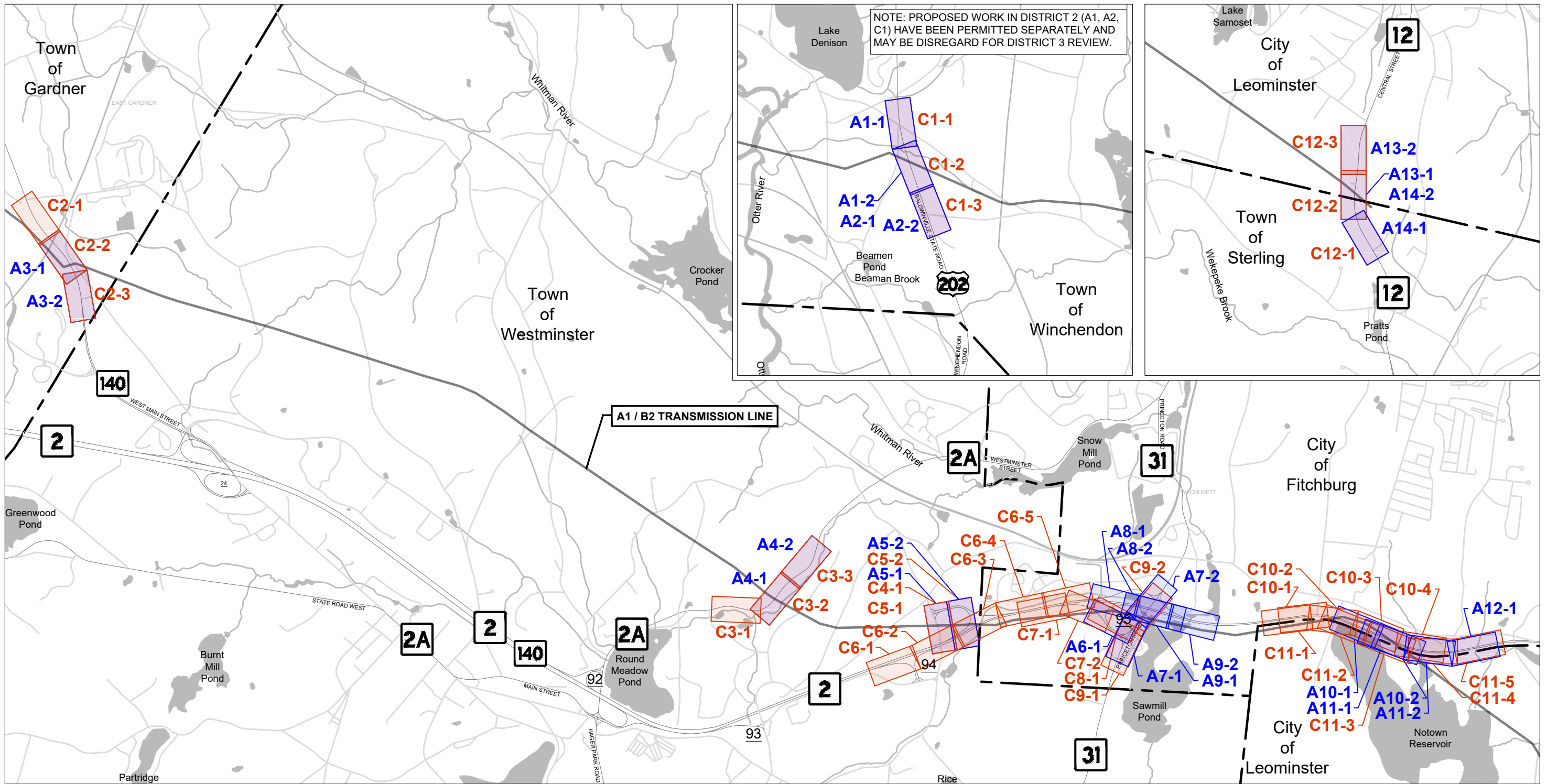


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A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
PROJECT LOCATION AND KEY PLAN

PREPARED FOR:
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 170 Data Drive
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 02451

PREPARED BY:
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 1 Mercantile Street
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 01608

JOB NO.: 89620.66 SCALE: 1" = 2,500'
 ISSUE DATE: 01/16/2024 PLAN NO.: CV-1
 REV. DATE: 05/15/2025 SHEET NO.: 1 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\8962066 - MASSDOT - TMP Detail-Sign Summary Master S3.dwg
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LEGEND

<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>SYMBOL</u>	<u>DESCRIPTION</u>
	APPROX. LIMIT OF STATE HIGHWAY LAYOUT		EXISTING TRAFFIC SIGNAL SYSTEM
	RECORD STATE HIGHWAY BASELINE		EXISTING TRAFFIC SIGN / DESIGNATION
	EXISTING GUARD RAIL		TEMPORARY CONSTRUCTION SIGN / DESIGNATION
	EXISTING WOVEN WIRE/CHAIN LINK FENCE		REFLECTORIZED PLASTIC DRUM OR 36" TRAFFIC CONE
	EXISTING NOISE/JERSEY BARRIER		CONSTRUCTION SIGN MOUNTED ON TYPE 3 BARRICADE
	APPROX. UTILITY RIGHT-OF-WAY / EASEMENT		TEMPORARY PORTABLE CONCRETE BARRIER SYSTEM
	EXISTING ELECTRIC TRANSMISSION LINE / STRUCTURE		DIRECTION OF TRAFFIC
	EXISTING ELECTRIC OH DISTRIBUTION LINE / STRUCTURE		PROPOSED WORK ZONE
	EXISTING ELECTRIC UG DISTRIBUTION LINE / STRUCTURE		PROPOSED TEMPORARY ACCESS LOCATION
			PROPOSED POLICE DETAIL LOCATION
			FLASHING ARROW BOARD
			TRUCK-MOUNTED ATTENUATOR
			UTILITY BUCKET TRUCK
			UTILITY CABLE PULLER
			UTILITY REEL LUGGER

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

LEGEND

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JOB NO.: 89620.66	SCALE: NO SCALE
ISSUE DATE: 01/16/2024	PLAN NO.: L-1
REV. DATE: 05/15/2025	SHEET NO.: 2 of 81

TRAFFIC MANAGEMENT NOTES

GENERAL

1. ALL CONSTRUCTION WORK AND ASSOCIATED ACTIVITIES RELATED TO THIS PROJECT OCCURRING WITHIN OR OTHERWISE AFFECTING A MASSDOT JURISDICTIONAL HIGHWAY FACILITY ARE SUBJECT TO THE TERMS AND CONDITIONS OF A MASSDOT STATE HIGHWAY ACCESS/CROSSING PERMIT ISSUED SPECIFICALLY FOR THIS PROJECT, A COPY OF WHICH SHALL BE KEPT ON THE WORK SITE AT ALL TIMES. THESE PLANS ARE AN ATTACHMENT TO THAT PERMIT.
2. ALL CONSTRUCTION SIGNING, DRUMS, BARRICADES AND OTHER DEVICES SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE RELEVANT PROVISIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH MASSACHUSETTS AMENDMENTS; THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350; THE FWHA MANUAL FOR ASSESSING SAFETY HARDWARE (MASH); THE MASSDOT STANDARD SPECIFICATIONS; THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS, AND THEIR LATEST REVISIONS.
3. ALL WARNING SIGNS SHALL BE BLACK TEXT ON AN ORANGE BACKGROUND. ALL REGULATORY SIGNS SHALL BE BLACK TEXT ON A WHITE BACKGROUND.
4. ALL DISTURBED AREAS (INCLUDING MEDIAN ISLANDS, SIDEWALKS, CURBING, SIGNAL DETECTION LOOPS, PAVEMENT AND PAVEMENT MARKINGS) SHALL BE REPLACED IN-KIND TO MATCH EXISTING CONDITIONS. THIS INCLUDES TEMPORARY ACCESS LOCATIONS, WHICH SHALL BE LOAMED AND SEEDED, AS REQUIRED, IN ACCORDANCE WITH MASSDOT STANDARDS AND SPECIFICATIONS (4-INCH OF LOAM MINIMUM) TO MATCH EXISTING CONDITIONS.
5. WHERE ACCESS REQUIRES TRAVEL OVER EXISTING CURBING, THE CURBING SHALL BE REMOVED PRIOR TO TEMPORARY ACCESS AND REPLACED UPON COMPLETION OF WORK.
6. ALL GUARDRAIL IMPACTED BY THE PROPOSED WORK MUST BE REPLACED AND CONFORM TO CURRENT MASH STANDARDS AND MASSDOT ENGINEERING DIRECTIVE E-20-004. ALL GUARDRAIL MUST BE INSTALLED BY A MASSDOT APPROVED GUARDRAIL CONTRACTOR.
7. ANY STATE MAINTAINED DRAINAGE ASSETS DAMAGED AS A RESULT OF THE PROPOSED WORK SHALL BE REPLACED IN-KIND AND IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND DETAILS AT THE APPLICANT'S EXPENSE.
8. NOTE THAT PULLING OVER LIVE TRAFFIC IS PROHIBITED. WIRE PULLS ACROSS STATE HIGHWAYS SHALL BE PERFORMED WITH APPROPRIATE TRAFFIC CONTROL (ROLLING ROAD BLOCK) IN PLACE. SEE ROLLING ROAD BLOCK NOTES ON SHEETS 16 - 17

CONSTRUCTION SIGNING

1. FINAL LOCATION OF SIGNS, DRUMS, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. NON-ESSENTIAL TEMPORARY CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED FROM THE HIGHWAY WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
3. ALL EXISTING REGULATORY AND WARNING SIGNS THAT ARE IN CONFLICT WITH THE INTENT OF THIS TRAFFIC MANAGEMENT PLAN OR ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE COVERED OR REMOVED, ESPECIALLY W5-1, W20-4, W20-5, W20-8 AND W21-5a PANELS. SUCH SIGNS SHALL REMAIN COVERED OR REMOVED WHILE THIS TRAFFIC MANAGEMENT PLAN IS IN EFFECT.
4. THE LISTED/NOTED DISTANCES BETWEEN TRAFFIC CONTROL SIGNS/DEVICES ARE PROVIDED AS A GUIDE AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER.

MISCELLANEOUS

1. THE EXISTING DETAIL SHOWN ON THESE PLANS IS LIMITED IN CONTENT AND APPROXIMATE IN LOCATION AND IS BASED UPON MASS GIS AERIAL ORTHO IMAGERY AND RECORD STATE HIGHWAY LAYOUT AND CONSTRUCTION PLANS. ACTUAL FIELD CONDITIONS MAY VARY.
2. THE WORK SITE SHALL BE ADEQUATELY PROTECTED (DURING BOTH WORKING AND NON-WORKING HOURS) TO ENSURE SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC.
3. PEDESTRIAN ACTIVITY SHALL BE CONTROLLED BY THE POLICE DETAIL.
4. INGRESS AND EGRESS TO ALL STREETS AND DRIVES SHALL BE MAINTAINED AT ALL TIMES, EXCEPT AS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

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A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

GENERAL NOTES

PREPARED FOR:

nationalgrid

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Waltham, Massachusetts
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PREPARED BY:














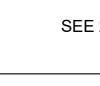





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JOB NO.: 89620.66	SCALE: NO SCALE
ISSUE DATE: 01/16/2024	PLAN NO.: GN-1
REV. DATE: 05/15/2025	SHEET NO.: 3 of 81

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA (S.F.)	AREA (S.F.)
	WIDTH (in)	HEIGHT (in)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER		
MA-R2-10a	48 -- 60	36 -- 48		SEE MASSDOT STANDARDS				SEE MASSDOT STANDARDS			12.00 -- 20.00	--
MA-R2-10e	36 -- 48	48 -- 60		SEE MASSDOT STANDARDS				SEE MASSDOT STANDARDS			12.00 -- 20.00	--
R1-2	36 X 36 X 36			SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			16.00	--
W1-4L/R	36 -- 48	36 -- 48	 	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W3-2	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W4-1L/R	36 -- 48	36 -- 48	 	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W4-2L/R	36 -- 48	36 -- 48	 	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W5-1	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W5-4	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W13-4P	36	36		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00	--
W20-1	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W20-3	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W20-4	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
W20-7	36 -- 48	36 -- 48		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA (S.F.)	AREA (S.F.)
	WIDTH (in)	HEIGHT (in)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER		
W20-5L/R	36 -- 48	36 -- 48	 	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
MA-W20-7b	36 -- 48	36 -- 48		SEE MASSDOT STANDARDS				SEE MASSDOT STANDARDS			9.00 -- 16.00	--
W21-5a	36 -- 48	36 -- 48	 	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			9.00 -- 16.00	--
MA-W30-8R	36 -- 48	36 -- 48		SEE MASSDOT STANDARDS				SEE MASSDOT STANDARDS			9.00 -- 16.00	--
E5-1	72	60		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			30.00	--
E5-2	48	36		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			12.00	--
E5-2a	48	36		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			12.00	--
M1-5(31)	24	24		SEE MASSDOT STANDARDS				SEE MASSDOT STANDARDS			4.00	--
M1-5(31)	24	24		SEE MASSDOT STANDARDS				SEE MASSDOT STANDARDS			4.00	--
M3-1, M3-2, M3-3	24	12	  	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			2.00	--
M4-8a	24	18		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			3.00	--
M4-9L/R	30	24	 	SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			5.00	--
M4-9SR	30	24		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			5.00	--
M4-9V	30	24		SEE 2009 M.U.T.C.D.				SEE 2009 M.U.T.C.D.			5.00	--

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A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS TRAFFIC SIGN SUMMARY

PREPARED FOR:

nationalgrid

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02451

PREPARED BY:

BSC GROUP

BUILD | SUPPORT | CONNECT
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JOB NO.: 89620.66 SCALE: NO SCALE
ISSUE DATE: 01/16/2024 PLAN NO.: SS-1
REV. DATE: 05/15/2025 SHEET NO.: 4 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\8962066 - MASSDOT - TMP Detail-Sign Summary Master S3.dwg
 Plotted on: Thursday, May 15, 2025 - 9:07am by KSP0FFORD

NOTES:

- 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 THESE PLANS.
- ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." AND/OR MASH "MANUAL FOR ASSESSING SAFETY HARDWARE."
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
- THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A SEQUENTIAL FLASHING LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZING DEVICE OR BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- ▨ WORK ZONE
- 🚚 WORK VEHICLE
- P/F POLICE/FLAGGER DETAIL
- ➔ DIRECTION OF TRAFFIC
- 🚚 TRUCK MOUNTED ATTENUATOR
- ▨ TYPE III BARRICADE
- 🛑 IMPACT ATTENUATOR
- ➔ TRAFFIC OR PEDESTRIAN SIGNAL
- 📄 CHANGEABLE MESSAGE SIGN
- ▨ MEDIAN BARRIER
- SIGN
- ➔ ARROW BOARD
- ▨ MEDIAN BARRIER WITH WARNING LIGHTS

THE IDEAL CAPACITY OF A MAJOR HIGHWAY IS GENERALLY CONSIDERED TO BE 1900 PASSENGER CARS PER HOUR PER LANE (PCPHPL). IN WORK ZONES ON A MULTI-LANE DIVIDED HIGHWAY, THE FOLLOWING VOLUME GUIDELINES HAVE BEEN SUGGESTED:

MEASURED AVERAGE WORK ZONE CAPACITIES

Number of Lanes		Number of Studies	Average Capacity	
NORMAL (existing)	OPEN (to traffic)		VPH	VPHPL
3	1	7	1,170	1,170
2	1	8	1,340	1,340
5	2	8	2,740	1,370
4	2	4	2,960	1,480
3	2	9	2,980	1,490
4	3	4	4,560	1,520

Source: Dudek, C., *Notes on Work Zone Capacity and Level of Service*. Texas Transportation Institute, Texas A&M University, College Station, Texas (1984)

BY OBTAINING HOURLY TRAFFIC COUNTS FOR A PARTICULAR ROADWAY (WITH A MINIMUM OF A 48-HOUR AUTOMATIC TRAFFIC RECORDER (ATR) COUNT), THIS WILL HELP TO DETERMINE AT WHAT TIMES OF THE DAY OR NIGHT A CERTAIN NUMBER OF LANES MAY BE CLOSED.



Notes for Traffic Management

FIGURE Gen-1
GENERAL GUIDELINES

SUGGESTED WORK ZONE WARNING SIGN SPACING

Road Type	Distance Between Signs**		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF 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 SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTC SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

Source: Table 6C-2 MUTCD LATEST EDITION



Notes for Traffic Management

FIGURE Gen-2
NOTES ON WORK ZONE DISTANCES

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

MASSDOT STANDARD FIGURES

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JOB NO.: 89620.66 SCALE: NO SCALE
 ISSUE DATE: 01/16/2024 PLAN NO.: D-1
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CONVENTIONAL ROADWAY— A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY— A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY— A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW-VOLUME ROAD— A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD, OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

Type of Taper	Taper Length (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MINIMUM 100 FT MAXIMUM
DOWNSTREAM TAPER	50 FT MINIMUM 100 FT PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

Speed Limit (S)	Taper Length (L) Feet
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO

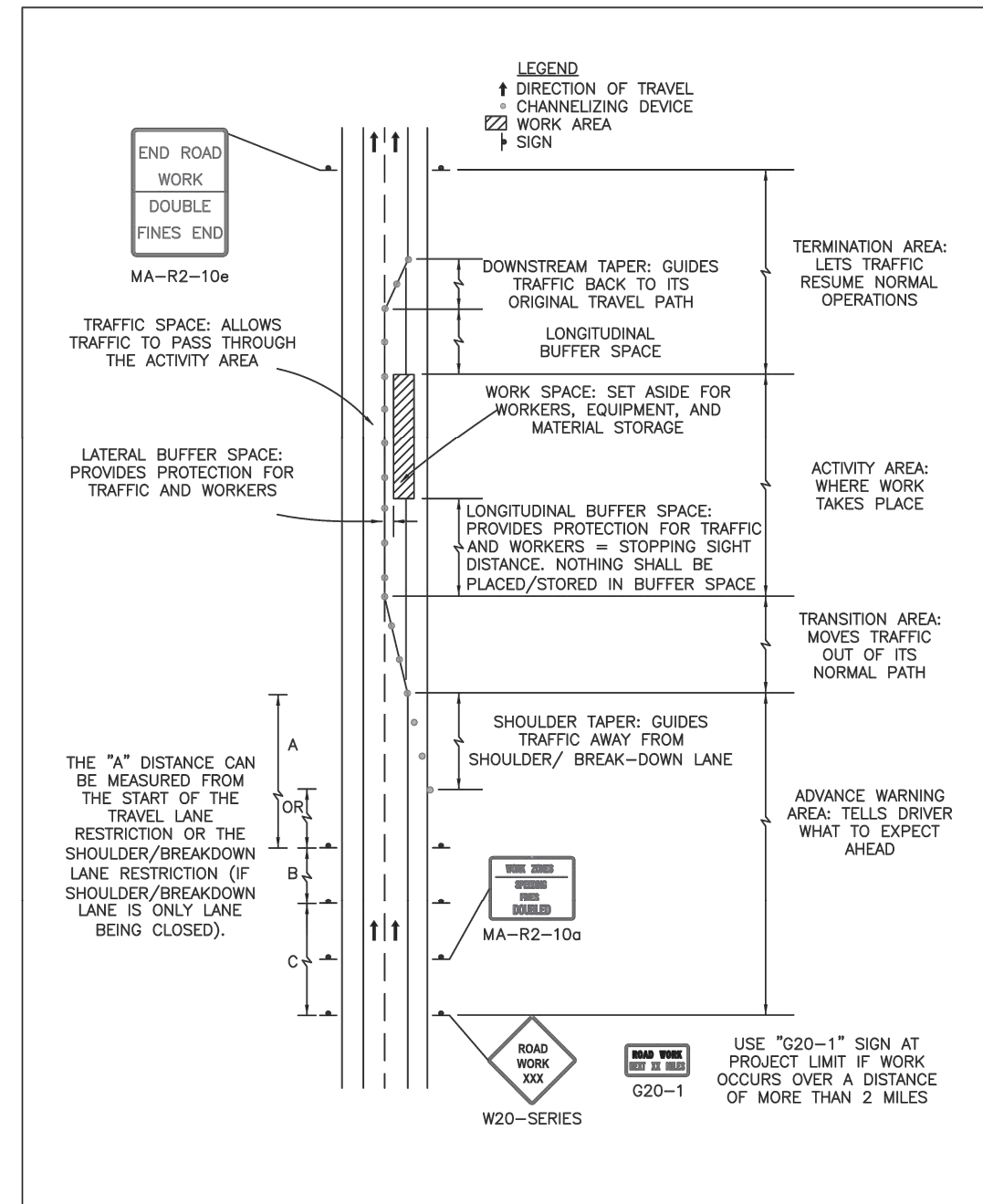
WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

Source: Table 6C-4 MUTCD LATEST EDITION



Notes for Traffic Management

FIGURE Gen-3
NOTES ON WORK ZONE DISTANCES



Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE Gen-4
COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE
NOT TO SCALE

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
 MASSDOT STANDARD FIGURES

PREPARED FOR:

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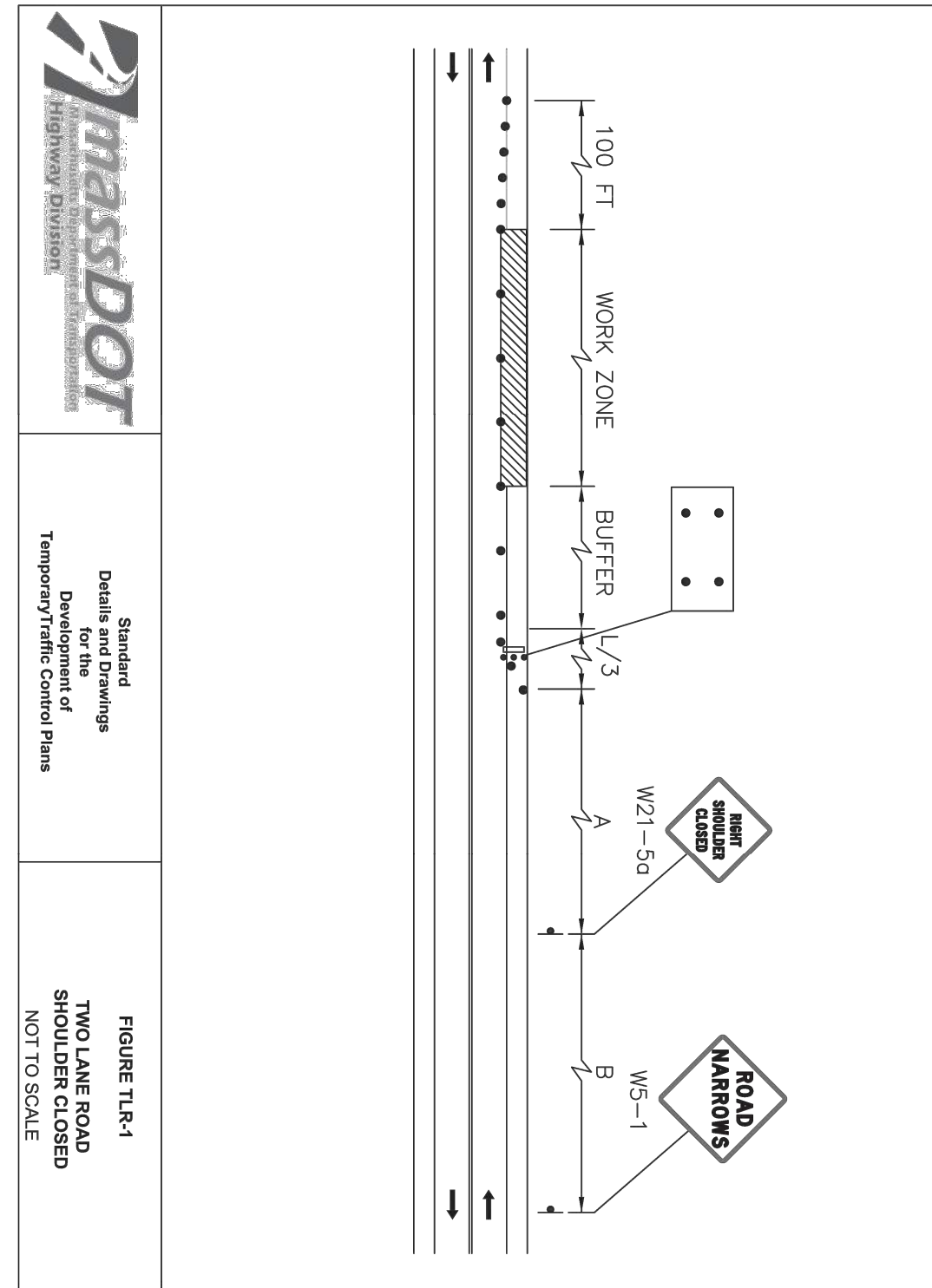
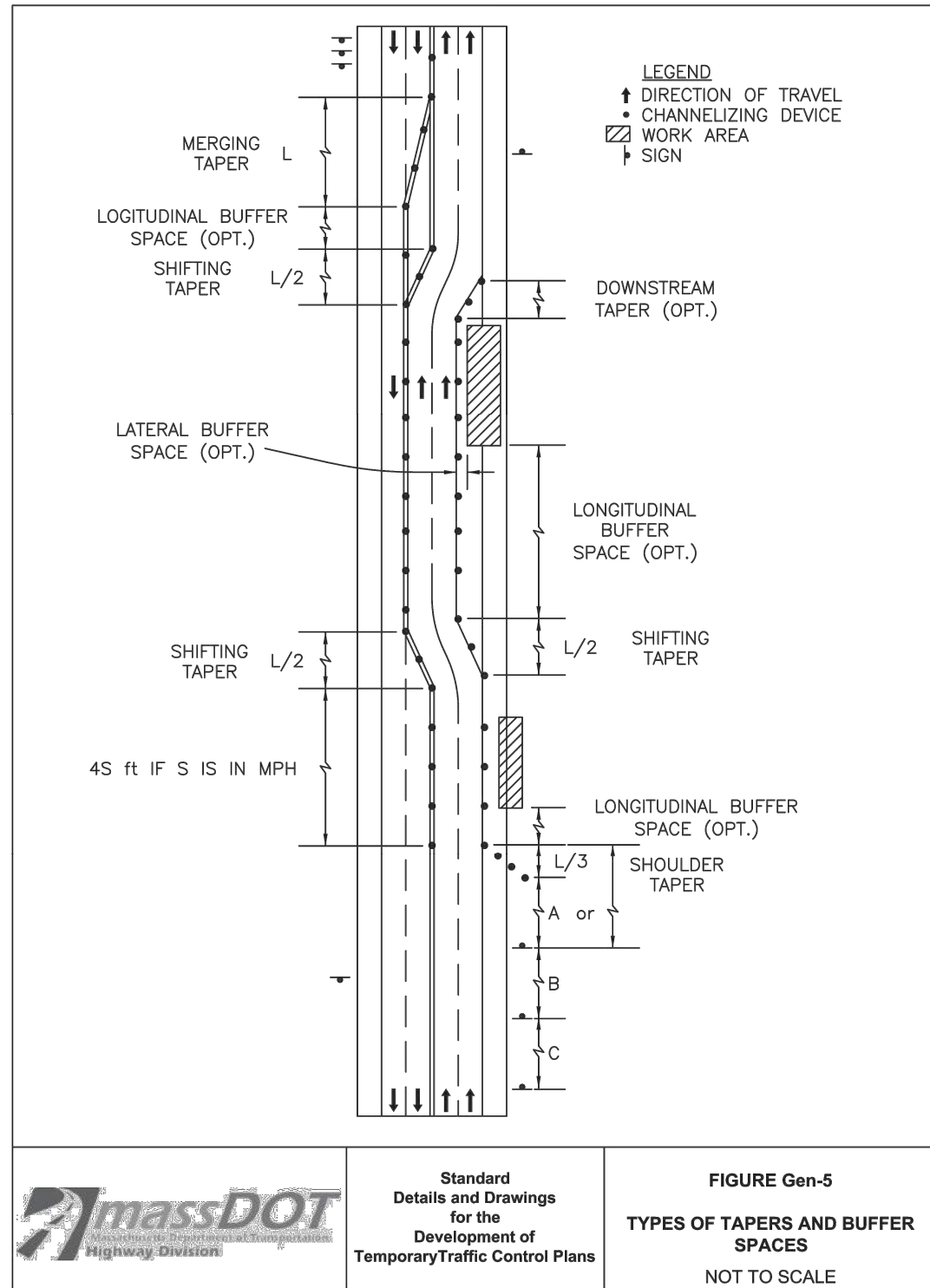
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JOB NO.: 89620.66 SCALE: NO SCALE
 ISSUE DATE: 01/16/2024 PLAN NO.: D-2
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A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
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TEMPORARY TRAFFIC CONTROL PLANS
MASSDOT STANDARD FIGURES

PREPARED FOR:

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 Worcester, MA
 01608

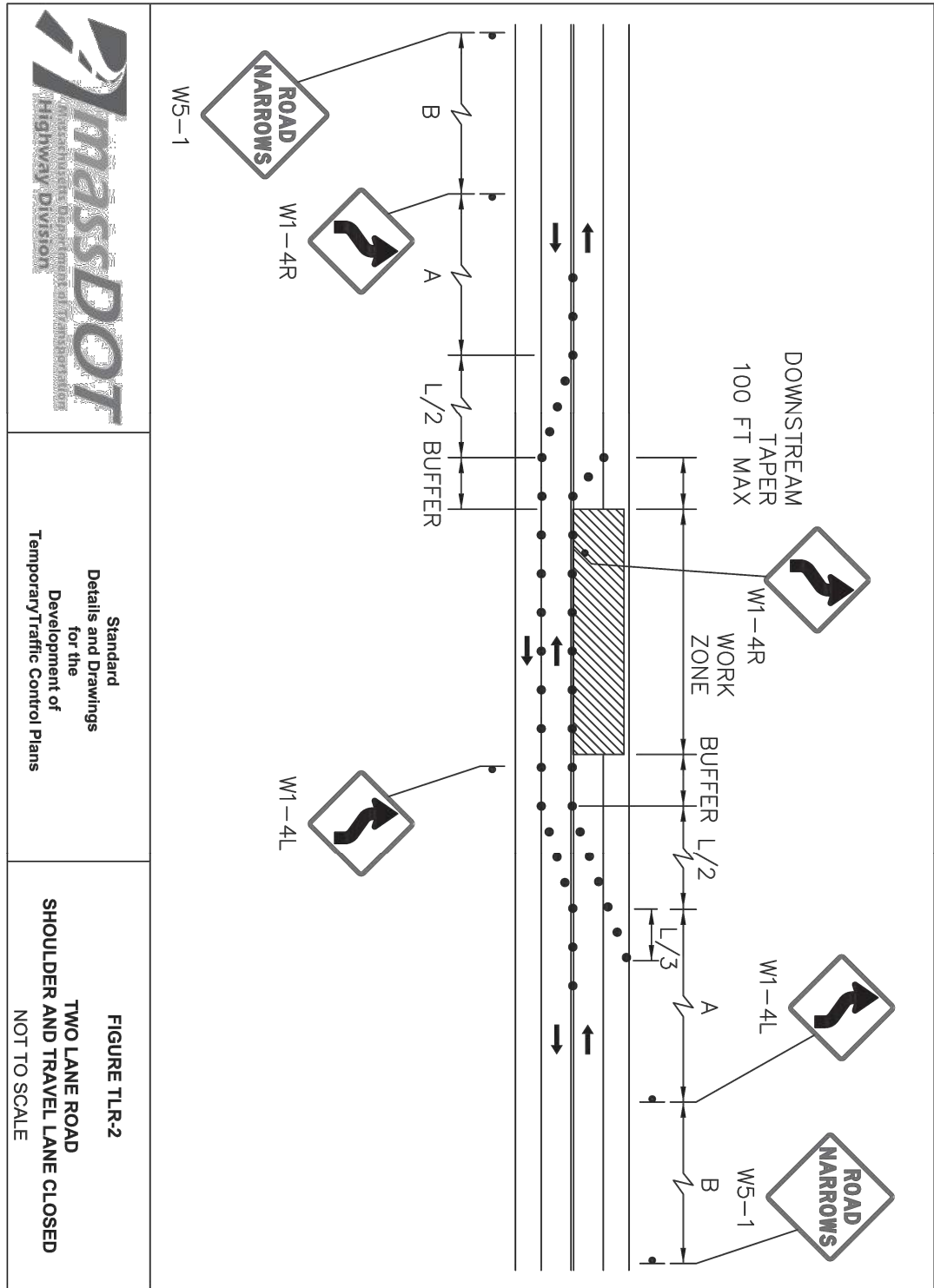
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 ISSUE DATE: 01/16/2024 PLAN NO.: D-3
 REV. DATE: 05/15/2025 SHEET NO.: 7 of 81

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A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

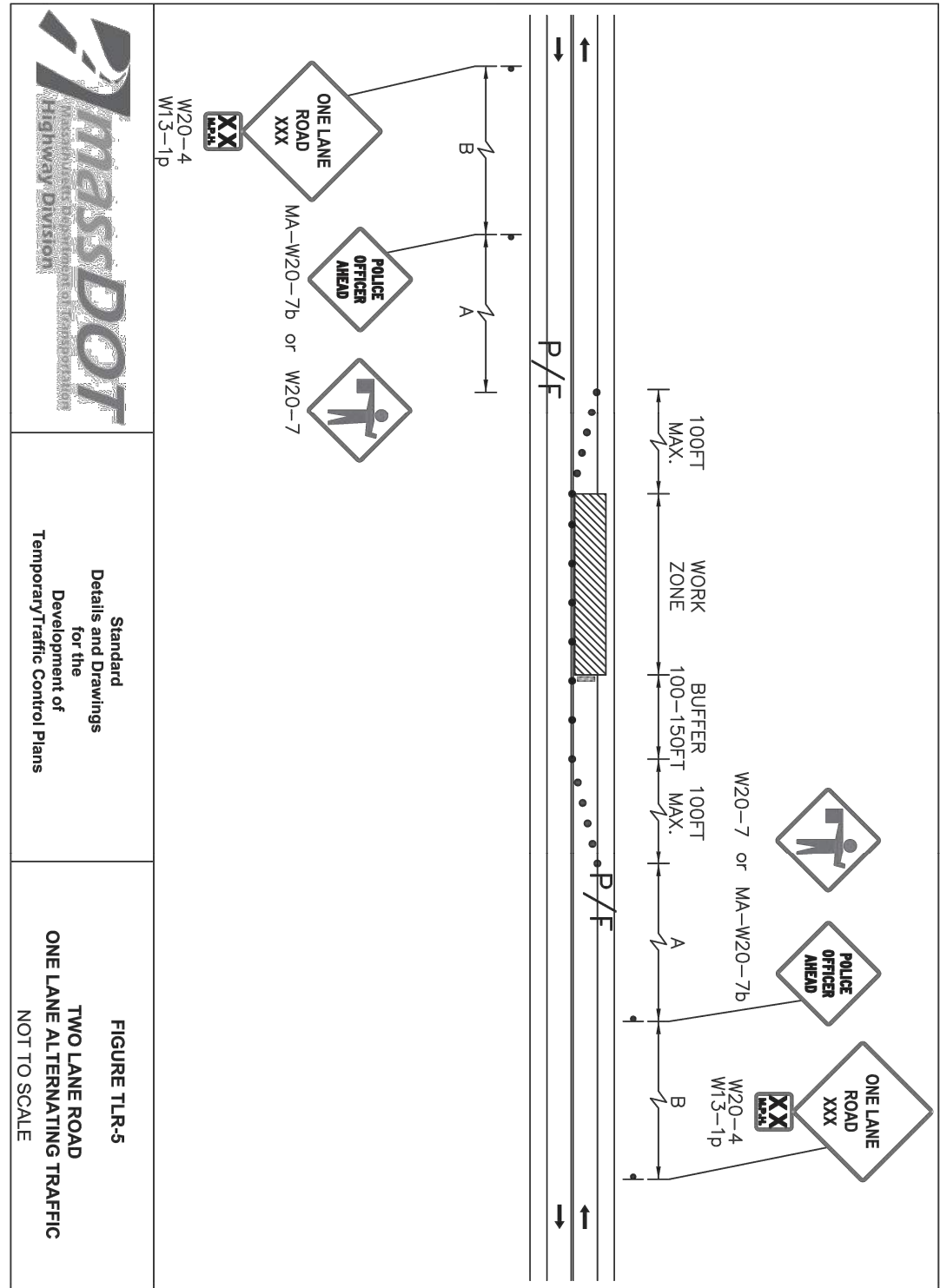
TEMPORARY TRAFFIC CONTROL PLANS

MASSDOT STANDARD FIGURES



Standard
 Details and Drawings
 for the
 Development of
 Temporary/Traffic Control Plans

FIGURE TLR-2
TWO LANE ROAD
AND TRAVEL LANE CLOSED
 NOT TO SCALE



Standard
 Details and Drawings
 for the
 Development of
 Temporary/Traffic Control Plans

FIGURE TLR-5
TWO LANE ROAD
ALTERNATING TRAFFIC
 NOT TO SCALE

PREPARED FOR:

nationalgrid

170 Data Drive
 Waltham, Massachusetts
 02451

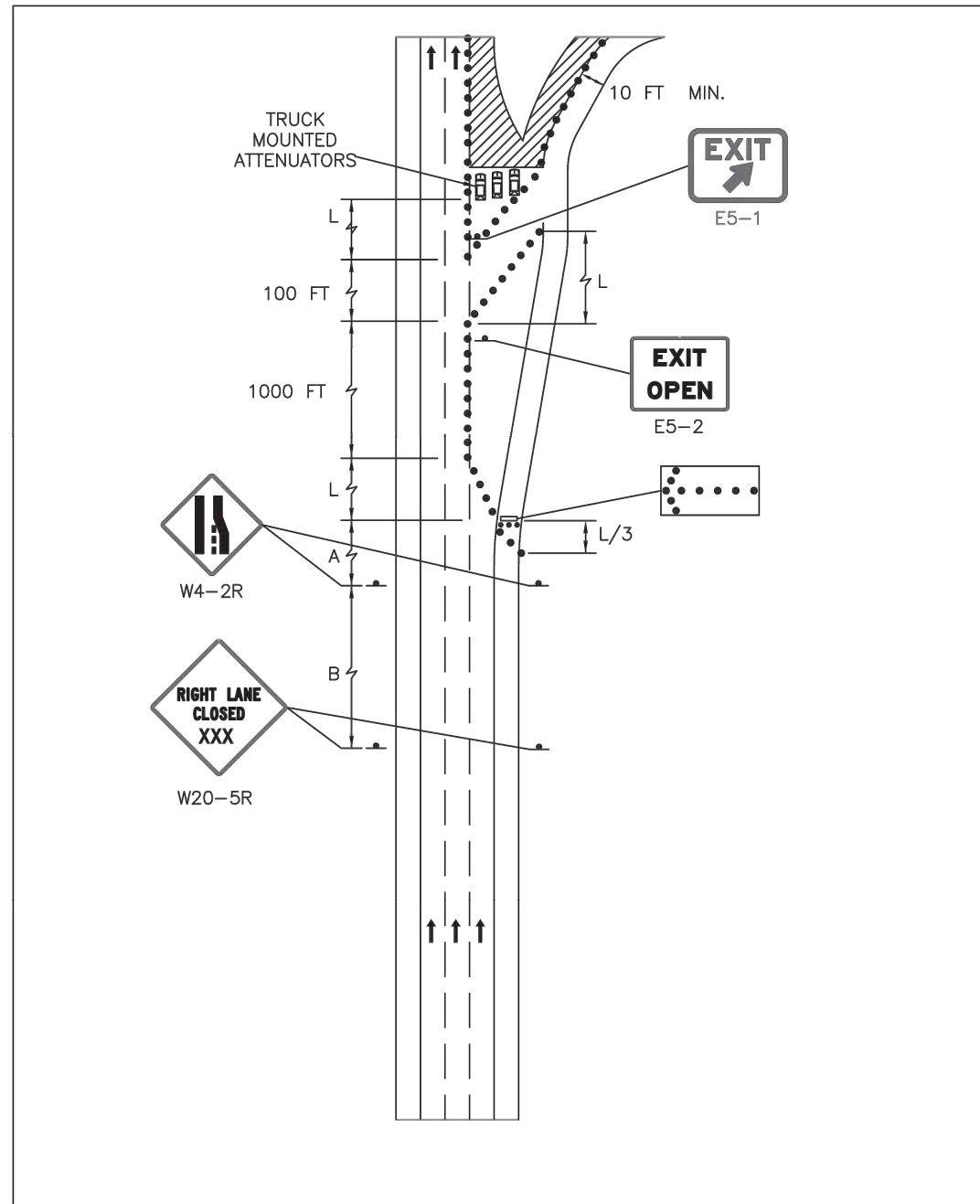
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1 Mercantile Street
 Worcester, MA
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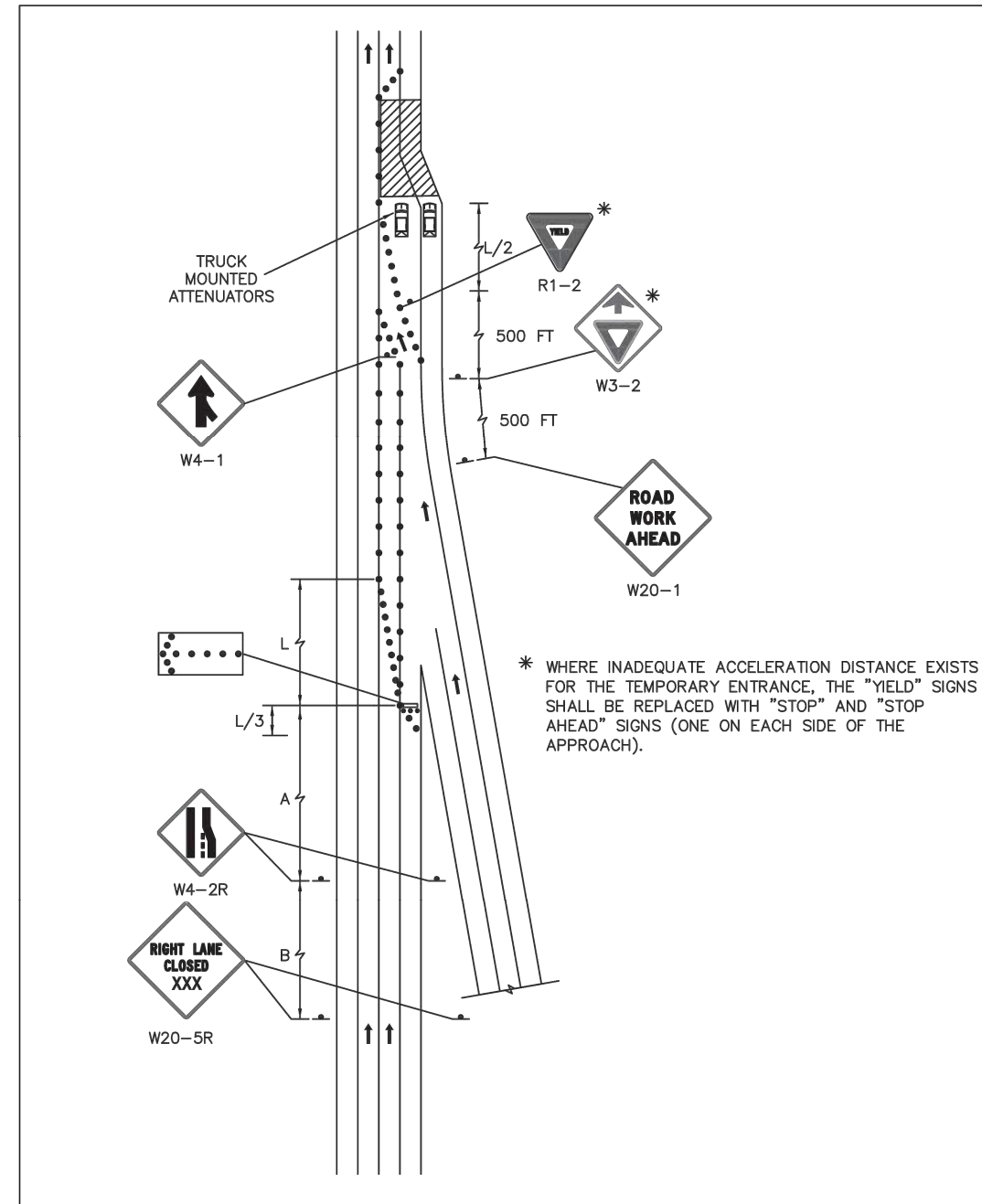
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 REV. DATE: 05/15/2025 SHEET NO.: 8 of 81

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Standard
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FIGURE R-2
WORK IN VICINITY OF EXIT RAMP
NOT TO SCALE



Standard
Details and Drawings
for the
Development of
Temporary Traffic Control Plans

FIGURE R-4
WORK BEYOND ENTRANCE RAMP
NOT TO SCALE

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
MASSDOT STANDARD FIGURES

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

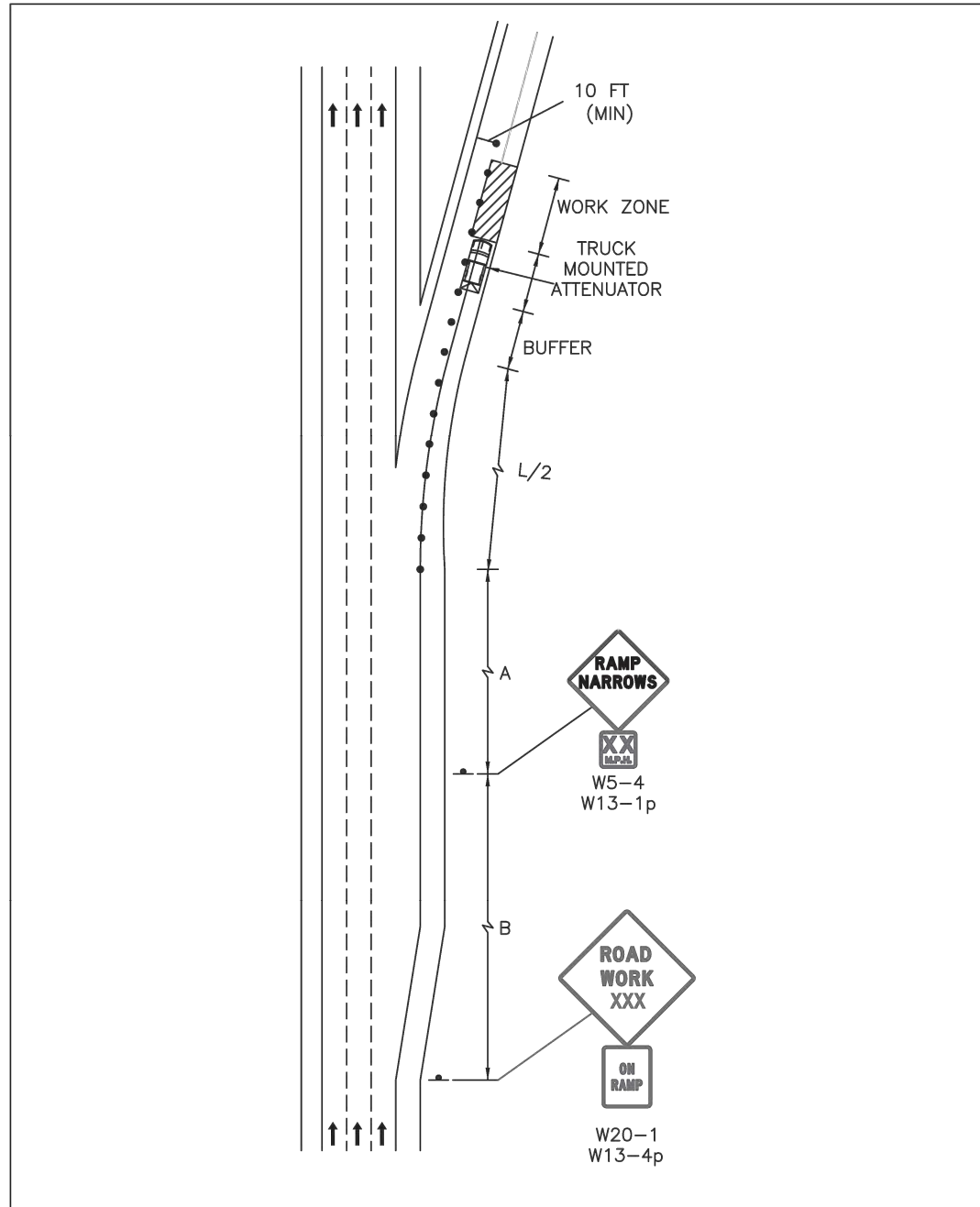
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01608

JOB NO.: 89620.66 SCALE: NO SCALE
ISSUE DATE: 01/16/2024 PLAN NO.: D-5
REV. DATE: 05/15/2025 SHEET NO.: 9 of 81

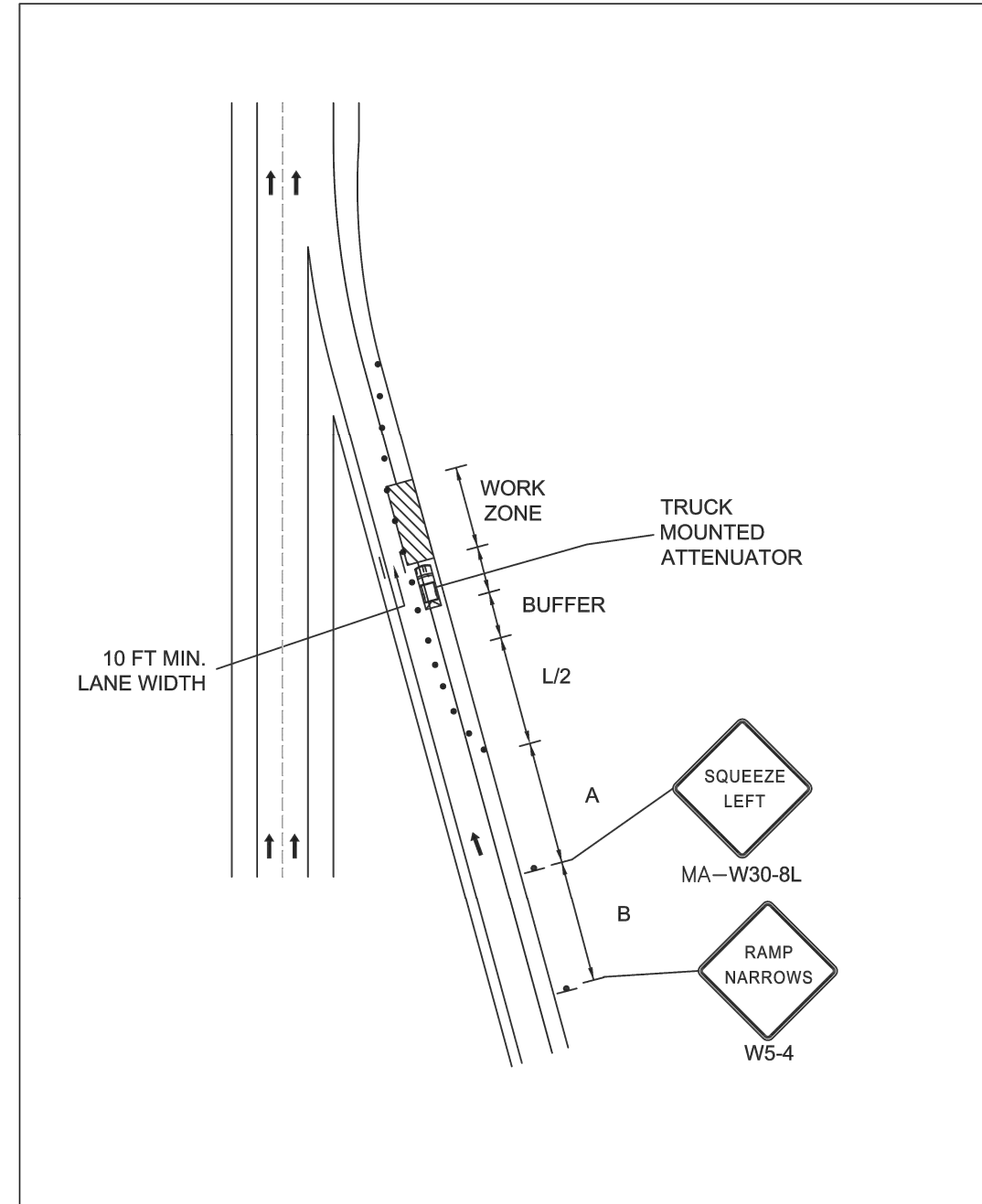
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Standard
 Details and Drawings
 for the
 Development of
 Temporary Traffic Control Plans

FIGURE R-5
PARTIAL EXIT RAMP CLOSURE

NOT TO SCALE



Standard
 Details and Drawings
 for the
 Development of
 Temporary Traffic Control Plans

FIGURE R-6
PARTIAL ENTRANCE RAMP CLOSURE

NOT TO SCALE

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
MASSDOT STANDARD FIGURES

PREPARED FOR:

nationalgrid

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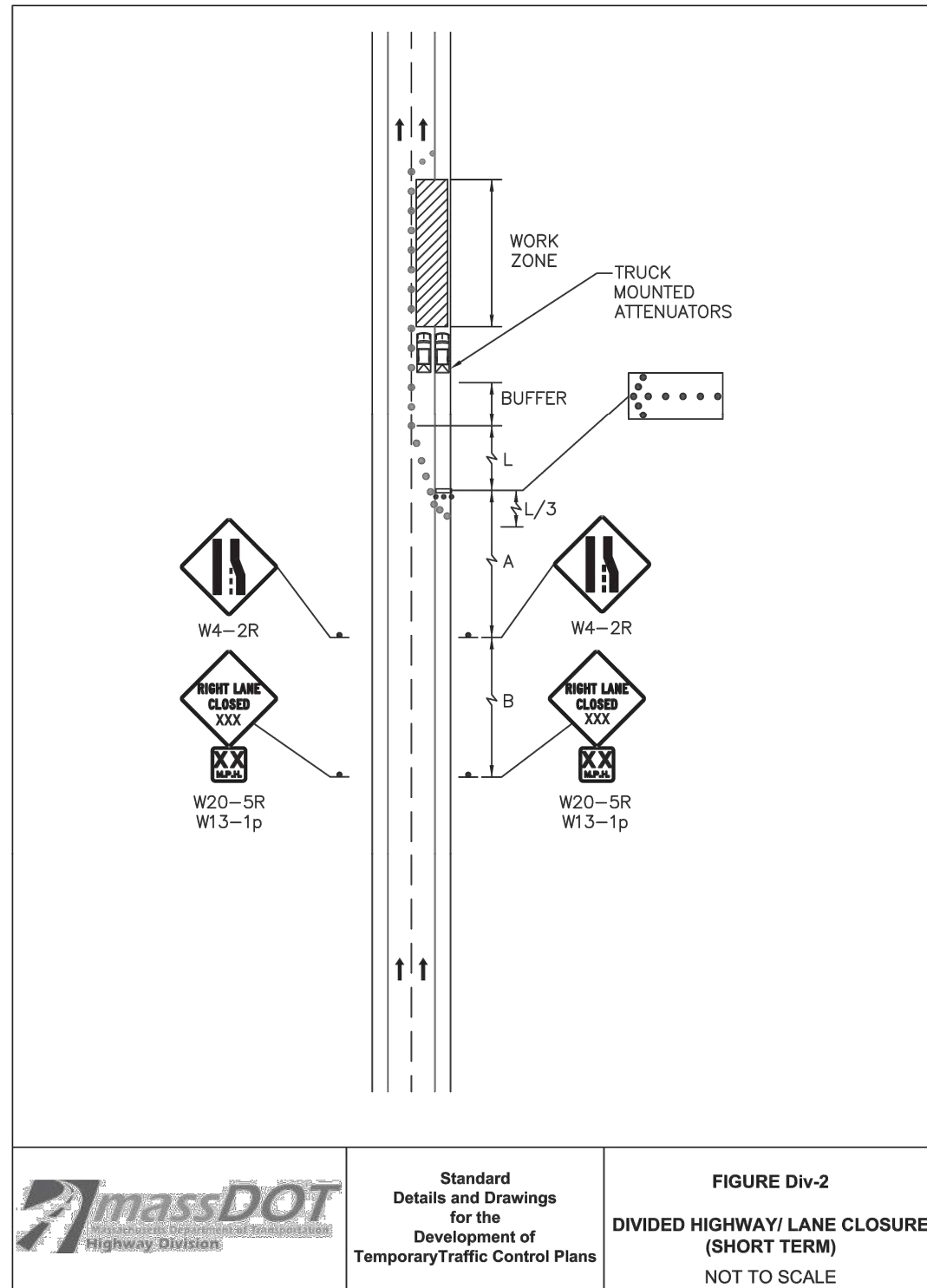
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 ISSUE DATE: 01/16/2024 PLAN NO.: D-6
 REV. DATE: 05/15/2025 SHEET NO.: 10 of 81

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Standard
Details and Drawings
for the
Development of
Temporary Traffic Control Plans

FIGURE Div-2
DIVIDED HIGHWAY/ LANE CLOSURE
(SHORT TERM)
NOT TO SCALE

	ENVIRONMENTAL GUIDANCE	
	Doc. No.	EG-303NE
	Page: 7-22	Rev. No. 4
Date		09/14/15
SUBJECT Access, Maintenance and Construction Best Management Practices		Reference EP No. 3 - Natural Resource Protection (Chapter 6)

BMP DETAIL

SCALE: NONE

NOTES:

- STONE SIZE - USE 2" STONE (MINIMUM) TO 6" STONE (MAXIMUM)
- LENGTH - GREATER THAN OR EQUAL TO 50 FEET
- THICKNESS - 4"
- WIDTH - FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
- THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES/EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE/EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDED, AND MULCHED AS NEEDED. ENTRANCE/EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND/OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL SCIENTIST AND PROPERTY LEGAL.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
MASSDOT STANDARD FIGURES

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

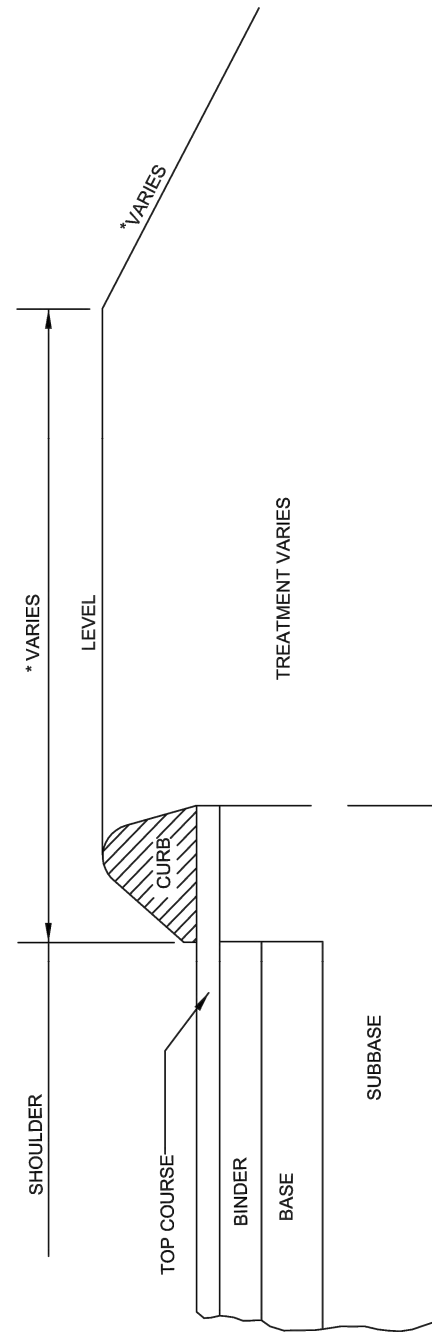
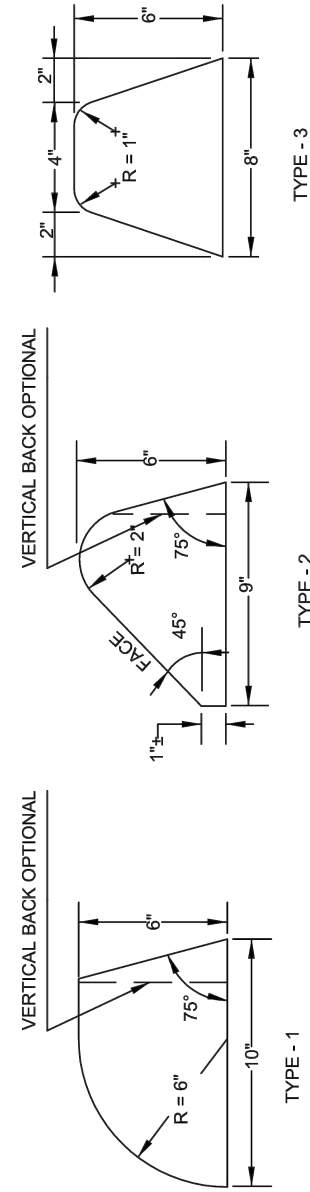
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REV. DATE: 05/15/2025	SHEET NO.: 11 of 81

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HOT MIX ASPHALT CURBS

DATE OF ISSUE
 OCTOBER 2017
 DRAWING NUMBER
E 106.2.0

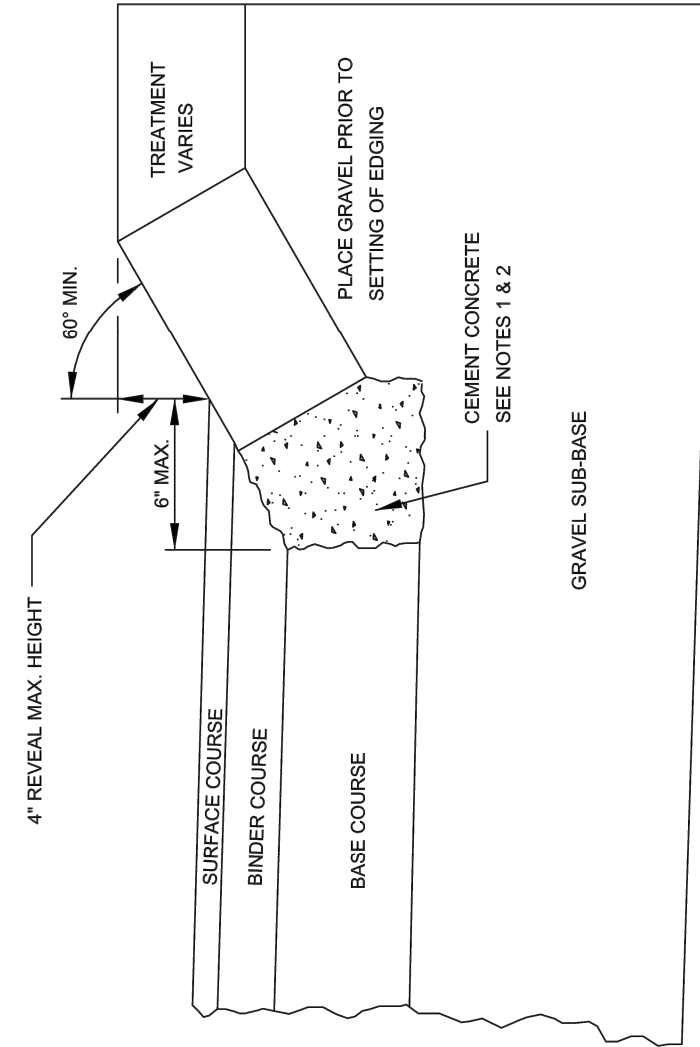


METHOD OF SETTING-TYPICAL FOR ALL TYPES
 * SEE TYPICAL SECTIONS FOR PROJECT.



METHOD OF SETTING SLOPED EDGING

DATE OF ISSUE
 OCTOBER 2017
 DRAWING NUMBER
E 106.5.0



SLOPED EDGING

NOTES:

1. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE TO THE DEPARTMENT UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS; ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT TO BE USED AS A SUBSTITUTE.
2. THE REVEAL IS TO BE A MAXIMUM OF 4" UNDER ALL CONDITIONS, THE ANGLE IS TO BE A MINIMUM OF 60° FROM VERTICAL UNDER ALL CONDITIONS.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

MASSDOT STANDARD FIGURES

PREPARED FOR:

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170 Data Drive
Waltham, Massachusetts
02451

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Worcester, MA
01608

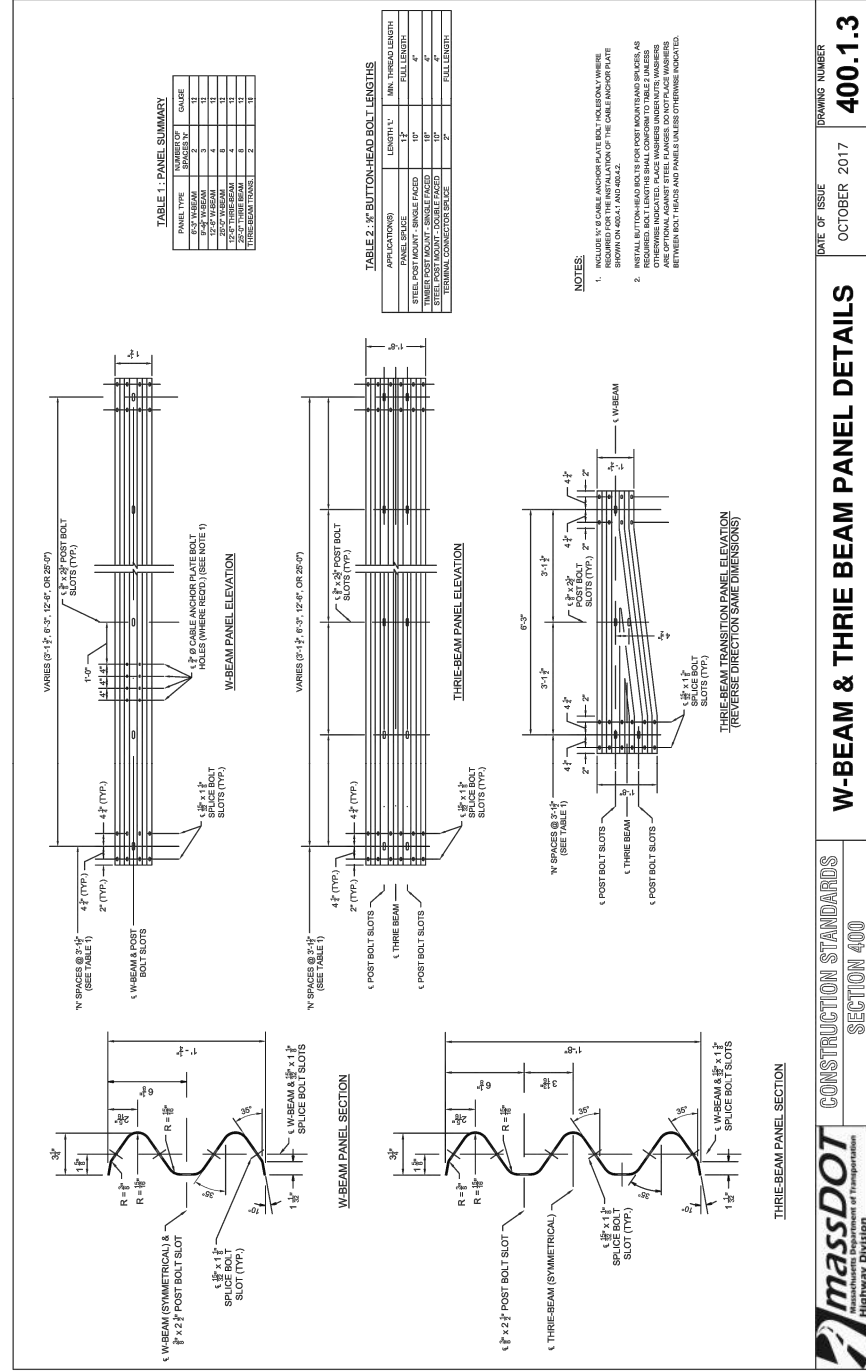
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 REV. DATE: 05/15/2025 SHEET NO.: 12 of 81

A1/B2 LINE ASSET CONDITION REFRUBISHMENT PROJECT

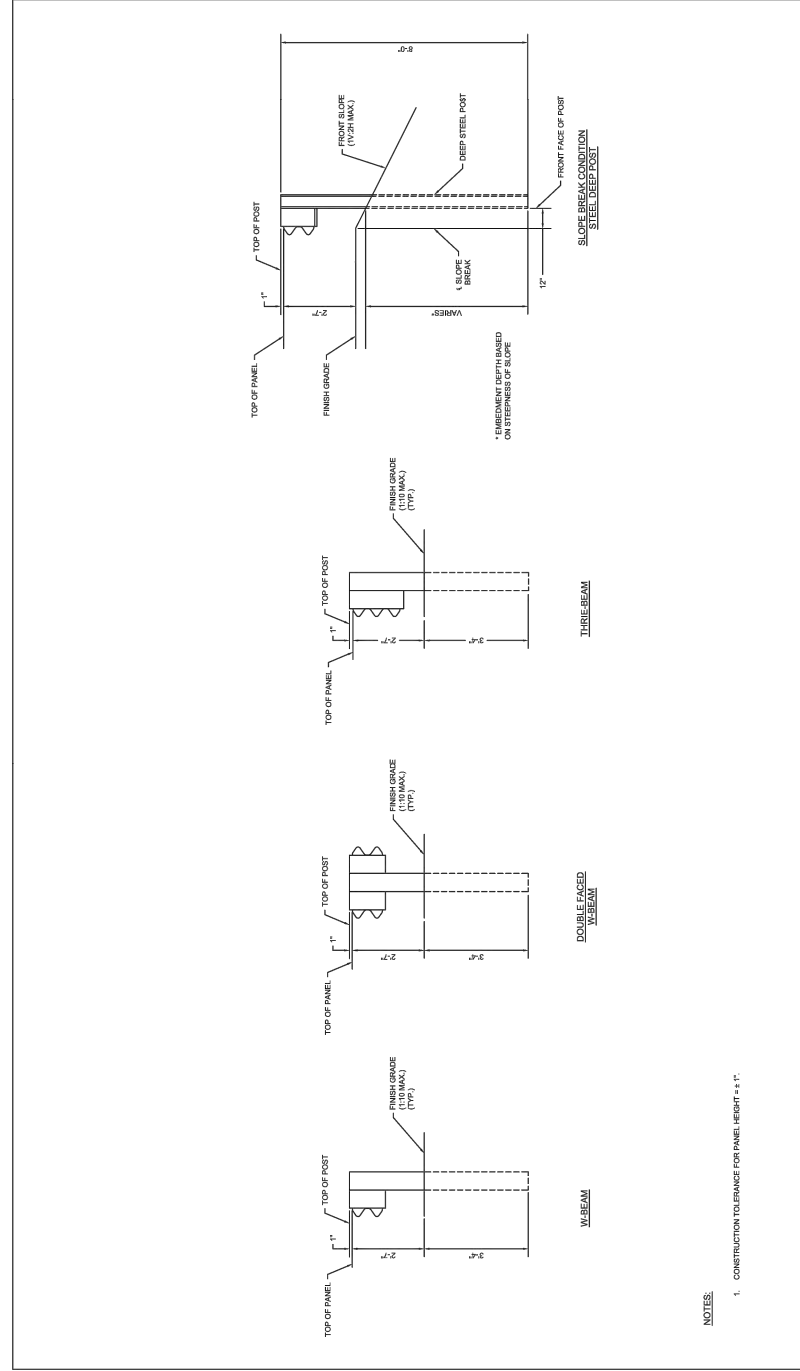
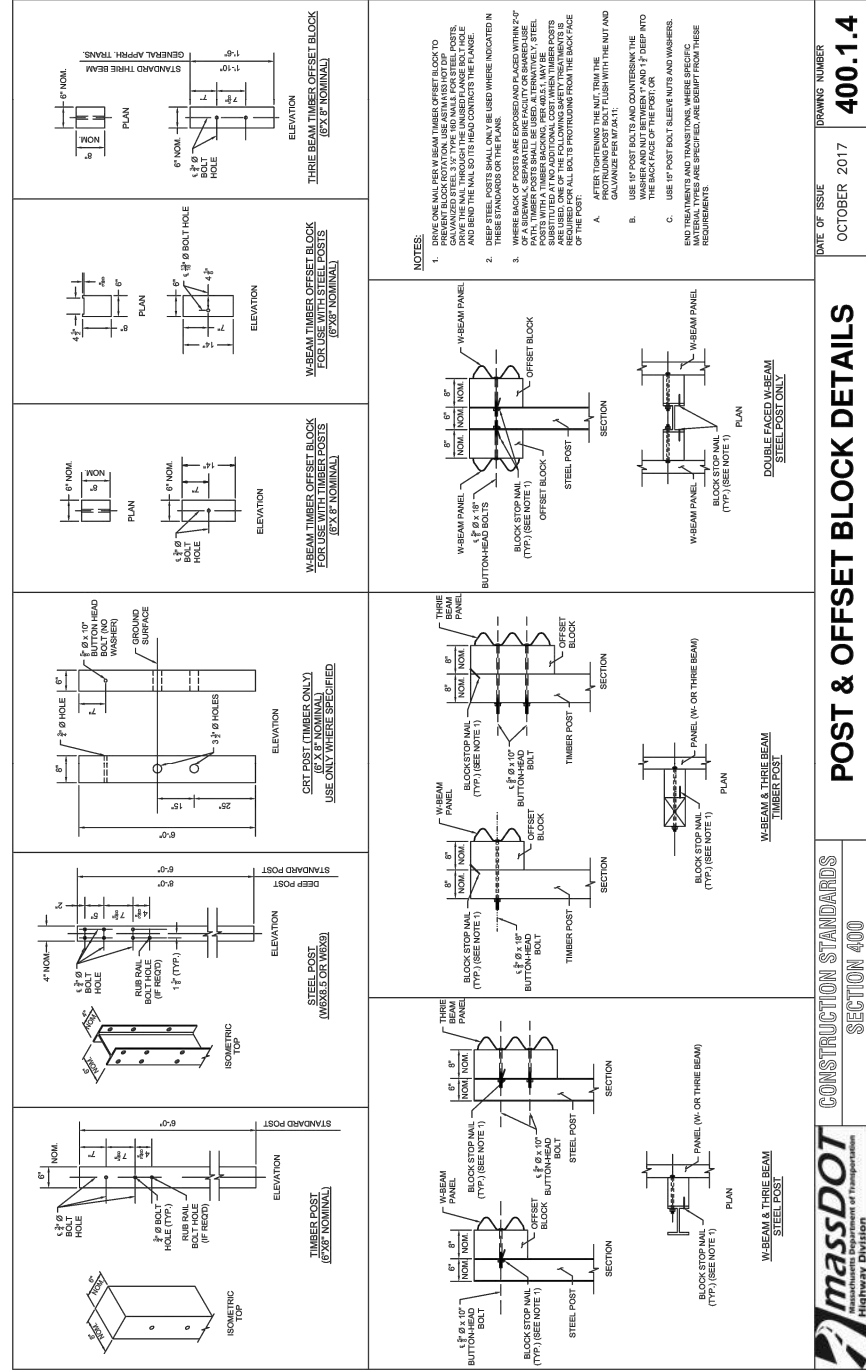
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

MASSDOT STANDARD FIGURES



CONSTRUCTION STANDARDS SECTION 400
W-BEAM & THREE BEAM PANEL DETAILS
 DATE OF ISSUE: OCTOBER 2017
 DRAWING NUMBER: **400.1.3**



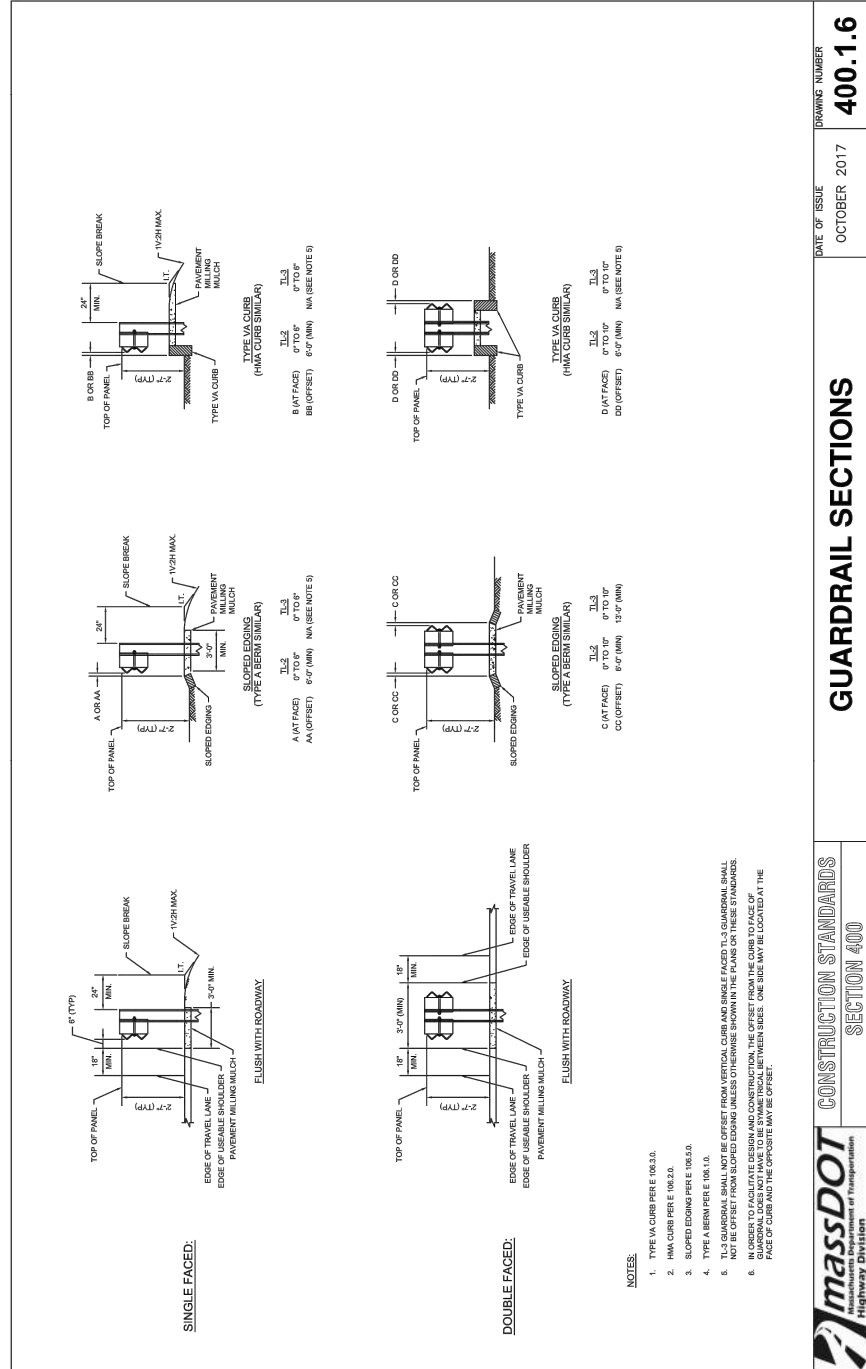
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nationalgrid
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 Waltham, Massachusetts
 02451

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 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: NO SCALE
 ISSUE DATE: 01/16/2024 PLAN NO.: D-10
 REV. DATE: 05/15/2025 SHEET NO.: 14 of 81



massDOT Massachusetts Department of Transportation Highway Division

CONSTRUCTION STANDARDS SECTION 400

GUARDRAIL SECTIONS

DATE OF ISSUE: OCTOBER 2017

DRAWING NUMBER: **400.1.6**

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

MASSDOT STANDARD FIGURES

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nationalgrid

170 Data Drive
 Waltham, Massachusetts
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1 Mercantile Street
 Worcester, MA
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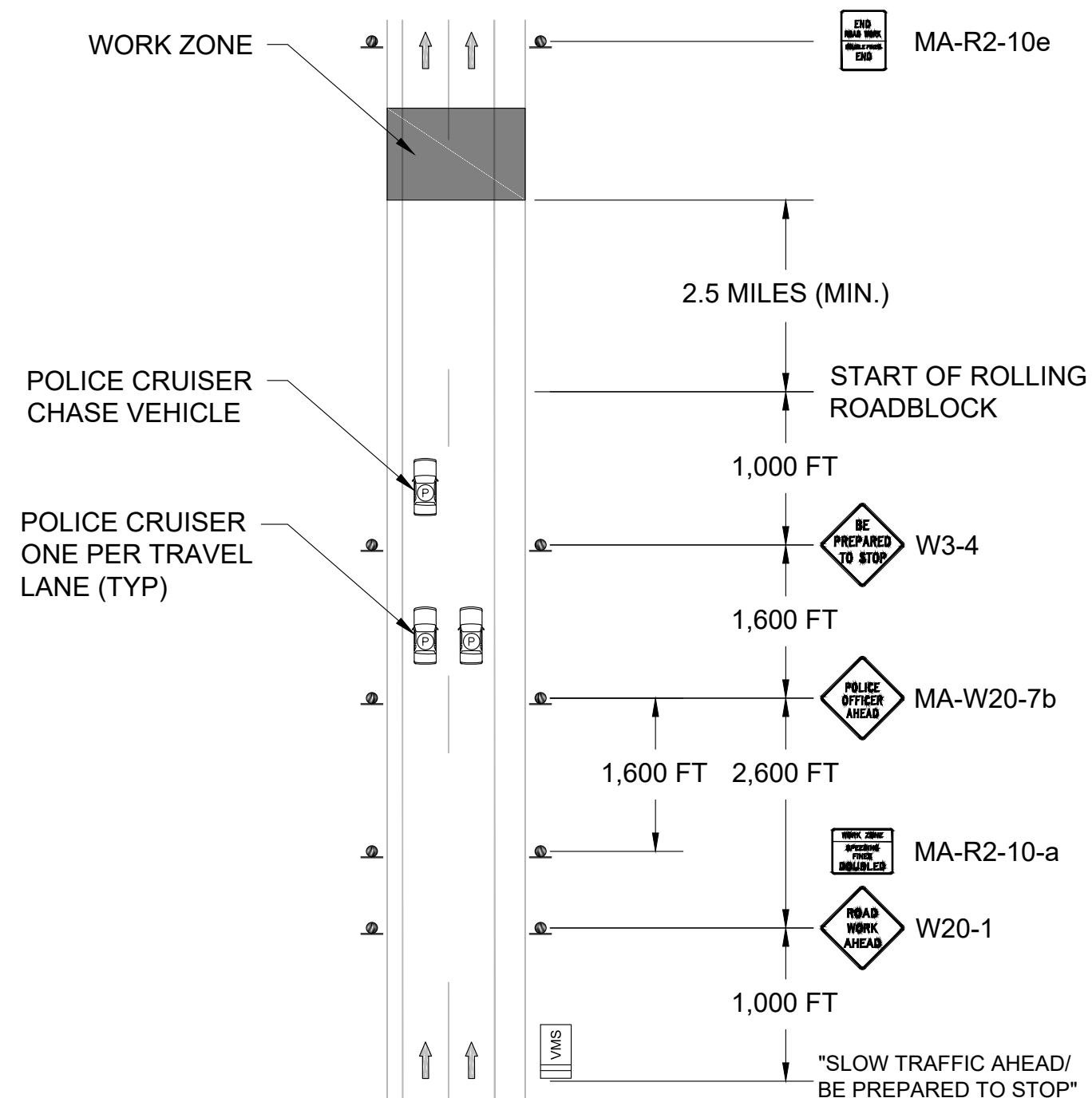
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ISSUE DATE: 01/16/2024	PLAN NO.: D-11
REV. DATE: 05/15/2025	SHEET NO.: 15 of 81

ROLLING ROADBLOCK NOTES

GENERAL GUIDELINES & PROCEDURES

1. DESIGNATE A TRAFFIC CONTROL SUPERVISOR (TCS) TO COORDINATE WITH CONTRACTOR/POLICE DETAILS DURING PREPARATION AND EXECUTION OF THE ROLLING ROADBLOCK (RRB).
2. PLACE VARIABLE MESSAGE SIGNS (VMS) UPSTREAM (IN ADVANCE) OF THE RRB WORK ZONE, ONE IN EACH DIRECTION OF TRAVEL, AT LEAST 24 HOURS IN ADVANCE OF THE START OF THE RRB. MESSAGE SHOULD READ "SLOW TRAFFIC AHEAD/BE PREPARED TO STOP."
3. PLACE TRAFFIC MANAGEMENT SIGNS ON BOTH SIDES OF THE ROADWAY AT LEAST ONE HOUR IN ADVANCE OF THE START OF THE RRB. SEE DETAIL THIS SHEET.
4. PROVIDE ONE POLICE CRUISER PER TRAVEL LANE.
5. FOR THE DURATION OF THE RRB, ALL ON-RAMPS WITHIN THE LIMITS OF THE RRB SHALL BE TEMPORARILY CLOSED USING POLICE DETAILS WITH CRUISERS.
6. AT THE START OF THE RRB, POLICE CRUISERS AND THE CHASE VEHICLE SHALL ENTER THE HIGHWAY FROM EACH DIRECTION, AT LEAST 2.5 MILES UPSTREAM OF THE START OF THE RRB. THE POLICE CRUISERS SHALL FORM A MOVING BLOCKADE, DECELERATING TO A FIXED SPEED OF 10 MPH. THE VEHICLE QUEUE SHOULD NEVER STOP COMPLETELY.
7. THE CHASE VEHICLE SHALL FOLLOW THE LAST FREE-FLOWING VEHICLE WHICH IS DRIVING AHEAD OF THE POLICE CRUISER BLOCKADE, CREATING A LARGE GAP IN TRAFFIC. WHEN THE CHASE VEHICLE PASSES THE WORK SITE AND THE TCS PROVIDES THE ALL-CLEAR, HIGHWAY PULL-OVER WORK MAY COMMENCE.
8. BASED UPON A SPEED OF 10 MPH WITH THE RRB STARTING AT LEAST 2.5 MILES FROM THE WORK ZONE, THE TOTAL WORK PULL-OVER WORK TIME SHALL NOT EXCEED 10 MINUTES.
9. UPON COMPLETION OF THE PULL-OVER WORK, HIGHWAY TRAVEL MAY RESUME FREE-FLOWING SPEED AND THE TEMPORARILY-CLOSED ON-RAMPS MAY BE RE-OPENED.

ROLLING ROADBLOCK DETAILS



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

MASSDOT STANDARD FIGURES

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170 Data Drive
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 02451

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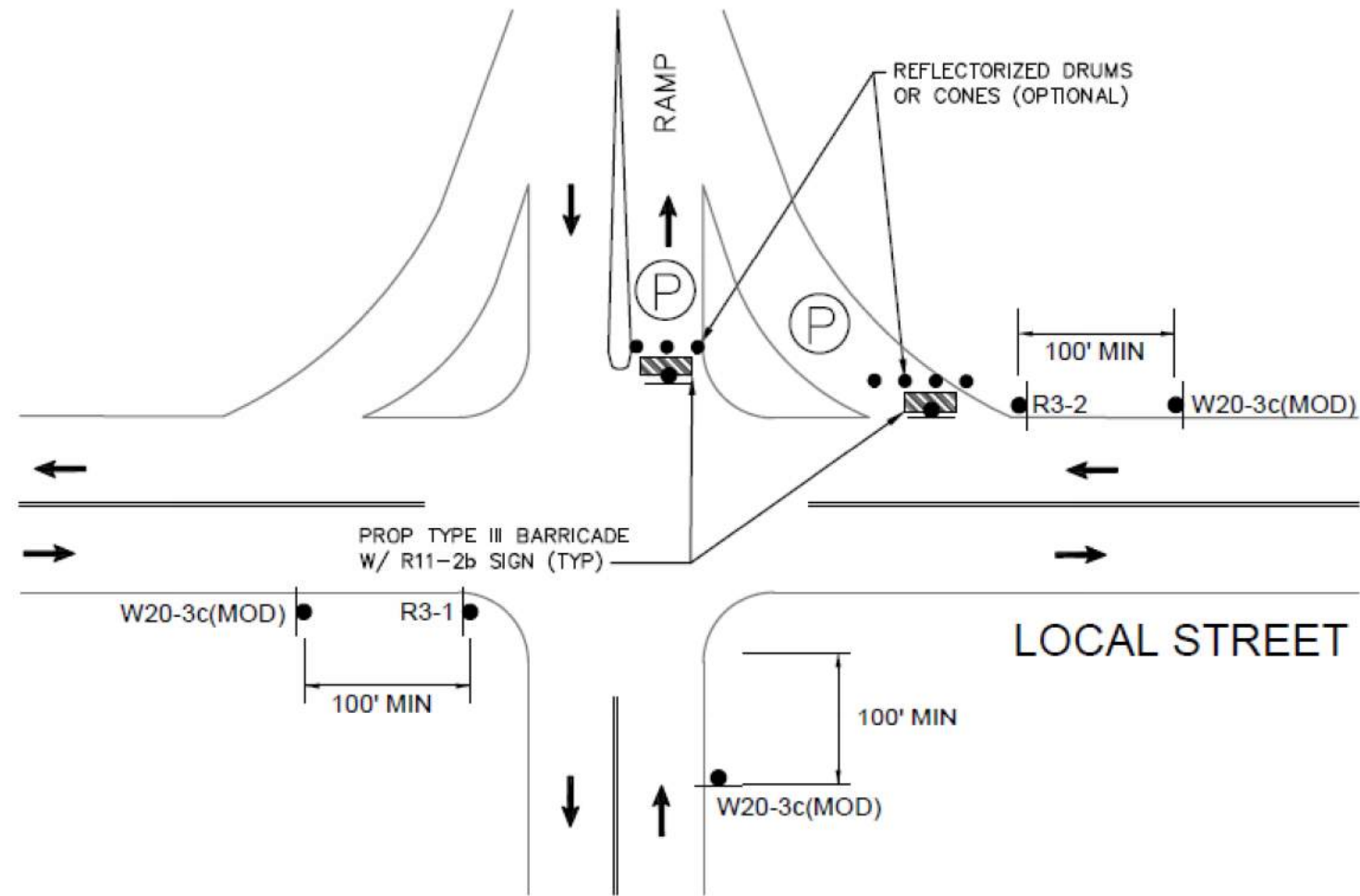
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1 Mercantile Street
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JOB NO.: 89620.66 SCALE: NO SCALE
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 REV. DATE: 05/15/2025 SHEET NO.: 16 of 81

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ROLLING ROAD BLOCK (RRB)
TYPICAL RAMP SETUP

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
MASSDOT STANDARD FIGURES

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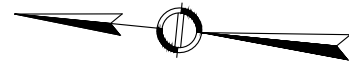
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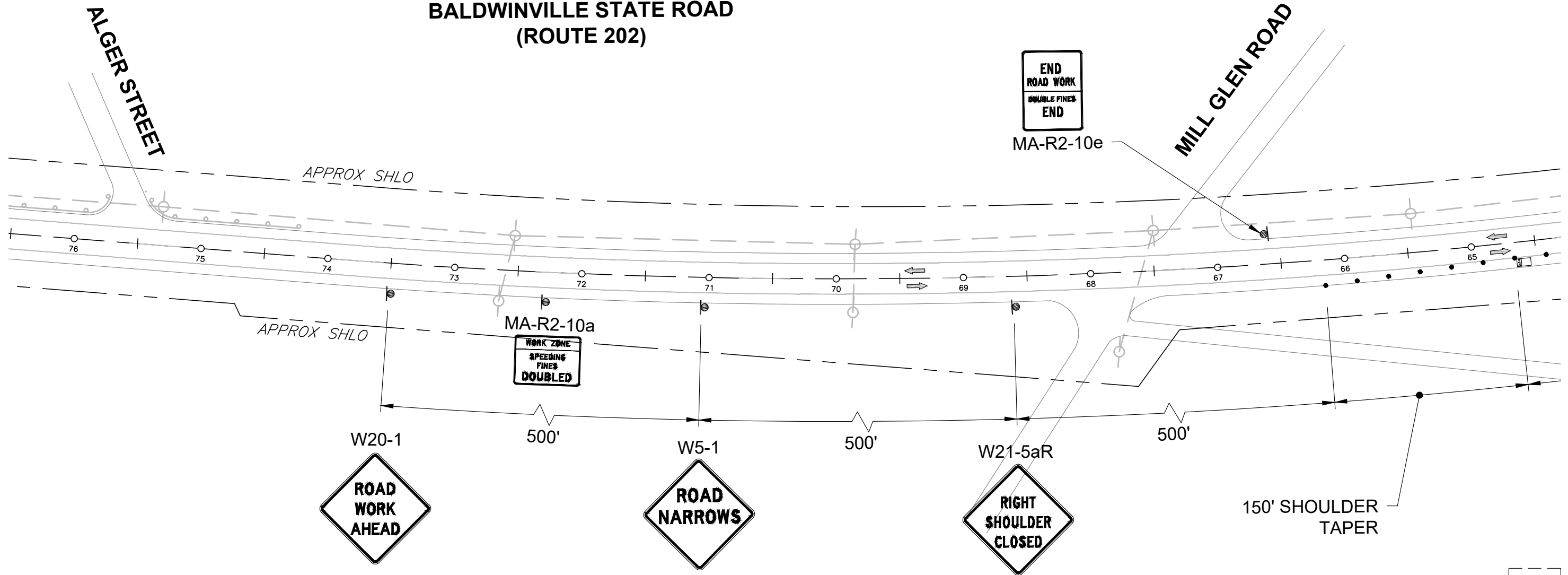
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 01608

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 REV. DATE: 05/15/2025 SHEET NO.: 17 of 81

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BALDWINVILLE STATE ROAD (ROUTE 202)



CONT. ON
PLAN A1-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #1
MASSACHUSETTS ROUTE 202
WINCHENDON

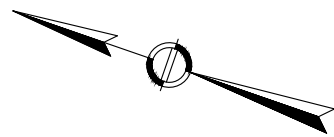
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02451

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Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A1-1
REV. DATE: 05/15/2025 SHEET NO.: 18 of 81



BALDWINVILLE STATE ROAD (ROUTE 202)

STR. #348

A1/B2 LINE



MA-R2-10a

500'

W20-1

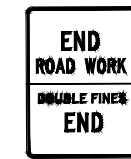
REFL. DRUMS OR CONES
@ 25' O.C.

LANE WIDTH -
11' MIN

APPROX SHLO

APPROX SHLO

MA-R2-10e



100' DOWNSTREAM TAPER

150' WORK ZONE

TEMPORARY ACCESS VIA
EXISTING PATH

STR. #347

MAIN STREET

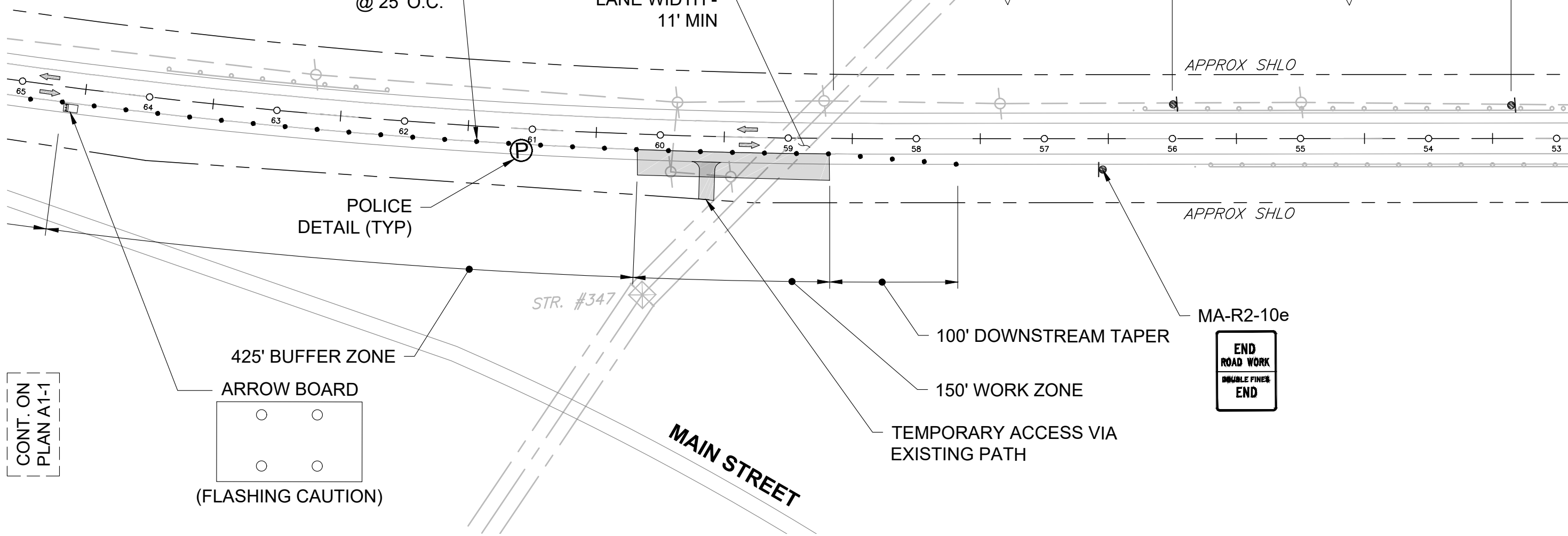
POLICE
DETAIL (TYP)

425' BUFFER ZONE

ARROW BOARD

(FLASHING CAUTION)

CONT. ON
PLAN A1-1



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #1
MASSACHUSETTS ROUTE 202
WINCHENDON

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170 Data Drive
Waltham, Massachusetts
02451

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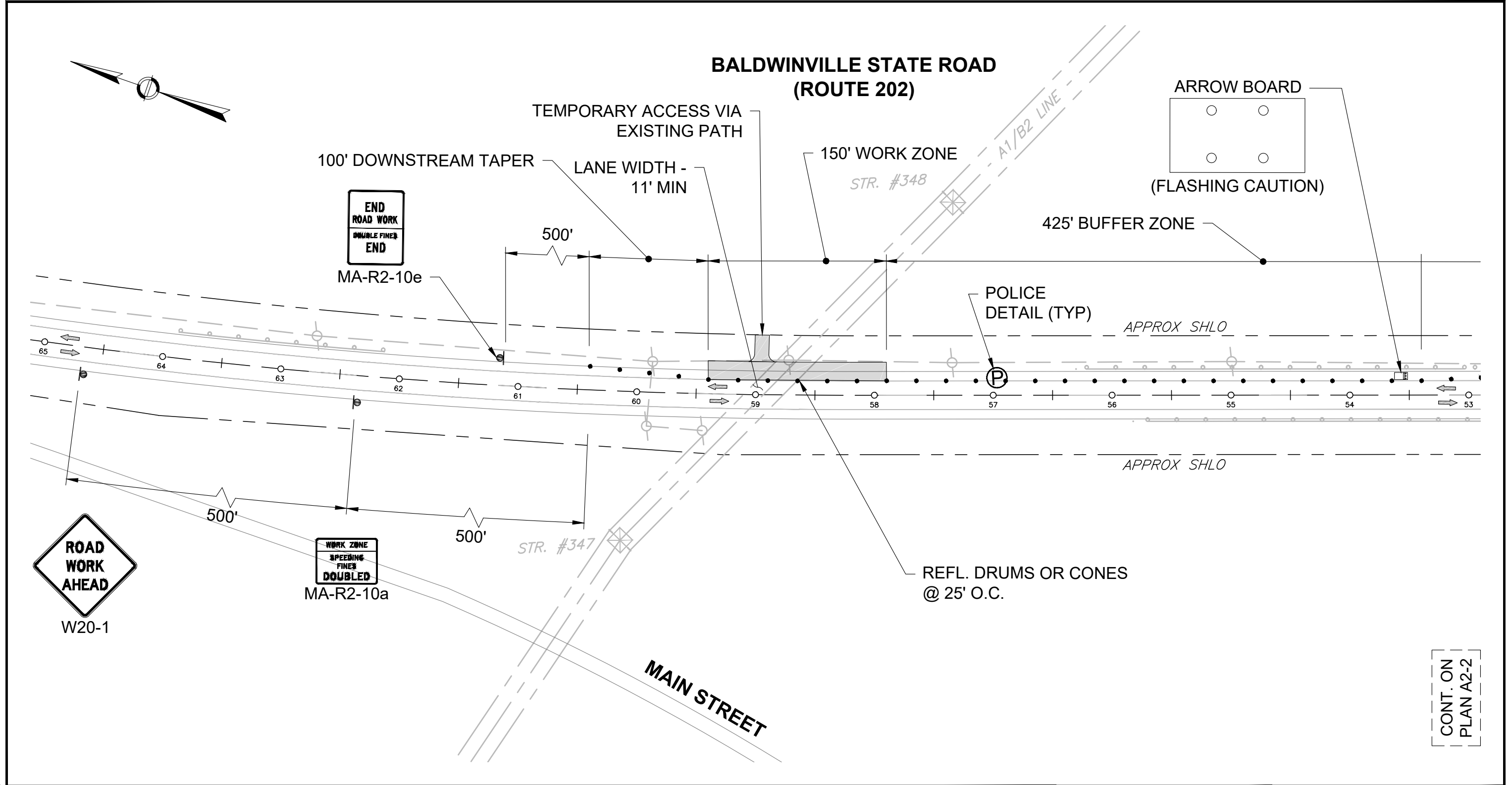
BSC GROUP
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1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A1-2
REV. DATE: 05/15/2025 SHEET NO.: 19 of 81

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A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

**HIGHWAY ACCESS #2
MASSACHUSETTS ROUTE 202
WINCHENDON**

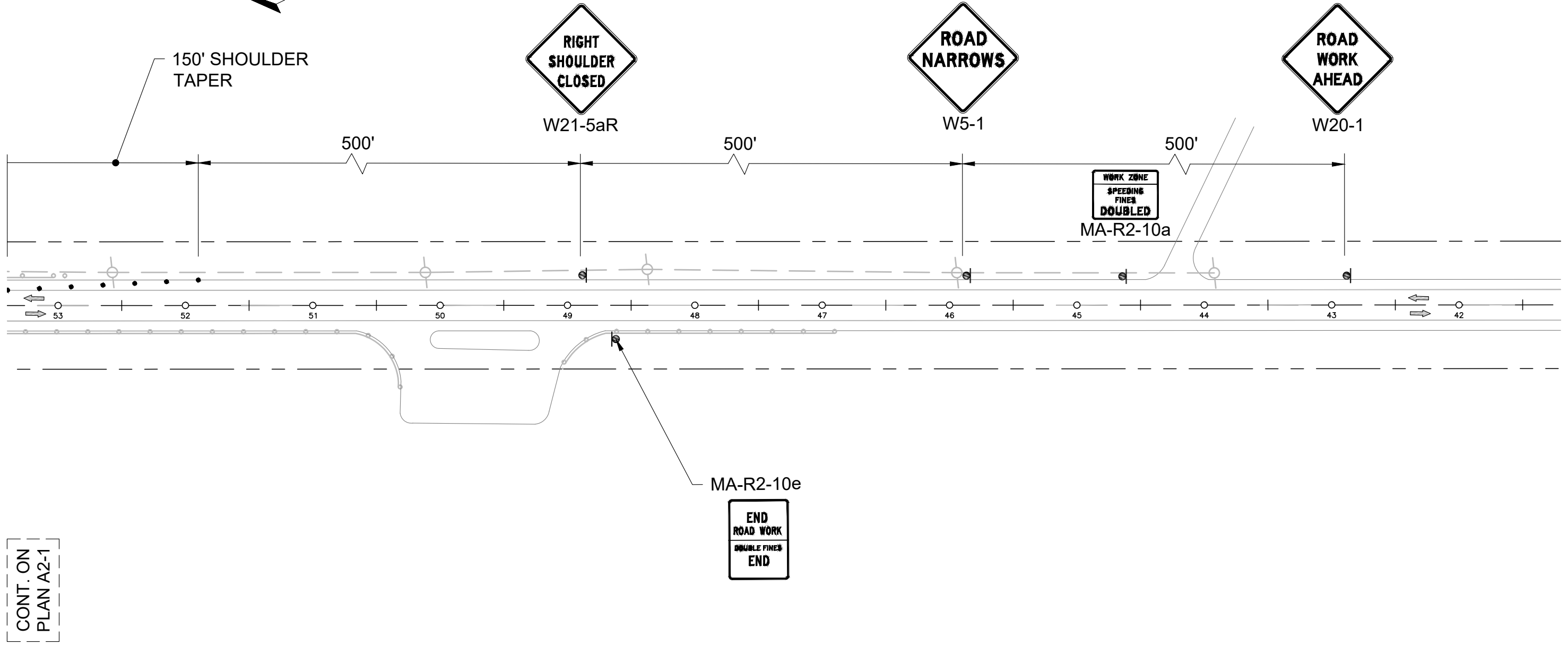
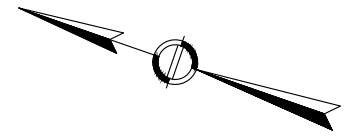
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nationalgrid
170 Data Drive
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02451

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Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A2-1
REV. DATE: 05/15/2025 SHEET NO.: 20 of 81

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BALDWINVILLE STATE ROAD (ROUTE 202)



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #2
MASSACHUSETTS ROUTE 202
WINCHENDON

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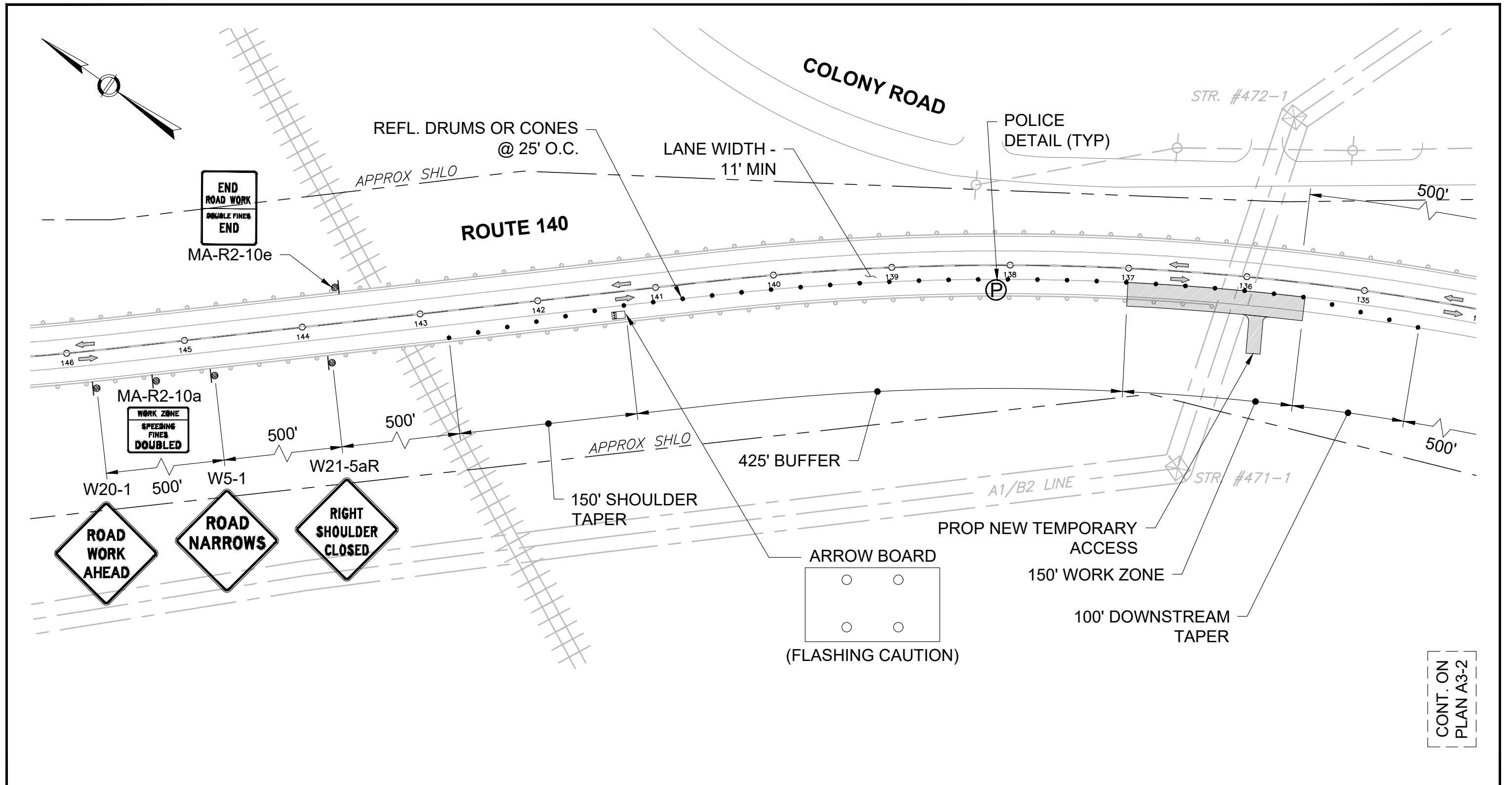
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BSC GROUP 
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Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A2-2
REV. DATE: 05/15/2025 SHEET NO.: 21 of 81

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CONT. ON
PLAN A3-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #3
MASSACHUSETTS ROUTE 140
GARDNER

PREPARED FOR:

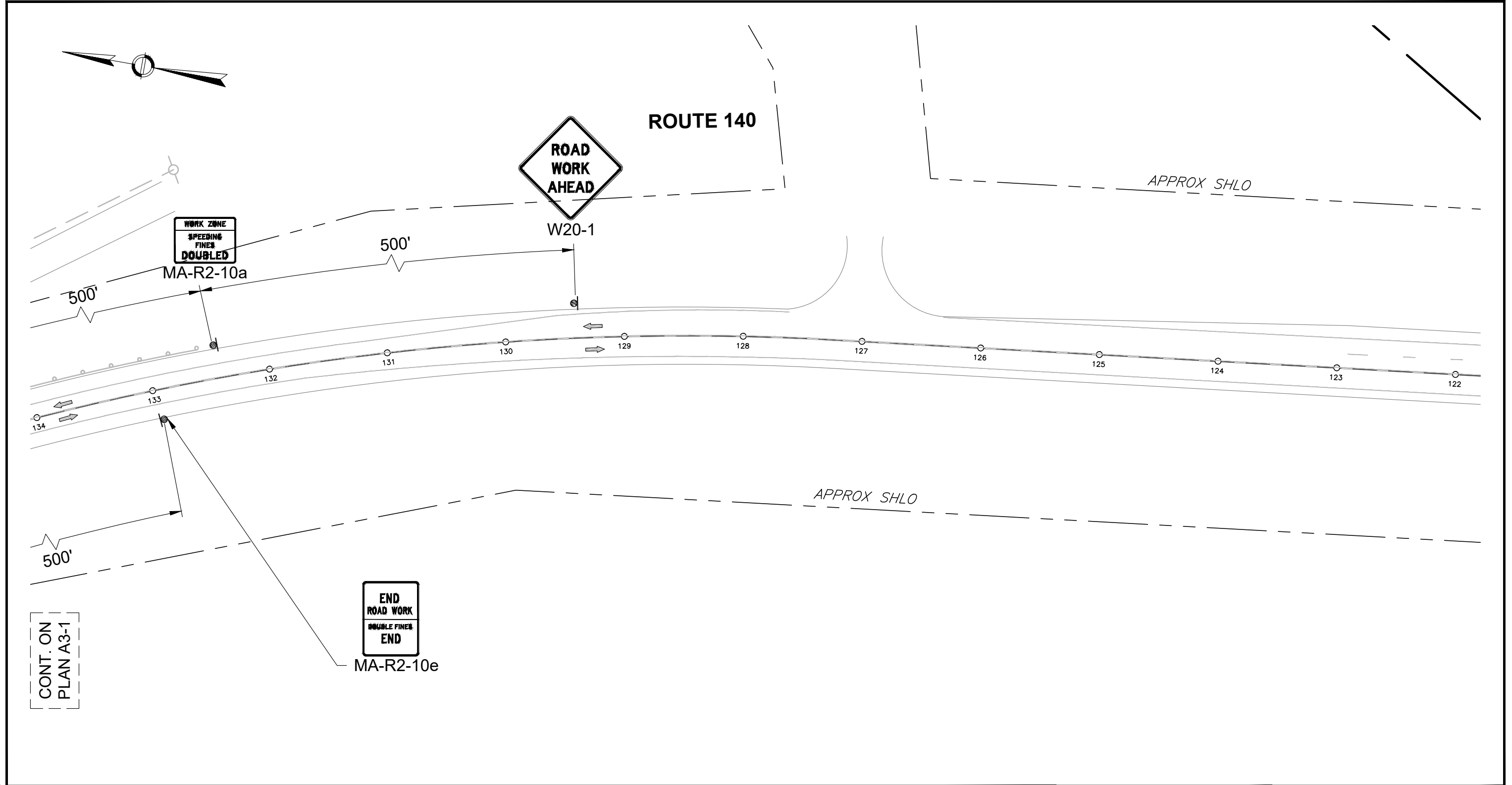
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A3-1
REV. DATE: 05/15/2025 SHEET NO.: 22 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A3.dwg
Plotted on: Thursday, May 15, 2025 - 9:08am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

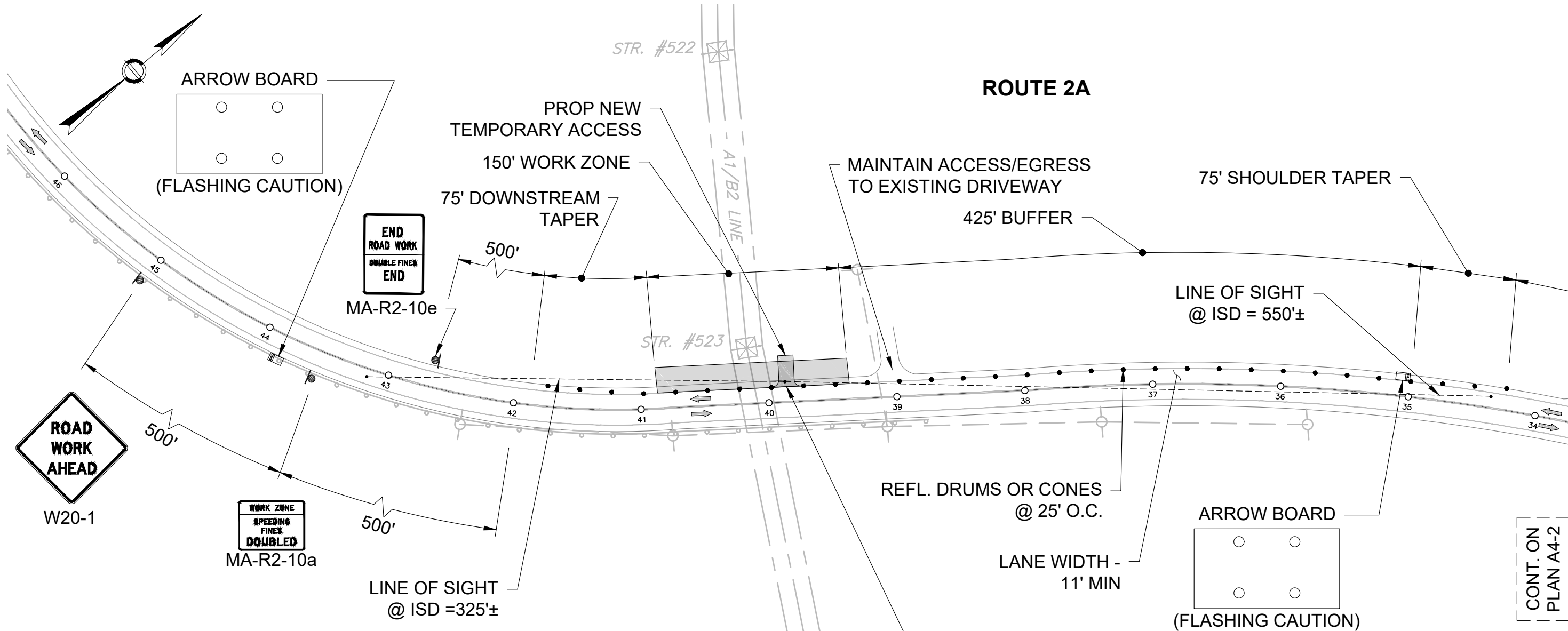
HIGHWAY ACCESS #3
MASSACHUSETTS ROUTE 140
GARDNER

PREPARED FOR:
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:
BSC GROUP 
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A3-2
REV. DATE: 05/15/2025 SHEET NO.: 23 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A4.dwg
 Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



SIGHT DISTANCE

	(MPH) SPEED	INTERSECTION		
		STOPPING DESIGN	DESIGN	ACTUAL
NORTHBOUND APPROACH	40	305	445	325±
SOUTHBOUND APPROACH	40	305	385	550±

REF: AASHTO GREEN BOOK, 7TH EDITION, 2018
 TABLE 9-7 DESIGN INTERSECTION SIGHT DISTANCE - CASE B1, LEFT TURN FROM STOP
 TABLE 9-9 DESIGN INTERSECTION SIGHT DISTANCE - CASE B2, RIGHT TURN FROM STOP

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #4
ROUTE 2A
WESTMINSTER

PREPARED FOR:

nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

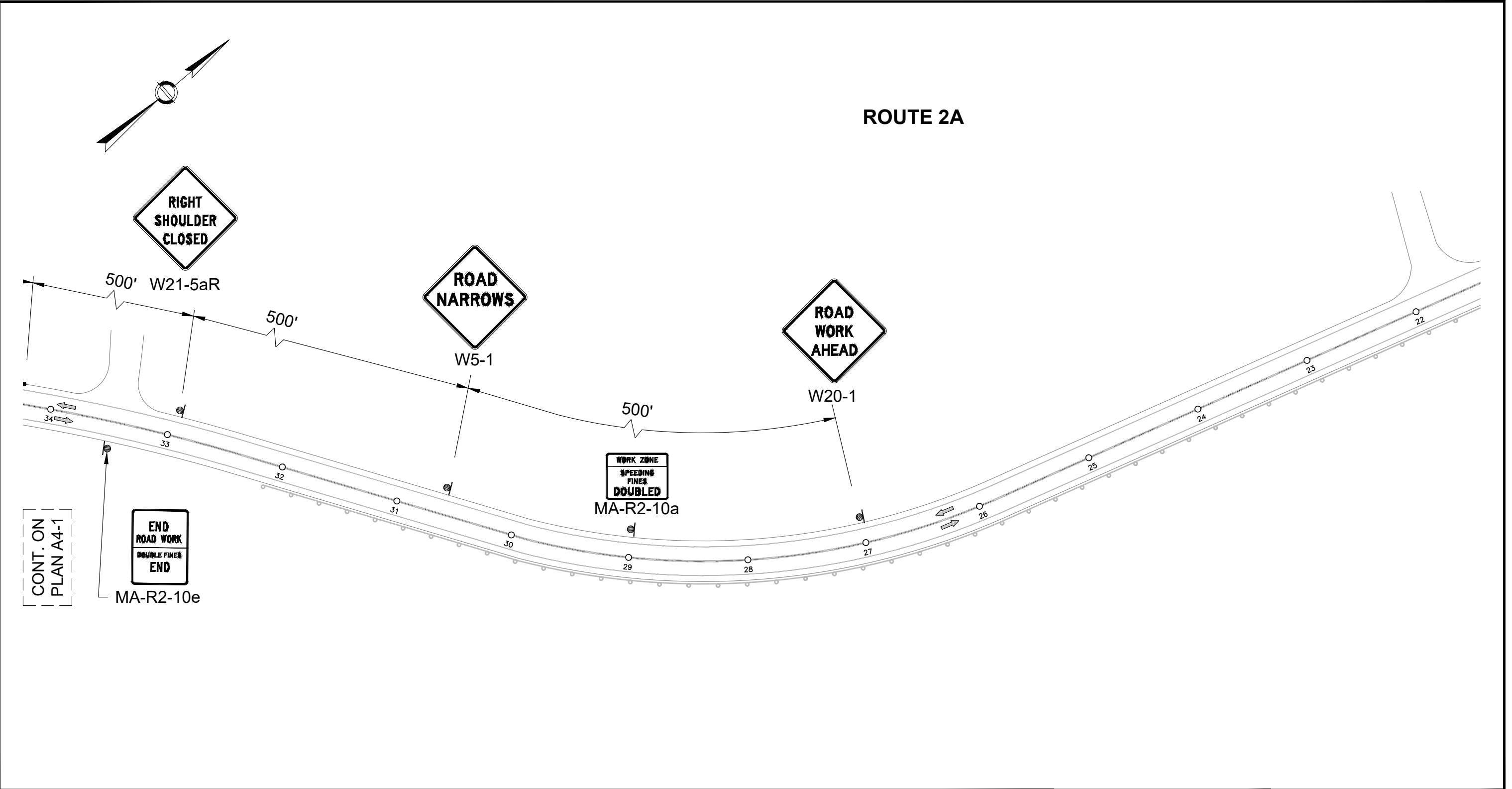
PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A4-1
 REV. DATE: 05/15/2025 SHEET NO.: 24 of 81

CONT. ON
 PLAN A4-2

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A4.dwg
 Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #4
ROUTE 2A
WESTMINSTER

PREPARED FOR:

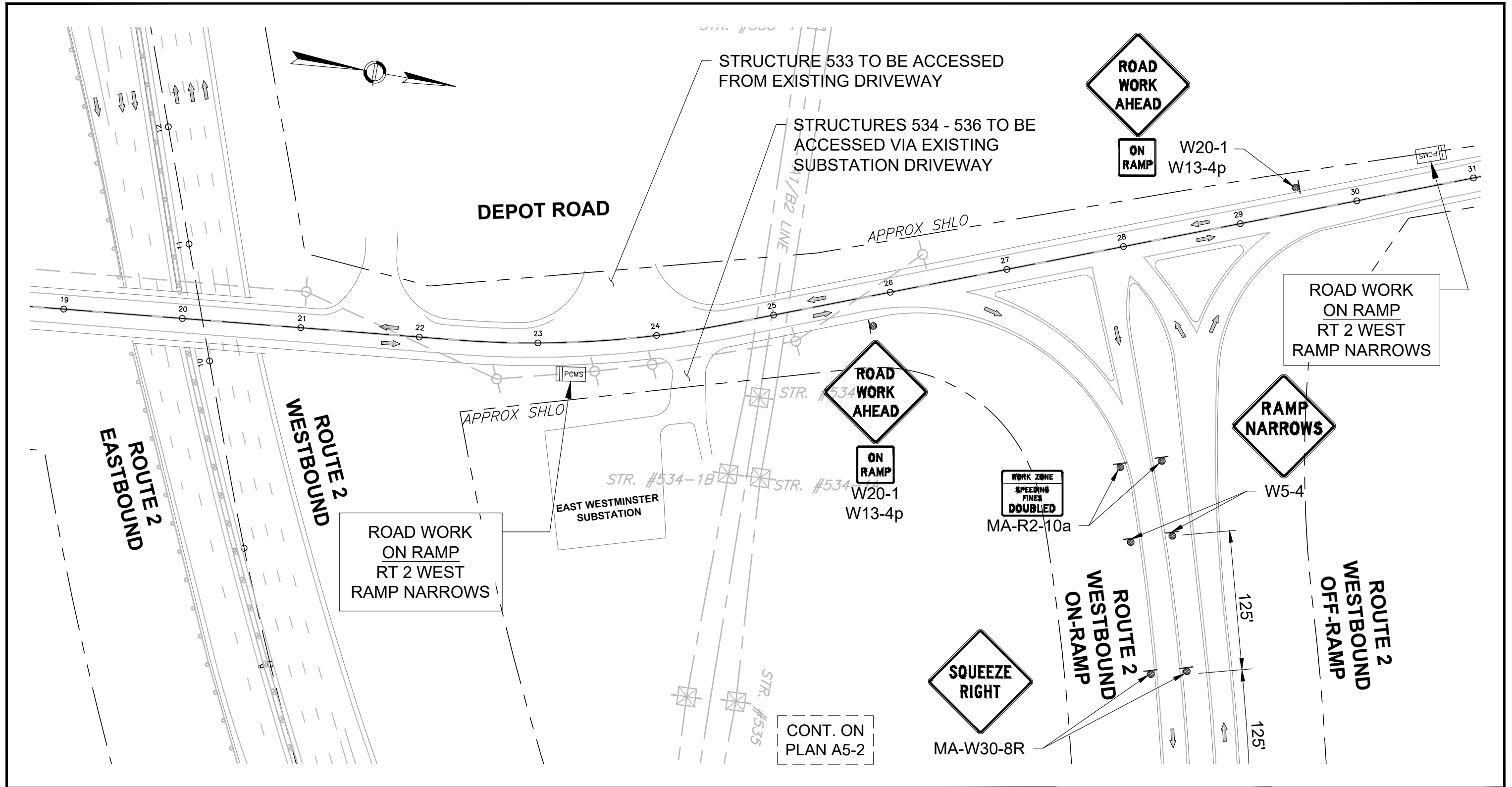
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP 
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66	SCALE: 1" = 80'
ISSUE DATE: 01/16/2024	PLAN NO.: A4-2
REV. DATE: 05/15/2025	SHEET NO.: 25 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A5.dwg
 Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
HIGHWAY ACCESS #5
ROUTE 2 WESTBOUND EXIT 94 ON-RAMP
WESTMINSTER

PREPARED FOR:

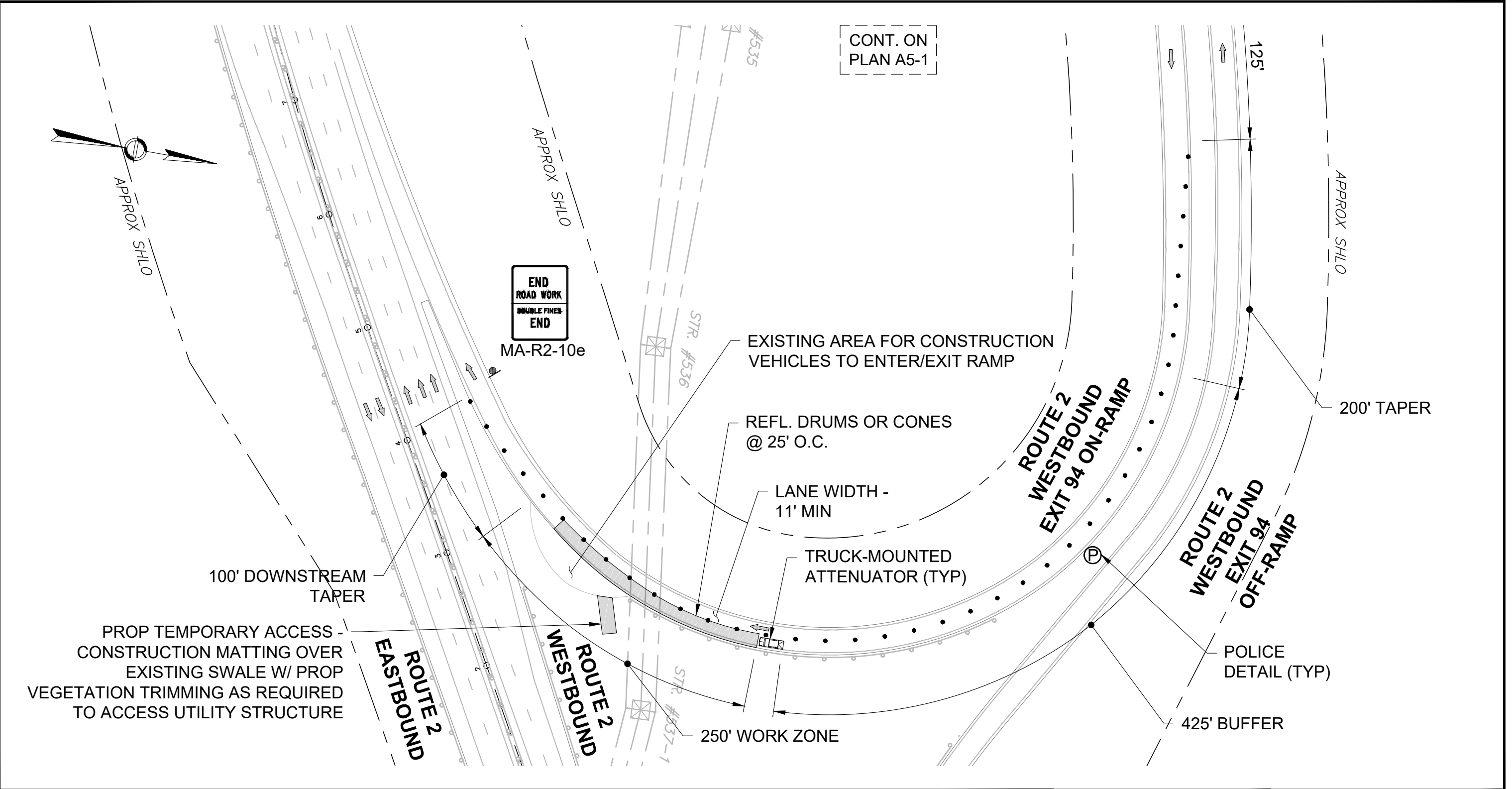
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A5-1
 REV. DATE: 05/15/2025 SHEET NO.: 26 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A5.dwg
 Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



CONT. ON
PLAN A5-1

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

**HIGHWAY ACCESS #5
ROUTE 2 WESTBOUND EXIT 94 ON-RAMP
WESTMINSTER**

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

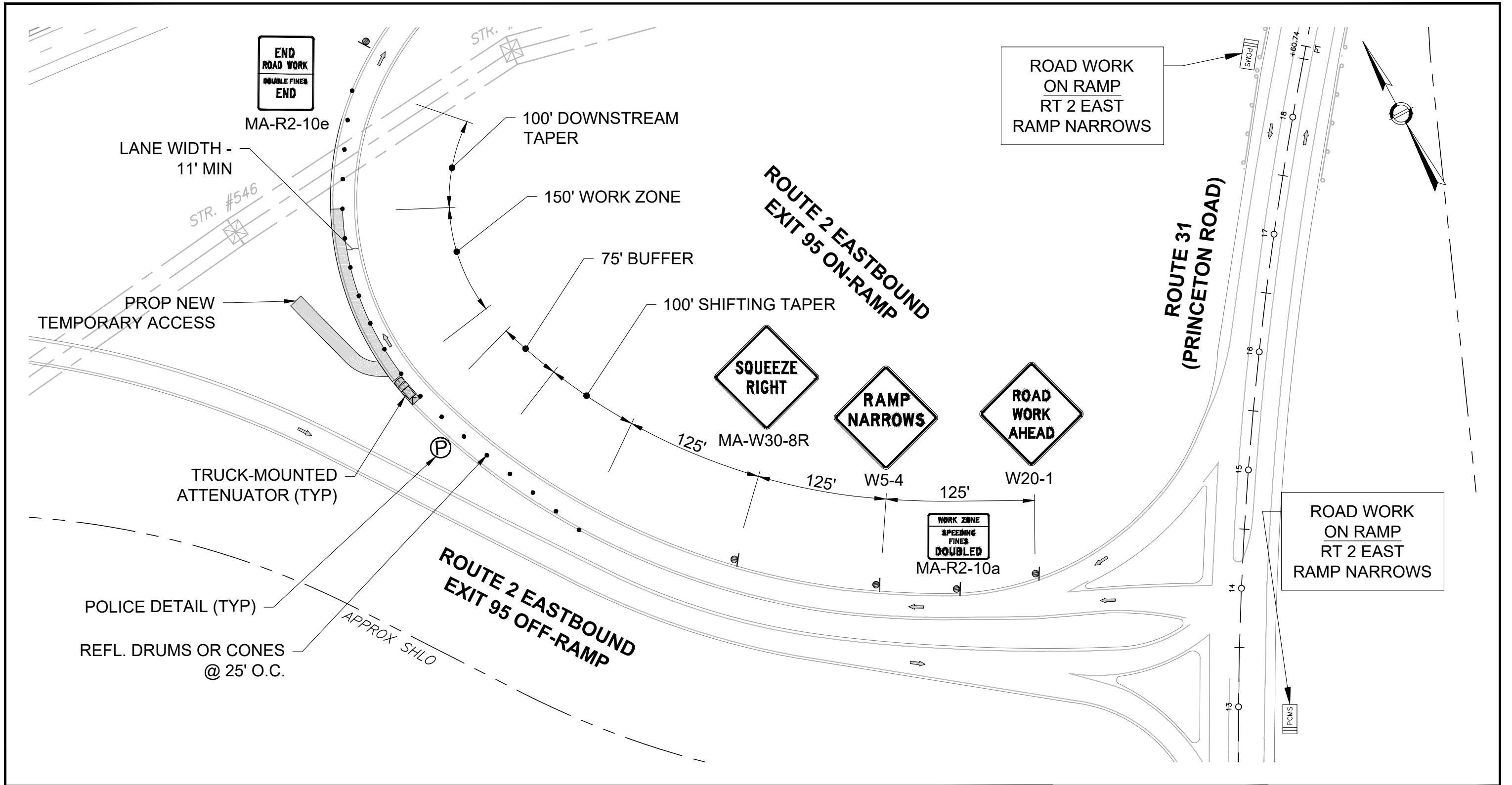
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A5-2
 REV. DATE: 05/15/2025 SHEET NO.: 27 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A6.dwg
Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #6
ROUTE 2 EXIT 95 EASTBOUND ON-RAMP
FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

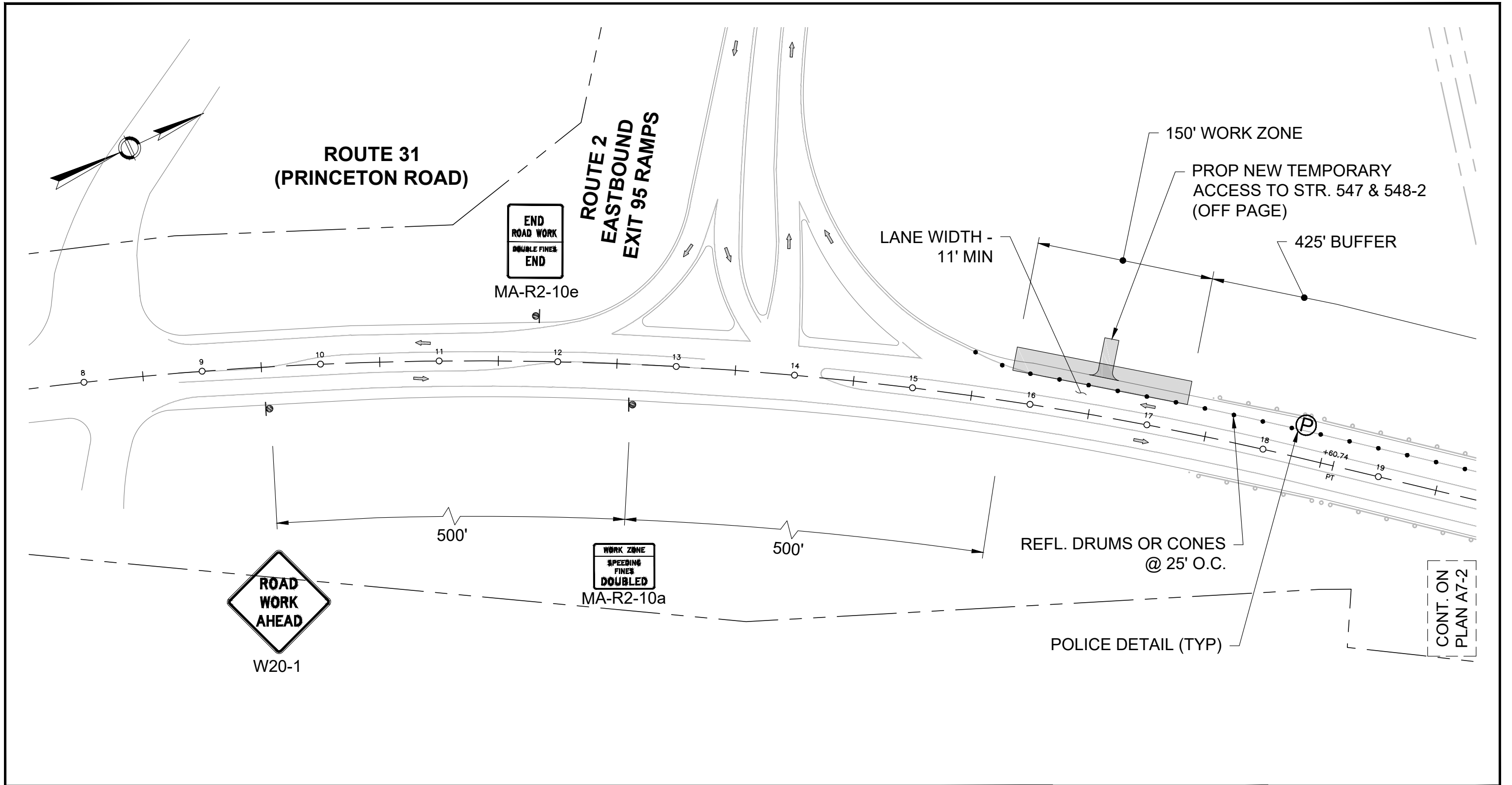
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A6-1
REV. DATE: 05/15/2025 SHEET NO.: 28 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A7.dwg
Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #7
PRINCETON ROAD (ROUTE 31)
FITCHBURG

PREPARED FOR:

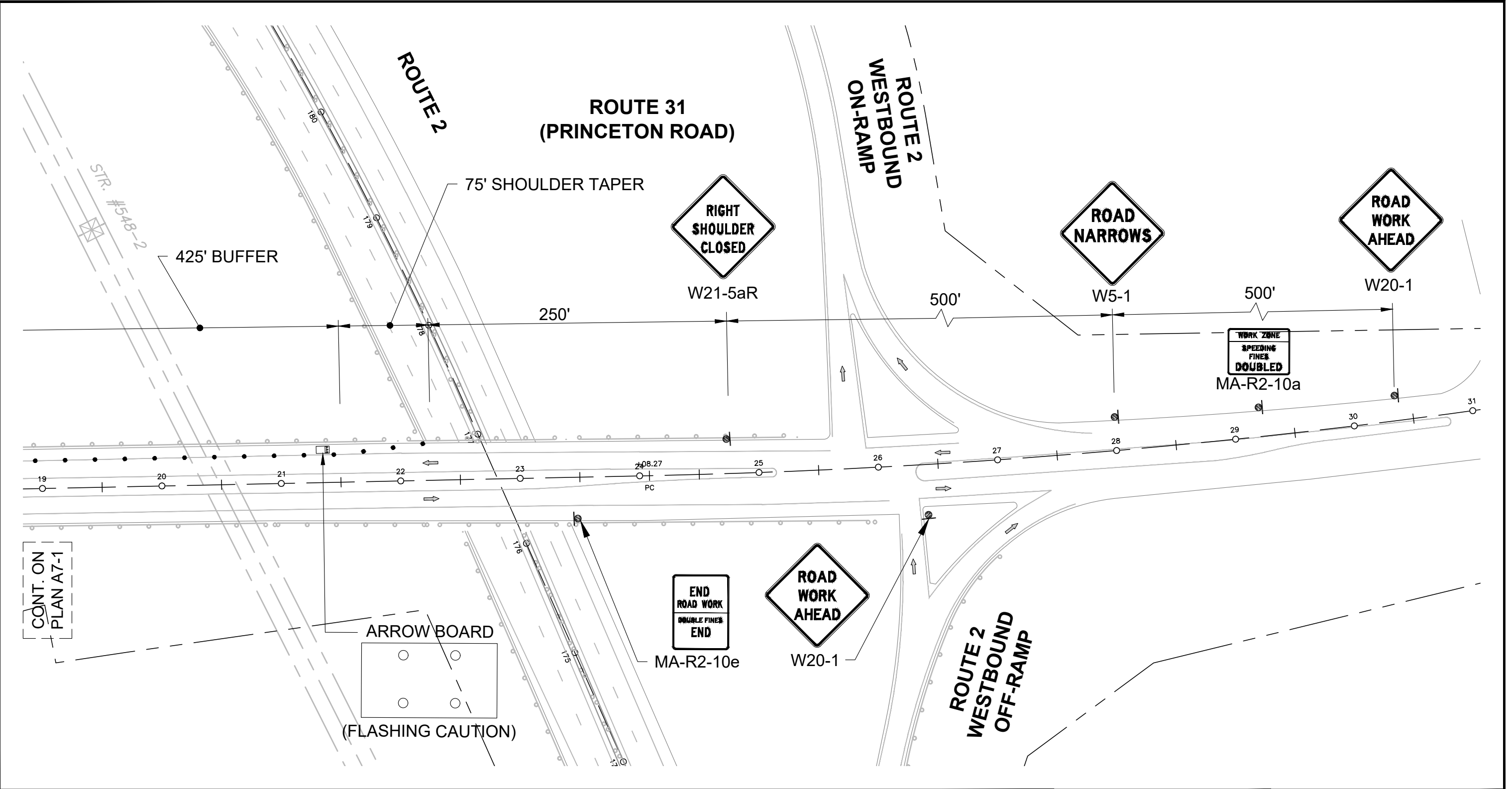
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A7-1
REV. DATE: 05/15/2025 SHEET NO.: 29 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A7.dwg
 Plotted on: Thursday, May 15, 2025 - 9:09am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

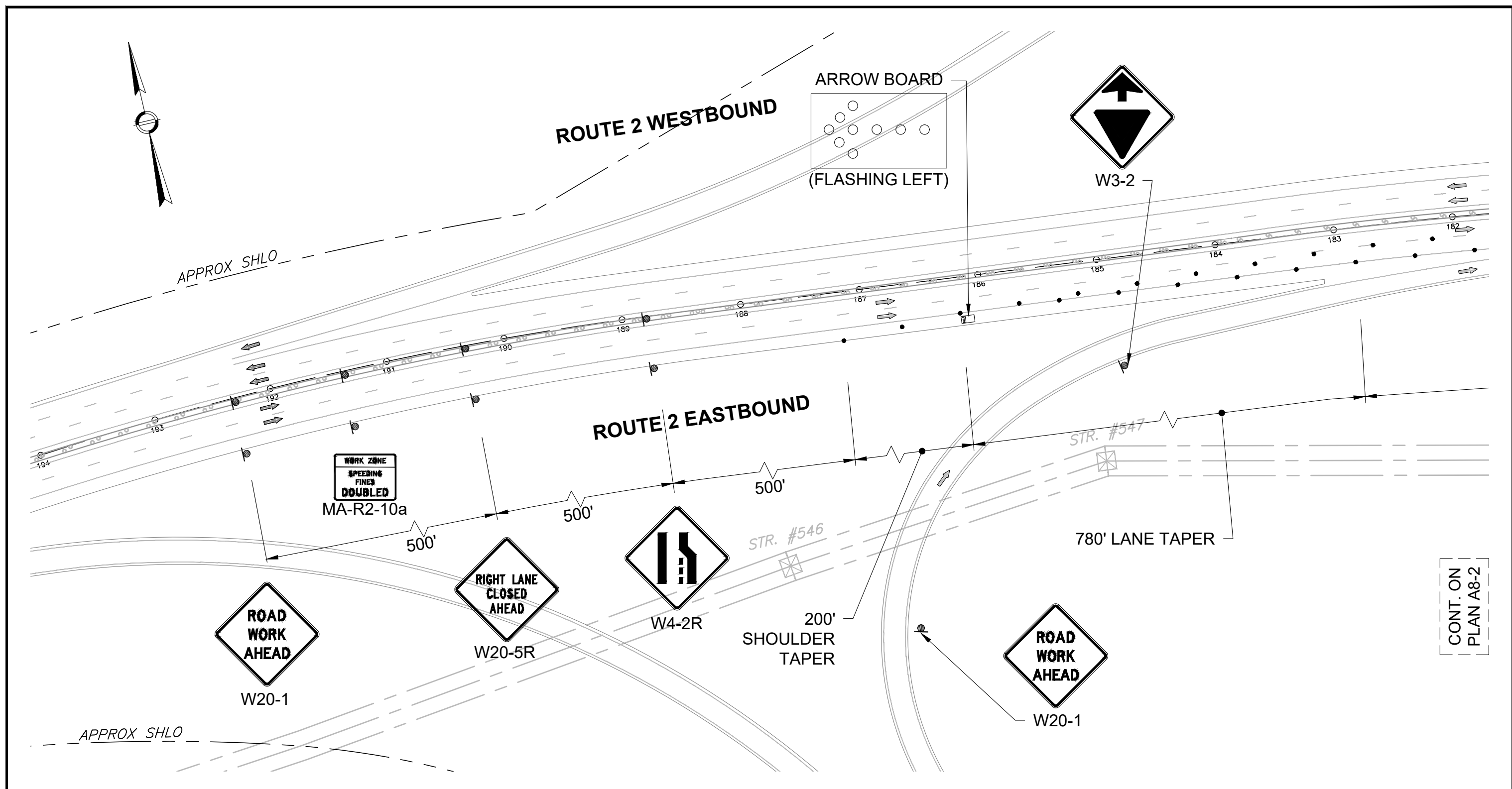
HIGHWAY ACCESS #7
PRINCETON ROAD (ROUTE 31)
FITCHBURG

PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A7-2
 REV. DATE: 05/15/2025 SHEET NO.: 30 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A8.dwg
Plotted on: Thursday, May 15, 2025 - 9:10am by KSP0FFORD



CONT. ON
PLAN A8-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #8
ROUTE 2 EASTBOUND
FITCHBURG

PREPARED FOR:

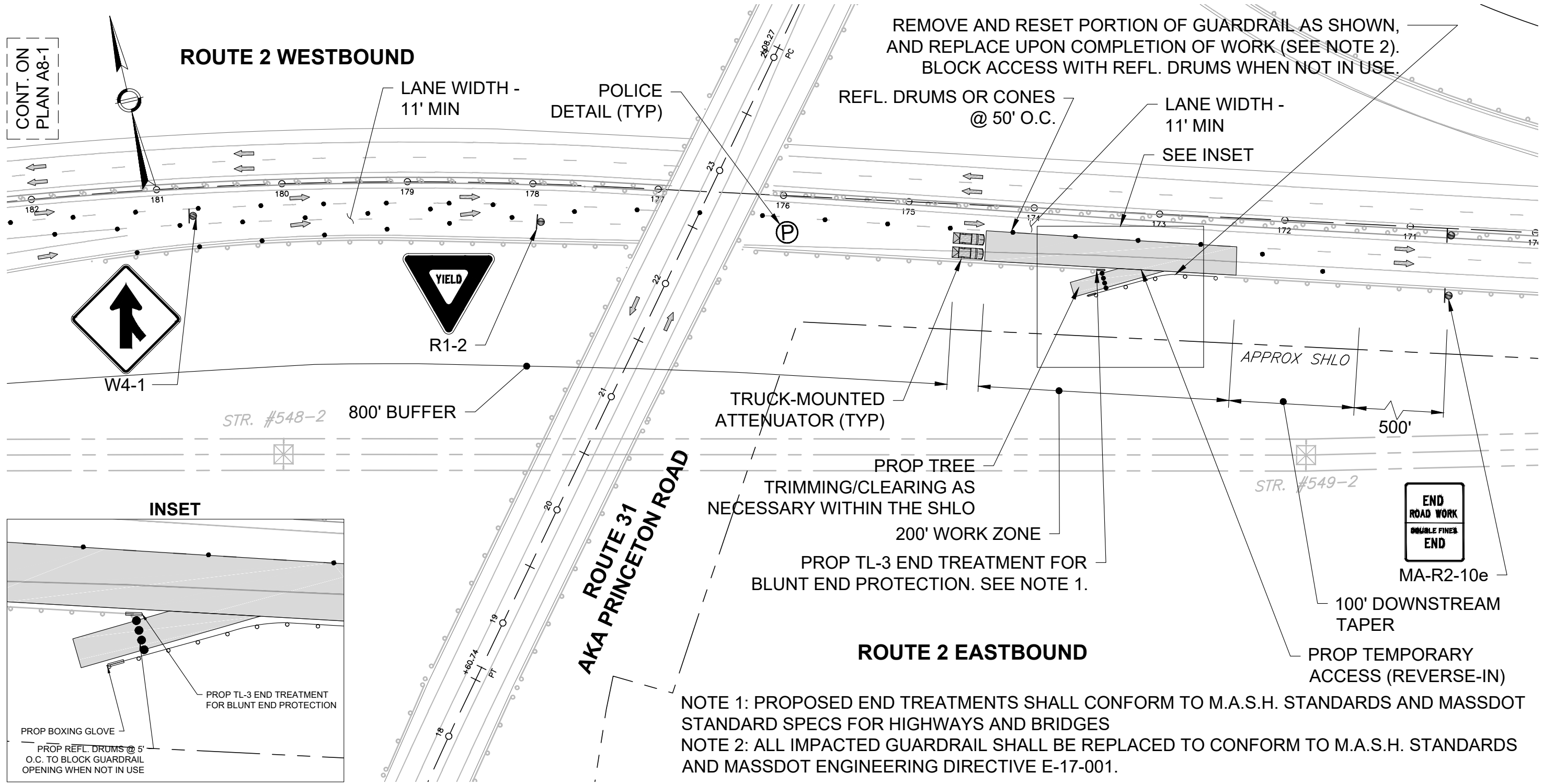
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A8-1
REV. DATE: 05/15/2025 SHEET NO.: 31 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A8.dwg
 Plotted on: Thursday, May 15, 2025 - 9:10am by KSP0FFORD



NOTE 1: PROPOSED END TREATMENTS SHALL CONFORM TO M.A.S.H. STANDARDS AND MASSDOT STANDARD SPECS FOR HIGHWAYS AND BRIDGES
 NOTE 2: ALL IMPACTED GUARDRAIL SHALL BE REPLACED TO CONFORM TO M.A.S.H. STANDARDS AND MASSDOT ENGINEERING DIRECTIVE E-17-001.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #8
ROUTE 2 EASTBOUND
FITCHBURG

PREPARED FOR:

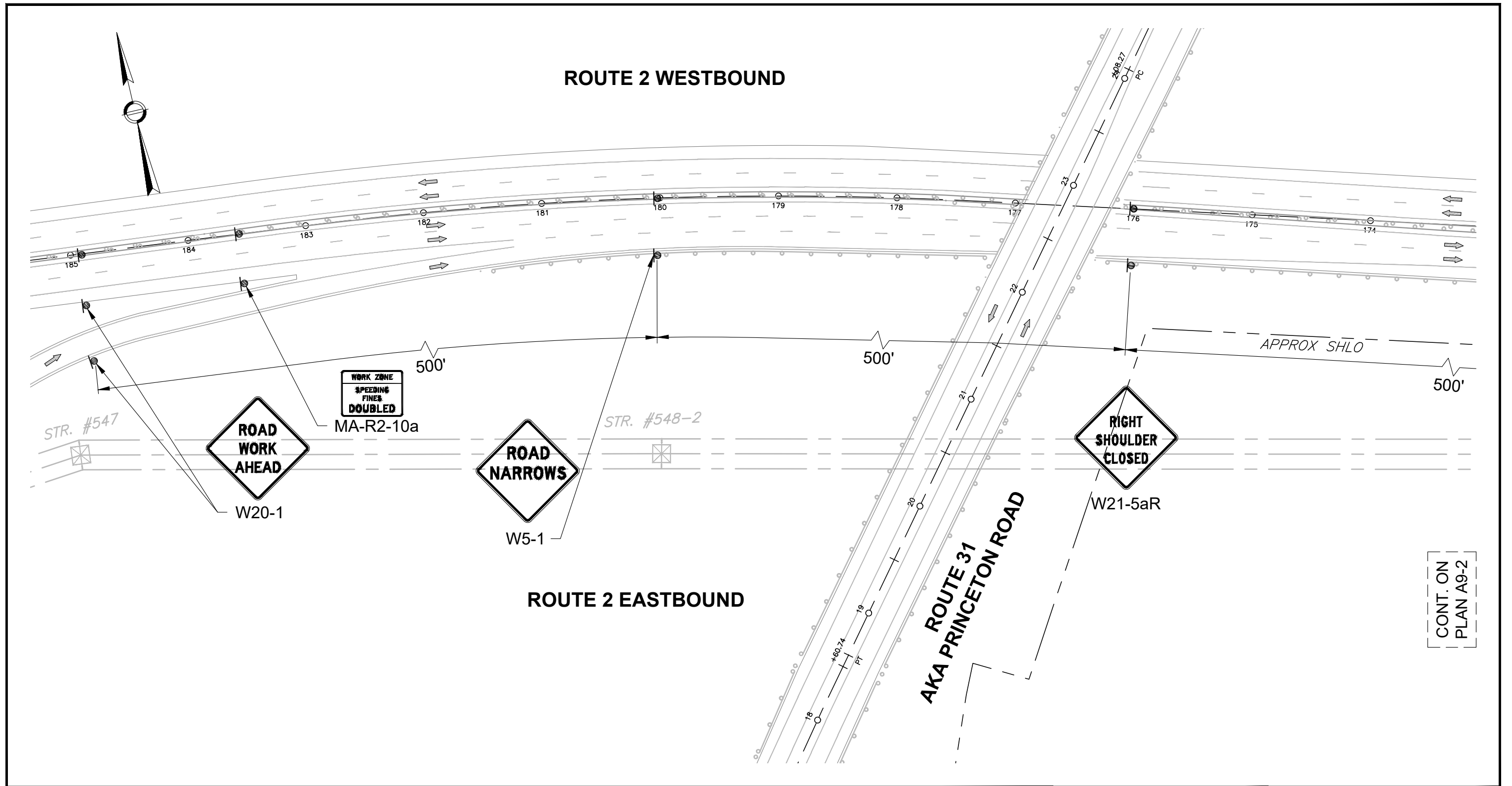
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A8-2
 REV. DATE: 05/15/2025 SHEET NO.: 32 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A9.dwg
Plotted on: Thursday, May 15, 2025 - 9:10am by KSPOFFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

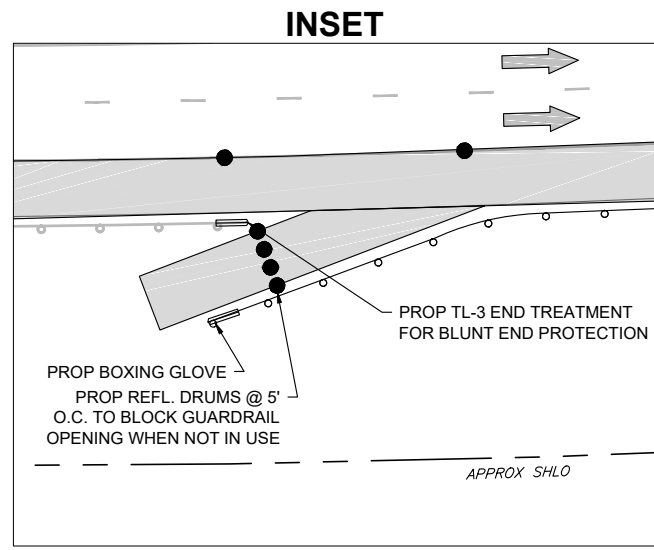
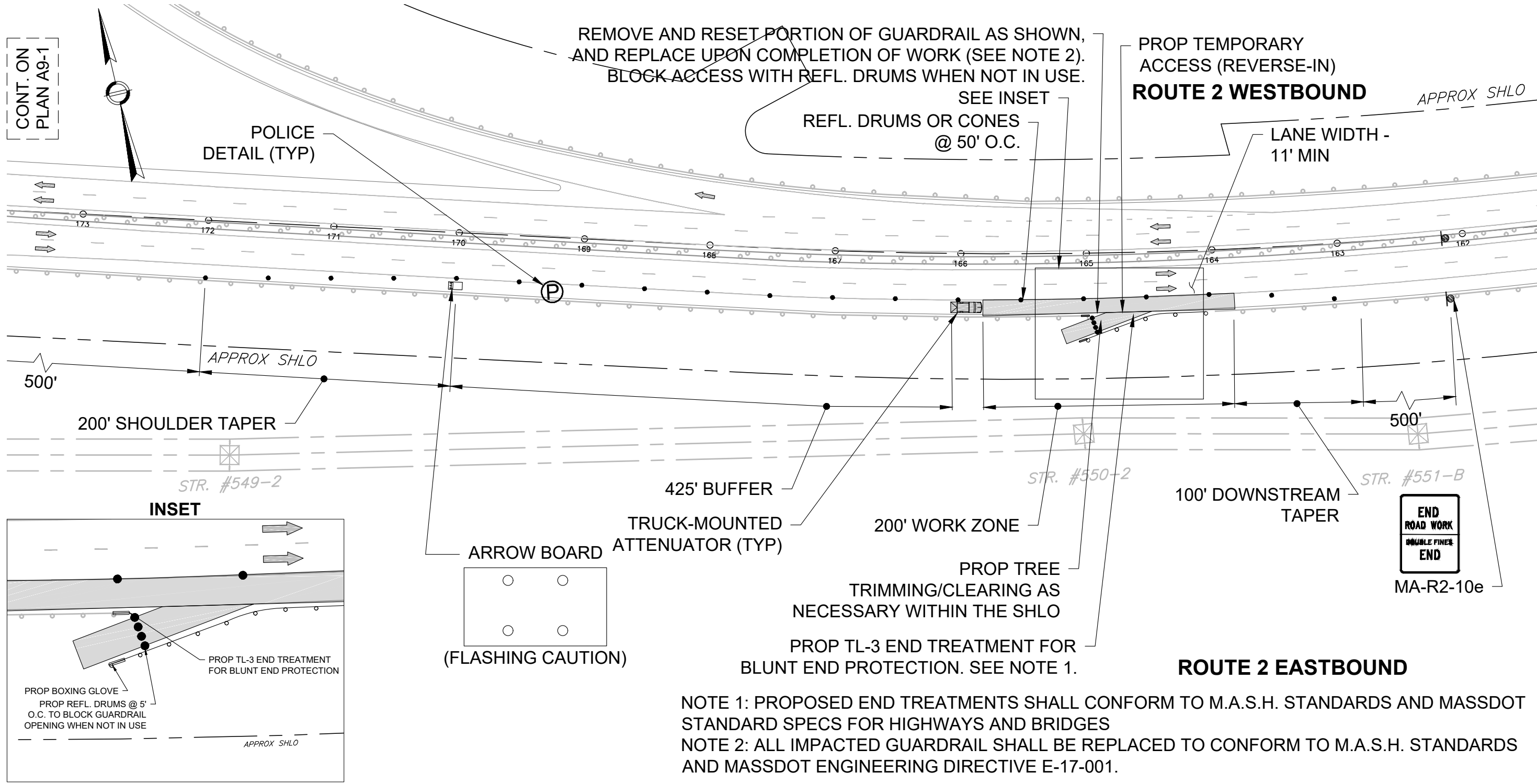
HIGHWAY ACCESS #9
ROUTE 2 EASTBOUND
FITCHBURG

PREPARED FOR:
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:
BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A9-1
REV. DATE: 05/15/2025 SHEET NO.: 33 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A9.dwg
 Plotted on: Thursday, May 15, 2025 - 9:10am by KSP0FF0RD



NOTE 1: PROPOSED END TREATMENTS SHALL CONFORM TO M.A.S.H. STANDARDS AND MASSDOT STANDARD SPECS FOR HIGHWAYS AND BRIDGES
 NOTE 2: ALL IMPACTED GUARDRAIL SHALL BE REPLACED TO CONFORM TO M.A.S.H. STANDARDS AND MASSDOT ENGINEERING DIRECTIVE E-17-001.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

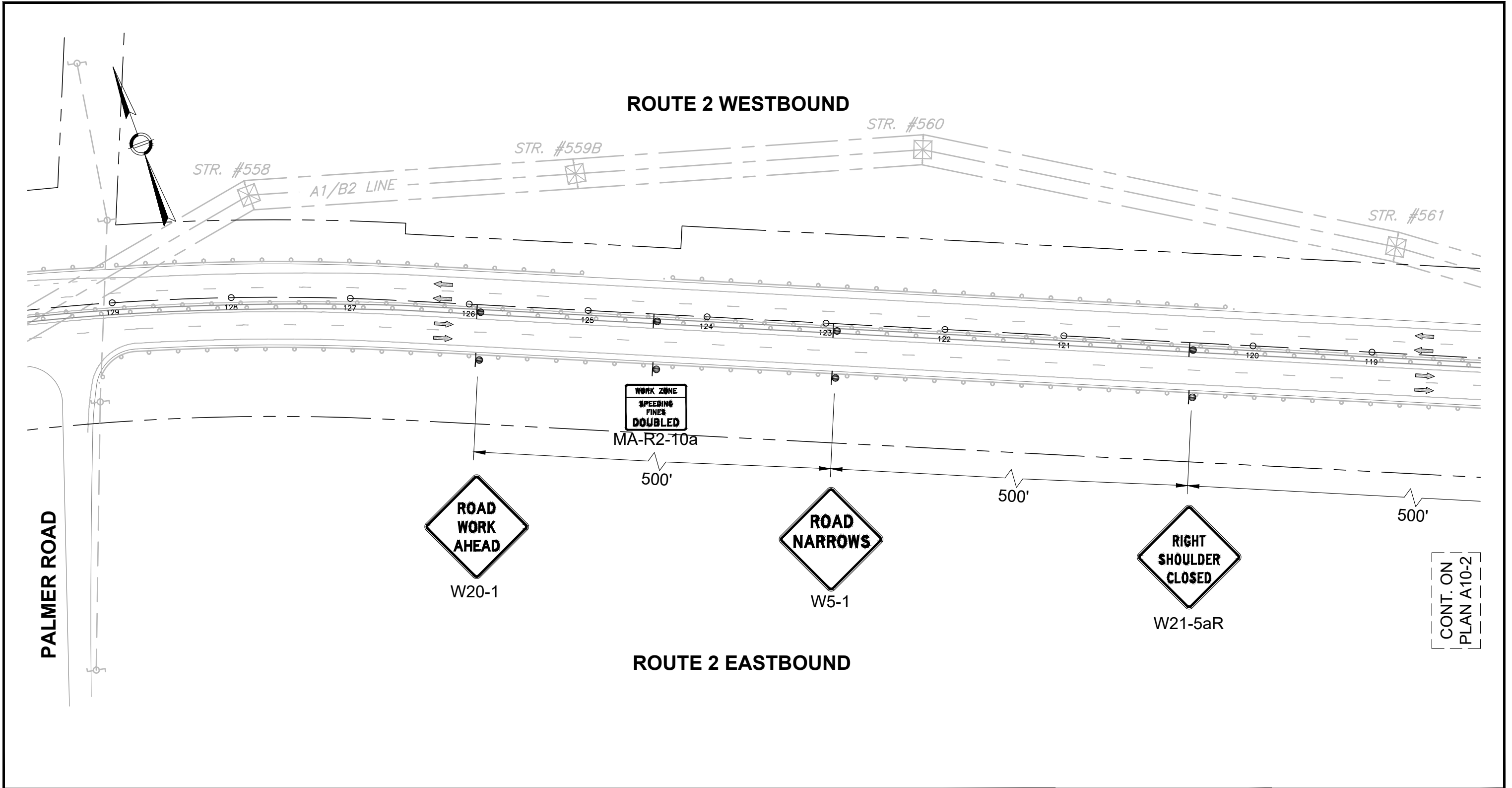
HIGHWAY ACCESS #9
ROUTE 2 EASTBOUND
FITCHBURG

PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A9-2
 REV. DATE: 05/15/2025 SHEET NO.: 34 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A10.dwg
Plotted on: Thursday, May 15, 2025 - 9:10am by KSPOFFORD



CONT. ON
PLAN A10-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #10
ROUTE 2 EASTBOUND
FITCHBURG

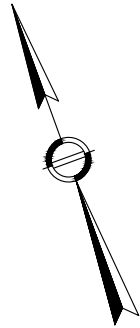
PREPARED FOR:

nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP 
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A10-1
REV. DATE: 05/15/2025 SHEET NO.: 35 of 81



ROUTE 2 WESTBOUND

STR. #561

REFL. DRUMS OR CONES @ 50' O.C.

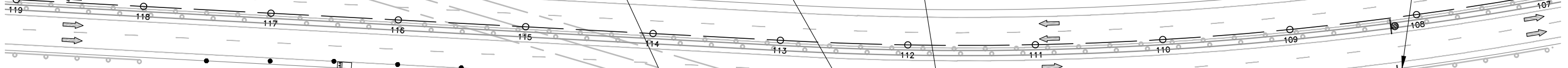
LANE WIDTH - 11' MIN

APPROX SHLO



MA-R2-10e

POLICE DETAIL (TYP)



APPROX SHLO

500'

100' SHOULDER TAPER

425' BUFFER

TRUCK-MOUNTED ATTENUATOR (TYP)

200' WORK ZONE

500'

100' DOWNSTREAM TAPER

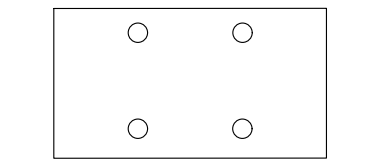
STR. #563

A1/B2 LINE

STR. #564

CONT. ON PLAN A10-1

ARROW BOARD



(FLASHING CAUTION)

ROUTE 2 EASTBOUND

TEMPORARY ACCESS VIA EXISTING GRAVEL PULL-OFF AREA

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #10
ROUTE 2 EASTBOUND
FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

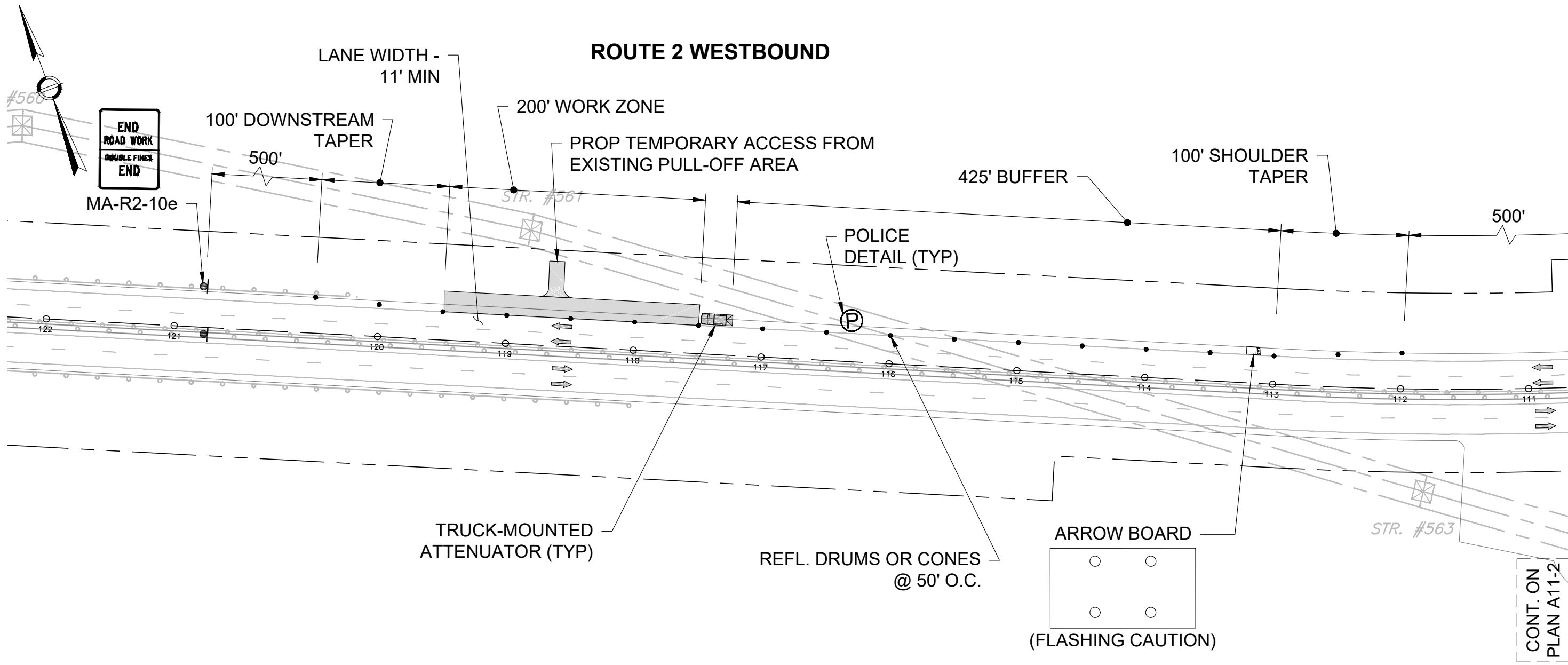
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'

ISSUE DATE: 01/16/2024 PLAN NO.: A10-2

REV. DATE: 05/15/2025 SHEET NO.: 36 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A11.dwg
Plotted on: Thursday, May 15, 2025 - 9:11am by KSP0FF0RD



NOTE: ACCESS TO BE USED FOR INGRESS ONLY. NO EGRESS PROPOSED ONTO ROUTE 2 WESTBOUND FROM THIS DRIVEWAY.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #11
ROUTE 2 WESTBOUND
FITCHBURG

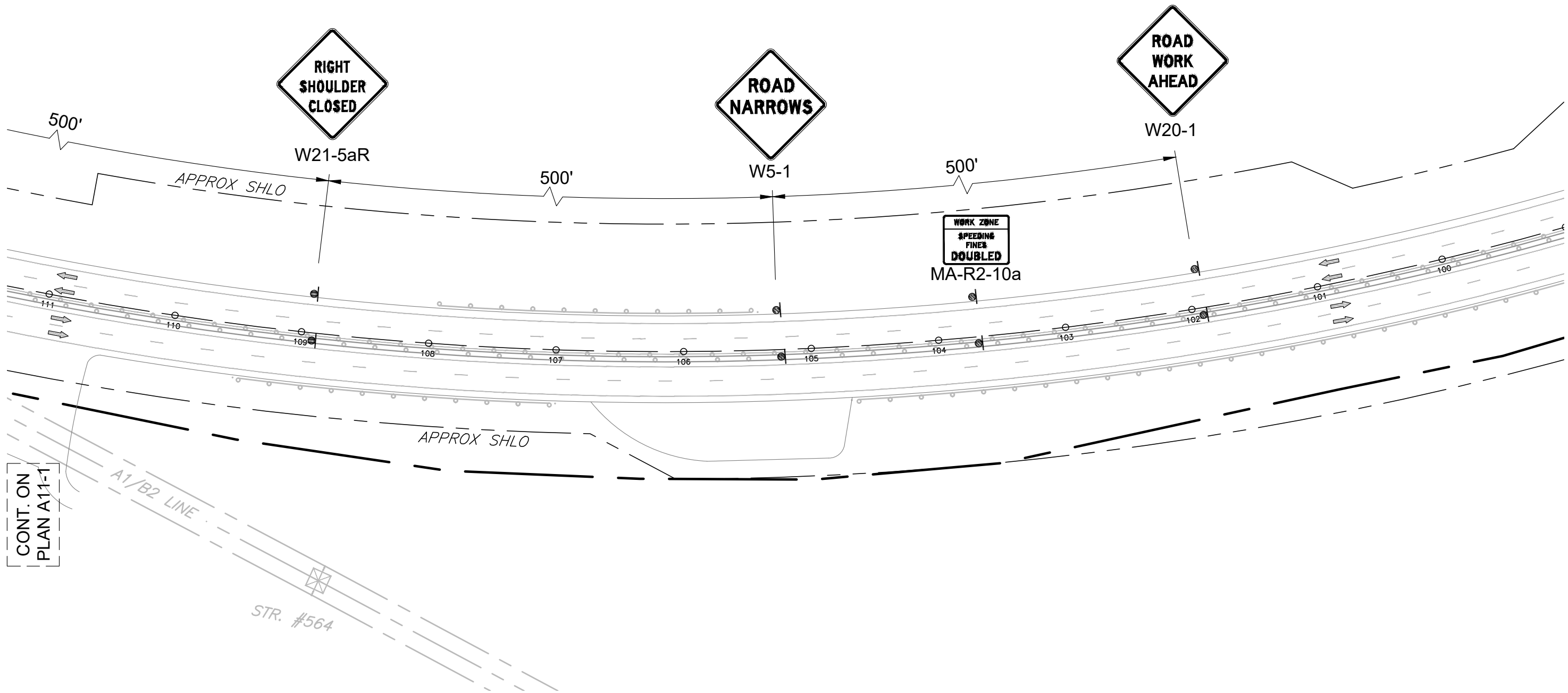
PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A11-1
 REV. DATE: 05/15/2025 SHEET NO.: 37 of 81

CONT. ON
PLAN A11-2

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A11.dwg
Plotted on: Thursday, May 15, 2025 - 9:11am by KSP0FF0RD



CONT. ON
PLAN A11-1

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

**HIGHWAY ACCESS #11
ROUTE 2 WESTBOUND
FITCHBURG**

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

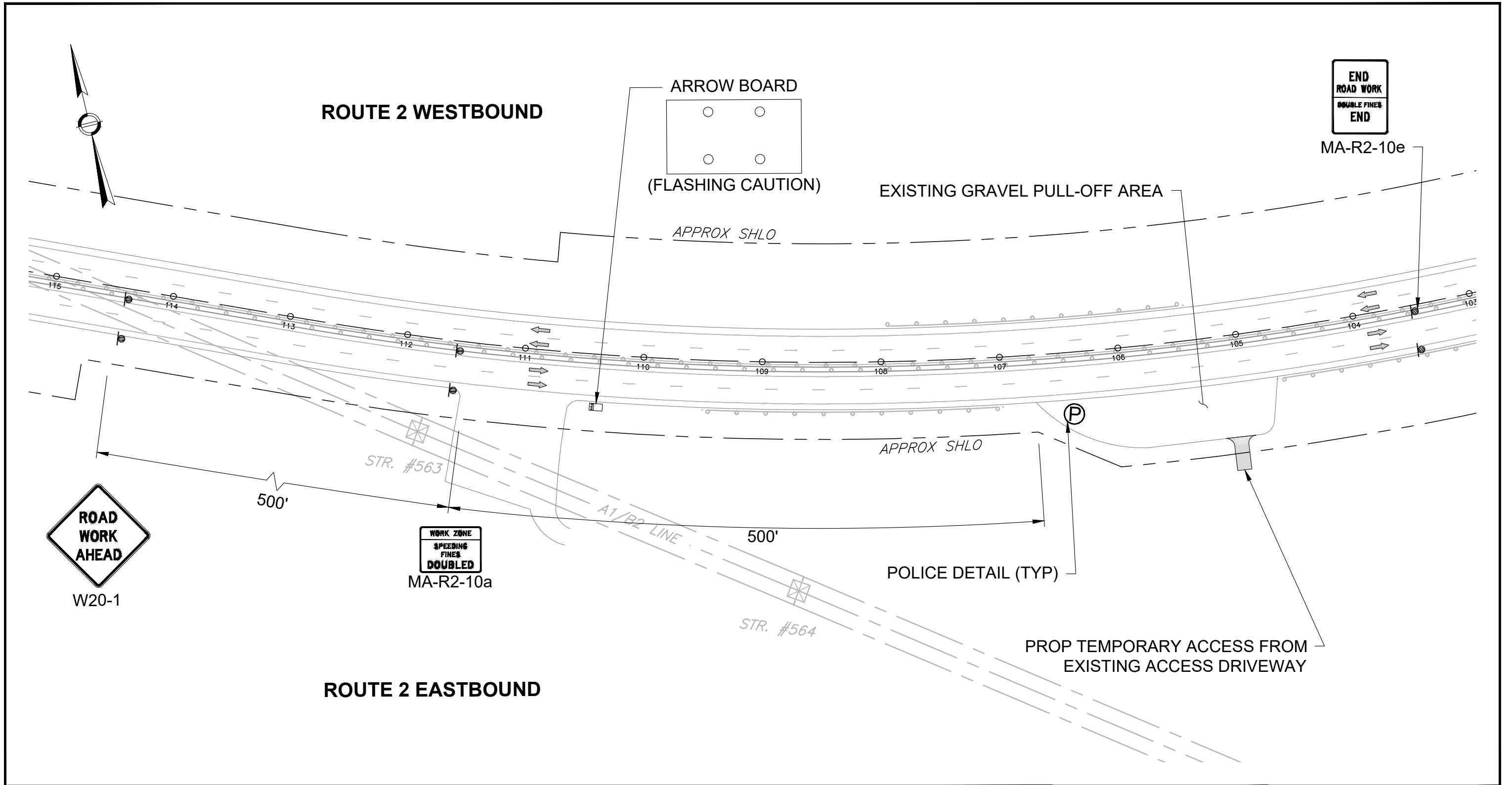
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A11-2
REV. DATE: 05/15/2025 SHEET NO.: 38 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A12.dwg
 Plotted on: Thursday, May 15, 2025 - 9:11am by KSPFFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #12
ROUTE 2 EASTBOUND
FITCHBURG

PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: A12-1
 REV. DATE: 05/15/2025 SHEET NO.: 39 of 81



CENTRAL STREET (ROUTE 12)



RESEARCH DRIVE

W20-1

MA-R2-10e

500'

PROP NEW TEMPORARY ACCESS

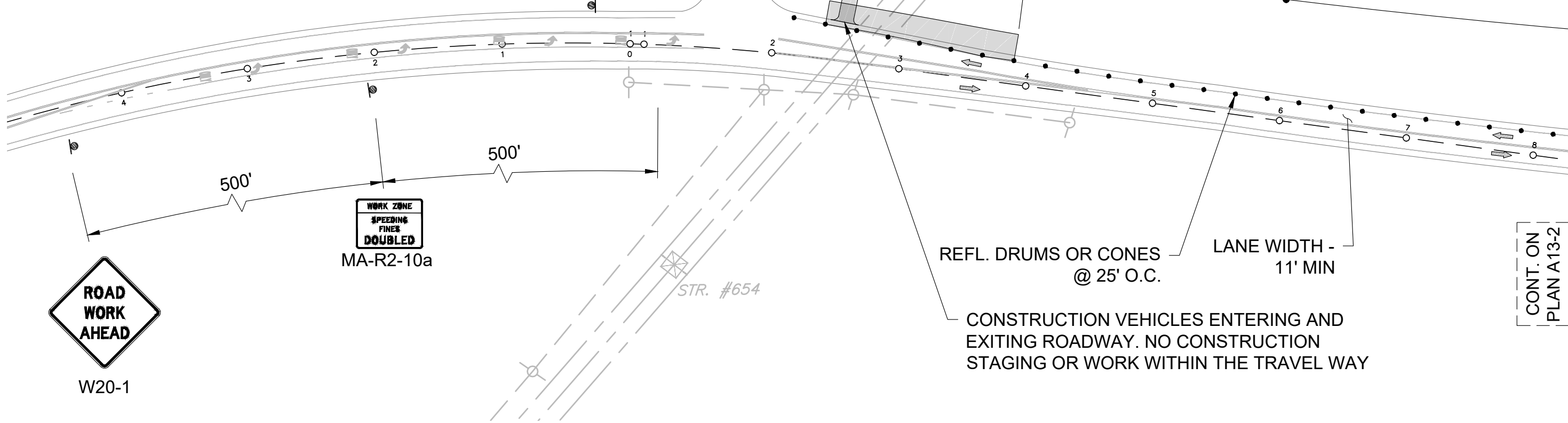
150' WORK ZONE

425' BUFFER

STR. #653

STR. #652

A1/B2 LINE



MA-R2-10a

500'

500'



W20-1

CONT. ON
PLAN A13-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #13
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

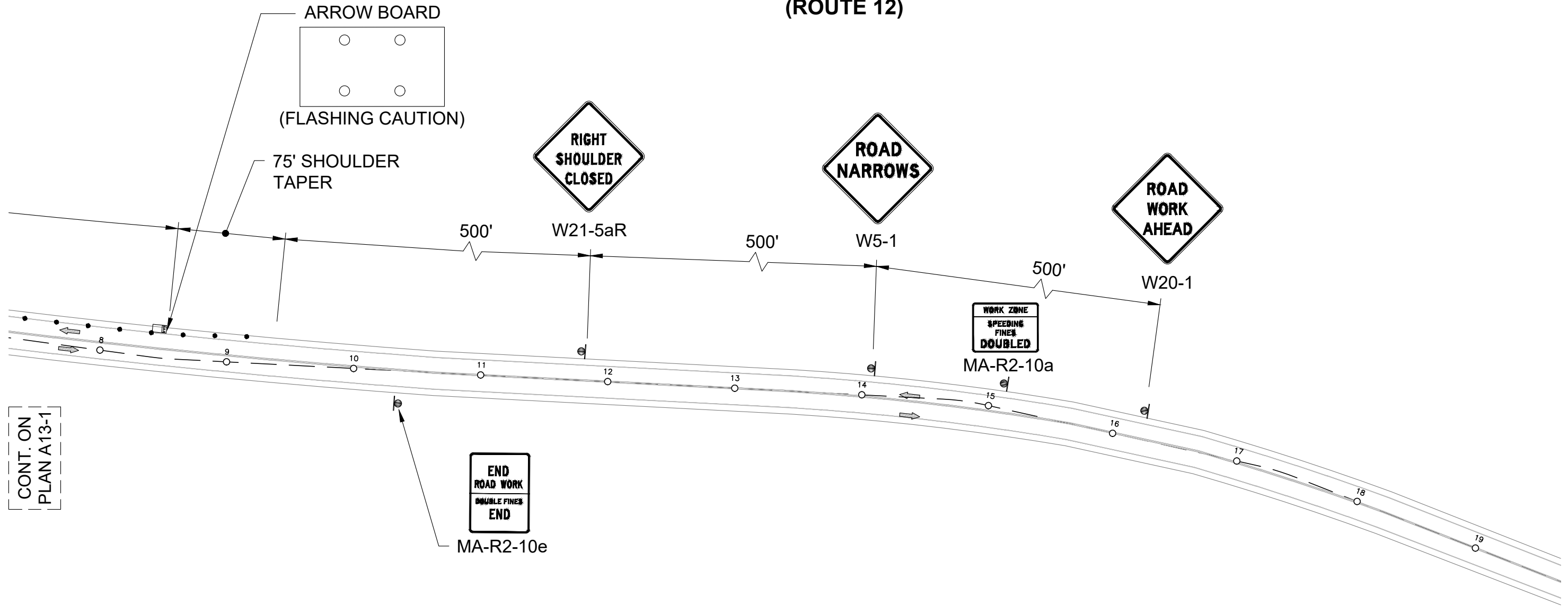
BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A13-1
REV. DATE: 05/15/2025 SHEET NO.: 40 of 81



CENTRAL STREET (ROUTE 12)



CONT. ON
PLAN A13-1

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #13
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

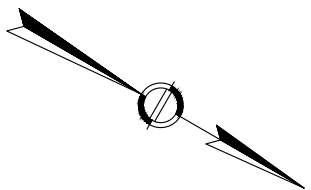
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP 
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

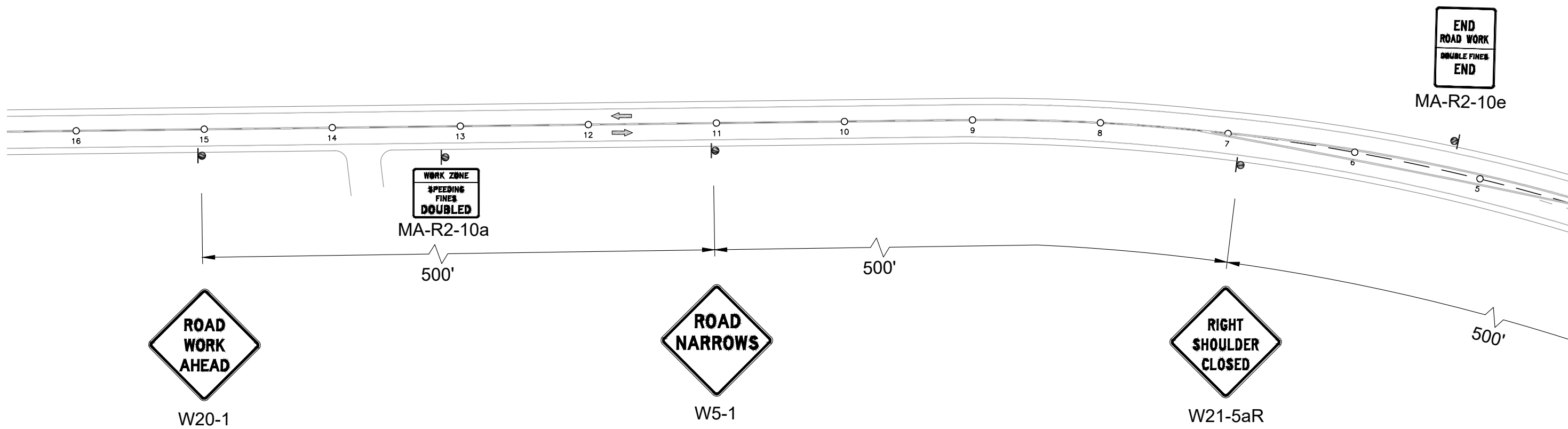
JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A13-2
REV. DATE: 05/15/2025 SHEET NO.: 41 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A13.dwg
 Plotted on: Thursday, May 15, 2025 - 9:11am by KSP0FF0RD



CENTRAL STREET (ROUTE 12)

CONT. ON
PLAN A14-2



Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Access Plans\8962066 - MASSDOT - TMP Access - A14.dwg
Plotted on: Thursday, May 15, 2025 - 9:11am by KSP0FF0RD

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #14
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP 
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A14-1
REV. DATE: 05/15/2025 SHEET NO.: 42 of 81



CONT. ON
PLAN A14-2

CENTRAL STREET (ROUTE 12)

RESEARCH DRIVE



W20-1

LANE WIDTH -
11' MIN

STR. #652

CONSTRUCTION VEHICLES ENTERING AND
EXITING ROADWAY. NO CONSTRUCTION
STAGING OR WORK WITHIN THE TRAVEL WAY

REFL. DRUMS OR CONES
@ 25' O.C.



MA-R2-10a

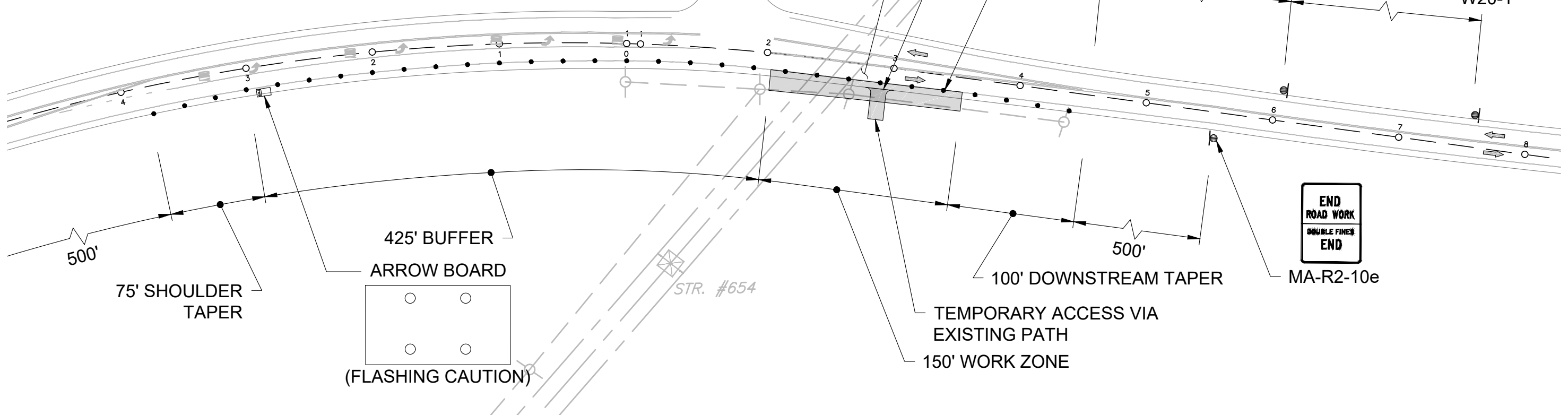


W20-1

STR. #653

500'

500'



MA-R2-10e

500'

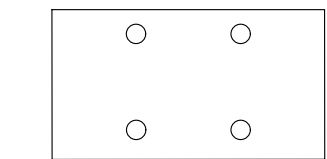
100' DOWNSTREAM TAPER

TEMPORARY ACCESS VIA
EXISTING PATH

150' WORK ZONE

425' BUFFER

ARROW BOARD



(FLASHING CAUTION)

75' SHOULDER
TAPER

500'

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY ACCESS #14
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

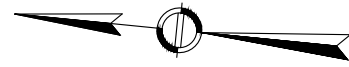
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

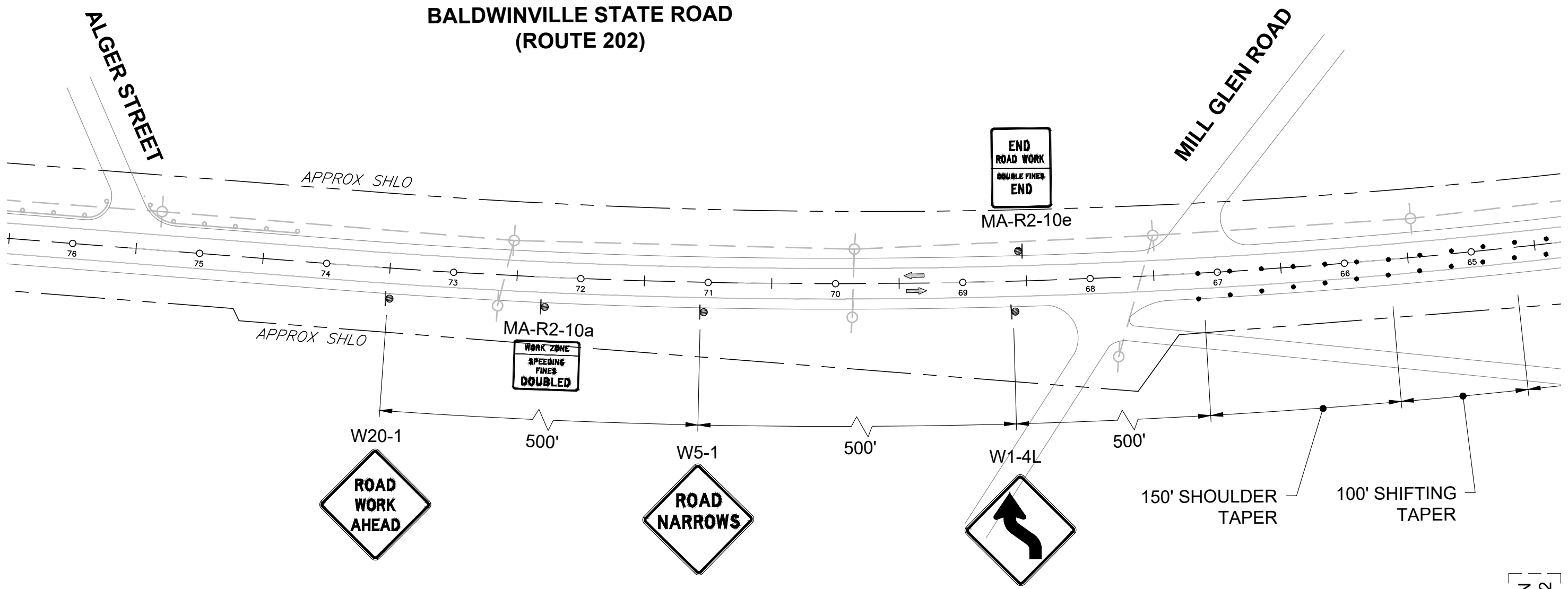
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: A14-2
REV. DATE: 05/15/2025 SHEET NO.: 43 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C1.dwg
 Plotted on: Thursday, May 15, 2025 - 9:12am by KSP0FFORD



**BALDWINVILLE STATE ROAD
(ROUTE 202)**



CONT. ON
PLAN C1-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

**HIGHWAY CROSSING #1
 MASSACHUSETTS ROUTE 202
 WINCHENDON**

PREPARED FOR:

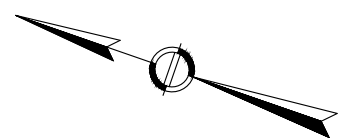
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

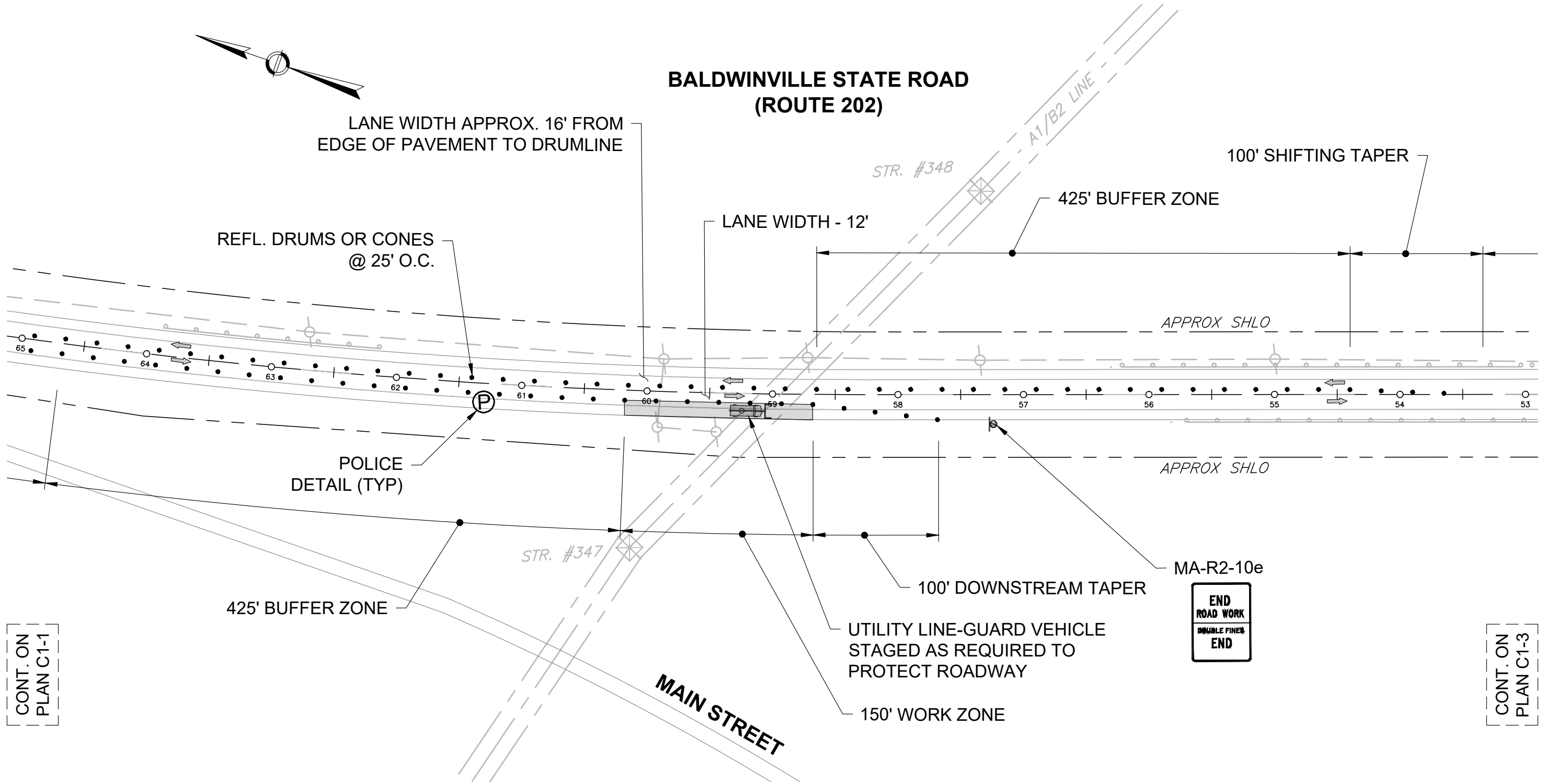
BSC GROUP 
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C1-1
 REV. DATE: 05/15/2025 SHEET NO.: 44 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C1.dwg
 Plotted on: Thursday, May 15, 2025 - 9:12am by KSP0FFORD



BALDWINVILLE STATE ROAD (ROUTE 202)



CONT. ON
PLAN C1-1

CONT. ON
PLAN C1-3

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #1
MASSACHUSETTS ROUTE 202
WINCHENDON

PREPARED FOR:



170 Data Drive
Waltham, Massachusetts
02451

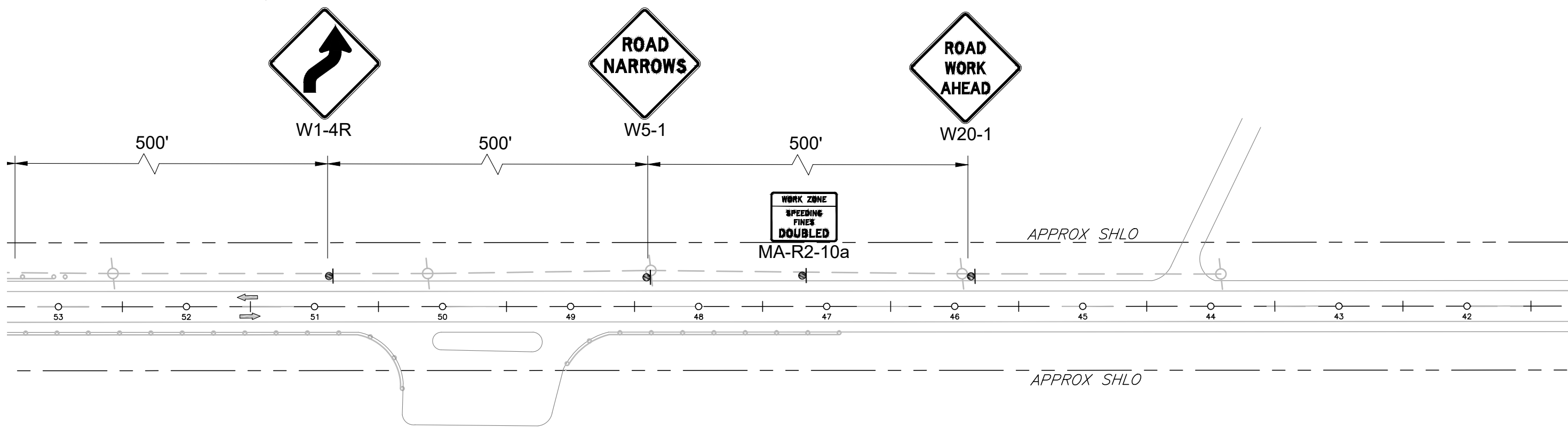
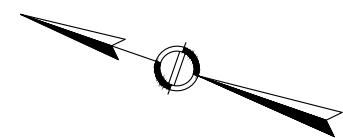
PREPARED BY:



1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66	SCALE: 1" = 80'
ISSUE DATE: 01/16/2024	PLAN NO.: C1-2
REV. DATE: 05/15/2025	SHEET NO.: 45 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C1.dwg
Plotted on: Thursday, May 15, 2025 - 9:12am by KSPOFFORD



CONT. ON
PLAN C1-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #1
MASSACHUSETTS ROUTE 202
WINCHENDON

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

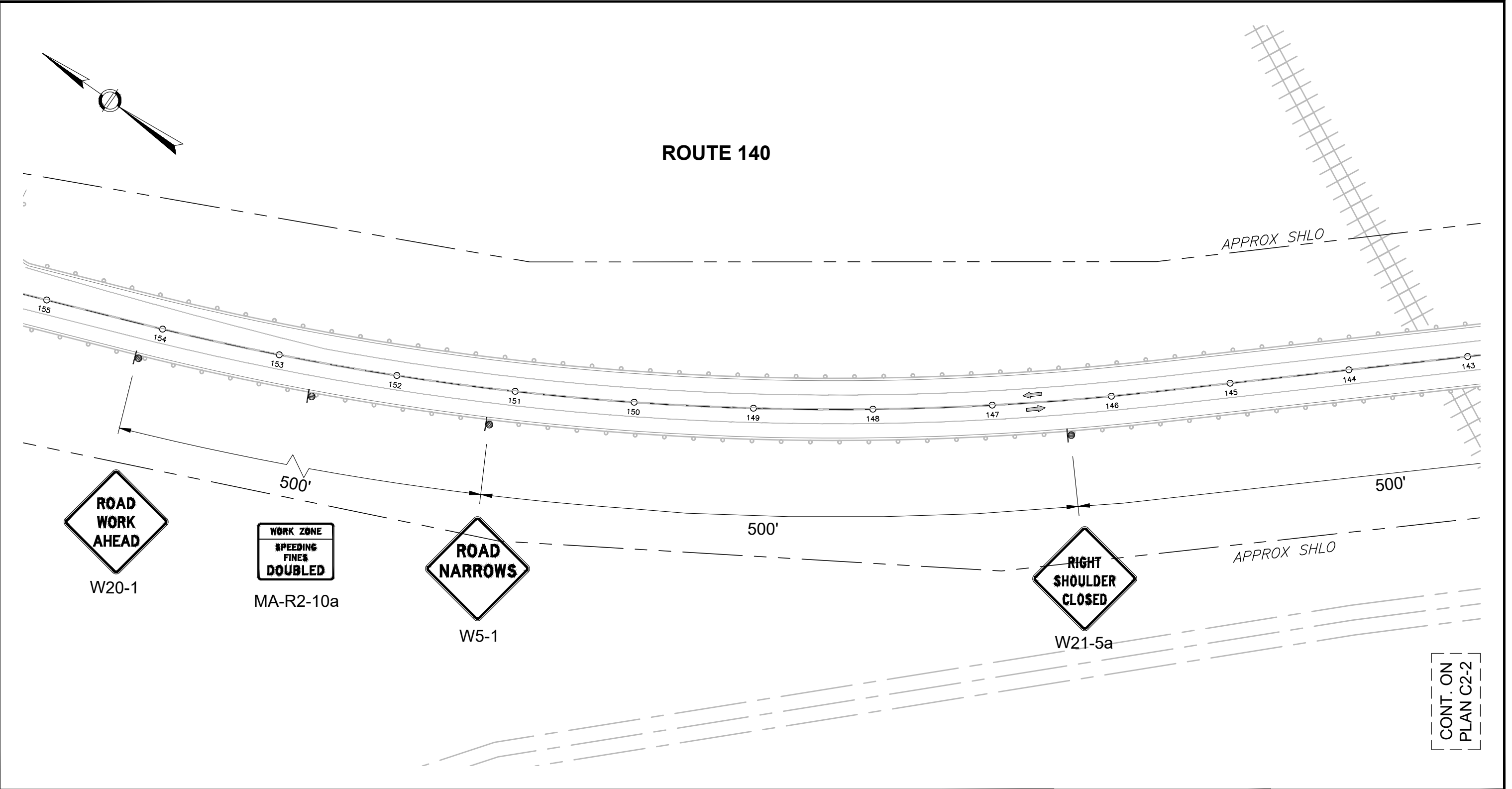
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C1-3
REV. DATE: 05/15/2025 SHEET NO.: 46 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C2.dwg
Plotted on: Thursday, May 15, 2025 - 9:12am by KSP0FFORD



CONT. ON
PLAN C2-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #2
MASSACHUSETTS ROUTE 140
GARDNER

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

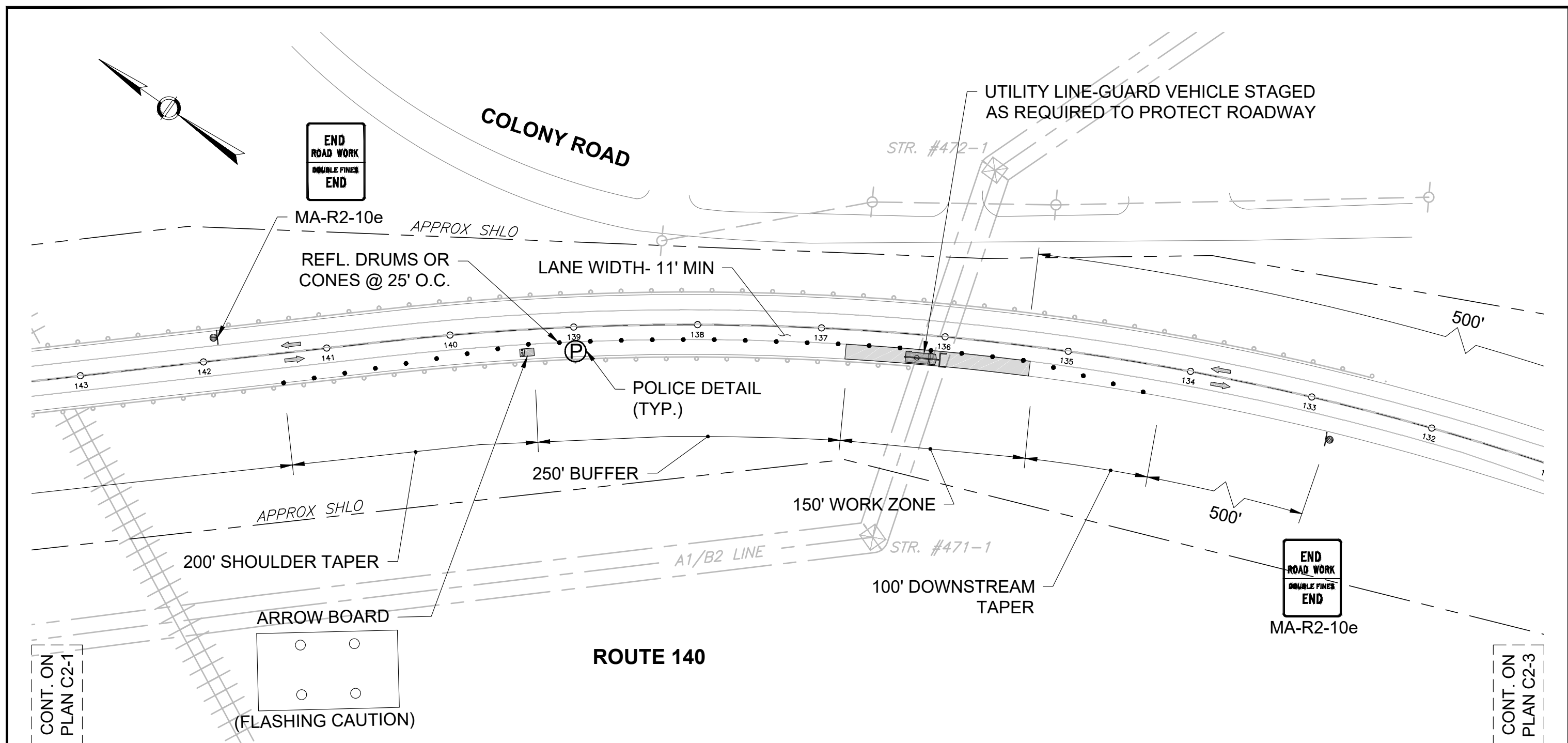
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C2-1
REV. DATE: 05/15/2025 SHEET NO.: 47 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C2.dwg
Plotted on: Thursday, May 15, 2025 - 9:12am by KSP0FF0RD



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

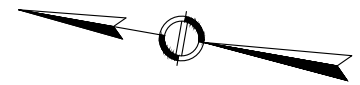
HIGHWAY CROSSING #2
MASSACHUSETTS ROUTE 140
GARDNER

PREPARED FOR:
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:
BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C2-2
REV. DATE: 05/15/2025 SHEET NO.: 48 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C2.dwg
Plotted on: Thursday, May 15, 2025 - 9:12am by KSP0FFORD

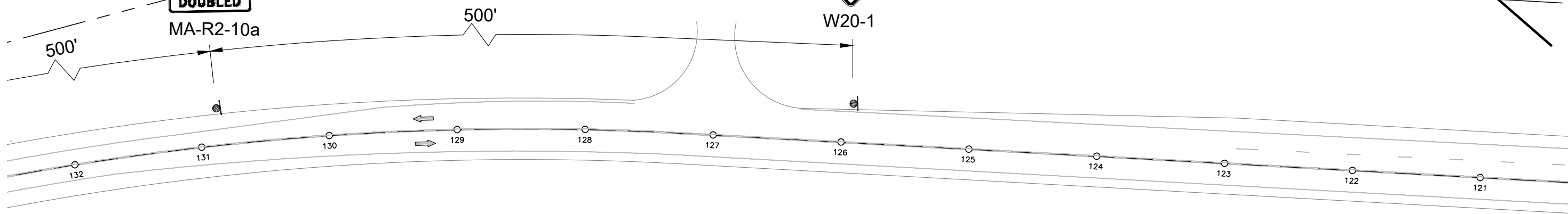


ROUTE 140



APPROX SHLO

APPROX SHLO



CONT. ON
PLAN C2-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #2
MASSACHUSETTS ROUTE 140
GARDNER

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

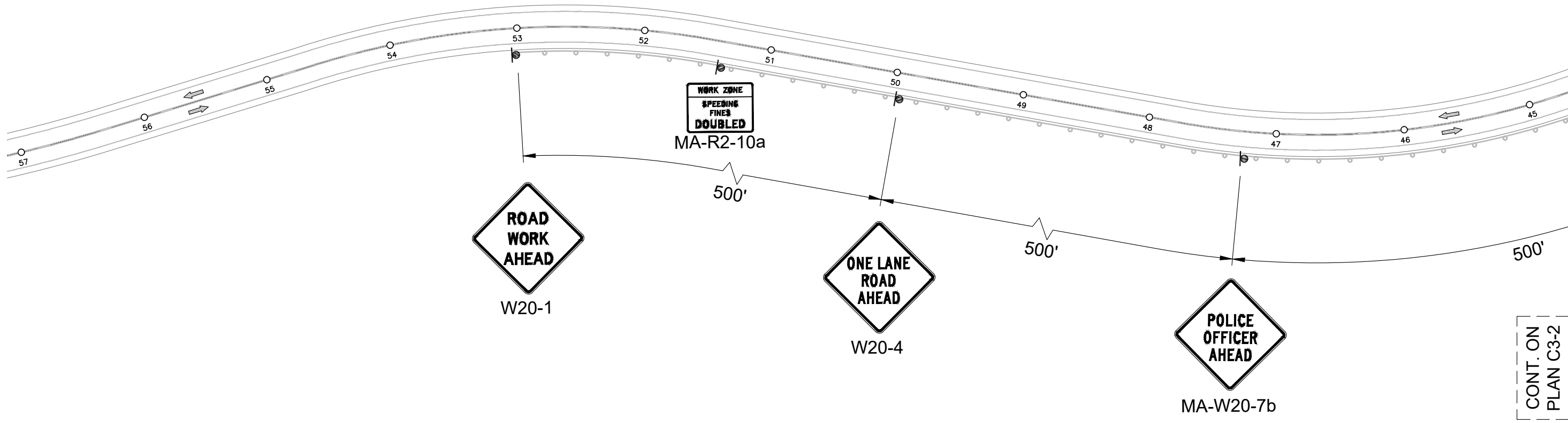
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C2-3
REV. DATE: 05/15/2025 SHEET NO.: 49 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C3.dwg
Plotted on: Thursday, May 15, 2025 - 9:12am by KSPOFFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #3
ROUTE 2A
WESTMINSTER

PREPARED FOR:

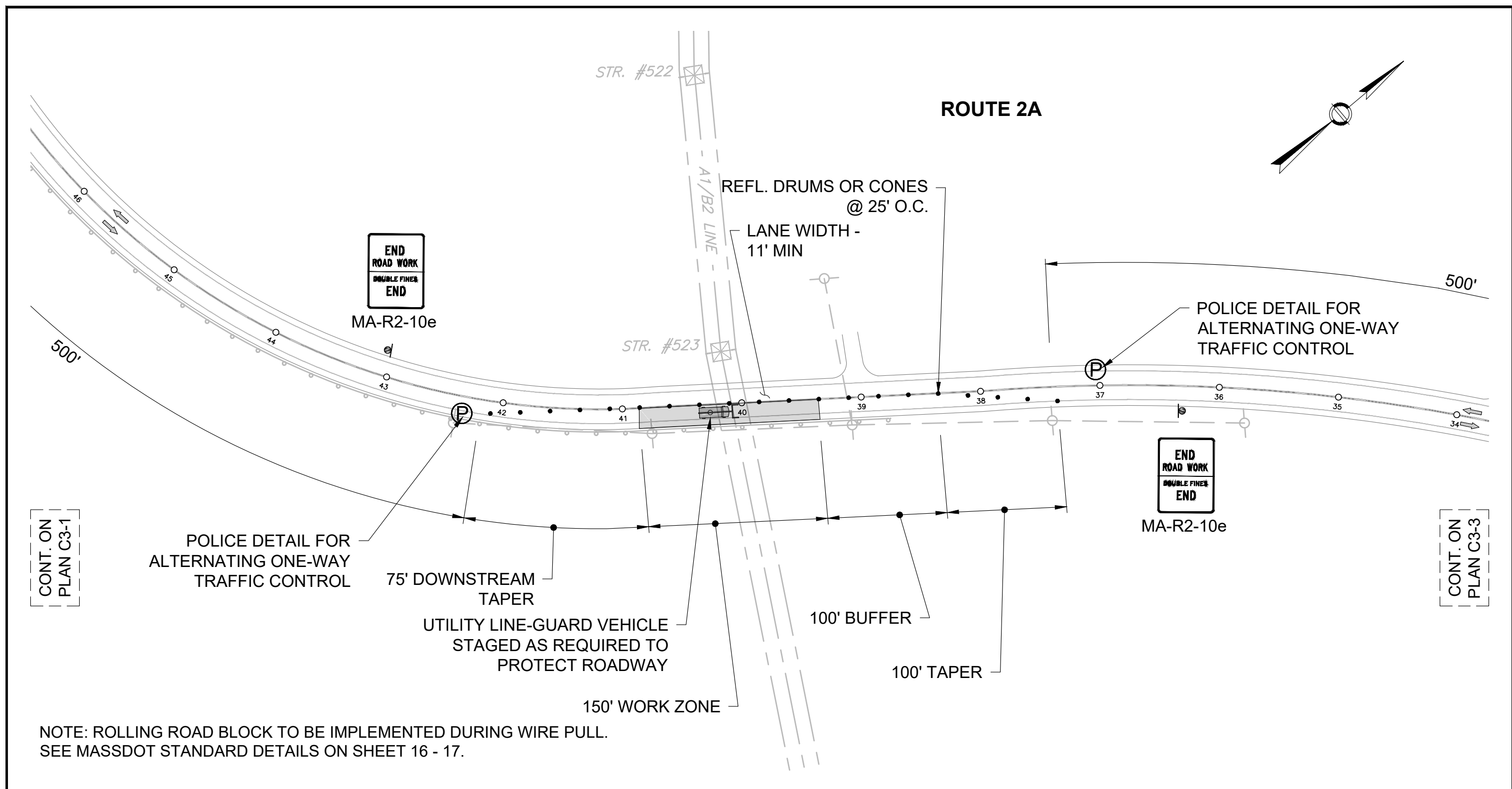
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C3-1
REV. DATE: 05/15/2025 SHEET NO.: 50 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C3.dwg
Plotted on: Thursday, May 15, 2025 - 9:12am by KSP0FFORD



CONT. ON
PLAN C3-1

CONT. ON
PLAN C3-3

NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

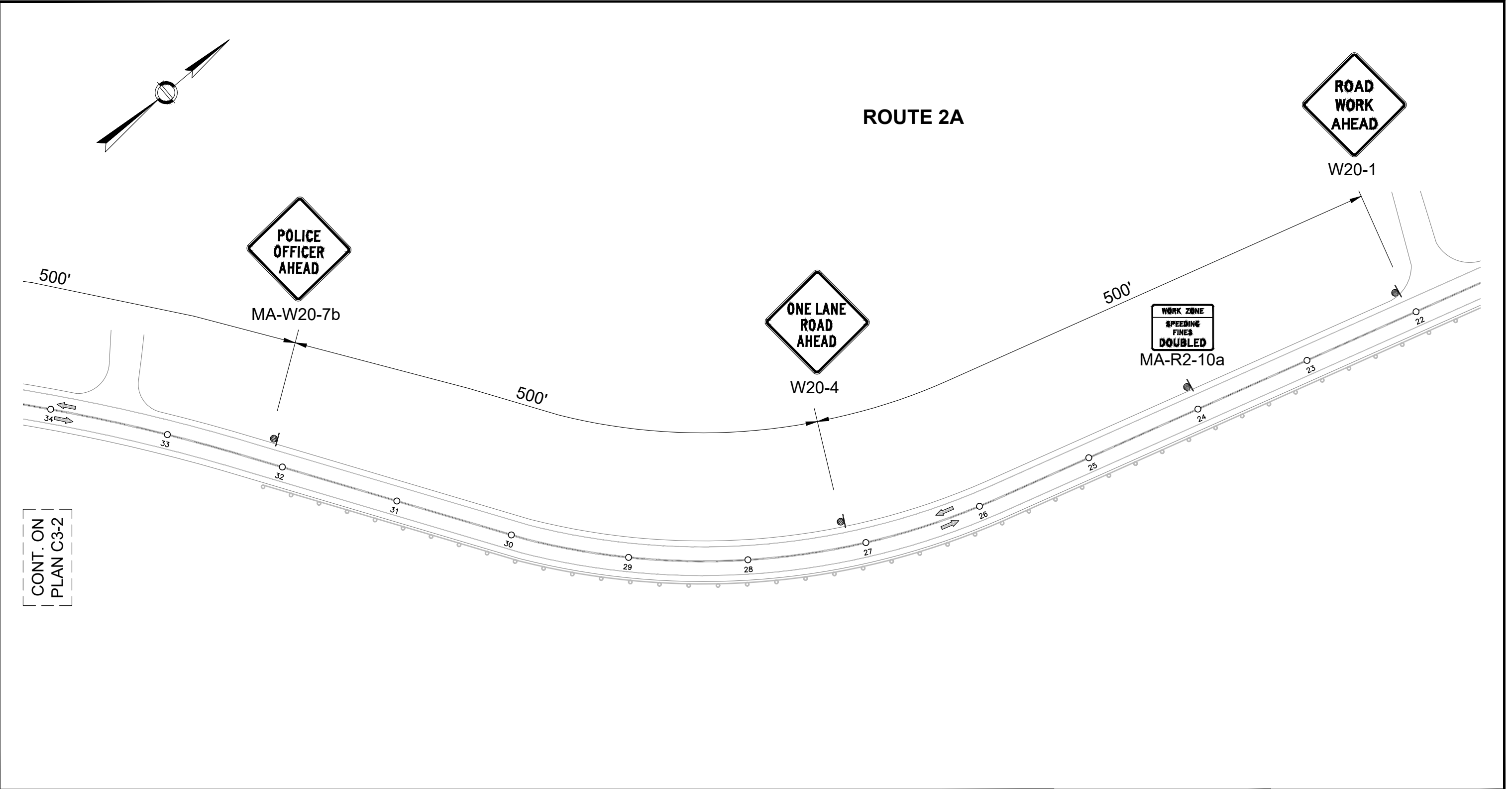
HIGHWAY CROSSING #3
ROUTE 2A
WESTMINSTER

PREPARED FOR:
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:
BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C3-2
REV. DATE: 05/15/2025 SHEET NO.: 51 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C3.dwg
 Plotted on: Thursday, May 15, 2025 - 9:12am by KSPOFFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #3
ROUTE 2A
WESTMINSTER

PREPARED FOR:

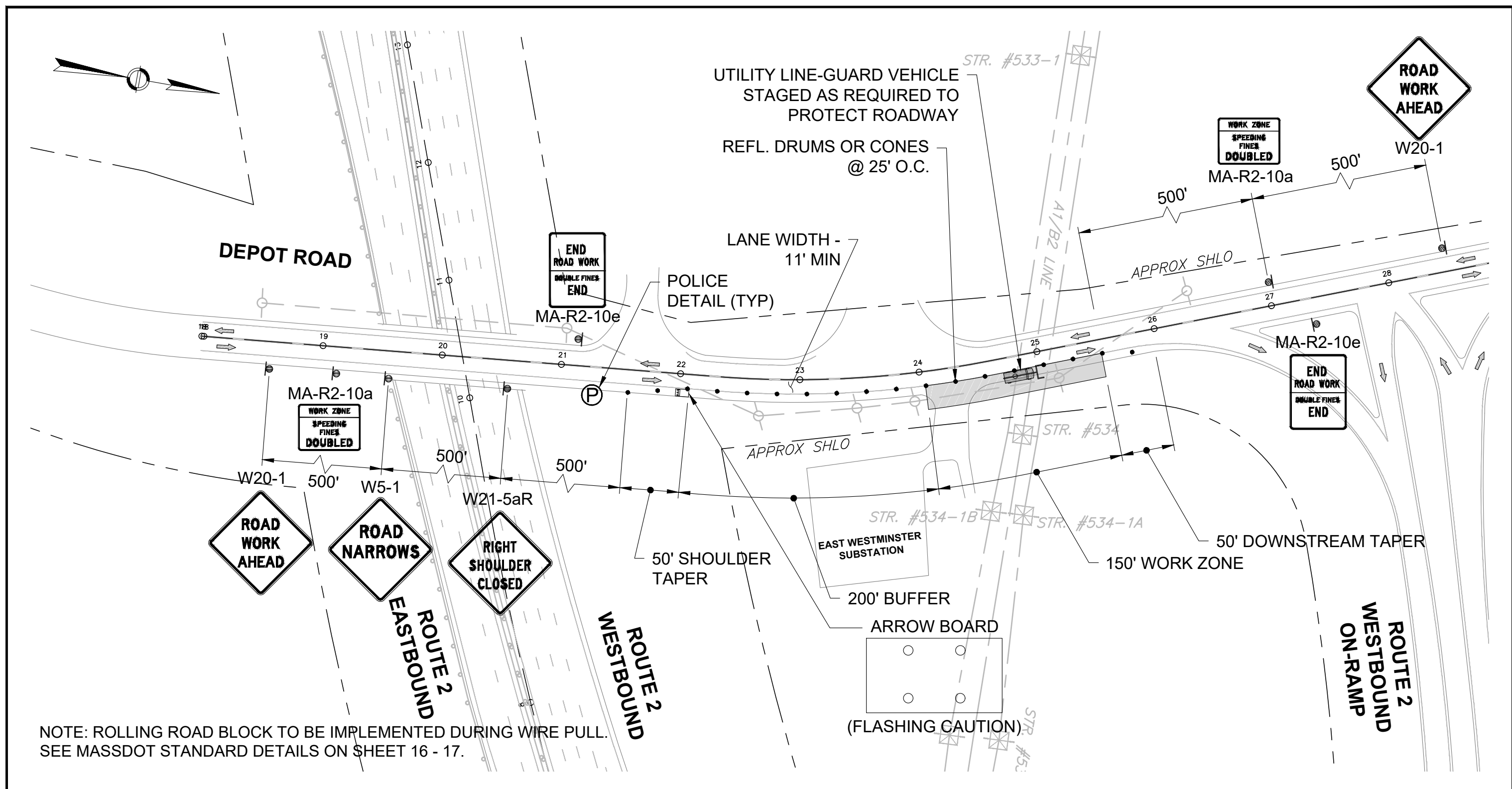
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP 
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66	SCALE: 1" = 80'
ISSUE DATE: 01/16/2024	PLAN NO.: C3-3
REV. DATE: 05/15/2025	SHEET NO.: 52 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C4.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FF0RD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

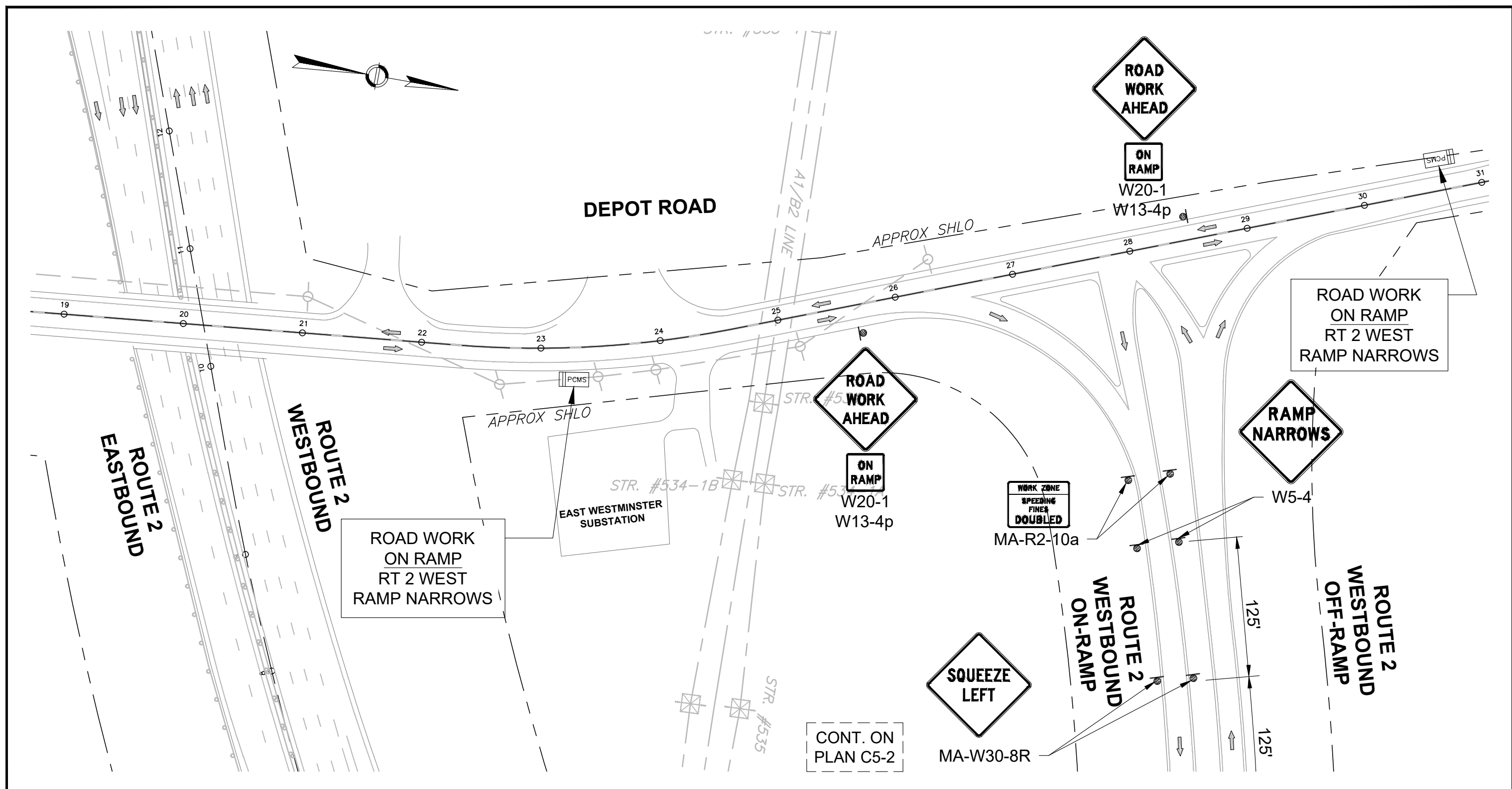
HIGHWAY CROSSING #4
DEPOT ROAD
WESTMINSTER

PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C4-1
 REV. DATE: 05/15/2025 SHEET NO.: 53 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C5.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
HIGHWAY CROSSING #5
ROUTE 2 WESTBOUND EXIT 94 ON-RAMP
WESTMINSTER

PREPARED FOR:

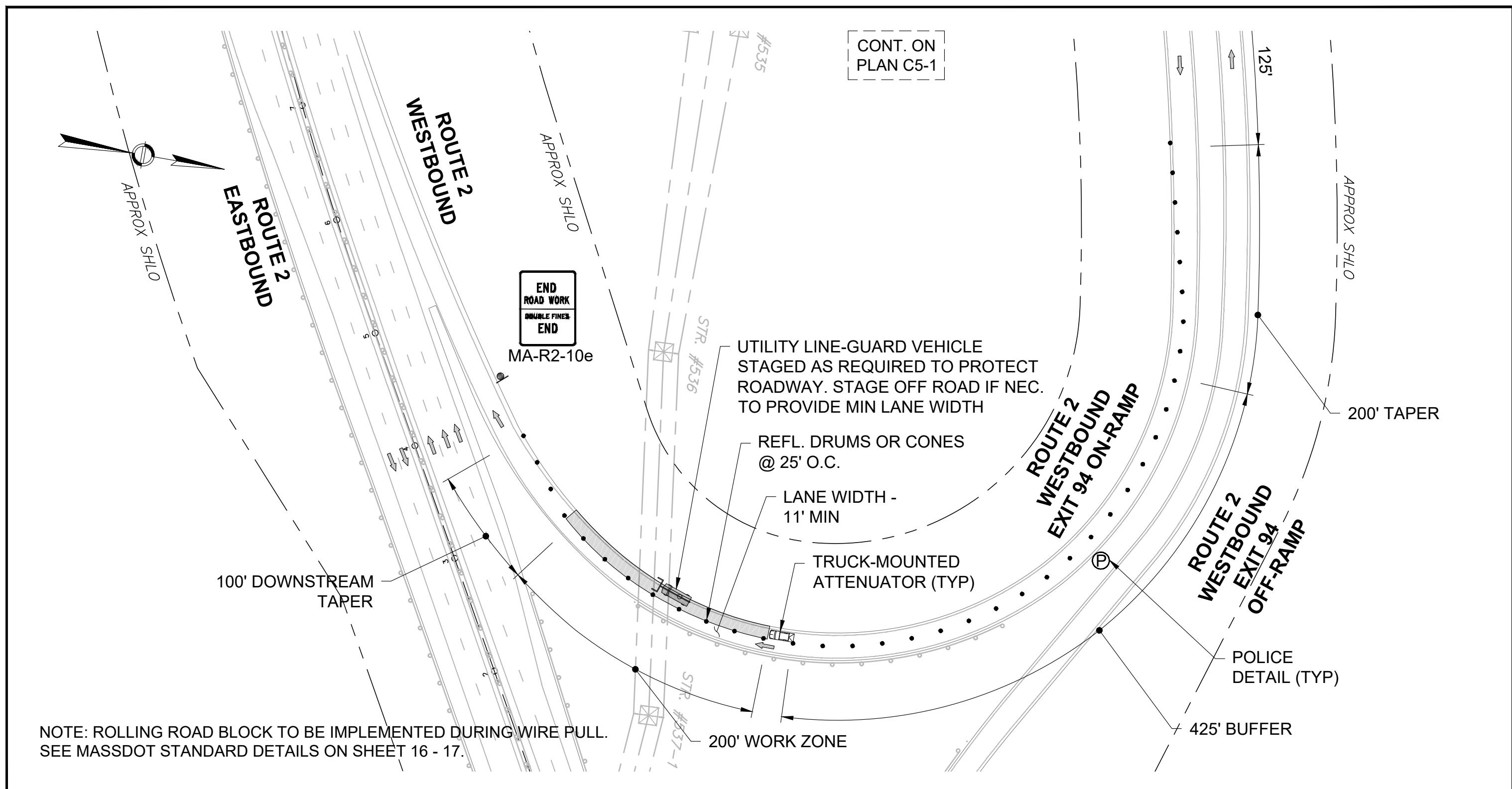
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP 
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C5-1
 REV. DATE: 05/15/2025 SHEET NO.: 54 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C5.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FFORD



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #5
ROUTE 2 WESTBOUND EXIT 94 ON-RAMP
WESTMINSTER

PREPARED FOR:

nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

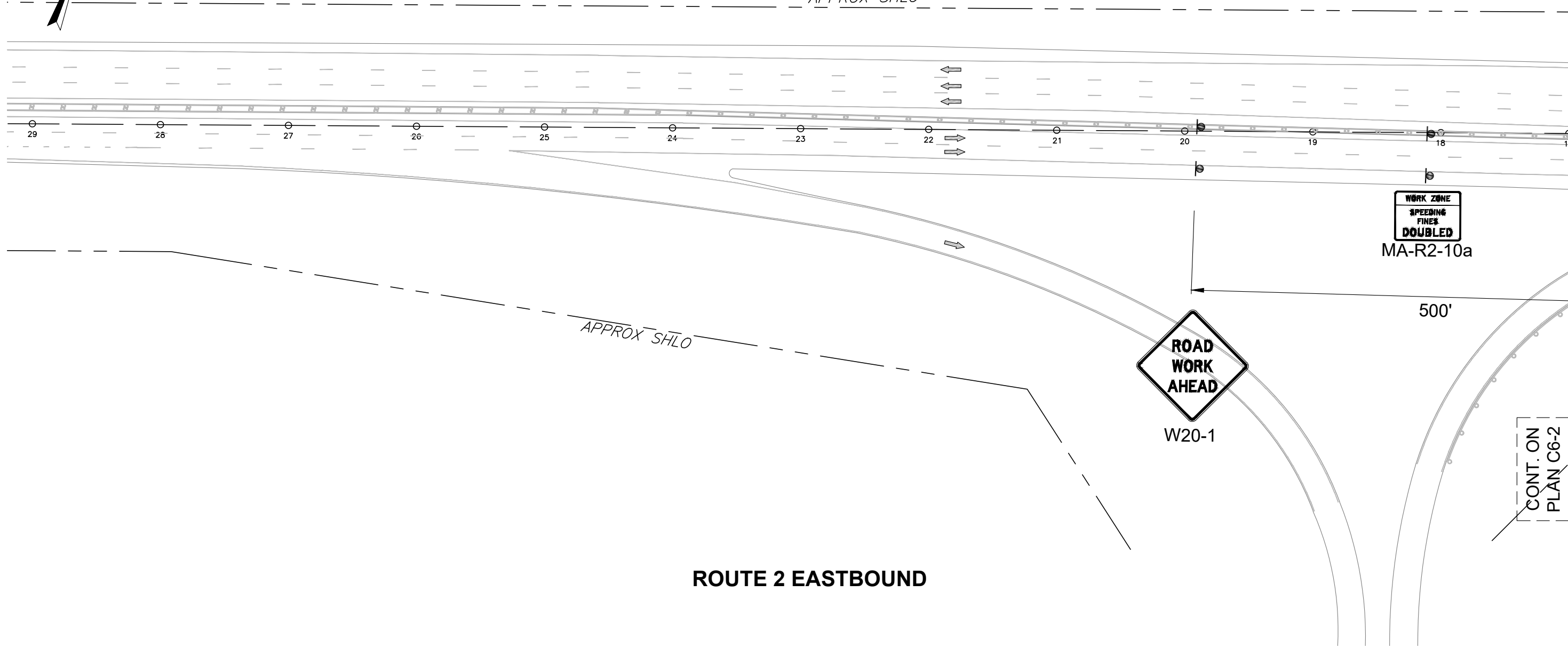
BSC GROUP 
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C5-2
 REV. DATE: 05/15/2025 SHEET NO.: 55 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C6.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSPOFFORD

ROUTE 2 WESTBOUND

APPROX SHLO



ROUTE 2 EASTBOUND

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #6 ROUTE 2 EASTBOUND/WESTBOUND WESTMINSTER/FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

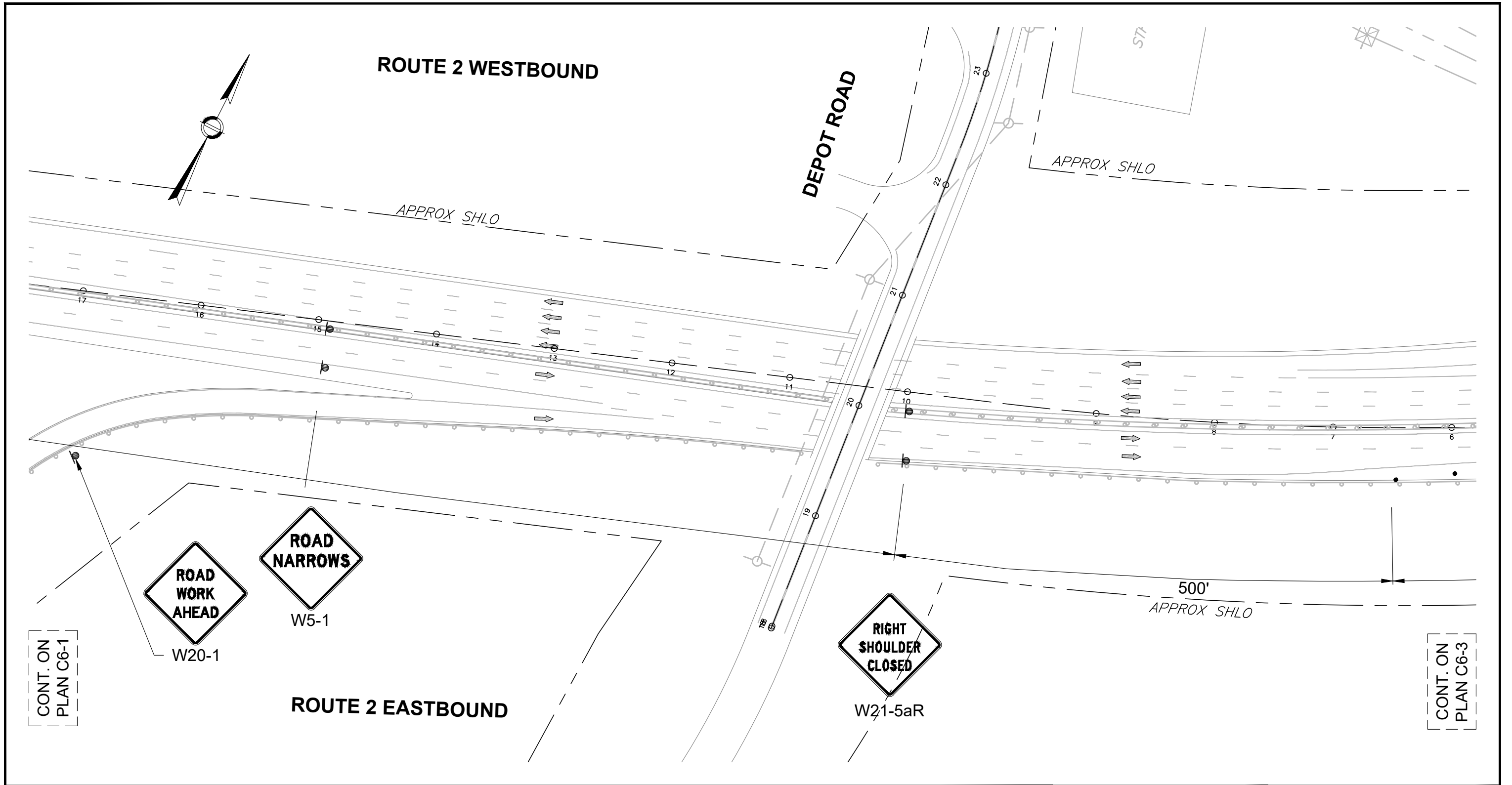
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66	SCALE: 1" = 80'
ISSUE DATE: 01/16/2024	PLAN NO.: C6-1
REV. DATE: 05/15/2025	SHEET NO.: 56 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C6.dwg
Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #6
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG

PREPARED FOR:

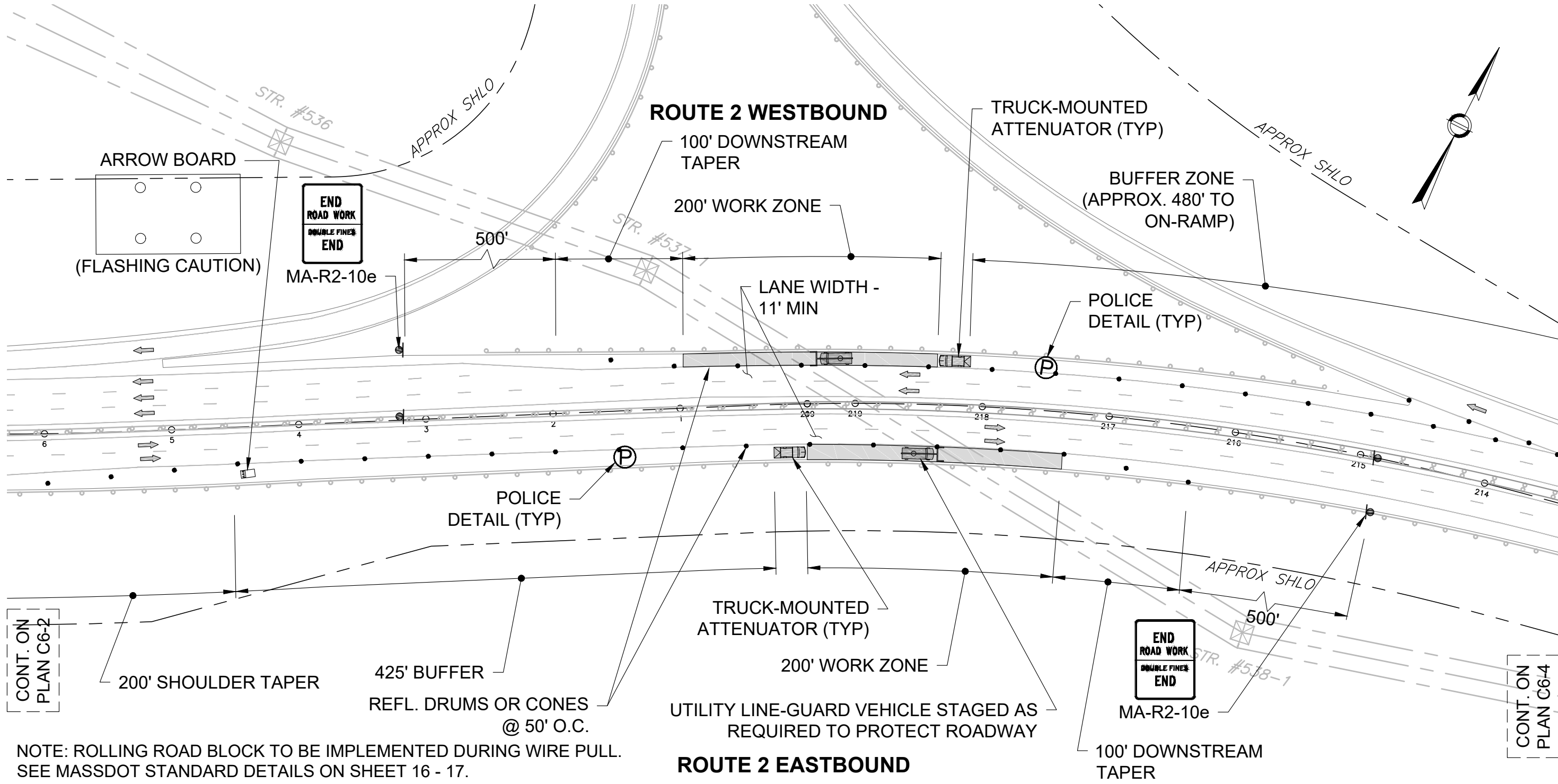
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP 
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C6-2
REV. DATE: 05/15/2025 SHEET NO.: 57 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C6.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FF0RD



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
 SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #6
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
 Waltham, Massachusetts
 02451

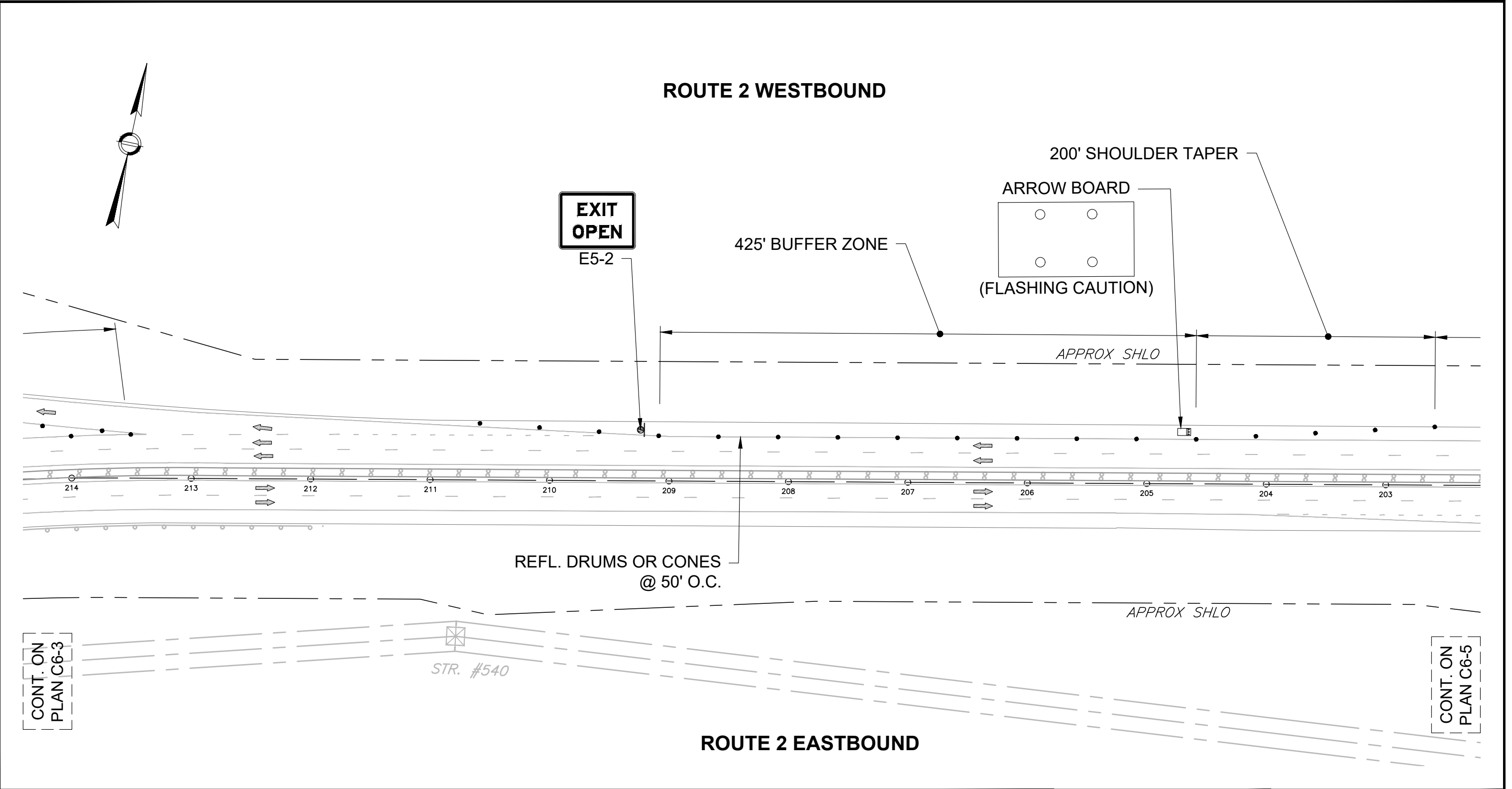
PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT

1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C6-3
 REV. DATE: 05/15/2025 SHEET NO.: 58 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C6.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

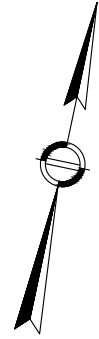
TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #6
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG

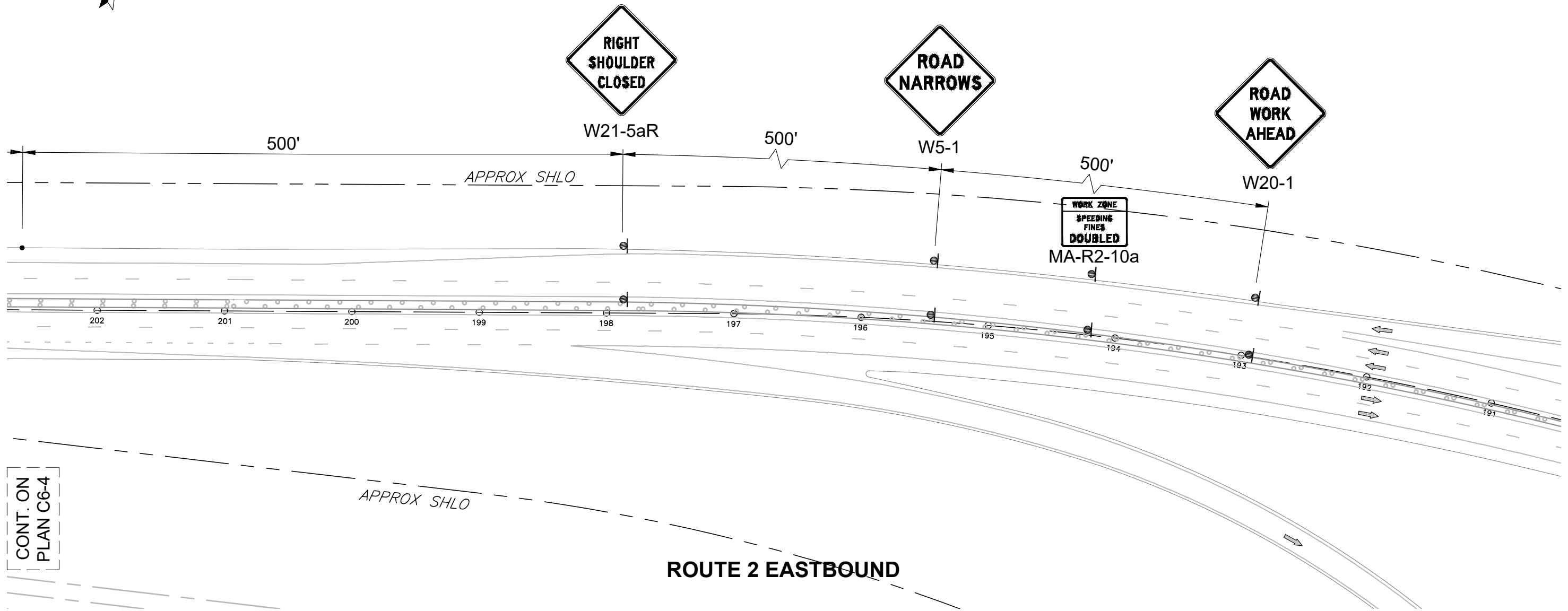
PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C6-4
 REV. DATE: 05/15/2025 SHEET NO.: 59 of 81



ROUTE 2 WESTBOUND



ROUTE 2 EASTBOUND

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #6
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG

PREPARED FOR:

nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

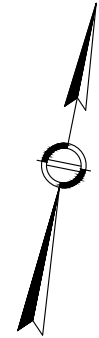
PREPARED BY:

BSC GROUP 
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C6-5
 REV. DATE: 05/15/2025 SHEET NO.: 60 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C6.dwg
 Plotted on: Thursday, May 15, 2025 - 9:13am by KSP0FFORD

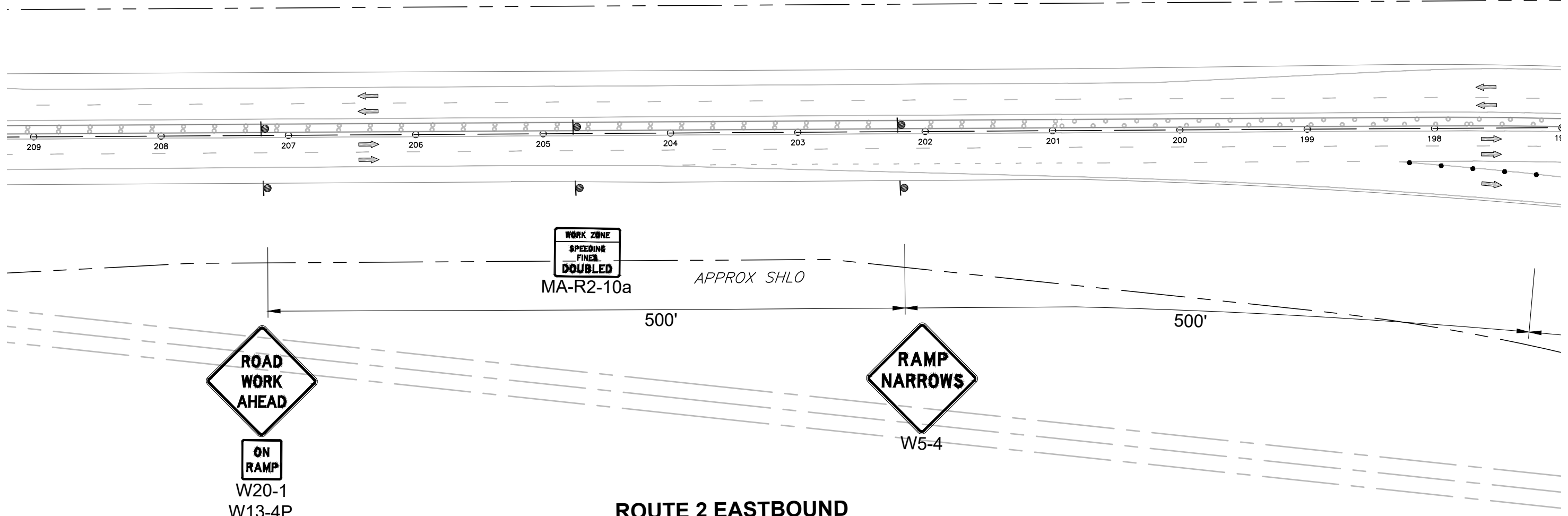
Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C7.dwg
 Plotted on: Thursday, May 15, 2025 - 9:14am by KSPOFFORD



ROUTE 2 WESTBOUND

CONT. ON
 PLAN C7-2

APPROX SHLO



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #7
ROUTE 2 EASTBOUND EXIT 95 OFF-RAMP
FITCHBURG

PREPARED FOR:

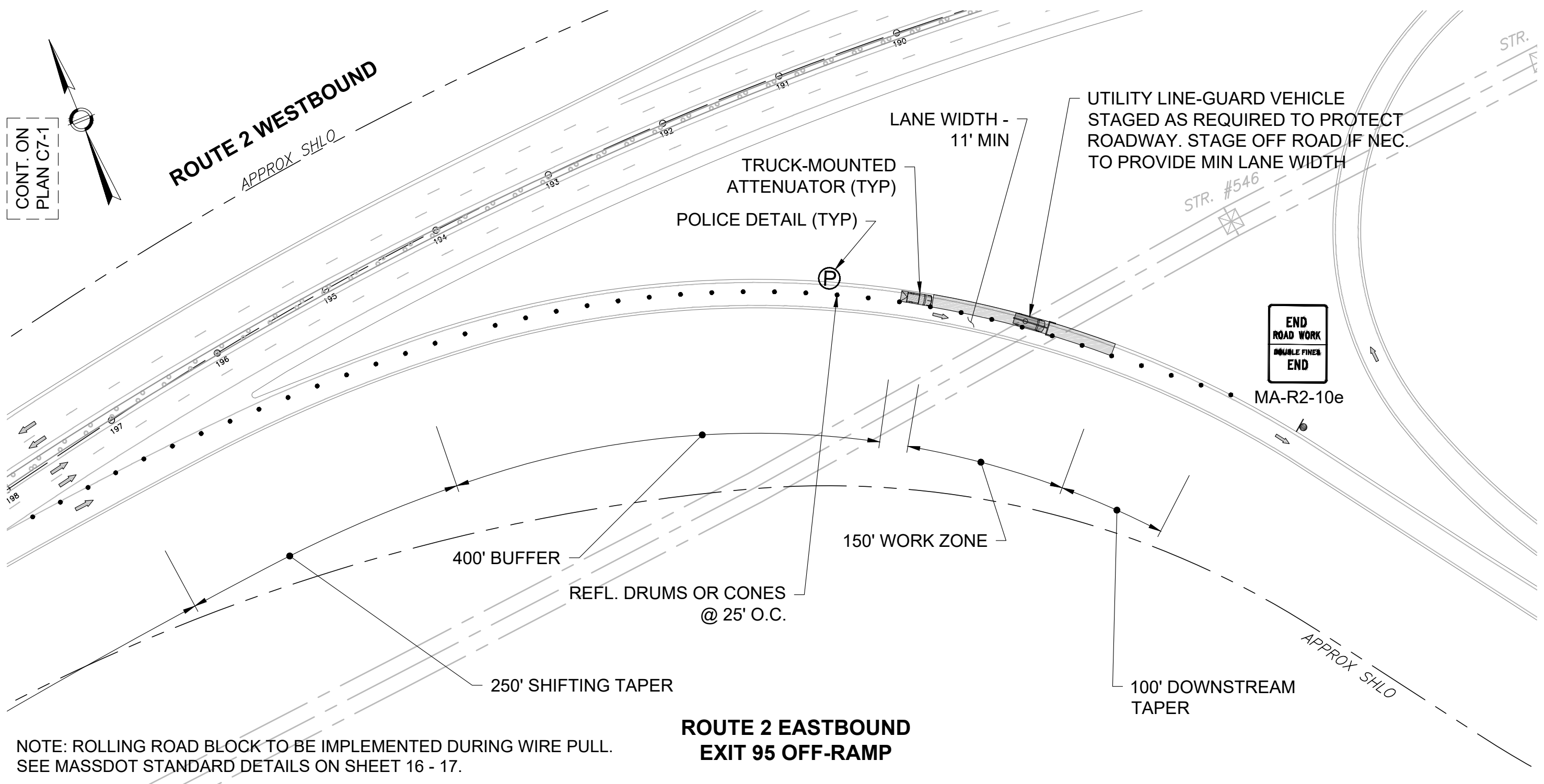
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66	SCALE: 1" = 80'
ISSUE DATE: 01/16/2024	PLAN NO.: C7-1
REV. DATE: 05/15/2025	SHEET NO.: 61 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C7.dwg
 Plotted on: Thursday, May 15, 2025 - 9:14am by KSP0FF0RD



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

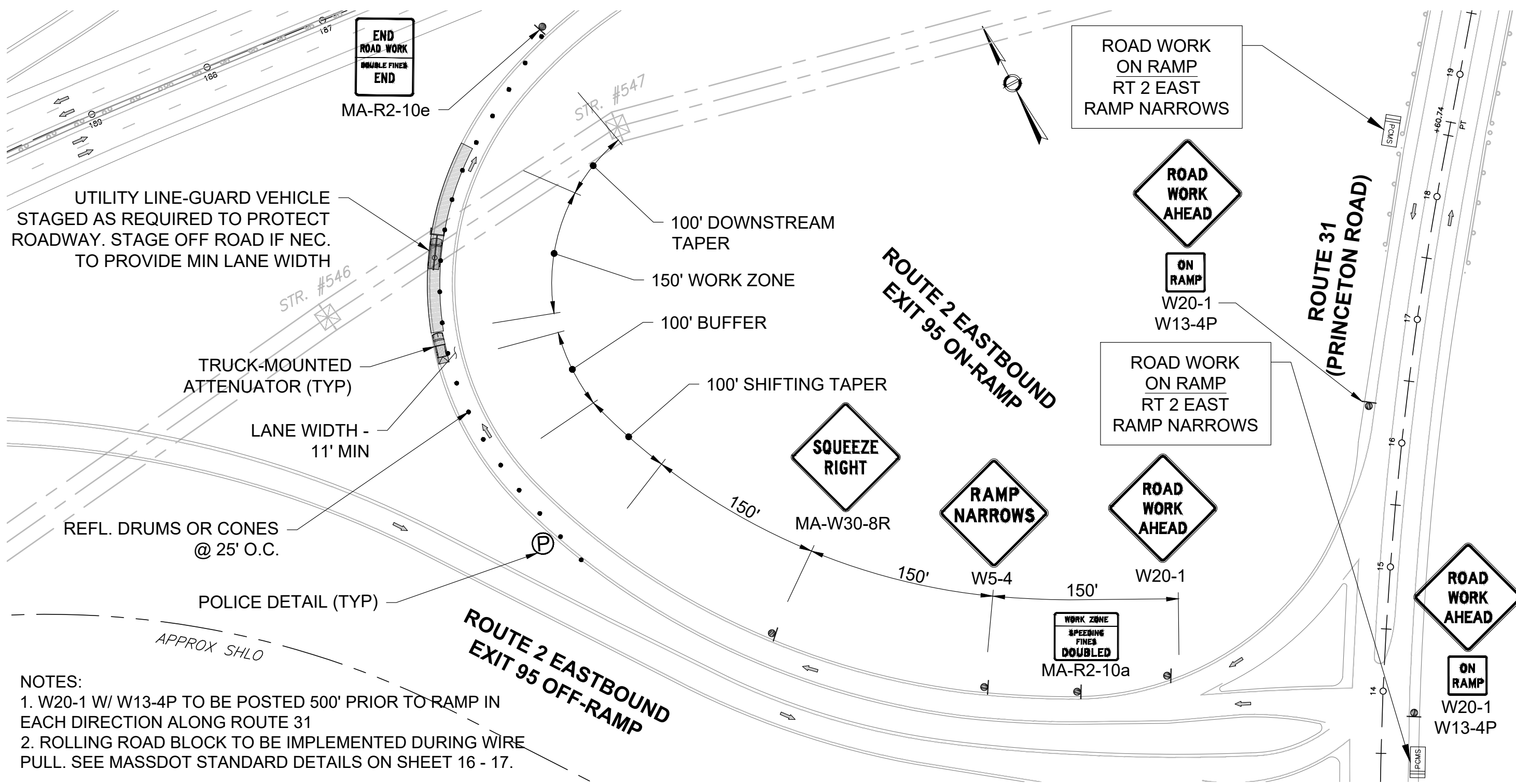
TEMPORARY TRAFFIC CONTROL PLANS
HIGHWAY CROSSING #7
ROUTE 2 EASTBOUND EXIT 95 OFF-RAMP
FITCHBURG

PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C7-2
 REV. DATE: 05/15/2025 SHEET NO.: 62 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C8.dwg
 Plotted on: Thursday, May 15, 2025 - 9:14am by KSP0FF0RD



UTILITY LINE-GUARD VEHICLE STAGED AS REQUIRED TO PROTECT ROADWAY. STAGE OFF ROAD IF NEC. TO PROVIDE MIN LANE WIDTH

TRUCK-MOUNTED ATTENUATOR (TYP)

LANE WIDTH - 11' MIN

REFL. DRUMS OR CONES @ 25' O.C.

POLICE DETAIL (TYP)

APPROX SHLO

NOTES:

1. W20-1 W/ W13-4P TO BE POSTED 500' PRIOR TO RAMP IN EACH DIRECTION ALONG ROUTE 31
2. ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL. SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #8
ROUTE 2 EASTBOUND EXIT 95 ON-RAMP
FITCHBURG

PREPARED FOR:

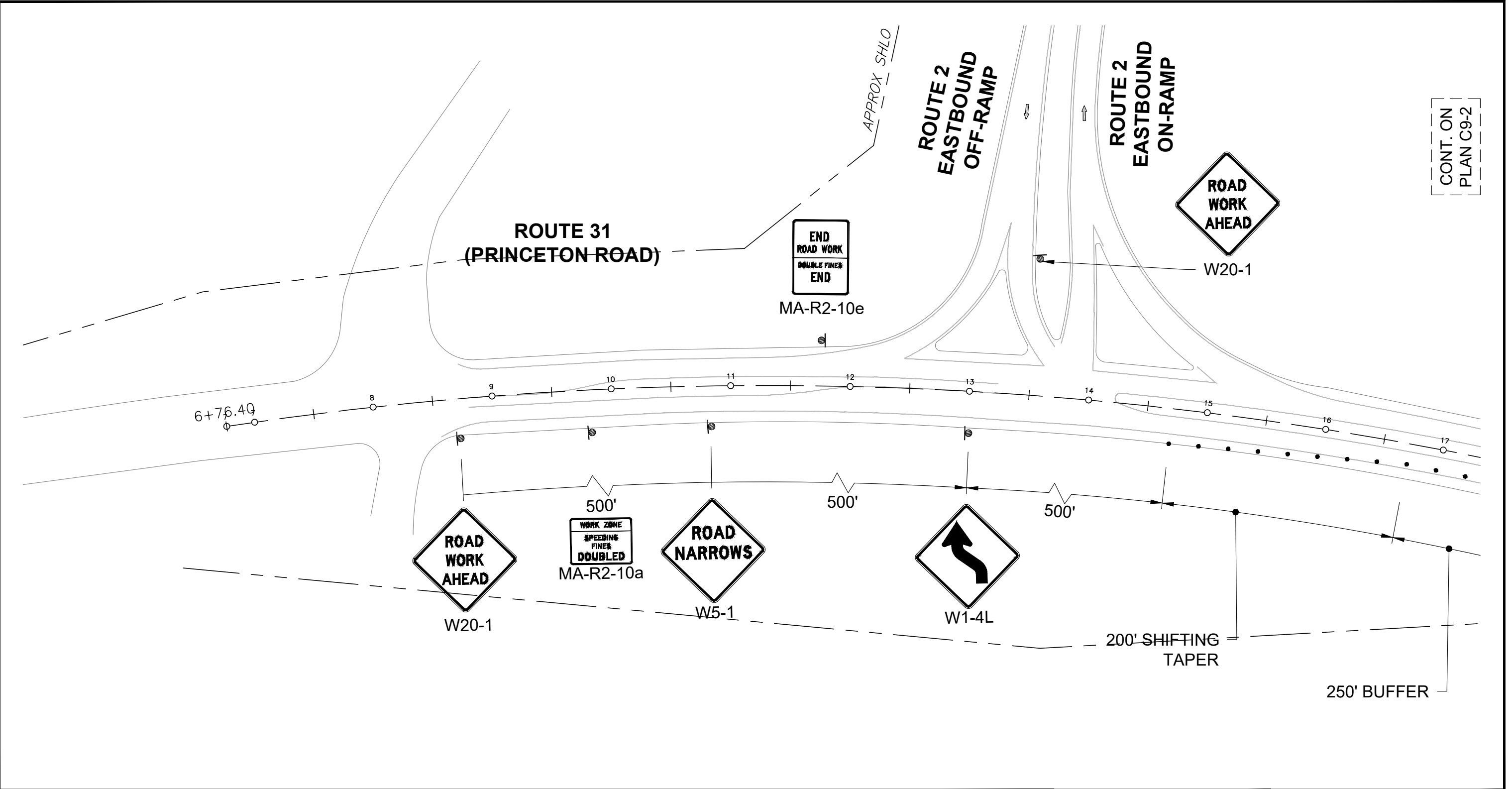
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C8-1
 REV. DATE: 05/15/2025 SHEET NO.: 63 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C9.dwg
 Plotted on: Thursday, May 15, 2025 - 9:14am by KSP0FFORD



CONT. ON
 PLAN C9-2

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #9
ROUTE 31 (PRINCETON ROAD)
FITCHBURG

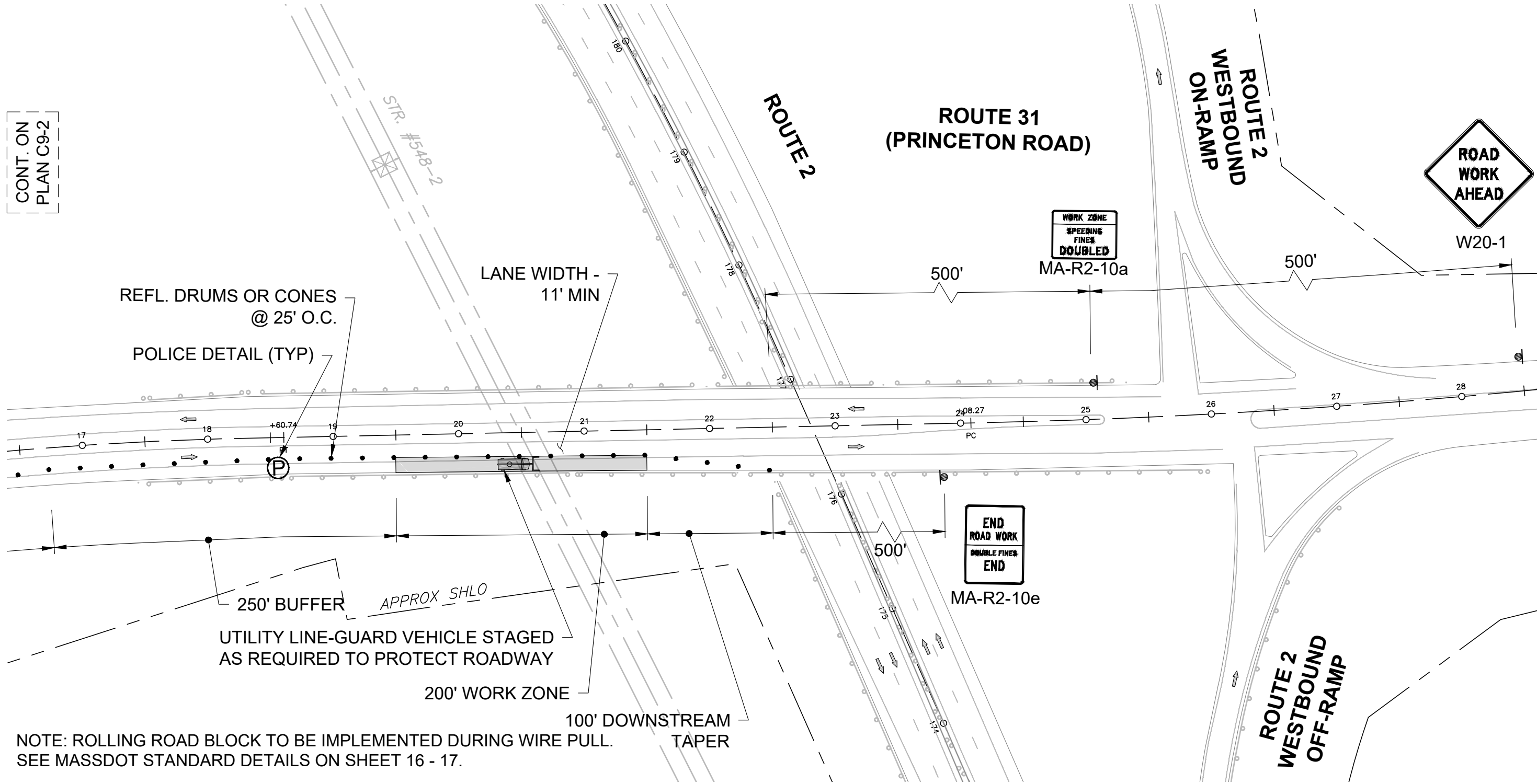
PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C9-1
 REV. DATE: 05/15/2025 SHEET NO.: 64 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C9.dwg
Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FF0RD

CONT. ON
PLAN C9-2



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #9
ROUTE 31 (PRINCETON ROAD)
FITCHBURG

PREPARED FOR:

nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

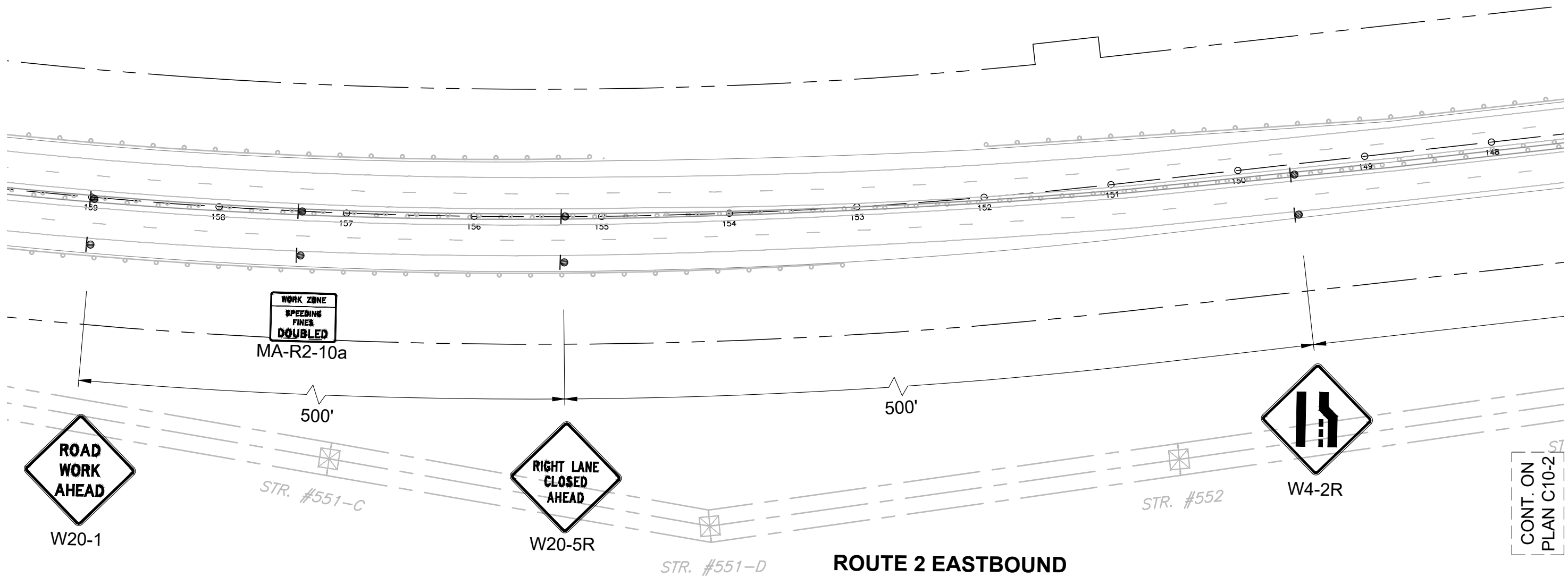
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C9-2
REV. DATE: 05/15/2025 SHEET NO.: 65 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C10.dwg
Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FFORD

ROUTE 2 WESTBOUND



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #10 ROUTE 2 EASTBOUND/WESTBOUND FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

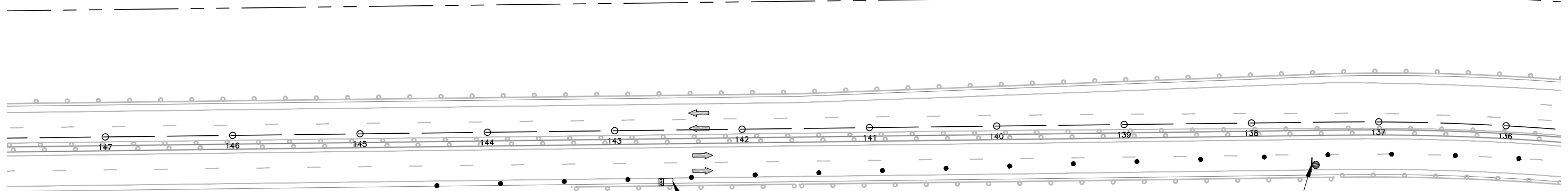
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C10-1
REV. DATE: 05/15/2025 SHEET NO.: 66 of 81

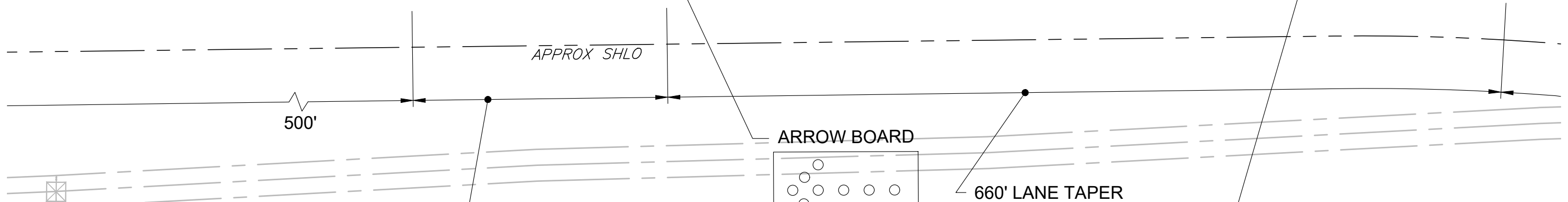


ROUTE 2 WESTBOUND

APPROX SHLO

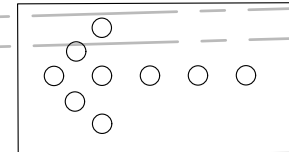


APPROX SHLO



500'

ARROW BOARD



(FLASHING LEFT)

660' LANE TAPER

200' SHOULDER TAPER



E5-2

ROUTE 2 EASTBOUND

CONT. ON
PLAN C10-1

CONT. ON
PLAN C10-3

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #10 ROUTE 2 EASTBOUND/WESTBOUND FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
Waltham, Massachusetts
02451

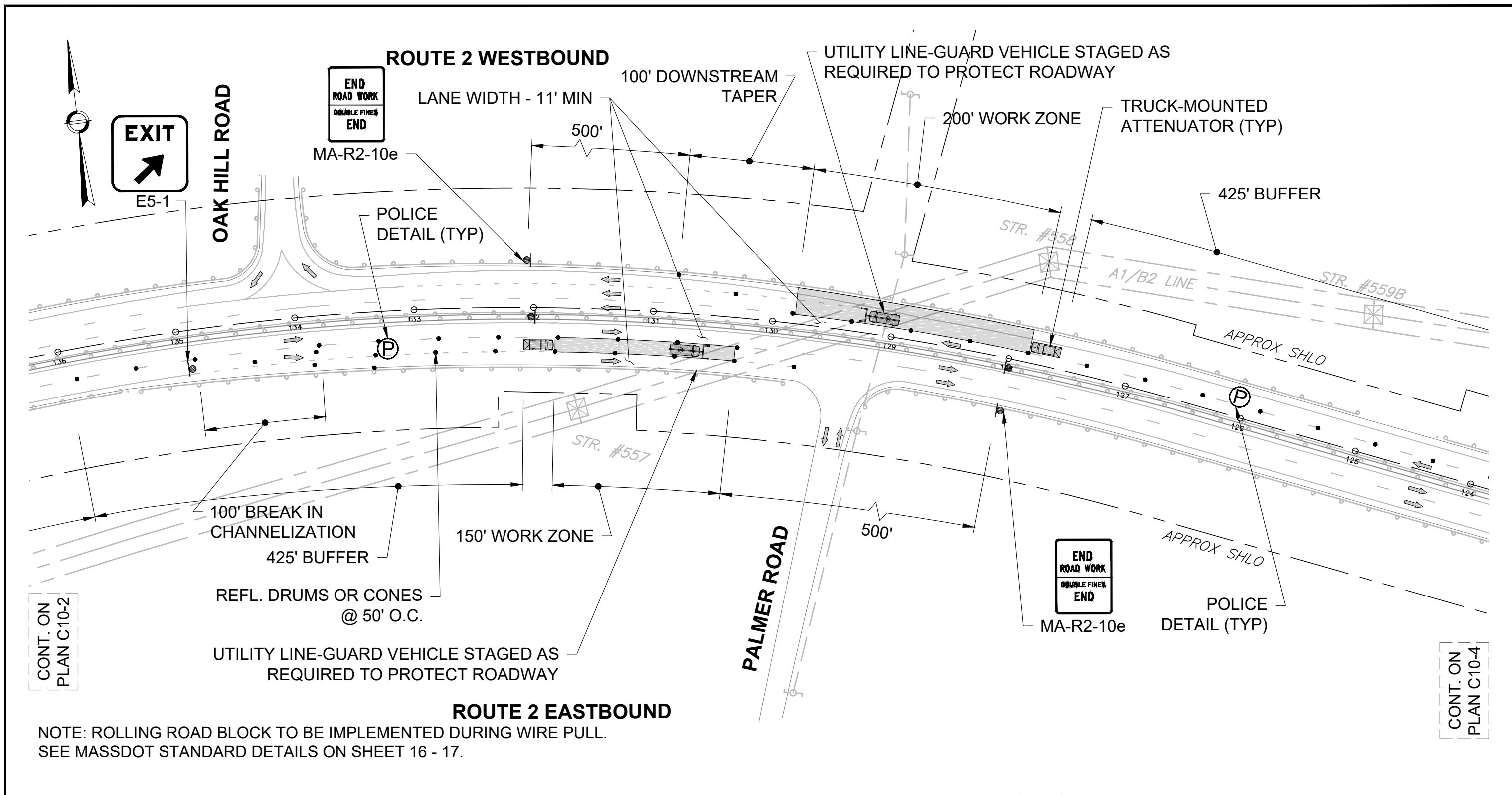
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT

1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C10-2
REV. DATE: 05/15/2025 SHEET NO.: 67 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C10.dwg
Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FF0RD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #10
ROUTE 2 EASTBOUND/WESTBOUND
FITCHBURG

PREPARED FOR:

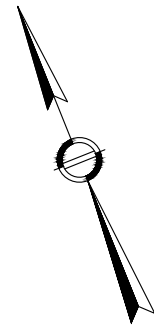
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

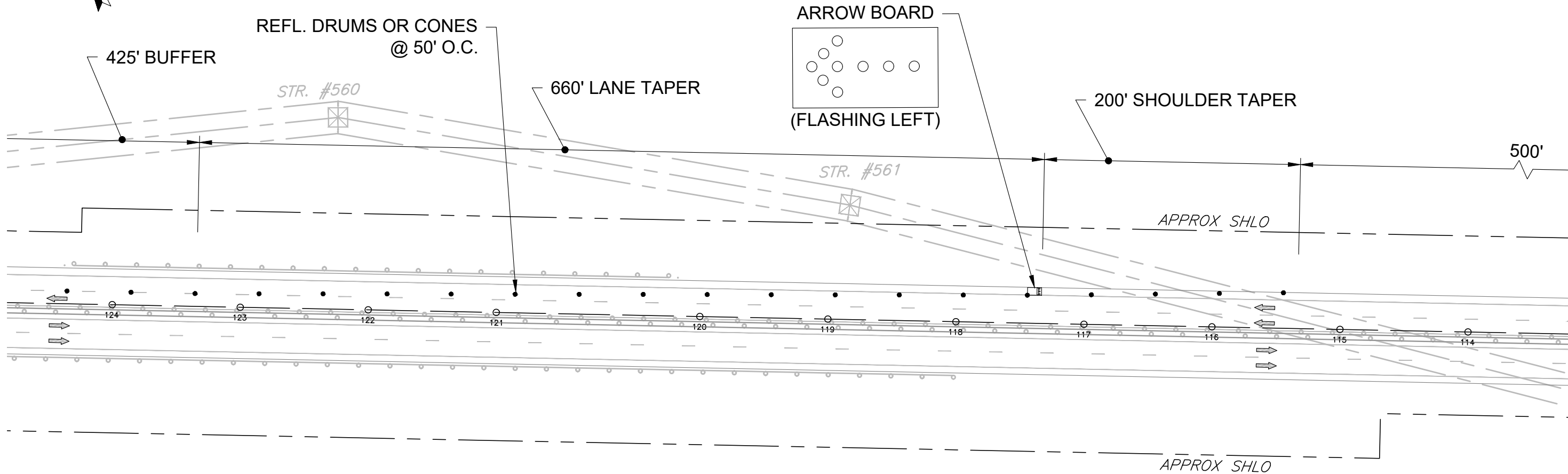
BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C10-3
REV. DATE: 05/15/2025 SHEET NO.: 68 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C10.dwg
Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FFORD



ROUTE 2 WESTBOUND



ROUTE 2 EASTBOUND



CONT. ON
PLAN C10-3

CONT. ON
PLAN C10-5

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #10 ROUTE 2 EASTBOUND/WESTBOUND FITCHBURG

PREPARED FOR:

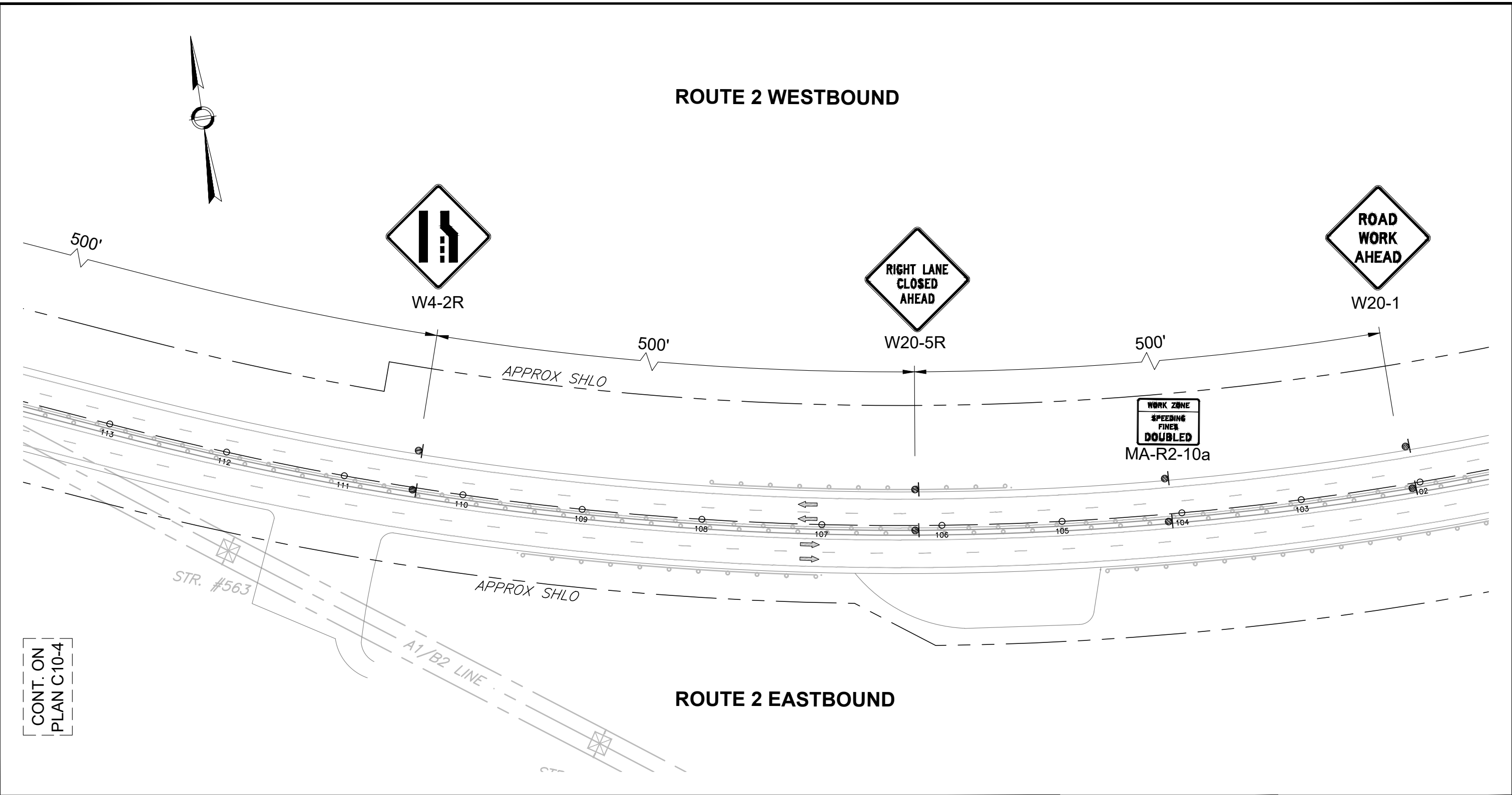
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP 
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
ISSUE DATE: 01/16/2024 PLAN NO.: C10-4
REV. DATE: 05/15/2025 SHEET NO.: 69 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C10.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FFORD



CONT. ON
 PLAN C10-4

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #10
ROUTE 2 EASTBOUND/WESTBOUND
FITCHBURG

PREPARED FOR:

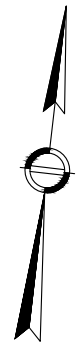
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

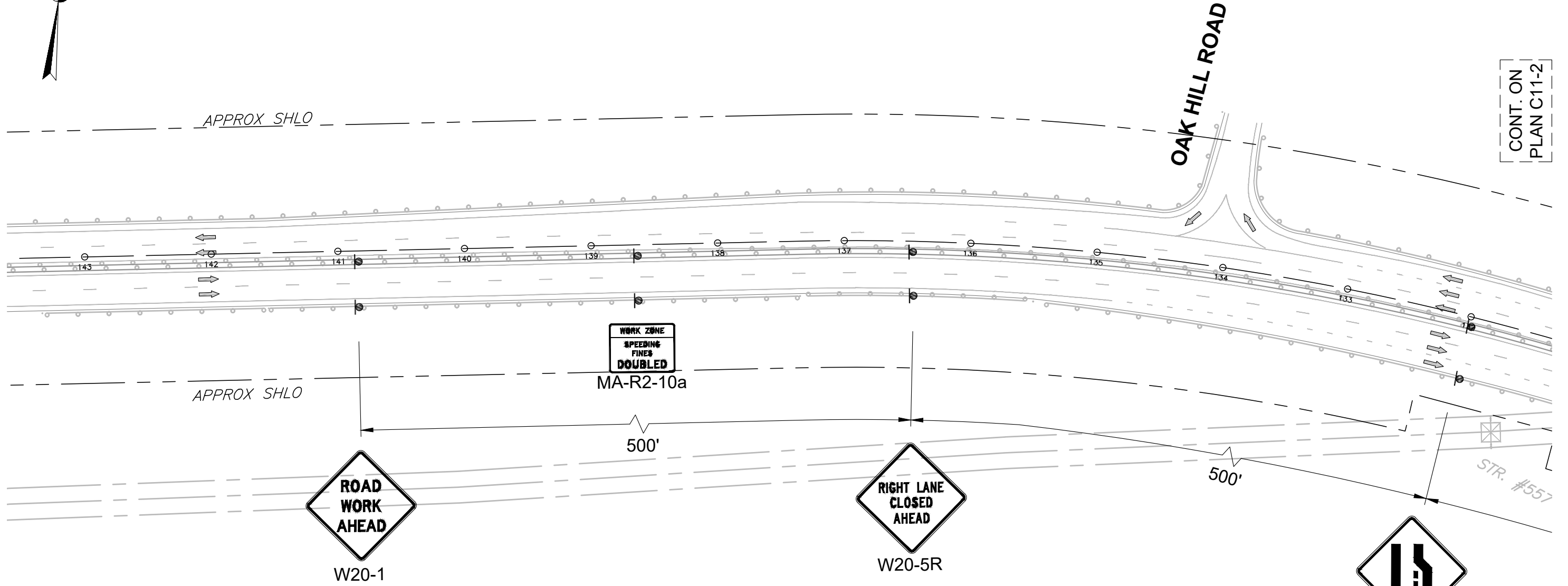
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66	SCALE: 1" = 80'
ISSUE DATE: 01/16/2024	PLAN NO.: C10-5
REV. DATE: 05/15/2025	SHEET NO.: 70 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C11.dwg
Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FFORD



ROUTE 2 WESTBOUND



ROUTE 2 EASTBOUND

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #11
ROUTE 2 EASTBOUND/WESTBOUND
FITCHBURG

PREPARED FOR:

nationalgrid

170 Data Drive
 Waltham, Massachusetts
 02451

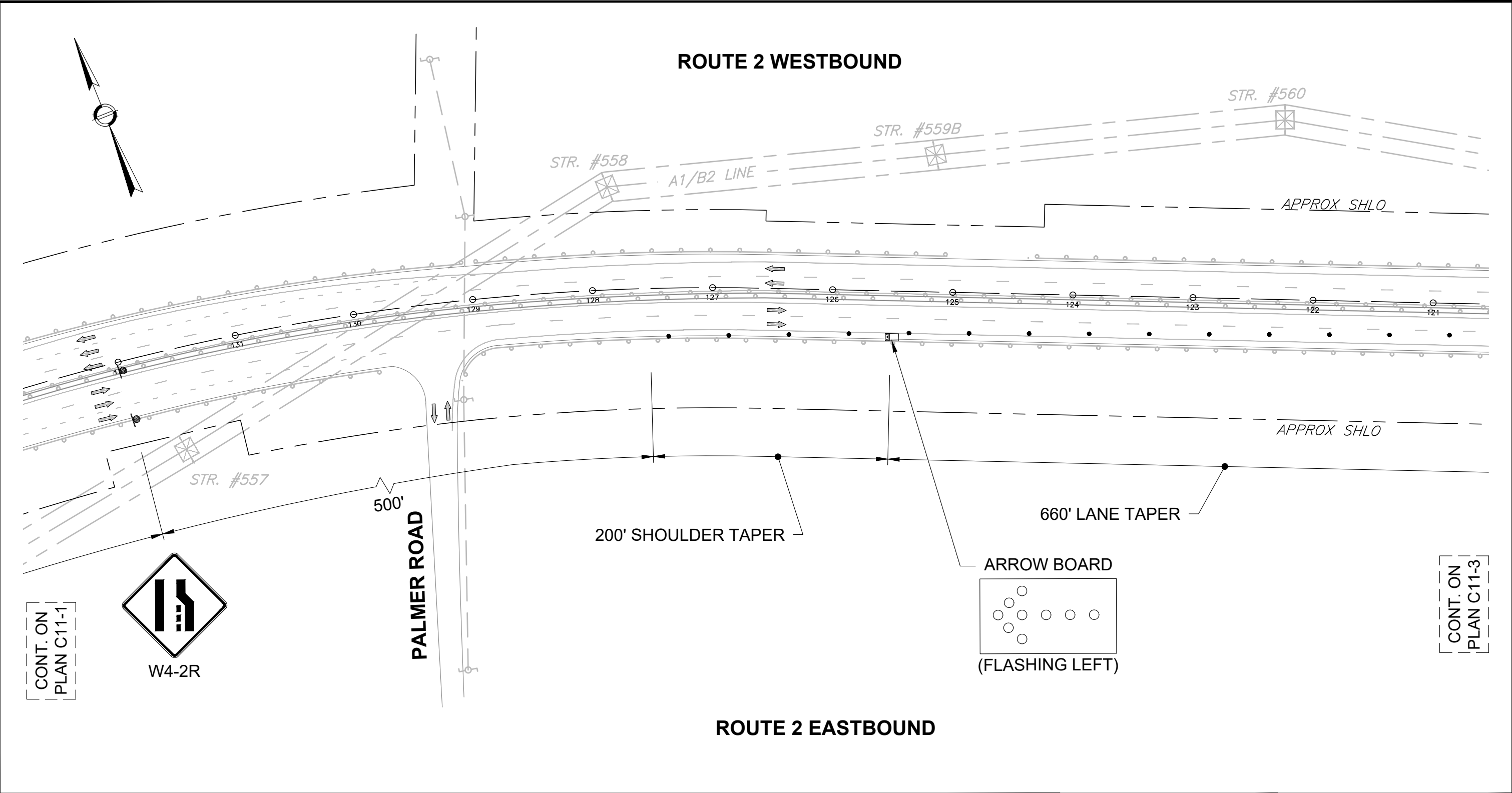
PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT

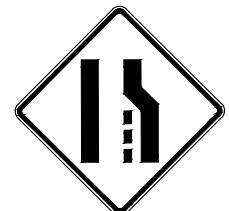
1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C11-1
 REV. DATE: 05/15/2025 SHEET NO.: 71 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C11.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSPOFFORD



CONT. ON
 PLAN C11-1



W4-2R

CONT. ON
 PLAN C11-3

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #11
ROUTE 2 EASTBOUND/WESTBOUND
FITCHBURG

PREPARED FOR:



170 Data Drive
 Waltham, Massachusetts
 02451

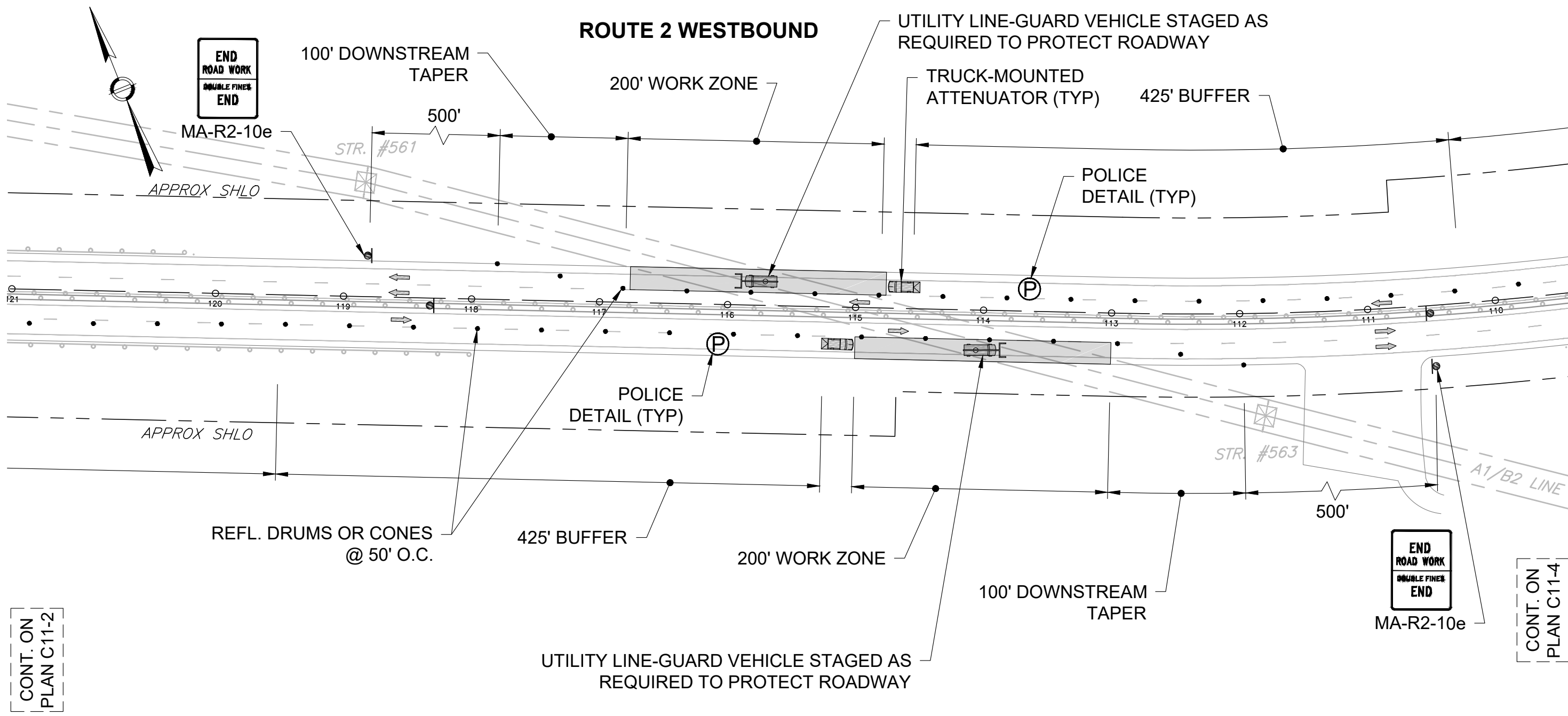
PREPARED BY:



1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C11-2
 REV. DATE: 05/15/2025 SHEET NO.: 72 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C11.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FF0RD



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
 SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

ROUTE 2 EASTBOUND

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #11
ROUTE 2 EASTBOUND/WESTBOUND
FITCHBURG

PREPARED FOR:

nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

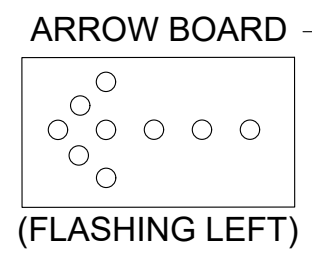
JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C11-3
 REV. DATE: 05/15/2025 SHEET NO.: 73 of 81

CONT. ON
PLAN C11-2

CONT. ON
PLAN C11-4

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C11.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSPOFFORD

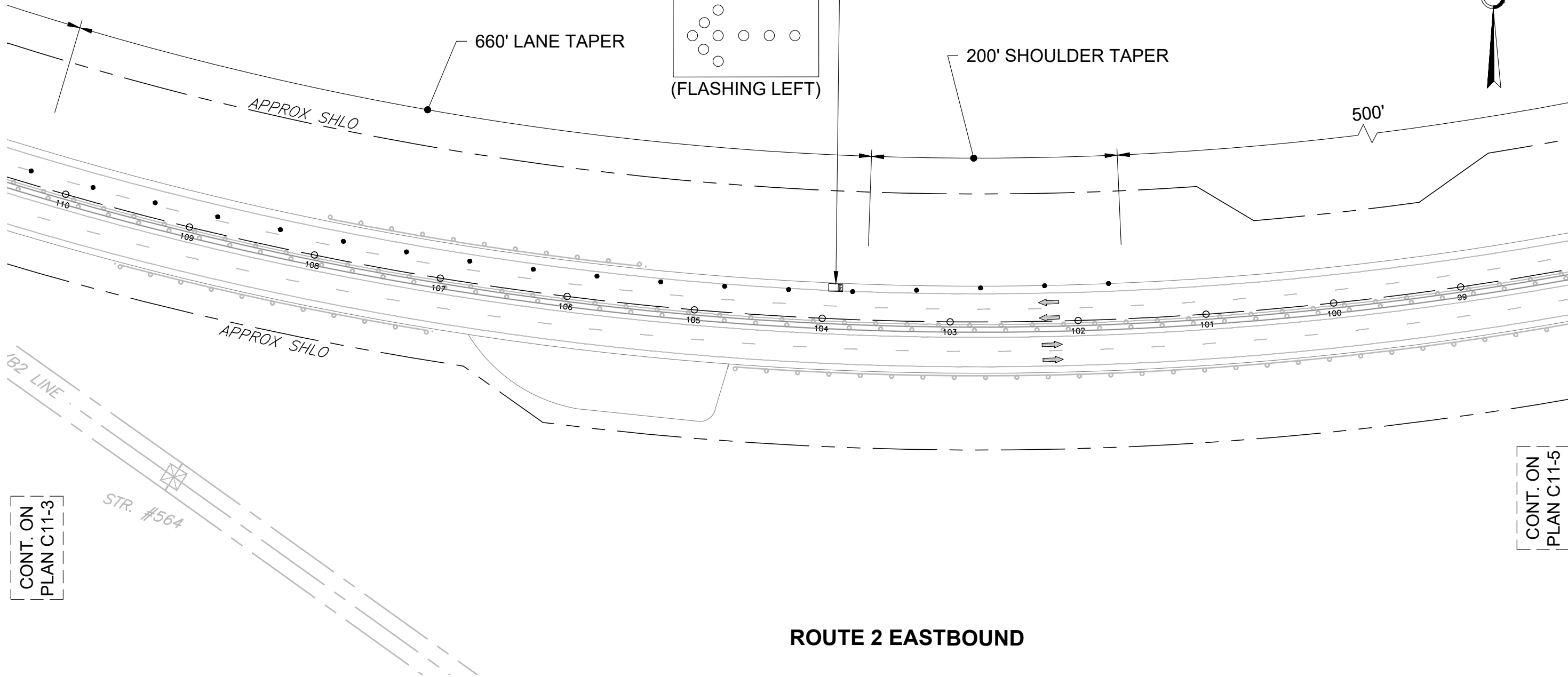
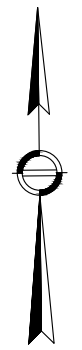
ROUTE 2 WESTBOUND



660' LANE TAPER

200' SHOULDER TAPER

500'



ROUTE 2 EASTBOUND

CONT. ON
PLAN C11-3

CONT. ON
PLAN C11-5

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT

Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #11 ROUTE 2 EASTBOUND/WESTBOUND FITCHBURG

PREPARED FOR:

nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

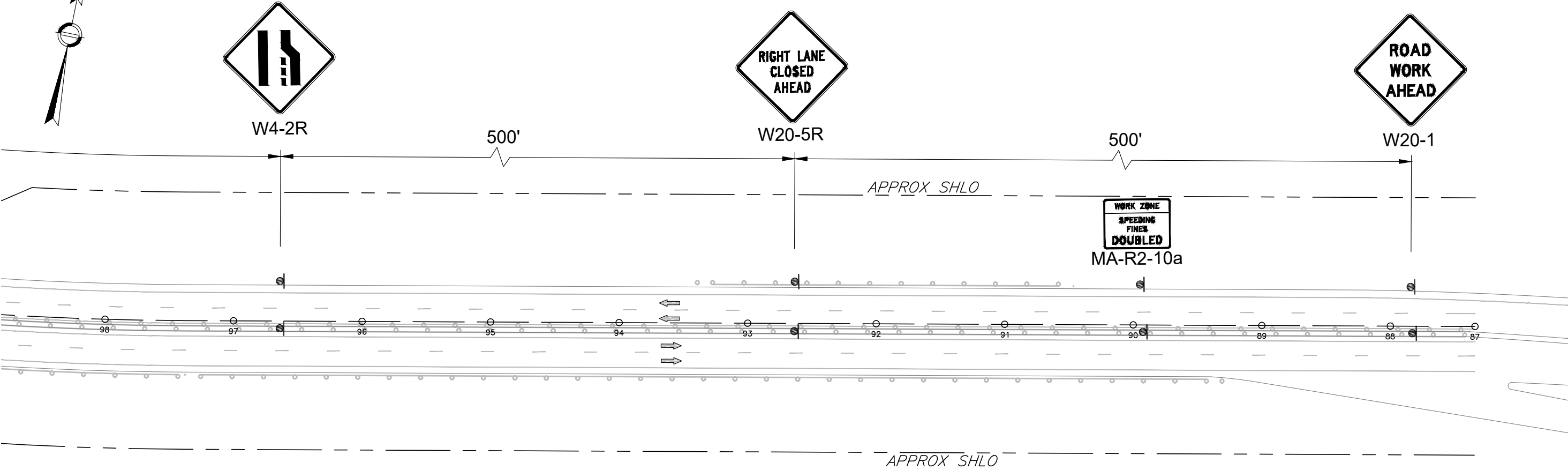
PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C11-4
 REV. DATE: 05/15/2025 SHEET NO.: 74 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C11.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSPOFFORD

ROUTE 2 WESTBOUND



CONT. ON
 PLAN C11-4

ROUTE 2 EASTBOUND

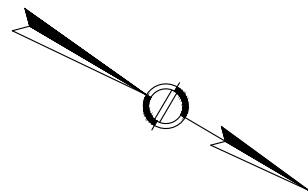
A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
HIGHWAY CROSSING #11
ROUTE 2 EASTBOUND/WESTBOUND
FITCHBURG

PREPARED FOR:
nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

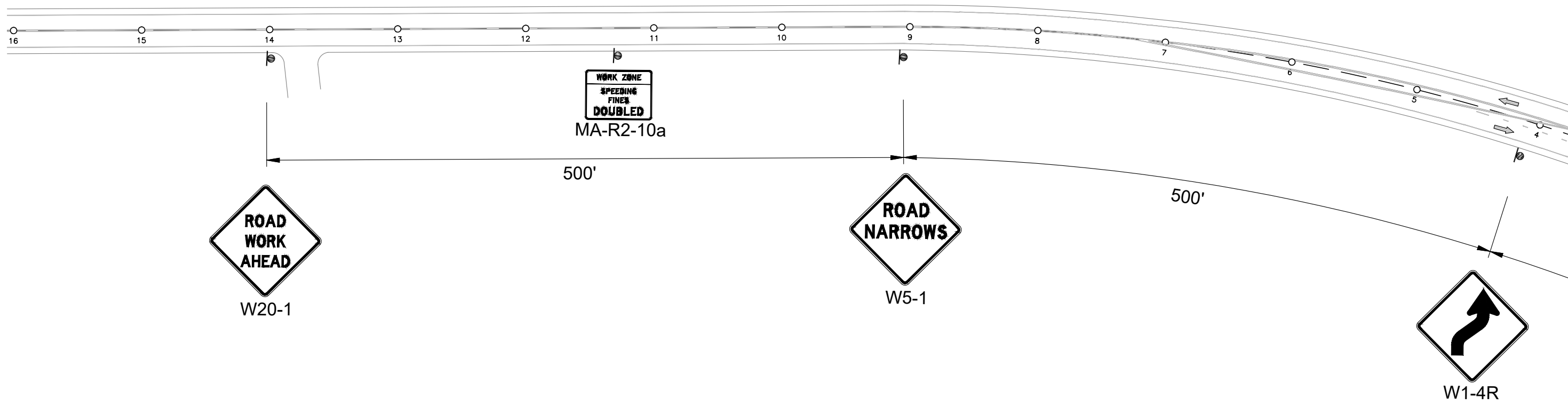
PREPARED BY:
BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C11-5
 REV. DATE: 05/15/2025 SHEET NO.: 75 of 81



CENTRAL STREET (ROUTE 12)

CONT. ON
PLAN C12-2



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #12
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C12-1
 REV. DATE: 05/15/2025 SHEET NO.: 76 of 81

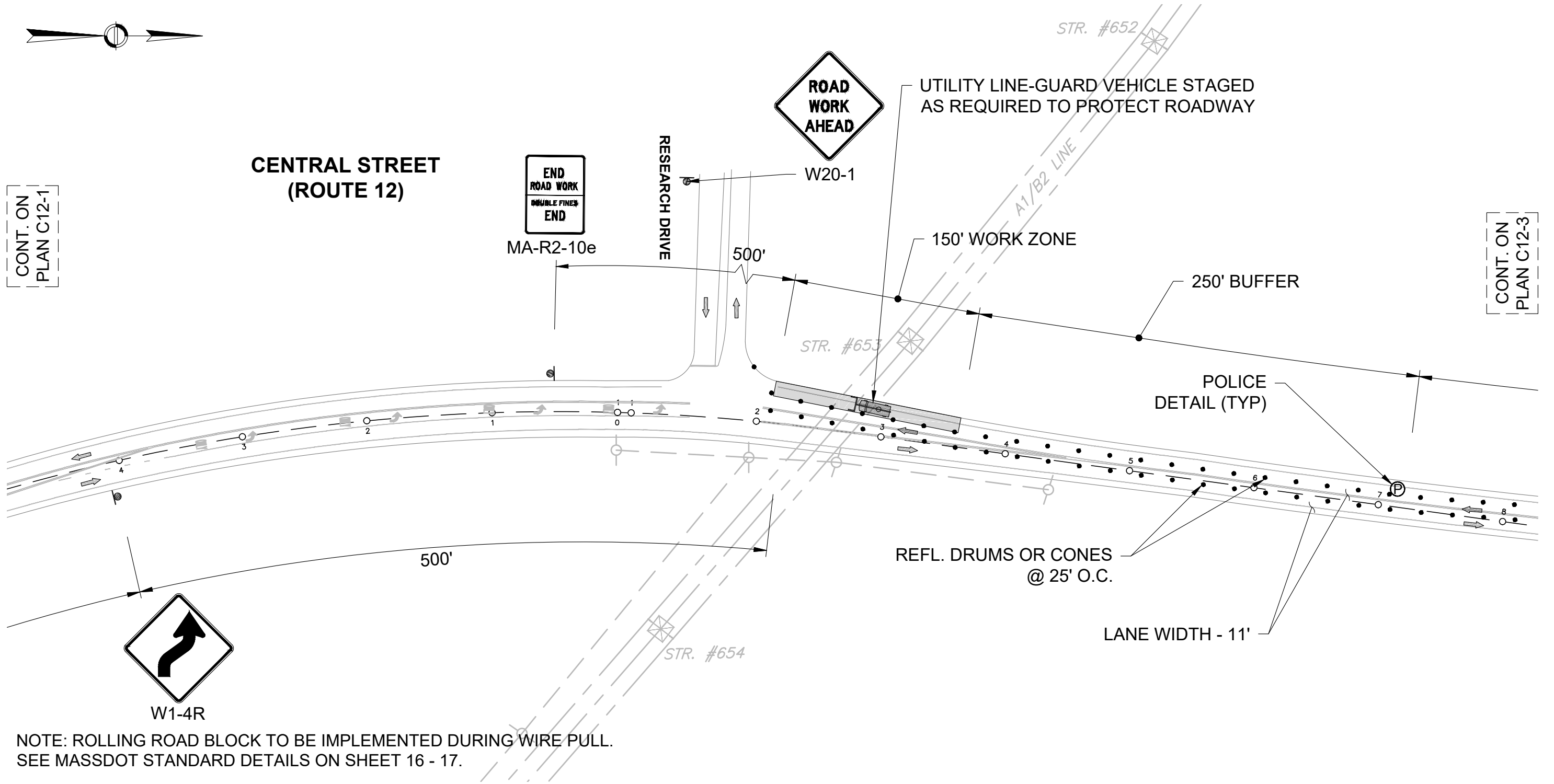
Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C12.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSPOFFORD



CENTRAL STREET (ROUTE 12)

CONT. ON
PLAN C12-1

CONT. ON
PLAN C12-3



NOTE: ROLLING ROAD BLOCK TO BE IMPLEMENTED DURING WIRE PULL.
SEE MASSDOT STANDARD DETAILS ON SHEET 16 - 17.

A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #12
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

PREPARED BY:

BSC GROUP
BUILD | SUPPORT | CONNECT
1 Mercantile Street
Worcester, MA
01608

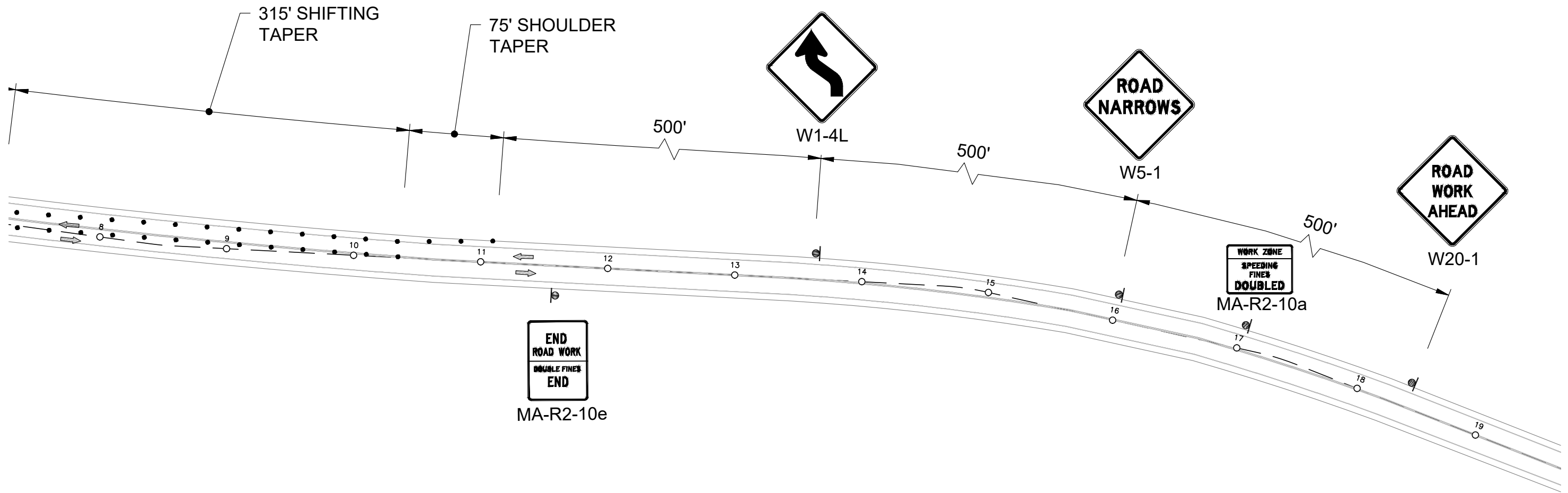
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ISSUE DATE: 01/16/2024 PLAN NO.: C12-2
REV. DATE: 05/15/2025 SHEET NO.: 77 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C12.dwg
Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FF0RD



CENTRAL STREET (ROUTE 12)

CONT. ON
PLAN C12-2



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS

HIGHWAY CROSSING #12
CENTRAL STREET (ROUTE 12)
LEOMINSTER

PREPARED FOR:

nationalgrid
 170 Data Drive
 Waltham, Massachusetts
 02451

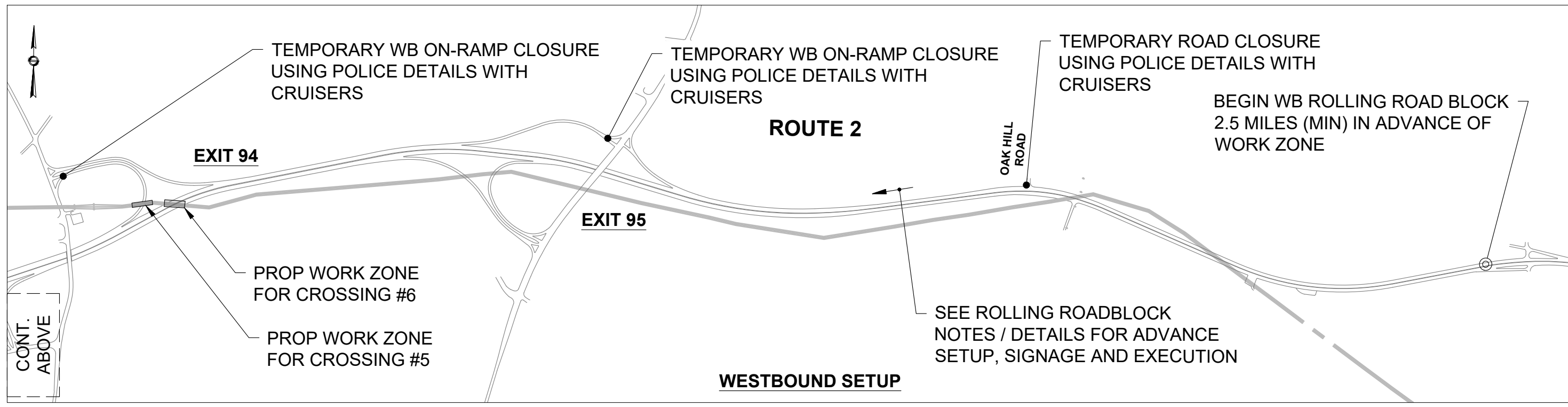
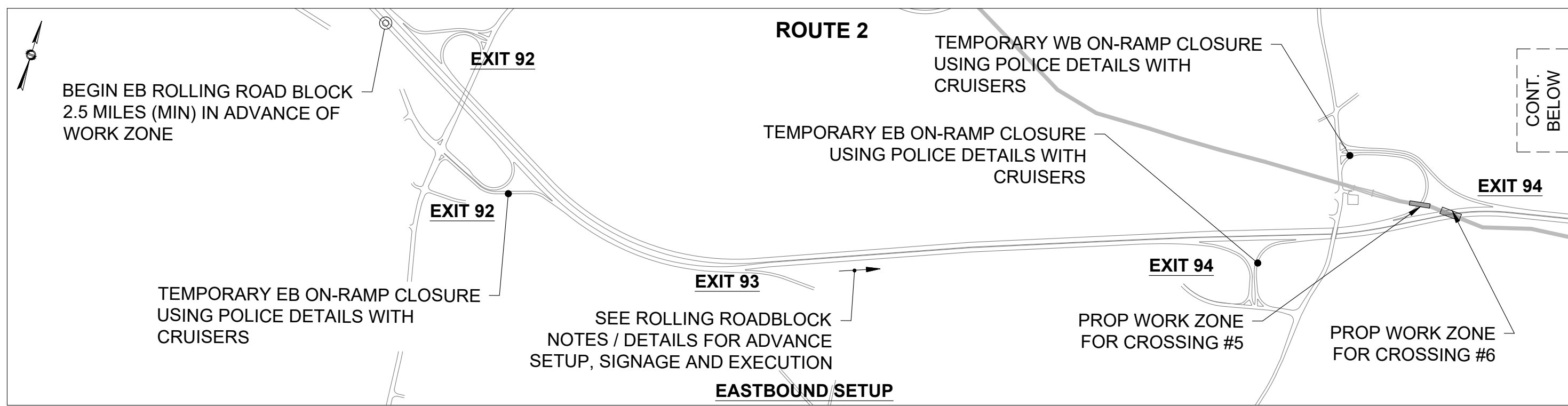
PREPARED BY:

BSC GROUP
 BUILD | SUPPORT | CONNECT
 1 Mercantile Street
 Worcester, MA
 01608

JOB NO.: 89620.66 SCALE: 1" = 80'
 ISSUE DATE: 01/16/2024 PLAN NO.: C12-3
 REV. DATE: 05/15/2025 SHEET NO.: 78 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Crossing Plans\8962066 - MASSDOT - TMP Crossing - C12.dwg
 Plotted on: Thursday, May 15, 2025 - 9:15am by KSP0FFORD

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA Rolling Road Block Plans\8962066 - MASSDOT - RRB4.dwg
Plotted on: Thursday, May 15, 2025 - 9:16am by KSPORFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

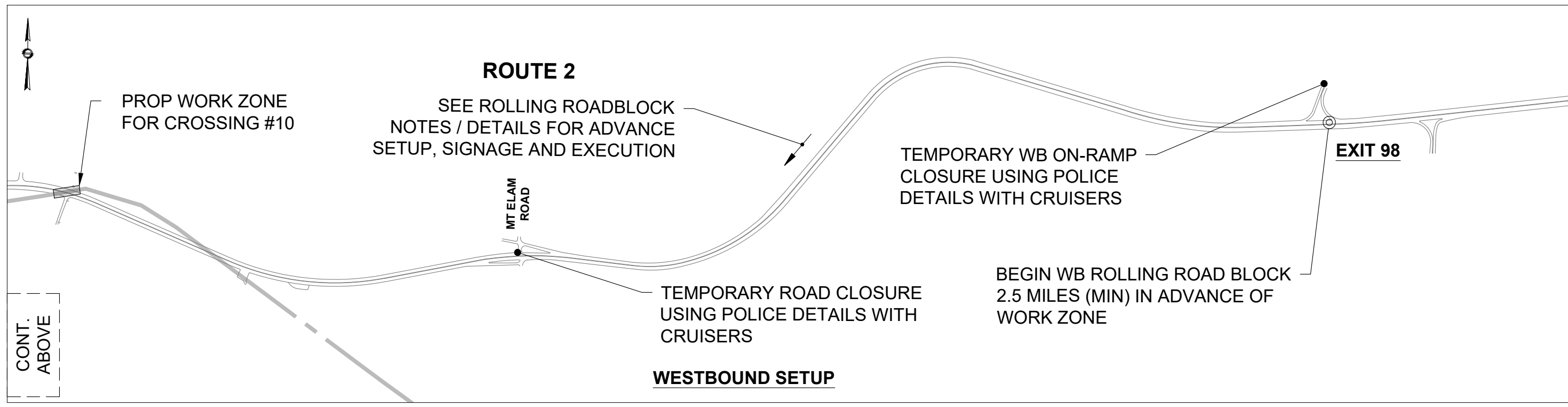
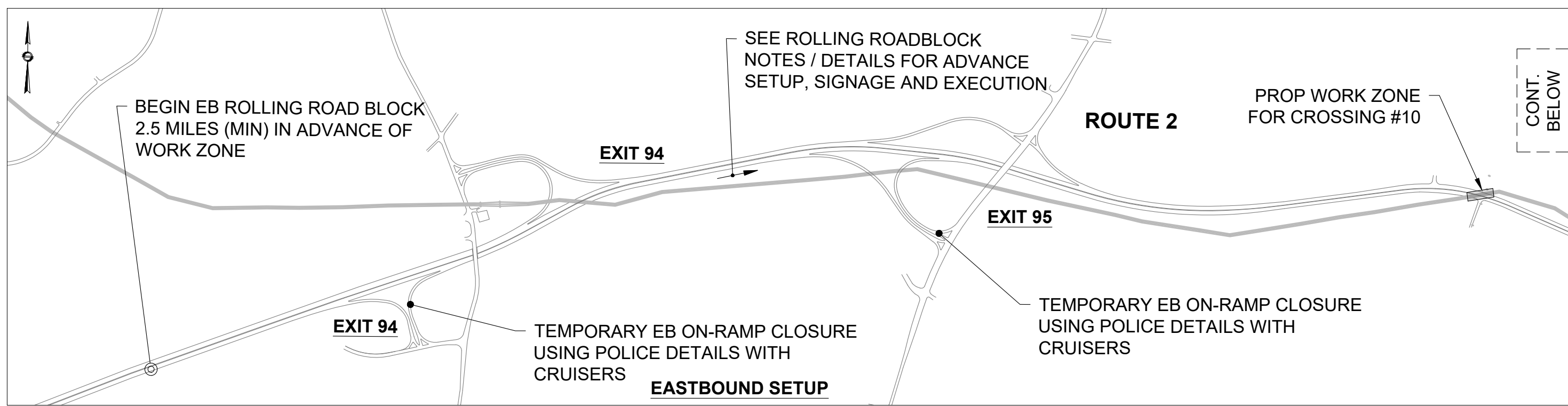
TEMPORARY TRAFFIC CONTROL PLANS
ROLLING ROAD BLOCK PLAN - CROSSINGS 5 & 6
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG

PREPARED FOR:
nationalgrid
170 Data Drive
Waltham, Massachusetts
02451

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1 Mercantile Street
Worcester, MA
01608

JOB NO.: 89620.66 SCALE: 1" = 1000'
ISSUE DATE: 01/16/2024 PLAN NO.: RRB-1
REV. DATE: 05/15/2025 SHEET NO.: 79 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA Rolling Road Block Plans\8962066 - MASSDOT - RRB6.dwg
Plotted on: Thursday, May 15, 2025 - 9:16am by KSPORFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

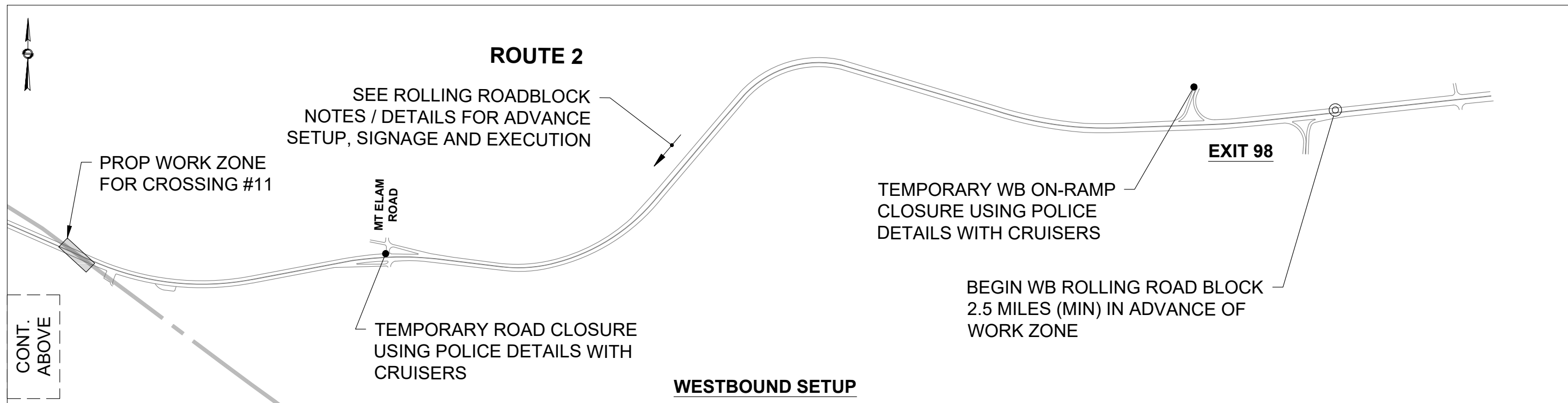
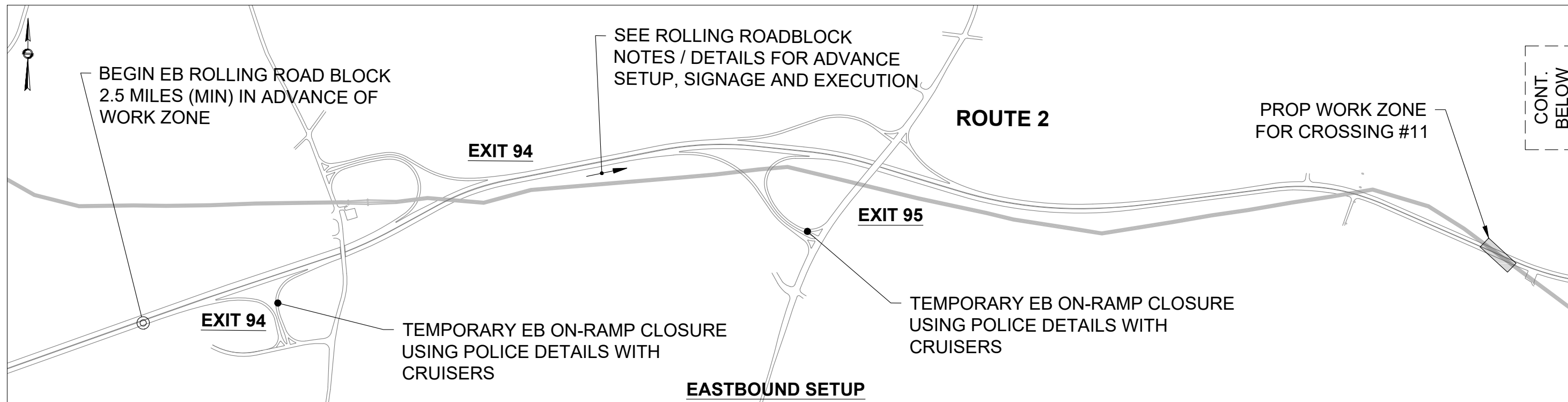
TEMPORARY TRAFFIC CONTROL PLANS
ROLLING ROAD BLOCK PLAN - CROSSING 10
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG/LEOMINSTER

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170 Data Drive
Waltham, Massachusetts
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JOB NO.: 89620.66 SCALE: 1" = 1000'
ISSUE DATE: 01/16/2024 PLAN NO.: RRB-2
REV. DATE: 05/15/2025 SHEET NO.: 80 of 81

Drawing name: P:\8962066\Transportation\Drawings\Progress\3 - Structure Construction Phase - MA\Rolling Road Block Plans\8962066 - MASSDOT - RRB7.dwg
 Plotted on: Thursday, May 15, 2025 - 9:16am by KSP0FFORD



A1/B2 LINE ASSET CONDITION REFURBISHMENT PROJECT
 Warwick/Royalston/Winchendon/Gardner/Westminster/Fitchburg/Leominster/Sterling/Athol, Massachusetts

TEMPORARY TRAFFIC CONTROL PLANS
ROLLING ROAD BLOCK PLAN - CROSSING 11
ROUTE 2 EASTBOUND/WESTBOUND
WESTMINSTER/FITCHBURG/LEOMINSTER

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JOB NO.: 89620.66 SCALE: 1" = 1000'
 ISSUE DATE: 01/16/2024 PLAN NO.: RRB-3
 REV. DATE: 05/15/2025 SHEET NO.: 81 of 81