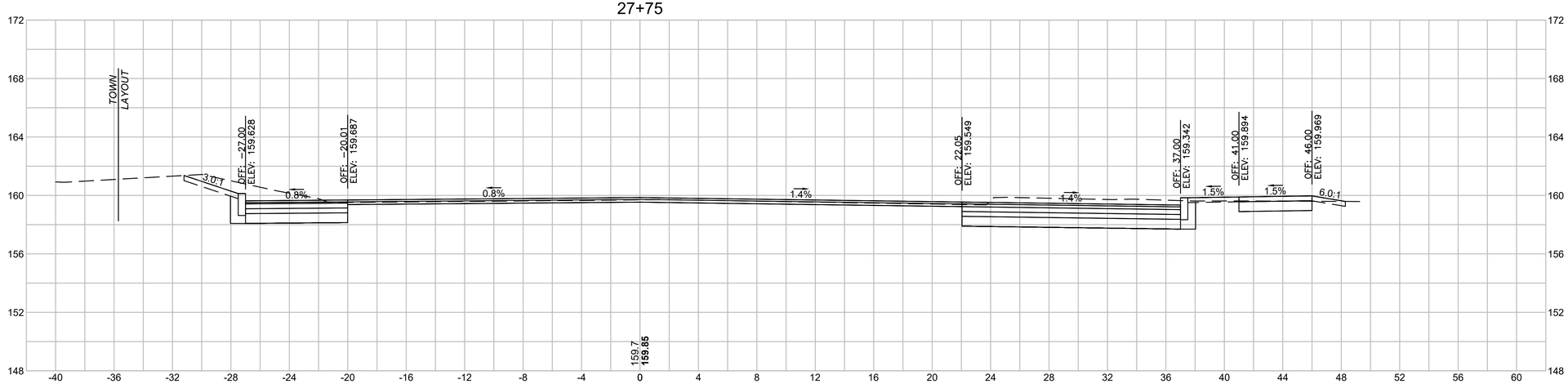
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	140	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

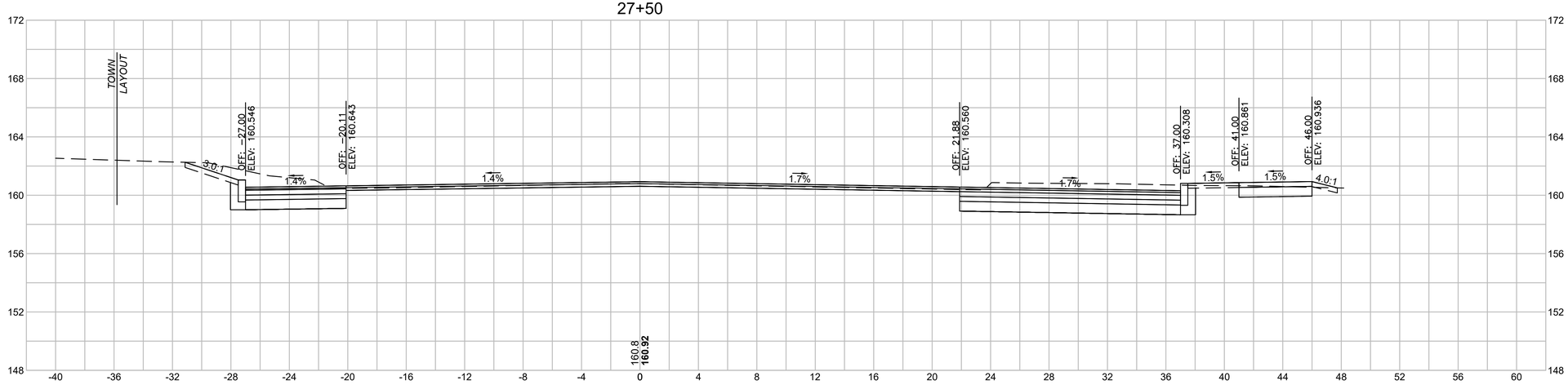
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:24 PM

27+75



Total Volume at Station 27+75.00	
Cut Area	**57.96**
Fill Area	**0.00**
Cut Vol	**53.9**
Fill Vol	**0.0**
Cum Cut Vol	**3596.7**
Cum Fill Vol	**0.1**
Net Vol	**3596.6**

27+50



Total Volume at Station 27+50.00	
Cut Area	**58.57**
Fill Area	**0.00**
Cut Vol	**52.8**
Fill Vol	**0.0**
Cum Cut Vol	**3542.7**
Cum Fill Vol	**0.1**
Net Vol	**3542.7**

4 0 4 8
SCALE IN FEET

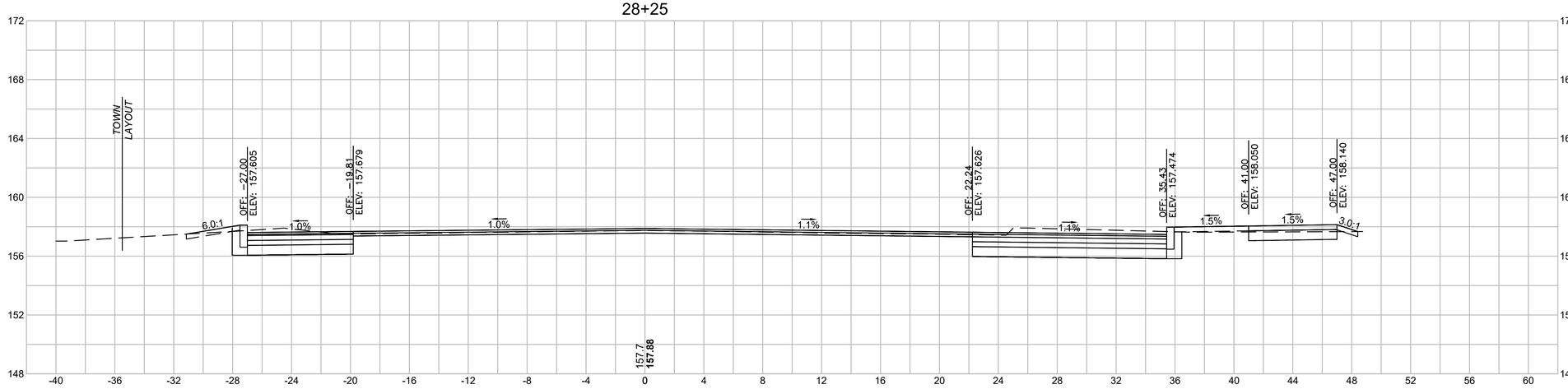
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	141	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

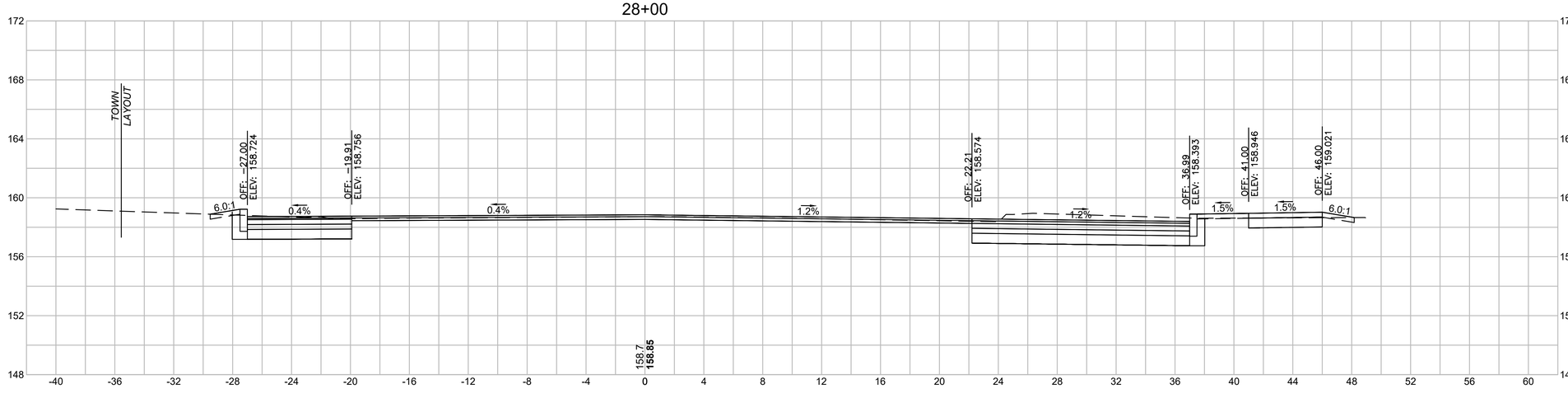
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:24 PM

28+25



Total Volume at Station 28+25.00	
Cut Area	**43.17**
Fill Area	**0.00**
Cut Vol	**41.8**
Fill Vol	**0.0**
Cum Cut Vol	**3687.1**
Cum Fill Vol	**0.1**
Net Vol	**3687.0**

28+00



Total Volume at Station 28+00.00	
Cut Area	**47.04**
Fill Area	**0.00**
Cut Vol	**48.6**
Fill Vol	**0.0**
Cum Cut Vol	**3645.3**
Cum Fill Vol	**0.1**
Net Vol	**3645.2**

4 0 4 8
SCALE IN FEET

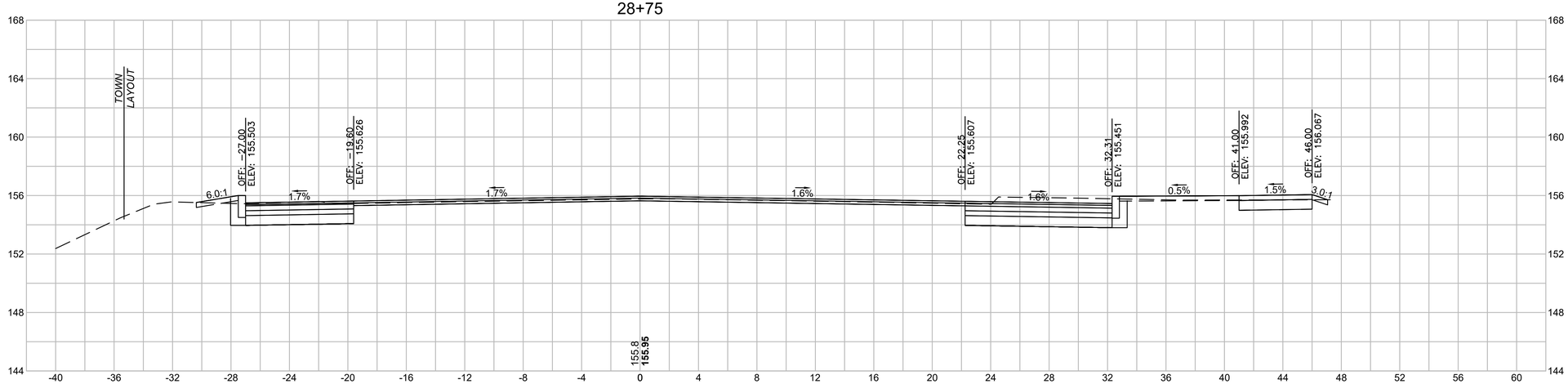
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	142	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

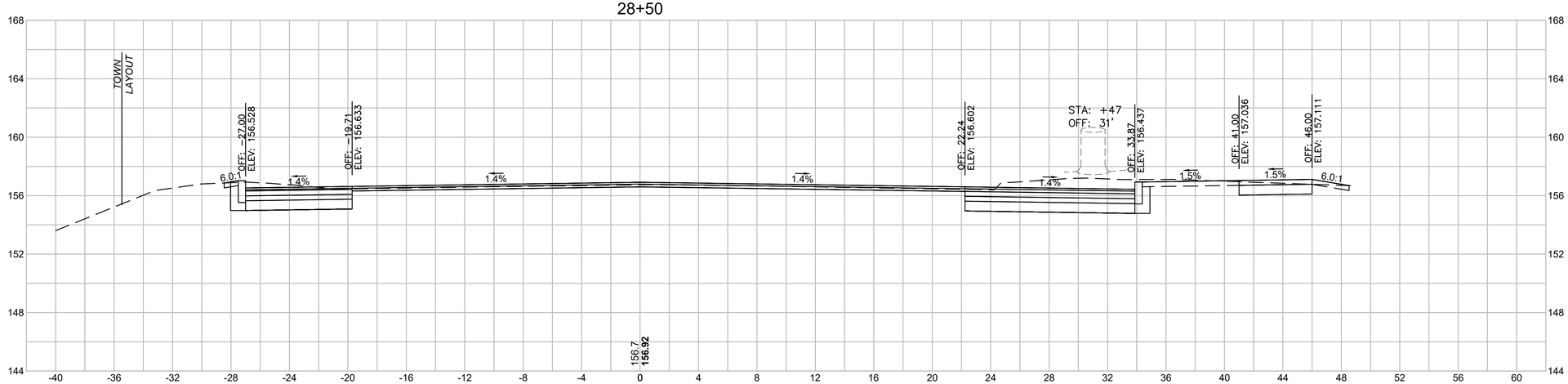
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:25 PM

28+75



Total Volume at Station 28+75.00	
Cut Area	**37.50**
Fill Area	**0.00**
Cut Vol	**39.6**
Fill Vol	**0.0**
Cum Cut Vol	**3768.9**
Cum Fill Vol	**0.1**
Net Vol	**3768.8**

28+50



Total Volume at Station 28+50.00	
Cut Area	**48.01**
Fill Area	**0.00**
Cut Vol	**42.2**
Fill Vol	**0.0**
Cum Cut Vol	**3729.3**
Cum Fill Vol	**0.1**
Net Vol	**3729.2**

4 0 4 8
SCALE IN FEET

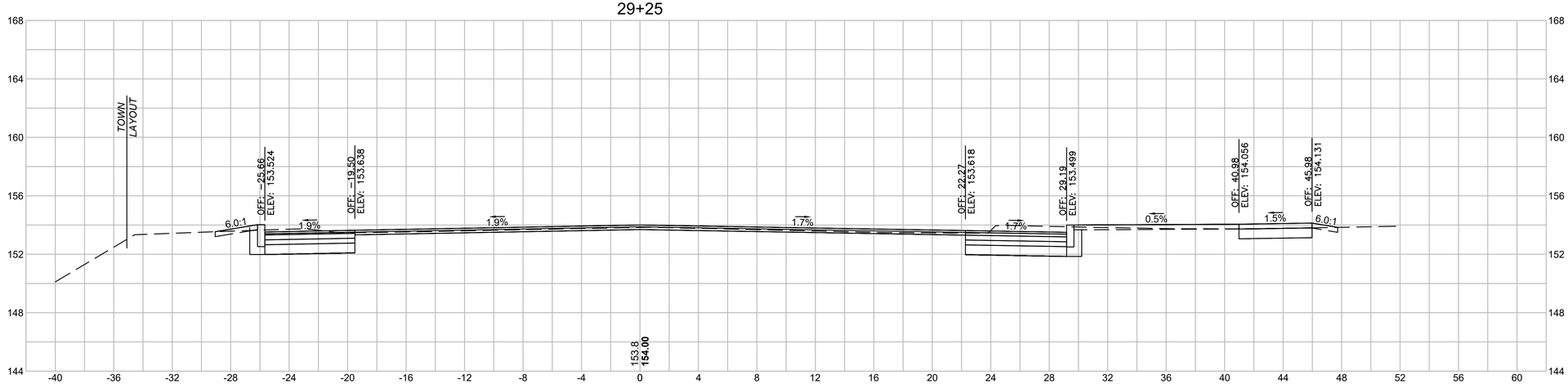
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	143	198
PROJECT FILE NO. 608881			

CROSS SECTIONS-LONGMEADOW STREET

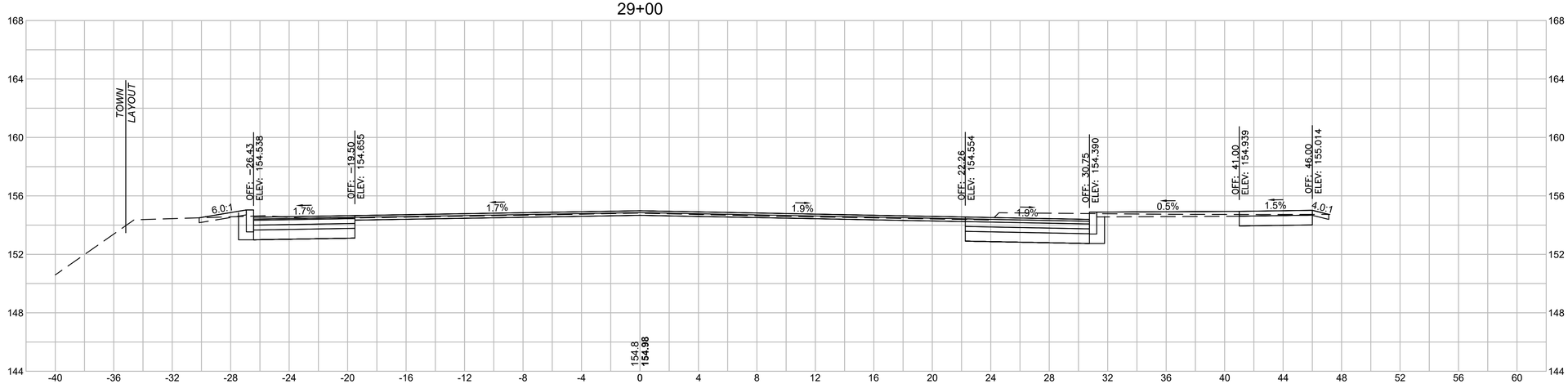
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:25 PM

29+25



Total Volume at Station 29+25.00	
Cut Area	**31.83**
Fill Area	**0.00**
Cut Vol	**31.0**
Fill Vol	**0.0**
Cum Cut Vol	**3833.6**
Cum Fill Vol	**0.1**
Net Vol	**3833.5**

29+00



Total Volume at Station 29+00.00	
Cut Area	**35.24**
Fill Area	**0.00**
Cut Vol	**33.7**
Fill Vol	**0.0**
Cum Cut Vol	**3802.5**
Cum Fill Vol	**0.1**
Net Vol	**3802.5**

4 0 4 8
SCALE IN FEET

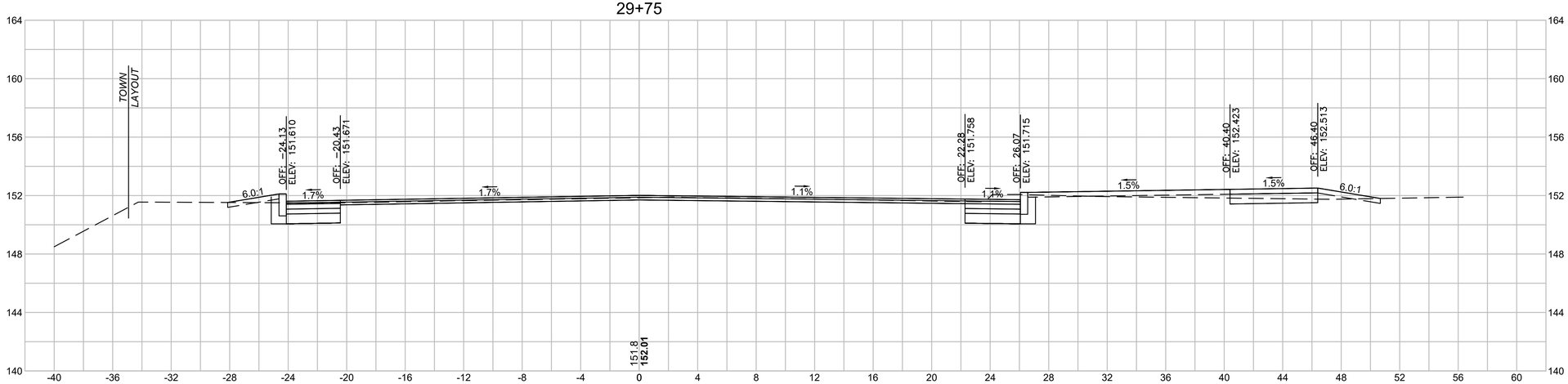
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	144	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

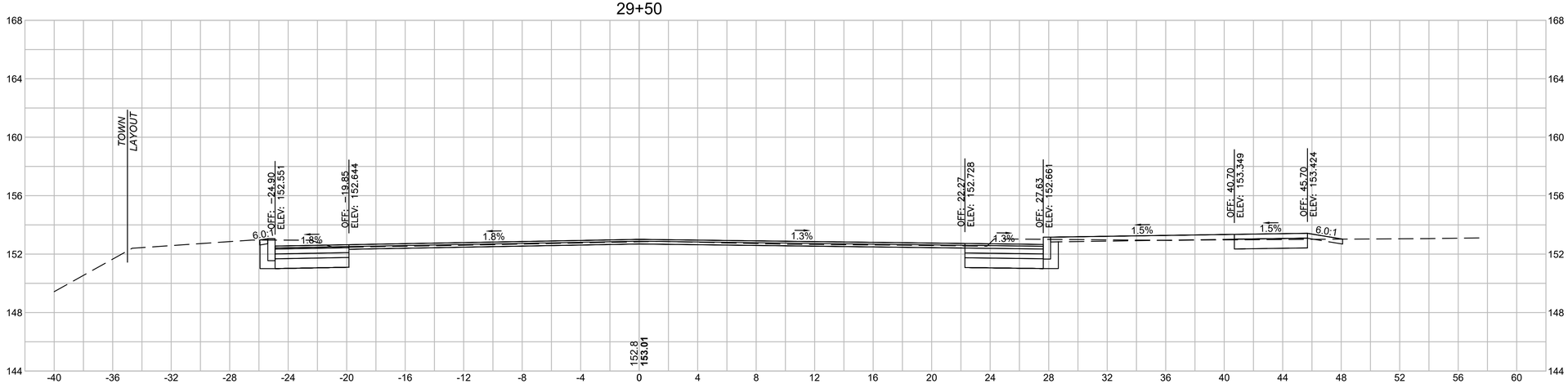
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:25 PM

29+75



Total Volume at Station 29+75.00	
Cut Area	**17.64**
Fill Area	**0.00**
Cut Vol	**21.5**
Fill Vol	**0.0**
Cum Cut Vol	**3883.2**
Cum Fill Vol	**0.1**
Net Vol	**3883.1**

29+50



Total Volume at Station 29+50.00	
Cut Area	**28.81**
Fill Area	**0.00**
Cut Vol	**28.1**
Fill Vol	**0.0**
Cum Cut Vol	**3861.7**
Cum Fill Vol	**0.1**
Net Vol	**3861.6**

4 0 4 8
SCALE IN FEET

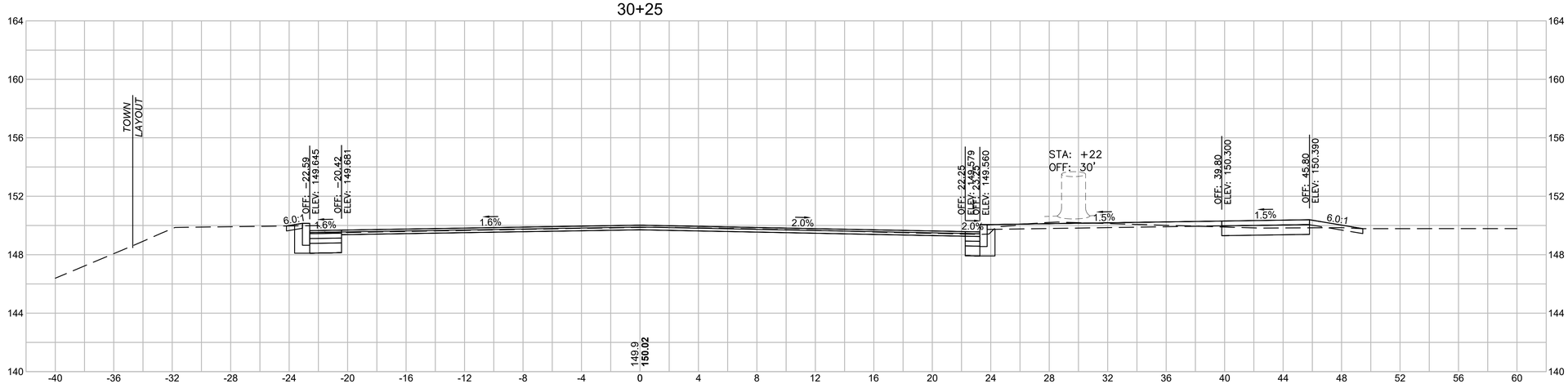
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	145	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

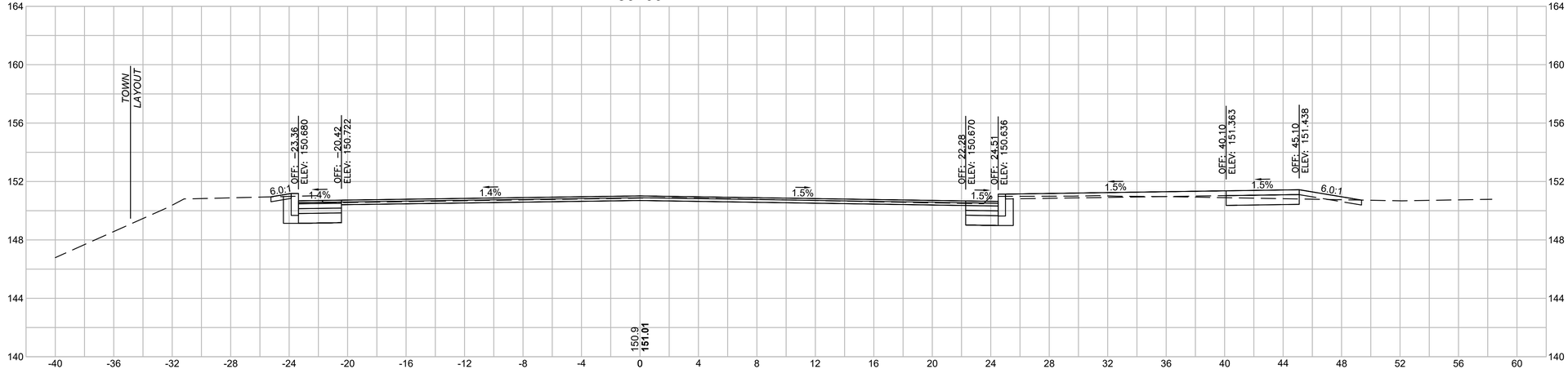
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:25 PM

30+25



Total Volume at Station 30+25.00	
Cut Area	**18.72**
Fill Area	**0.00**
Cut Vol	**17.0**
Fill Vol	**0.0**
Cum Cut Vol	**3916.6**
Cum Fill Vol	**0.1**
Net Vol	**3916.5**

30+00



Total Volume at Station 30+00.00	
Cut Area	**17.91**
Fill Area	**0.00**
Cut Vol	**16.5**
Fill Vol	**0.0**
Cum Cut Vol	**3899.6**
Cum Fill Vol	**0.1**
Net Vol	**3899.6**

4 0 4 8
SCALE IN FEET

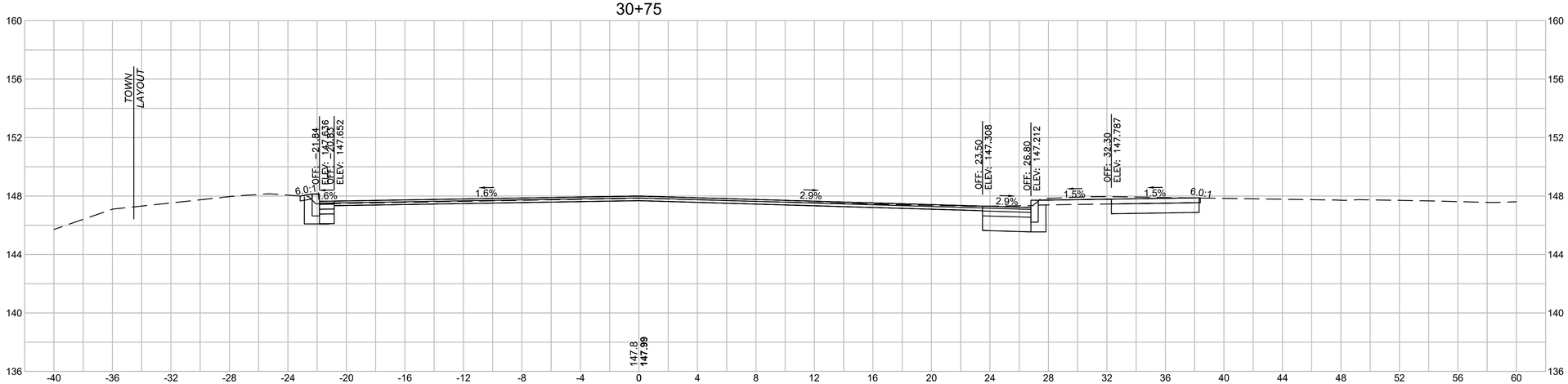
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	146	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

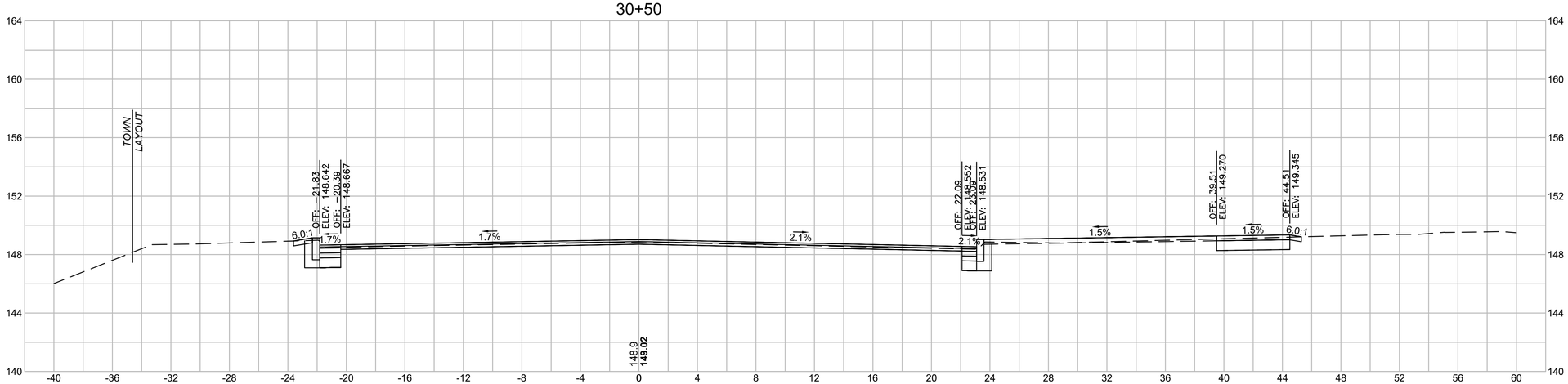
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:25 PM

30+75



Total Volume at Station 30+75.00	
Cut Area	**33.74**
Fill Area	**0.00**
Cut Vol	**26.7**
Fill Vol	**0.0**
Cum Cut Vol	**3963.0**
Cum Fill Vol	**0.1**
Net Vol	**3962.9**

30+50



Total Volume at Station 30+50.00	
Cut Area	**23.92**
Fill Area	**0.00**
Cut Vol	**19.7**
Fill Vol	**0.0**
Cum Cut Vol	**3936.3**
Cum Fill Vol	**0.1**
Net Vol	**3936.2**

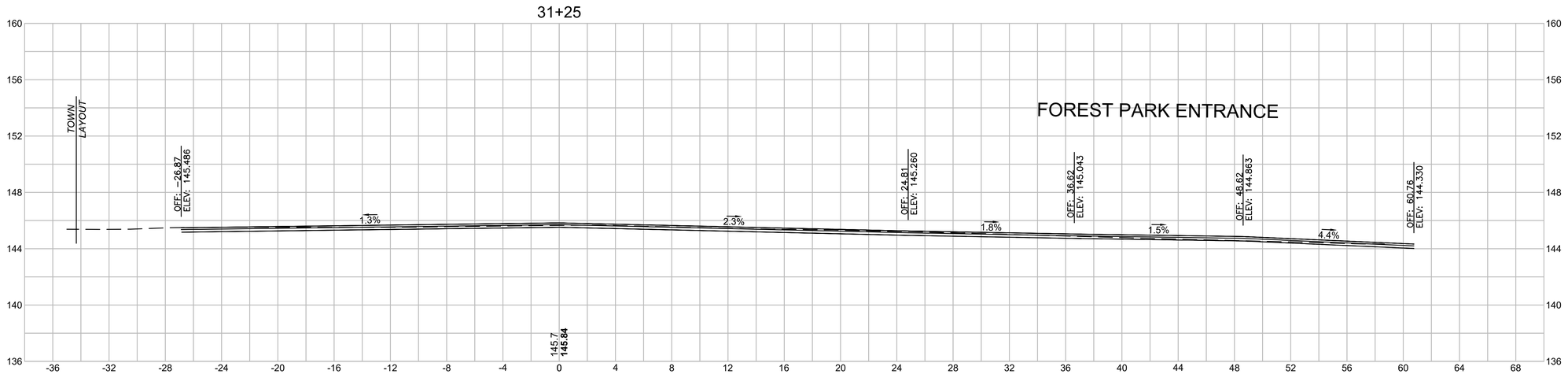
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

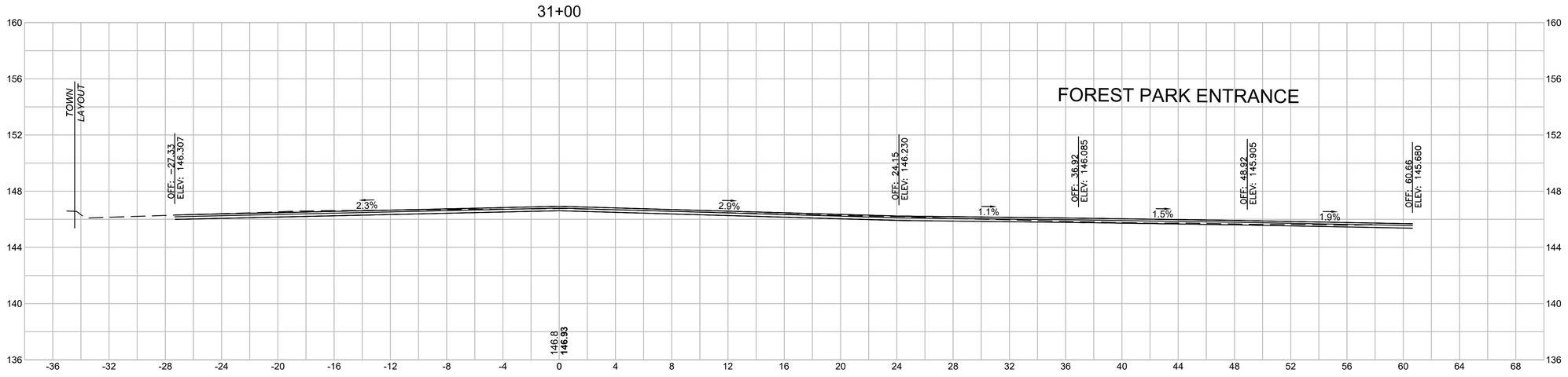
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	147	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:26 PM



Total Volume at Station 31+25.00	
Cut Area	**4.61**
Fill Area	**0.00**
Cut Vol	**4.1**
Fill Vol	**0.0**
Cum Cut Vol	**3984.7**
Cum Fill Vol	**0.1**
Net Vol	**3984.7**



Total Volume at Station 31+00.00	
Cut Area	**4.27**
Fill Area	**0.00**
Cut Vol	**17.6**
Fill Vol	**0.0**
Cum Cut Vol	**3980.6**
Cum Fill Vol	**0.1**
Net Vol	**3980.5**

4 0 4 8
SCALE IN FEET

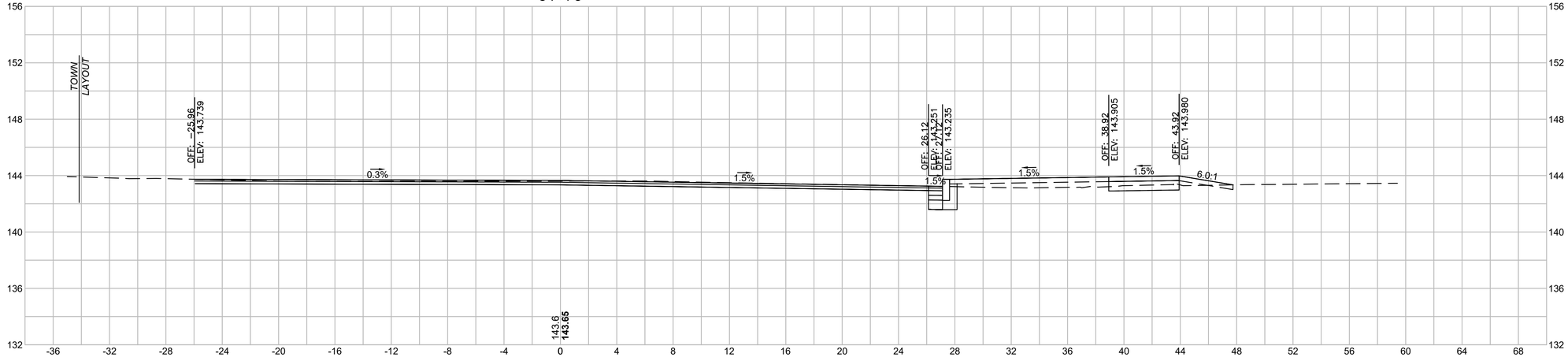
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	148	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

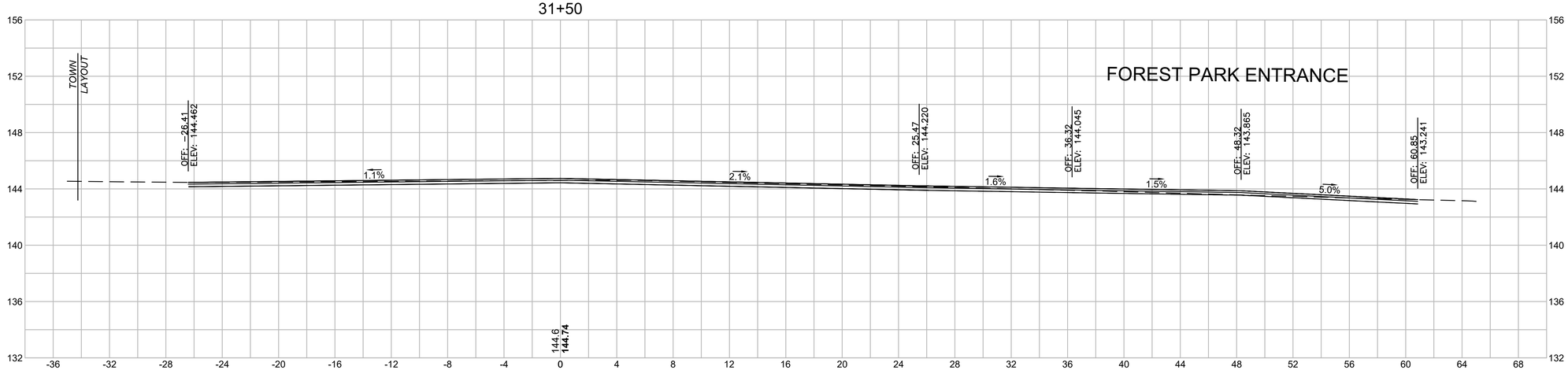
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:26 PM

31+75



Total Volume at Station 31+75.00	
Cut Area	**10.07**
Fill Area	**0.00**
Cut Vol	**7.1**
Fill Vol	**0.0**
Cum Cut Vol	**3996.5**
Cum Fill Vol	**0.1**
Net Vol	**3996.4**

31+50



Total Volume at Station 31+50.00	
Cut Area	**5.35**
Fill Area	**0.00**
Cut Vol	**4.6**
Fill Vol	**0.0**
Cum Cut Vol	**3989.3**
Cum Fill Vol	**0.1**
Net Vol	**3989.3**

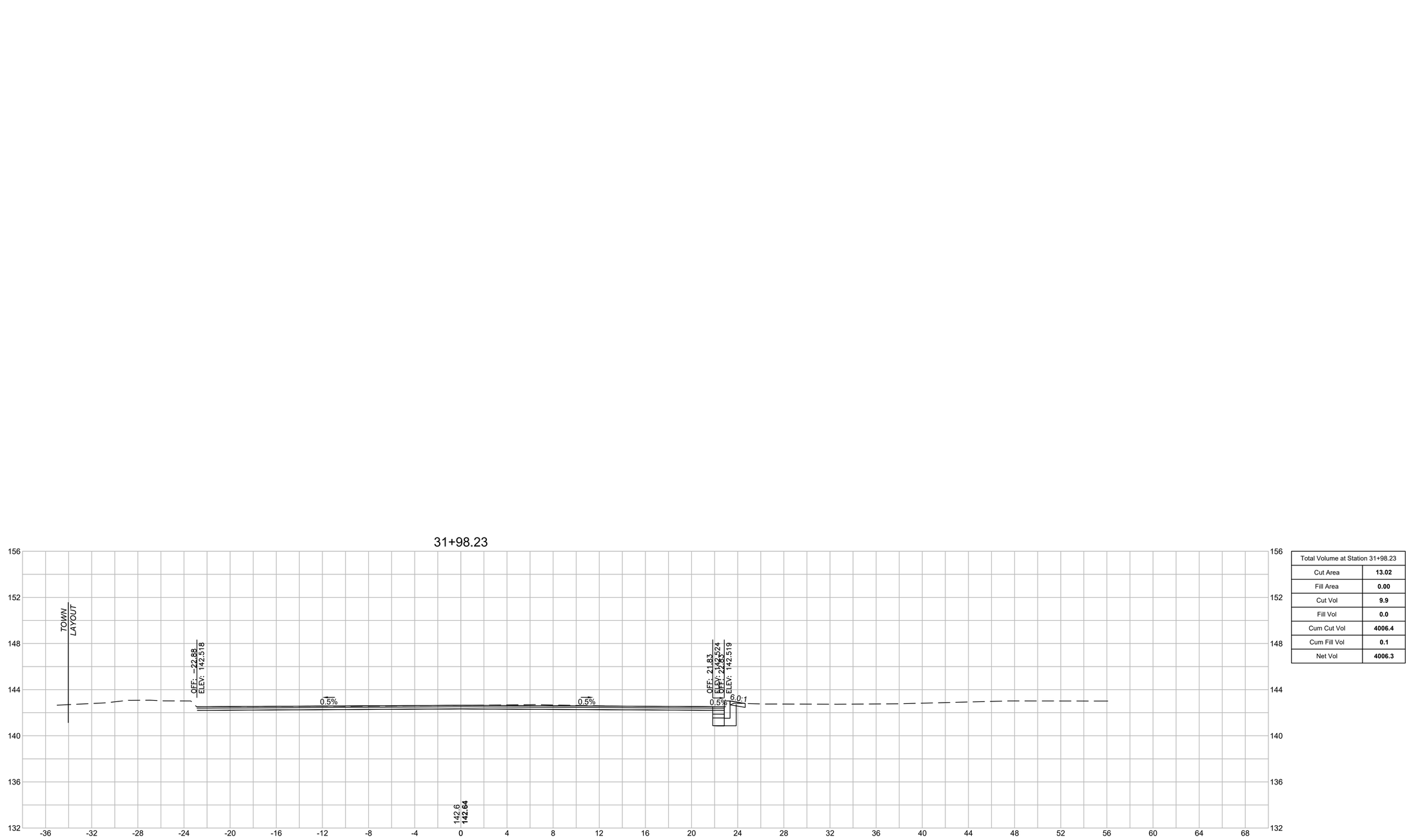
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	149	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-LONGMEADOW STREET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 23-Jun-2025 5:26 PM



Total Volume at Station 31+98.23	
Cut Area	**13.02**
Fill Area	**0.00**
Cut Vol	**9.9**
Fill Vol	**0.0**
Cum Cut Vol	**4006.4**
Cum Fill Vol	**0.1**
Net Vol	**4006.3**

4 0 4 8
SCALE IN FEET

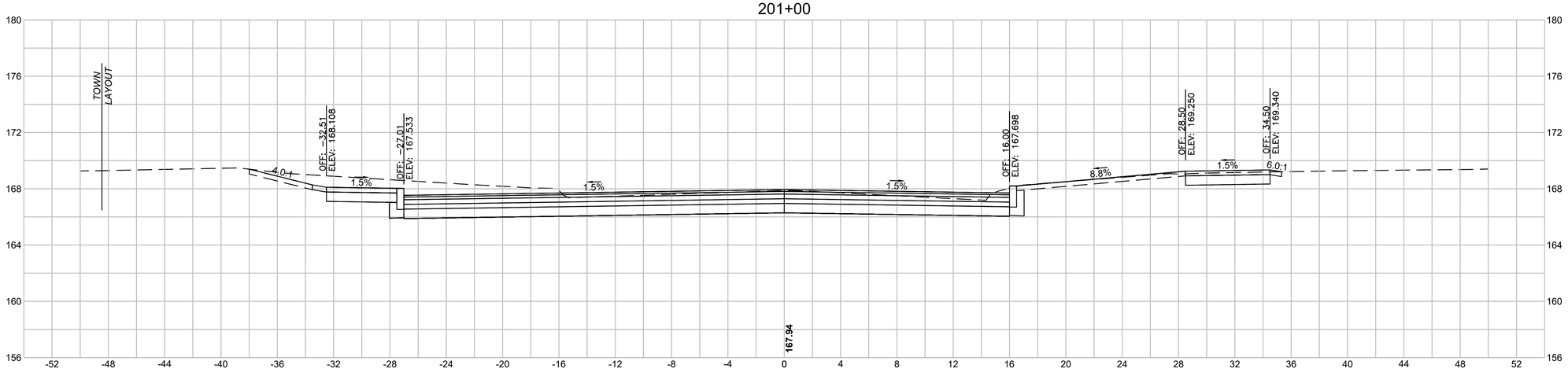
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	150	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

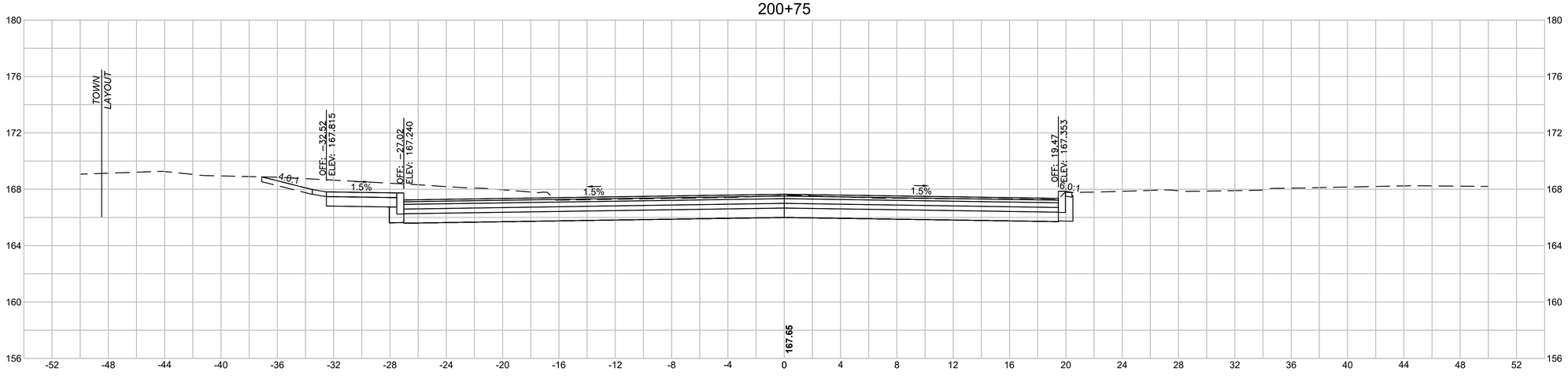
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:52 AM

201+00



Total Volume at Station 201+00.00	
Cut Area	**96.31**
Fill Area	**0.00**
Cut Vol	**89.2**
Fill Vol	**0.0**
Cum Cut Vol	**89.2**
Cum Fill Vol	**0.0**
Net Vol	**89.2**

200+75



Total Volume at Station 200+75.00	
Cut Area	**96.30**
Fill Area	**0.00**
Cut Vol	**0.0**
Fill Vol	**0.0**
Cum Cut Vol	**0.0**
Cum Fill Vol	**0.0**
Net Vol	**0.0**

4 0 4 8
SCALE IN FEET

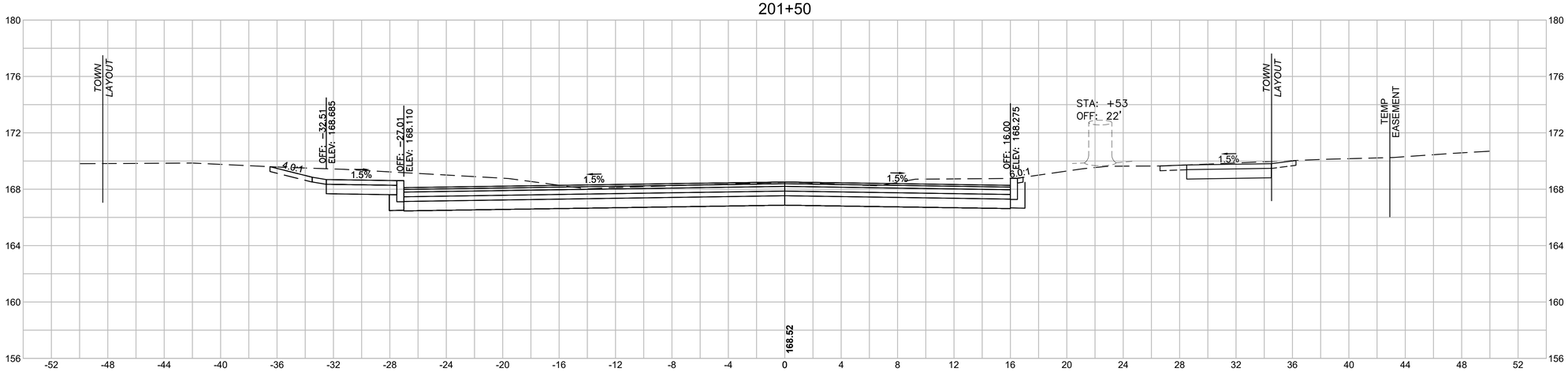
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	151	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

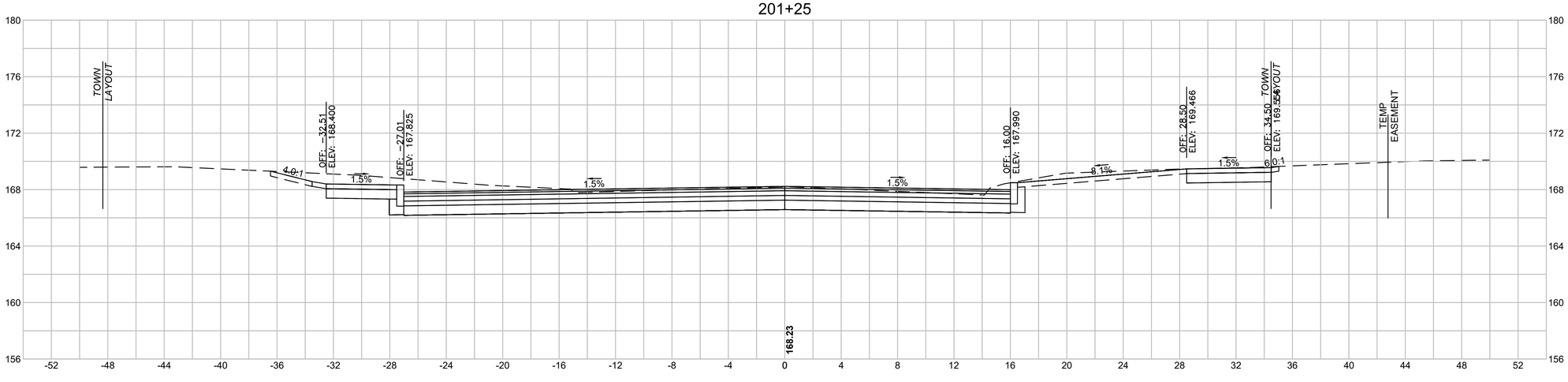
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:53 AM

201+50



Total Volume at Station 201+50.00	
Cut Area	**81.47**
Fill Area	**0.00**
Cut Vol	**84.4**
Fill Vol	**0.0**
Cum Cut Vol	**264.8**
Cum Fill Vol	**0.0**
Net Vol	**264.8**

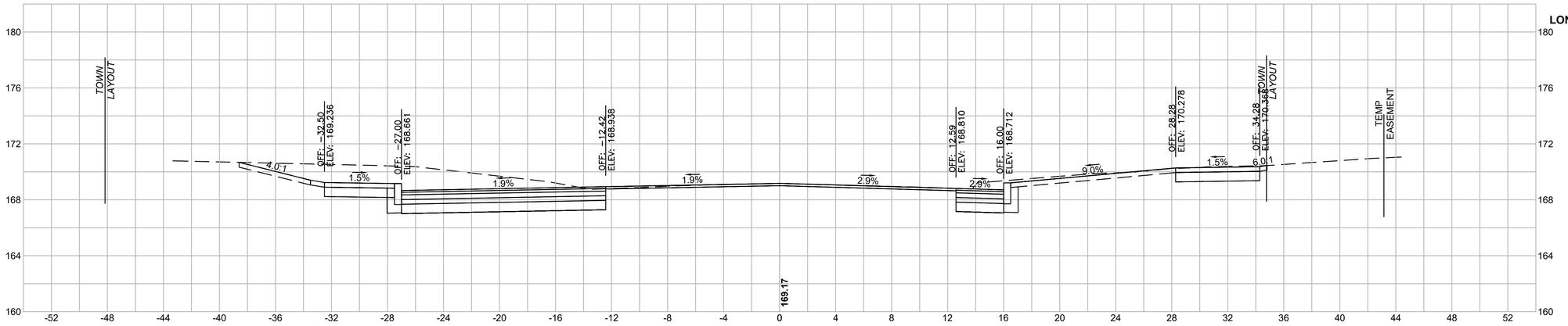
201+25



Total Volume at Station 201+25.00	
Cut Area	**100.73**
Fill Area	**0.00**
Cut Vol	**91.2**
Fill Vol	**0.0**
Cum Cut Vol	**180.4**
Cum Fill Vol	**0.0**
Net Vol	**180.4**

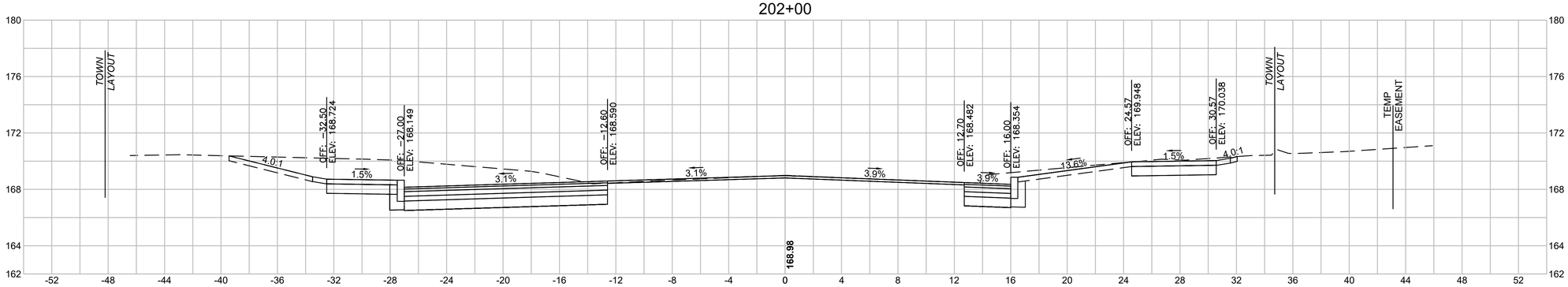
4 0 4 8
SCALE IN FEET

202+25



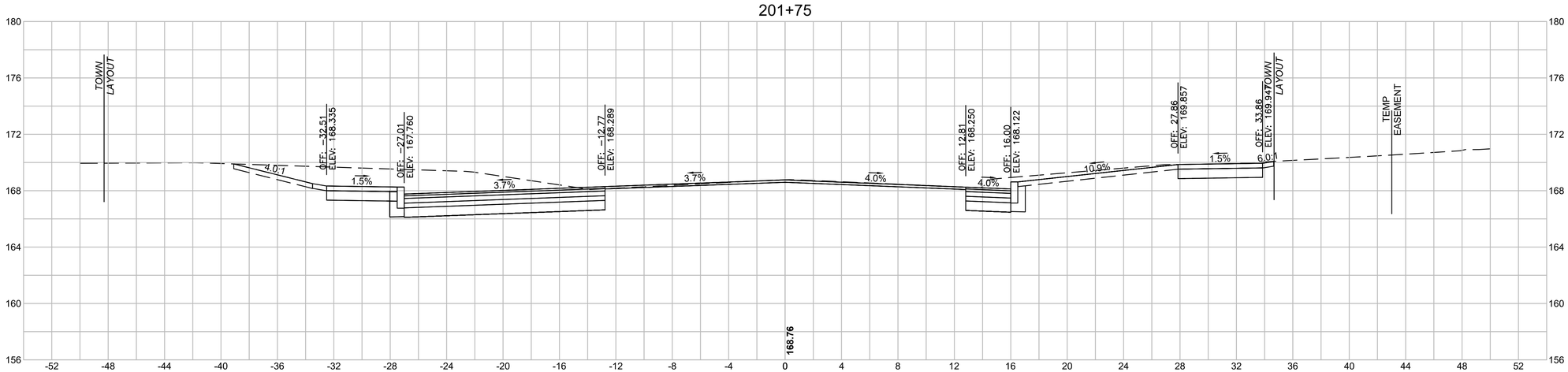
Total Volume at Station 202+25.00	
Cut Area	**78.21**
Fill Area	**0.00**
Cut Vol	**74.3**
Fill Vol	**0.0**
Cum Cut Vol	**487.5**
Cum Fill Vol	**0.0**
Net Vol	**487.5**

202+00



Total Volume at Station 202+00.00	
Cut Area	**82.33**
Fill Area	**0.00**
Cut Vol	**74.4**
Fill Vol	**0.0**
Cum Cut Vol	**413.2**
Cum Fill Vol	**0.0**
Net Vol	**413.2**

201+75



Total Volume at Station 201+75.00	
Cut Area	**78.42**
Fill Area	**0.00**
Cut Vol	**74.0**
Fill Vol	**0.0**
Cum Cut Vol	**338.8**
Cum Fill Vol	**0.0**
Net Vol	**338.8**

4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	152	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:53 AM

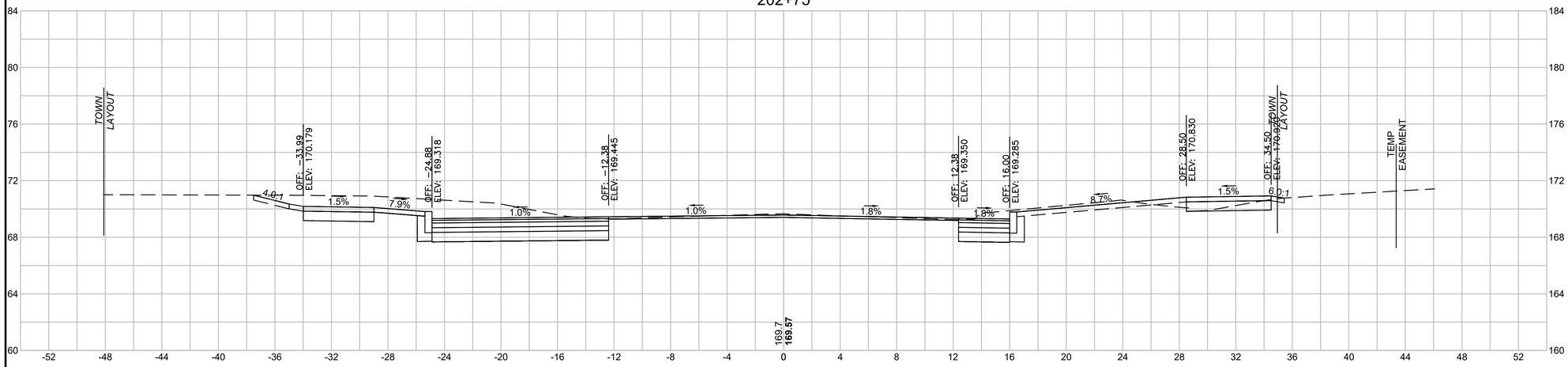
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	153	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

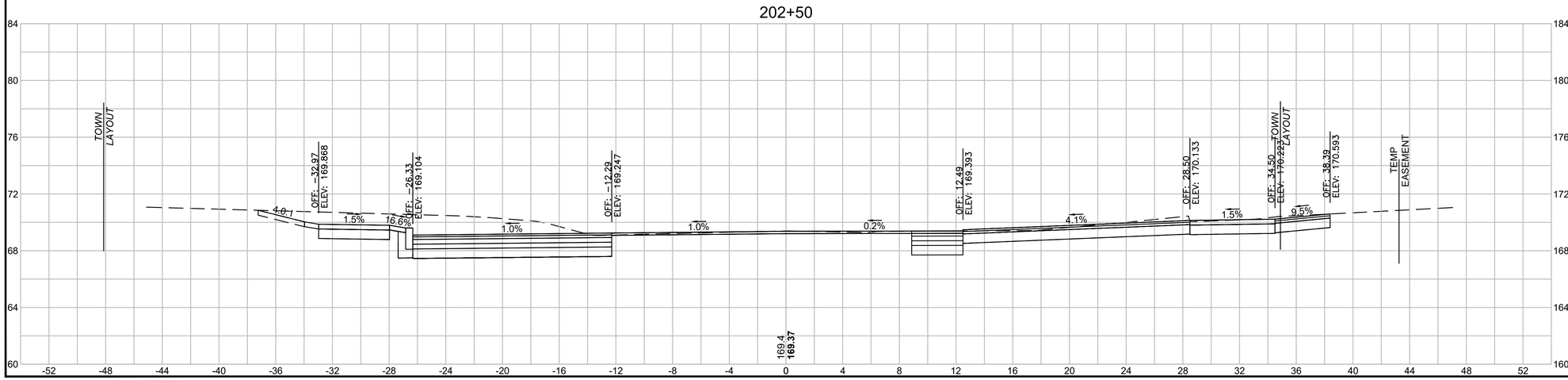
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:53 AM

202+75



Total Volume at Station 202+75.00	
Cut Area	**64.49**
Fill Area	**0.00**
Cut Vol	**65.2**
Fill Vol	**0.0**
Cum Cut Vol	**624.3**
Cum Fill Vol	**0.0**
Net Vol	**624.3**

202+50



Total Volume at Station 202+50.00	
Cut Area	**76.35**
Fill Area	**0.00**
Cut Vol	**71.6**
Fill Vol	**0.0**
Cum Cut Vol	**559.1**
Cum Fill Vol	**0.0**
Net Vol	**559.1**

4 0 4 8
SCALE IN FEET

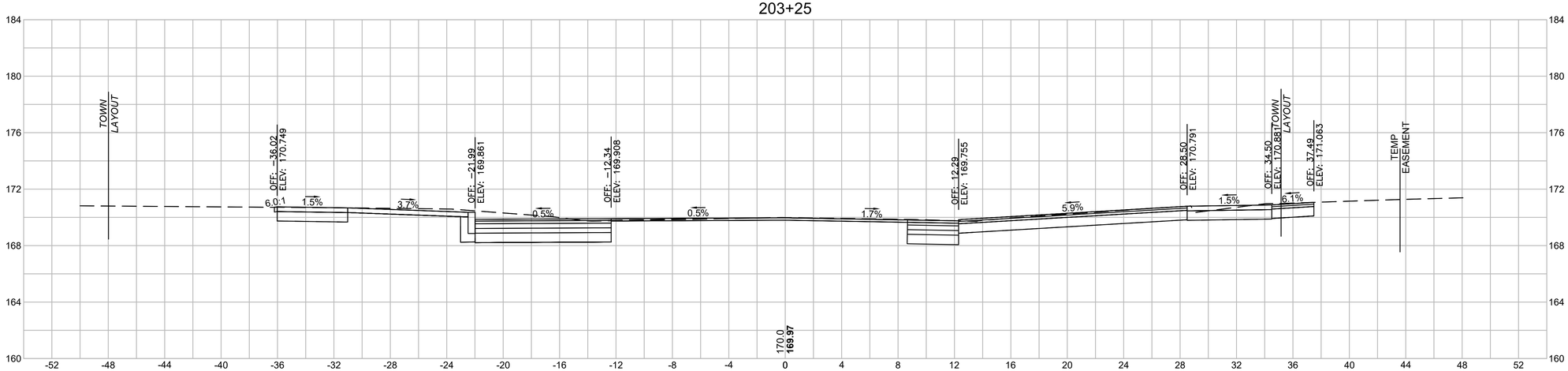
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	154	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

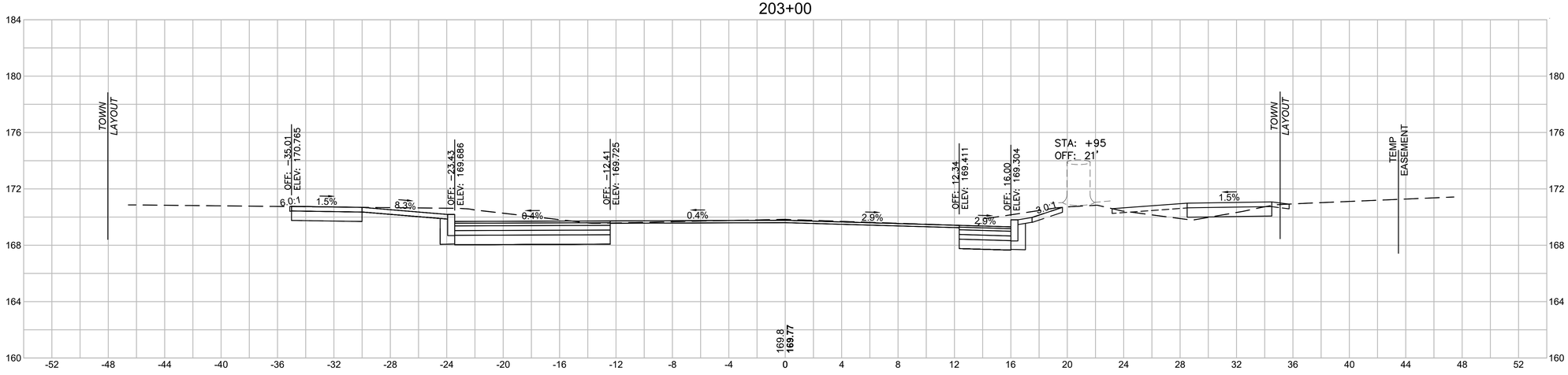
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:53 AM

203+25



Total Volume at Station 203+25.00	
Cut Area	**52.65**
Fill Area	**0.00**
Cut Vol	**53.0**
Fill Vol	**0.0**
Cum Cut Vol	**735.9**
Cum Fill Vol	**0.0**
Net Vol	**735.9**

203+00



Total Volume at Station 203+00.00	
Cut Area	**61.92**
Fill Area	**0.00**
Cut Vol	**58.5**
Fill Vol	**0.0**
Cum Cut Vol	**682.8**
Cum Fill Vol	**0.0**
Net Vol	**682.8**

4 0 4 8
SCALE IN FEET

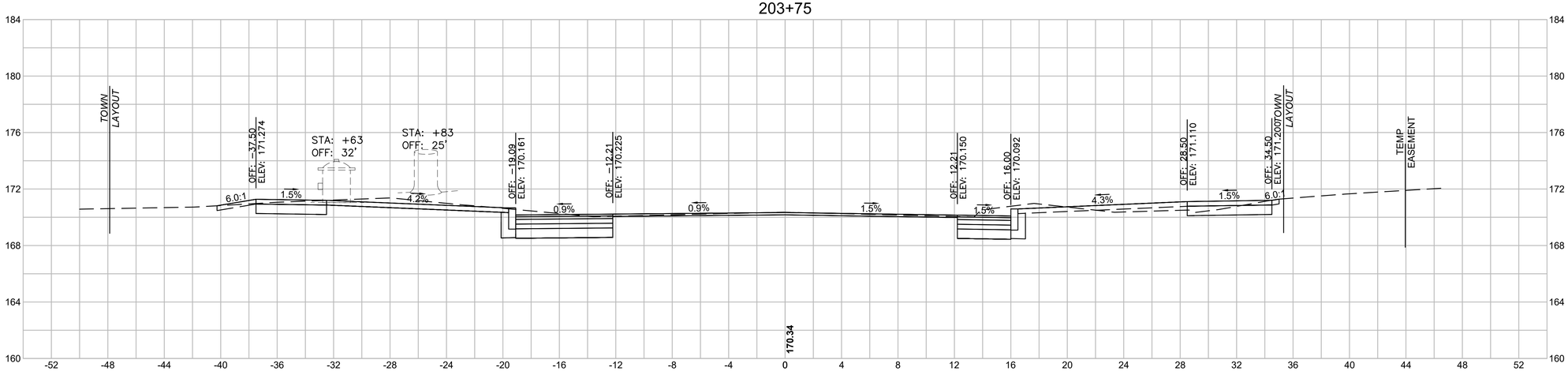
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	155	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

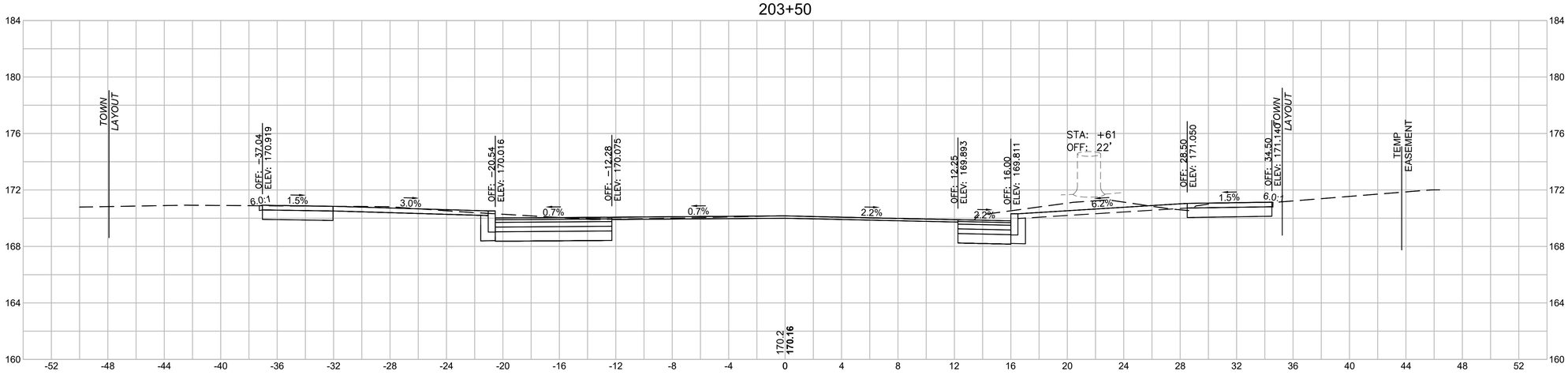
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:53 AM

203+75



Total Volume at Station 203+75.00	
Cut Area	**42.36**
Fill Area	**0.00**
Cut Vol	**42.2**
Fill Vol	**0.0**
Cum Cut Vol	**825.0**
Cum Fill Vol	**0.0**
Net Vol	**825.0**

203+50



Total Volume at Station 203+50.00	
Cut Area	**48.81**
Fill Area	**0.00**
Cut Vol	**47.0**
Fill Vol	**0.0**
Cum Cut Vol	**782.8**
Cum Fill Vol	**0.0**
Net Vol	**782.8**

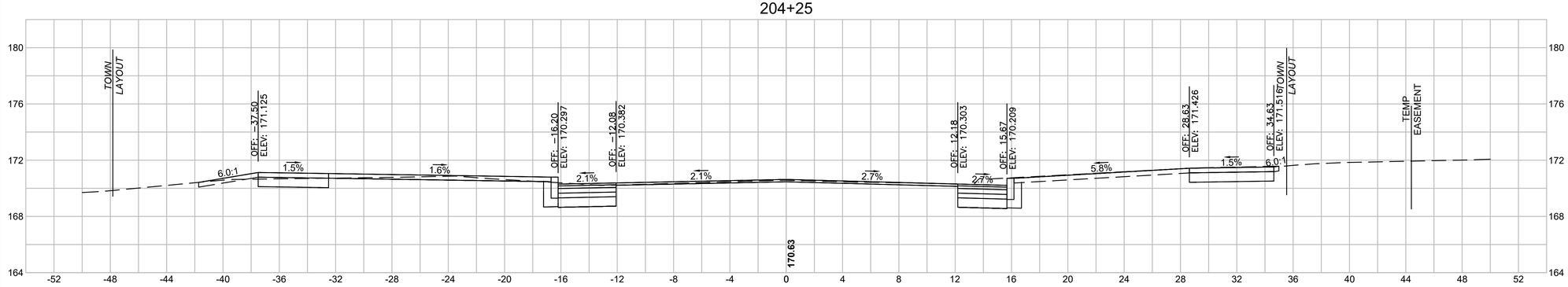
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	156	198
PROJECT FILE NO.	608881		

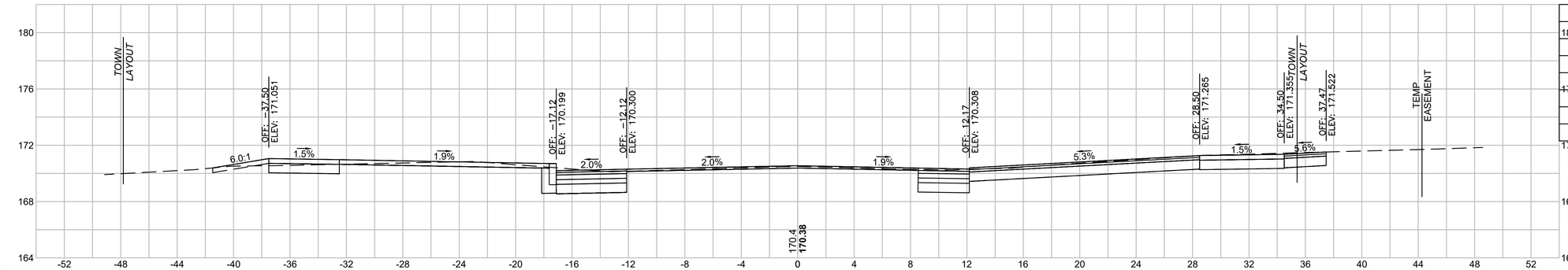
CROSS SECTIONS-FOREST GLEN RD

204+25



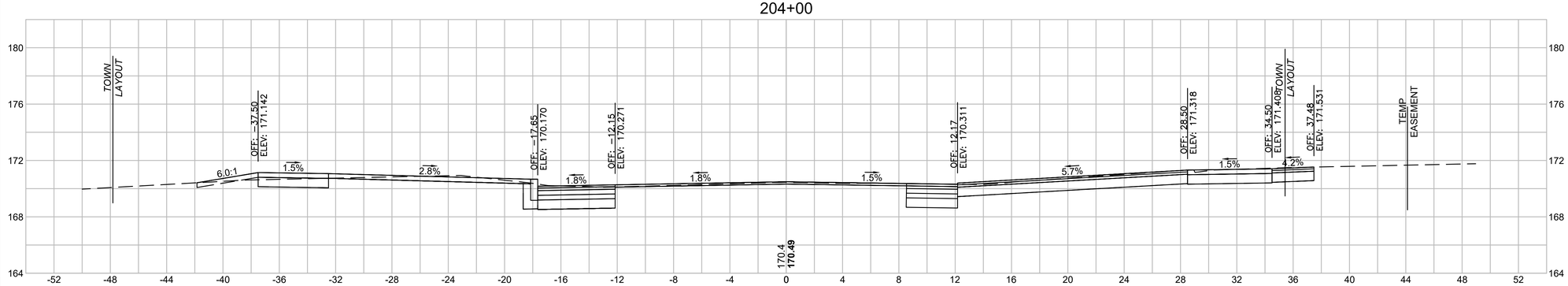
Total Volume at Station 204+25.00	
Cut Area	**34.63**
Fill Area	**0.00**
Cut Vol	**22.0**
Fill Vol	**0.0**
Cum Cut Vol	**899.1**
Cum Fill Vol	**0.0**
Net Vol	**899.1**

204+09.11



Total Volume at Station 204+09.11	
Cut Area	**40.10**
Fill Area	**0.00**
Cut Vol	**13.6**
Fill Vol	**0.0**
Cum Cut Vol	**877.1**
Cum Fill Vol	**0.0**
Net Vol	**877.1**

204+00



Total Volume at Station 204+00.00	
Cut Area	**40.63**
Fill Area	**0.00**
Cut Vol	**38.4**
Fill Vol	**0.0**
Cum Cut Vol	**863.5**
Cum Fill Vol	**0.0**
Net Vol	**863.5**

4 0 4 8
SCALE IN FEET

20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:53 AM

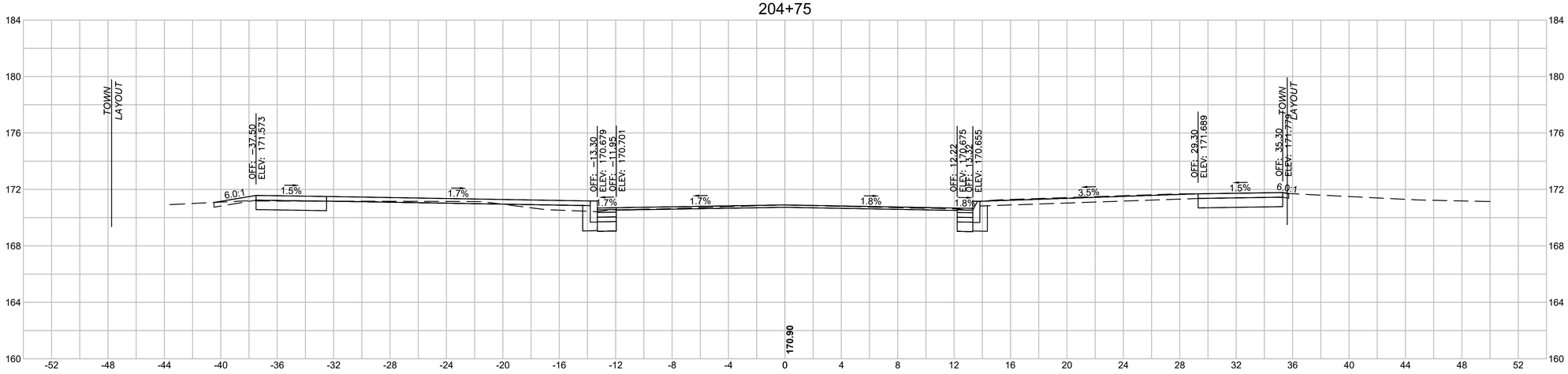
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	157	198
PROJECT FILE NO.	608881		

CROSS SECTIONS-FOREST GLEN RD

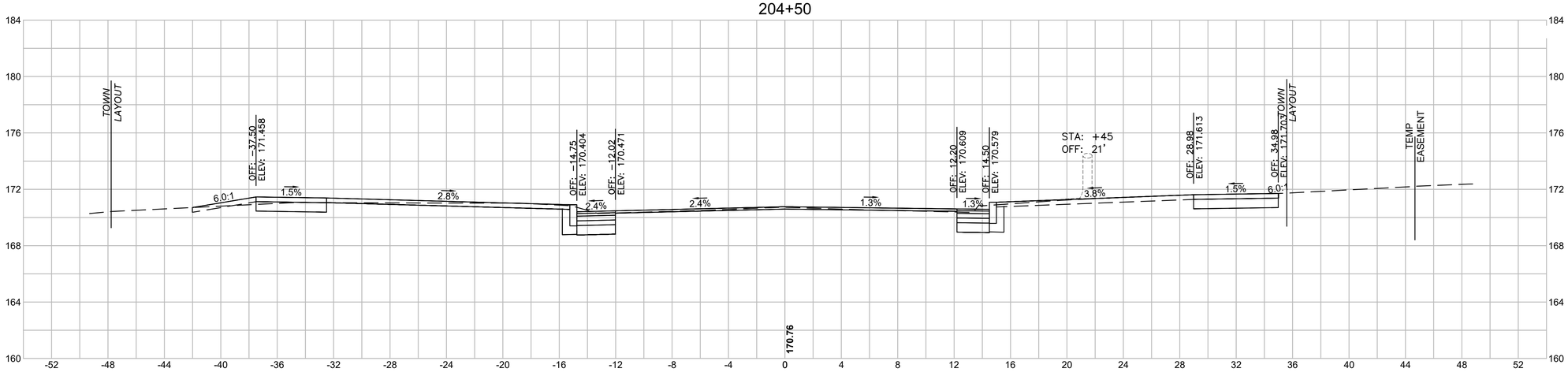
20170404A10_XSEC01_LONGMEADOW_LAYOUTS.DWG Plotted on 24-Jun-2025 11:54 AM

204+75



Total Volume at Station 204+75.00	
Cut Area	**23.64**
Fill Area	**0.00**
Cut Vol	**24.4**
Fill Vol	**0.1**
Cum Cut Vol	**953.0**
Cum Fill Vol	**0.1**
Net Vol	**952.8**

204+50



Total Volume at Station 204+50.00	
Cut Area	**29.08**
Fill Area	**0.14**
Cut Vol	**29.5**
Fill Vol	**0.1**
Cum Cut Vol	**928.6**
Cum Fill Vol	**0.1**
Net Vol	**928.5**

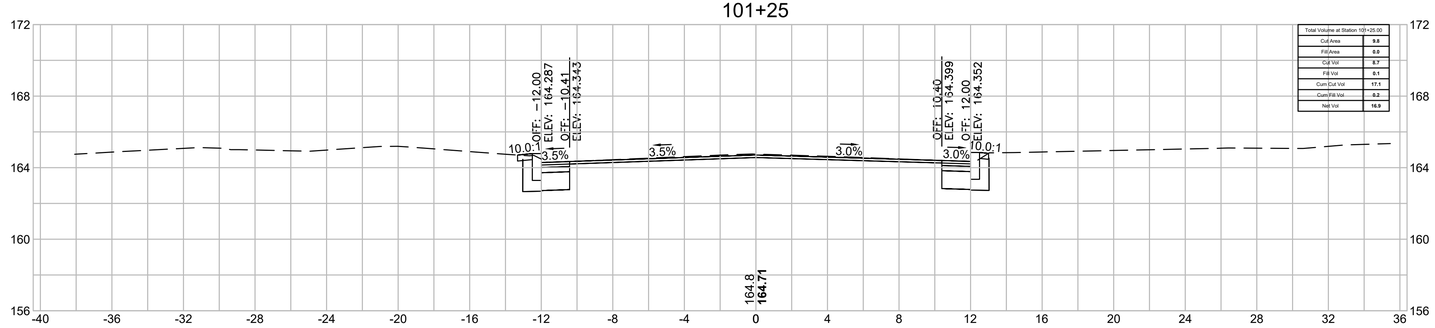
4 0 4 8
SCALE IN FEET

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

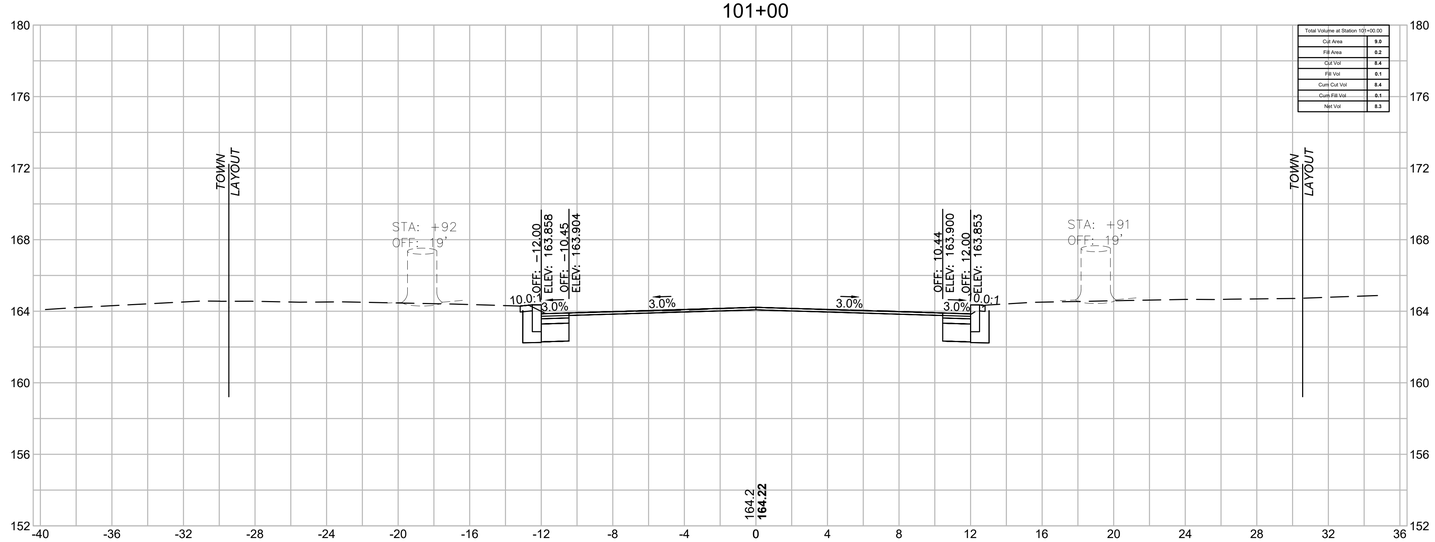
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	158	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - ENGLEWOOD ROAD

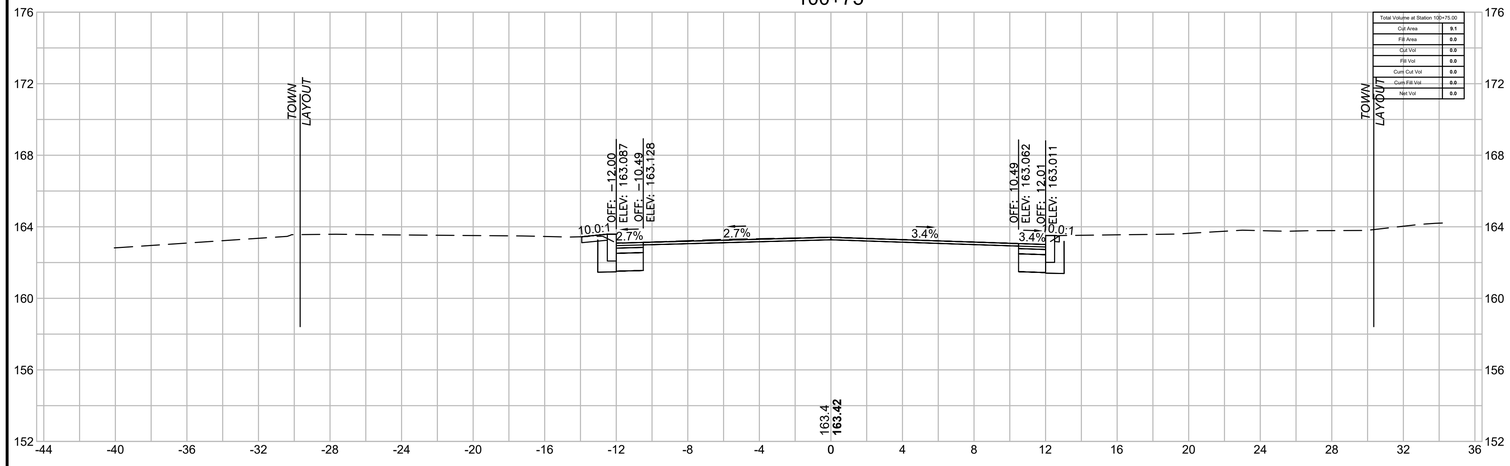
101+25



101+00



100+75



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

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:42 AM

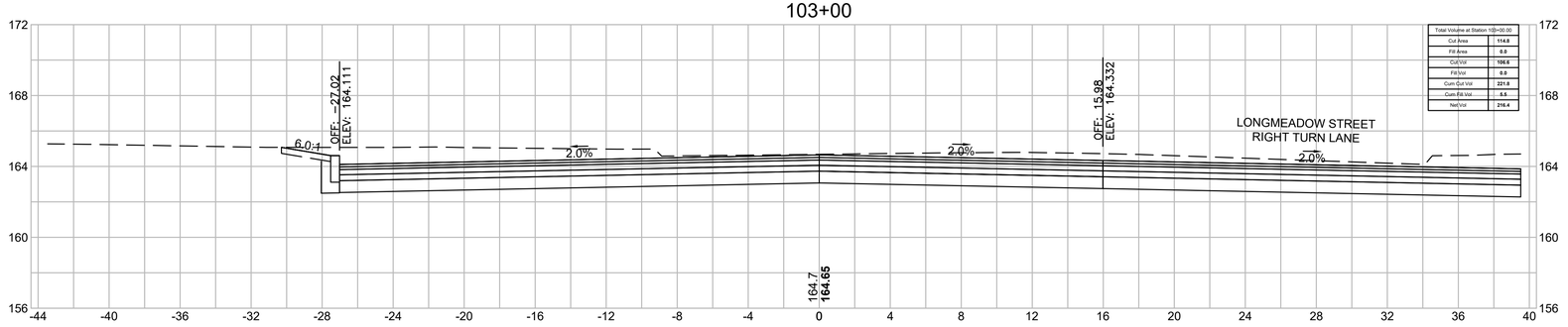
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	159	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - CONVERSE STREET

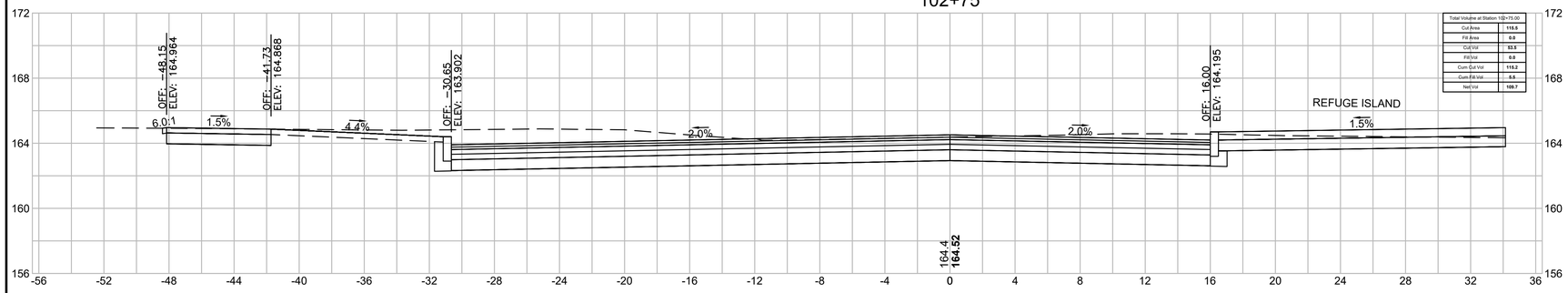
Plotted on 18-Jun-2025 9:43 AM
20170404A10_XSEC01_CONVERSE.DWG

103+00



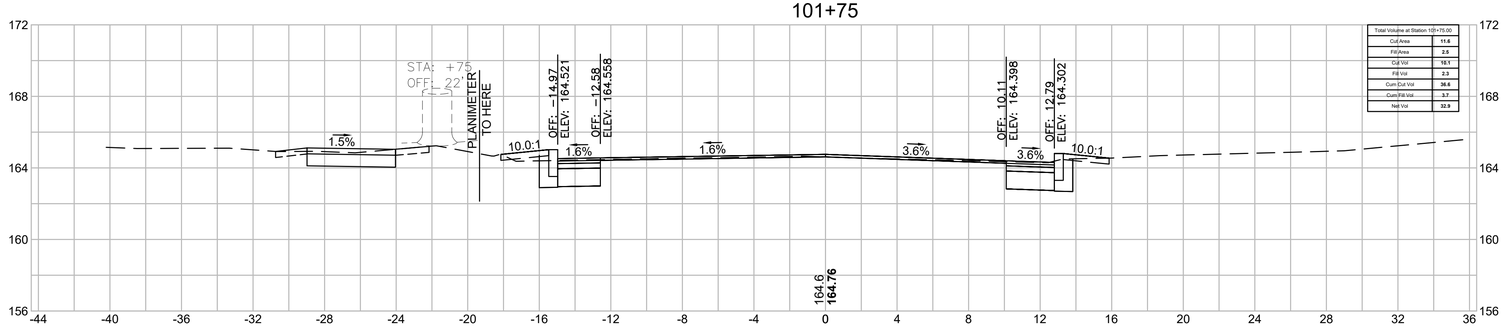
Total Volume at Station 103+00.00	
Cut Area	114.8
Fill Area	0.0
Cut Vol	106.6
Fill Vol	0.0
Cum Cut Vol	221.8
Cum Fill Vol	5.5
Net Vol	216.4

102+75



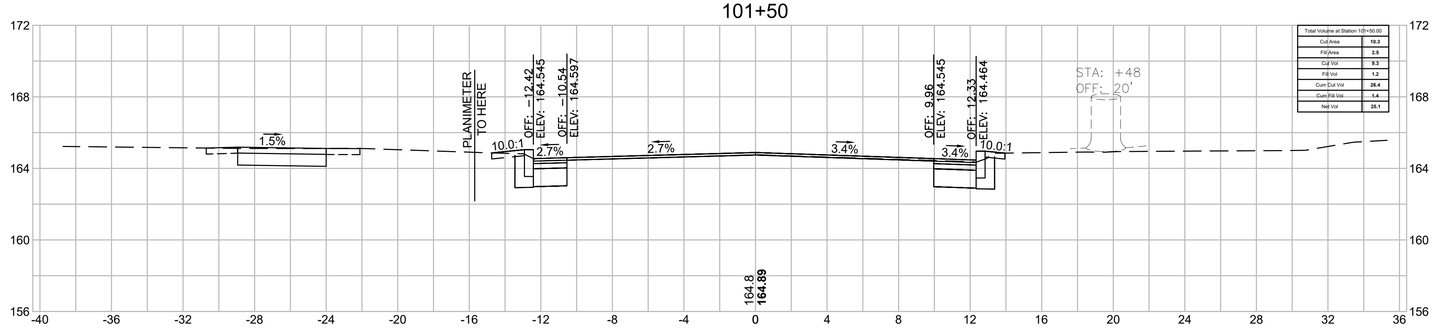
Total Volume at Station 102+75.00	
Cut Area	115.5
Fill Area	0.0
Cut Vol	53.5
Fill Vol	0.0
Cum Cut Vol	115.2
Cum Fill Vol	5.5
Net Vol	109.7

101+75



Total Volume at Station 101+75.00	
Cut Area	11.6
Fill Area	2.5
Cut Vol	10.1
Fill Vol	2.3
Cum Cut Vol	36.6
Cum Fill Vol	3.7
Net Vol	32.9

101+50



Total Volume at Station 101+50.00	
Cut Area	10.3
Fill Area	2.5
Cut Vol	9.3
Fill Vol	1.2
Cum Cut Vol	26.4
Cum Fill Vol	1.4
Net Vol	25.1

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

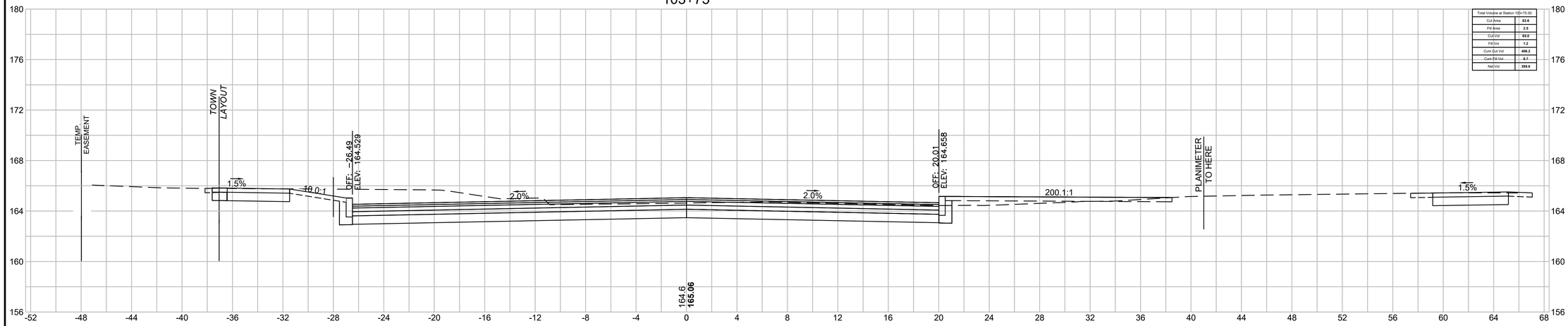
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	160	198
	PROJECT FILE NO. 608881		

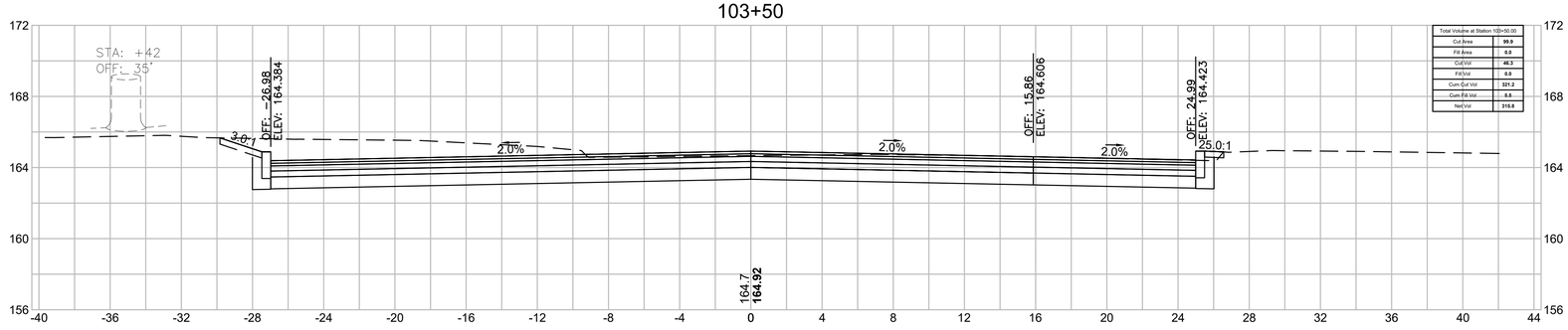
CROSS SECTIONS - CONVERSE STREET

Plotted on 18-Jun-2025 9:44 AM
20170404A10_XSEC01_CONVERSE.DWG

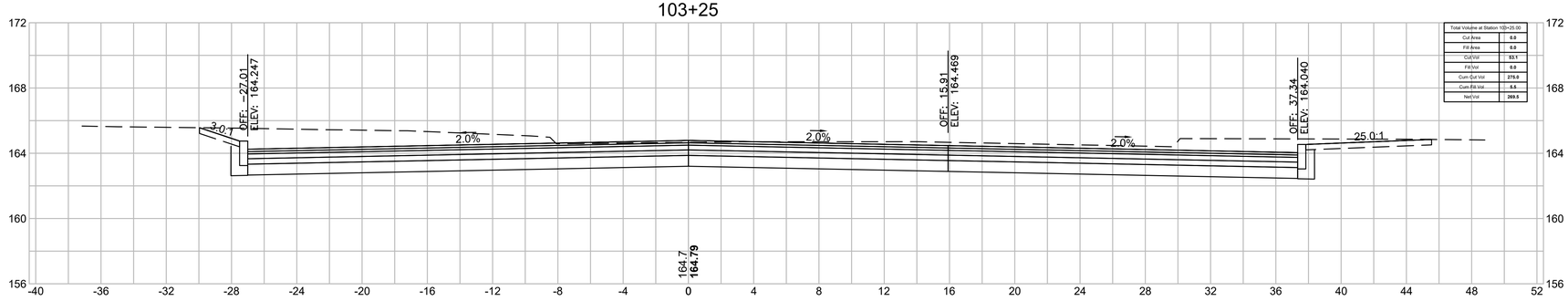
103+75



103+50

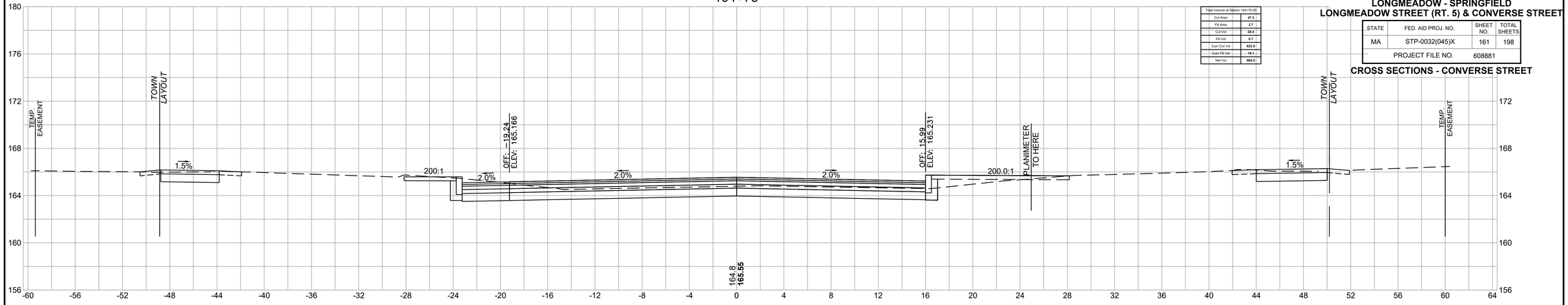


103+25



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

104+75



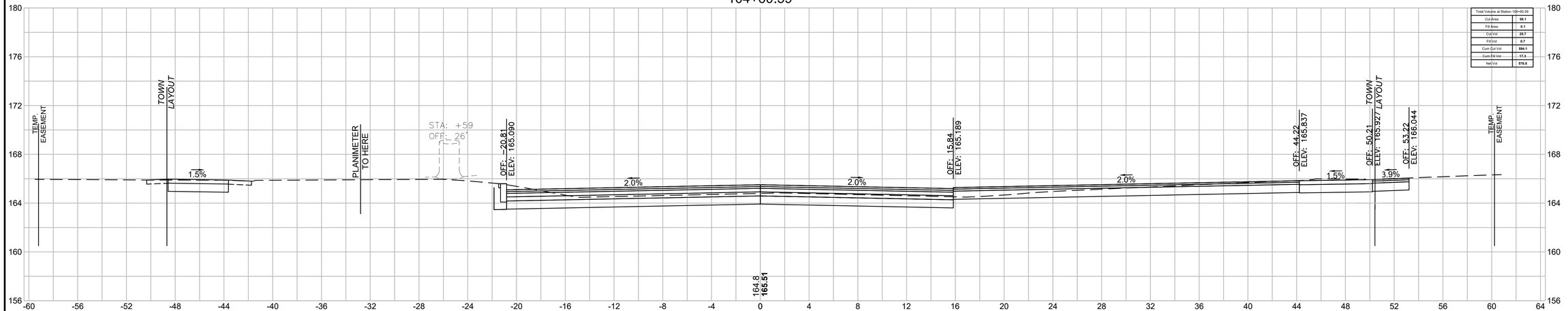
Total Volume at Station 104+75.00	
Cut Area	47.3
Fill Area	2.7
Cut Vol	29.4
Fill Vol	0.7
Cum Cut Vol	622.5
Cum Fill Vol	16.1
Net Vol	604.5

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	161	198
PROJECT FILE NO.	608881		

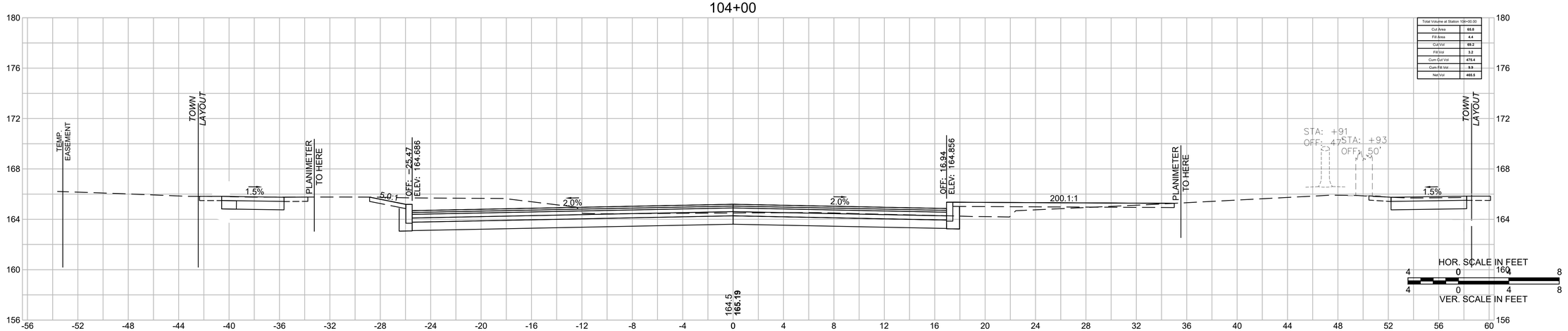
CROSS SECTIONS - CONVERSE STREET

104+60.59



Total Volume at Station 104+60.59	
Cut Area	59.1
Fill Area	0.1
Cut Vol	20.7
Fill Vol	0.7
Cum Cut Vol	594.1
Cum Fill Vol	17.3
Net Vol	576.8

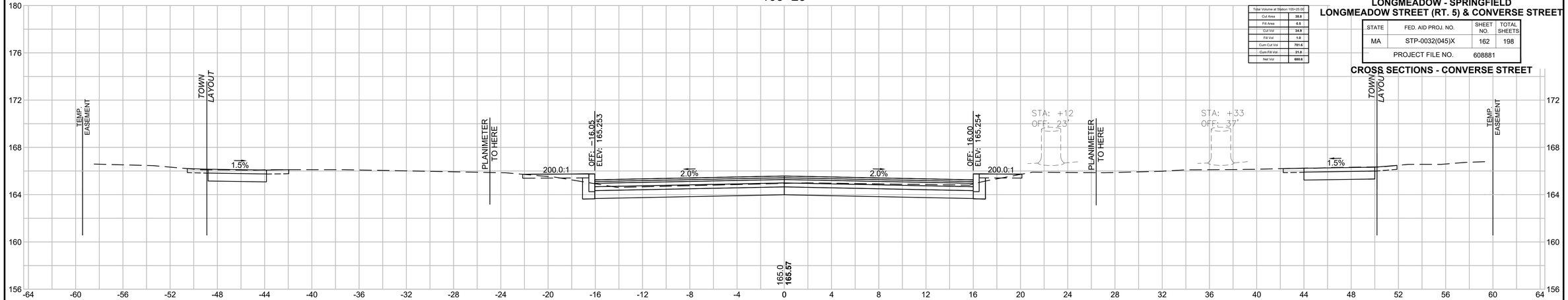
104+00



Total Volume at Station 104+00.00	
Cut Area	60.8
Fill Area	4.4
Cut Vol	60.2
Fill Vol	3.2
Cum Cut Vol	479.4
Cum Fill Vol	9.9
Net Vol	469.5

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:45 AM

105+25



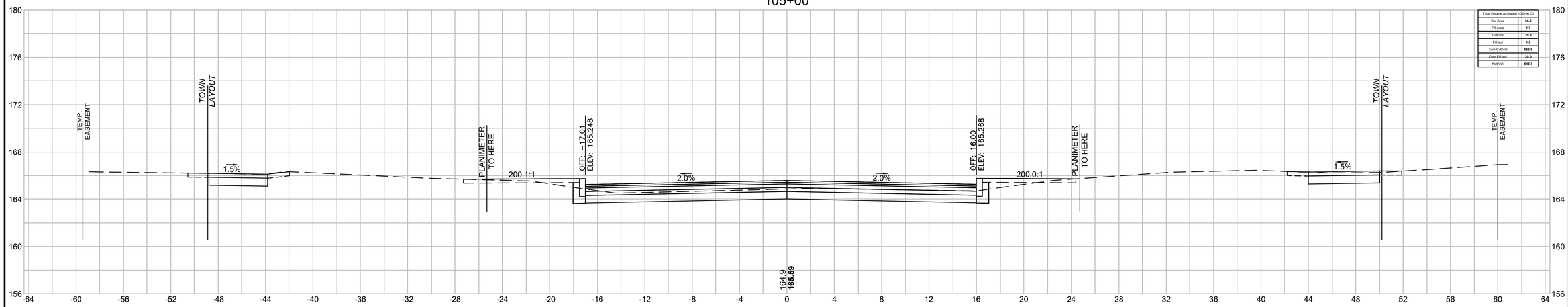
Total Volume at Station 105+25.00	
Cut Area	35.8
Fill Area	0.5
Cut Vol	34.9
Fill Vol	1.0
Cum Cut Vol	701.6
Cum Fill Vol	21.0
Net Vol	680.6

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	162	198
	PROJECT FILE NO. 608881		

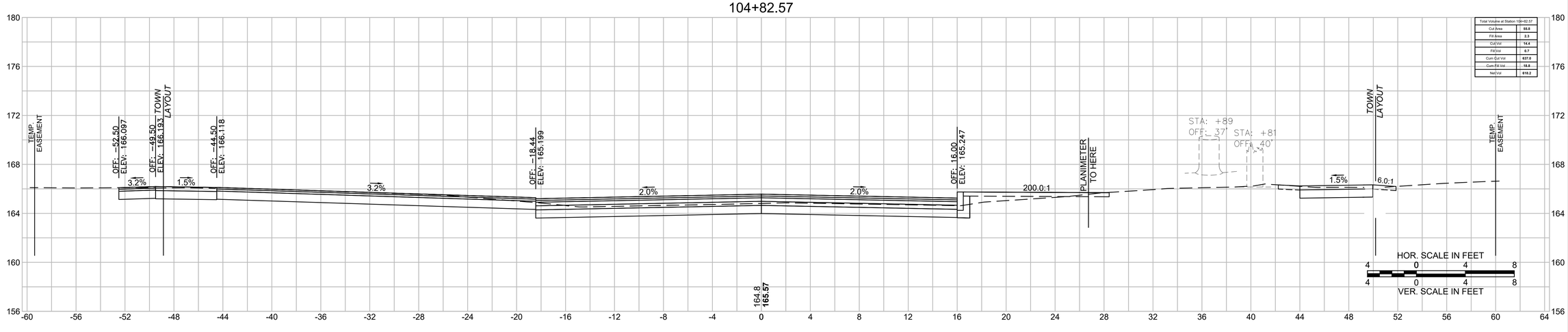
CROSS SECTIONS - CONVERSE STREET

105+00



Total Volume at Station 105+00.00	
Cut Area	36.5
Fill Area	1.7
Cut Vol	20.8
Fill Vol	1.3
Cum Cut Vol	666.8
Cum Fill Vol	20.0
Net Vol	646.7

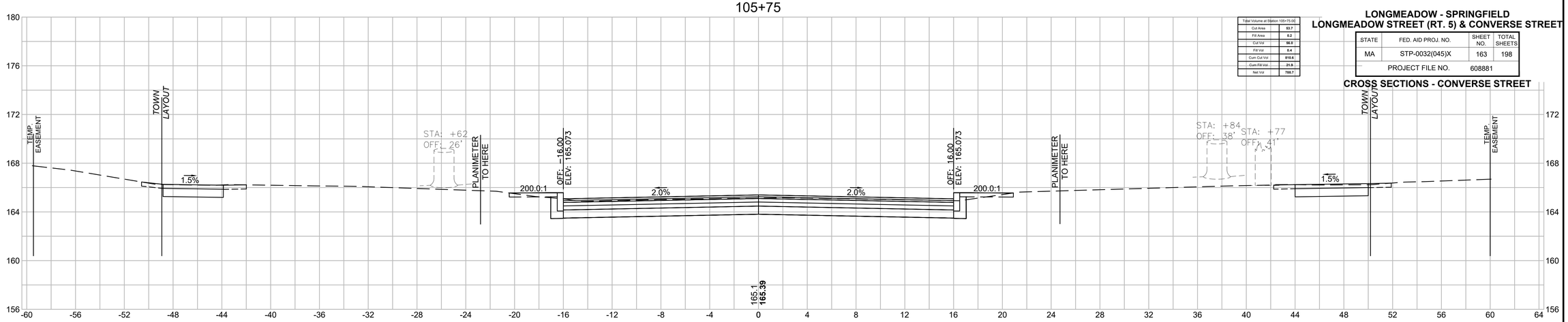
104+82.57



Total Volume at Station 104+82.57	
Cut Area	55.5
Fill Area	2.3
Cut Vol	14.4
Fill Vol	0.7
Cum Cut Vol	537.5
Cum Fill Vol	18.8
Net Vol	518.2

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:46 AM

105+75



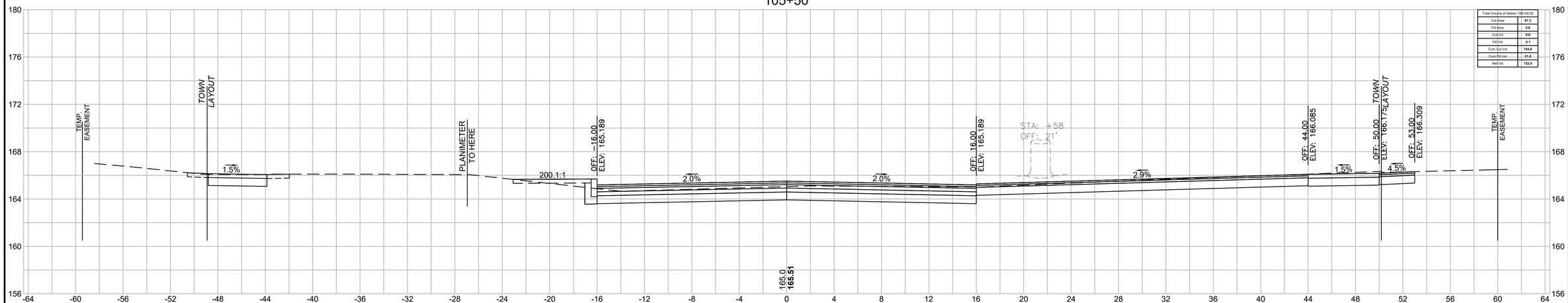
Total Volume at Station 105+75.00	
Cut Area	53.7
Fill Area	0.2
Cut Vol	56.0
Fill Vol	0.4
Cum Cut Vol	810.6
Cum Fill Vol	21.5
Net Vol	788.7

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	163	198
PROJECT FILE NO.	608881		

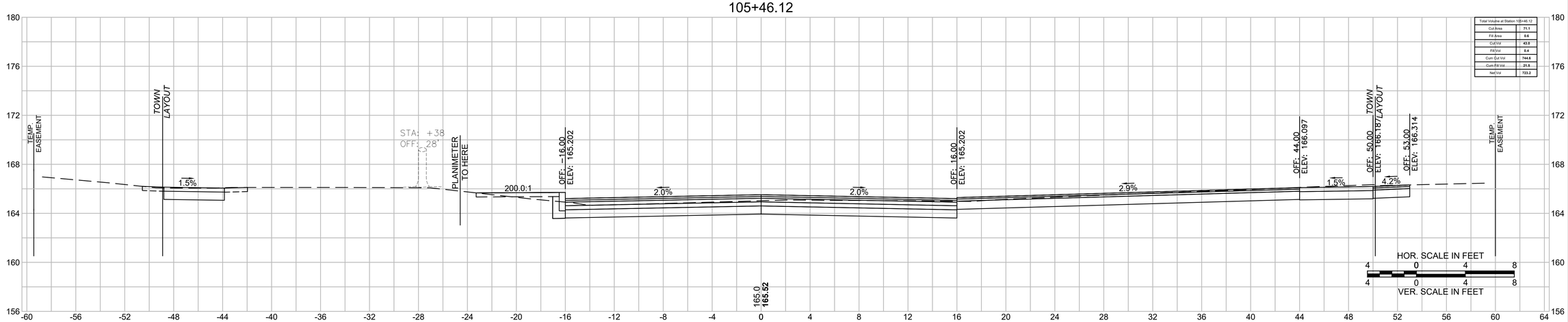
CROSS SECTIONS - CONVERSE STREET

105+50



Total Volume at Station 105+50.00	
Cut Area	87.3
Fill Area	0.6
Cut Vol	0.9
Fill Vol	0.1
Cum Cut Vol	764.6
Cum Fill Vol	21.5
Net Vol	733.0

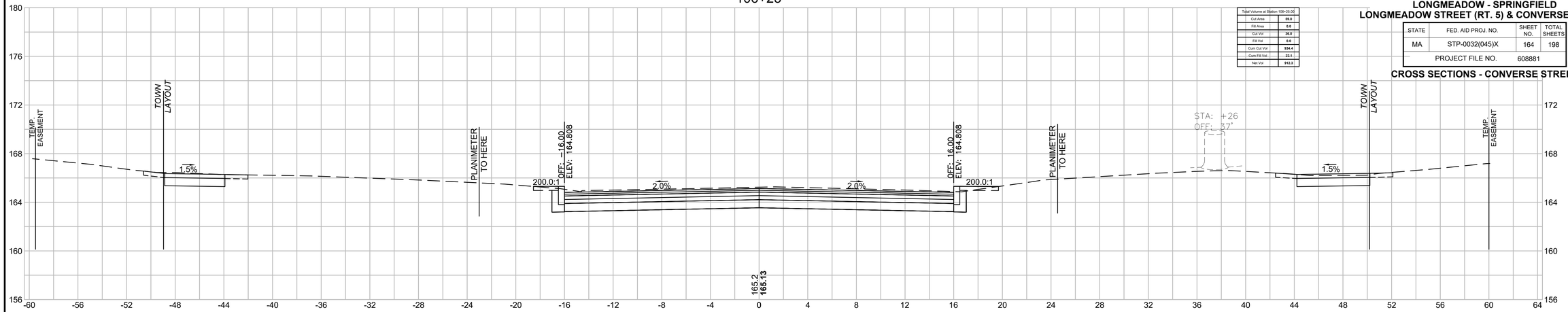
105+46.12



Total Volume at Station 105+46.12	
Cut Area	71.1
Fill Area	0.6
Cut Vol	43.0
Fill Vol	0.4
Cum Cut Vol	744.6
Cum Fill Vol	21.5
Net Vol	723.2

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:48 AM

106+25



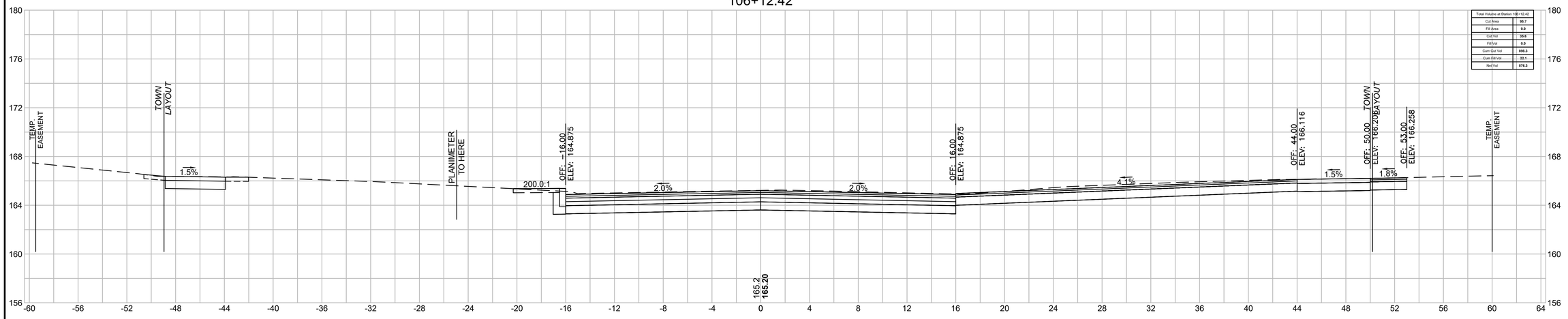
Total Volume at Station 106+25.00	
Cut Area	89.0
Fill Area	0.0
Cut Vol	36.0
Fill Vol	0.0
Cum Cut Vol	934.4
Cum Fill Vol	22.1
Net Vol	912.3

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	164	198
	PROJECT FILE NO. 608881		

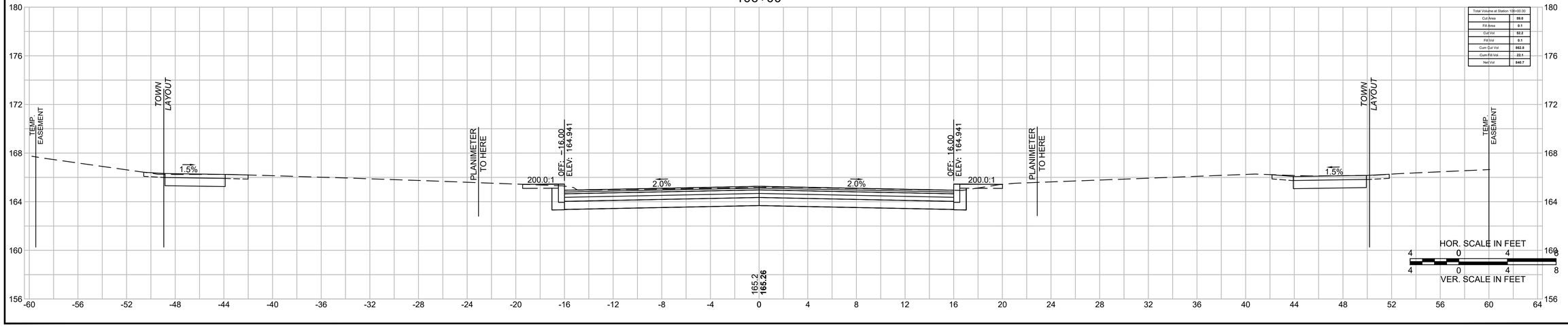
CROSS SECTIONS - CONVERSE STREET

106+12.42



Total Volume at Station 106+12.42	
Cut Area	95.7
Fill Area	0.0
Cut Vol	35.6
Fill Vol	0.0
Cum Cut Vol	898.3
Cum Fill Vol	22.1
Net Vol	876.3

106+00



Total Volume at Station 106+00.00	
Cut Area	89.0
Fill Area	0.1
Cut Vol	52.2
Fill Vol	0.1
Cum Cut Vol	862.8
Cum Fill Vol	22.1
Net Vol	840.7

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:49 AM

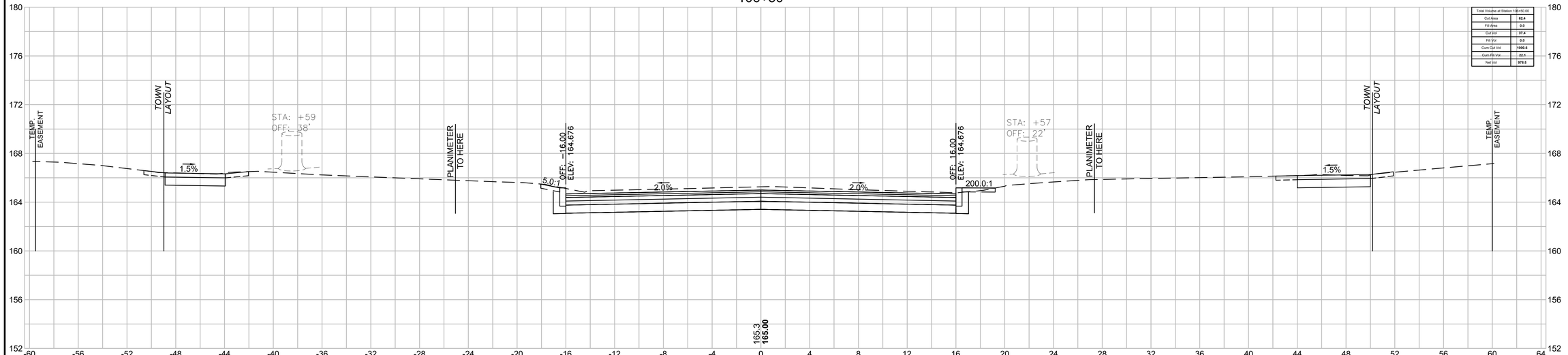
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	165	198
	PROJECT FILE NO.	608881	

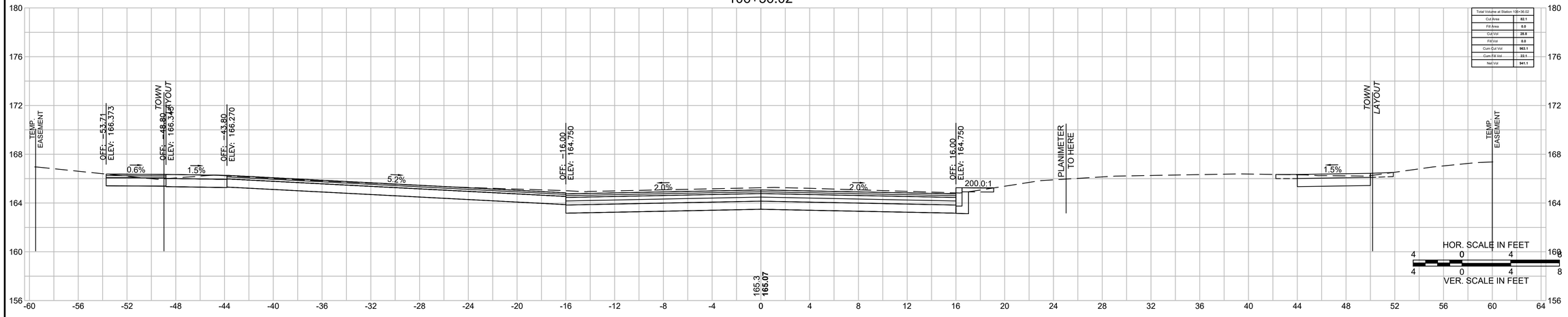
CROSS SECTIONS - CONVERSE STREET

Plotted on 18-Jun-2025 9:49 AM
20170404A10_XSEC01_CONVERSE.DWG

106+50



106+36.02



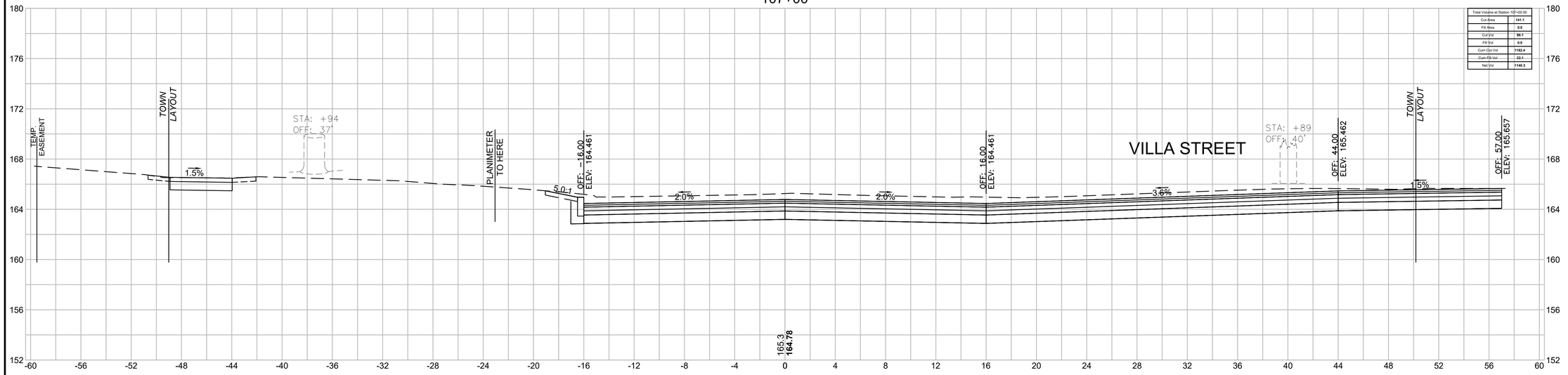
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	166	198
	PROJECT FILE NO. 608881		

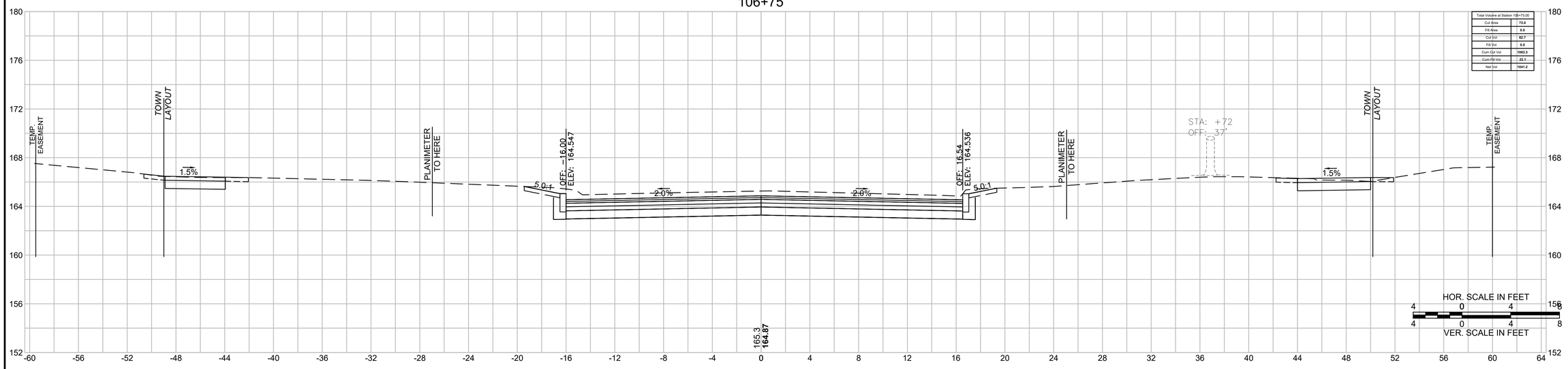
CROSS SECTIONS - CONVERSE STREET

Plotted on 18-Jun-2025 9:50 AM
20170404A10_XSEC01_CONVERSE.DWG

107+00



106+75



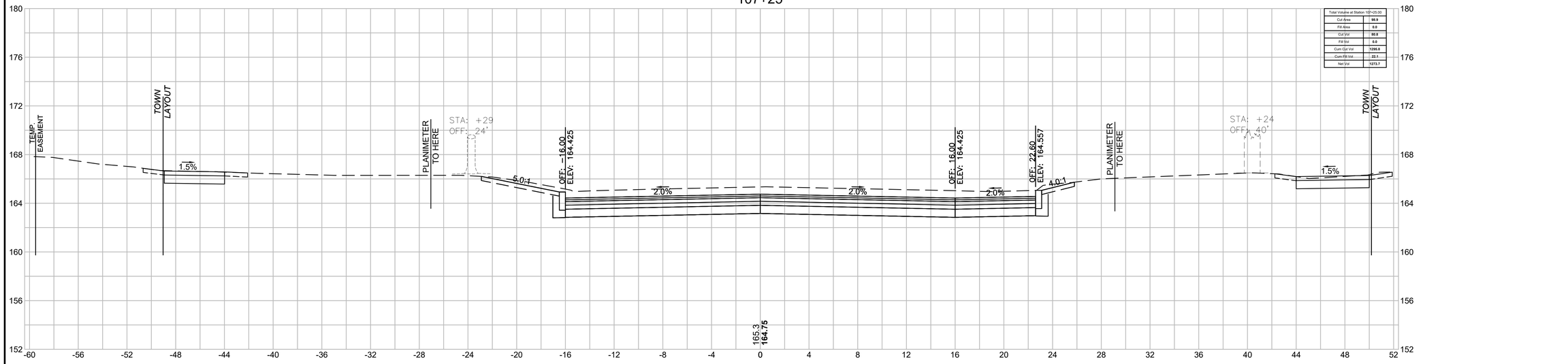
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	167	198
	PROJECT FILE NO. 608881		

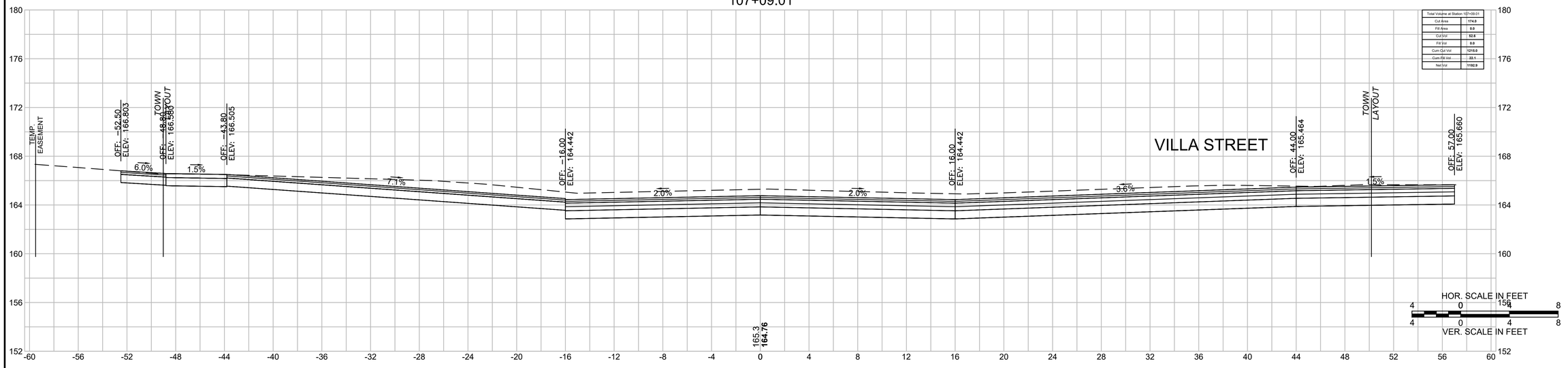
CROSS SECTIONS - CONVERSE STREET

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:50 AM

107+25



107+09.01

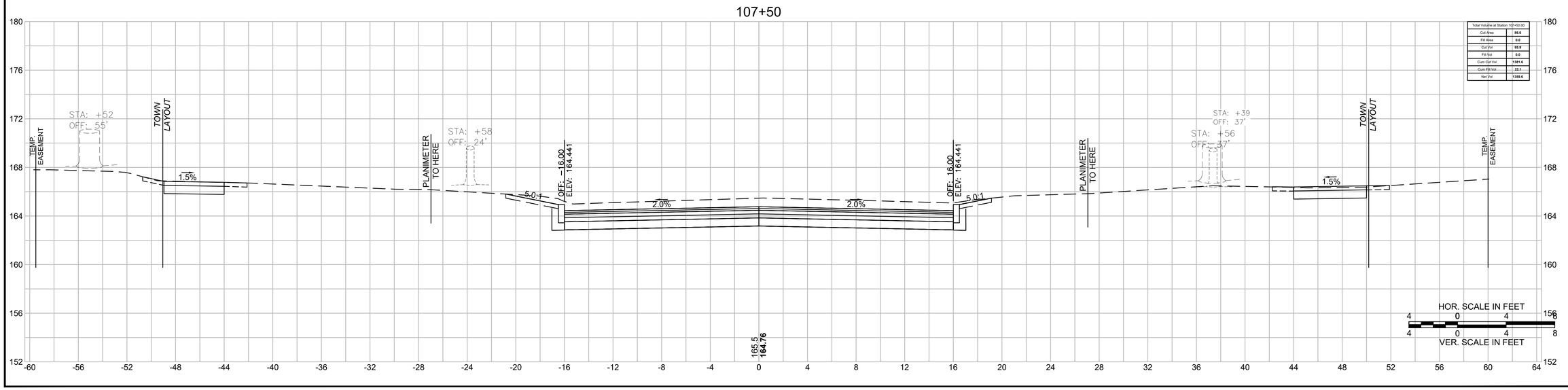


LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	168	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - CONVERSE STREET

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:51 AM



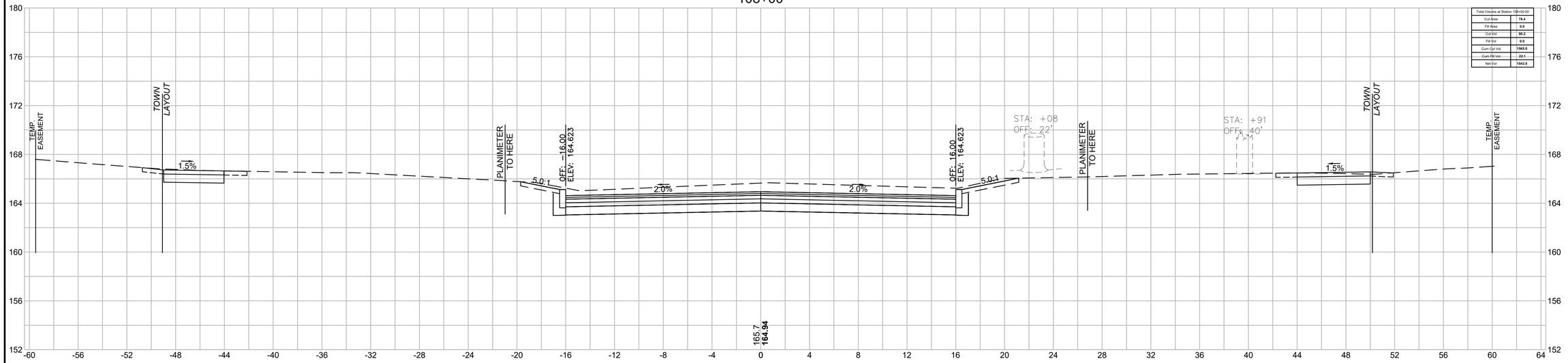
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	169	198
	PROJECT FILE NO.	608881	

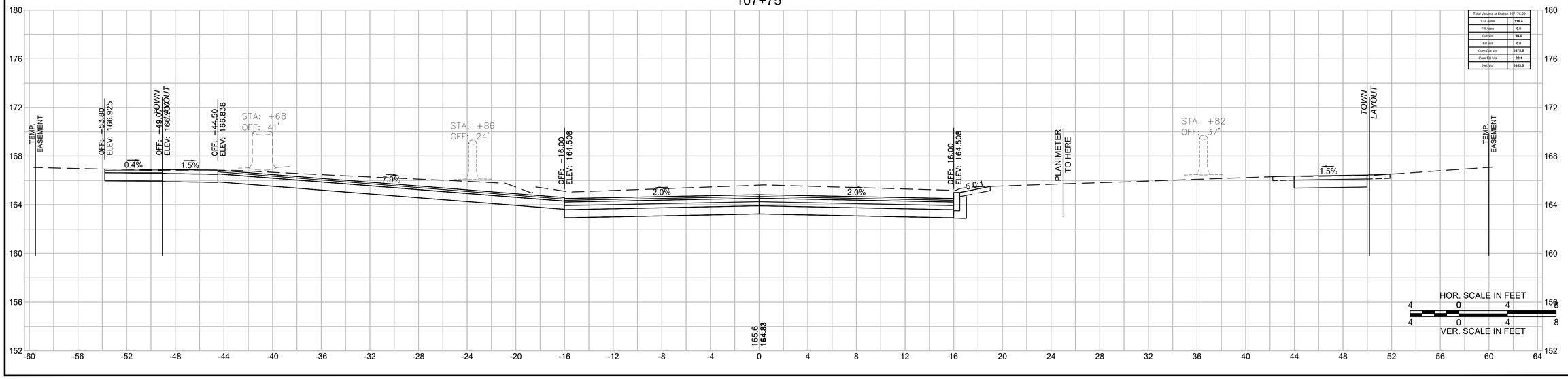
CROSS SECTIONS - CONVERSE STREET

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:51 AM

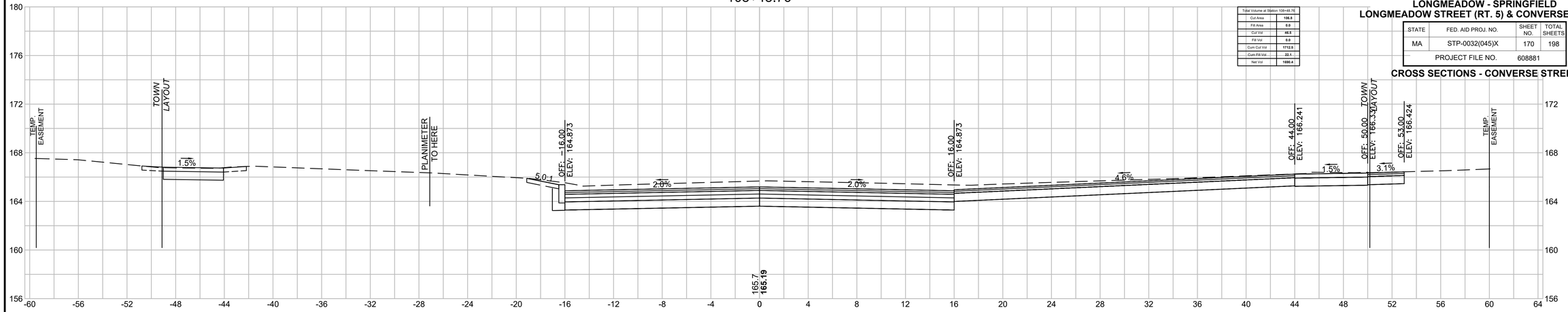
108+00



107+75



108+48.76



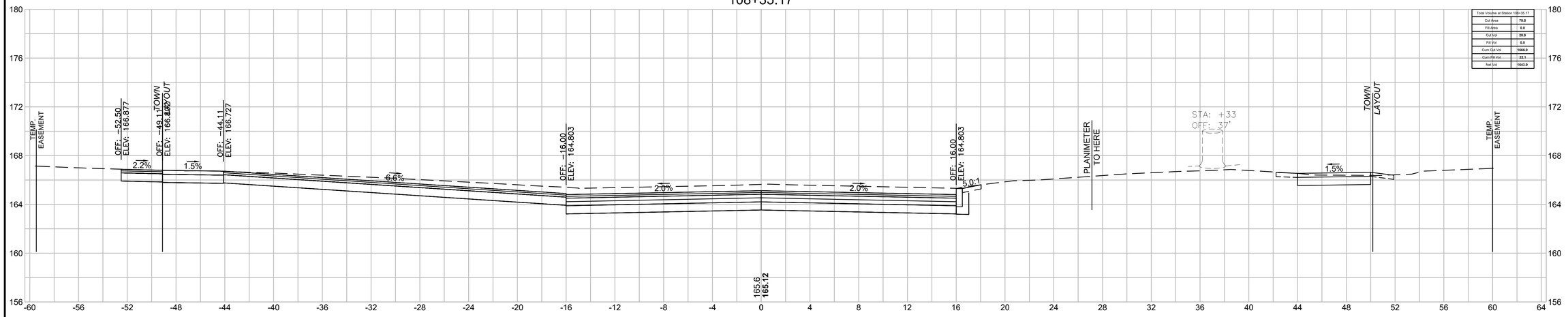
Total Volume at Station 108+48.76	
Cut Area	156.8
Fill Area	0.0
Cut Vol	46.5
Fill Vol	0.0
Cum Cut Vol	1712.5
Cum Fill Vol	22.1
Net Vol	1690.4

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	170	198
	PROJECT FILE NO. 608881		

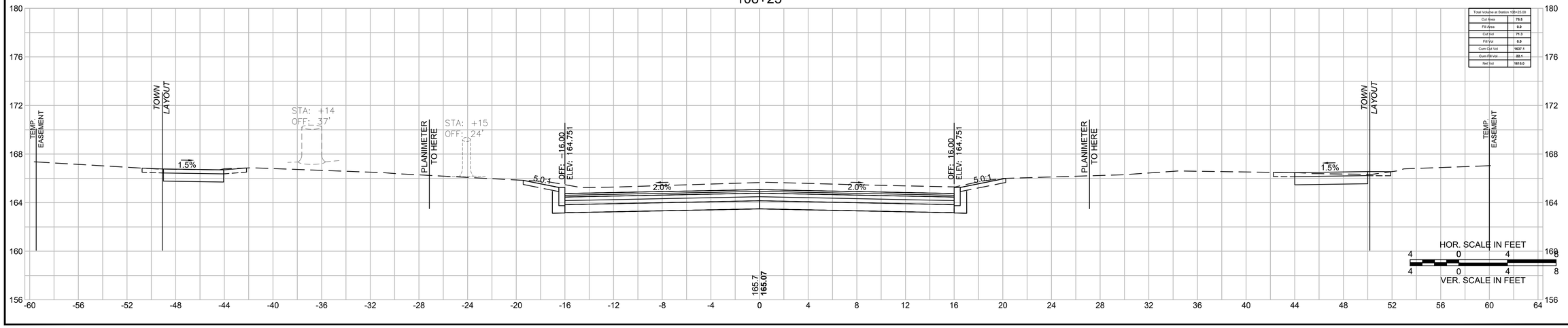
CROSS SECTIONS - CONVERSE STREET

108+35.17



Total Volume at Station 108+35.17	
Cut Area	78.8
Fill Area	0.0
Cut Vol	28.9
Fill Vol	0.0
Cum Cut Vol	1666.0
Cum Fill Vol	22.1
Net Vol	1643.9

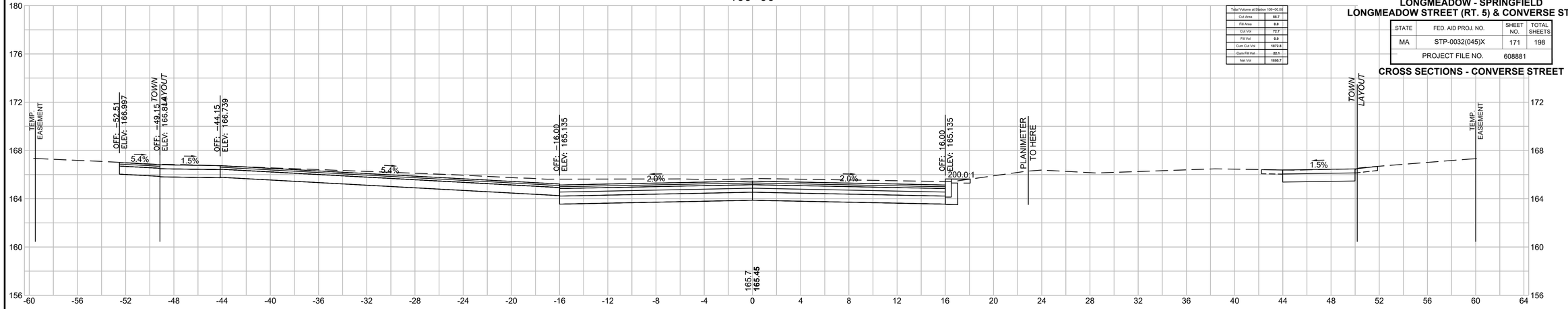
108+25



Total Volume at Station 108+25.00	
Cut Area	76.6
Fill Area	0.0
Cut Vol	71.3
Fill Vol	0.0
Cum Cut Vol	1637.1
Cum Fill Vol	22.1
Net Vol	1615.0

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:52 AM

109+00



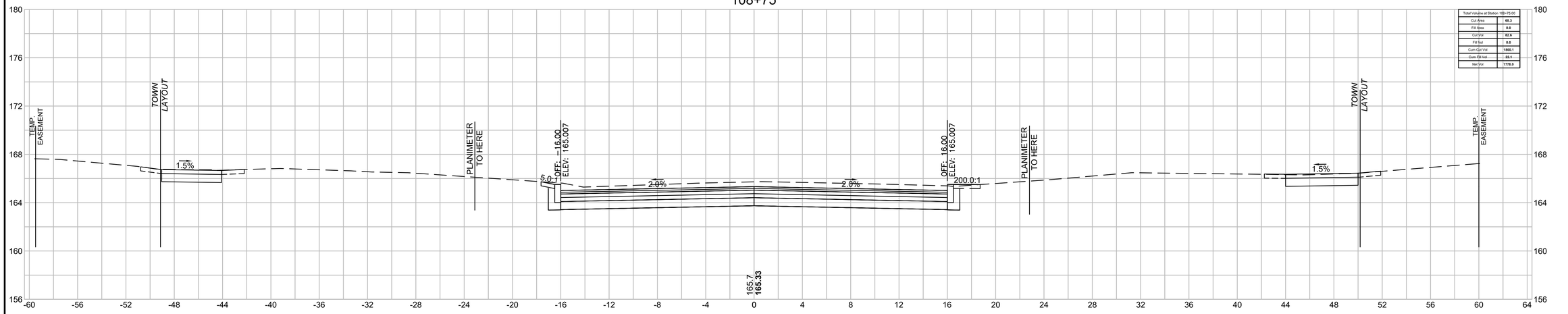
Total Volume at Station 109+00.00	
Cut Area	66.7
Fill Area	0.0
Cut Vol	72.7
Fill Vol	0.0
Cum Cut Vol	1072.8
Cum Fill Vol	22.1
Net Vol	1050.7

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	171	198
PROJECT FILE NO.	608881		

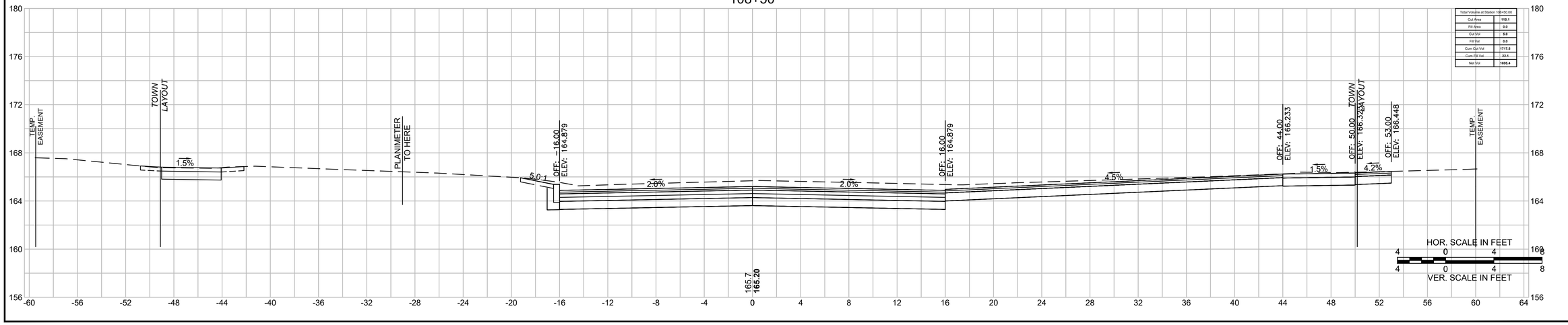
CROSS SECTIONS - CONVERSE STREET

108+75



Total Volume at Station 108+75.00	
Cut Area	68.3
Fill Area	0.0
Cut Vol	82.6
Fill Vol	0.0
Cum Cut Vol	1000.1
Cum Fill Vol	22.1
Net Vol	1778.0

108+50

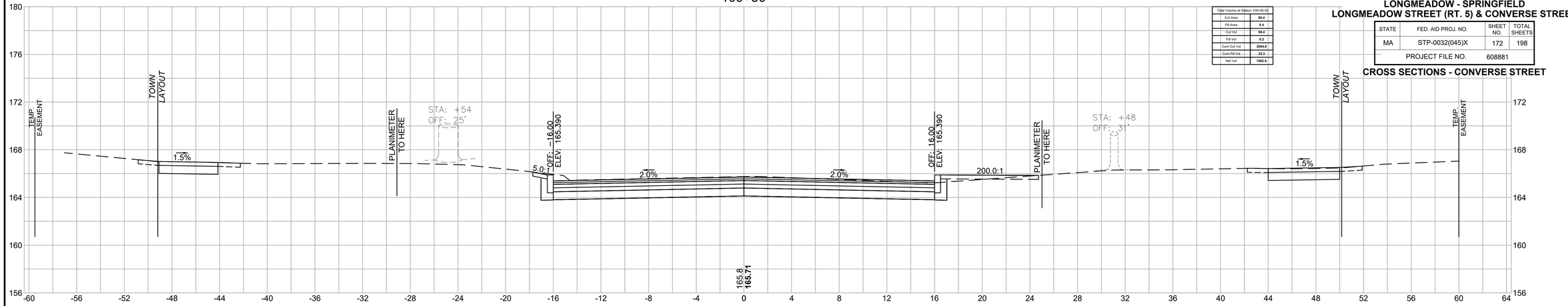


Total Volume at Station 108+50.00	
Cut Area	116.1
Fill Area	0.0
Cut Vol	0.0
Fill Vol	0.0
Cum Cut Vol	1717.5
Cum Fill Vol	22.1
Net Vol	1695.4

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

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:53 AM

109+50



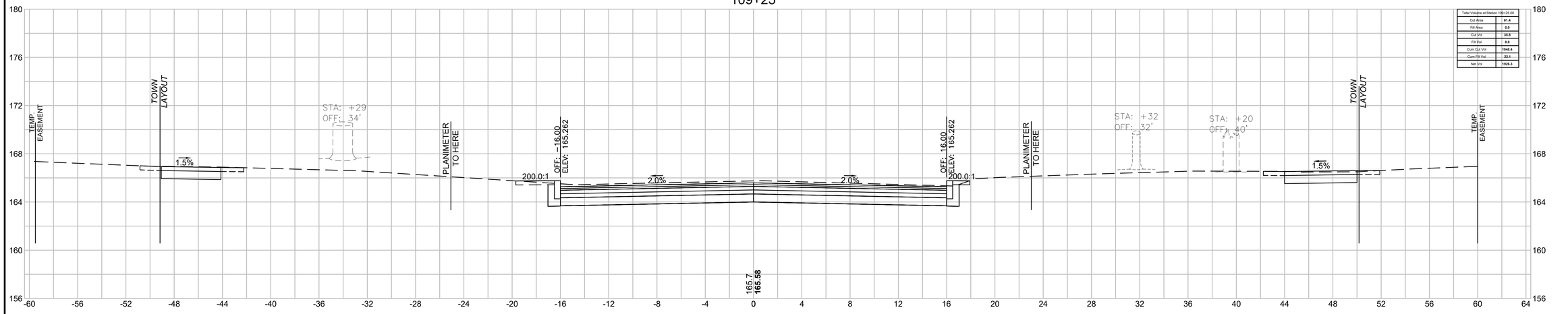
Total Volume at Station 109+50.00	
Cut Area	60.4
Fill Area	0.4
Cut Vol	56.4
Fill Vol	0.2
Cum Cut Vol	2004.2
Cum Fill Vol	22.3
Net Vol	1982.0

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	172	198
PROJECT FILE NO.	608881		

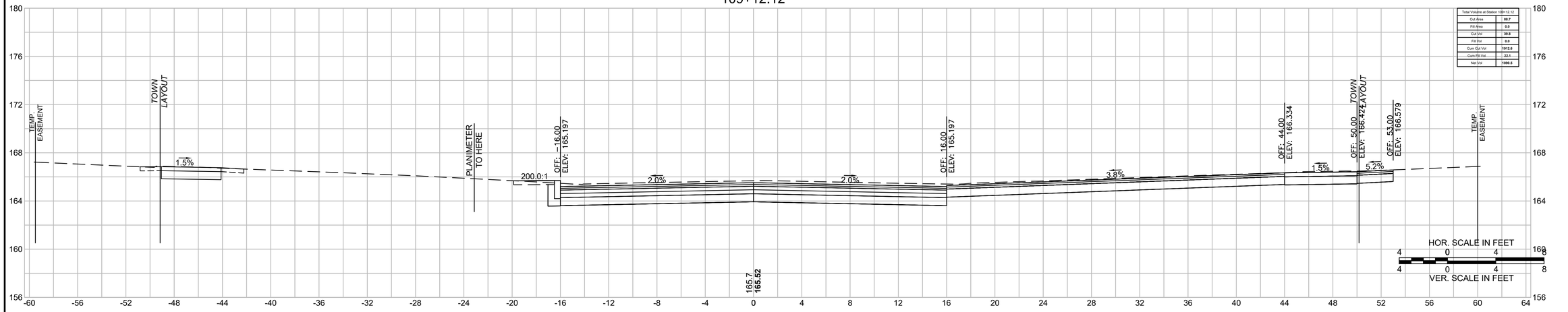
CROSS SECTIONS - CONVERSE STREET

109+25



Total Volume at Station 109+25.00	
Cut Area	61.4
Fill Area	0.0
Cut Vol	35.8
Fill Vol	0.0
Cum Cut Vol	1948.4
Cum Fill Vol	22.1
Net Vol	1926.3

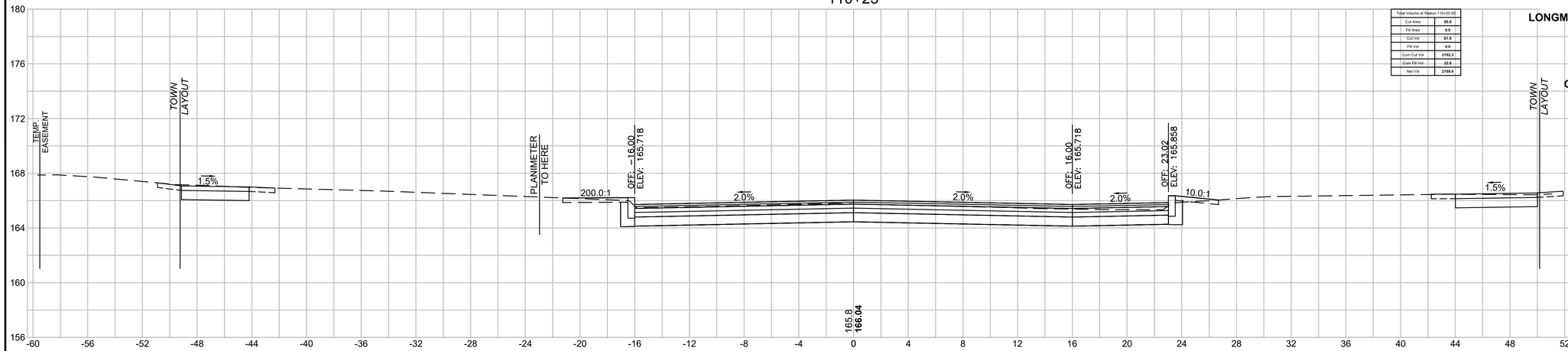
109+12.12



Total Volume at Station 109+12.12	
Cut Area	88.7
Fill Area	0.0
Cut Vol	39.8
Fill Vol	0.0
Cum Cut Vol	1912.6
Cum Fill Vol	22.1
Net Vol	1890.5

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:53 AM

110+25



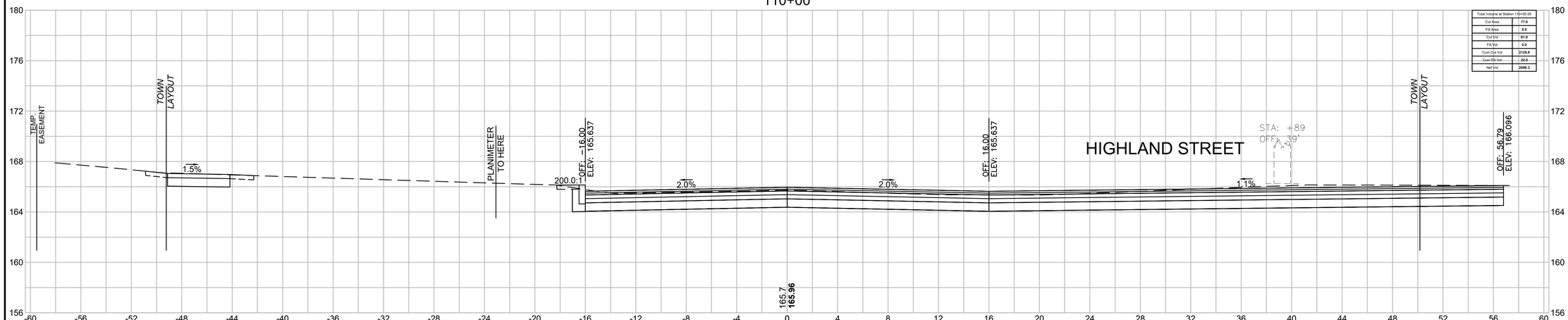
Total Volume at Station 110+25.00	
Cut Area	55.5
Fill Area	0.0
Cut Vol	61.5
Fill Vol	0.0
Cum Cut Vol	2193.3
Cum Fill Vol	22.5
Net Vol	2159.8

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	173	198
	PROJECT FILE NO. 608881		

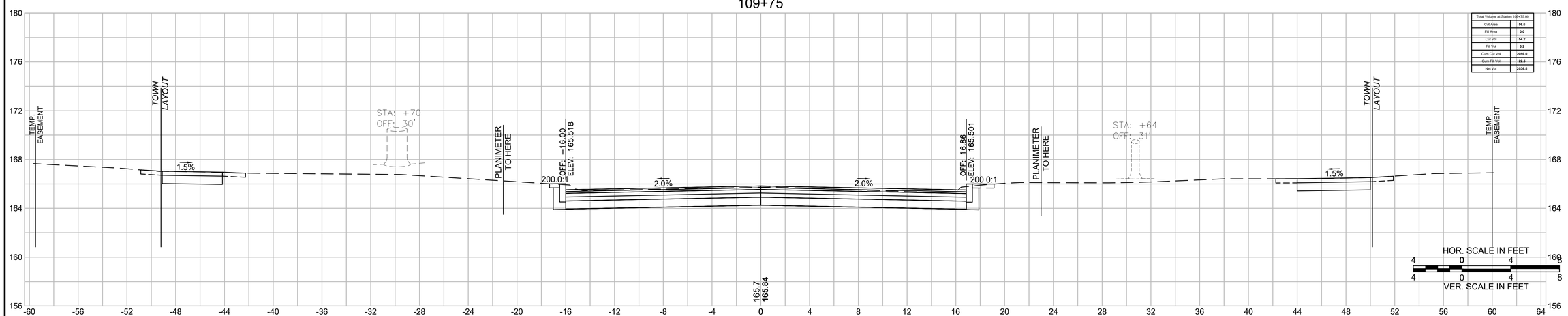
CROSS SECTIONS - CONVERSE STREET

110+00



Total Volume at Station 110+00.00	
Cut Area	77.0
Fill Area	0.0
Cut Vol	61.8
Fill Vol	0.0
Cum Cut Vol	2120.8
Cum Fill Vol	22.5
Net Vol	2098.3

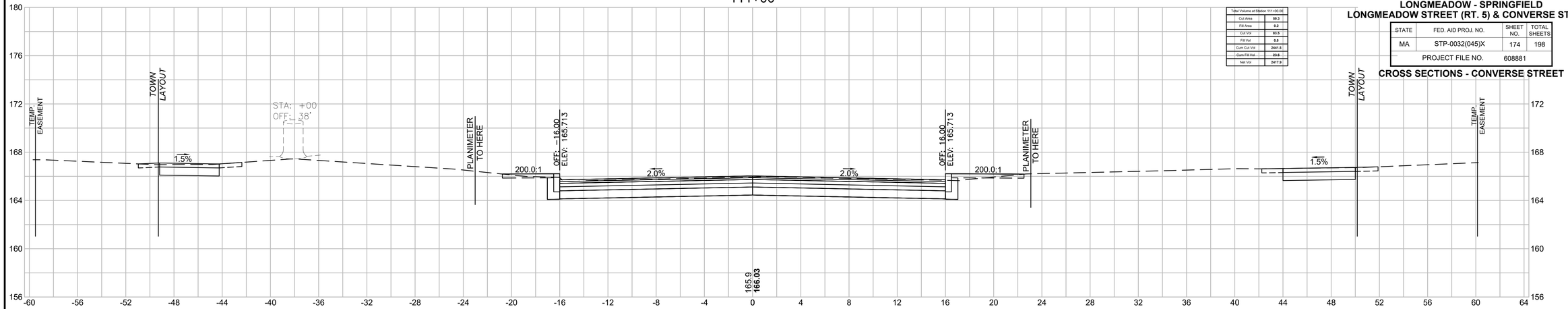
109+75



Total Volume at Station 109+75.00	
Cut Area	56.6
Fill Area	0.0
Cut Vol	54.2
Fill Vol	0.2
Cum Cut Vol	2099.0
Cum Fill Vol	22.5
Net Vol	2038.5

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:54 AM

111+00



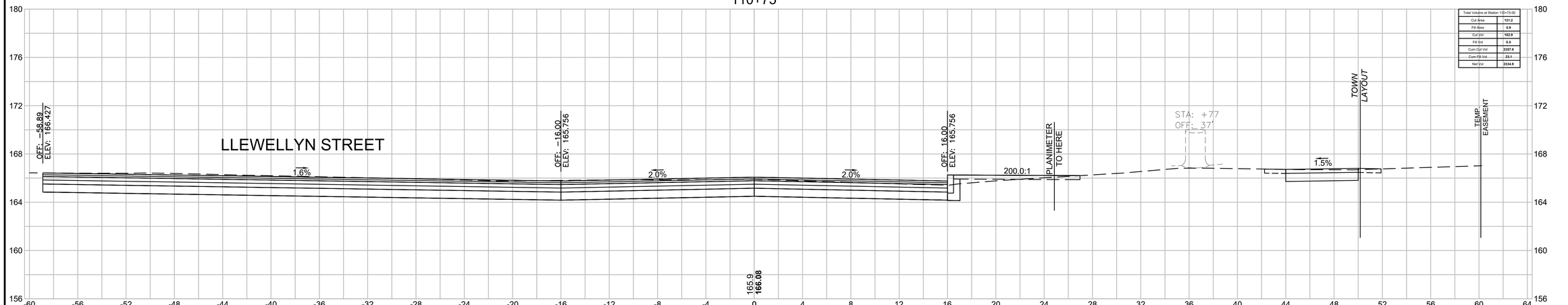
Total Volume at Station 111+00.00	
Cut Area	99.3
Fill Area	0.2
Cut Vol	83.5
Fill Vol	0.5
Cum Cut Vol	2441.5
Cum Fill Vol	23.6
Net Vol	2417.9

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	174	198
PROJECT FILE NO.	608881		

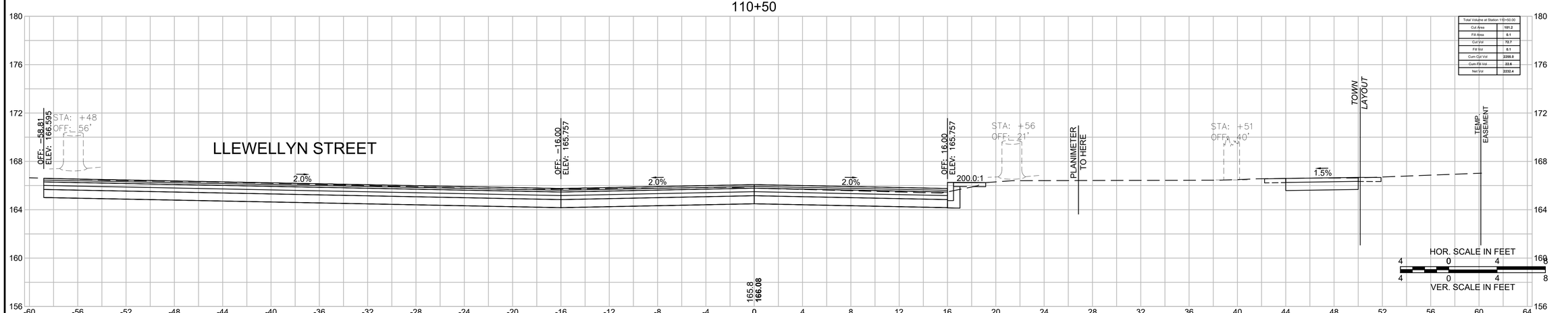
CROSS SECTIONS - CONVERSE STREET

110+75



Total Volume at Station 110+75.00	
Cut Area	121.2
Fill Area	0.3
Cut Vol	102.9
Fill Vol	0.5
Cum Cut Vol	2357.5
Cum Fill Vol	23.1
Net Vol	2334.5

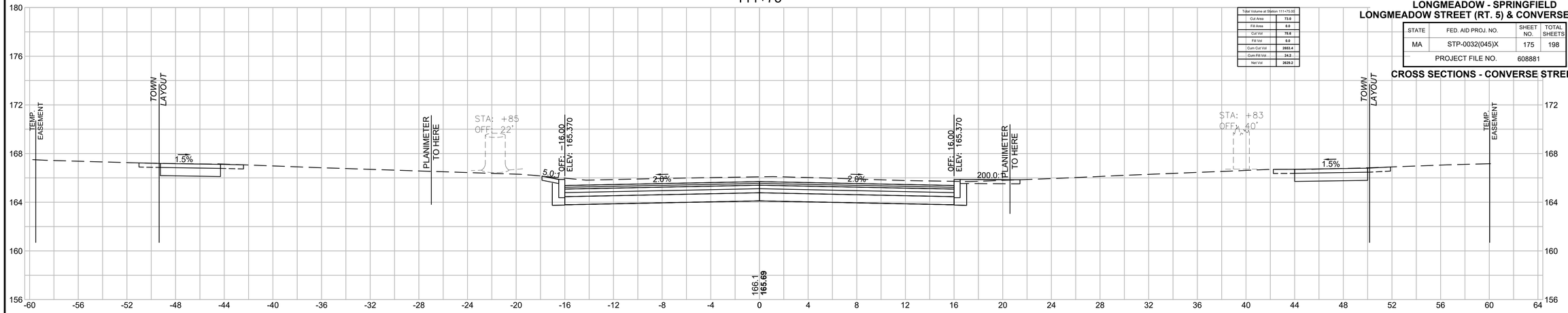
110+50



Total Volume at Station 110+50.00	
Cut Area	101.2
Fill Area	0.1
Cut Vol	72.7
Fill Vol	0.1
Cum Cut Vol	2255.0
Cum Fill Vol	22.6
Net Vol	2232.4

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:55 AM

111+75



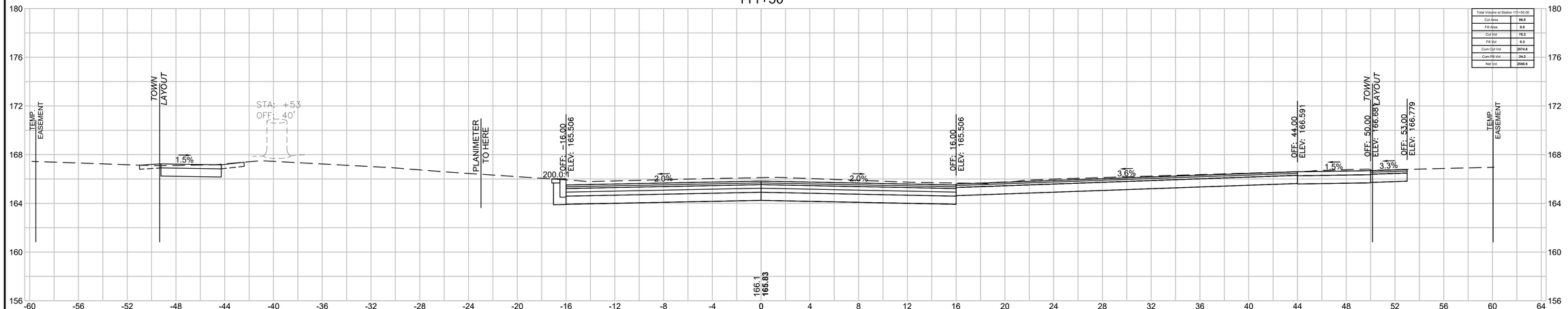
Total Volume at Station 111+75.00	
Cut Area	73.0
Fill Area	0.0
Cut Vol	76.6
Fill Vol	0.0
Cum Cut Vol	2603.4
Cum Fill Vol	24.2
Net Vol	2629.2

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	175	198
PROJECT FILE NO.	608881		

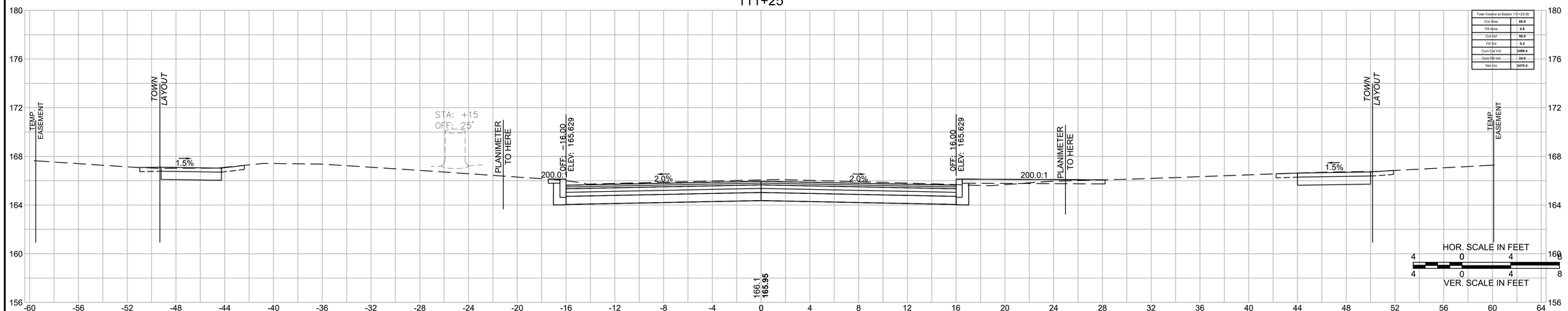
CROSS SECTIONS - CONVERSE STREET

111+50



Total Volume at Station 111+50.00	
Cut Area	96.8
Fill Area	0.0
Cut Vol	78.3
Fill Vol	0.3
Cum Cut Vol	2674.8
Cum Fill Vol	24.2
Net Vol	2650.5

111+25

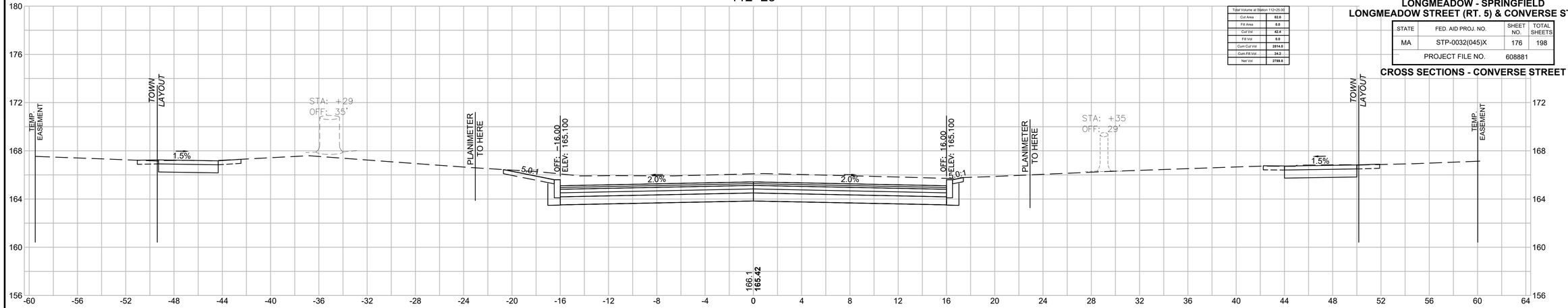


Total Volume at Station 111+25.00	
Cut Area	65.9
Fill Area	0.6
Cut Vol	66.0
Fill Vol	0.4
Cum Cut Vol	2499.4
Cum Fill Vol	24.0
Net Vol	2475.5

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

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:55 AM

112+25



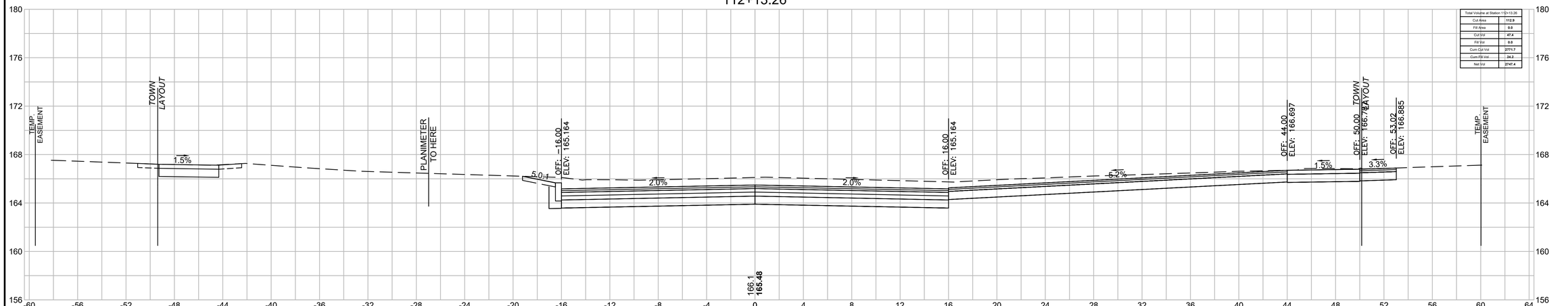
Total Volume at Station 112+25.00	
Cut Area	52.0
Fill Area	0.0
Cut Vol	42.4
Fill Vol	0.0
Cum Cut Vol	2914.2
Cum Fill Vol	34.2
Net Vol	2789.8

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	176	198
	PROJECT FILE NO. 608881		

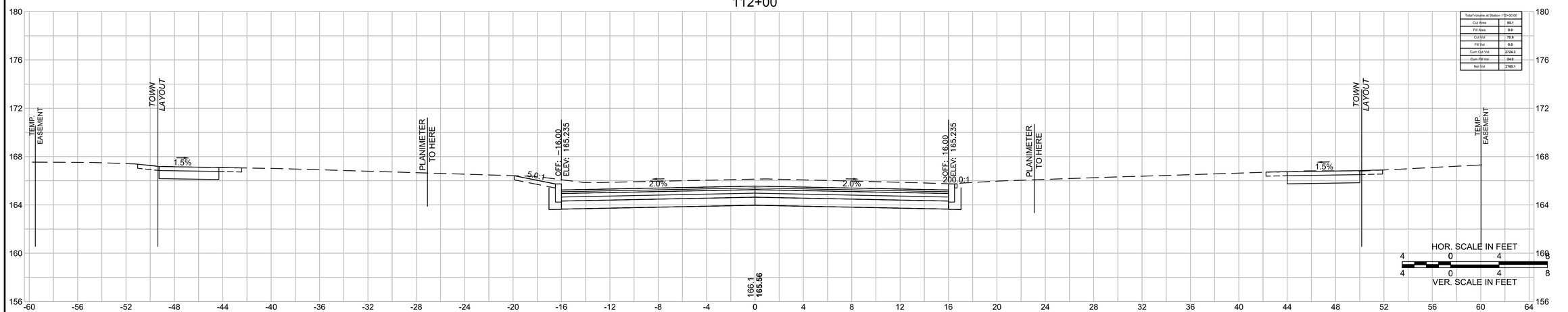
CROSS SECTIONS - CONVERSE STREET

112+13.26



Total Volume at Station 112+13.26	
Cut Area	112.9
Fill Area	0.0
Cut Vol	87.4
Fill Vol	0.0
Cum Cut Vol	2771.7
Cum Fill Vol	34.2
Net Vol	2747.4

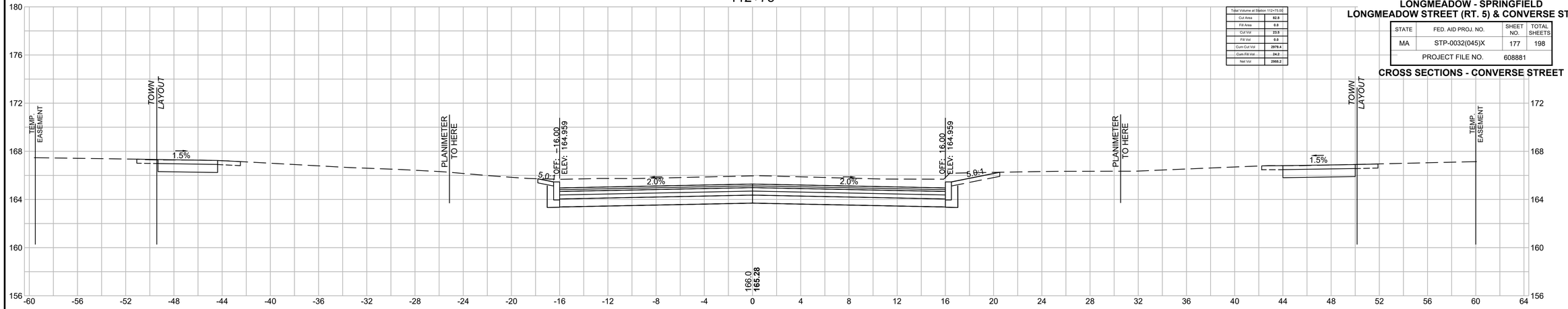
112+00



Total Volume at Station 112+00.00	
Cut Area	55.1
Fill Area	0.0
Cut Vol	72.9
Fill Vol	0.0
Cum Cut Vol	2724.3
Cum Fill Vol	34.2
Net Vol	2700.1

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:56 AM

112+75



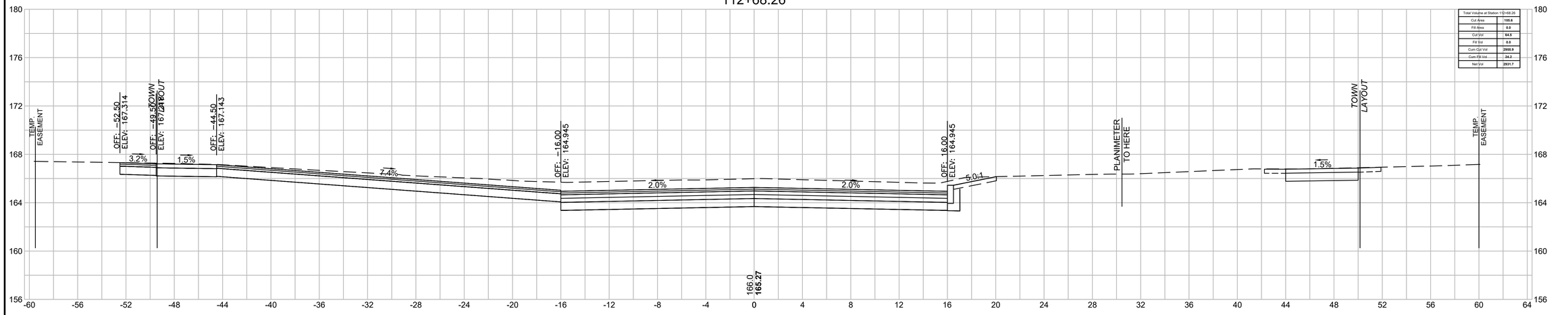
Total Volume at Station 112+75.00	
Cut Area	52.0
Fill Area	0.0
Cut Vol	23.5
Fill Vol	0.0
Cum Cut Vol	2975.4
Cum Fill Vol	24.2
Net Vol	2966.2

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	177	198
PROJECT FILE NO.	608881		

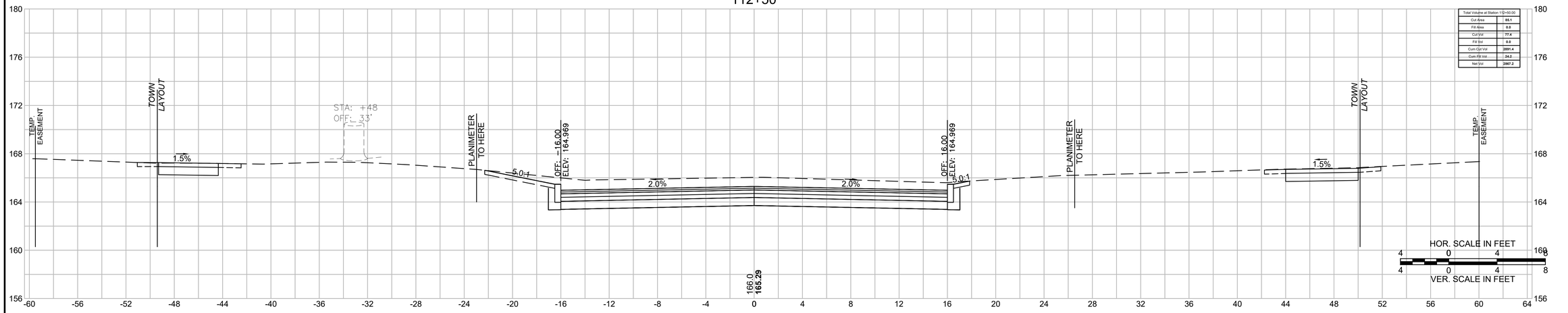
CROSS SECTIONS - CONVERSE STREET

112+68.26



Total Volume at Station 112+68.26	
Cut Area	105.6
Fill Area	0.0
Cut Vol	84.5
Fill Vol	0.0
Cum Cut Vol	2956.9
Cum Fill Vol	24.2
Net Vol	2931.7

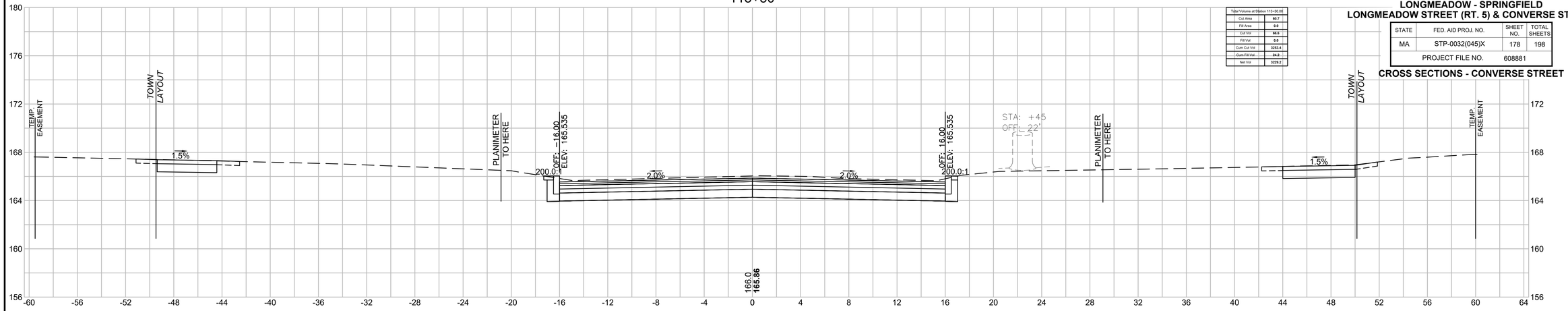
112+50



Total Volume at Station 112+00.00	
Cut Area	85.1
Fill Area	0.0
Cut Vol	77.4
Fill Vol	0.0
Cum Cut Vol	2891.4
Cum Fill Vol	24.2
Net Vol	2867.2

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:56 AM

113+50



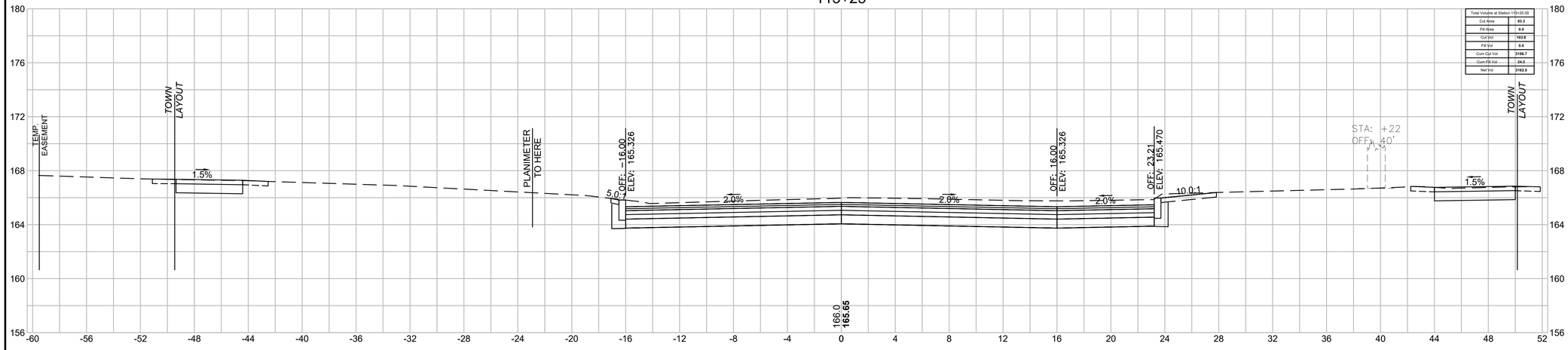
Total Volume at Station 113+50.00	
Cut Area	60.7
Fill Area	0.0
Cut Vol	66.6
Fill Vol	0.0
Cum Cut Vol	3253.4
Cum Fill Vol	24.2
Net Vol	3229.2

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	178	198
PROJECT FILE NO.	608881		

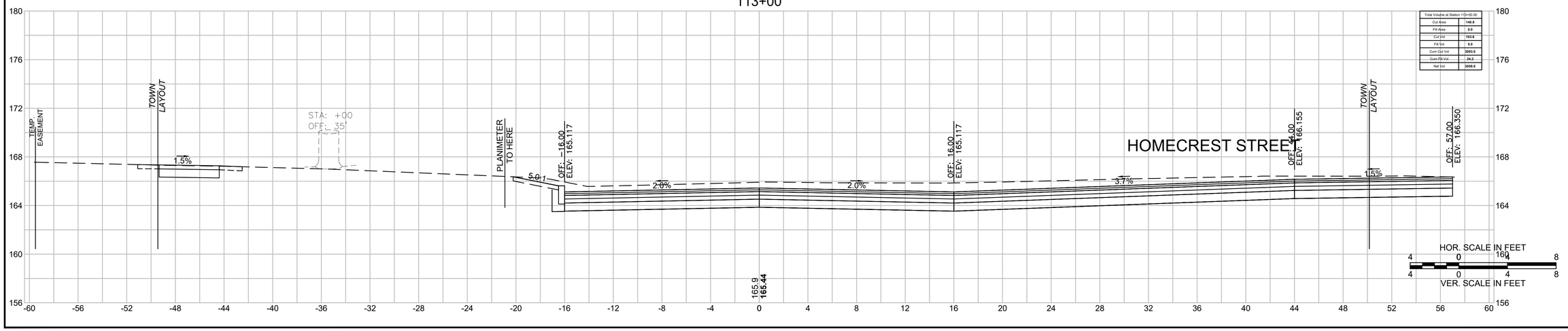
CROSS SECTIONS - CONVERSE STREET

113+25



Total Volume at Station 113+25.00	
Cut Area	83.3
Fill Area	0.0
Cut Vol	103.8
Fill Vol	0.0
Cum Cut Vol	3186.7
Cum Fill Vol	24.2
Net Vol	3162.5

113+00



Total Volume at Station 113+00.00	
Cut Area	140.9
Fill Area	0.0
Cut Vol	103.6
Fill Vol	0.0
Cum Cut Vol	3083.0
Cum Fill Vol	24.2
Net Vol	3058.8

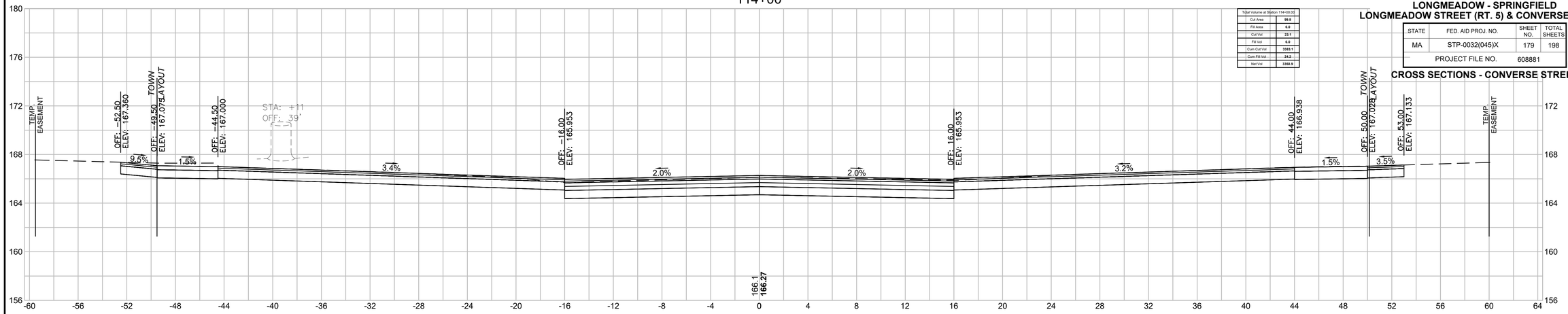
20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:57 AM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

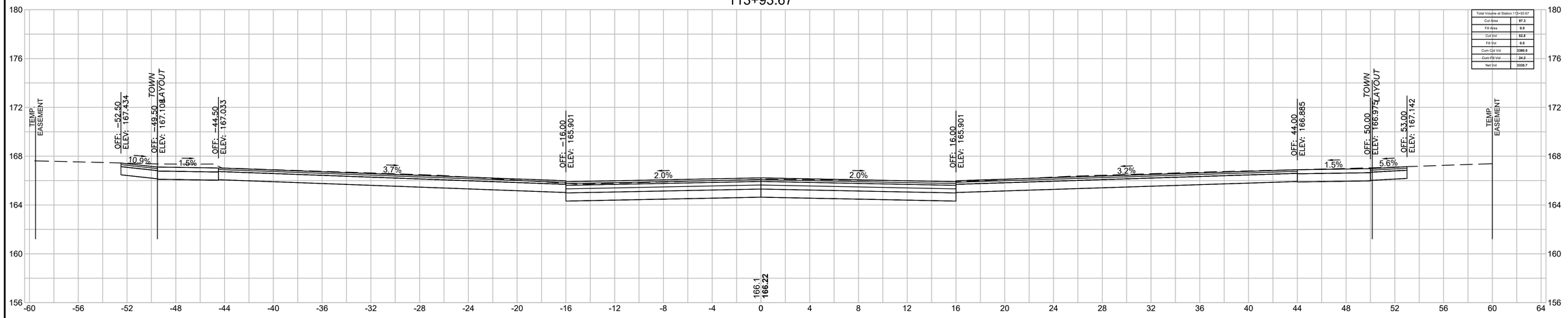
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	179	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - CONVERSE STREET

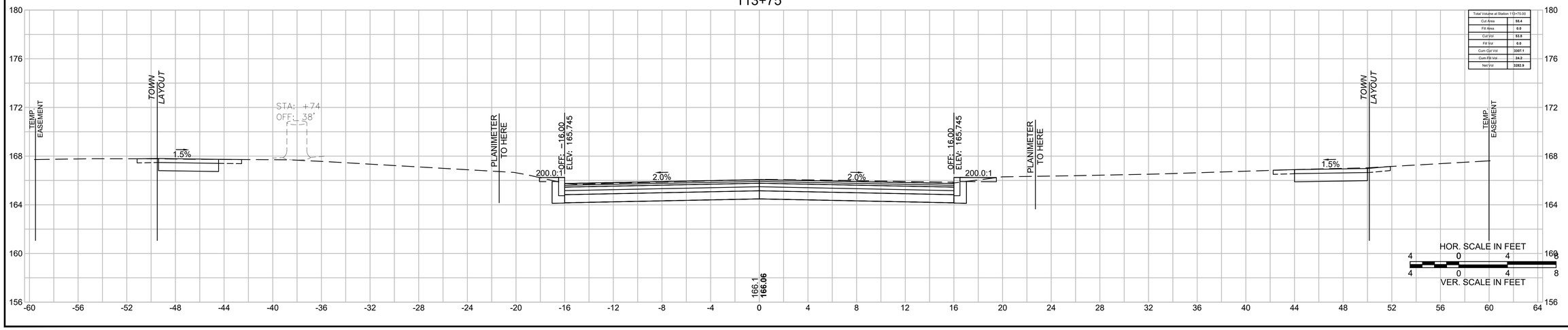
114+00



113+93.67



113+75

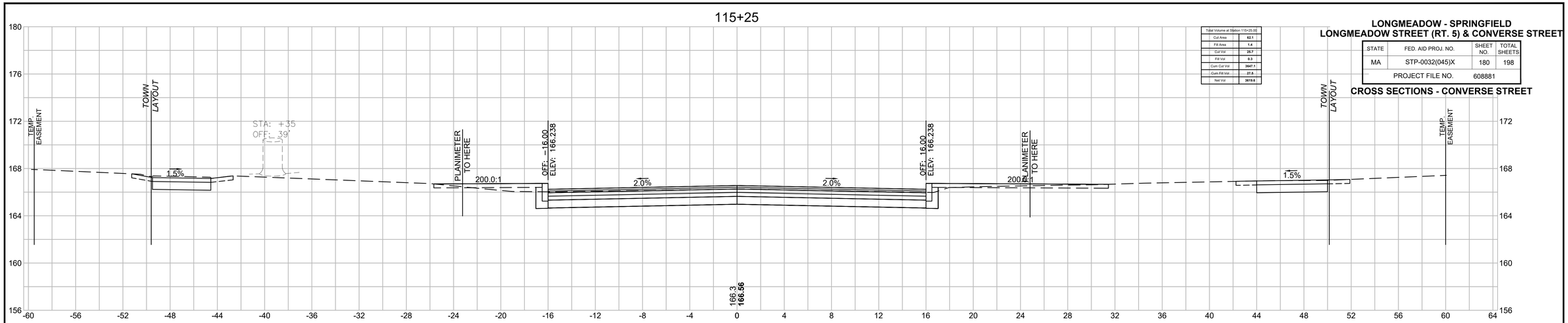


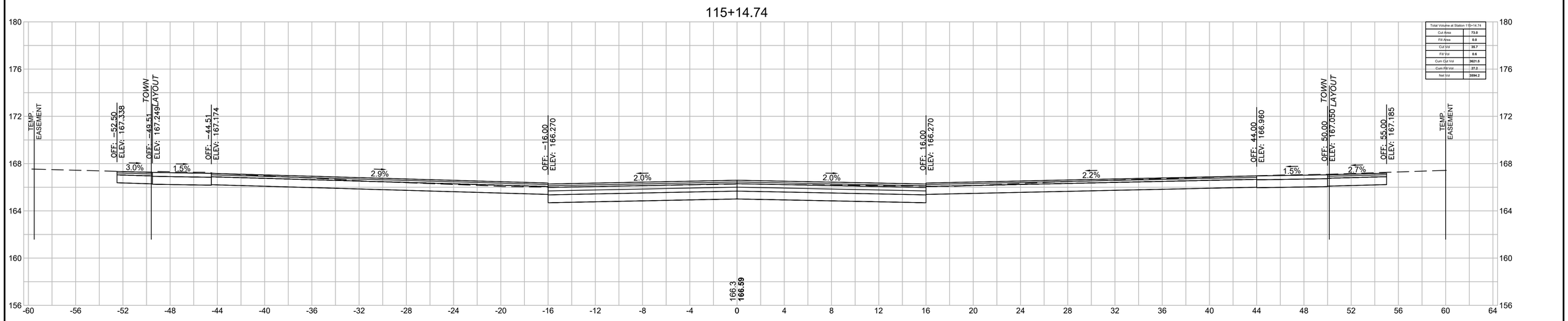
20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:58 AM

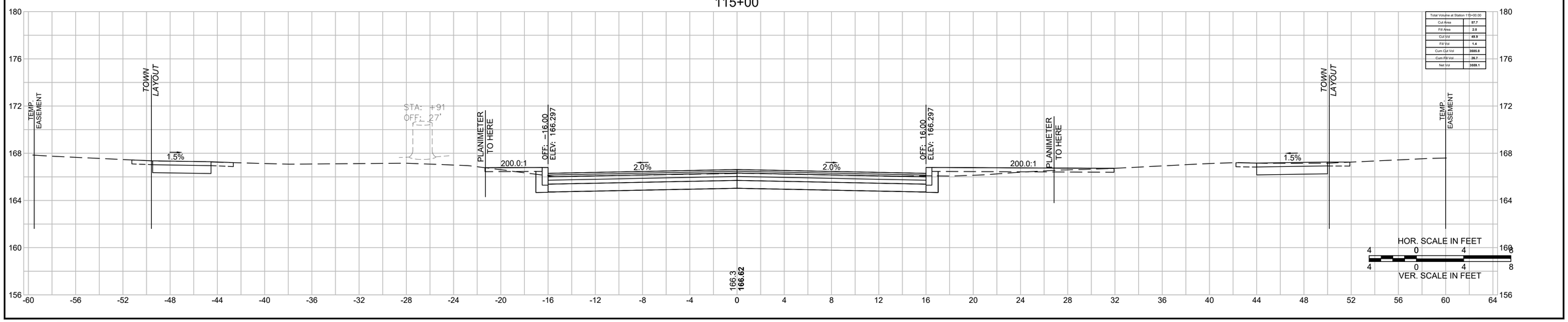
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	180	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - CONVERSE STREET

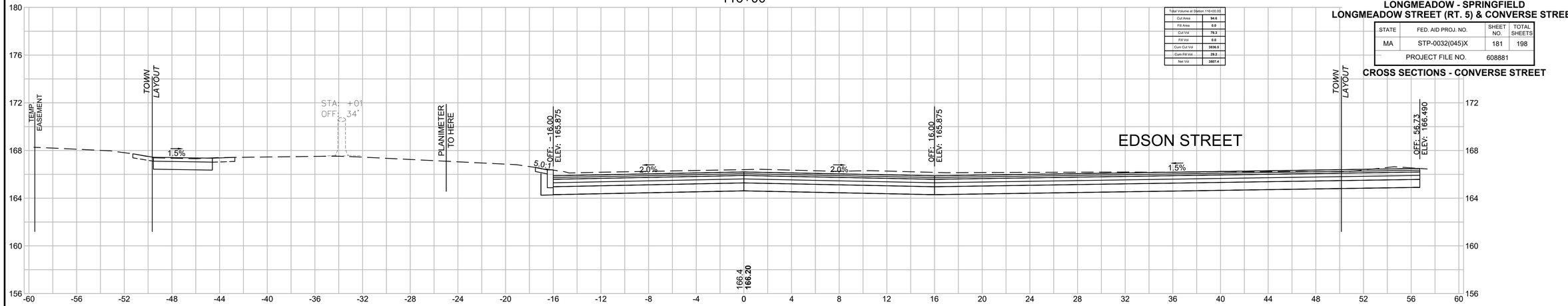






20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:58 AM

116+00



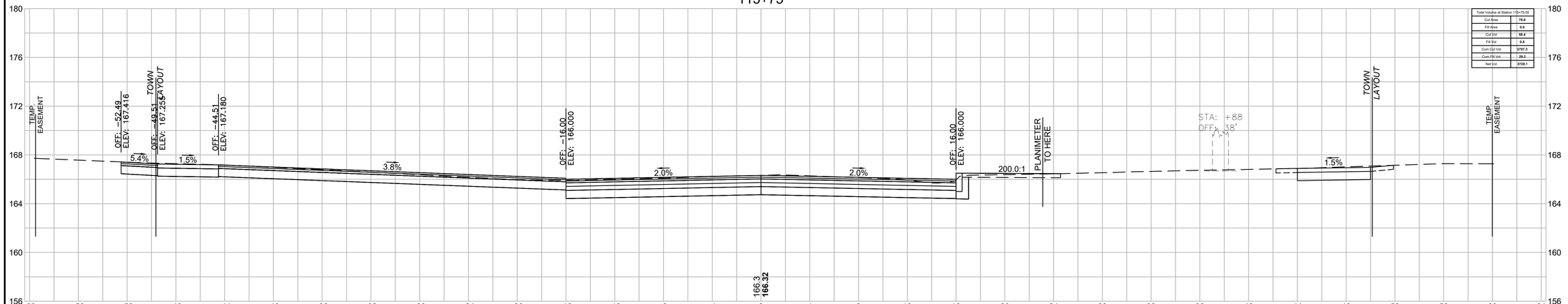
Total Volume at Station 116+00.00	
Cut Area	94.6
Fill Area	0.0
Cut Vol	79.3
Fill Vol	0.0
Cum Cut Vol	3530.0
Cum Fill Vol	29.2
Net Vol	3807.4

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	181	198
PROJECT FILE NO.	608881		

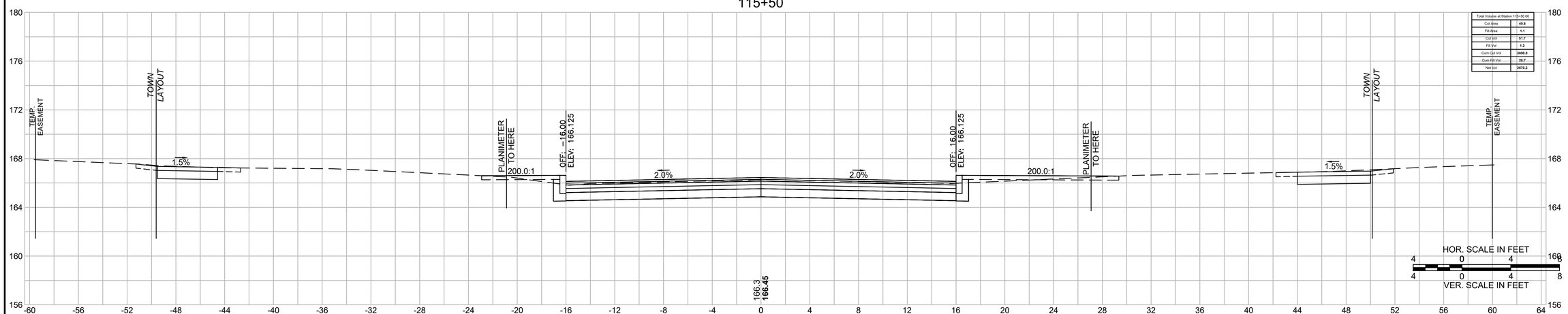
CROSS SECTIONS - CONVERSE STREET

115+75



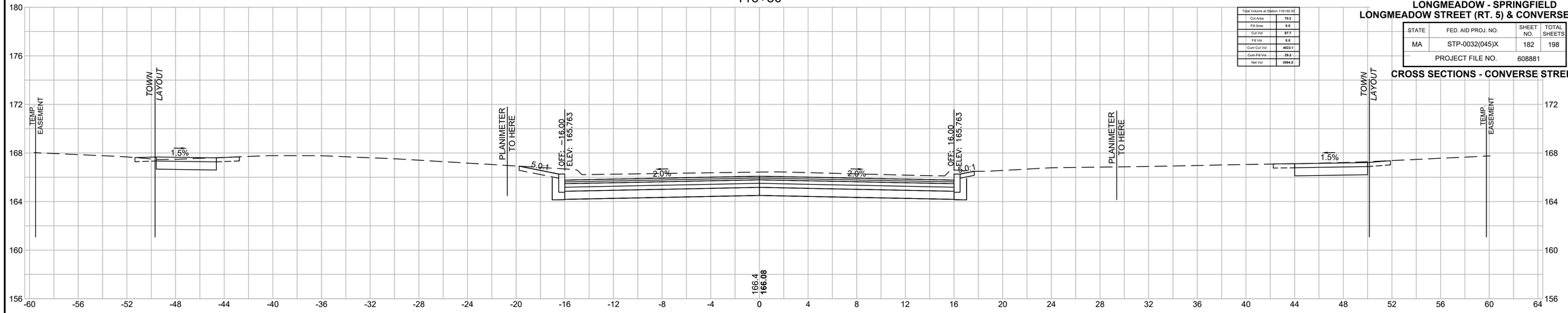
Total Volume at Station 115+75.00	
Cut Area	76.6
Fill Area	0.0
Cut Vol	66.4
Fill Vol	0.5
Cum Cut Vol	3797.3
Cum Fill Vol	29.2
Net Vol	3735.1

115+50



Total Volume at Station 115+50.00	
Cut Area	49.6
Fill Area	1.1
Cut Vol	51.7
Fill Vol	1.2
Cum Cut Vol	3698.8
Cum Fill Vol	28.7
Net Vol	3670.2

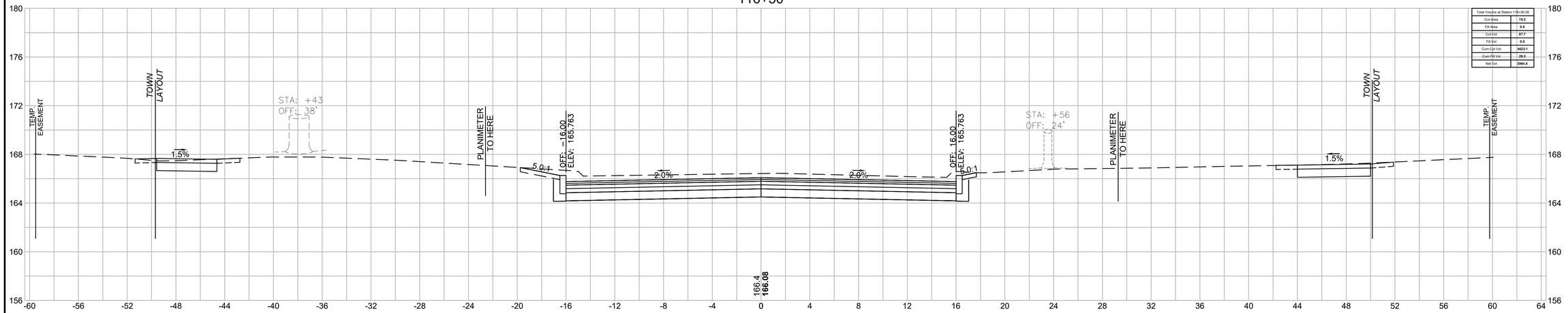
20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 9:59 AM

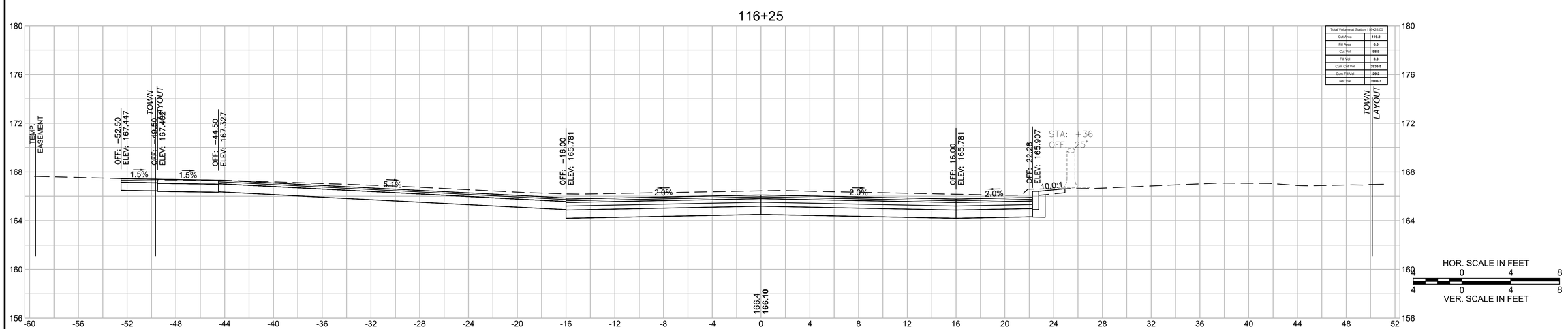


LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	182	198
PROJECT FILE NO.	608881		

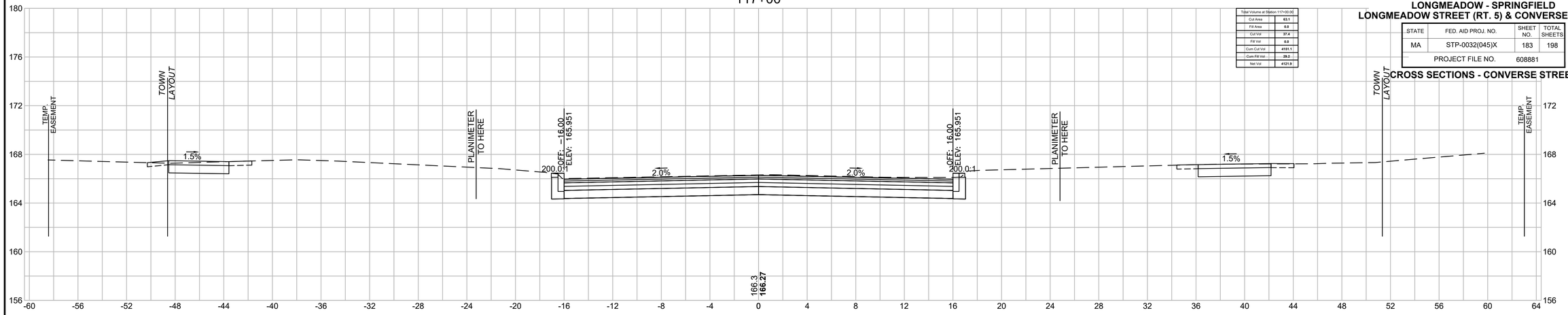
CROSS SECTIONS - CONVERSE STREET





20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:00 AM

117+00



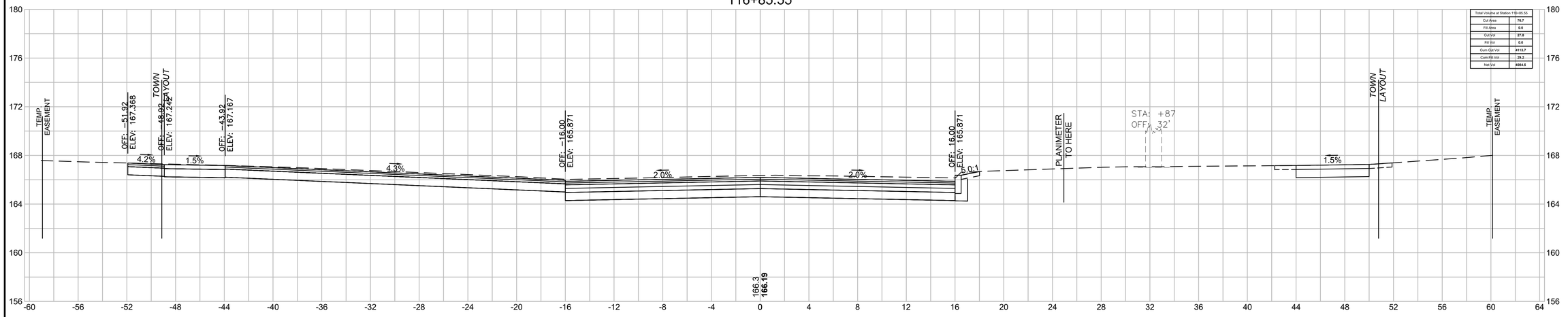
Total Volume at Station 117+00.00	
Cut Area	63.1
Fill Area	0.0
Cut Vol	37.4
Fill Vol	0.0
Cum Cut Vol	4101.1
Cum Fill Vol	29.2
Net Vol	4121.9

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	183	198
	PROJECT FILE NO. 608881		

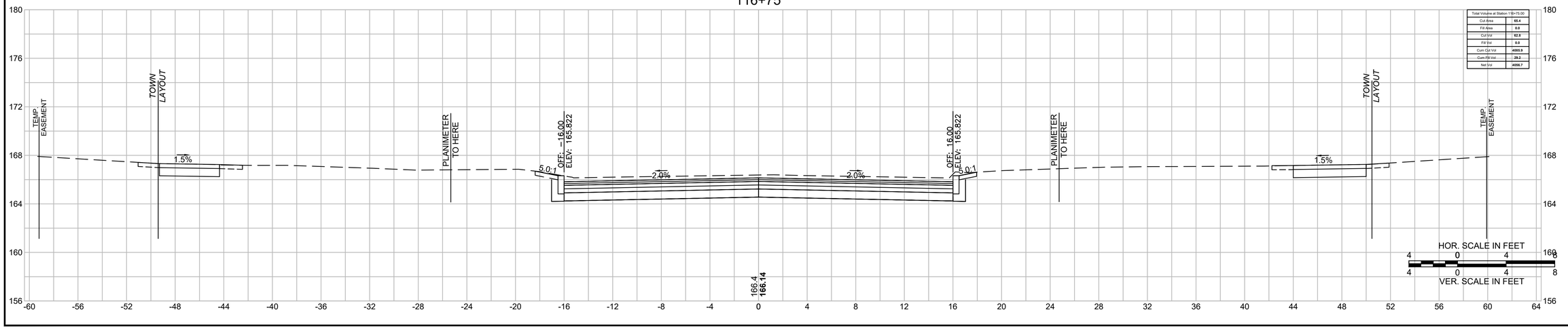
CROSS SECTIONS - CONVERSE STREET

116+85.55



Total Volume at Station 116+85.55	
Cut Area	78.7
Fill Area	0.0
Cut Vol	27.8
Fill Vol	0.0
Cum Cut Vol	4113.7
Cum Fill Vol	29.2
Net Vol	4084.5

116+75



Total Volume at Station 116+75.00	
Cut Area	65.4
Fill Area	0.0
Cut Vol	62.9
Fill Vol	0.0
Cum Cut Vol	4055.9
Cum Fill Vol	29.2
Net Vol	4026.7

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:00 AM

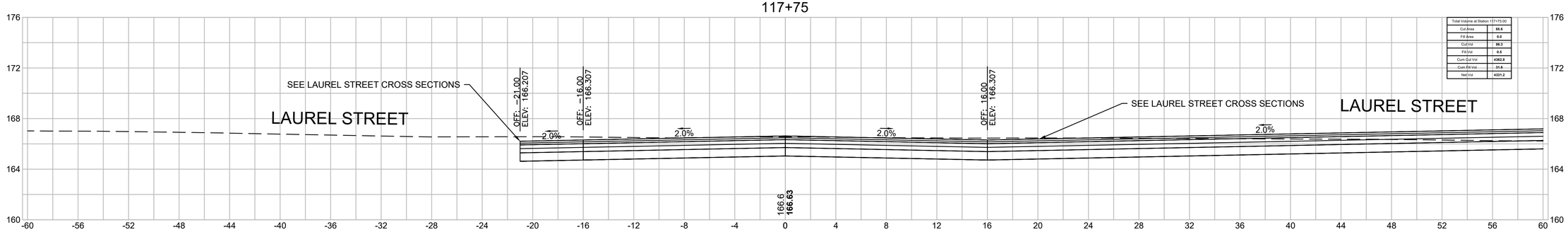
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	184	198
	PROJECT FILE NO. 608881		

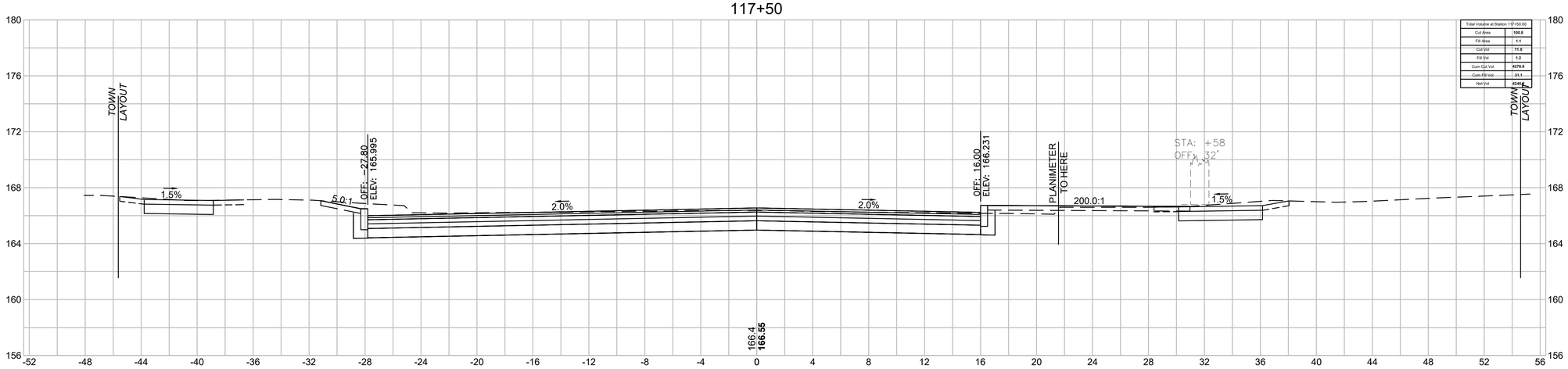
CROSS SECTIONS - CONVERSE STREET

Plotted on 18-Jun-2025 10:01 AM
20170404A10_XSEC01_CONVERSE.DWG

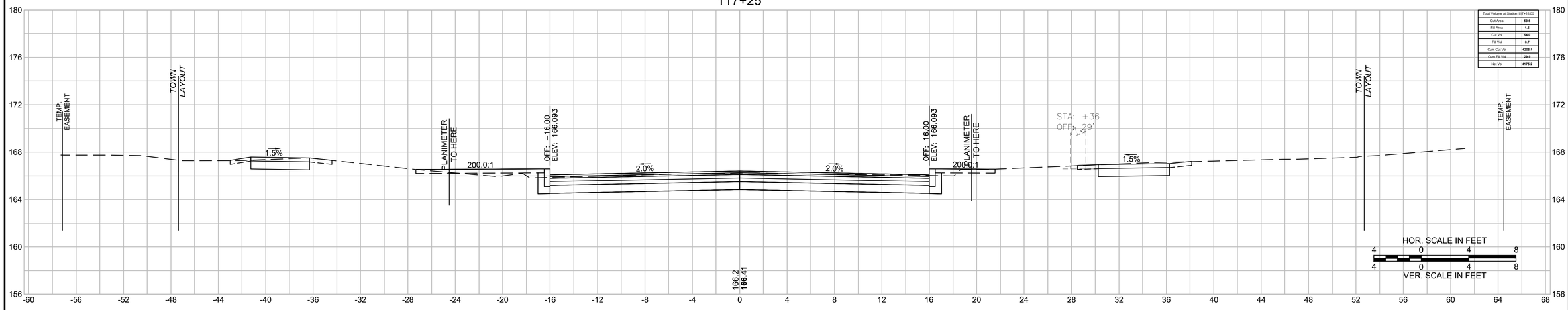
117+75



117+50



117+25



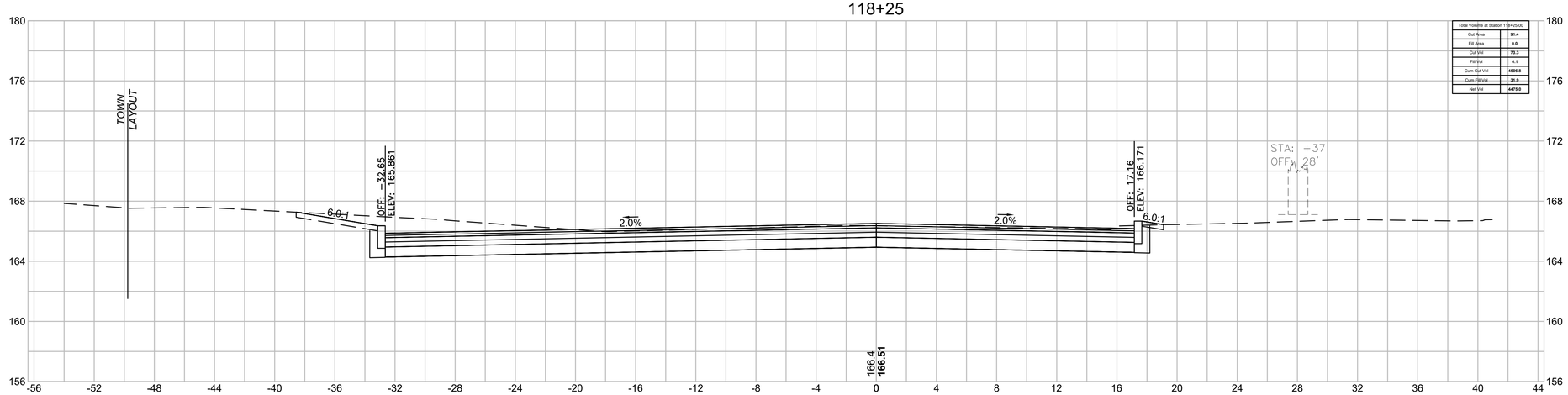
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	185	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - CONVERSE STREET

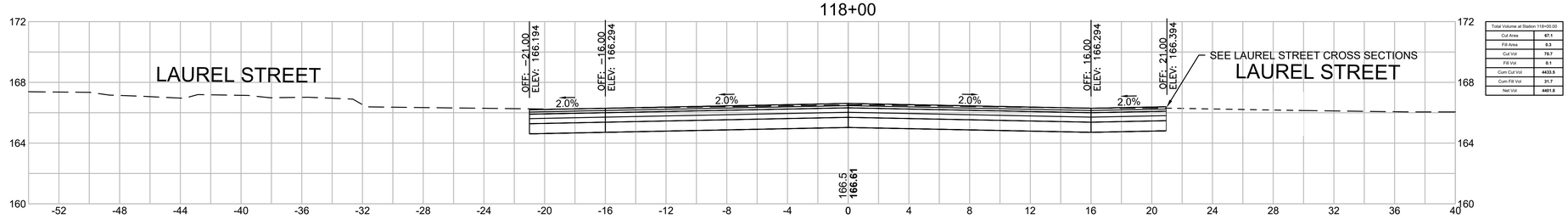
20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:02 AM

118+25



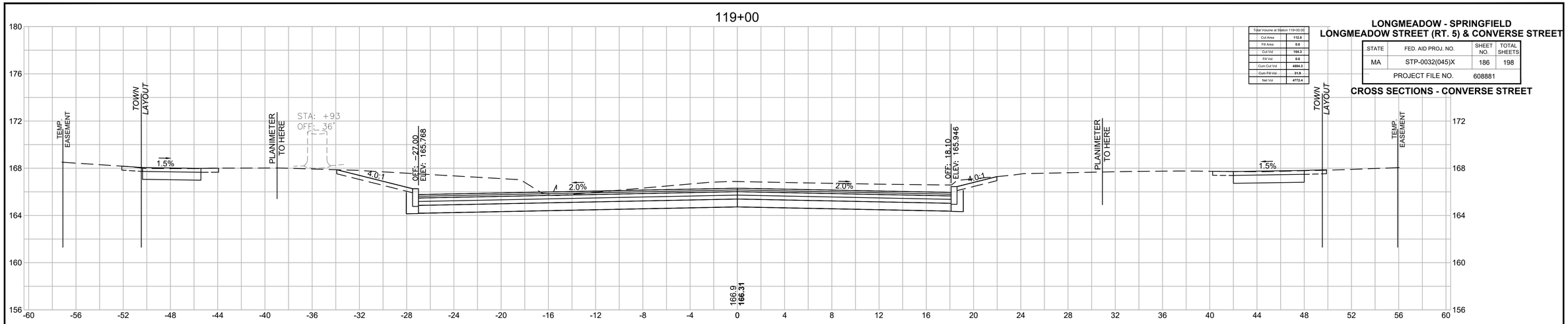
Total Volume at Station 118+25.00	
Cut Area	91.4
Fill Area	0.0
Cut Vol	73.3
Fill Vol	0.1
Cum Cut Vol	4606.8
Cum Fill Vol	31.9
Net Vol	4475.0

118+00



Total Volume at Station 118+00.00	
Cut Area	87.1
Fill Area	0.3
Cut Vol	70.7
Fill Vol	0.1
Cum Cut Vol	4433.5
Cum Fill Vol	31.7
Net Vol	4401.8

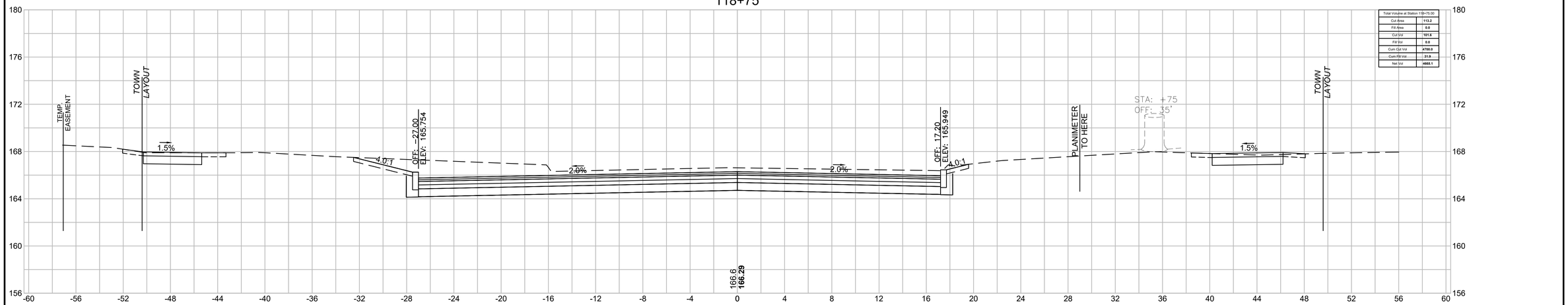
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

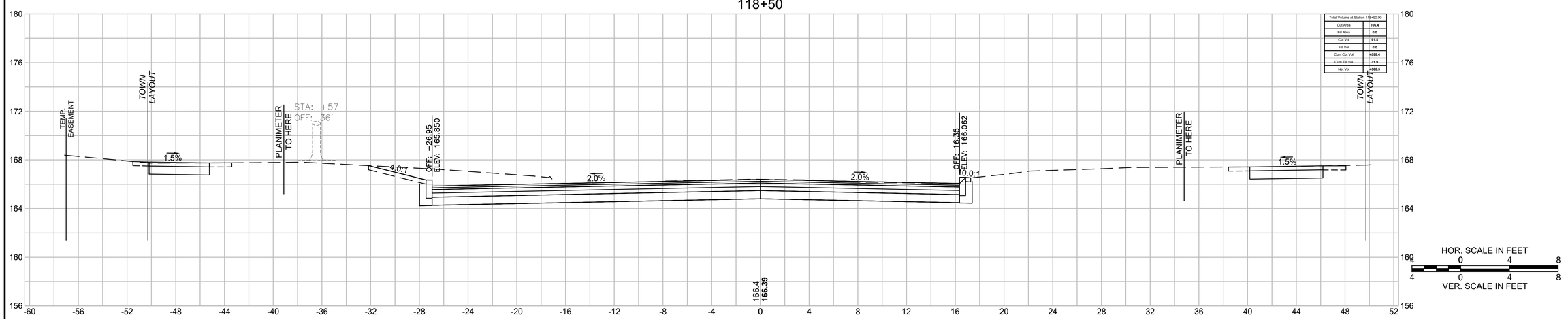


LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

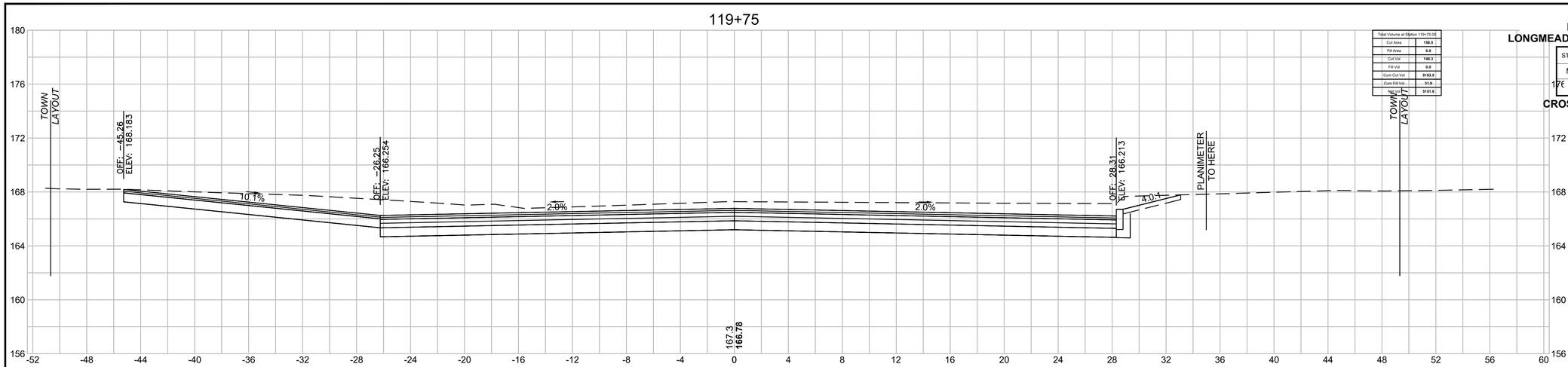
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	186	198
	PROJECT FILE NO. 608881		

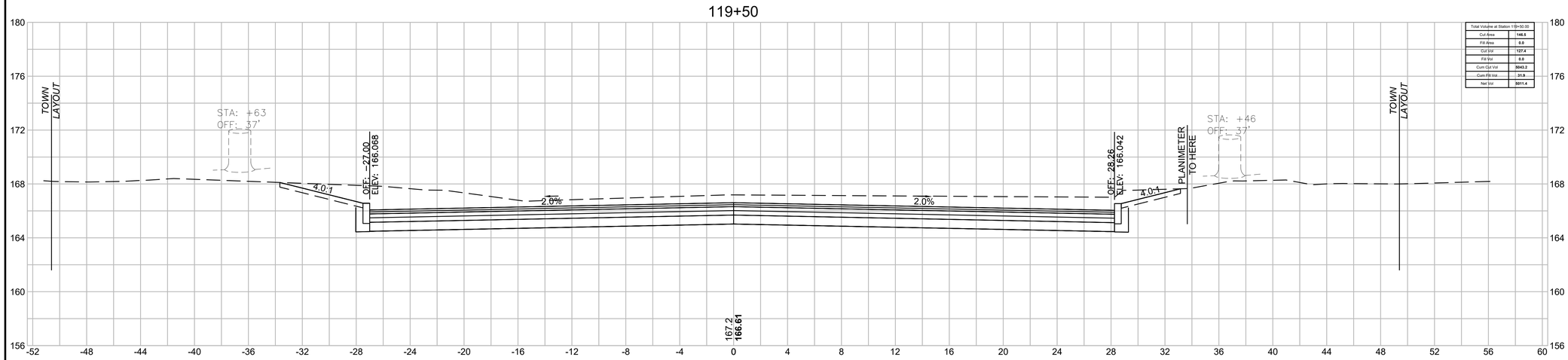
CROSS SECTIONS - CONVERSE STREET

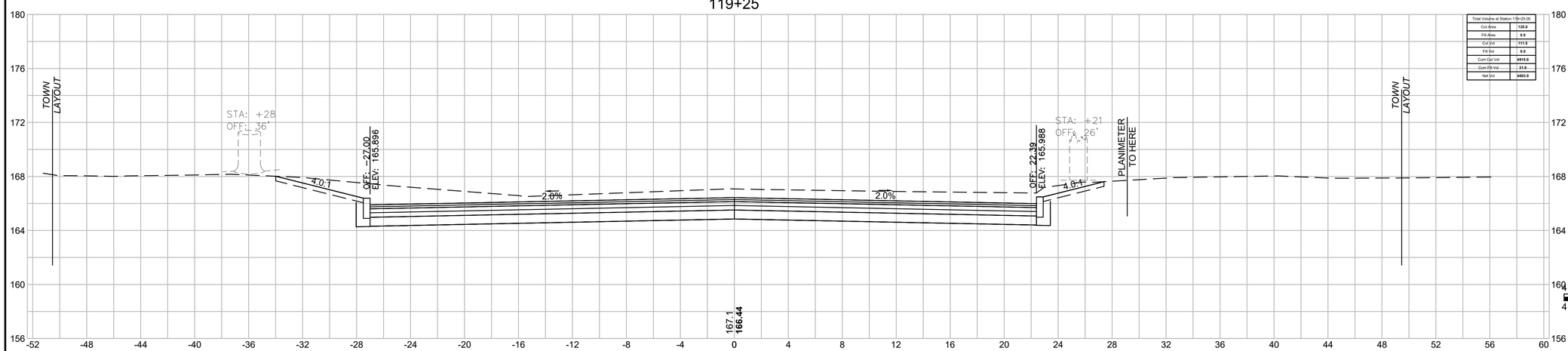




20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:02 AM







LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

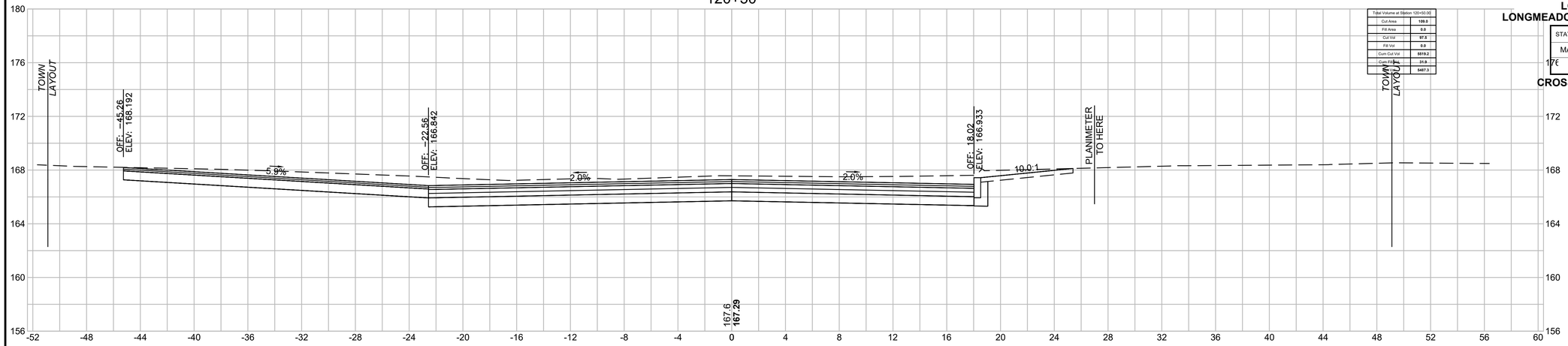
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	187	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - CONVERSE STREET

Plotted on 18-Jun-2025 10:03 AM

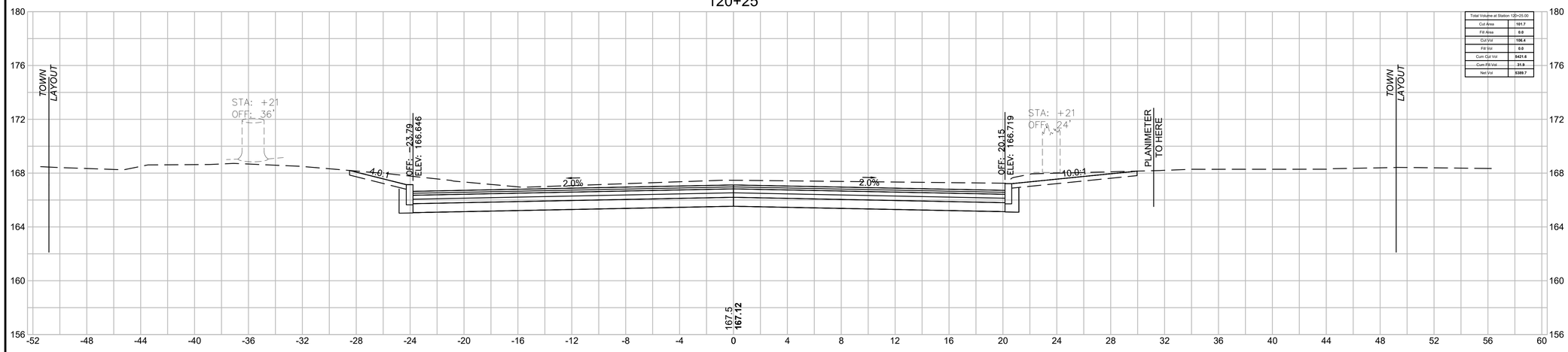
20170404A10_XSEC01_CONVERSE.DWG

120+50



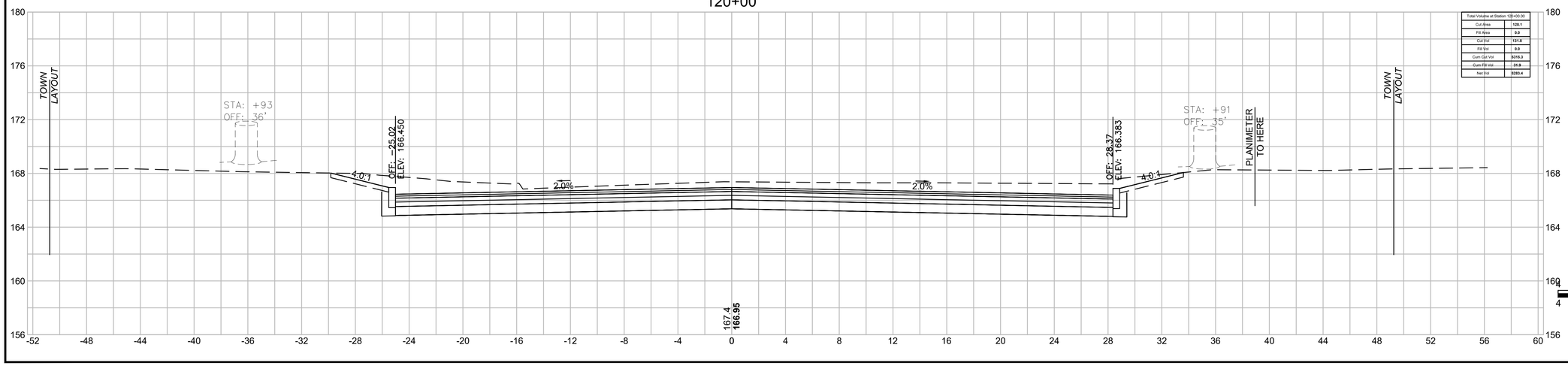
Total Volume at Station 120+50.00	
Cut Area	189.0
Fill Area	0.0
Cut Vol	97.5
Fill Vol	0.0
Cum Cut Vol	5519.2
Cum Fill Vol	31.9
Net Vol	5487.3

120+25



Total Volume at Station 120+25.00	
Cut Area	101.7
Fill Area	0.0
Cut Vol	106.4
Fill Vol	0.0
Cum Cut Vol	5421.6
Cum Fill Vol	31.9
Net Vol	5389.7

120+00



Total Volume at Station 120+00.00	
Cut Area	126.1
Fill Area	0.0
Cut Vol	131.8
Fill Vol	0.0
Cum Cut Vol	5316.3
Cum Fill Vol	31.9
Net Vol	5283.4

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

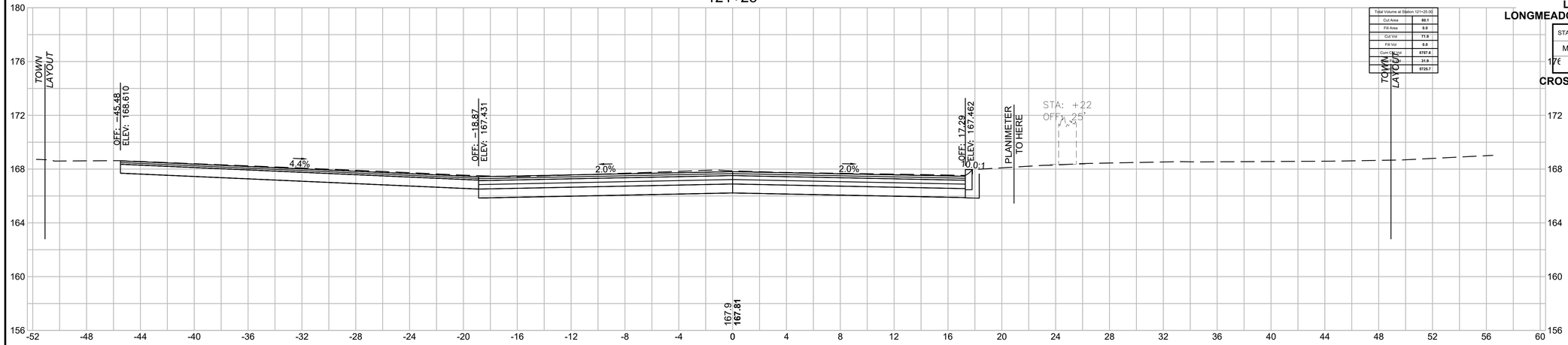
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	188	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - CONVERSE STREET

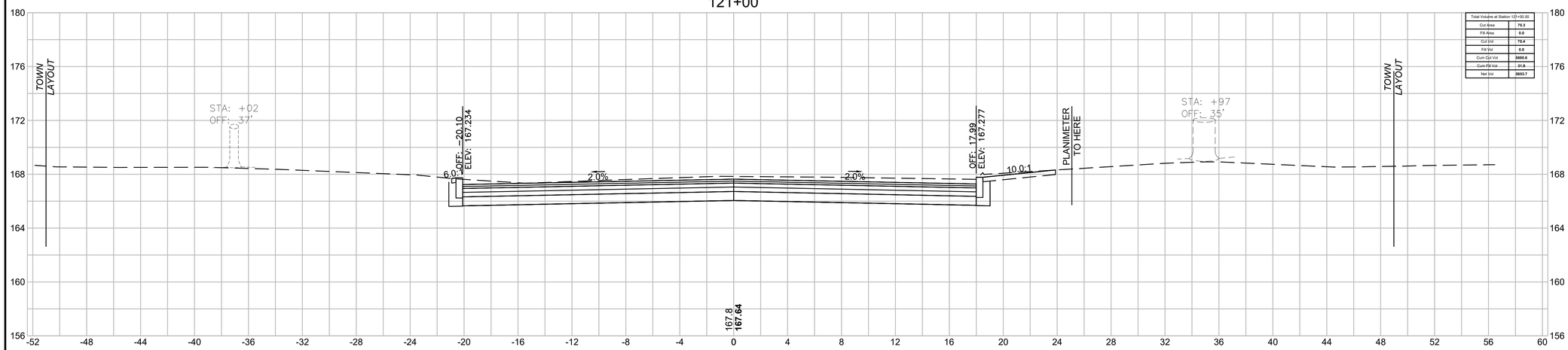
20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:04 AM

121+25



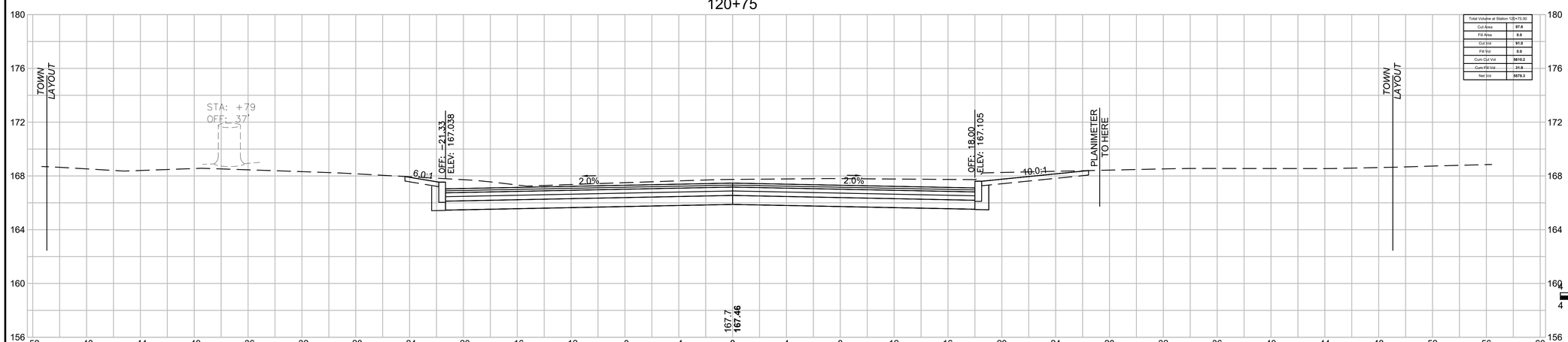
Total Volume at Station 121+25.00	
Cut Area	69.1
Fill Area	0.0
Cut Vol	71.9
Fill Vol	0.0
Cum Cut Vol	5707.8
Cum Fill Vol	31.9
Net Vol	5725.7

121+00



Total Volume at Station 121+00.00	
Cut Area	70.3
Fill Area	0.0
Cut Vol	75.4
Fill Vol	0.0
Cum Cut Vol	5669.6
Cum Fill Vol	31.9
Net Vol	5653.7

120+75



Total Volume at Station 120+75.00	
Cut Area	87.6
Fill Area	0.0
Cut Vol	91.0
Fill Vol	0.0
Cum Cut Vol	5610.2
Cum Fill Vol	31.9
Net Vol	5578.3

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

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	189	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - CONVERSE STREET

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:04 AM

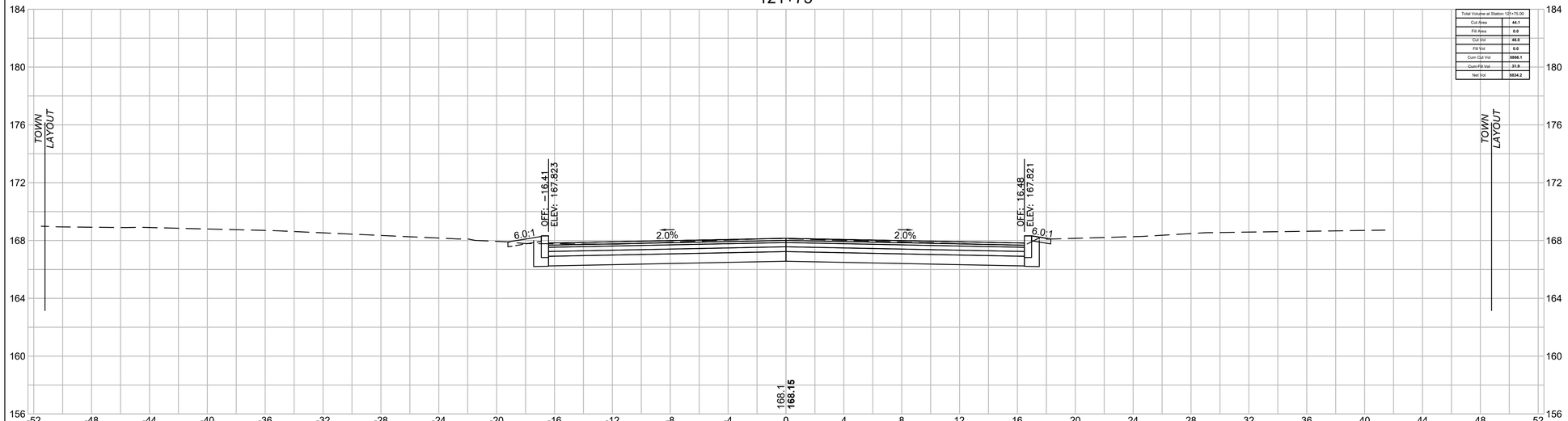
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	190	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - CONVERSE STREET

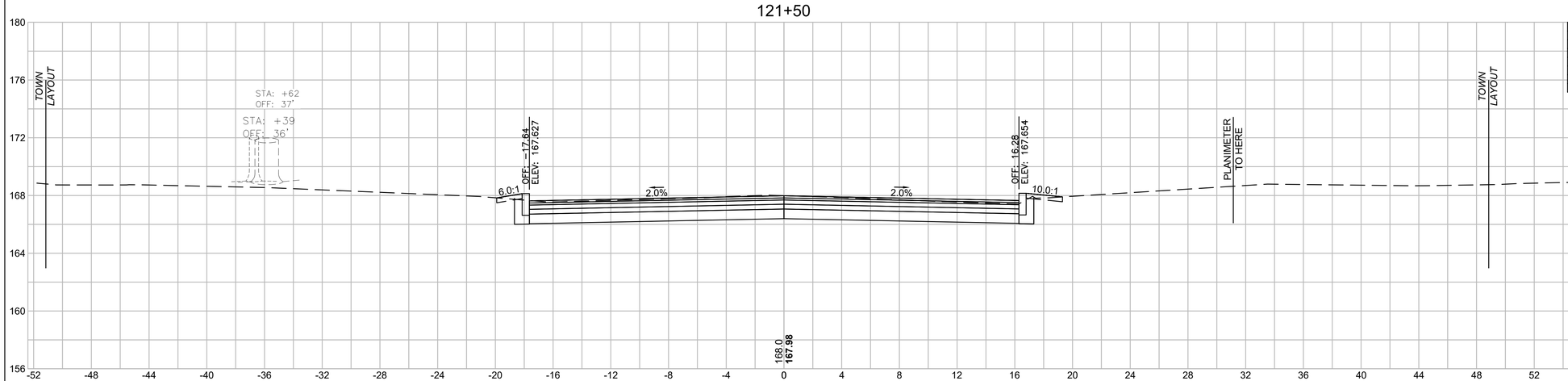
Plotted on 18-Jun-2025 10:05 AM
20170404A10_XSEC01_CONVERSE.DWG

121+75



Total Volume at Station 121+75.00	
Cut Area	44.1
Fill Area	0.0
Cut Vol	46.0
Fill Vol	0.0
Cum Cut Vol	5666.1
Cum Fill Vol	31.9
Net Vol	5634.2

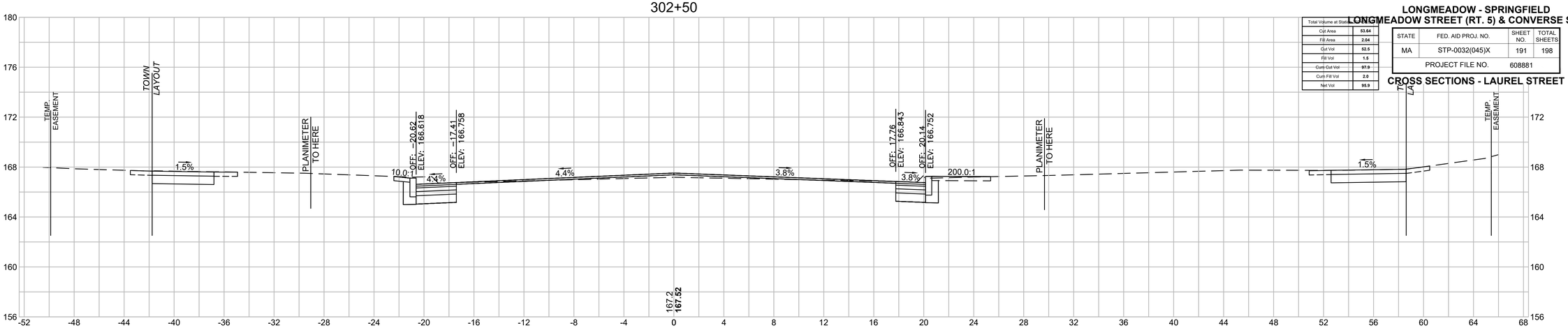
121+50



Total Volume at Station 121+50.00	
Cut Area	96.1
Fill Area	0.0
Cut Vol	92.6
Fill Vol	0.0
Cum Cut Vol	5820.2
Cum Fill Vol	31.9
Net Vol	5788.3

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

302+50



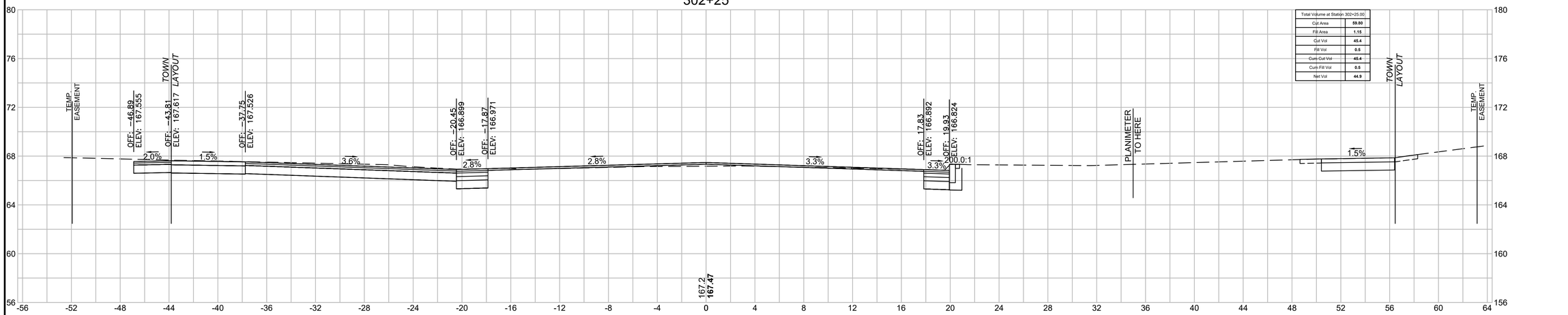
Total Volume at Station 302+50.00	
Cut Area	53.64
Fill Area	2.04
Cut Vol	52.5
Fill Vol	1.5
Cum Cut Vol	97.9
Cum Fill Vol	2.0
Net Vol	95.9

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	191	198
PROJECT FILE NO.	608881		

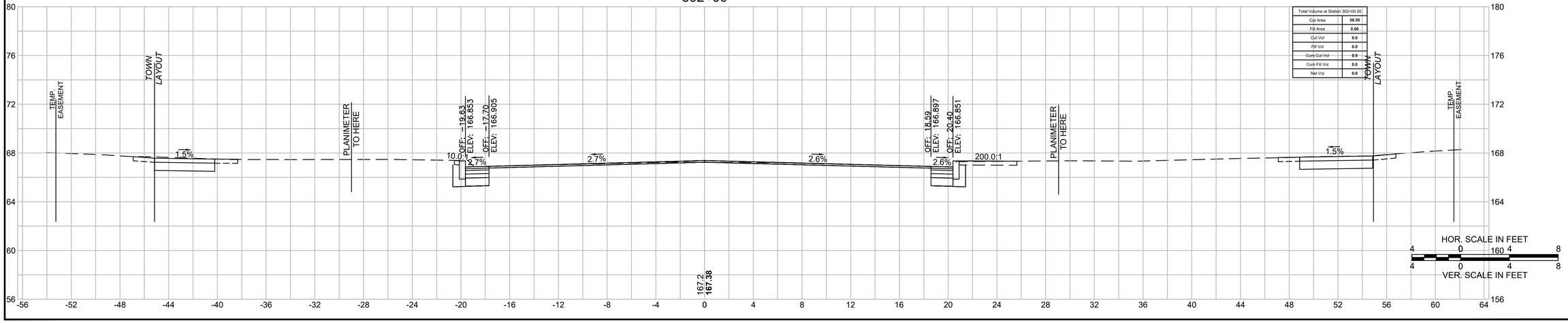
CROSS SECTIONS - LAUREL STREET

302+25



Total Volume at Station 302+25.00	
Cut Area	59.80
Fill Area	1.15
Cut Vol	45.4
Fill Vol	0.5
Cum Cut Vol	45.4
Cum Fill Vol	0.5
Net Vol	44.9

302+00



Total Volume at Station 302+00.00	
Cut Area	38.30
Fill Area	0.00
Cut Vol	0.0
Fill Vol	0.0
Cum Cut Vol	0.0
Cum Fill Vol	0.0
Net Vol	0.0

HOR. SCALE IN FEET
4 0 160 4 8
VER. SCALE IN FEET
4 0 4 8

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:06 AM

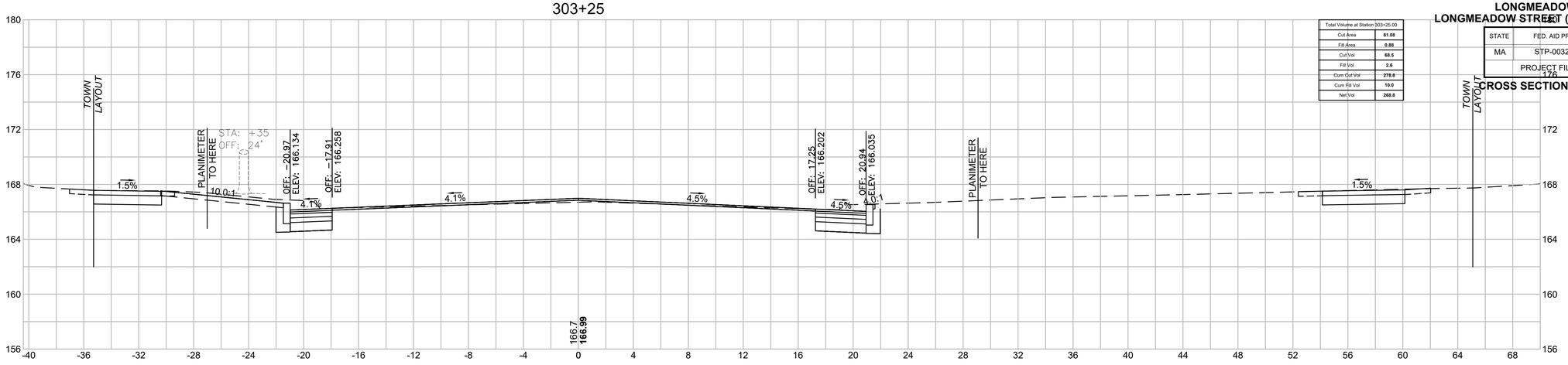
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	192	198
	PROJECT FILE NO. 608881		

CROSS SECTIONS - LAUREL STREET

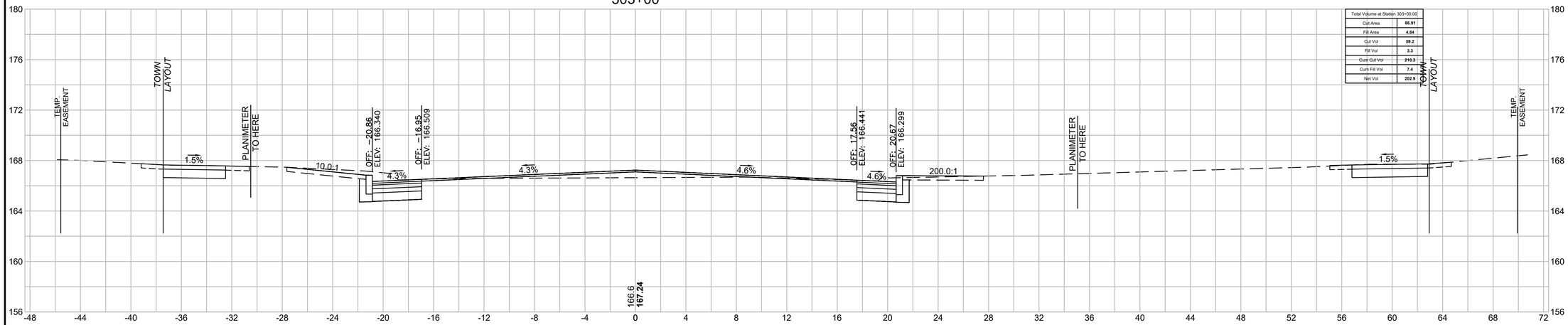
303+25

Total Volume at Station 303+25.00	
Cut Area	91.08
Fill Area	0.88
Cut Vol	66.5
Fill Vol	2.6
Curb Cut Vol	278.8
Curb Fill Vol	10.0
Net Vol	268.8



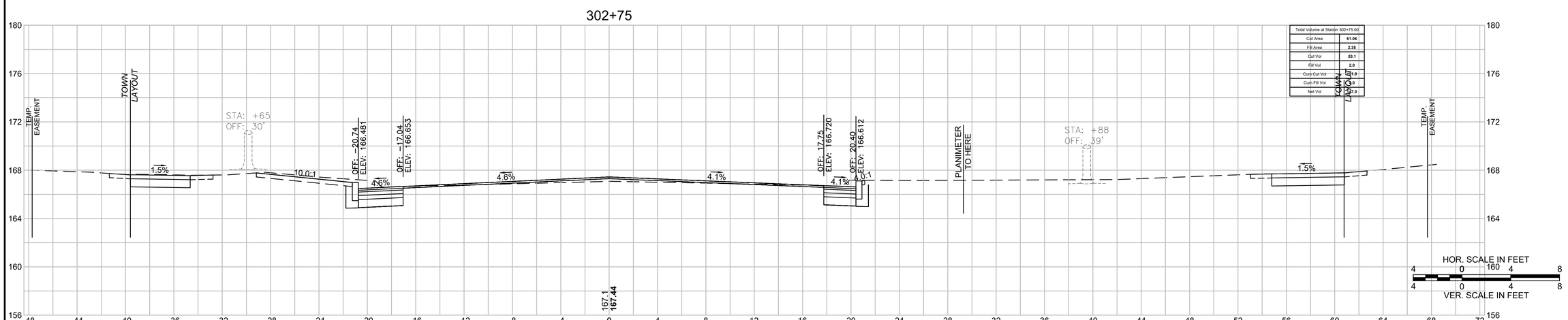
303+00

Total Volume at Station 303+00.00	
Cut Area	66.91
Fill Area	4.84
Cut Vol	59.2
Fill Vol	3.3
Curb Cut Vol	210.3
Curb Fill Vol	7.4
Net Vol	202.9



302+75

Total Volume at Station 302+75.00	
Cut Area	61.06
Fill Area	2.35
Cut Vol	53.1
Fill Vol	2.5
Curb Cut Vol	191.9
Curb Fill Vol	5.9
Net Vol	187.9



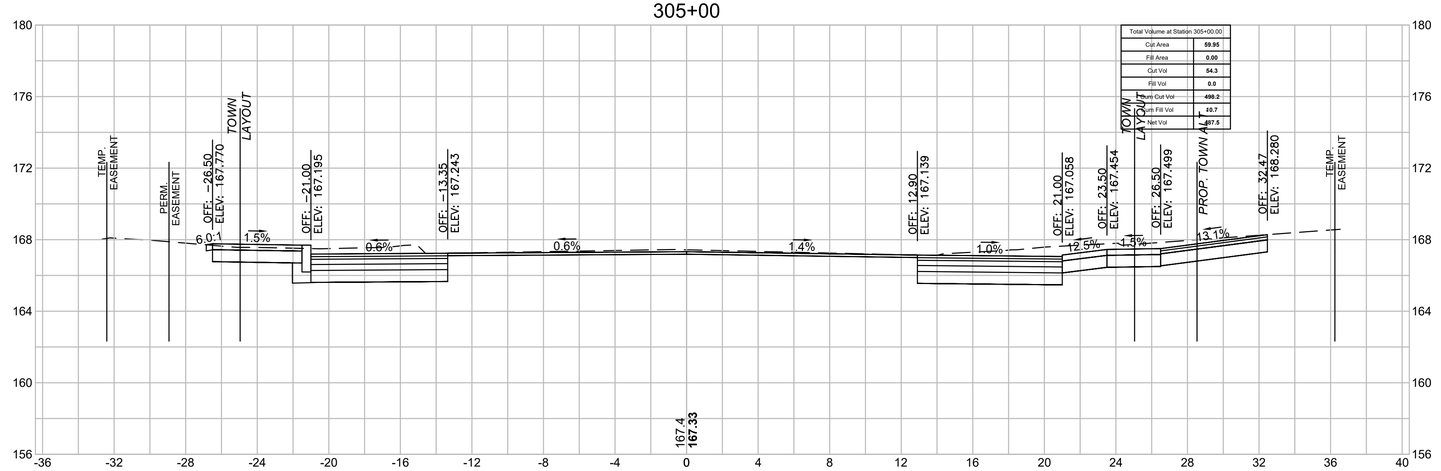
20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:07 AM

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

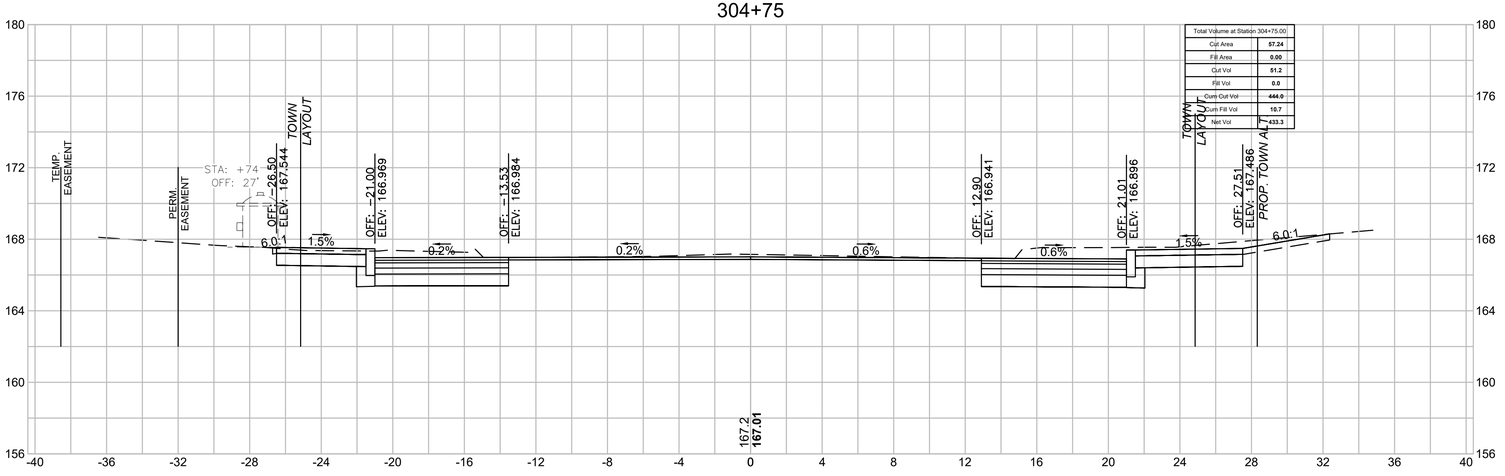
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	193	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - LAUREL STREET

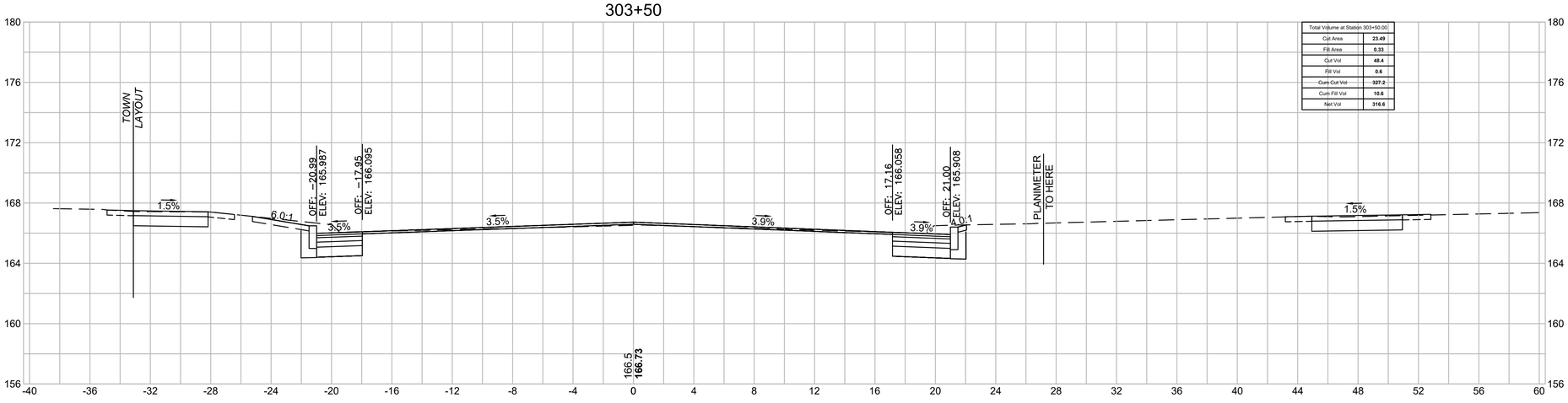
305+00



304+75



303+50



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

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:08 AM

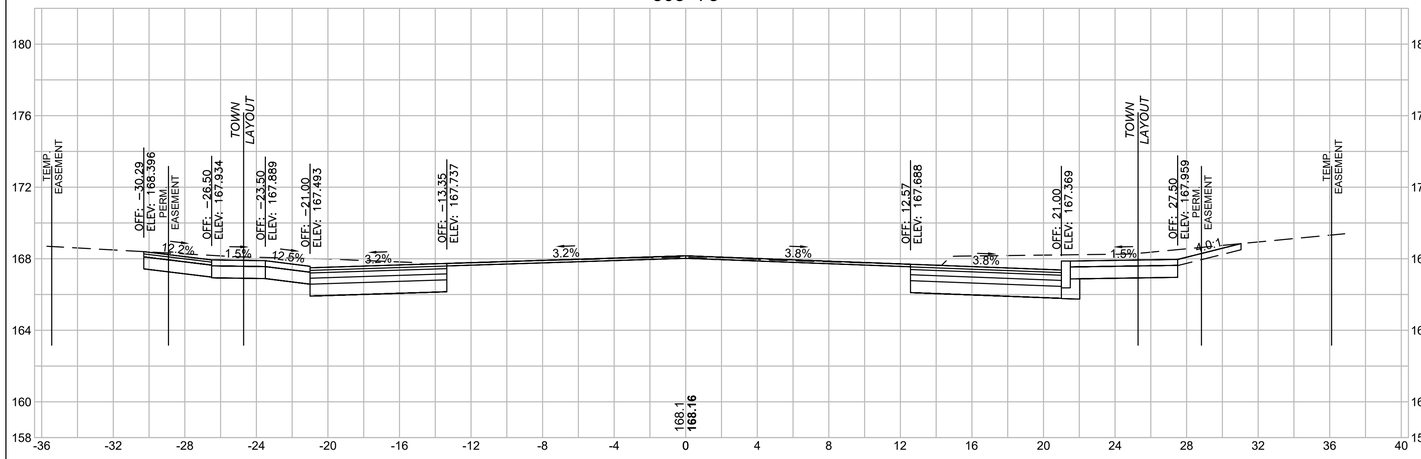
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	194	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - LAUREL STREET

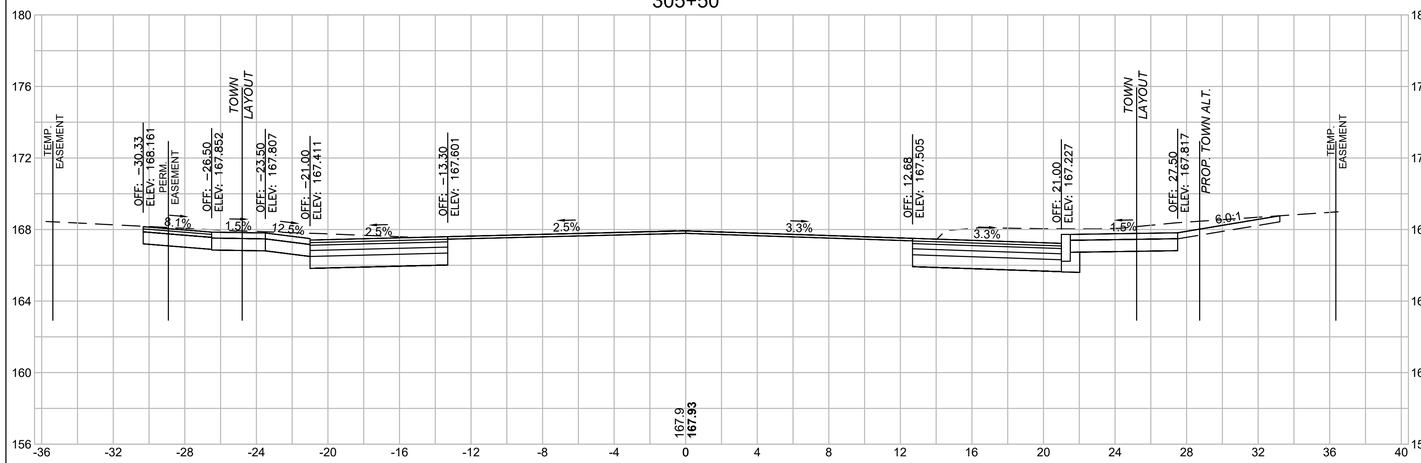
Plotted on 18-Jun-2025 10:09 AM
20170404A10_XSEC01_CONVERSE.DWG

305+75



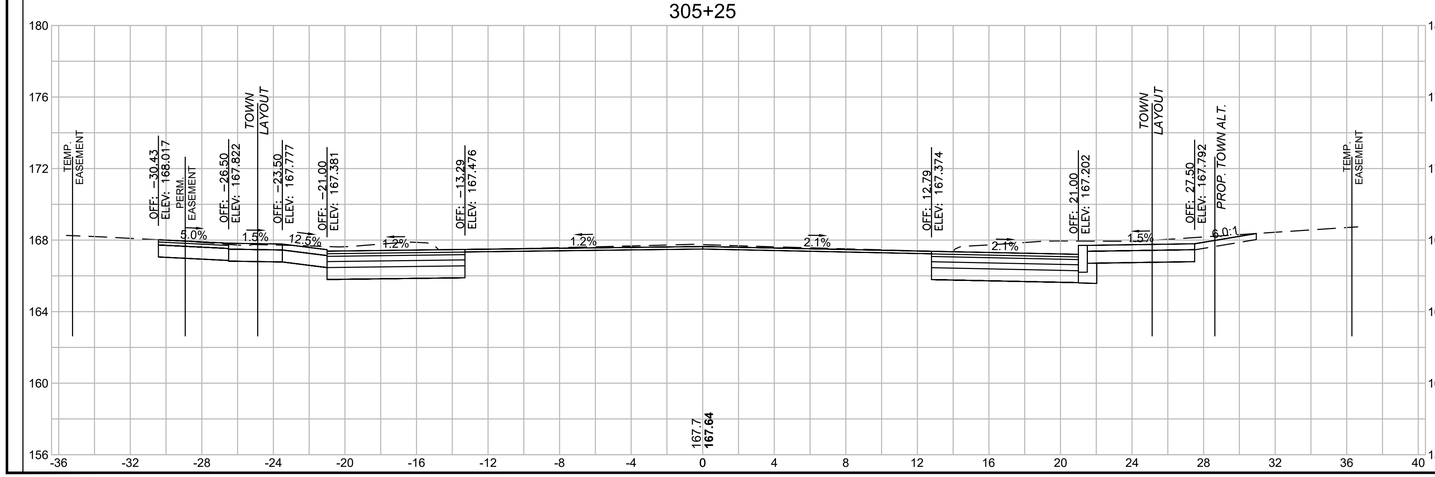
Total Volume at Station 305+75.00	
Cut Area	**58.23**
Fill Area	**0.00**
Cut Vol	**53.2**
Fill Vol	**0.0**
Cum Cut Vol	**657.5**
Cum Fill Vol	**10.7**
Net Vol	**646.7**

305+50



Total Volume at Station 305+50.00	
Cut Area	**56.74**
Fill Area	**0.00**
Cut Vol	**52.3**
Fill Vol	**0.0**
Cum Cut Vol	**604.2**
Cum Fill Vol	**10.7**
Net Vol	**593.5**

305+25



Total Volume at Station 305+25.00	
Cut Area	**56.14**
Fill Area	**0.00**
Cut Vol	**53.7**
Fill Vol	**0.0**
Cum Cut Vol	**552.0**
Cum Fill Vol	**10.7**
Net Vol	**541.3**

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

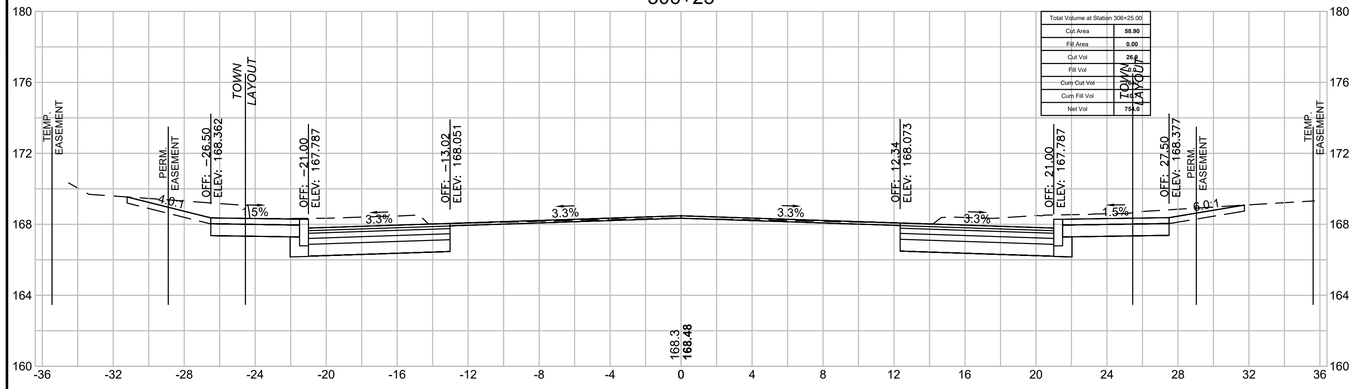
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	195	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - LAUREL STREET

20170404A10_XSEC01_CONVERSE.DWG Plotted on 18-Jun-2025 10:11 AM

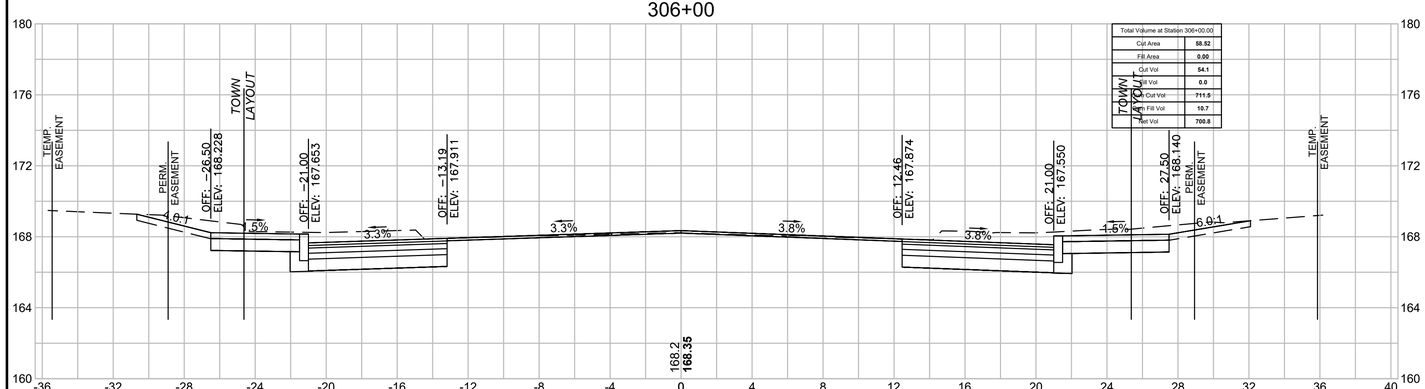
306+25



306+12.39



306+00



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

LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

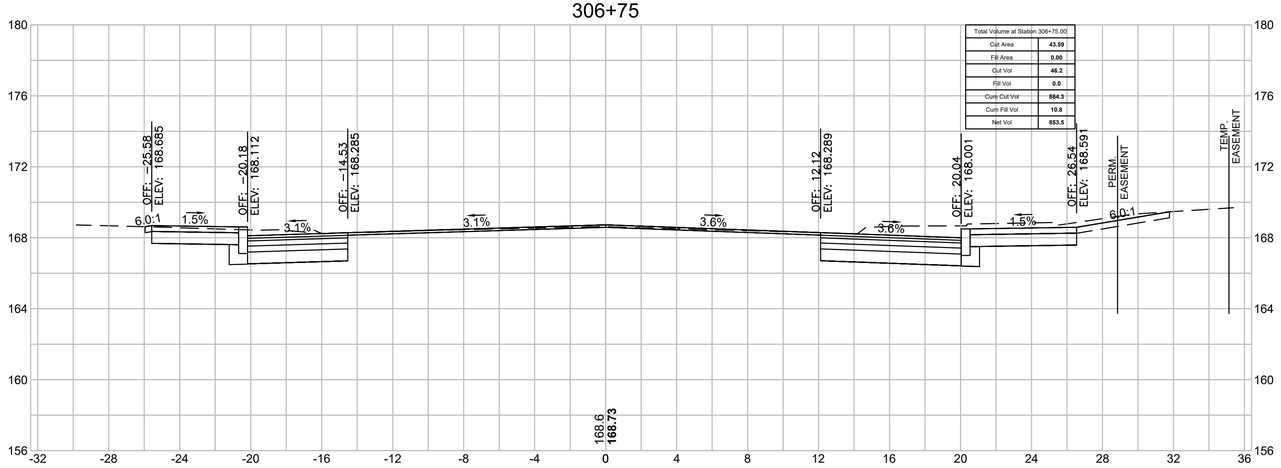
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	196	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - LAUREL STREET

Plotted on 18-Jun-2025 10:12 AM
20170404A10_XSEC01_CONVERSE.DWG

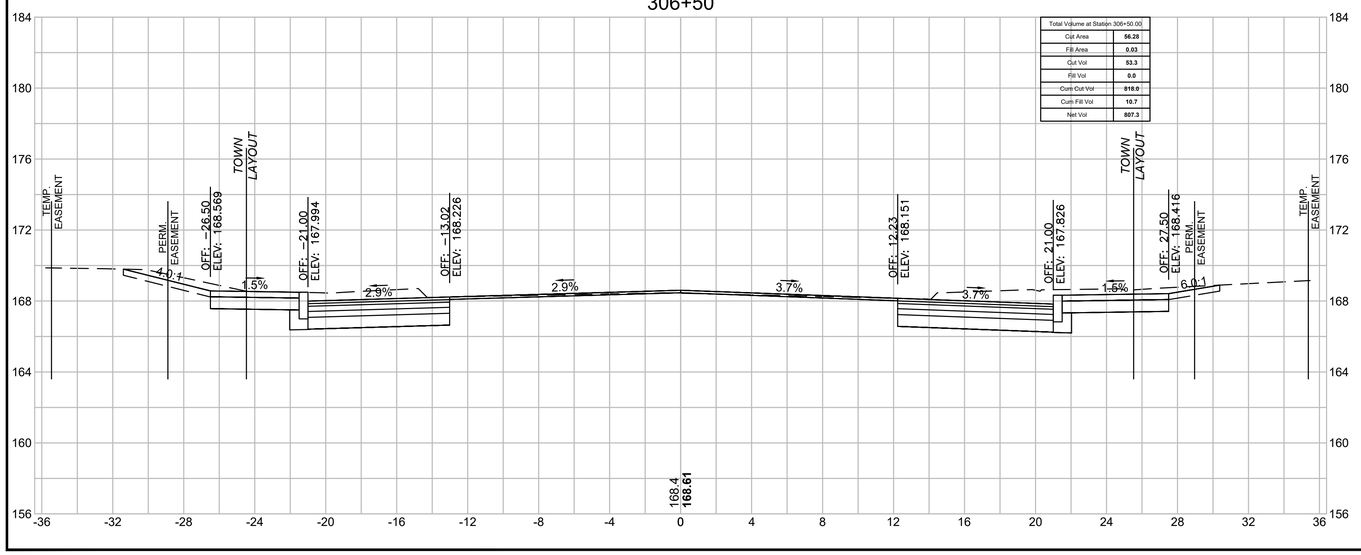
306+75

Total Volume at Station 306+75.00	
Cut Area	43.59
Fill Area	0.00
Cut Vol	46.2
Fill Vol	0.0
Cum Cut Vol	864.3
Cum Fill Vol	10.8
Net Vol	853.5



306+50

Total Volume at Station 306+50.00	
Cut Area	56.28
Fill Area	0.03
Cut Vol	53.3
Fill Vol	0.0
Cum Cut Vol	818.0
Cum Fill Vol	10.7
Net Vol	807.3



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

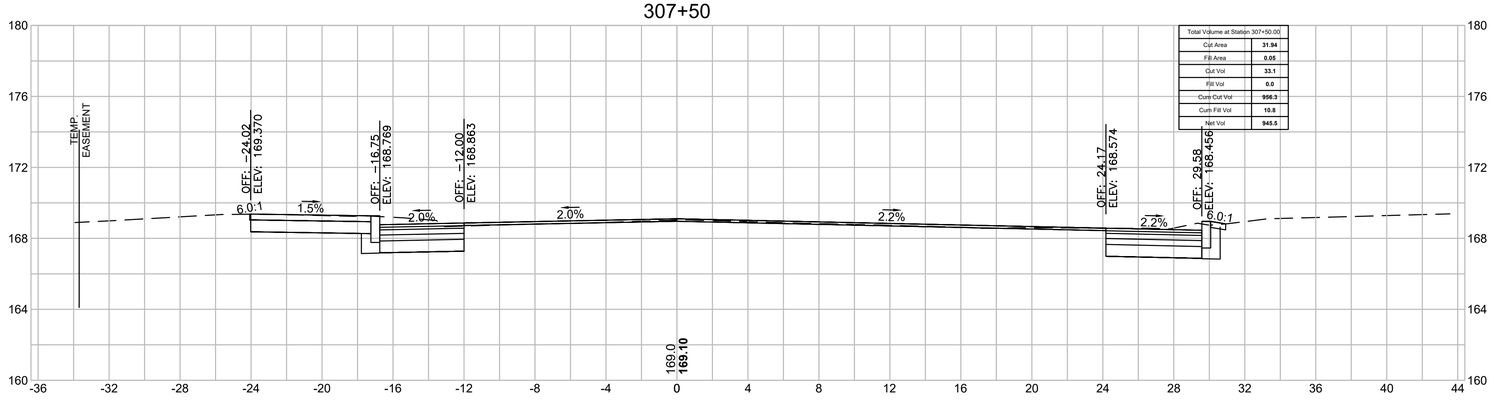
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	197	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - LAUREL STREET

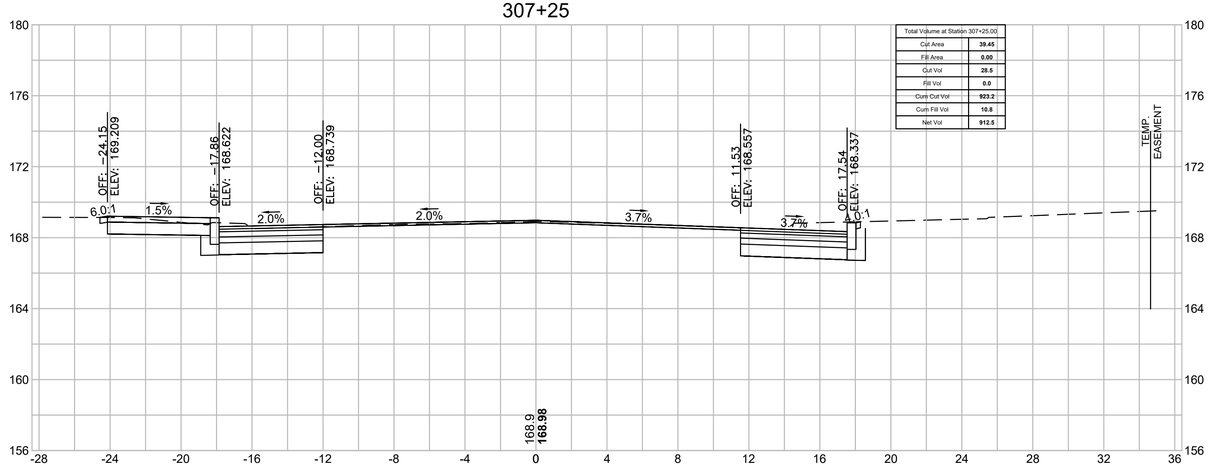
Plotted on 18-Jun-2025 10:13 AM
20170404A10_XSEC01_CONVERSE.DWG

307+50



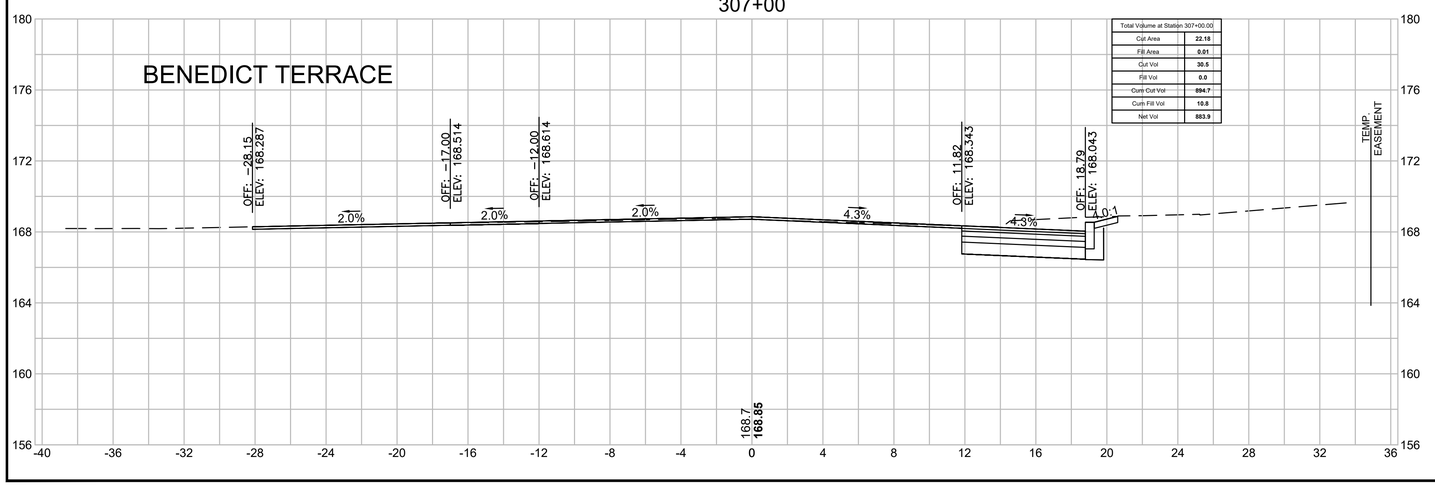
Total Volume at Station 307+50.00	
Cut Area	31.94
Fill Area	0.05
Cut Vol	33.1
Fill Vol	0.0
Curb Cut Vol	956.3
Curb Fill Vol	10.8
Net Vol	945.5

307+25



Total Volume at Station 307+25.00	
Cut Area	39.45
Fill Area	0.00
Cut Vol	28.5
Fill Vol	0.0
Curb Cut Vol	923.2
Curb Fill Vol	10.8
Net Vol	912.6

307+00



Total Volume at Station 307+00.00	
Cut Area	22.18
Fill Area	0.01
Cut Vol	30.5
Fill Vol	0.0
Curb Cut Vol	894.7
Curb Fill Vol	10.8
Net Vol	883.9

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

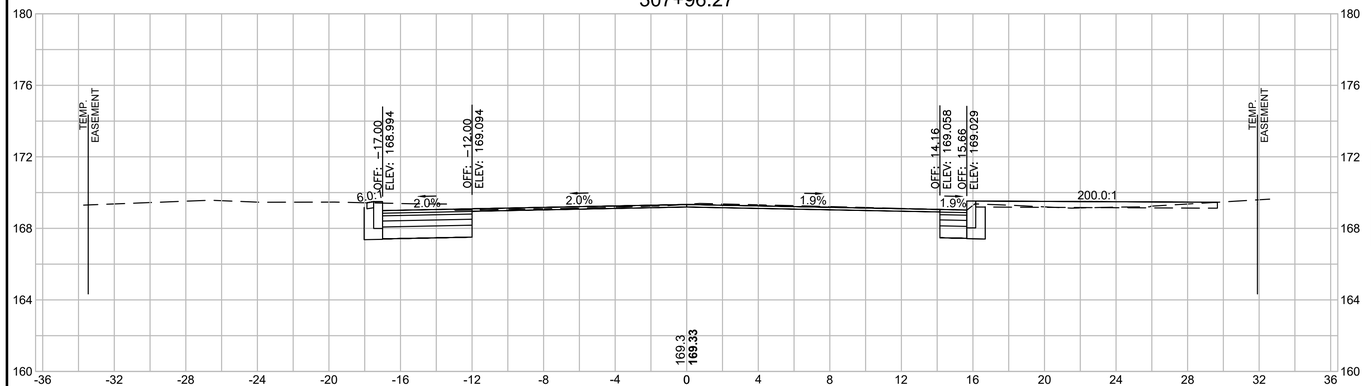
LONGMEADOW - SPRINGFIELD
LONGMEADOW STREET (RT. 5) & CONVERSE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0032(045)X	198	198
PROJECT FILE NO.	608881		

CROSS SECTIONS - LAUREL STREET

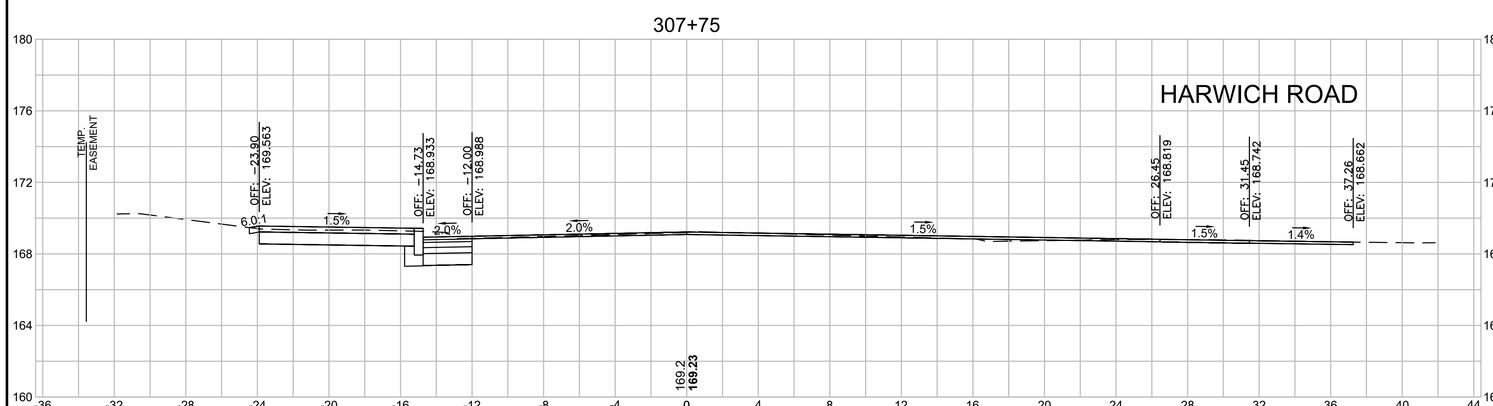
Plotted on 18-Jun-2025 10:13 AM
20170404A10_XSEC01_CONVERSE.DWG

307+96.27



Total Volume at Station 307+96.27	
Cut Area	17.40
Fill Area	0.00
Cut Vol	14.7
Fill Vol	0.0
Cum Cut Vol	995.1
Cum Fill Vol	10.8
Net Vol	984.3

307+75



Total Volume at Station 307+75.00	
Cut Area	20.05
Fill Area	0.00
Cut Vol	24.1
Fill Vol	0.0
Cum Cut Vol	980.4
Cum Fill Vol	10.8
Net Vol	969.5

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