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2026 FEB -2 P 4: 03

CITY OF AMESBURY
IN THE YEAR TWO THOUSAND TWENTY-SIX

SPONSORED BY: Kassandra Gove **BILL No. 2026-037**
Kassandra Gove, Mayor

An Order to authorize the Mayor to accept and expend FY26 MassWorks grant in the amount of \$3,600,000 to support infrastructure improvements on Route 110 at Elm Street and Clarks Road.

Summary: This MassWorks-funded project will improve Route 110 (Macy Street) between Elm Street/Clark's Road and the I-95 southbound off-ramp, including roadway, intersection, and traffic signal upgrades in Amesbury and Salisbury.

The work includes multimodal transportation and utility infrastructure improvements to support the Rocky Hill multi-family residential development at 283 Elm Street and additional housing projects, including roadway widening, water line upgrades, new sidewalks, ADA-compliant curb ramps and crosswalks, shared-use path improvements, paving, signage, and pavement markings.

Be it Ordered by the City Council of the City of Amesbury assembled, and by the authority of the same as follows:

That the City of Amesbury authorizes the Mayor to accept and expend FY26 MassWorks grant in the amount of \$3,600,000 to support the infrastructure improvements on Route 110 at Elm Street and Clark's Road.

Title **Amesbury** 01/30/2026
by **Pam Tobey** in **FY26 MassWorks Pre-Contract Form** id. 53006295
tobey@amesburyma.gov

Original Submission 01/30/2026

1. General Information

City/Town Amesbury
Project Name Amesbury - Rte 110 at Elm St/Clarks Rd Improvement
Grant Award Amount 3600000
Project Type Construction and Small Town Road Improvements

2. Public Entity (Contractor) Information

Public Entity Identification

Public Entity Legal Name City of Amesbury
Legal Address 1 Market Street
City Amesbury
State Massachusetts
Zip Code 01913
State Vendor Code

Chief Elected/Executive Officer (CEO) Identification

CEO Name **Kassandra Gove**
CEO Title Mayor
CEO Email govek@amesburyma.gov
CEO Phone Number +19783888121

Is the contract manager someone different from the CEO? Yes

Contract Manager Designation

Contract Manager Name	Joseph Buckley
Contract Manager Title	Director of Public Works
Contract Manager Email	buckleyj@amesburyma.gov
Contract Manager Phone Number	+19782259574
Design Completion Status	50

Site Description

Describe the limits of work for the public project.	The Route 110 (Macy Street) at Elm Street & Clark's Road Intersection and the Route 110 (Macy Street) at the I-95 southbound off-ramp improvements begin 500 feet west of Elm Street and Clarks Road and continues easterly for 1,400 feet to a point 900 feet past the Elm Street and Clarks Road intersection. The project also includes traffic signal modifications at Route 110 (Macy Street) and the driveway to the Carriagetown Market Place Shopping Center. A third segment of the project includes signal modifications at the intersection of Route 110 (Elm Street) at Merrill Street and Rabbit Road, in the Town of Salisbury.
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Scope of Work Description

Provide a detailed description of the scope of work for the public project.

The scope includes the construction of multi-modal transportation and utility infrastructure improvements as required to support the 375-unit Rocky Hill Multi-family Residential project located at 283 Elm Street in Amesbury and two additional housing developments. The work will include traffic signal improvements, roadway widen, utility upgrades (water line), new sidewalks, reconstruction of a segment of the Ghost Trail Shared Use Path (SUP), new ADA compliant curb ramps and crosswalks, new granite curbing, hot mix asphalt paving, and new signs and pavement markings.

Specifically, the work will include:

- One (1) – Traffic signal reconstruction (Rte 110/Elm St/Clarks Rd)
- One (1) – New traffic signal (Rte 110/Southbound I-95 Off-ramp)
- Two (2) – Signal upgrades (Rte 110/Market Place & Rte 110/Rabbit Rd/Merrill St)
- 200 feet of 12-inch waterline replacement
- 1,750 feet of new sidewalk
- 400 feet of reconstructed Shared Use Path
- 2,175 feet of granite curbing
- 2,000 feet of hot mix asphalt paving
- 3,800 feet of pavement markings
- 12 – ADA compliant curb ramps

Project Milestones, Spending Plan, and Budget

Upload Table for Milestone, Spending, and Budget

[MassWorks_Pre-Contract_Tables_Completed.pdf](#)

Private Development

Please identify the leveraged private development(s) associated with the public project. For small-town road projects (STRAP), grantees may type N/A.

Developer/Owner: Dale Development

- Rocky Hill Amesbury, 283 Elm Street, Amesbury, MA 01913
- Accessors Map 68-Lots 12,13,15 & 20; and Map 80-Lots 3 & 4
- Residential Housing – Rentals: 94 Affordable Units and 517 Market Rate Units
- Residential Housing – Ownership: 9 Affordable Units and 77 Market Rate Units
- Retail Space – 2,374 square feet
- Full Time Jobs – 15
- Part Time Jobs - 25

Site Plan Attach a site plan for the public project. A site plan must be submitted, regardless of whether the same file was included in your grant application.

Attach file(s) below.

[2026_01_29_Design_Plans_For_Precontract_10269.pdf](#)

Procurement Procedure

Public Works

Procurement Documentation

[Signed_Procurement_Letter.pdf](#)

You are about to submit your form. Please review your answers and materials. Please double check that all attachments are correct and current. What to expect You will receive an email confirmation once your form is submitted. All notifications will be sent to the email address associated with your Submittable account/login. If you do not receive a confirmation email, please try the following: Be sure that you have submitted the form and that it is not still saved as a draft. Check which email address you used to set up your Submittable account. Be sure that this email address has been entered correctly. Check the junk/spam filters for your email account. Be sure to safelist notification emails from Submittable.

I have reviewed this form in full for accuracy and completion.

checked



MassWorks Pre-Contract Form Project Milestones

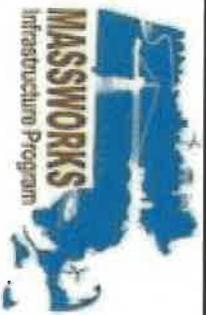
Phase	Milestone	MM-YYYY
Pre-Development Phase	25% Design	Completed
	50% Design	Completed
	75% Design	2/27/2026
	100% Design	5/1/2026
	Permitting Complete	6/1/2026
	Bid Plans and Specifications Complete	6/1/2026
	Design, Survey, and Engineering Complete	6/1/2026
	Bids Opened	7/2/2026
	Bidding Complete	7/30/2026
	Construction Mobilization	8/13/2026
Construction Phase	Construction 25% Complete	12/31/2026
	Construction 50% Complete	6/30/2027
	Construction 75% Complete	9/30/2027
	Construction 100% Complete	12/1/2027

Type N/A for any milestone not applicable



MassWorks Pre-Contract Form Budget Sheet

Spending Category Line Item	MassWorks Grant Funds Uses	Match Funds Uses	Totals
Design / Engineering / Bidding	0.00	360,000.00	360,000.00
Construction			
Land Takings	0.00	0.00	0.00
Demolition/Remediation	0.00	0.00	0.00
Mobilization/Demobilization	75,000.00	0.00	75,000.00
Water/Sewer/Drainage (include pump stations)	400,000.00	0.00	400,000.00
Utility Relocation	60,000.00	0.00	60,000.00
Roadways (include paving, markings, signage, etc.)	1,071,000.00	0.00	1,071,000.00
Sidewalks/Curbing/Streetscapes (include fencing, plantings, etc.)	279,000.00	0.00	279,000.00
Electrical/Lighting (street lights and traffic signals)	665,000.00	0.00	665,000.00
Bridges/Culverts	0.00	0.00	0.00
Contingency	500,000.00	0.00	500,000.00
Other:	0.00	0.00	0.00
Soft Costs			
Construction Administration/Project Management	300,000.00	0.00	300,000.00
Traffic Control/Public Safety Details	250,000.00	0.00	250,000.00
Other:	0.00	0.00	0.00
Other:	0.00	0.00	0.00
Grand Total	3,600,000.00	360,000.00	3,960,000.00



MassWorks Pre-Contract Form Spending Timeline

FISCAL YEAR TOTALS	Projected Drawdown Amount
FY26 Q1 (Jul-Sep)	N/A
FY26 Q2 (Oct-Dec)	750,000.00
FY26 Q3 (Jan-Mar)	150,000.00
FY26 Q4 (Apr-Jun)	1,500,000.00
FY26 Total (Award year)	2,400,000.00
FY27 Q1 (Jul-Sep)	1,000,000.00
FY27 Q2 (Oct-Dec)	200,000.00
FY27 Q3 (Jan-Mar)	0.00
FY27 Q4 (Apr-Jun)	0.00
FY27 Total (Year 1)	1,200,000.00
FY28 Q1 (Jul-Sep)	0.00
FY28 Q2 (Oct-Dec)	0.00
FY28 Q3 (Jan-Mar)	0.00
FY28 Q4 (Apr-Jun)	0.00
FY28 Total (Year 2)	0.00
FY29 Q1 (Jul-Sep)	0.00
FY29 Q2 (Oct-Dec)	0.00
FY29 Q3 (Jan-Mar)	0.00
FY29 Q4 (Apr-Jun)	0.00
FY29 Total (Year 3)	0.00
Grand Total (Grant Award Amount)	3,600,000.00

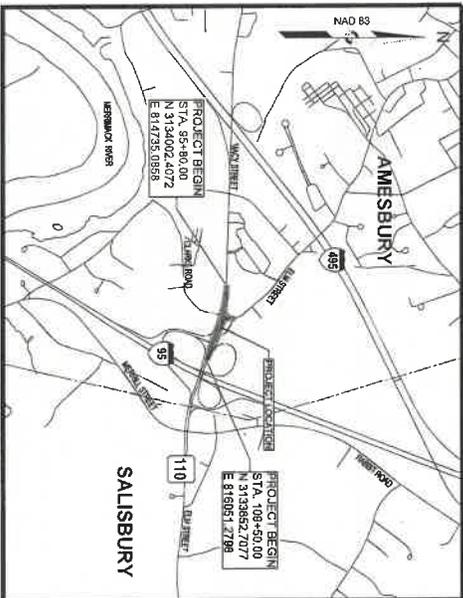
TRANSPORTATION IMPROVEMENT PROJECT

PLAN AND PROFILE OF
MACY STREET (ROUTE 110)
IN THE CITY OF
AMESBURY
ESSEX COUNTY
THE COMMONWEALTH OF MASSACHUSETTS

THE COMMONWEALTH OF MASSACHUSETTS

25% SUBMITTAL

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
3	GENERAL NOTES
4	NET PLAN
5-7	TYPICAL SECTIONS
8-10	CONSTRUCTION PLANS
11	PROFILES
12-14	PAVEMENT LAYERS & SLOPING PLANS
15	SOIL SUMMARY
16-21	TRAFFIC SIGNAL PLANS
22-24	TEMPORARY TRAFFIC CONTROL PLANS
25-26	CROSS SECTIONS



LENGTH OF PROJECT = 1,370.00 FEET = 0.259 MILES

PREPARED FOR:
CITY OF AMESBURY
39 S HUNT ROAD
AMESBURY, MA 01913

AMESBURY			
MACY STREET (ROUTE 110)			
STATE	WARRANT NO.	NO. SHEETS	TOTAL SHEETS
MA	10289	1	25
REVIEW PROJECT NO.		1	
TITLE SHEET & INDEX			

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING REGULATIONS, 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 OVERHEAD SIGNAL LIGHTING, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND SIGNAL DRAWINGS, AND THE ANSI/AMERICAN STANDARD FOR NURSERY STOCK.

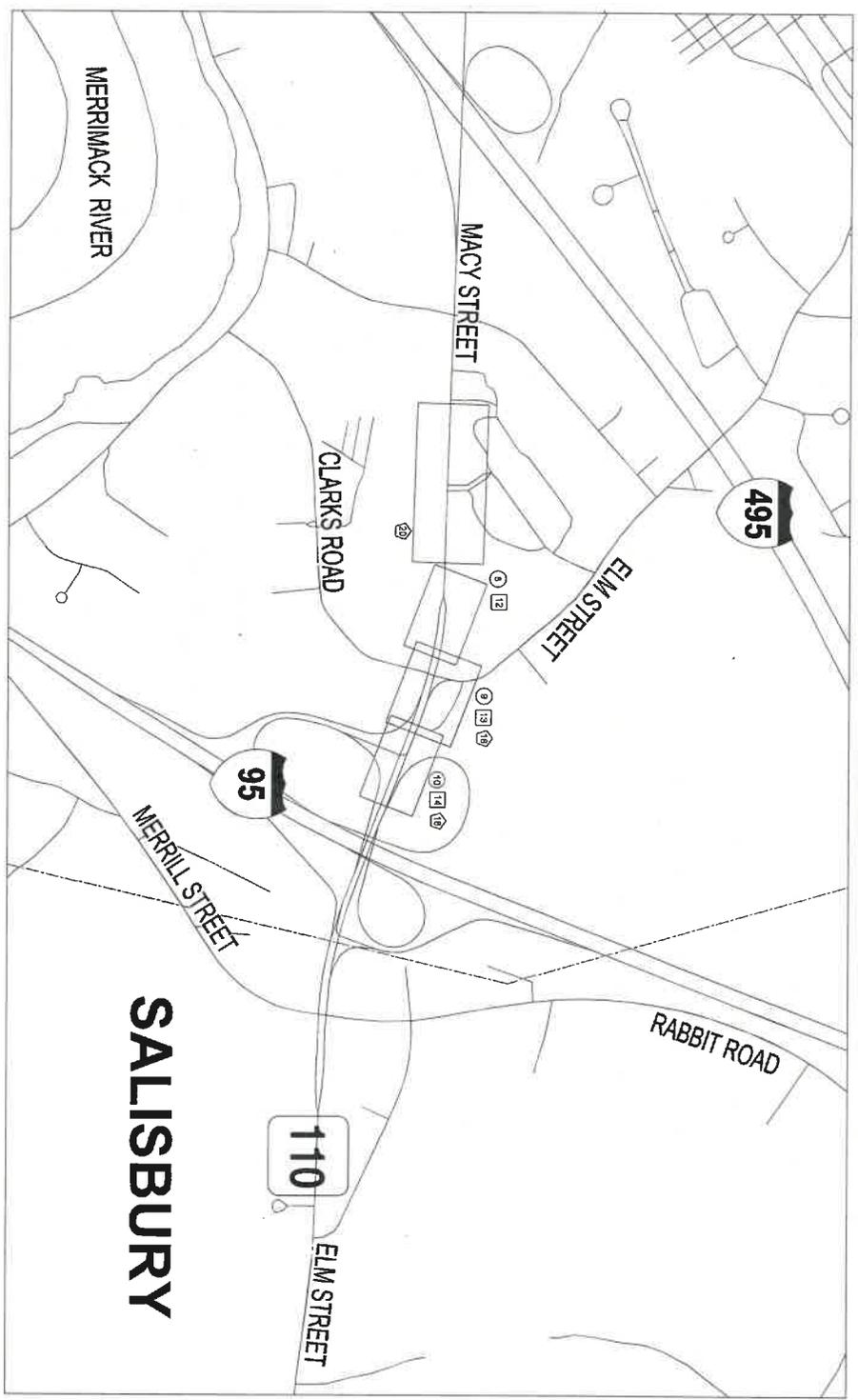
DESIGN DESIGNATION - MACY STREET (ROUTE 110)

DESIGN SPEED	40 MPH
ADT PEAK	35,860 VPD
ADT PEAK	42,300 VPD
ADT	9,720
DESIGN	50% WB
T PEAK HOUR	4.0%
T AVERAGE DAILY	3.0%
PHV	3.867 VPH
CDHV	2.181 VPH
FUNCTIONAL CLASSIFICATION	
URBAN PRINCIPAL ARTERIAL	

DATE	DESCRIPTION	REV #

DESIGNED BY:	MAP	DATE:	REVISIONS
DRAWN BY:	MAP	SCALE:	AS NOTED
CHECKED BY:	DC		

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AMESBURY
MACY STREET (ROUTE 110)
KEY PLAN

DATE	DESIGNED BY	SHEET TOTAL
10/26/20	MSP	4 OF 35
PROJECT NO.	SCALE	
	NOT TO SCALE	

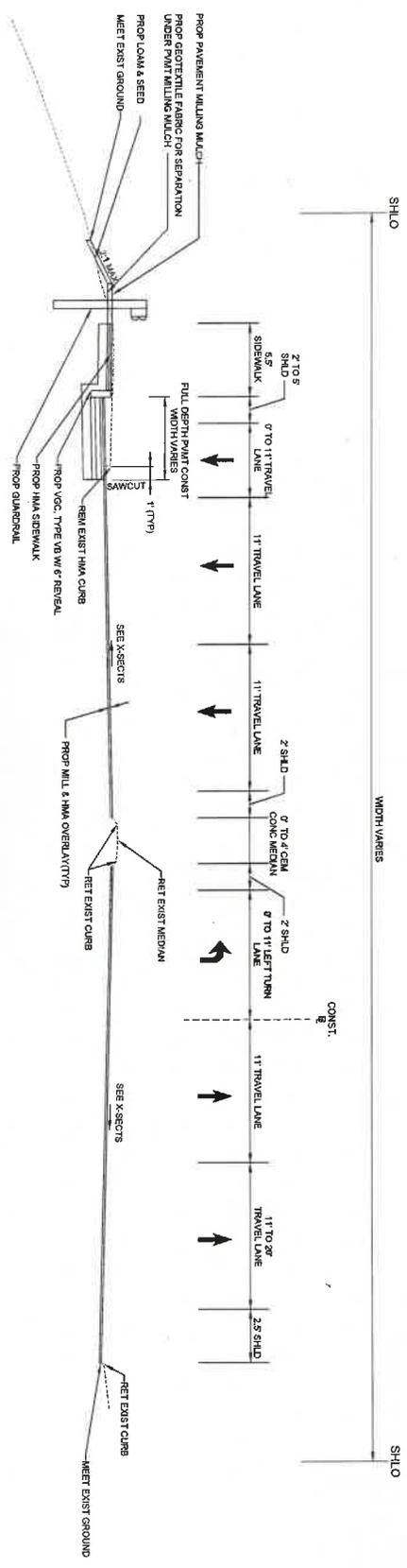
- LEGEND**
- ③ CONSTRUCTION PLANS
 - ② PAVEMENT MARKING & SIGNING PLANS
 - ④ TRAFFIC SIGNAL PLANS

DATE	DESCRIPTION	REV #

DESIGNED BY:	MSP	DATE:	SEPTEMBER 2020
DRAWN BY:	MSP	SCALE:	NOT TO SCALE
CHECKED BY:	JPC		

AMESBURY
 MACY STREET (ROUTE 110)
 STATE PROJECT NO. 1009
 SHEET NO. 5
 PERMIT PROJECT NO. .

TYPICAL SECTIONS



MACY STREET (ROUTE 110)

STA 65+00 TO STA 101+00
 NOT TO SCALE

PAVEMENT NOTES

- PROPOSED FULL DEPTH PAVEMENT**
- SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 (SBC-12.5)
 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 18.0 (SBC-18.0)
 3-1/2" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5)
- SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER
 6" GRAVEL BORROW (MASSDOT M.10.0 TYPE B)
- NOTE: IN FULL DEPTH AREAS - 4" WIDE USE 1/2" HIGH EARLY STRENGTH CEMENT CONCRETE IN LIEU OF 3-1/2" BASE COURSE AND 4" DENSE GRADED CRUSHED STONE.**
- PROPOSED PAVEMENT MILLING & HMA OVERLAY**
- EXCAVATION: 1-3/4" PAVEMENT MILLING
 SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 (SBC - 12.5)
 LIFTING: VARIABLE DEPTH SUPERPAVE LIFTING COURSE - 0.6 (G.C. - 0.9)
 COURSE: VARIABLE DEPTH CROSS SLOPE - SEE CROSS SECTIONS FOR LOCATIONS)
- PROPOSED CEMENT CONCRETE CURB RAMPS**
- SURFACE: 4" CEMENT CONCRETE
 (MINIMUM 9000 PSI 4'-410 LB)
 SUBBASE: 6" GRAVEL BORROW (MASSDOT M.10.0 TYPE B)
- PROPOSED HMA DRIVEWAY**
- SURFACE: 4" HOT MIX ASPHALT (NONMUL)
 1-1/4" STANDBY TOP COURSE OVER
 2-1/2" BINDER COURSE
 SUBBASE: 6" GRAVEL BORROW (MASSDOT M.10.0 TYPE B)

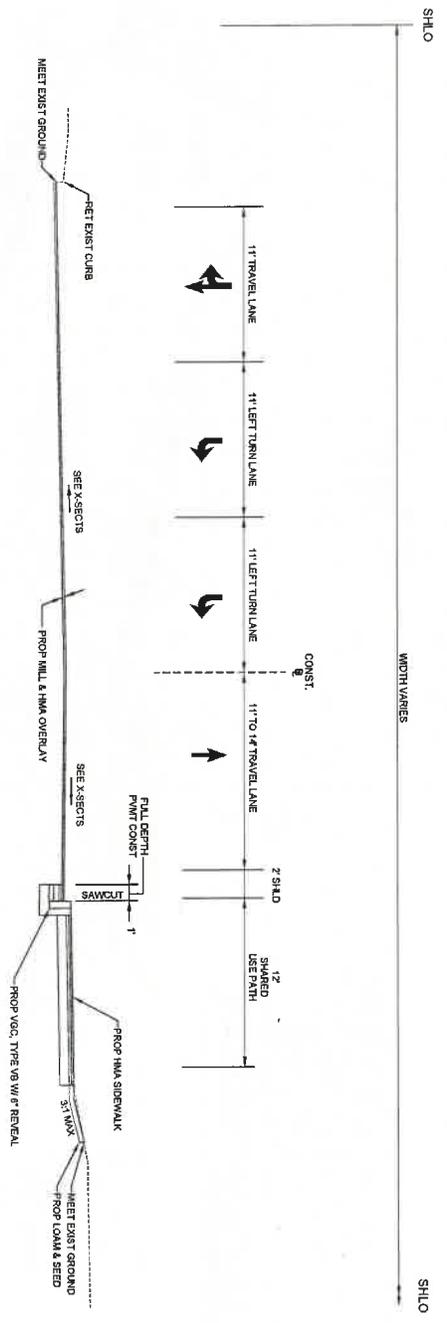
STAMP

DATE	DESCRIPTION	REV.#

DESIGNED BY: MPP DATE: SEPTEMBER 2025
 DRAWN BY: MPP SCALE: NOT TO SCALE
 CHECKED BY: JAC

M. Vannasse & Associates, Inc.
 Transportation Engineering & Planning
 400 North Main Street
 Amesbury, MA 01810

AMERBURY
 MACY STREET (ROUTE 110)
 PLAN
 SHEET NO. 7
 PROJECT PROTECT NO. 10209
 TYPICAL SECTIONS

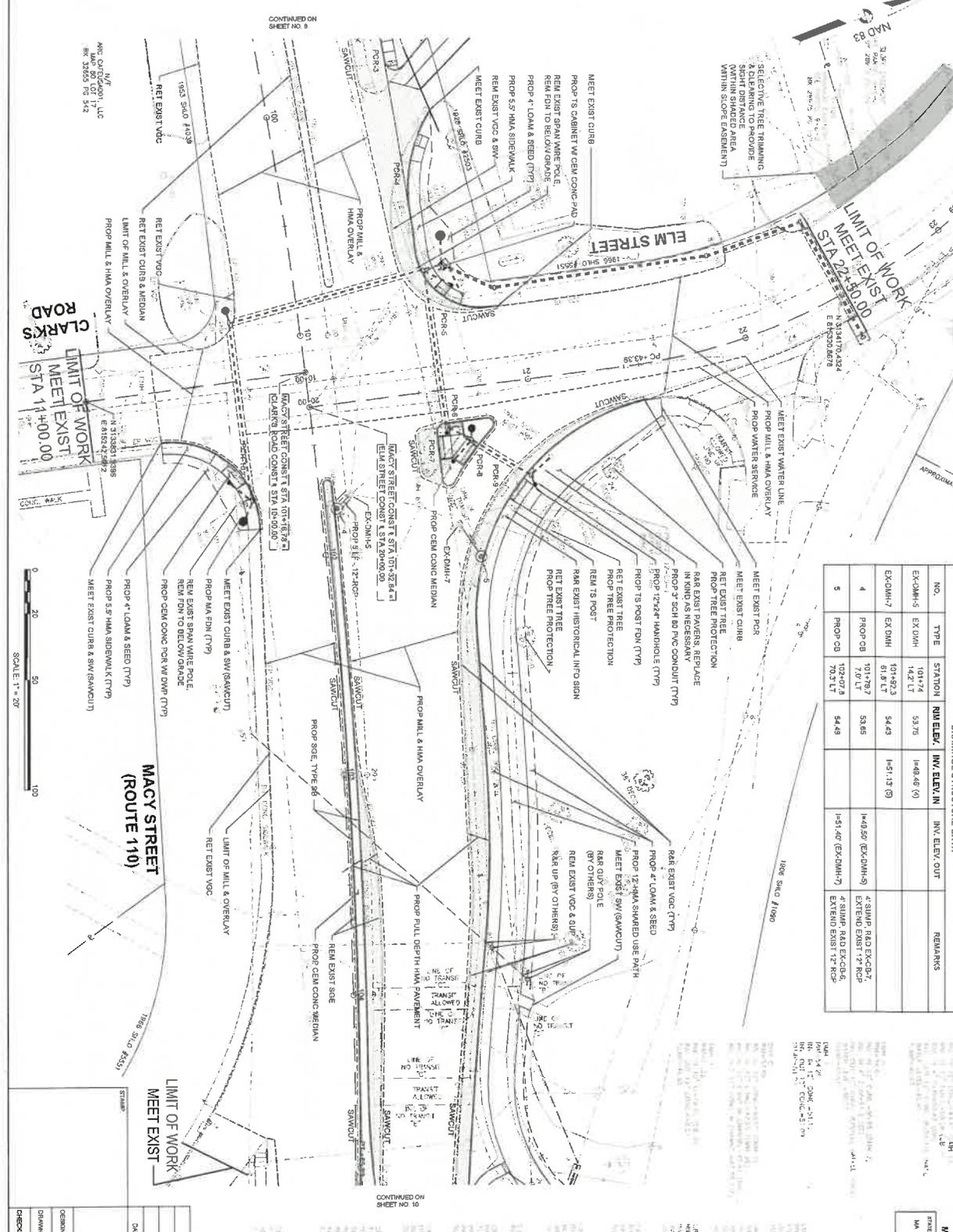


ELM STREET
 STA. 20+90 TO STA. 22+90
 NOT TO SCALE

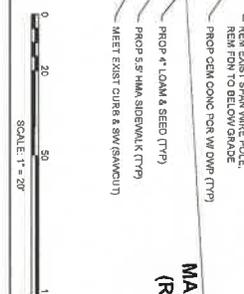
DATE	DESCRIPTION	REV. #

DESIGNED BY:	APP:	DATE:	
DRAWN BY:	APP:	SCALE:	
CHECKED BY:	APP:	NOT TO SCALE	

<p>W. Varisco & Associates, Inc. Transportation Engineers & Planners 1000 North Main Street Amherst, MA 01001</p>	PROJECT NO. 10209 SHEET NO. 7 DATE: SEPTEMBER 2025
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DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	R/W ELEV.	M/W ELEV. IN	IN V. ELEV. OUT	REMARKS
EX-DMH-5	EX DMH	10+17.4	53.75	148.46 (6)		
EX-DMH-7	EX DMH	10+42.3	54.43	149.13 (6)		
PROP-OB	PROP OB	10+17.7	53.85	148.50 (EX-DMH-5)	149.50 (EX-DMH-5)	4" RAINP. 18" EX-CR-56 EXISTING EXIST. 12" R/W
PROP-OB	PROP OB	10+27.3	54.48	149.14 (EX-DMH-7)	150.14 (EX-DMH-7)	4" RAINP. 18" EX-CR-56 EXISTING EXIST. 12" R/W

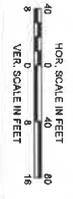
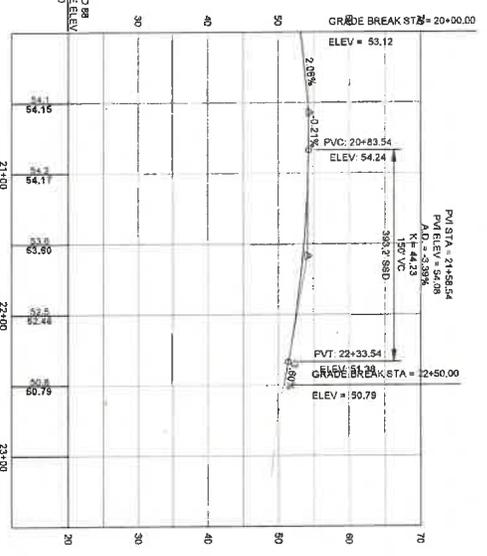
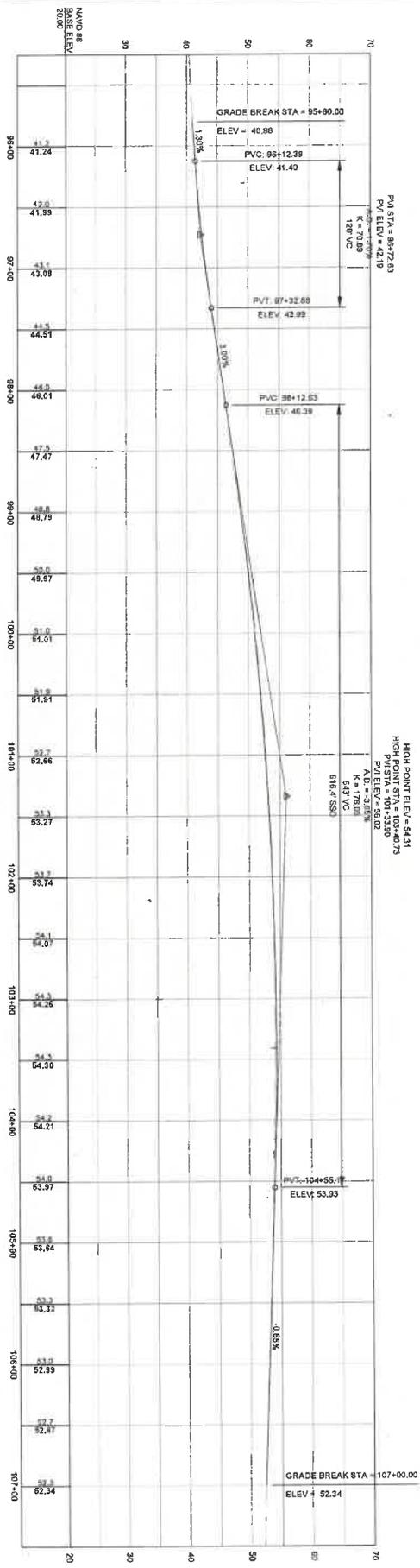


DATE	DESCRIPTION	REV. #

DESIGNED BY:	XYZ	DATE:	SEPTEMBER 2023
DRAWN BY:	XYZ	SCALE:	1" = 20'
CHECKED BY:	XYZ		

AMESBURY
MACY STREET (ROUTE 110)
 PROJECT NO. 10289
 SHEET NO. 9 OF 35
 PREPARED FOR: [Faded text]
 CONSTRUCTION PLANS

AMEEBERRY
 MACY STREET (ROUTE 110)
 DATE: 10/09
 DRAWN BY: JAM
 CHECKED BY: XYZ
 PROJECT NO: 11-50



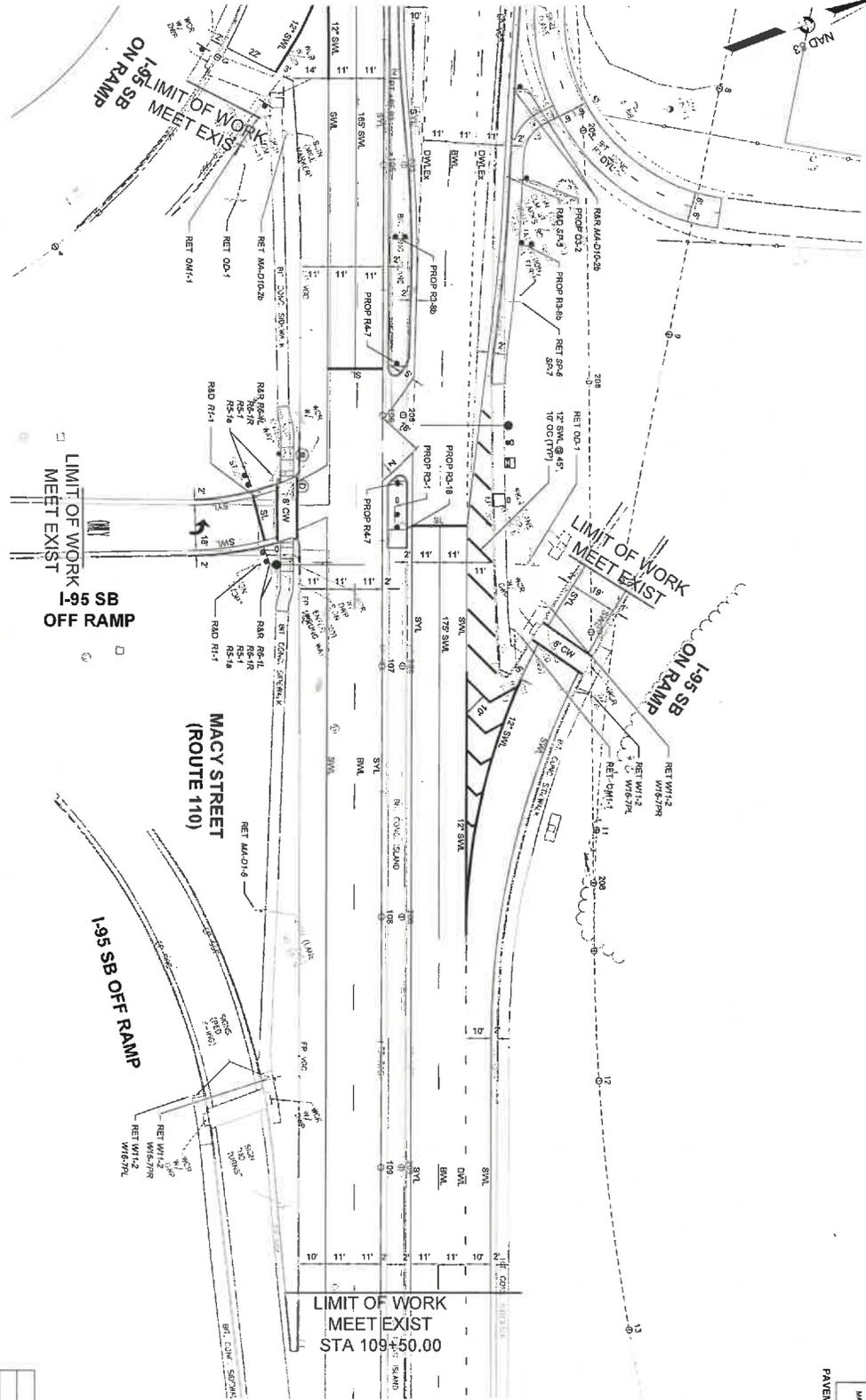
DATE	DESCRIPTION	REV #

DESIGNED BY: XYZ	DATE: SEPTEMBER 2008
DRAWN BY: XYZ	SCALE: 1/2" = 1'
CHECKED BY: XYZ	

M. VANTASSER & ASSOCIATES INC.
 2000 W. 10TH STREET, SUITE 100
 DENVER, CO 80202
 TEL: 303.733.1100
 FAX: 303.733.1101
 WWW.MVANDASSER.COM



CONTINUED ON
SHEET NO. 13



DATE	DESCRIPTION	REV #

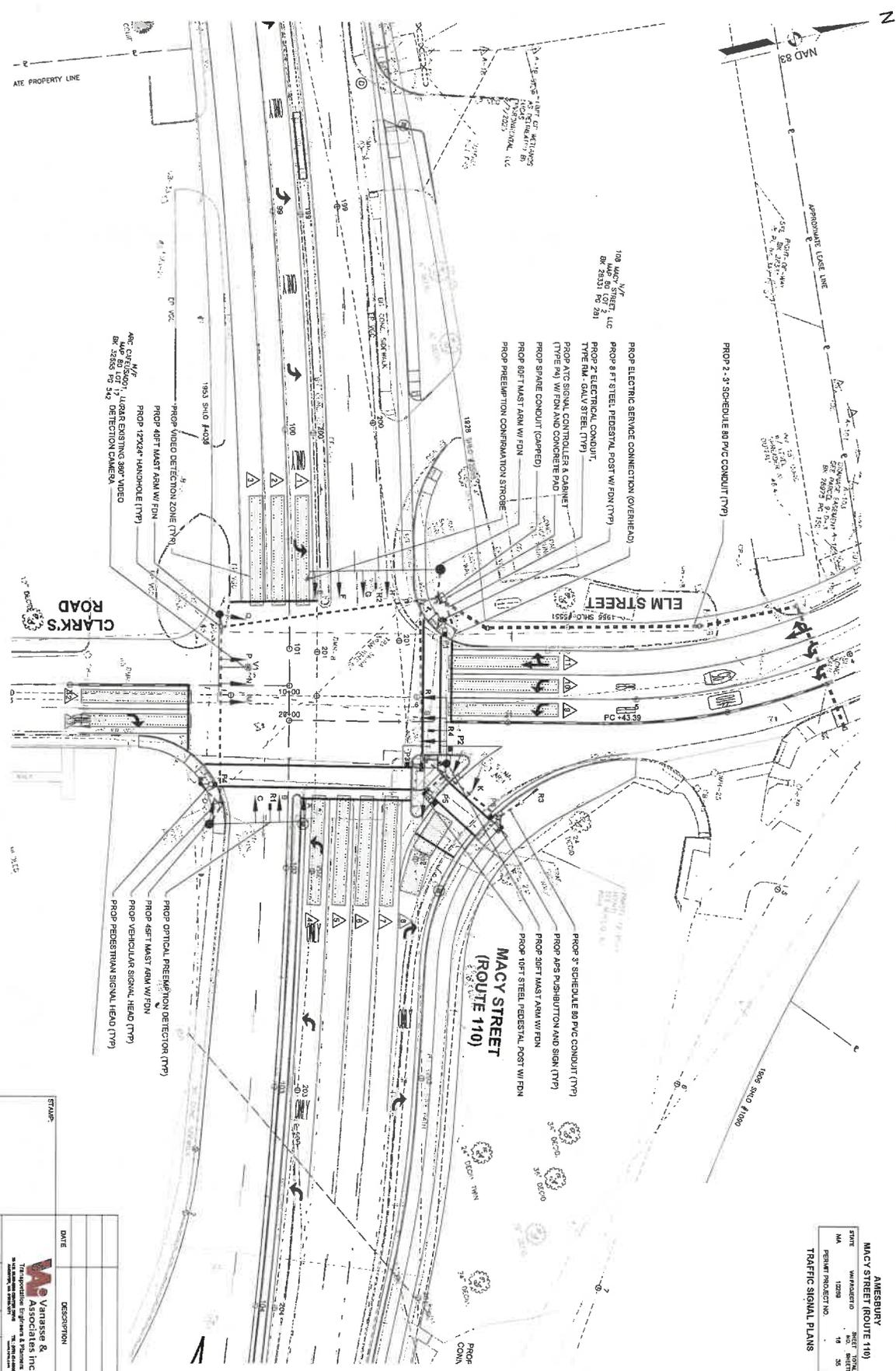
DESIGNED BY:	XXZ	DATE:	SEPTEMBER 2025
DRAWN BY:	XXZ	SCALE:	1" = 20'
CHECKED BY:	XXZ		

AMESBURY
MACY STREET (ROUTE 110)
DATE: 10/09
PROJECT NO.: 11
PAVEMENT MARKING & SIGNING PLANS

AMESBURY
MACY STREET (ROUTE 110)

SHEET NO. 15 OF 35
DATE: 09/20/2025
PROJECT NO. 10000
SIGN SUMMARY

EXISTING SIGN LEGEND	EXISTING SIGN	EXISTING SIGN	EXISTING SIGN
MA-01-5		R1-2	
MA-01-6		R3-2	
MA-01-1a		R3-3	
MA-01-1b		R3-4	
MA-03-1a		R3-5a	
MA-01-2a		R3-7a	
MA-01-2b		R3-7b	
MA-01-1		R3-7c	
MA-01-2		R3-7d	
MA-01-3		R4-7	
MA-01-4		R5-1	
MA-01-5		R5-2	
MA-01-6		R5-3	
MA-01-7		R5-4	
MA-01-8		R5-5	
MA-01-9		R5-6	
MA-01-10		R5-7	
MA-01-11		R5-8	
MA-01-12		R5-9	
MA-01-13		R5-10	
MA-01-14		R5-11	
MA-01-15		R5-12	
MA-01-16		R5-13	
MA-01-17		R5-14	
MA-01-18		R5-15	
MA-01-19		R5-16	
MA-01-20		R5-17	
MA-01-21		R5-18	
MA-01-22		R5-19	
MA-01-23		R5-20	
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MA-01-26		R5-23	
MA-01-27		R5-24	
MA-01-28		R5-25	
MA-01-29		R5-26	
MA-01-30		R5-27	
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MA-01-32		R5-29	
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MA-01-35		R5-32	
MA-01-36		R5-33	
MA-01-37		R5-34	
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MA-01-39		R5-36	
MA-01-40		R5-37	
MA-01-41		R5-38	
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MA-01-96		R5-93	
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MA-01-99		R5-96	
MA-01-100		R5-97	

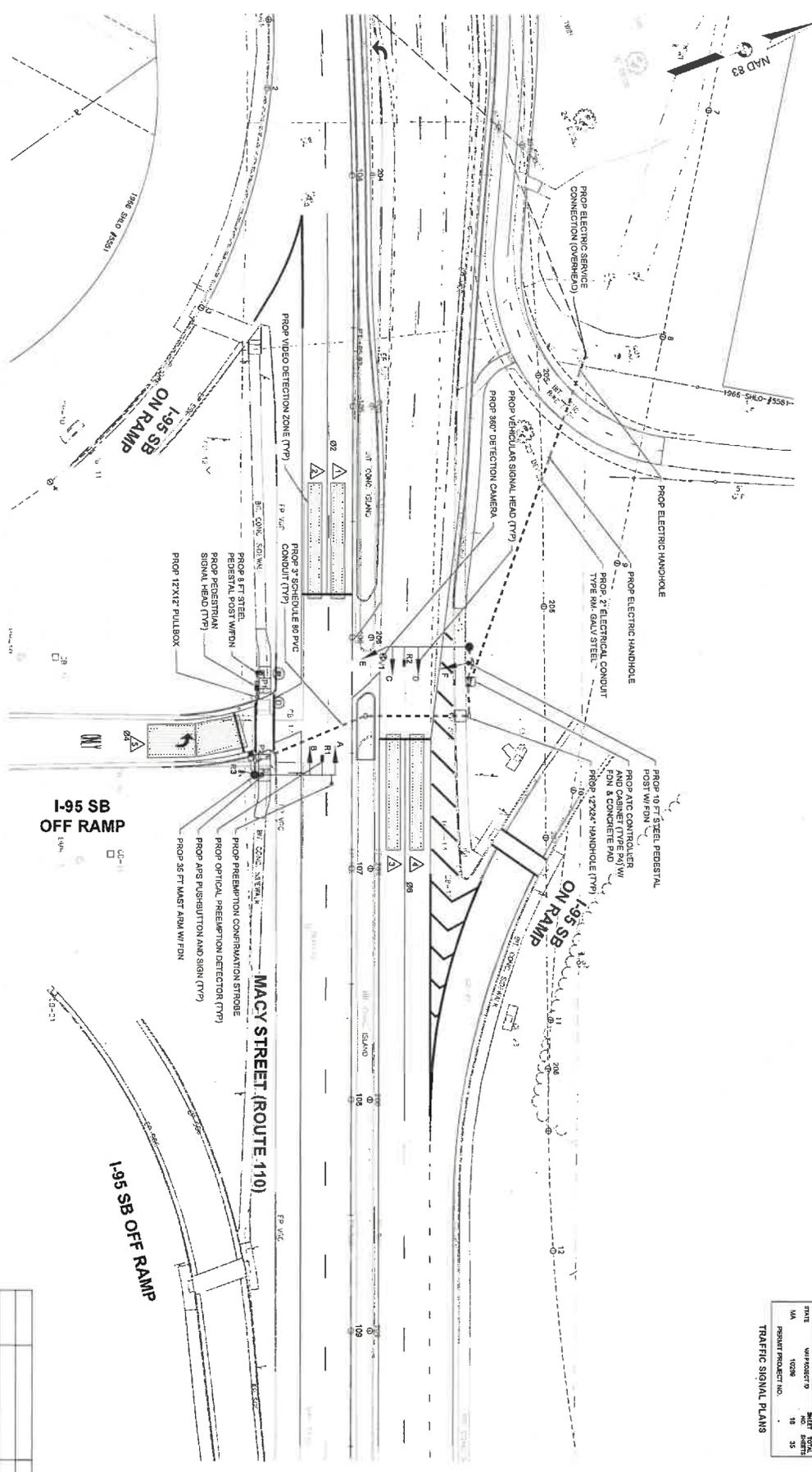


AMESBURY
 MACY STREET (ROUTE 110)
 TRAFFIC SIGNAL PLANS

DATE	DESCRIPTION	REV#

DESIGNED BY:	XX2	DATE:	SEPTEMBER 2022
DRAWN BY:	XX2	SCALE:	1" = 20'
CHECKED BY:	XX2		

MVA ASSOCIATES INC.
 100 WASHINGTON STREET, SUITE 200
 AMESBURY, MA 01921
 TEL: 978.253.1100
 FAX: 978.253.1101
 WWW.MVA-ASSOCIATES.COM



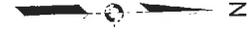
AMESBURY
MACY STREET (ROUTE 110)
TRAFFIC SIGNAL PLANS

STATE	MA	PROJECT NO.	1028
CITY	AMESBURY	SHEET NO.	11
DATE	09/25/05	TOTAL SHEETS	35

DATE	DESCRIPTION	REV #

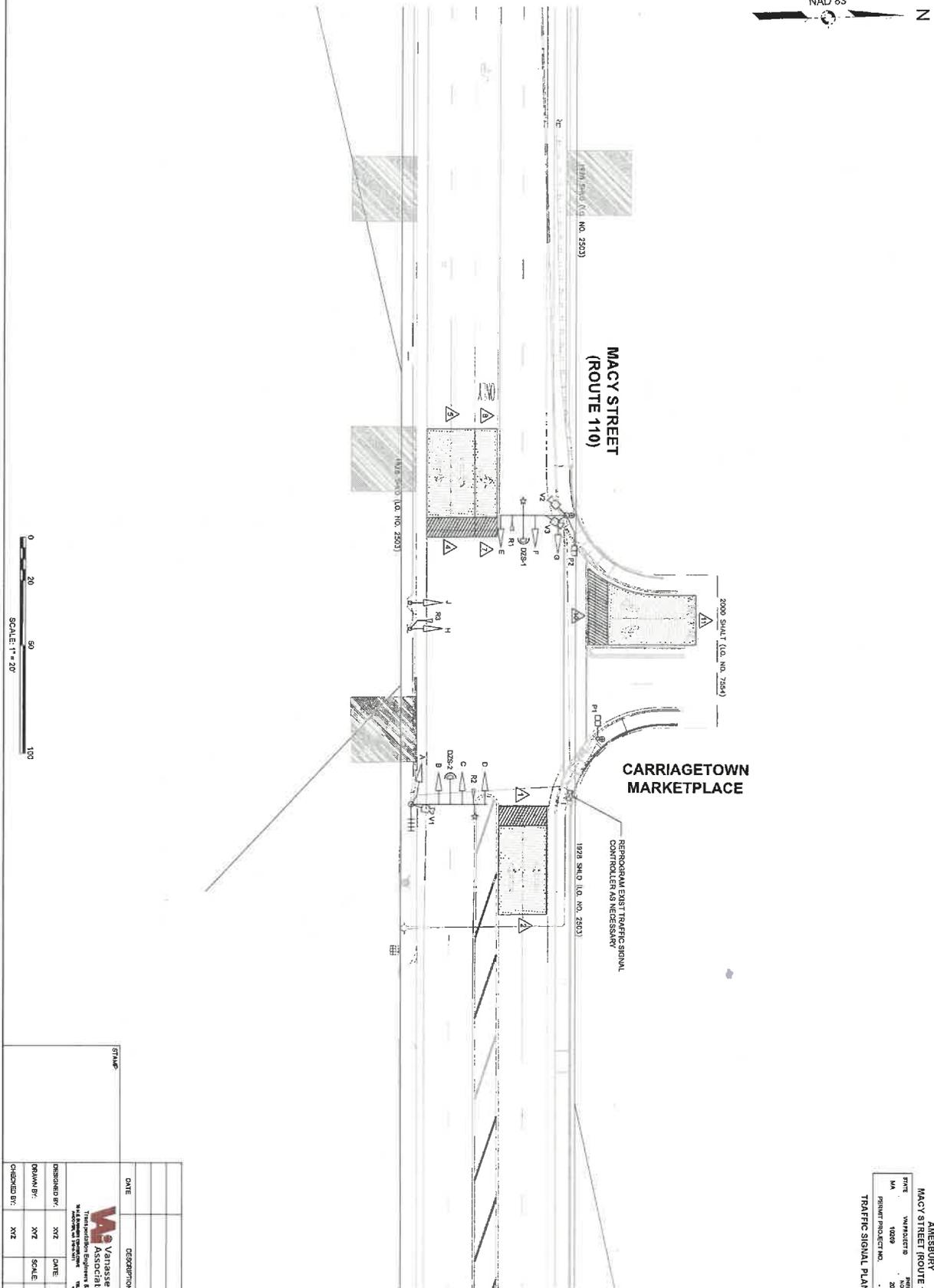
DESIGNED BY:	MYZ	DATE:	SEPTEMBER 2005
DRAWN BY:	MYZ	SCALE:	1" = 20'
CHECKED BY:	MYZ		

NAD 83



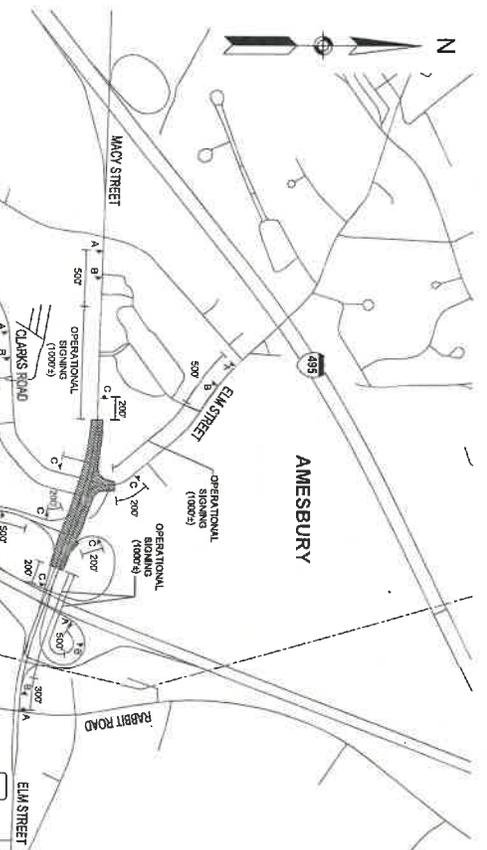
**MACY STREET
(ROUTE 110)**

**CARRIAGETOWN
MARKETPLACE**



AMESBURY			
MACY STREET (ROUTE 110)			
STATE	UNPROJECTED	SHEET TOTAL	20
MA	10009	PROJECT NO.	20 25
TRAFFIC SIGNAL PLANS			

DATE		DESCRIPTION	REV #
DESIGNED BY: XYZ		DATE: SEPTEMBER 2025	
DRAWN BY: XYZ		SCALE: 1" = 20'	
CHECKED BY: XYZ			



ADVANCE SIGNING SCHEMATIC
NOT TO SCALE



- LEGEND:**
- REFLECTORIZED PLASTIC DRUM
 - POLICE DETAIL
 - TYPE III BARRICADE
 - FLASHING ARROW PANEL
 - FLASHING ARROW PANEL
 - WORK ZONE
 - DIRECTION OF TRAFFIC
 - IMPACT ATTENUATOR
 - MEDIAN BARRIER
 - MEDIAN BARRIER WITH WARNING LIGHTS
 - WORK VEHICLE
 - TRUCK MOUNTED ATTENUATOR
 - TRAFFIC OR PEDESTRIAN SIGNAL
 - TRAFFIC OR PEDESTRIAN SIGNAL

TEMPORARY TRAFFIC CONTROL NOTES

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ALL REVISIONS, UNLESS SUPERCEDED BY THE PLANS.
2. ALL SIGN LEGENDS, BARRIERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. ALL CONSTRUCTION WARNING SIGNS SHALL BE FLUORESCENT ORANGE IN COLOR, UNLESS OTHERWISE NOTED.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
5. TEMPORARY CONSTRUCTION SIGNING, BARRIERS AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR CONVEYED WHEN THE WORK IS NOT REQUIRED FOR CONTROL OF TRAFFIC.
6. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELLED WAY, AND CHANNELIZED DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN MOBILE REPORT 300, RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FACILITIES, AND/OR THE FACTS 2009 MANUAL FOR ASSESSING STREET VANDALISM (MASH).
7. CONTRACTORS SHALL NOTIFY EACH OTHER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY TRAFFIC CONTROL SIGNING AND MOUNTING, SIGNING AND PAVEMENT RECONSTRUCTION.
8. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
9. THE ADVISORY SPEED, IF REQUIRED, SHALL BE DETERMINED BY THE RESIDENT ENGINEER AND APPROVED BY THE GOVERNING JURISDICTION PRIOR TO POSTING.
10. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
11. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL TO THE SPEED LIMIT IN MPH.
12. MINIMUM LANE WIDTH IS TO BE 11 FEET ON ROUTE 1 AND 10 FEET ON OTHER ROADWAYS. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRIVE OR MEDIAN BARRIER.
13. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
14. ADVANCE COMPLIANT PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES, INCLUDING PEDESTRIAN GUIDANCE SYSTEMS AT WORK ZONES.

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

Type of Taper	Taper Length (L)*
MERGING TAPER	AT LEAST L
SHIFTER TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.25L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN., 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN., 100 FT MAX PER LANE

FORMULAS FOR DETERMINING TAPER LENGTHS

Speed Limit (S)	Taper Length (L)
40 MPH OR LESS	L = $\frac{WS^2}{80}$
45 MPH OR MORE	L = WS

WHERE: L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

SUGGESTED WORK ZONE WARNING SIGN SPACING

Road Type	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
EXPRESSWAY/FREEWAY*	1,000	1,500	2,500

* SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY. DISTANCES ARE SHOWN IN FEET.
THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL. THE SETUP REQUIREMENTS FOR THE DIMENSION B DIMENSION IS THE DIMENSION FROM THE RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) SIGN.

STAMP

DATE: _____

DESCRIPTION: _____

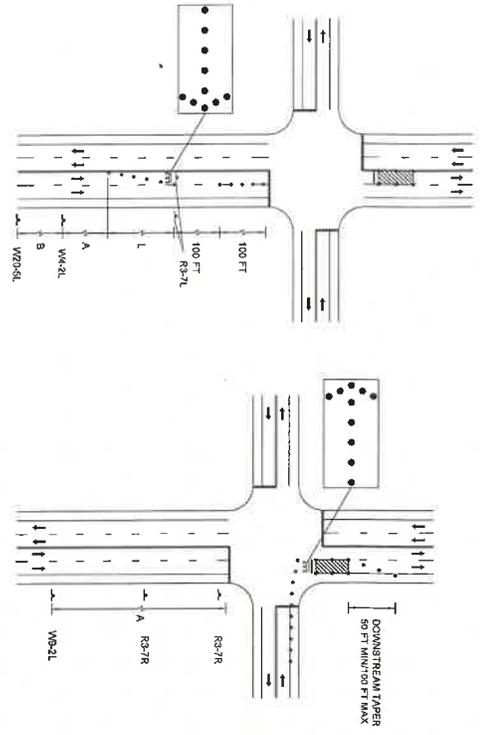
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DRAWN BY: _____ SCALE: _____

CHECKER: _____

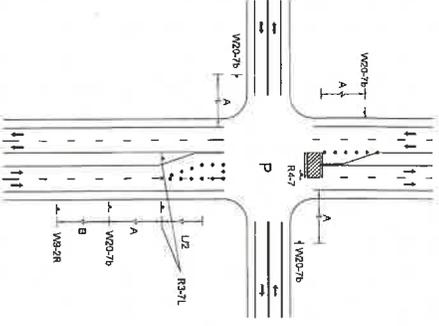
REV # _____

Stamp: **W** Associates & Engineers, Inc.
Professional Engineer & Planner
100 Main Street
Amesbury, MA 01920

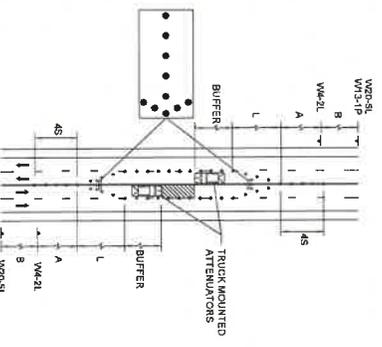


DOUBLE LANE APPROACH FAR SIDE CLOSURE INSIDE LANE
NOT TO SCALE

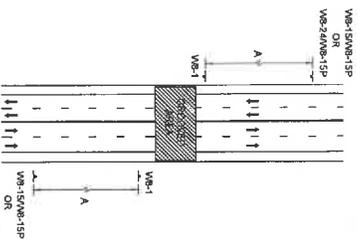
DOUBLE LANE APPROACH FAR SIDE CLOSURE RIGHT LANE
NOT TO SCALE



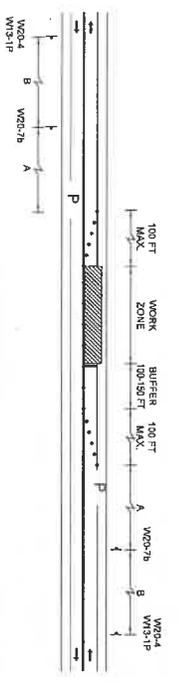
MULTIPLE LANE APPROACH MULTIPLE LANE CLOSURE
NOT TO SCALE



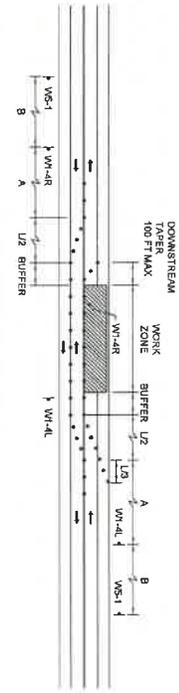
MULTIPLE LANE ROAD INTERIOR LANE CLOSURE
NOT TO SCALE



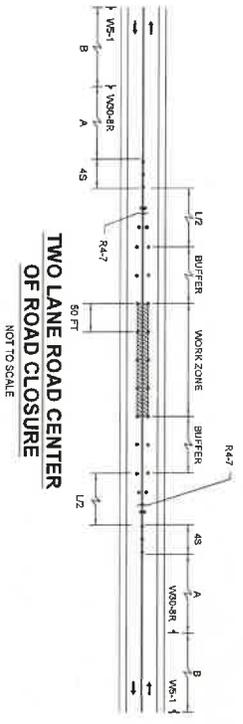
SCARIFIED PAVEMENT/ STEEL PLATE
NOT TO SCALE



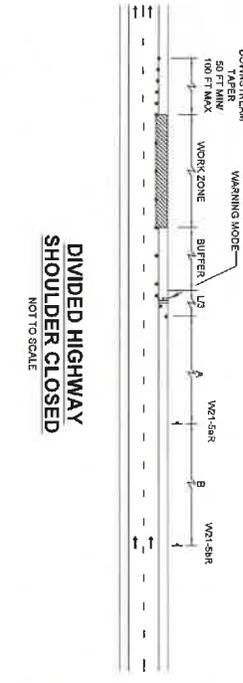
TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC WITH POLICE DETAIL
NOT TO SCALE



TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED
NOT TO SCALE



TWO LANE ROAD CENTER OF ROAD CLOSURE
NOT TO SCALE



DIVIDED HIGHWAY SHOULDER CLOSED
NOT TO SCALE

AMESBURY
MACY STREET (ROUTE 110)
REPAIR PROJECT NO. 11099

LINE	DESCRIPTION	AMOUNT	TOTAL
1	MA	20	20
2	SB	30	50
REPAIR PROJECT NO.			

TEMPORARY TRAFFIC CONTROL PLANS

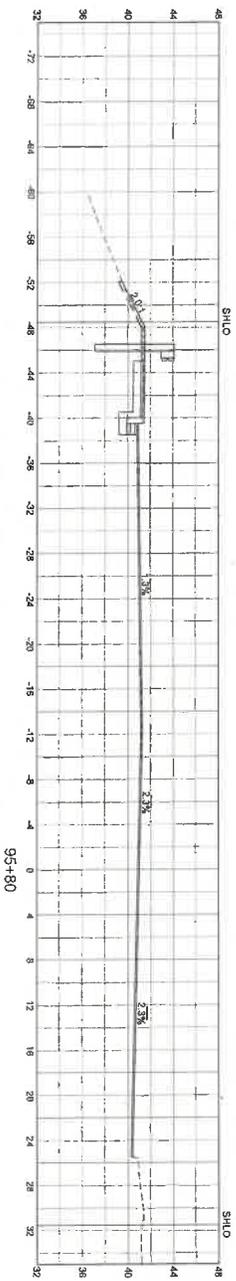
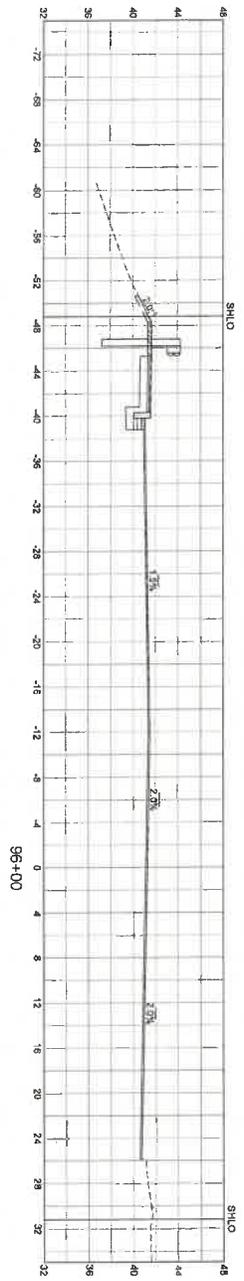
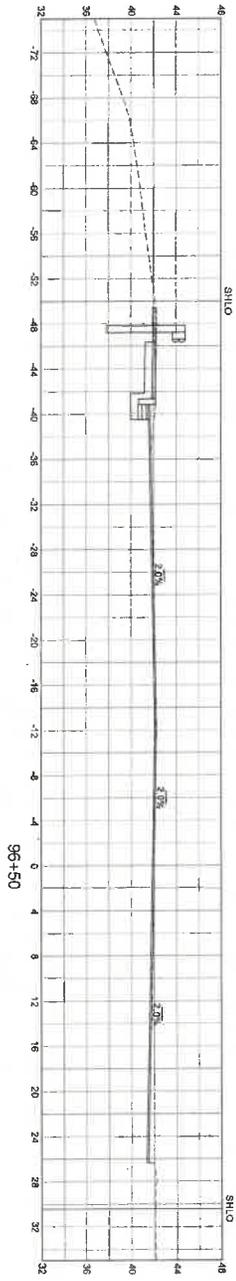
DATE	DESCRIPTION	REV #

DESIGNED BY: [Signature] DATE: [Blank] AMESBURY
DRAWN BY: [Signature] SCALE: [Blank] AMESBURY
CHECKED BY: [Signature] AMESBURY

M. V. VANTASSE & ASSOCIATES, INC.
30 S. LAURENCE STREET, SUITE 200
AMESBURY, MASSACHUSETTS 01821
TEL: 978.253.1100 FAX: 978.253.1101
WWW.VANTASSE.COM

AMESBURY
MACY STREET (ROUTE 110)
STATE: VERMONT
SHEET TOTAL: 23 OF 23
DATE: 09/20/2025
PROJECT NO.: 95-180

CROSS SECTIONS
MACY STREET (ROUTE 110)



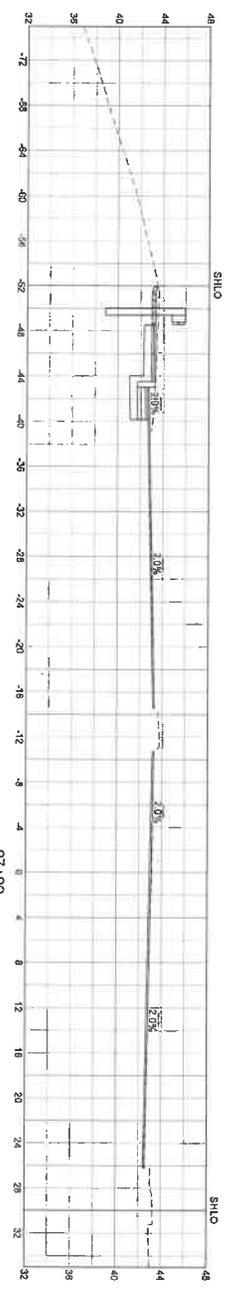
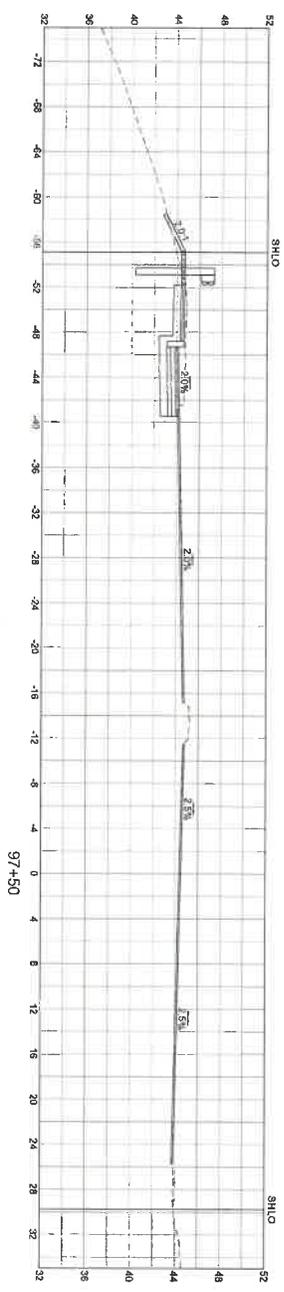
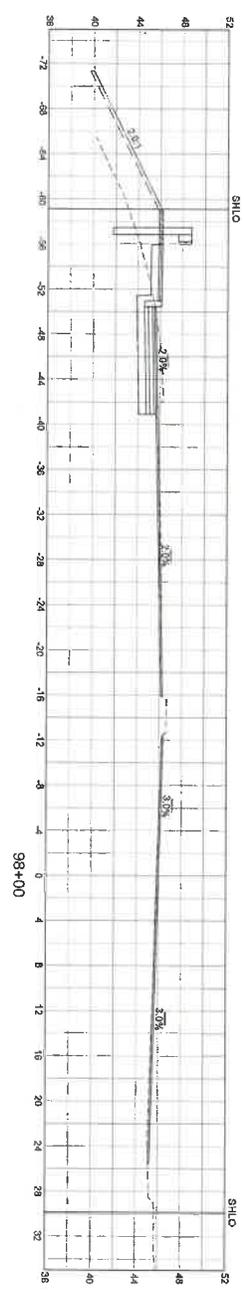
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0 5 10
VER. SCALE IN FEET
0 5 10

DATE	DESCRIPTION	REV #

DESIGNED BY	XTZ	DATE	SEPTEMBER 2025
DRAWN BY	XTZ	SCALE	1" = 5'
CHECKED BY	XTZ		

M. Vanasse & Associates Inc.
Professional Engineers
3165 ROUTE 110
AMESBURY, VERMONT 05701

AMESBURY
MACY STREET (ROUTE 110)
PROJECT NO. 1080
SHEET TOTAL
NO. SHEETS
28
FORM PROJECT NO. 28



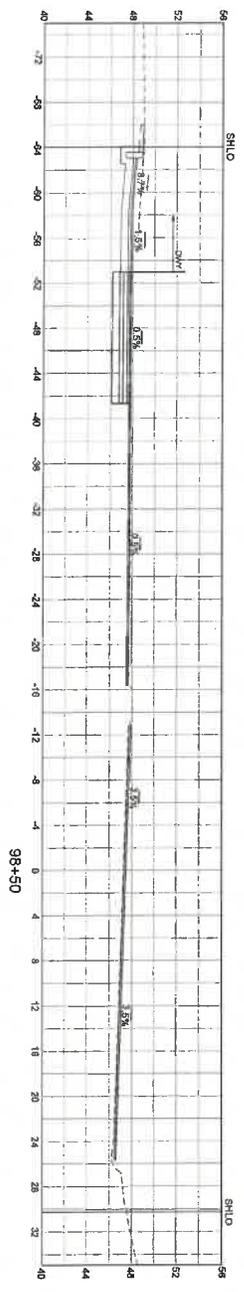
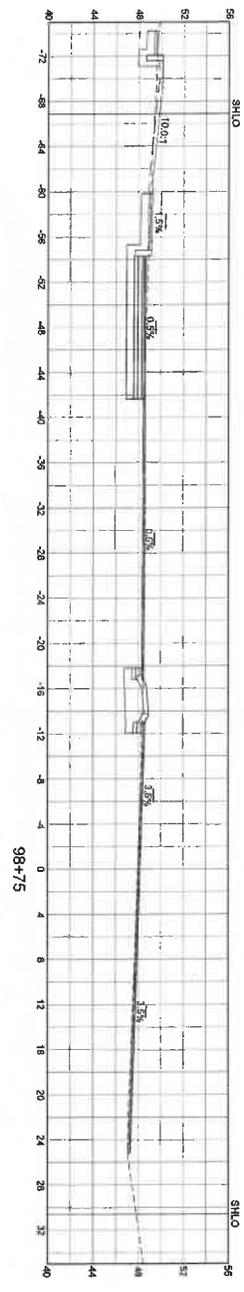
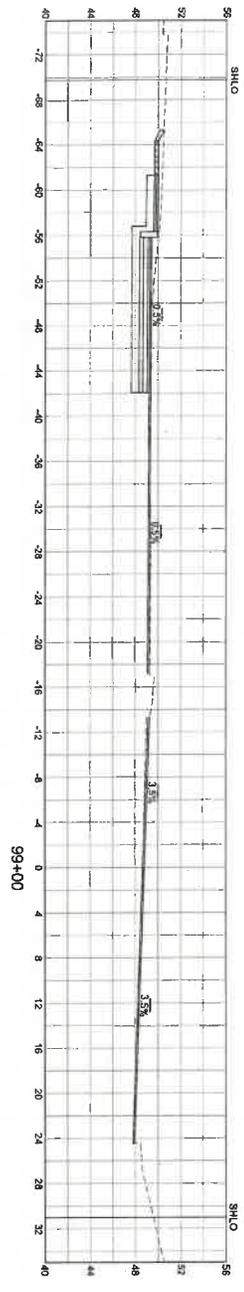
HOR. SCALE IN FEET
1" = 10'
VER. SCALE IN FEET
1" = 5'

DATE	DESCRIPTION	REV #

DESIGNED BY:	KXZ	DATE:	SEPTEMBER 2008
DRAWN BY:	KXZ	SCALE:	1" = 5'
CHECKED BY:	KXZ		

M.A. VENTURES & ASSOCIATES, INC.
100 WASHINGTON STREET, SUITE 200
AMESBURY, MASSACHUSETTS 01821
TEL: 978.253.1100
WWW.MAVENTURES.COM

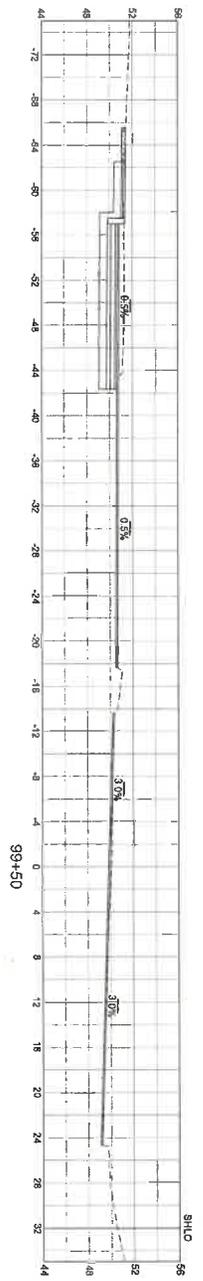
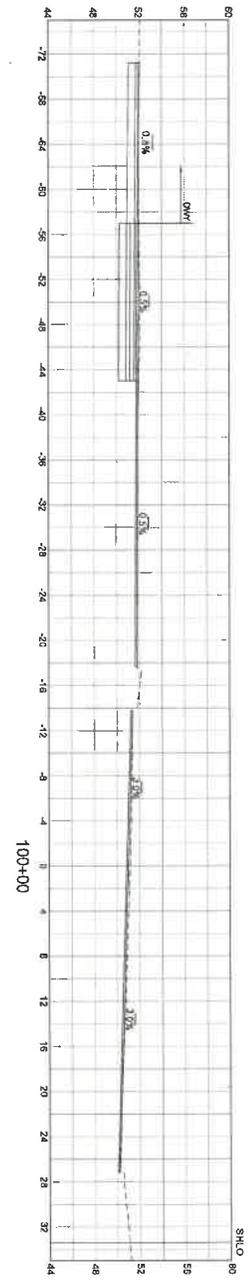
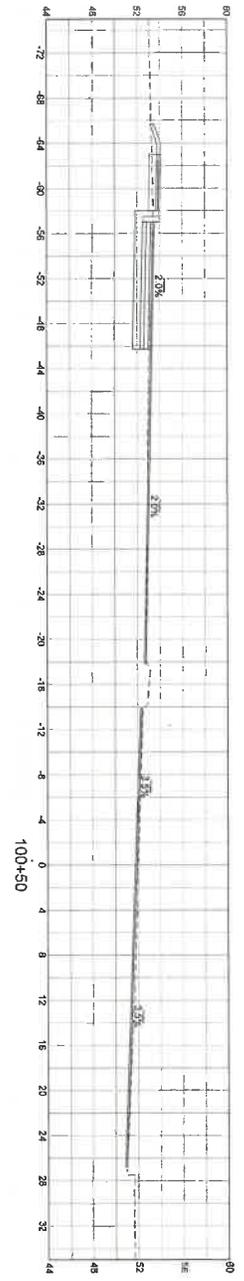
AMESBURY
 MACY STREET (ROUTE 110)
 FINITE UNPAVED
 MA 10288
 PERMIT PRODUCTION NO. 27 35
CROSS SECTIONS
 MACY STREET (ROUTE 110)



HOB SCALE IN FEET
 0 5 10
 VER. SCALE IN FEET
 0 5 10

DATE		DESIGNER	DATE
DRAWN BY		XYZ	SEPTEMBER 2025
CHECKED BY		XYZ	T = S
DATE		DESIGNED BY	DATE
DRAWN BY		XYZ	SEPTEMBER 2025
CHECKED BY		XYZ	T = S

AMESBURY
MACY STREET (ROUTE 110)
DATE: 10/29/2025
PROJECT NO.: 28-55
CROSS SECTIONS
MACY STREET (ROUTE 110)

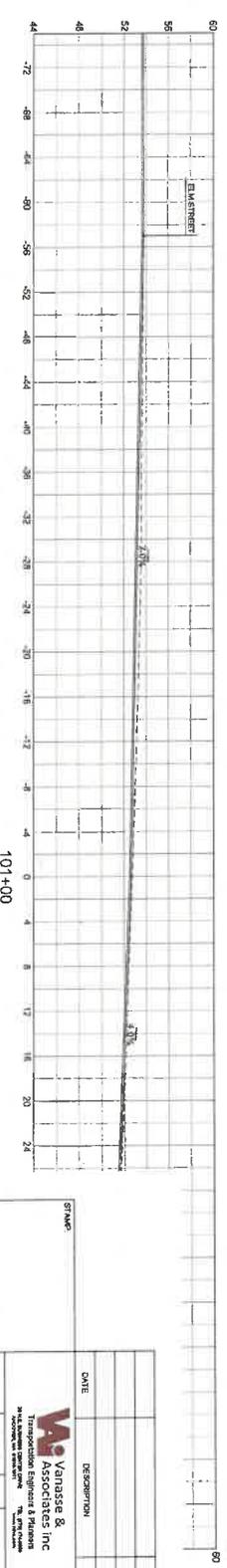
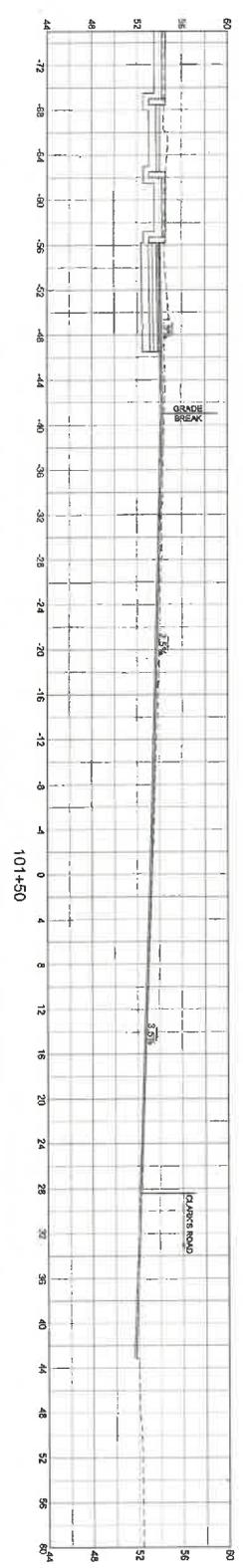
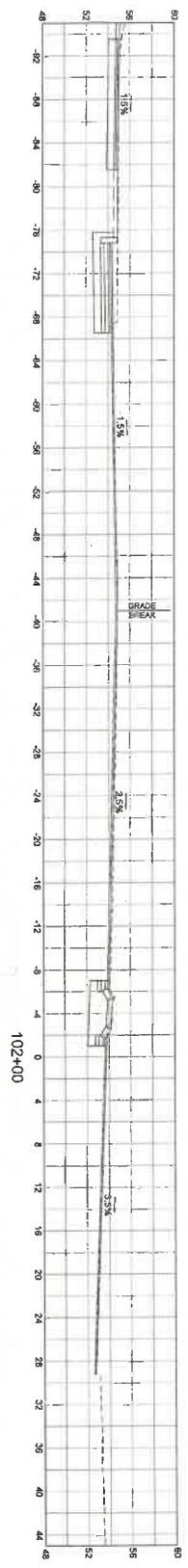


HOR. SCALE IN FEET 10
VER. SCALE IN FEET 5

DATE	DESCRIPTION	REV #

DESIGNED BY:	XYZ	DATE:	SEPTEMBER 2025
DRAWN BY:	XYZ	SCALE:	1" = 5'
CHECKED BY:	XYZ		

ANNESBURY
 MACY STREET (ROUTE 110)
 STATE MA PROJECT NO. 10209
 PERMIT PROJECT NO. 20 35
 SHEET TOTAL 25
 CROSS SECTIONS
 MACY STREET (ROUTE 110)



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 VER. SCALE IN FEET
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DATE	DESCRIPTION	REV #

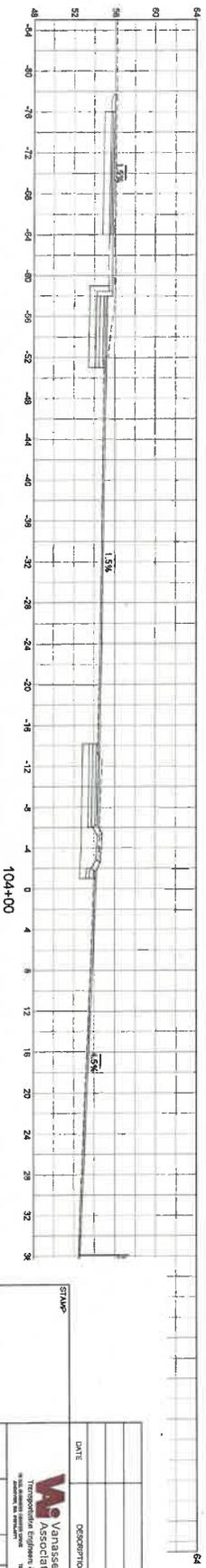
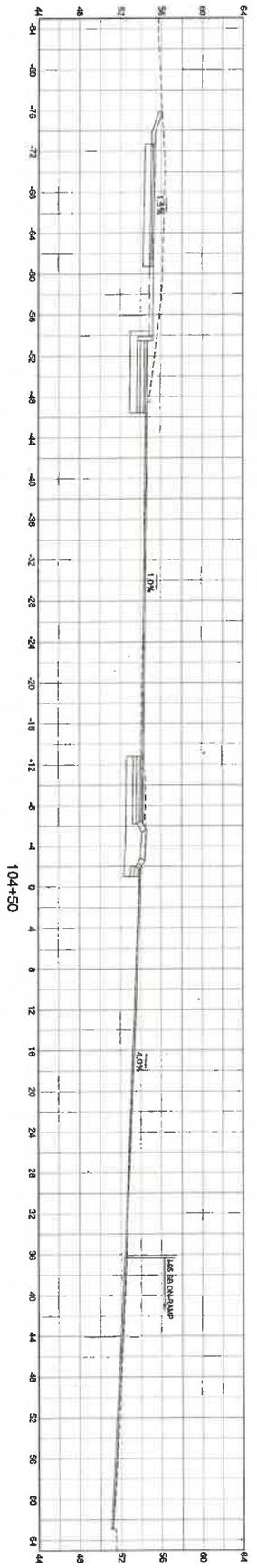
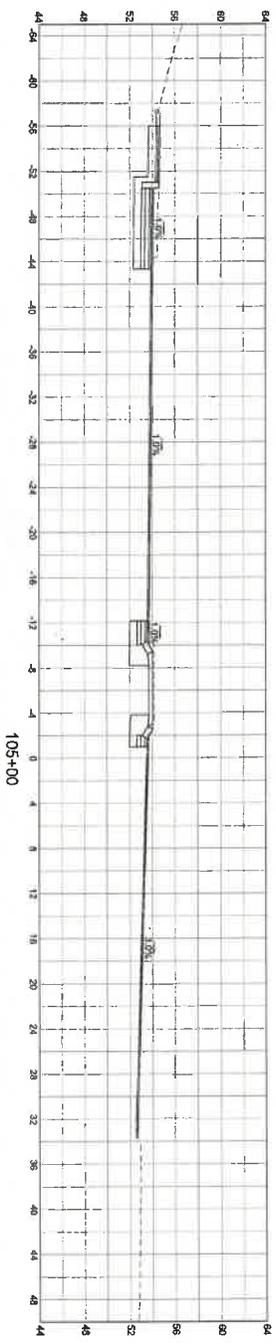
DESIGNED BY:	XTZ	DATE:	SEPTEMBER 2025
DRAWN BY:	XTZ	SCALE:	1"=5'
CHECKED BY:	XTZ		

101+00

101+50

102+00

AMESBURY
 MACY STREET (ROUTE 110)
 STATE MA PROJECT NO. 10299
 SHEET TOTAL 31
 PERMIT PROJECT NO. 10299
 SHEET NO. 31



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 VER. SCALE IN FEET
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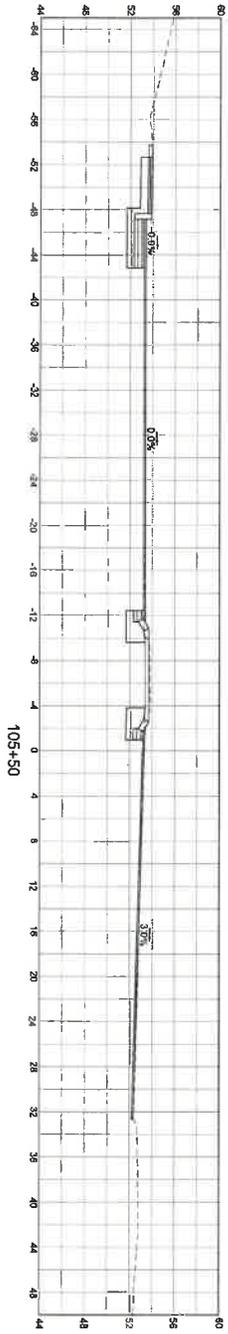
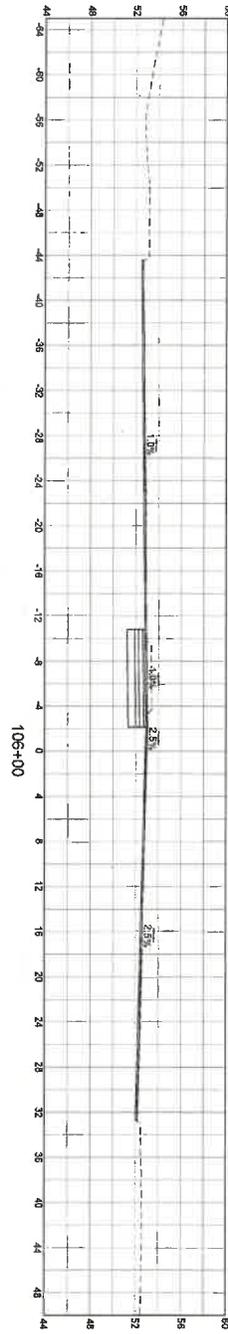
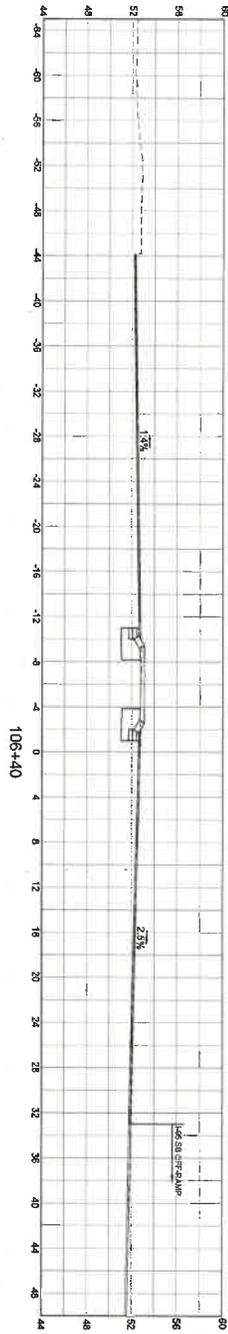
DATE	DESCRIPTION	REV #

DESIGNED BY:	XYZ	DATE:		REVISIONS:	
DRAWN BY:	XYZ	SCALE:	1" = 5'		
CHECKED BY:	XYZ				

M. Vanasse & Associates Inc.
 Professional Engineers & Planners
 1000 Main Street, Suite 200
 Amesbury, MA 01810

AMESBURY
 MACY STREET (ROUTE 110)
 SHEET TOTAL
 10000
 PROJECT NO.
 23 30

CROSS SECTIONS
 MACY STREET (ROUTE 110)



HOB SCALE IN FEET
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 VER. SCALE IN FEET
 0 5 10

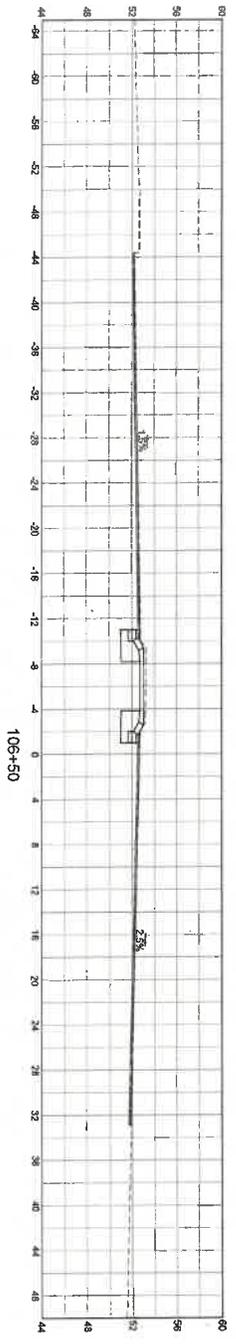
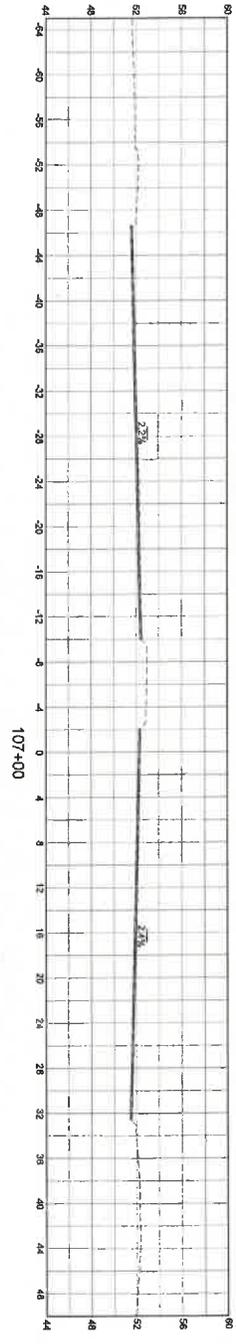
DATE	DESCRIPTION	REV#

DESIGNED BY: XYZ DATE: SEPTEMBER 2023
 DRAWN BY: XYZ SCALE: 1" = 5'
 CHECKED BY: XYZ



Vanasse & Associates, Inc.
 Transportation Engineers & Planners
 10000
 PROJECT NO.

AMESBURY
 MACY STREET (ROUTE 110)
 STATE MA PROJECT NO. 1009
 DRAWING NO. 33
 SHEET NO. 25
 PREPARED PROJECT NO. 1009
 CROSS SECTIONS
 MACY STREET (ROUTE 110)



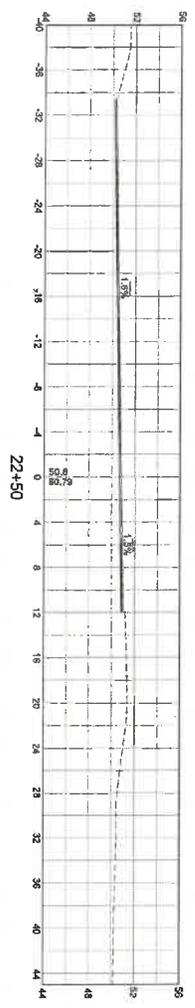
HOR. SCALE IN FEET
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 0 5 10
 VER. SCALE IN FEET
 1" = 5'
 0 5 10

DATE	DESCRIPTION	REV.#

DESIGNED BY	XTZ	DATE	SEPTEMBER 2023
DRAWN BY	XTZ	SCALE	1" = 5'
CHECKED BY	XTZ		

W. Vanasse & Associates Inc.
 Transportation Engineers & Planners
 1000 North Main Street
 Amesbury, MA 01810

AMESBURY
MACY STREET (ROUTE 110)
 STATE MA PROJECT # 10000
 PERMIT PROJECT NO. 55 55
CROSS SECTIONS
 ELM STREET



HOR. SCALE IN FEET 1" = 10'
 VER. SCALE IN FEET 1" = 5'

DATE	DESCRIPTION	REV #

DESIGNED BY:	XYZ	DATE:	SEPTEMBER 2020
DRAWN BY:	XYZ	SCALE:	1" = 5'
CHECKED BY:	XYZ		

M. VANASSE & ASSOCIATES INC.
 Transportation Engineers & Planners
 200 WEST STREET, SUITE 200
 AMESBURY, MA 01810

