



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: CWF Submitted by: Chelsey Little

Item/Project Cost: \$48,500 Date Prepared: 10/28/2024

Item/Project Title: Conference Room/Break Room Renovation (Main Generator Project Phase-Two)

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$48,500**, or any other amount, for the purpose of **conducting a conference room and breakroom renovation**, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

Breakroom

Mini-Split:.....	\$5,000
Drop Ceiling:.....	\$3,000
Exterior Wall Repairs (from old louver and double door):.....	\$5,000
New Exterior Insulated Door:.....	\$2,500
Breakroom Kitchen:.....	\$11,500
Tile Floors:.....	\$2,500
Asbestos Removal:.....	\$10,000
Total:.....	\$39,500

Conference Room

Conference Table ~120"x48":.....	\$3,000
Chairs x10:.....	\$1,500
File Cabinets x5:.....	\$1800
Paper Plans/Maps Cabinet:.....	\$300
Total:.....	\$6,600

Contingency 5%:.....\$2,305

Grand Total:.....\$48,405 → Rounded to **\$48,500**

Scoping Questions

Please elaborate in the comments box at bottom of the page

Yes

No

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

(From Original Project)

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The CWF will oversee procurement and execution of the project.

Why is it essential that the Town makes this investment now?

This project is considered phase two of the Main Generator replacement project, where after the main generator has been removed from the room in the Administration Building, the room will be converted into a useable space for staff.

Converting the old generator room would alleviate two issues by:

- creating a larger updated staff breakroom space
- provide a much-needed conference/meeting room for the facility (Staff currently shares the breakroom as an impromptu meeting room space)

As the old generator room has a larger footprint than the current break room, it will be turned into the new staff breakroom. The old staff breakroom will be converted into a conference/meeting room space with additional file storage.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

0

Highly Important



Moderately Important

0

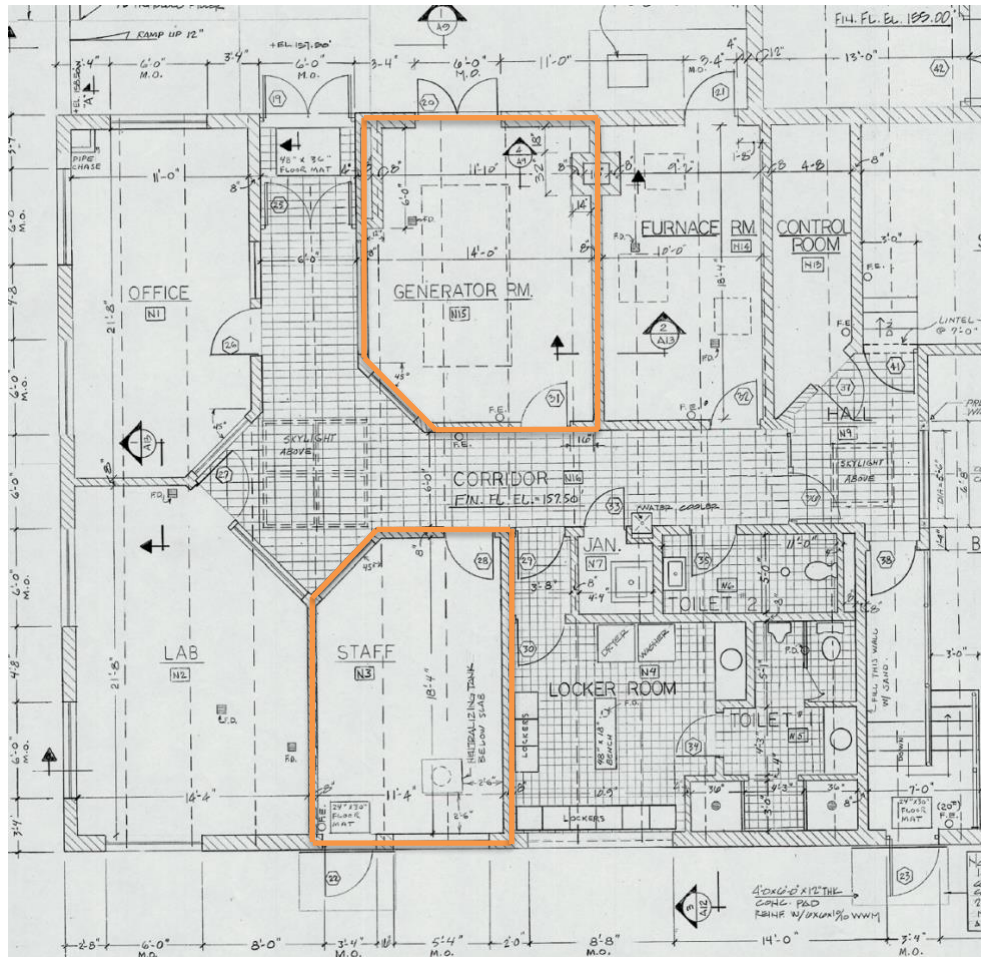
Comments and additional information:

Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Generator Room → New Break Room





Staff Breakroom → Conference Room



Special Article Request: Capital Expense (rev 9.26.24)



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Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: CWF Submitted by: Chelsey Little

Item/Project Cost: \$60,000 Date Prepared: 10/28/2024

Item/Project Title: Excavator (used)

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$60,000**, or any other amount, for the purpose of **procuring an excavator** including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

Mini/Small Excavator (used):.....\$60,000

Total:.....\$60,000

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The CWF will oversee procurement and execution of the project.

Why is it essential that the Town makes this investment now?

The CWF performs many on-site and off-site routine updates and special projects requiring the use of an excavator. The facility is also responsible for managing its own groundskeeping, excavation, and lifting work when necessary. The CWF has borrowed other municipal excavators and spent over \$25,000 on the rental of a small excavator to perform site work on multiple projects for calendar year 2024, and would rather invest that money in the future into purchasing a used excavator to have on site consistently.

NOTE: The facility is not looking to purchase a brand-new excavator, as a used/low hour machine will suffice for the required applications.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

0

0



Comments and additional information:

Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Example of Requested Excavator

2017 VOLVO ECR88D



USD ▾ **USD \$57,500**

Machine Location: [60 State Rd, Phillipston, Massachusetts 01331](#)

Seller Information

BROOKSIDE EQUIPMENT (978) 249-4600

Contact: Sales

Phillipston, Massachusetts
01331



[Hide Thumbnails](#)

Description

24" bucket, hydraulic thumb, cab w/ a/c, 7'7" blade, 4 cyl Volvo turbo, roadliner pads, swing boom, 21k lbs



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Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: CWF Submitted by: Chelsey Little

Item/Project Cost: \$30,000 Date Prepared: 10/28/2024

Item/Project Title: Pump Station Portable Generator Replacement

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$30,000**, or any other amount, for the purpose of **replacing the pump station portable generator**, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

30 kW 3-Phase Portable Generator:.....\$30,000

Total:.....\$30,000

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The CWF will oversee procurement and execution of the project.

Why is it essential that the Town makes this investment now?

The current back-up portable generator is circa 1981 and is overdue for replacement. A recent inspection performed by the service technician, PowerGen Technologies LLC, has recommended replacement as parts on the 1981 generators have become obsolete and cannot be replaced if the generators fail. DEP/MGL also requires operable and serviceable generators at all wastewater pumping stations in order to prevent a backup and discharge of untreated sewage during power outages. The portable generator is a redundant back-up power supply to any out of service fixed generators located at any of the eight (8) pump stations.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

0



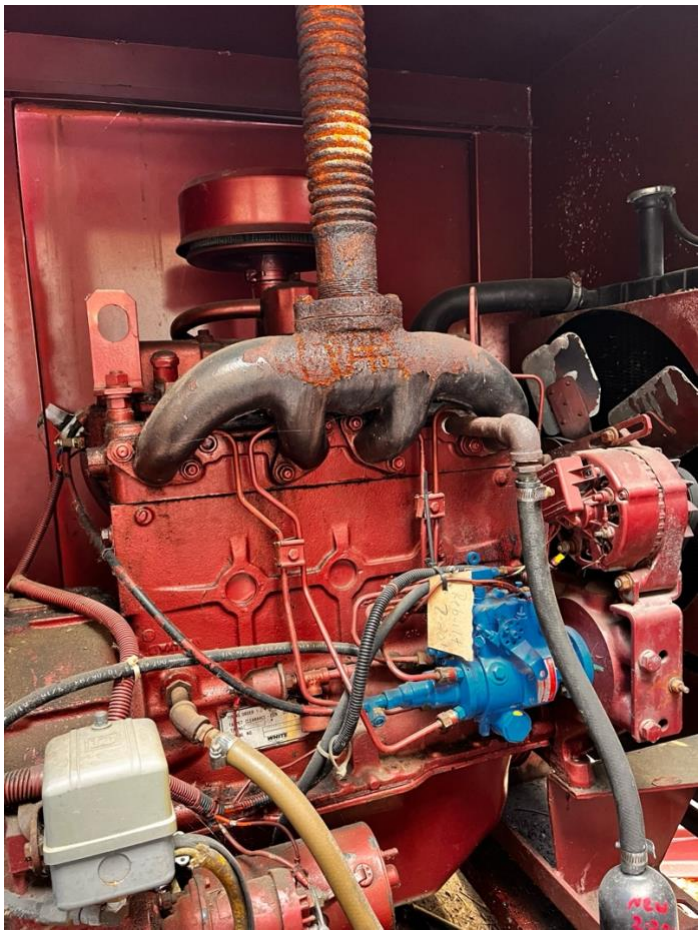
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Comments and additional information:

Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

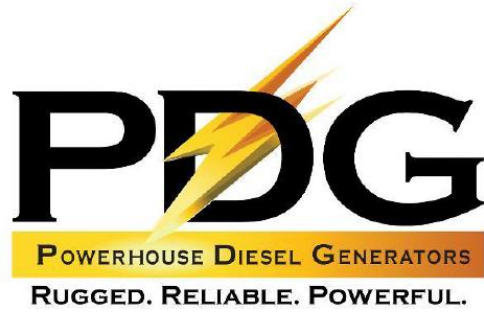
Current Portable Generator



Quotation

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR
 VALDOSTA, GA 31601-7094
 PHONE: (229)-671-9171
 WWW.PDGPPOWER.COM



Estimate

Order #	Date
S15440	10/02/2024

Bill To:
POWERGEN TECHNOLOGIES 44 Hopyard Rd Stafford Springs, CT 06076

Ship To:
POWERGEN TECHNOLOGIES 44 Hopyard Rd Stafford Springs, CT 06076

Customer: POWERGEN TECHNOLOGIES

Contact: POWERGEN TECHNOLOGIES

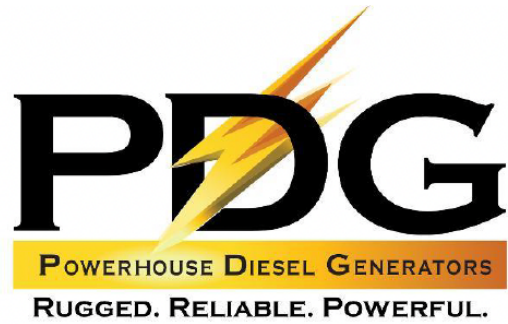
Sales Rep	Carrier	Ship Service	Estimated Tax
Elias Serrano	DELIVER		\$ 0.00

Description	Unit Price	Qty Ordered	Total Price
30 KW 3 PHASE OPEN FRAME GENERATOR - EPA CERTIFIED FOR EMERGENCY STANDBY USE PERKINS 404D-22TG Turbo After Cooled Diesel Engine - 12 Volt System - 1000 Amp Marine Grade Battery - Low Oil Pressure & High Coolant Temp Shutdowns are Standard - CK-4 Spec 15-40 Diesel Oil & 50/50 Engine Coolant Included - Remote Oil Drain Valve Installed with Hose - Industrial Grade Aluminized Exhaust Muffler - Assembled, Wired, & Mounted on Steel Cross Members with Anti-Vibration Motor Mounts	\$12,068.00	1 ea	\$ 12,068.00
THREE PHASE - 208 VOLT	\$0.00	1 ea	\$ 0.00
MAIN DISCONNECT BREAKER - 100 Amp 3 Pole 208 Volt NEMA 1 Installed, Wired	\$389.00	1 ea	\$ 389.00
ComAP AMF5	\$495.00	1 ea	\$ 495.00
REMOTE EMERGENCY STOP BUTTON	\$39.99	1 ea	\$ 39.99
COLD WEATHER PACKAGE 12V 750W - MOBILE Includes: •ComAp 12V Battery InteliCharger •Block Heater 750W •Noco AC Port Receptacle	\$648.00	1 ea	\$ 648.00
ENCLOSURE - LEVEL 1 ACOUSTIC - Industrial Grade Powder Coated Aluminum Enclosure with Steel Skid - UL-94, MVSS 302, & HF-1 Certified, Foil Backed, Level 1 Sound Attenuating Acoustic Foam Installed. - Large Access Doors with Locks for Security and Ease of Maintenance - All Stainless Steel Latches and Hardware - Includes Locking Door for Key Start or Auto Controller	\$3,295.00	1 ea	\$ 3,295.00

A1

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR
 VALDOSTA, GA 31601-7094
 PHONE: (229)-671-9171
 WWW.PDGPOWER.COM



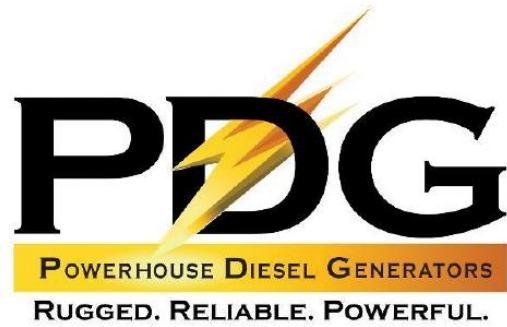
Estimate

Order #	Date
S15440	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
RODENT GUARD PACKAGE • Safeguards Generator from Entry and Damage by Rodents, Snakes, and Birds • Protects Intake & Exhaust Ports, Fork Pockets, and Any Points of Entry in the Enclosure or Skid	\$219.00	1 ea	\$ 219.00
DOT FUEL TANK - 50 GALLON SINGLE WALL Sub-Base Fuel Tank Manufactured to DOT Compliant Standards - Industrial Powder Coated 11 Gauge Steel - Reinforced with Internal Structural Supports & Baffles - Forged UL Compliant Fittings - (Pickup, Return, Fill, Vent)	\$2,635.00	1 ea	\$ 2,635.00
Includes 1 quart of DIESEL MATE™ ALL SEASONS ADDITIVE (Treats 250 Gallons)			
External Coolant Drain- Flanged to Pass Through Frame or Skid	\$249.00	1 ea	\$ 249.00
External Oil Drain- Flanged to Pass Through Frame or Skid	\$249.00	1 ea	\$ 249.00
PDG HD GENSET TRAILER - SINGLE AXLE with BRAKES D.O.T. CERTIFIED - Single 5,200# Torsion Axle with Electric Brakes - 2" Ball Receiver - Drop Leg Tongue Jack - 15" Wheels & Tires - Fenders, License Plate Mount, & DOT Compliant Lights - Includes Certificate of Origin / Title GVWR: 5,200#	\$5,949.00	1 ea	\$ 5,949.00
ESTIMATED OUTBOUND FREIGHT CHARGES - HOTSHOT Shipping Charges are ESTIMATED at Time of Quotation and May be Higher at Time of Shipping. ACTUAL SHIPPING CHARGE will be Finalized at Time of Shipment. Any Difference will be added to Final Invoice.	\$1,595.00	1 ea	\$ 1,595.00
THIS IS A HOTSHOT FREIGHT DELIVERY * YOU MUST HAVE PROPER EQUIPMENT TO SAFELY REMOVE THE GENERATOR FROM THE DELIVERY VEHICLE OR TRAILER AT THE TIME OF ARRIVAL.			
WARRANTY KUBOTA KUBOTA ENGINE WARRANTY 3 YEARS / 3,000 HOURS CONTACT SALES CONSULTANT FOR MORE DETAILS	\$0.00	1 hr	\$ 0.00

Powerhouse Diesel Generators

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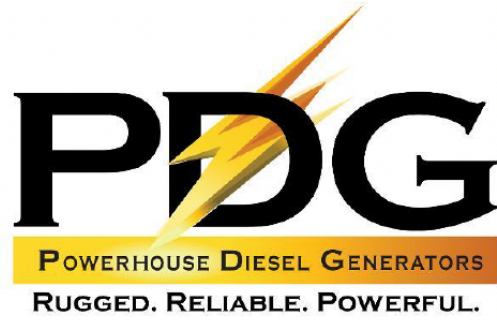
Estimate

Order #	Date
S15440	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
PDG EXTRANEIOUS COMPONENTS WARRANTY PDG Industrial - Extraneous Components Warranty PDG warrants the following components for a period of one year from date of delivery to original owner: Enclosures, Fuel Tanks, Meters & Gauges, Timers, Block Heaters, and Auto-Controllers. This warranty is handled by Powerhouse Diesel Generators LEAD TIME ESTIMATES ARE CALCULATED TO PROJECT BUILD TIME AND APPROXIMATE SHIP DATE. LEAD TIMES DO NOT INCLUDE TRANSIT/DELIVERY TIME. LEAD TIME STARTS UPON RECEIPT OF PAYMENT. Lead time estimates are not guaranteed, and are sometimes at the mercy of our supply chain as well as circumstances beyond our control. Feel free to contact us for a more accurate assessment of production time. -Quotes Are Valid For 30 Days- 13 - 15 WEEKS ESTIMATED PRODUCTION LEAD TIME.	\$0.00	1 hr	\$ 0.00
COVID STATEMENT We have all seen many changes in the status of the coronavirus situation in the past months, weeks, and days. Even though the outbreak is abating, it can and does occasionally have an impact on our supply chains and shipping. PDG, Inc, however, will do everything possible to meet the estimated completion times for your generator. PDG, Inc will continue to communicate regularly with our suppliers and shippers, to closely monitor all developments and keep you informed of any changes that may impact the delivery of our products. Please understand that problems and delays with supply, production, or shipping related to COVID are beyond our control. Thank you for your patience in these trying times. The Staff of Powerhouse Diesel Generators, Inc.	\$0.00	1 hr	\$ 0.00
TERMS: A 50% deposit is required to begin processing your order. Balance is Due 7 Business Days Before Shipping.	\$0.00	1 ea	\$ 0.00

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR
VALDOSTA, GA 31601-7094
PHONE: (229)-671-9171
WWW.PDGPPOWER.COM



Estimate

Order #	Date
S15440	10/02/2024

Subtotal:	\$27,830.99
AVATAX:	\$0.00
Total:	\$27,830.99
Paid:	\$0.00
Balance Due:	\$27,830.99

RECEIPT OF YOUR PAYMENT CONSTITUTES ACCEPTANCE OF THE ITEMS, SPECIFICATIONS, AND TERMS AS DESCRIBED ON THIS INVOICE. . PDG, Inc. does not offer refunds on custom CAD design fees, custom fabrication, powder coating, or custom items that are requested by th
Approval: _____ Date: _____



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: CWF Submitted by: Chelsey Little

Item/Project Cost: \$37,800 Date Prepared: 10/28/2024

Item/Project Title: Pump Station Generator Replacement

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$37,800**, or any other amount, for the purpose of **replacing a pump station generator**, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

45 kW 3-Phase Generator:.....	\$25,000
Electrical Contractor:.....	\$6,000
Site Work/Demolition:.....	\$5,000
Contingency 5%:.....	\$1,800
Total:.....	\$37,800

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The CWF will oversee procurement and execution of the project.

Why is it essential that the Town makes this investment now?

As part of the planned continuation of the nine (9) pump station generator replacements, this generator serves the Lake Pleasant Rd pump station in Lake Pleasant and is circa 1981. The current generator at this station was originally a portable generator that was made semi-permanent due to a previously failed stationary generator.

An inspection performed by the service technician, PowerGen Technologies LLC, has recommended replacement as parts on the 1981 generators have become obsolete and cannot be replaced if the generators fail. DEP/MGL also requires operable and serviceable generators at all wastewater pumping stations in order to prevent a backup and discharge of untreated sewage during power outages.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important



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Comments and additional information:

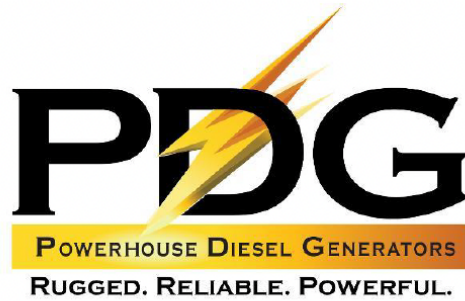
Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Quotation

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR
 VALDOSTA, GA 31601-7094
 PHONE: (229)-671-9171
 WWW.PDGPPOWER.COM



Estimate

Order #	Date
S15439	10/02/2024

Bill To:
POWERGEN TECHNOLOGIES 44 Hopyard Rd Stafford Springs, CT 06076

Ship To:
POWERGEN TECHNOLOGIES 44 Hopyard Rd Stafford Springs, CT 06076

Customer: POWERGEN TECHNOLOGIES

Contact: POWERGEN TECHNOLOGIES

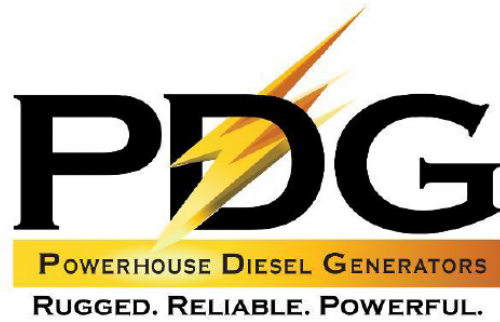
Sales Rep	Carrier	Ship Service	Estimated Tax
Elias Serrano	DELIVER		\$ 0.00

Description	Unit Price	Qty Ordered	Total Price
45 KW 3 PHASE OPEN FRAME GENERATOR - EPA CERTIFIED FOR EMERGENCY STANDBY USE PERKINS 1104D-44TG1 Turbo Diesel Engine - Remote Oil Drain Valve Installed with Hose - CK-4 Spec 15-40 Diesel Oil & 50/50 Engine Coolant Included - 1000 Amp Marine Grade Starting Battery - Residential Grade Aluminized Automotive Muffler - Assembled, Wired, & Mounted on a Steel Skid with Anti-Vibration Motor Mounts - Low Oil Pressure & High Coolant Temp Shutdowns are Standard	\$14,489.00	1 ea	\$ 14,489.00
THREE PHASE - 208 VOLT	\$0.00	1 ea	\$ 0.00
MAIN DISCONNECT BREAKER - 150 Amp 3 Pole 208 Volt NEMA 1	\$935.50	1 ea	\$ 935.50
ComAP AMF5	\$495.00	1 ea	\$ 495.00
REMOTE EMERGENCY STOP BUTTON	\$39.99	1 ea	\$ 39.99
COLD WEATHER PACKAGE 12V 750W - STATIONARY Includes: •ComAp 12V Battery IntelliCharger •Block Heater 750W •20A GFCI Receptacle w/ Nema 3R Cover	\$648.00	1 ea	\$ 648.00
ENCLOSURE - LEVEL 1 ACOUSTIC - Industrial Grade Powder Coated Aluminum Enclosure with Steel Skid - UL-94, MVSS 302, & HF-1 Certified, Foil Backed, Level 1 Sound Attenuating Acoustic Foam Installed. - Large Access Doors with Locks for Security and Ease of Maintenance - All Stainless Steel Latches and Hardware - Includes Locking Door for Key Start or Auto Controller	\$3,489.00	1 ea	\$ 3,489.00

A2

Powerhouse Diesel Generators

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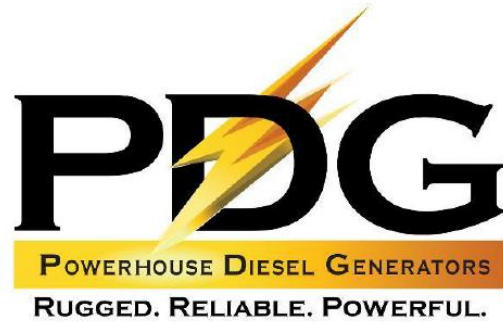
Estimate

Order #	Date
S15439	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
RODENT GUARD PACKAGE • Safeguards Generator from Entry and Damage by Rodents, Snakes, and Birds • Protects Intake & Exhaust Ports, Fork Pockets, and Any Points of Entry in the Enclosure or Skid	\$219.00	1 ea	\$ 219.00
FUEL TANK - 50 GALLON DOUBLE WALL Powder Coated 11 Gauge Steel Reinforced with Internal Structural Supports & Baffles Forged UL Compliant Fittings	\$2,389.00	1 ea	\$ 2,389.00
ESTIMATED OUTBOUND FREIGHT CHARGES - HOTSHOT Shipping Charges are ESTIMATED at Time of Quotation and May be Higher at Time of Shipping. ACTUAL SHIPPING CHARGE will be Finalized at Time of Shipment. Any Difference will be added to Final Invoice. THIS IS A HOTSHOT FREIGHT DELIVERY * YOU MUST HAVE PROPER EQUIPMENT TO SAFELY REMOVE THE GENERATOR FROM THE DELIVERY VEHICLE OR TRAILER AT THE TIME OF ARRIVAL. DEDICATED HOT SHOT DELIVERY	\$1,395.00	1 ea	\$ 1,395.00
PERKINS ENGINE WARRANTY - STANDBY PERKINS STANDBY ENGINE WARRANTY 3 YEARS UP TO 500 HOURS PER YEAR CONTACT SALES CONSULTANT FOR MORE DETAILS	\$0.00	1 ea	\$ 0.00
PDG EXTRANEIOUS COMPONENTS WARRANTY PDG Industrial - Extraneous Components Warranty PDG warrants the following components for a period of one year from date of delivery to original owner: Enclosures, Fuel Tanks, Meters & Gauges, Timers, Block Heaters, and Auto-Controllers. This warranty is handled by Powerhouse Diesel Generators	\$0.00	1 hr	\$ 0.00

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR
 VALDOSTA, GA 31601-7094
 PHONE: (229)-671-9171
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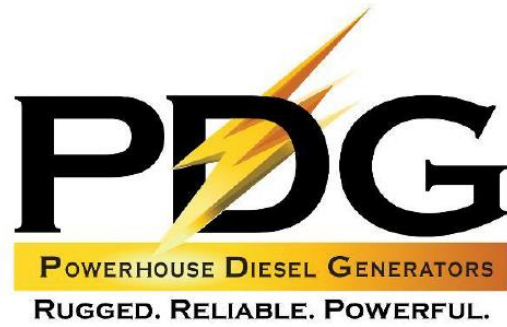
Estimate

Order #	Date
S15439	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
<p>LEAD TIME ESTIMATES ARE CALCULATED TO PROJECT BUILD TIME AND APPROXIMATE SHIP DATE. LEAD TIMES DO NOT INCLUDE TRANSIT/DELIVERY TIME. LEAD TIME STARTS UPON RECEIPT OF PAYMENT.</p> <p>Lead time estimates are not guaranteed, and are sometimes at the mercy of our supply chain as well as circumstances beyond our control. Feel free to contact us for a more accurate assessment of production time.</p> <p>-Quotes Are Valid For 30 Days-</p> <p>12 - 14 WEEKS ESTIMATED PRODUCTION LEAD TIME.</p> <p>COVID STATEMENT</p> <p>We have all seen many changes in the status of the coronavirus situation in the past months, weeks, and days. Even though the outbreak is abating, it can and does occasionally have an impact on our supply chains and shipping. PDG, Inc, however, will do everything possible to meet the estimated completion times for your generator.</p> <p>PDG, Inc will continue to communicate regularly with our suppliers and shippers, to closely monitor all developments and keep you informed of any changes that may impact the delivery of our products.</p> <p>Please understand that problems and delays with supply, production, or shipping related to COVID are beyond our control.</p> <p>Thank you for your patience in these trying times.</p> <p>The Staff of Powerhouse Diesel Generators, Inc.</p>	\$0.00	1 hr	\$ 0.00
TERMS: A 50% deposit is required to begin processing your order. Balance is Due 7 Business Days Before Shipping.	\$0.00	1 ea	\$ 0.00

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR
VALDOSTA, GA 31601-7094
PHONE: (229)-671-9171
WWW.PDGPPOWER.COM



Estimate

Order #	Date
S15439	10/02/2024

Subtotal:	\$24,099.49
AVATAX:	\$0.00
Total:	\$24,099.49
Paid:	\$0.00
Balance Due:	\$24,099.49

RECEIPT OF YOUR PAYMENT CONSTITUTES ACCEPTANCE OF THE ITEMS, SPECIFICATIONS, AND TERMS AS DESCRIBED ON THIS INVOICE. . PDG, Inc. does not offer refunds on custom CAD design fees, custom fabrication, powder coating, or custom items that are requested by th
Approval: _____ Date: _____



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: CWF Submitted by: Chelsey Little

Item/Project Cost: \$104,000 Date Prepared: 10/28/2024

Item/Project Title: Thickened Sludge Pumps Replacement x2

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$104,000**, or any other amount, for the purpose of **replacing two (2) thickened sludge pumps** including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

(2) Thickened Sludge Pumps/Rotary Press Feed Pumps (20-100GPM):... \$81,045 → rounded up to \$82,000

-includes: sensors, gauges, pressure switches, start-up/training, transportation,
and recommended spare parts

Stainless Steel Piping and Main Headers Replacement:.....\$10,000

Updated Controls:\$7,000

Contingency 5%:.....\$4902.25 → rounded up to \$5,000

Total:.....\$104,000

Scoping Questions

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work? Yes No

If yes, attach the estimate

Is there a lease option for this expense? Yes No

Will this item or project replace a capital asset?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will this create ongoing costs or savings?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will this leverage grant or other external funding?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is this request identified on the Capital Improvement Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The CWF will oversee procurement and execution of the project.

Why is it essential that the Town makes this investment now?

The CWF has historically utilized three (3) thickened sludge pumps to pump sludge from the gravity thickener and two (2) sludge holding tanks to feed liquid sludge to the press for dewatering, and/or feed liquid sludge to a 9,000-gallon tanker for disposal. Since the loss of the papermills, the facility no longer needs to utilize all three (3) pumps, needing only the use of two (2). (Redundancy is required as per MGL)

The old pumps are piston style pumps circa 1981 (drives from 2010) and are an outdated and are an extremely dangerous pump style, having exterior rotating parts which pose a death or serious injury safety risk to staff. (Mentioned in a recent Dept of Labor Standards/OSHA inspection February 2024.) This old-style pump also requires higher level of maintenance requirements as opposed to several other pump styles due to its wear parts. The typical life expectancy of a piston pump is 10-20 years, depending on how well it has been maintained and how many hours in operation.

The update will replace two (2) of the pumps with an appropriate pump style, replace some of the deteriorated piping on both the inlet and discharge sides of the pump with stainless steel, and update controls. CWF staff will procure the equipment and perform the demolition and installation of the pumps in-house. The third pump will be completely removed from service and disposed of as per Town Policy/MGL.

If the pumps are not replaced, they face imminent failure, which would prevent the facility from removing sludge/solids, which will in turn cause a significant non-compliance with permitted solids removal requirements with EPA/MA DEP.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance



Highly Important



Moderately Important



Comments and additional information:

Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Current Piston Pumps



Quote for Diaphragm Pump Style Replacement (more expensive type of pump for application)



The World Leader in Free-Disc Pumping Technology



To: Town of Montague, MA	Date: 09/05/2024	Quote No: 24137 Budget
	Project: Montague, MA WWTP	
	Quoted by: Preston Campbell	

Qty	Description	Unit Price	Total Price
	Application: Rotary Press Feed Pump, ~ 2 – 5% solids		
	Duty: 20 – 100GPM @ 10 – 15ft TDH		
	Suction: Flooded on 6" line, approximately 200ft long		
	Discharge: 6" line, 20ft vertical static		
2	6" Model 6DDSX76CNU-MK2 Penn Valley Double Disc Pump™ unit: <ul style="list-style-type: none"> • 6" ASA/ANSI 150# flanged suction and discharge connections • Cast iron housing and neoprene elastomers • Maintain-in-place hinged housing design for ease of maintenance • Two-piece swan neck design with full port rigid check valve • 7.5HP, 1160RPM 230-460/3/60 Severe duty, inverter ready motor • 140RPM Nominal pump speed achieved with V-belt and pulley drive • Suction and Discharge pulsation dampeners • 304SS Welded base with OSHA approved guards and covers • Pump and dampeners coated with industrial primer and topcoat • Per drawing PVD769 Side motor mount 	\$34,950.00	\$69,900.00
2	Model PVP420V Suction vacuum sensor and gauge assembly consisting of: 1" NPT SS316 sensor with EPDM sleeve and 4" (30" Hg-30psi) SS gauge. Mounts to top of dampener to provide indication of line pressure.	\$760.00	\$1,520.00
2	Model PVP420PS Discharge pressure switch assembly consisting of: 1" NPT SS316 sensor w/ EPDM sleeve, NEMA 4X adjustable switch and 4" (0-100psi) SS gauge. Mounts to top of dampener to protect against over pressurization. (Must be wired to pump controls.)	\$1,405.00	\$2,810.00
2	Days of start-up and training services (one-trip), provided by NE3	\$1,300.00	\$2,600.00
1	Estimated transport to site. Estimated weight of shipment is 4,000lbs.	\$725.00	\$725.00
	Optional:		
1	Set of recommended spare parts to include: two (2) discs, two (2) trunnions, one (1) check valve and one (1) set of gaskets	\$3,490.00	\$3,490.00

Commercial Information:

1. Shipment is 12 - 14 weeks after receipt of purchase order or approved submittals.
2. Submittals, if required, are 2 – 3 weeks after receipt of purchase order.
3. Freight terms are F.O.B. Factory, Warrington, PA with freight allowed to jobsite.
4. Terms are Net 30 days after receipt of invoice.
5. Quotation is valid for 60 days from date of issue.
6. Warranty is two (2) years from date of shipment for manufacturer's defects in materials and workmanship.

The following items have not been included:

- Installation
- Foundations, anchor bolts, grouting and foundation design
- Motor starters, Variable Frequency Drives (VFD's) or Controls



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW / Selectboard Submitted by: Chris Nolan-Zeller, Asst. Town Admin.

Item/Project Cost: \$ 3,000,000 Date Prepared: 10/31/2024

Item/Project Title: Phase 2 – Sewer Collection System Rehabilitation

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$3,000,000**, or any other amount, for the purpose of Priority 1 and Priority 2 work identified in the Town’s Long-Term Control Plan (LTCP), updated in 2022, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

As part of the Town’s combined sewer overflow (CSO) LTCP update, the Town contracted with the engineering firm Wright-Pierce to develop short and long-term implementation plans for improving the maintenance, operation, and condition of its wastewater collection system. The requested funding is needed to complete the work that has been designated as either Priority 1 or Priority 2 in need of completion. Completing this work within a 10-year period is a condition of the Town’s National Pollutant Discharge Elimination System (NPDES) permit, meaning that implementing this rehabilitation is the Town’s legal obligation.

This work includes the rehabilitation of 15 pipes (4,867 linear ft.) in Turners Falls, as well as 22 pipes (4,592 linear ft.) in Millers Falls, in addition to the rehabilitation of 74 manholes in Millers Falls. Phase 2 is a continuation of the ongoing Phase 1, which is expected to be completed by Spring 2025, and includes the rehabilitation of 53 manholes. Phase 1 has been funded through a \$500,000 Rural / Small Town Development Grant from the state.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The Town will contract for engineering services. Construction to be procured through bidding process in accordance with MGL c.30 §39M. Initial procurement to be managed by Assistant Town Administrator, with ongoing oversight of contractor to be handled by Public Works Superintendent.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

The Town is obligated under its NPDES permit to implement the repairs identified in the LTCP. The work identified by the project engineer as being Priority 1 or 2 is essential to the continued functionality of the Town's wastewater collection system, of which much of the current infrastructure is 75-100 years old. Currently, several areas of excessive inflow and infiltration lead to undue strain on operations by increasing the overall volume of water in the system. Especially during heavy rainfall events, this also increases the likelihood of CSO discharges, which are an environmental and health hazard, and can further expose the Town to liability for noncompliance with its NPDES permit.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

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Comments and additional information:

October 7, 2024

Mr. Walter Ramsey, Town Administrator
Town of Montague
1 Avenue A
Montague, MA 01376

**SUBJECT: Town of Montague, MA – Proposal for Professional Engineering Services
Phase 2 Sewer and Manhole Rehabilitation Project**

Dear Walter,

Wright-Pierce has previously conducted two studies of the sewer collection system and provided the following two deliverables to the Town of Montague to summarize the field investigation work and to provide rehabilitation recommendations with a planning level opinion of probable construction cost. The rehabilitation recommendations of sewer manholes and sewer pipes address structural defects and potential sources of infiltration and inflow (I/I) to the Town’s collection system.

1. Turners Falls, Lake Pleasant, and Montague Center Wastewater Collection Study, dated March 3, 2023
2. Millers Falls Wastewater Collection System Study, dated April 14, 2023

The Town of Montague has requested that Wright-Pierce submit a proposed scope and fee to provide design, bidding, and construction administration services to implement the following Priority 1 and Priority 2 recommended rehabilitation in both Turners Falls and Millers Falls. The 51 Priority 1 manholes identified in Turner Falls areas are not included in this Project because they are separately being rehabilitated under the Phase 1 Sewer and Manhole Rehabilitation Project going out to bid in Fall 2024/Winter 2025 and constructed in Spring 2025.

Location	Priority	# of Manholes	# of Pipes	LF of Pipe
Turner Falls	1	51*	11	3,613
Turner Falls	2	0	4	1,254
Millers Falls	1	42	18	3,996
Millers Falls	2	32	4	596
Total	--	74	37	9,459

*Not included in this project.

10/7/2024

Mr. Walter Ramsey, Town Administrator

Page 2 of 5

The Town of Montague has also requested Wright-Pierce to update the planning level opinion of probable construction cost provided in the two deliverables indicated above separate from this proposal. Our proposed scope and budget for engineering services are presented below.

Proposed Scope of Work

Task 1 – Design

Scope of work under this task will include:

1. Wright-Pierce will perform project administration tasks including communicating with the Town, tracking budget and schedule, and preparing and submitting monthly invoices.
2. Wright-Pierce will prepare for and attend an in-person kick-off meeting, with the Town's and Wright-Pierce's project team members. At the kick-off meeting, Wright-Pierce will establish schedules for deliverables and communication protocols.
3. Wright-Pierce will develop a 75 percent submittal that includes bid document/specifications with GIS-based drawings and an opinion of probable construction cost. The front-end specifications will be based on EJCDC 2018 edition. Technical specifications will be prepared using the CSI 16 Division format. The location of the manholes will be shown on GIS-based 11"x17" figures.
 - a. The Bid/Contract documents will be prepared in accordance with MGL Chapter 30, 39M governing public works projects in the Commonwealth of Massachusetts.
 - b. Wright-Pierce will submit an electronic copy (PDF) of the bid document/specifications to the Town and meet with the Town to discuss review comments.
4. Wright-Pierce will address the Town's comments on the 75 percent bid document/specifications within 15 business days of receiving the Town's comments. Wright-Pierce will prepare and submit two hard copies and an electronic version of the 100 percent bid documents/specifications and an opinion of probable construction cost.

Task 2 – Bidding Assistance

Scope of work under this task will include:

1. Coordinate bidding through the Wright-Pierce bidding platform. The Town shall be responsible for all advertising costs.
2. Respond to bidders' questions.
3. Prepare and distribute up to two addenda to the bid documents.
4. Attend in-person bid opening for the construction contract.
5. Review all bids and prepare bid tabulation.
6. Review the qualifications of the apparent low bidder(s) and compliance with other contract requirements. Report on the results of the reviews and issue a bid summary to the Town.
7. The length of the Bidding Phase is assumed to be approximately 60 days. The length of the Bid Period from Advertisement to Bid Opening is assumed to be approximately 21 days.

10/7/2024

Mr. Walter Ramsey, Town Administrator

Page 3 of 5

Task 3 – Construction Administration

Scope of work under this task will include:

1. Project Administration and Management
 - a. Perform project administration and management tasks including communications with Town, tracking budget and schedule, and preparing and submitting monthly invoices.
2. Prepare for and attend up to three monthly progress meetings and one preconstruction meeting, with Town, Contractor, and Wright-Pierce's project team members. Progress meetings will include a report on budget, schedule updates, and review of technical aspects. Prepare and distribute minutes of the meetings.
3. Consult with and advise Town and act as Town's representative as provided in the Standard General Conditions and Supplementary Conditions of the Construction Contract. The extent and limitations of the duties, responsibilities, and authority of engineer as assigned in said Standard General Conditions shall not be modified, except as engineer may otherwise agree to in writing. The Town's instructions to Contractor will be issued through Wright-Pierce, who shall have authority to act on behalf of Town in dealings with Contractor to the extent provided in this Agreement and said Standard General and Supplementary Conditions except as otherwise provided in writing.
4. Review shop drawings, diagrams, illustrations, schedules, the results of tests and inspections, which the Contractor is required to submit to demonstrate conformance with the construction Contract Documents. Reject any materials, or other items which do not meet minimum requirements. Review warranties and manufacturers' information for products and materials supplied for the project.
5. Review Town's and/or Contractor's requests for materials substitution for items specified in the Contract Documents.
6. Make visits to the site at appropriate intervals to observe the progress of the construction work. Prepare reports of findings, as necessary.
7. Review field test reports, including those submitted by the Contractor's Independent Testing Laboratory. Attend field tests, as necessary.
8. Review Contractors' draft and final requests for payment and estimate amounts to be paid. Process the final request for payment. It is assumed that four payment requests will be processed for this project.
9. Review and negotiate changes in the scope of work, price, and/or completion time. Prepare change orders which may become necessary due to factors discovered during the progress of the work. Review and provide clarifications and interpretations of the Contract Documents.
10. Monitor work progress for conformance with established schedules and budget.
11. Prepare punch list of uncompleted or unacceptable work.
12. Conduct a Substantial Completion inspection and prepare a Certificate of Substantial Completion.
13. Provide an electronic copy in PDF format showing those deviations from the original drawings during the Construction Phase based on marked-up prints, figures, and other data furnished by the Contractor to Wright-Pierce and that Wright-Pierce considers significant.

10/7/2024

Mr. Walter Ramsey, Town Administrator

Page 4 of 5

Task 4 – Resident Project Representative

Scope of work under this task will include:

1. Coordinate and provide a Resident Project Representative (RPR) to represent the Town and Wright-Pierce in the field during construction. The assigned RPR will have an active NASSCO Inspector Training Certification Program (ITCP) Cured-in-Place-Pipe (CIPP) certification in observing progress and quality of the Work. Wright-Pierce anticipates the contractor will be onsite for 90 calendar days (13 weeks) to perform the work. Wright-Pierce shall provide a full-time RPR for up to 585 hours based on 9 hours per day for 65 workdays.

Items Not Included in Proposed Scope of Services and Assumptions

1. A pre-bid conference will not be held.
2. All materials testing specified will be included in the General Contractor's bid.
3. Requirements for meeting M/WBE goals for engineering services.
4. Permits are not anticipated due to the no-dig nature of the work. It is also assumed that the Town will obtain an exemption from its Conservation Commission for a Notice-of-Intent (NOI) because this work is sewer maintenance related and mostly trenchless.
5. Development of permit applications and payment of applicable fees.
6. Topographical and utility location survey; wetland delineation; and subsurface investigation (i.e., borings, probes, etc.) of the project area.
7. Post-construction services.
8. The design will be based on the NASSCO MACP and PACP coding from the field investigation work in 2022. No additional inspections will be performed.
9. Unless otherwise indicated, construction phase services assume a construction timeline of 120 calendar days (17 weeks) from the Notice to Proceed to substantial completion and another 30 calendar days (4 weeks) to final completion.

Proposed Fee

We propose to provide the scope of services described above based on a time charge basis with a not-to-exceed fee of \$257,900, including labor and reimbursable expenses, for Tasks 1 through 4. Should additional services be required, we will not exceed this fee without written authorization.

10/7/2024

Mr. Walter Ramsey, Town Administrator

Page 5 of 5

Task	Labor	Reimbursable Expenses	Fee
Task 1 – Design	\$69,600	\$700	\$70,300
Task 2 – Bidding	\$13,900	\$600	\$14,500
Task 3 – Construction Administration	\$84,500	\$1,100	\$85,600
Task 4 – Resident Project Representative	\$75,800	\$11,700	\$87,500
Total	\$243,800	\$14,100	\$257,900

If the proposed scope and fee is acceptable, Wright-Pierce will prepare a Task Order under our existing on-call Agreement. We appreciate being considered for this assignment and look forward to working with you and your staff.

Sincerely,

WRIGHT-PIERCE



Lisa M. Muscanell-DePaola, PE
Project Manager

lisa.muscanell@wright-pierce.com



Christopher N. Pierce, PE
Senior Vice President

chris.pierce@wright-pierce.com

Chris Nolan

From: Lisa Muscanell <lisa.muscanell@wright-pierce.com>
Sent: Wednesday, October 9, 2024 3:48 PM
To: Walter Ramsey
Cc: Chris Nolan; Michael Stein
Subject: RE: Phase 2 Sewer and Mahole Rehabilitation
Attachments: Phase2SewerRehab_DesignCA_ProposalLetter_v2.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

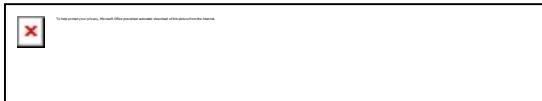
Walter,

Attached is the scope and fee proposal letter that you requested by mid-October to assist with budgeting and planning for the Annual Town Meeting in May 2025.

Regards,

Lisa

Lisa M. Muscanell-DePaola, PE (she/her)
Wright-Pierce | Lead Project Engineer | Project Manager
direct 860.852.1912 | office 860.343.8297



From: Lisa Muscanell
Sent: Tuesday, September 17, 2024 6:15 PM
To: Walter Ramsey <WalterR@montague-ma.gov>
Cc: Chris Nolan <ChrisN@montague-ma.gov>
Subject: Phase 2 Sewer and Mahole Rehabilitation

Walter,

We are having our Vice President QAQC the scope and fee proposal letter for our technical services, however, I wanted to let you know that our budgetary, planning level (10% design) opinion of probable construction cost (including contingencies, technical services (design, construction, inspection etc.), construction contract etc.) is \$2.5Million.

This uses a 25% construction contingency right now and 30% engineering and administrative fees.

If you think this could still pass at \$3M, you may want to use that number especially if this will take a few years to get out to bid and constructed.

Lisa

Lisa M. Muscanell-DePaola, PE (she/her)

Wright-Pierce | Lead Project Engineer | Project Manager
direct 860.852.1912 | **office** 860.343.8297





Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Sam Urkiel

Item/Project Cost: \$365,000 Date Prepared: October 31, 2024

Item/Project Title: 10 Wheel Dump Truck

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$365,000** or any other amount, for the purpose of a 10 wheeled dump truck with wing plow and spreader, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

The truck will be used year-round for highway maintenance including clearing winter roads and hauling construction materials to and from job sites.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?
If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Purchased by DPW, no external oversight needed.

Why is it essential that the Town makes this investment now?

Purchase will replace an aging 2003 International 7400 with wing plow and spreader. The truck has undergone significant repairs including replacement of the dump body in 2017. This replacement request follows the capital improvement plan of 20 years for a large dump truck.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

Comments and additional information:



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Sam Urkiel

Item/Project Cost: \$325,000 Date Prepared: October 31, 2024

Item/Project Title: Large Dump Truck

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$325,000** or any other amount, for the purpose of a large dump truck with spreader, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

The truck will be used year-round for highway maintenance including clearing winter roads and hauling construction materials to and from job sites.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Purchased by DPW, no external oversight needed.

Why is it essential that the Town makes this investment now?

Purchase will replace an aging 2002 International 4900 with spreader. This replacement request follows the capital improvement plan of 20 years for a large dump truck.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

Comments and additional information:



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Sam Urkiel

Item/Project Cost: \$70,000 Date Prepared: October 31, 2024

Item/Project Title: Sewer CCTV Van

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$70,000** or any other amount, for the purpose of a Sewer CCTV Van, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

The Van will be used for transportation to and from sewer infrastructure around town with CCTV equipment used to inspect the system for condition reports.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Purchased by DPW, no external oversight needed.

Why is it essential that the Town makes this investment now?

Purchase will replace a 2001 Ford E450. This replacement request follows the capital improvement plan of 12 years for a truck.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

Comments and additional information:



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Sam Urkiel

Item/Project Cost: \$65,000 Date Prepared: October 31, 2024

Item/Project Title: Ford F-150 Pickup

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$65,000** or any other amount, for the purpose of a Ford F-150 Pickup, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

The truck will be used for transportation to and from town buildings with cleaning supplies and equipment. Will also assist with moving of furniture and goods.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Purchased by DPW, no external oversight needed.

Why is it essential that the Town makes this investment now?

Purchase will replace an aging 2007 F-150 pickup. This replacement request follows the capital improvement plan of 12 years for a truck.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

Comments and additional information:



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Sam Urkiel

Item/Project Cost: \$60,000 Date Prepared: October 31, 2024

Item/Project Title: Oakman St and Country Club Ln Storm Drain Washout Repair Engineering

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$60,000** or any other amount, for the purpose of Engineering a method of repair to washouts located on Oakman St and Country Club Ln, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

The slope below storm drainage has begun to washout significantly. Lots of downhill erosion has occurred.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?
If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Engineering work to be done by others with anticipated repairs in house by DPW.

Why is it essential that the Town makes this investment now?

If delayed the area of repair could become much larger and include roadway damage or closure. Efforts should be made to reduce the amount of sediment loss to downhill waterways.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

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Comments and additional information:



Stantec Consulting Services Inc.
5 Dartmouth Drive Suite 200, Auburn NH 03032-3984

January 15, 2024
File: 195189006

Attention: Mr. Walter Ramsey,
Town Assistant Administrator
Turners Falls Town Office
1 Avenue A
Turners Falls, MA 01376

Dear Ramsey,

Reference: Oakman Street and Country Club Lane Storm Drain Outfall Repairs

Per your request, we are submitting for your review and approval a proposed scope and fee for to perform preliminary engineering services for the storm drain outfall repair at the corner of Oakman Street and Country Club Lane and for the slope failure at the storm drain outlet to the west of 118 Country Club Lane. A map of the approximate outfall locations is provided as Attachment 'A'. Based on our review of the current outfall and slope failure(s) conditions and our understanding that the Town anticipates performing the repairs for these outfalls, we have developed a preliminary scope of engineering services for the design of repairs to these outfalls to include the following:

Preliminary Engineering:

- Coordinate with existing property owners to obtain access for preliminary engineering.
- Perform wetlands delineation, wetlands flagging, natural resource assessment and develop an associated wetlands and natural resources report in anticipation of permitting for the project limits described in Attachment 'A'.
- Perform a topographic and physical conditions survey for the project limits described in Attachment 'A'. It should be noted that the limits of wetland delineation and survey extend for the entire limits from the golf course and between the two slope failure locations to determine a feasible point of access to minimize existing clearing, disturbance and associated necessary grading for access to perform the two outfall repairs.
- Perform 1-boring to a depth of 55-feet (or refusal) and 1-boring to a depth of 25-feet (or refusal) (assumes two days of borings) to perform a subsurface assessment of the existing soils in proximity to the Oakman Street outfall failure.
- Collect three (3) 5-gallon soil samples at the locations of the existing slope and outfall failures and perform sieve analysis testing on the samples in conformance with ASTM C136.
- Summarize the results of the subsurface investigation, including the borings performed in the field and soil sample analysis in a Geotechnical memorandum summary for the project for the project

Reference: Oakman Street and Country Club Lane Storm Drain Outfall Repairs

site(s) to be utilized as the basis of design for the design of the slope reinforcement and scout abatement measures.

- Perform an inspection of the existing drainage structures (two catch basins) and culverts (two culverts) to confirm whether rehabilitation of the existing drainage infrastructure is required as part of the project.
- Develop and analyze a stormwater model for the two outfalls to determine the required culvert size(s), stormwater outfall conditions and design scour abatement measures for the culvert outfalls.
- Perform scour abatement analysis in accordance with the application HEC-RAS standards in conformance with MADEP and MassDOT standards and requirements.
- Create a Hydraulic and Hydrologic and Scour Abatement report in anticipation of the required MADEP wetlands permitting for the proposed improvements.

Preliminary Design:

- Create an AutoCAD base plan for the project limits that will be the basis of the proposed improvements.
- Create site plan sheets with the recommended corrective actions, proposed grading and associated limits of disturbance (Assumes 3 plan sheets)
- Create Construction Details for the recommended corrective action and associated erosion control measures in anticipation of permitting (Assumes 2 plan sheets)
- Prepare two preliminary opinions of probable construction costs based on the town bidding and performing the rehabilitation for the project.
- Submit to the Town draft plans, recommendation letter, cost estimates and reports for review and comment.
- Determine appropriate point of access to perform repairs.
- Coordinate with property owners and obtain right of entry agreements, in anticipation of performing construction in 2024.

Depending on the determined scope of recommended repairs, the Town's review of the submitted plans and reports and determination as to whether the Town would like to proceed with public bidding the required repairs or performing the associated repairs with the DPW forces, Stantec can develop a scope, level of effort and associated fee to perform MADEP wetlands dredge and fill permitting for construction, obtain formal access easement for future system maintenance (if required) and to develop contract documents (plans and specification) for construction, if it is desired by the Town to publicly bid the proposed improvements. .

We anticipate that the project survey and wetlands delineation can be completed in March 2024, weather permitting, and we can complete the remaining scope of engineering services described here-in and provide a rehabilitation recommendation, draft plans, and associated reports to the Town by May 2024.

January 15, 2024
Mr. Walter Ramsey,
Page 3 of 3

Reference: Oakman Street and Country Club Lane Storm Drain Outfall Repairs

Based on the described scope of work and we can perform the preliminary engineering services at a not to exceed costs of **\$51,881** a breakdown of the anticipated level of effort for each item described in the project scope is detailed in Attachment 'B'.

Should you have any questions or require any additional information please feel free to contact us.

Respectfully Submitted,

Stantec Consulting Services, Inc.

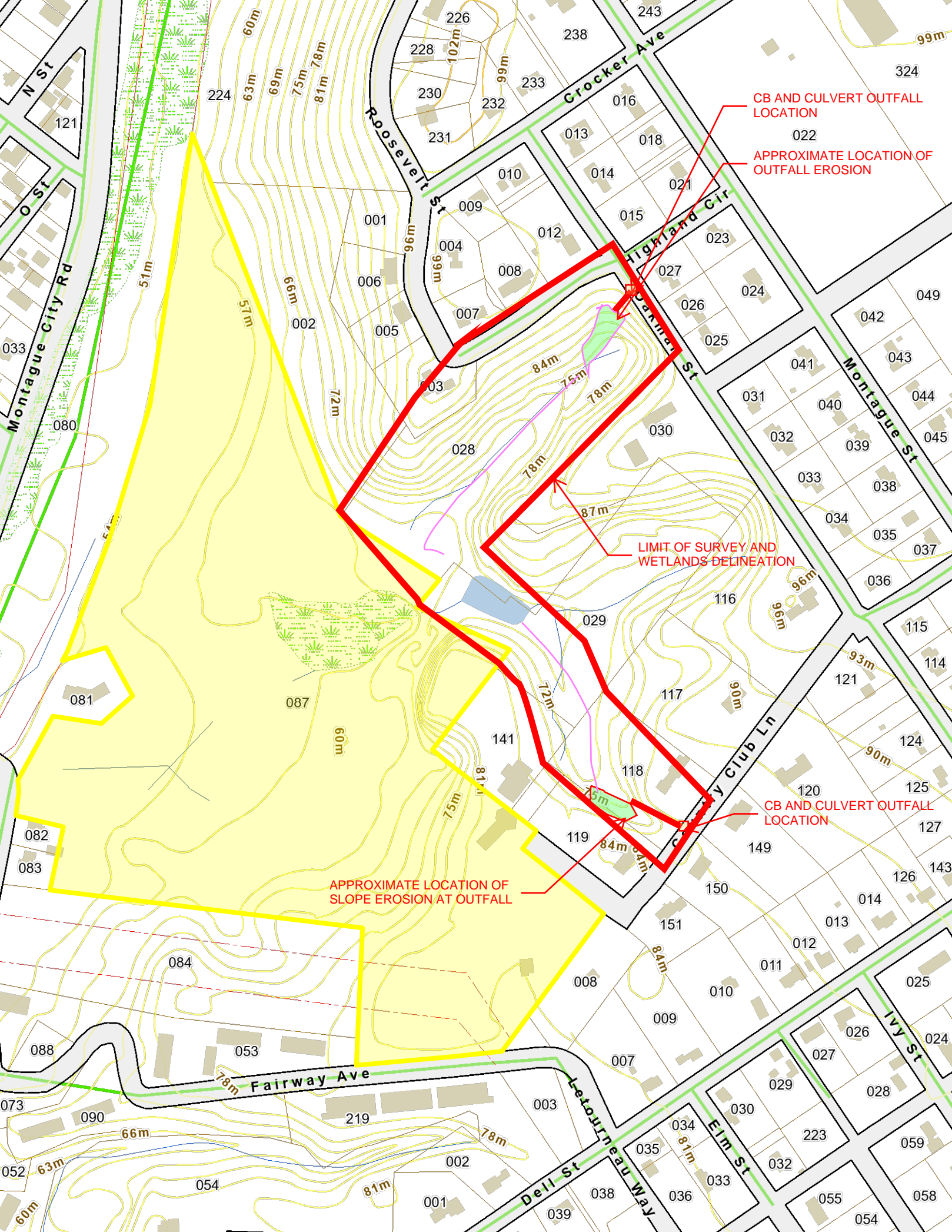


Bryan Ruoff, PE
Associate
Phone: 603-206-7548
Fax: 603-669-7636
Bryan.Ruoff@stantec.com

Attachment: Level of Effort Summary
c. Tom Bergeron, Town of Montague, MA
Rene LaBranche, Stantec

rb document2

**ATTACHMENT A -
PROJECT LOCATION**



CB AND CULVERT OUTFALL LOCATION

APPROXIMATE LOCATION OF OUTFALL EROSION

LIMIT OF SURVEY AND WETLANDS DELINEATION

CB AND CULVERT OUTFALL LOCATION

APPROXIMATE LOCATION OF SLOPE EROSION AT OUTFALL

**ATTACHMENT B -
LEVEL OF EFFORT SUMMARY**



SUMMARY REPORT

Project Company	Stantec US Business Group
Project Currency	US Dollar
Project Type	Time & Material

Project Number	195189005
Project Name	Oakman St and Country Club Lane Outfall Failures
Client Name	Town of Montague, MA
Business Centre	BC-1951 Water-US Northeast
Project Manager	Bryan Ruoff
Project Technical Lead	Bryan Ruoff

Project Summary	Total Fee
Labour	\$31,624.00
Expense	\$360.36
Subs	\$19,897.50
Total	\$51,881.86

Planned Start Date	Planned End Date
2024-01-21	2024-06-10

Name	Role	Billing Rate	Hours	Sub-Total Fee
LaBranche, Rene	Principal in Charge	\$225.00	3.00	\$675.00
Ruoff, Bryan	PM / PTL	\$181.00	44.00	\$7,964.00
Garner, Cyrus	Geotech	\$150.00	42.00	\$6,300.00
Potter, Seth	Inspector	\$125.00	25.00	\$3,125.00
Butts, Sarah	Engineer	\$120.00	66.00	\$7,920.00
Drescher, Bill	Engineer	\$120.00	47.00	\$5,640.00
			227.00	\$31,624.00

Expense	Billing Rate	Units	Sub-Total Fee
Travel	\$0.64	560.00	\$360.36
			\$360.36

Subs	Billing Rate	Units	Sub-Total Fee
Subconsultants	\$1.05	18,950.00	\$19,897.50
			\$19,897.50



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Samuel Urkiel

Item/Project Cost: \$200,000 Date Prepared: 11/13/2024

Item/Project Title: Meadow Rd Guardrail

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$200,000** or any other amount, for the purpose of Meadow Rd Guardrail, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

Requesting funds to replace and or make improvements to Guardrail along Meadow Rd and other areas in town. The guardrail is unsafe and wouldn't protect any motorist from harm if needed. The wood posts are rotten, broken and missing in many areas. The height of the guardrail is also inconsistent.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?
If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

FRCOG procurement, DPW project management.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

To protect the public from additional hazards on town roadways.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

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Comments and additional information:





Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

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Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Chris Nolan-Zeller

Item/Project Cost: \$100,000 Date Prepared: January 9, 2025

Item/Project Title: Equipment and major repairs (Discretionary)

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$100,000**, or any other amount, for the purpose of funding large repairs or the purchase of new or used equipment, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

This recurring fund addresses unforeseen expenses where timeliness is important, it is not possible to secure Town Meeting appropriation, and the magnitude of such costs would quickly exhaust the Finance Committee Reserve fund. Request is for up to \$100,000, but will be reduced to amount needed to replenish fund at level of \$100,000 based on account balance as of March 1, 2025.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

Purchases will be made and work overseen by the Montague DPW.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

This fund is needed to keep the Department's equipment in running order, and to fund new and replacement equipment as needed.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

XOX

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Comments and additional information:



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

This form is intended for use with capital article submissions \geq \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: DPW Submitted by: Chris Nolan-Zeller

Item/Project Cost: \$30,000 Date Prepared: January 9, 2025

Item/Project Title: Alley and non-Ch90 road paving

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$30,000**, or any other amount, for the purpose of funding large repairs or the purchase of new or used equipment, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

Funding is needed to support paving various alleys and other rights-of-way not included in the state's Chapter 90 program.

Scoping Questions

Yes

No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?
If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

Purchases will be made and work overseen by the Montague DPW.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

XOX

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Comments and additional information:



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: Libraries Submitted by: Caitlin Kelley

Item/Project Cost: \$74,000 Date Prepared: 10/29/2024

Item/Project Title: Millers Falls Branch Library Storefront Replacement

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$74,000**, or any other amount, for the purpose of replacing the Millers Falls Branch Library’s storefront and ceiling tiles, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

Though new HVAC was installed and both the windows and back door of the Millers Falls Branch Library were replaced, one thing preventing the building from being energy efficient is the glass storefront on the front of the building. The storefront leaks cold air in the summer and hot air in the winter. The glass makes the immediate area around it quite hot from the spring through early fall and creates an uncomfortable “fishbowl” effect for library staff and patrons. Additionally, the front door regularly lets in water during heavy rains, which has led to interior floor damage. The current door is not accessible. Additionally, the current ceiling tiles are very old, and the ceiling lights are inefficient.

It is the intention of this project to replace the storefront with a regular building façade, incorporating large, but standard-sized windows in keeping with the aesthetic of the neighborhood and an ADA compliant automatic front door. This portion of the project is estimated to cost \$39,000.

Additionally, the ceiling tiles will be upgraded, and the current lighting will be swapped for LED’s. The existing ceiling grid will be kept. This portion of the project is estimated to cost \$34,000.

Please note that the Libraries’ Building Committee and I are very open to solely funding the storefront portion of this project. While replacing the ceiling tiles and the existing insulation will likely make the building more energy efficient, the storefront is our priority.

Scoping Questions

Yes No

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The library director will manage this project with procurement assistance from town administration . Contractors will gain entry to the building with assistance from the DPW.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

This project was first explored several years ago. Though it was at first designated an FY27 project, town admin agreed to swap this project with the Carnegie roof project, given the likelihood of a major construction project involving that building. Additionally, new flooring was recently installed---it would be prudent to prevent further rain seepage from entering the building and damaging this new flooring.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

Comments and additional information:

The quoted numbers were provided by Renaissance Builders, though I have not yet received a full, written estimate.



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: Parks & Recreation Submitted by: Jon Dobosz, Director

Item/Project Cost: \$125,000 Date Prepared: 10/20/24 (revised 01/09/25)

Item/Project Title: Unity Park Playground Repairs

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of \$125,000* or any other amount, for the purpose of << >>, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

This project will include the replacement of the rubber, pour-in-place (PIP) surfacing as well as the tube slide in the Unity Park playground. The current PIP surface is beyond its useful life and has been cracking and pulling up in numerous areas due to high traffic. There is approximately 2,500 sq. feet of PIP surfacing that must be replaced. A new tube slide will replace the current one that was purchased and installed in 2000 and is also beyond its useful life.

Scoping Questions

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work? Yes No

If yes, attach the estimate

- | | | |
|---|-------------------------------------|-------------------------------------|
| Is there a lease option for this expense? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will this item or project replace a capital asset? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Will this create ongoing costs or savings? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will this leverage grant or other external funding? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is this request identified on the Capital Improvement Plan? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The Parks & Recreation Department will manage procurement and execute the project. The playground equipment vendor will be responsible for design, engineering and installation of both items.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

Unity Park is not only the most popular public park in Montague, but it is also one of the most popular play areas in Franklin County. The playground receives constant patronage, which speaks to the importance of committing to routine maintenance. The life of rubber pour-in-place surfacing is approximately ten years, and the current PIP surface is original to Phase 1 of the Unity Park Improvement Project from 2012, so it is slightly beyond its useful life. The replacement of this surface is not only critical to the safety of our patrons but also maintains ADA regulations relative to public play spaces. Attempts have been made in the last couple of years to patch torn areas, but these efforts have resulted in less than acceptable results.

The current blue tube slide is one of, if not THE, most popular items in the playground area. Unfortunately, it is also quite old, and even pre-dates the tenure of the Parks & Recreation Director as it was installed in the year 2000. The accepted “life” of playground equipment is approximately fifteen years. The Parks & Recreation Department has started to invest more time, energy and resources into maintaining the slide over the last couple of years, and for the sake of safety this item should be replaced.

Relative Priority : Your assessment of how important this is to the Town at the present time.

Critical Importance
X

Highly Important
O

Moderately Important
O

Comments and additional information:



Quotation

M.E. O'Brien & Sons, Inc. is an Affirmative Action/Equal Opportunity Employer AA/EOE and Massachusetts SDO Certified WBE

Company Address

Date 11/4/2024

PO Box 718, Medway MA 02053-0718
 TEL 508-359-4200 / FAX 508-533-6342
 www.obrienandsons.com

Quotation Expires 12/4/2024

Customer Name Jonathan Dobosz, Town of Montague
Tel, Email 413-863-3216 / recdir@montague-ma.gov

Salesperson Colin Boutin
Admin Asst Breana Anderson

Version # 2

Job Name	Unity Park, Turners Falls MA
-----------------	-------------------------------------

Salesperson	Email	Pay Terms	Estimated Lead Time
Colin Boutin	colin_boutin@obrienandsons.com	Net 30	TBD

Quantity	Unit	Vendor, Model Number & Description	Unit Price	Taxable?	Amount
		Surface America			
2,746	sq/ft	PlayBound Poured-in-Place Safety Surfacing at a combination of 998 sq/ft at 1.75" thick, 1,167 sq/ft at 3.5" thick, and 581 sq/ft at 5.5" thick, includes turn down of Poured-in-Place into EWF. 50% Color/50% Black speckled mix, includes Aliphatic Binder with 10 Year Warranty (deduct \$9,144 from total price to change to Aromatic Binder with 7 Year Warranty)			
1	lot	Total Furnished, Delivered, and Installed	\$ 78,987.00	No	\$ 78,987.00
		Site Work			
		Remove current damaged Poured-in-Place			
		Confirm existing subbase is intact			
		Dispose of removed materials			
1	lot	Total Site Work	\$ 12,500.00	No	\$ 12,500.00

If you have any questions concerning this quotation, please contact your salesperson listed above.

Subtotal	\$ 91,487.00
Tax Rate	
Sales Tax	\$ -
TOTAL	\$ 91,487.00

2/14/2024

Please Read the Attached TERMS & CONDITIONS



Annual Town Meeting

SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year
FY 26

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Department: Selectboard Submitted by: Chris Nolan-Zeller, Asst. Town Admin.

Item/Project Cost: \$60,000 Date Prepared: 11/06/2024

Item/Project Title: Millers Falls Rd and Industrial Blvd – FRTA Bus Stop Improvements

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$60,000**, or any other amount, for the purpose of supplementing grant funds received by the Franklin Regional Transit Authority for bus stop improvements at Millers Falls Road and Industrial Boulevard, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: *(Provide a full description of the item or service. Use attachments as needed.)*

The Franklin Regional Transit Authority (FRTA) was awarded a grant from MassDOT’s Shared Streets and Spaces program in the amount of \$178,376 to fund improvements to the two bus stops on either side of Millers Falls Road at the intersection with Industrial Boulevard. Proposed improvements included four possible alternates, consisting of either Rectangular Rapid Flashing Beacons (RRFB) or HAWK Beacons for pedestrian crossing, and of either Simme-Seats or bus shelters for the comfort and convenience of transit users.

A deficit of \$57,287 exists between the grant award and the project engineer’s opinion of probable cost for the least expensive of the four alternates, which includes RRFBs and Simme-Seats. As a result, the FRTA is now approaching the Town and other stakeholder organizations, such as the Franklin Regional Housing and Redevelopment Authority (FCRHRA), to request assistance with funding this shortfall.

Scoping Questions

Please elaborate in the comments box at bottom of the page

Do you have a written estimate or proposal for the scope of work?

If yes, attach the estimate

Yes

No

Is there a lease option for this expense?

Will this item or project replace a capital asset?

Will this create ongoing costs or savings?

Will this leverage grant or other external funding?

Is this request identified on the Capital Improvement Plan?

Describe how the project/ purchase will be managed

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight?

The project will be fully managed and administered by the FRTA.

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

If the FRTA is unable to secure sufficient additional funds to support the project, there is a risk that the grant funds would need to be surrendered and the project would not move forward. The project as designed would improve safety for all users at a bus stop location served by two bus routes (23, 32), at an intersection which becomes quite busy during peak hours.

Relative Priority : Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

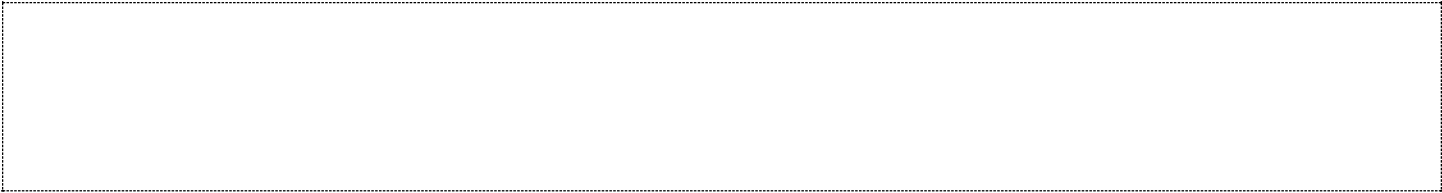
Moderately Important

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Comments and additional information:



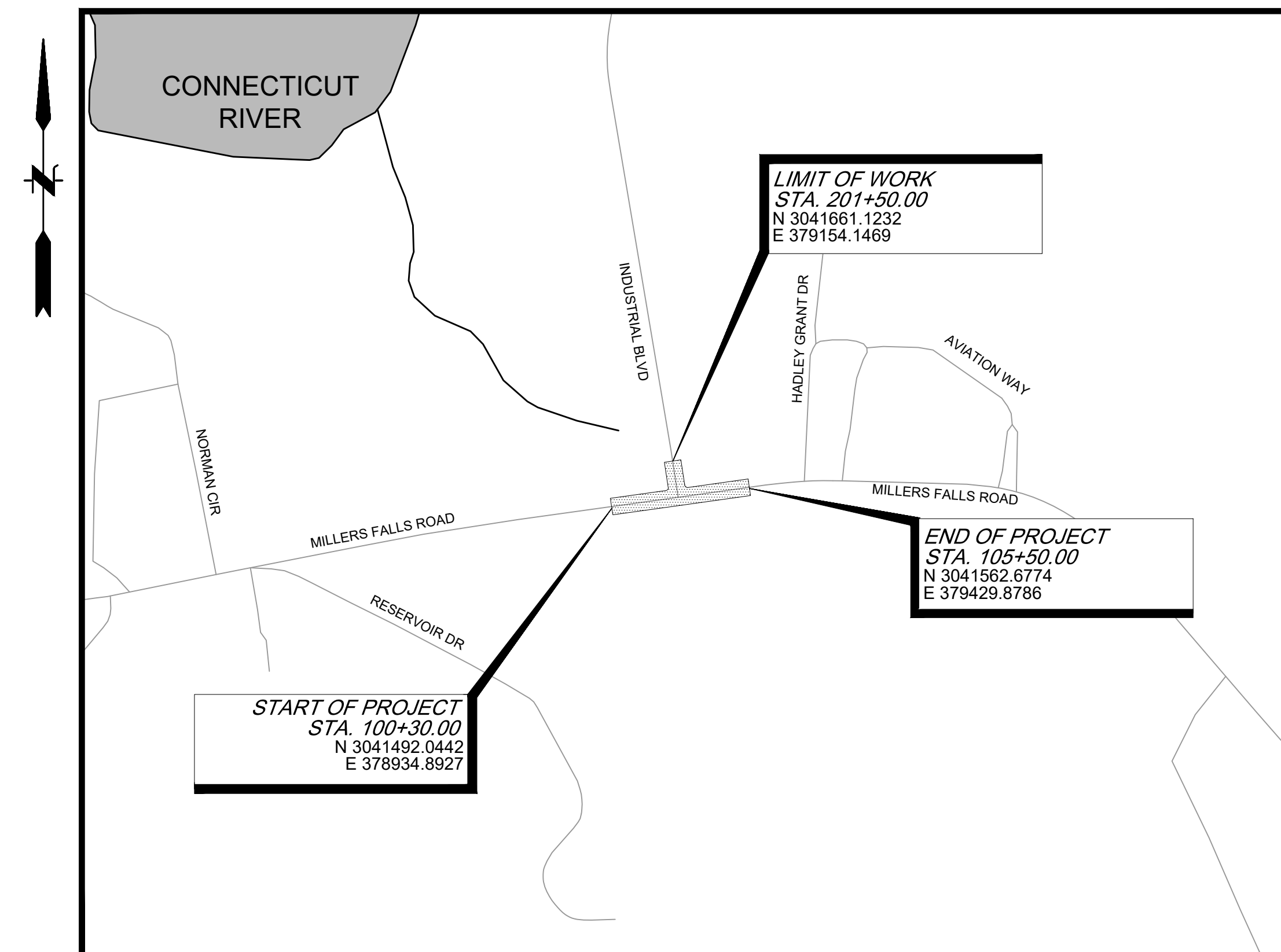
FRTA – INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS

MONTAGUE · MASSACHUSETTS
PRELIMINARY DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AUGUST 2024

SHEET INDEX

Page no.	Sheet no.	Sheet Title
1	GI-001	COVER SHEET
2	GI-002	LEGEND & GENERAL NOTES
3	GI-301	TYPICAL SECTIONS
4	CS-101	CONSTRUCTION PLANS
5-6	CR-201-202	ROADWAY PROFILES
7	CG-101	GRADING & BASELINE TIE PLANS
8	CT-101	PAVEMENT MARKING & SIGNING PLANS
9	CT-601	STANDARD TRAFFIC SIGN SUMMARY SHEET
10	CT-102	TRAFFIC SIGNAL PLANS
11-13	CT-103-105	TEMP. TRAFFIC MANAGEMENT PLANS
14	CT-602	TEMP. TRAFFIC SIGN SUMMARY SHEET
15-17	CD-501-503	CONSTRUCTION DETAILS
18	RW-101	ANTICIPATED ROW OF WAY IMPACT



LOCATION MAP

SCALE: 1" = 400'

LENGTH OF PROJECT = 580 FEET = 0.1098 MILES

PREPARED BY

FUSS & O'NEILL

1550 MAIN STREET, SUITE 400
 SPRINGFIELD, MA 01103
 413.452.0445
 www.fando.com

PREPARED FOR

**FRANKLIN REGIONAL
 TRANSIT AUTHORITY**
 12 OLIVE STREET
 GREENFIELD, MA 01301

PROJ. No.: 20240059.A10
 DATE: AUGUST 2024

GI-001

GENERAL SYMBOLS

EXISTING	PROPOSED	
□ CB (OR GI, LB)	● CB	CATCH BASIN (OR GUTTER INLET, OR LEACHING BASIN)
□ CBCI (OR GICI)	● CBCI (OR GICI)	CATCH BASIN (OR GUTTER INLET) WITH CURB INLET (GUTTERMOUTH)
=====	=====	EDGESTONE-TYPE NOTED
=====	=====	EDGE OF ROAD
○ EHH	● EHH	ELECTRIC HANDHOLE (NUMBER AS NOTED)
○ EMH	● EMH	ELECTRIC MANHOLE
○ TMH	● TMH	TELEPHONE MANHOLE
○ WMH	● WMH	WATER MANHOLE
○ SMH	● SMH	SEWER MANHOLE
○ DMH	● DMH	DRAINAGE MANHOLE
○ GG	● GG	GAS GATE
○ WG	● WG	WATER GATE
○ CS	● CS	CURB STOP
Hyd	Hyd	HYDRANT
○ FA	● FA	FIRE ALARM BOX
○ PM	● PM	PARKING METER
LP	LP	STREET LIGHT POLE
○ UP	● UP	UTILITY POLE
○ GUY	● GUY	GUY POLE
12" RCP	D 21"-12"RCP	DRAIN PIPE (UNDER 24")
	D 21"-24"RCP	DRAIN PIPE (DOUBLE LINE 24" AND OVER)
8" VCP	S 82"-8"VCP	SEWER MAIN
E	E	ELECTRIC DUCT
4" HP	G 8"GAS	GAS MAIN
8" C.I. W	W 12"DI	WATER MAIN
T	T	TELEPHONE DUCT
MB	MB	MAIL BOX
x x	x o	HIGHWAY GUARD (TYPE NOTED)
MHB	MHB	FENCE (SIZE AND TYPE NOTED)
LABEL/DATE	LABEL/DATE	HIGHWAY/PROPERTY BOUND (TYPE NOTED)
		CITY, TOWN, OR COUNTY LAYOUT
		STATE HIGHWAY LAYOUT (S.H.L.O.)
		EASEMENT LINE
		PROPERTY LINE
		CITY, TOWN, OR COUNTY BOUNDARY
		STATE BOUNDARY
		BASE OR SURVEY LINE
		CONSTRUCTION BASELINE
		TREE (SIZE AND TYPE NOTED)
		APPROXIMATE FULL DEPTH AREA
		COMPOST FILTER TUBE
		BORDERING VEGETATED WETLAND
		50' BUFFER TO WETLAND
		100' BUFFER TO WETLAND
		100' INNER RIPARIAN
		200' RIVERFRONT BUFFER
		MAJOR CONTOUR
		MINOR CONTOUR

PAVEMENT MARKINGS AND SIGNING SYMBOLS

EXISTING	PROPOSED	
→	→	PAVEMENT ARROW AND LEGEND
ONLY	ONLY	
CW	CW	CROSSWALK, 2-12" WHITE LINES (WIDTH NOTED)
SL	SL	STOP LINE, 12" WHITE LINE 4.0' BEHIND CW (TYP)
SWCHL	SWCHL	YIELD LINE, 24" x 36" WHITE TRIANGLE, 36" O.C.
SYCHL	SYCHL	SOLID WHITE CHANNELIZING LINE-SIZE AS NOTED
BWLL	BWLL	SOLID YELLOW CHANNELIZING LINE-SIZE AS NOTED
SWLL	SWLL	BROKEN WHITE LANE LINE - 4"
DYCL	DYCL	SOLID WHITE LANE LINE - 4"
SYEL	SYEL	DOUBLE YELLOW CENTERLINE - 4"
SWEL	SWEL	DASHED WHITE LANE LINE - 4"
BYLL	BYLL	SOLID YELLOW EDGE LINE - 4"
		SOLID WHITE EDGE LINE - 4"
		BROKEN YELLOW LANE LINE - 4"
		BICYCLE LANE
		BICYCLE DETECTION LEGEND
		SIGN AND POST
		DELINEATOR

REGULATORY REQUIREMENTS

1. ALL WORK SHALL CONFORM WITH THE ORDER OF CONDITIONS (OOC) ISSUED FOR THE PROJECT.
2. NOTIFY CITY OF EASTHAMPTON CONSERVATION COMMISSION A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
3. FIELD INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
4. POST DEP SIGN NUMBER ASSIGNED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
5. APPROVED PLANS SHALL BE ON SITE AT ALL TIMES.
6. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
7. THE CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
8. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

GENERAL NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO TOWN SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
3. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
4. THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
5. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT AND CITY LAYOUT.
6. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
7. HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE TOWN RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
8. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL.
9. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL UTILIZE SILT SACKS DURING CONSTRUCTION.

MAP REFERENCE

- 1.1. EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE COMPILED FROM SURVEY PERFORMED BY SHERMAN & FRYDRYK, BETWEEN JULY 12, 2024 AND JULY 15, 2024, AN AUTOCAD FILE PROVIDED BY THE SHERMAN & FRYDRYK ON AUGUST 21, 2024, AND FUSS & O'NEILL SITE INVESTIGATIONS ON JULY 9, 2024.
- 1.2. HORIZONTAL DATUM REFERS TO THE MASSACHUSETTS COORDINATE SYSTEM, NAD83, MAINLAND ZONE, VERTICAL DATUM IS NAVD88. BOTH DATUMS ARE ESTABLISHED AT THE SITE BY LOCAL GPS OBSERVATION ON THE MASSCORS NETWORK.

ABBREVIATIONS

GENERAL				UTILITIES		ALIGNMENT/GRADING		PROFILES		TRAFFIC SIGNAL SYSTEMS	
ABAN	ABANDON	NTS	NOT TO SCALE	ACCMP	ASPHALT COATED CORRUGATED METAL PIPE	CC	CENTER OF CURVE	AD	ALGEBRAIC DIFFERENCE IN RATES OF GRADE	R	STEADY CIRCULAR RED
ADJ	ADJUST	PGL	PROFILE GRADE LINE	CAP	CORRUGATED ALUMINUM PIPE	HP	HIGH POINT	ELEV	ELEVATION	Y	STEADY CIRCULAR YELLOW
APPROX	APPROXIMATE	PROP	PROPOSED	CIP	CAST IRON PIPE	LP	LOW POINT	HSD	HORIZONTAL SIGHT DISTANCE	G	STEADY CIRCULAR GREEN
BIT	BITUMINOUS	PVM'T	PAVEMENT	CIT	CHANGE IN TYPE	PC	POINT OF CURVE	K	RATE OF VERTICAL CURVATURE	FR	FLASHING CIRCULAR RED
BOS	BOTTOM OF SLOPE	REM	REMOVE	COND	CONDUIT	PI	POINT OF INTERSECTION	PVI	POINT OF VERTICAL INTERSECTION	-FR →	FLASHING RED ARROW
(B.O.)	BY OTHERS	REMOD	REMODEL	DIP	DUCTILE IRON PIPE	PNT	POINT	PVC	POINT OF VERTICAL CURVE	FY	FLASHING CIRCULAR YELLOW
CLF	CHAINLINK FENCE	RET	RETAIN	FES	FLARED END SECTION	PCC	POINT OF COMPOUND CURVE	PVT	POINT OF VERTICAL TANGENT	-FY →	FLASHING YELLOW ARROW
CONC	CONCRETE	R&D	REMOVE AND DISCARD	F&G	FRAME AND COVER	PVC	POINT OF VERTICAL REVERSE CURVE	PVRC	POINT OF VERTICAL REVERSE CURVE	↑	STEADY VERTICAL GREEN ARROW
ELEV	ELEVATION	R&R	REMOVE AND RESET	HDPE	HIGH DENSITY POLYETHYLENE PIPE	PRC	POINT OF REVERSE CURVE	PVCC	POINT OF VERTICAL COMPOUND CURVE	← X-	STEADY LEFT ARROW (RED, YELLOW OR GREEN PREFIX)
EOP	EDGE OF PAVEMENT	R&S	REMOVE AND STACK	HW	HEADWALL	PT	POINT OF TANGENT	SSD	STOPPING SIGHT DISTANCE	-X →	STEADY RIGHT ARROW (RED, YELLOW OR GREEN PREFIX)
EXIST	EXISTING	RT	RIGHT	HYD	HYDRANT	25.45	SPOT ELEVATION	VC	VERTICAL CURVE	W	STEADY WALK-WHITE
FND	FOUNDATION	STA	STATION	INV	INVERT					DW	STEADY DON'T WALK-PORTLAND ORANGE
GRAN	GRANITE	TEMP	TEMPORARY	PVC	POLYVINYLCHLORIDE PIPE					FDW	FLASHING DON'T WALK-PORTLAND ORANGE
HMA	HOT MIX ASPHALT	TOS	TOP OF SLOPE	PWW	PAVED WATER WAY						
LOAM	LOAM BORROW	TYP	TYPICAL	RCP	REINFORCED CONCRETE PIPE						
LT	LEFT			TSV&B	TAPPING SLEEVE VALVE AND BOX						
MAX	MAXIMUM			UP	UTILITY POLE						
MIN	MINIMUM										

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FUSS & O'NEILL 146 HARTFORD ROAD MANCHESTER, CT 06040 860.662.6669 www.fuss.com			
TOWN OF MONTAGUE LEGEND & GENERAL NOTES FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS			
PROJ. No.: 20240059.A10 DATE: AUGUST 2024			
GI-002			

NOTES:

PROPOSED CEMENT CONCRETE WALK

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

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROP. BOX WIDENING / FULL DEPTH

SURFACE: 2" SUPERPAVE SURFACE COURSE - 9.5 OVER

INTERMEDIATE: 2" SUPERPAVE COURSE - 12.5 OVER
6" HIGHLY EARLY CEMENT
CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROP STAMPED CEM. CONC.

SURFACE: 10" CEMENT CONCRETE
AIR ENTRAINED 5000psi, 3/4", 610

FOUNDATION: 8" MIN. GRAVEL BORROW, TYPE b.
(GRAVEL LINE TO MEET BOTTOM OF ADJACENT ROADWAY GRAVEL)

PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP (PCR) AND BUS SHELTER PAD

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

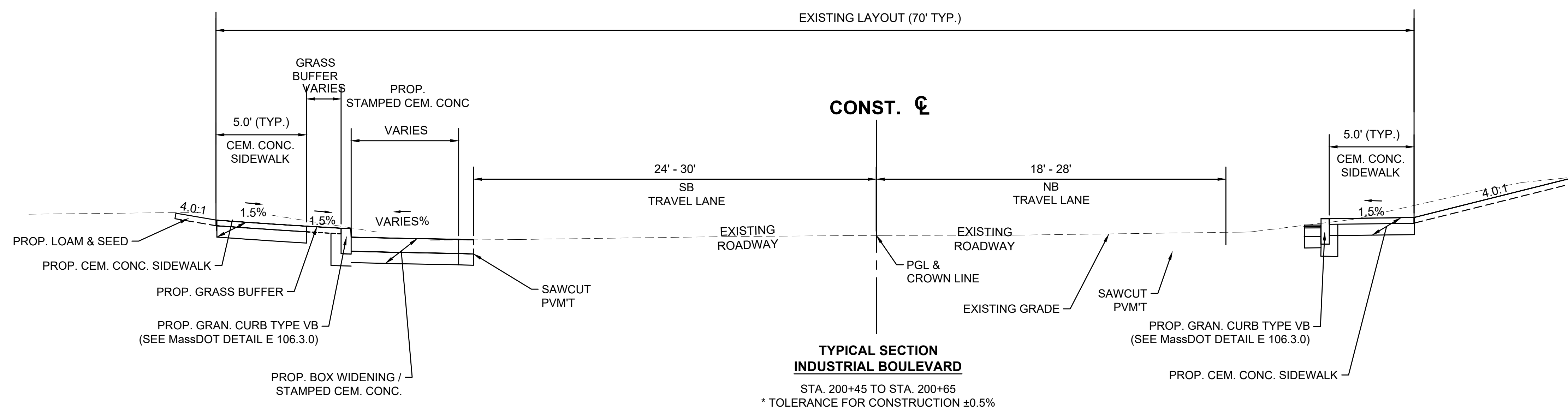
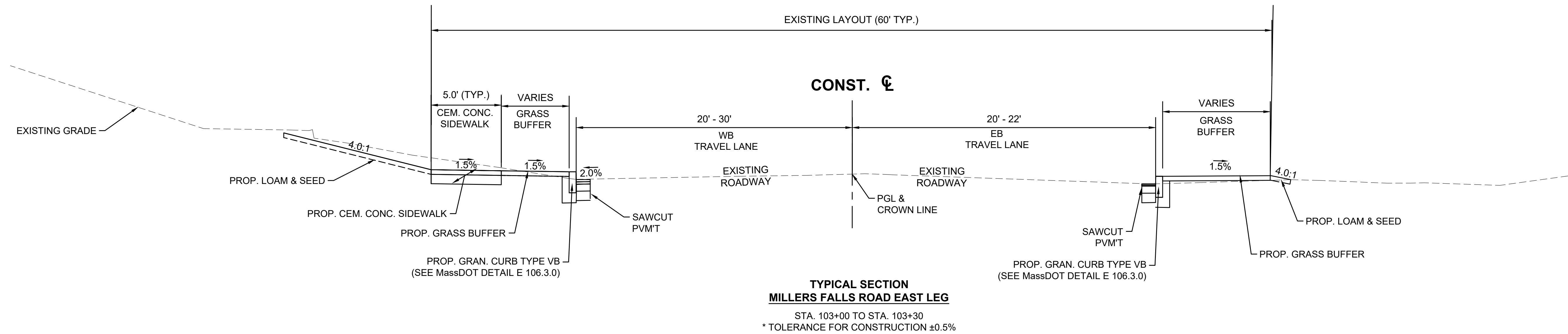
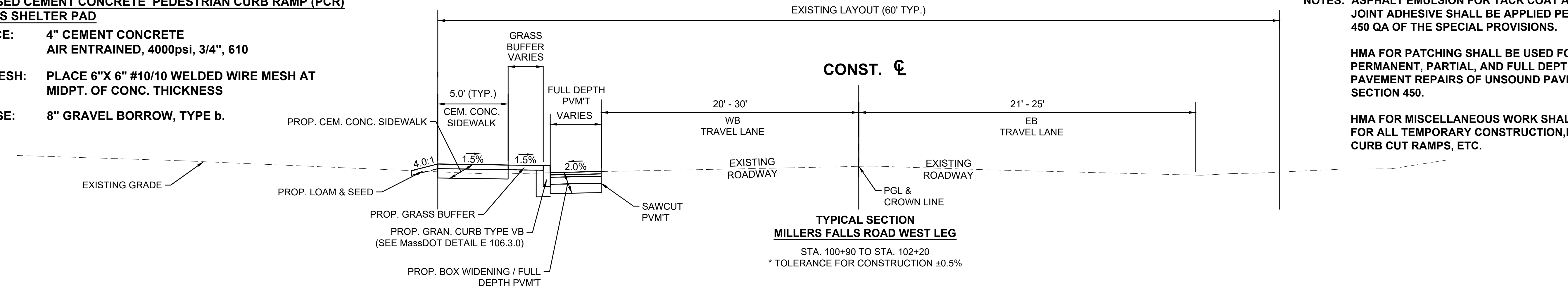
WIRE MESH: PLACE 6"X 6" #10/10 WELDED WIRE MESH AT MIDPT. OF CONC. THICKNESS

SUBBASE: 8" GRAVEL BORROW, TYPE b.

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

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450.

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



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DATE	DESCRIPTION

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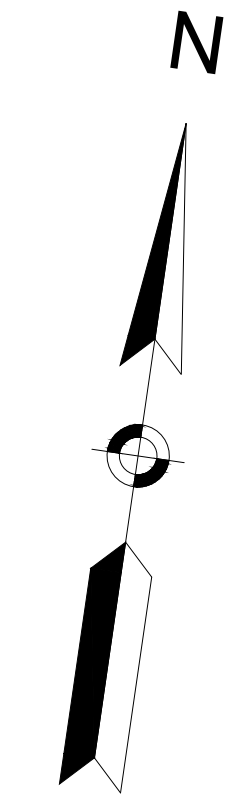
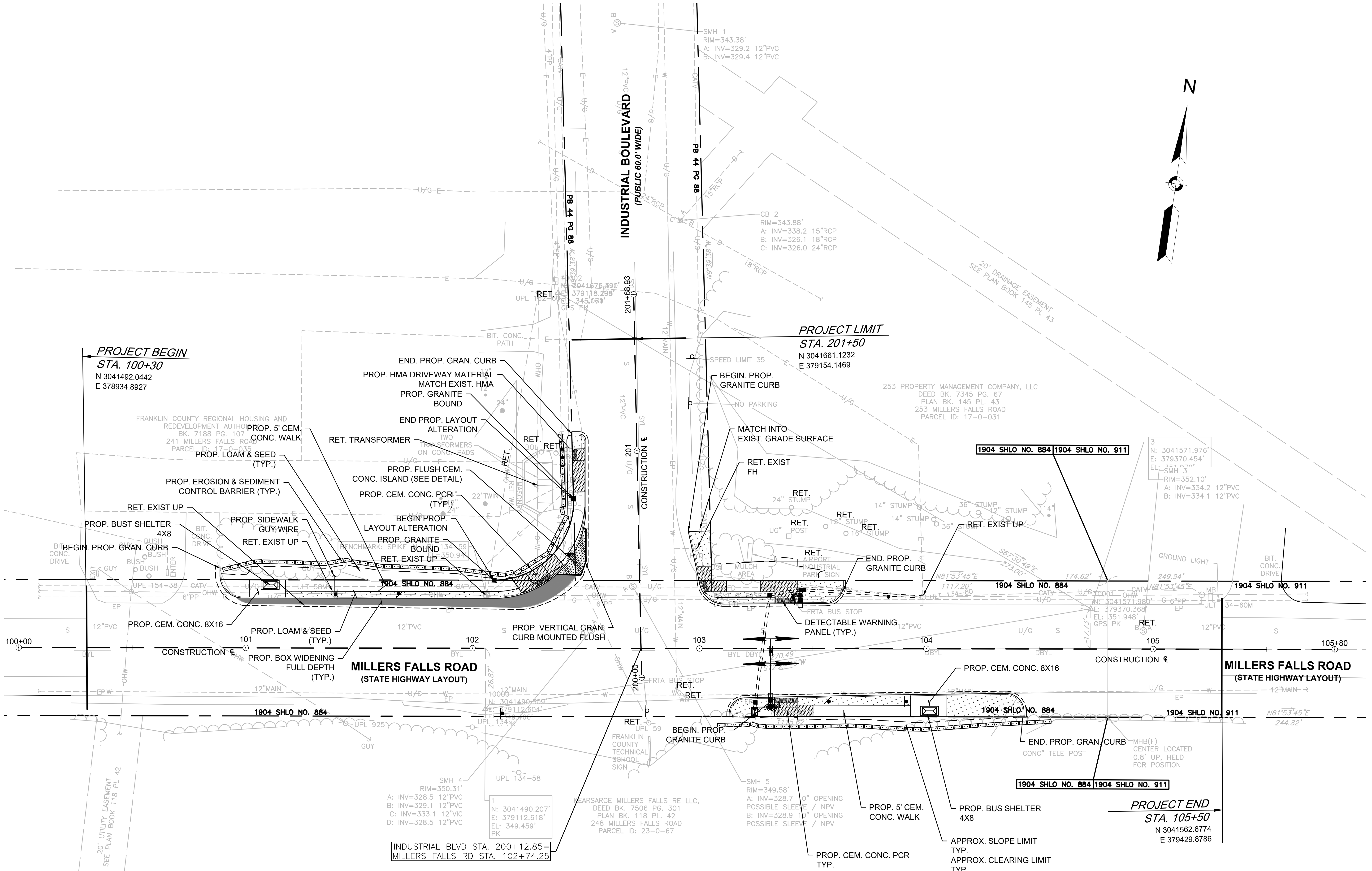
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TOWN OF MONTAGUE
TYPICAL SECTIONS
FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD
BUS STOP IMPROVEMENTS MASSACHUSETTS
MONTAGUE

PROJ. No.: 20240059.A10
DATE: AUGUST 2024

GI-301

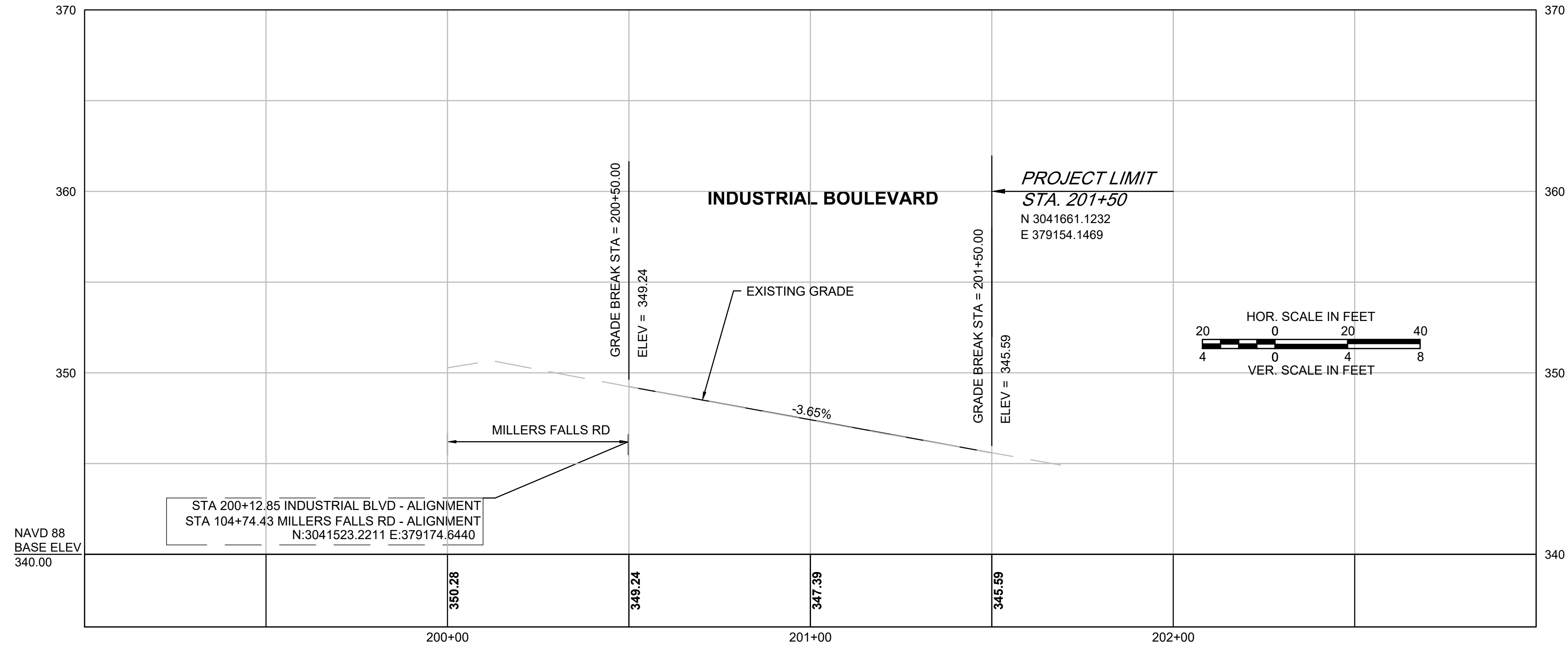
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TOWN OF MONTAGUE CONSTRUCTION PLANS FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS							
PROJ. No.: 20240059.A10 DATE: AUGUST 2024							
CS-101							

NOTES:

1. THE ROADWAY PROFILE WILL REMAIN UNCHANGED.
THE PROPOSED BOX WIDENING WILL MATCH THE EXISTING GRADE EXACTLY.
2. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE ELEVATION OF WIDENED SECTION ALIGNS SEAMLESSLY WITH THE CURRENT ROADWAY GRADE, WITH NO CHANGES TO EXISTING ROADWAY PROFILE.

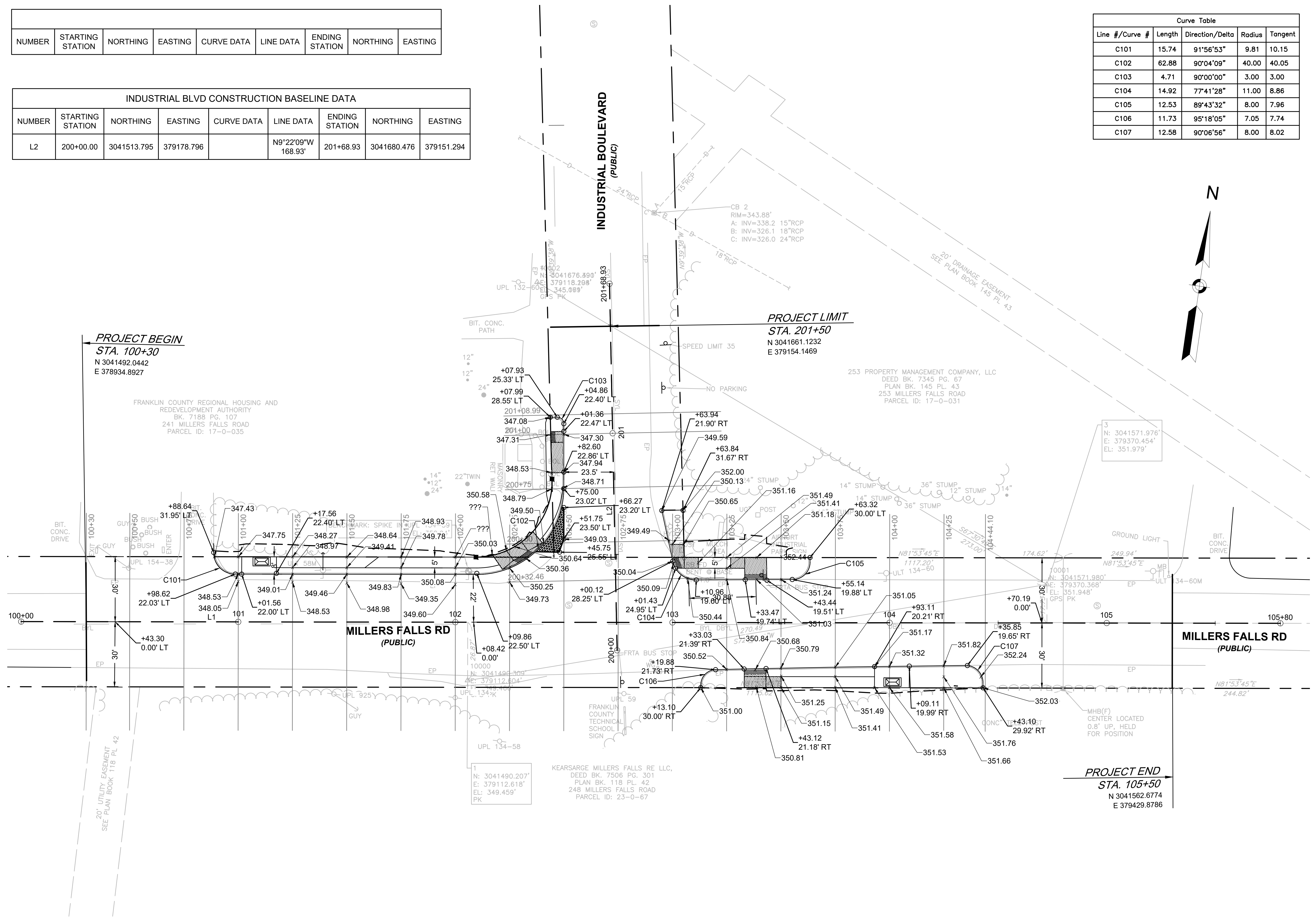


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	VERT.: -
FUSS & O'NEILL 1550 MAIN STREET, SUITE 400 SPRINGFIELD, MA 01103 413.462.0446 www.foss.com	
TOWN OF MONTAGUE ROADWAY PROFILES FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS	
PROJ. No.: 20240059.A10 DATE: AUGUST 2024	
CR-202	

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
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INDUSTRIAL BLVD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L2	200+00.00	3041513.795	379178.796		N9°22'09"W 168.93'	201+68.93	3041680.476	379151.294

Curve Table				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C101	15.74	91°56'53"	9.81	10.15
C102	62.88	90°04'09"	40.00	40.05
C103	4.71	90°00'00"	3.00	3.00
C104	14.92	77°41'28"	11.00	8.86
C105	12.53	89°43'32"	8.00	7.96
C106	11.73	95°18'05"	7.05	7.74
C107	12.58	90°06'56"	8.00	8.02

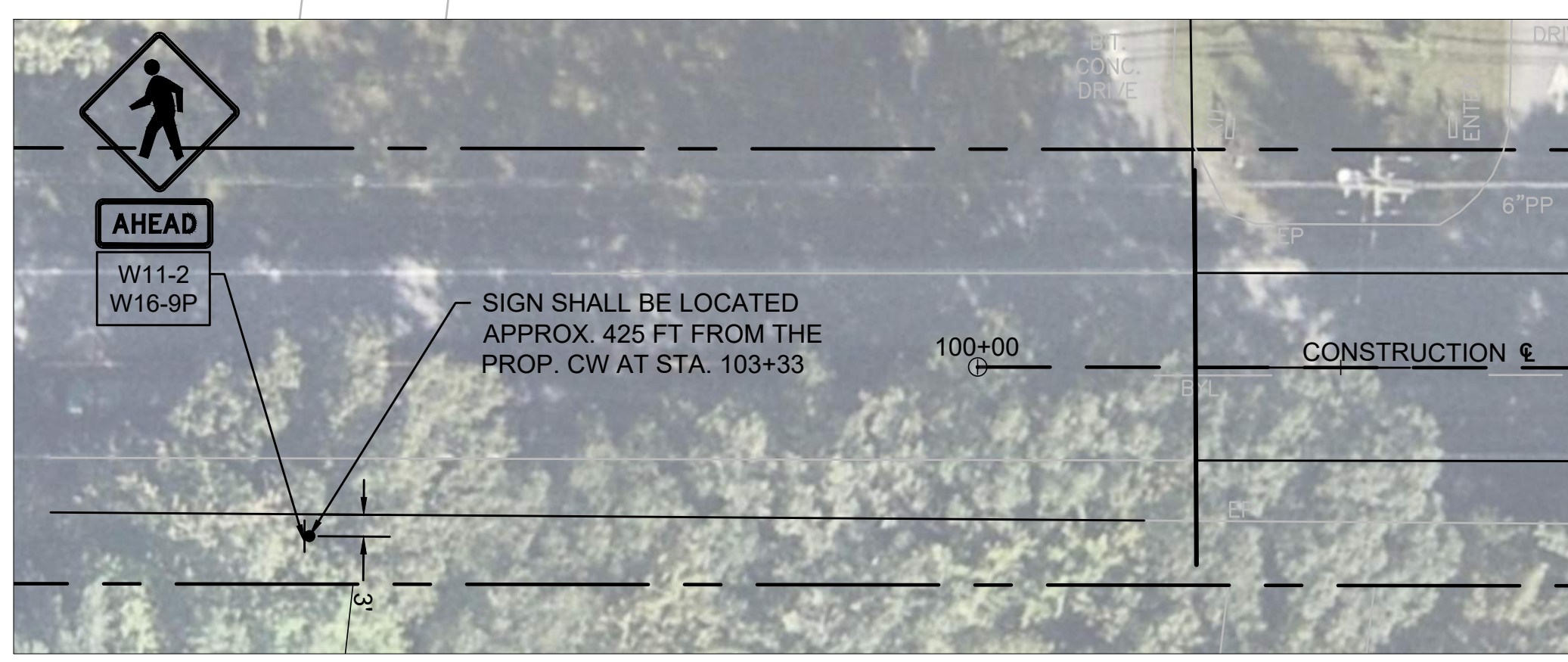
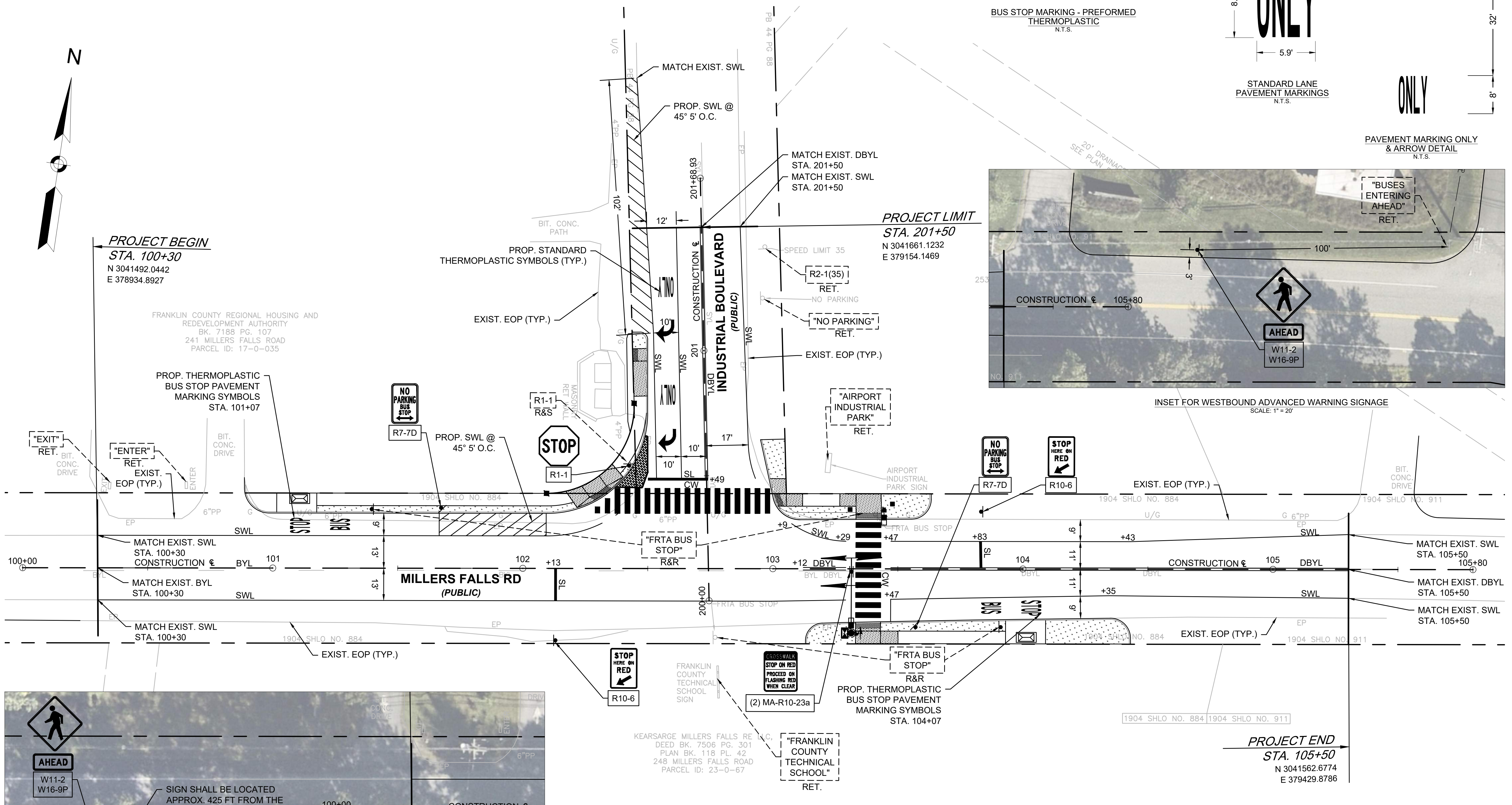
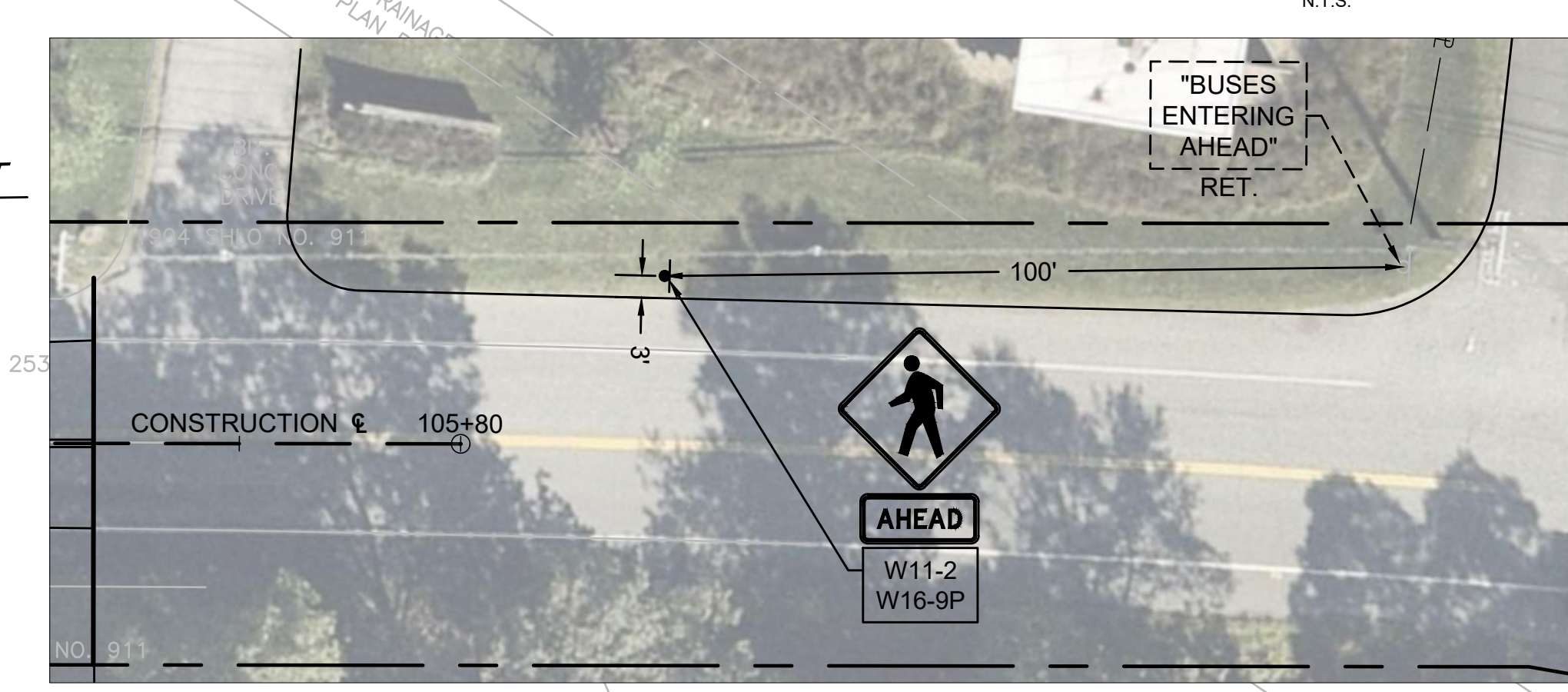
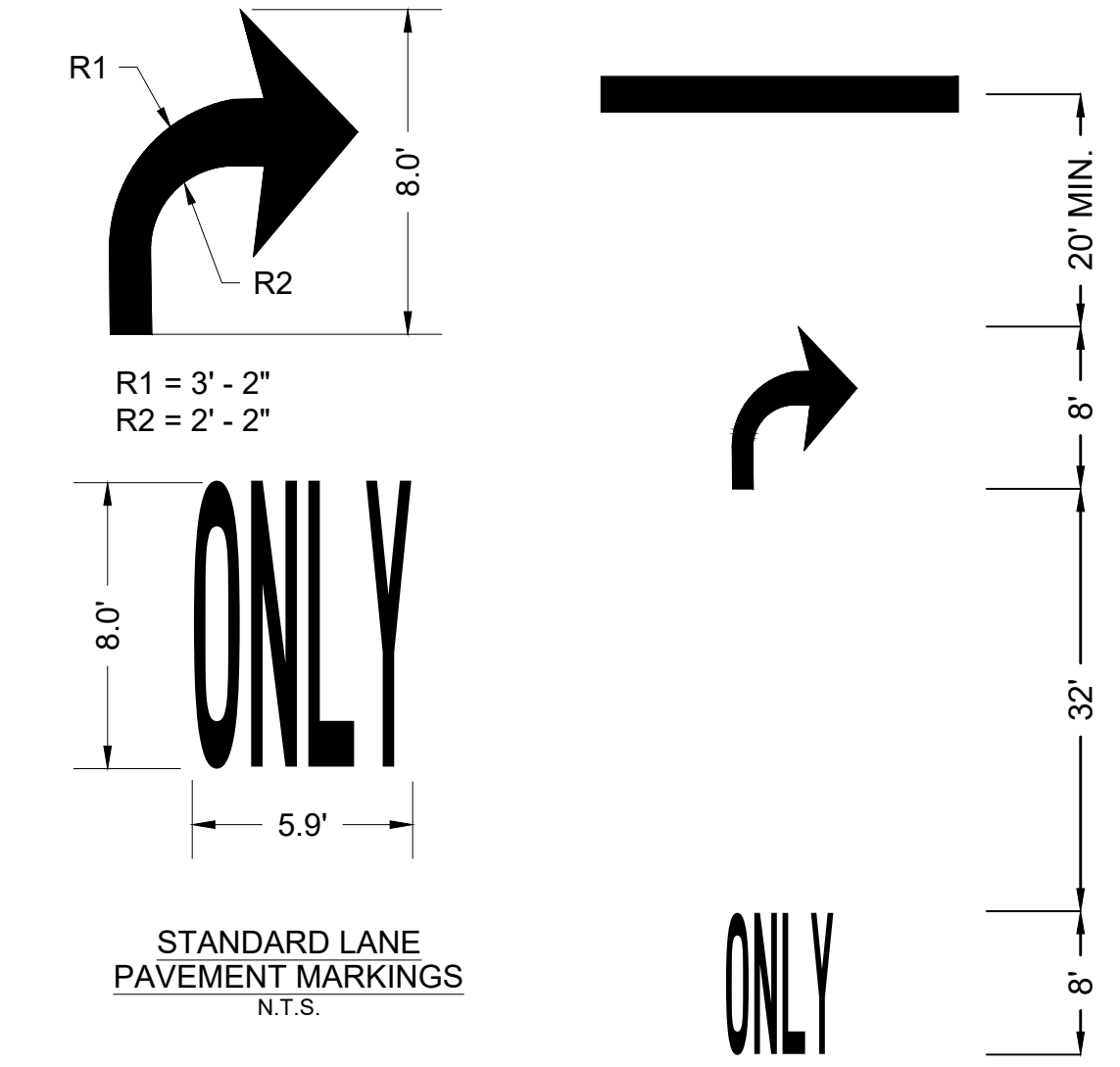
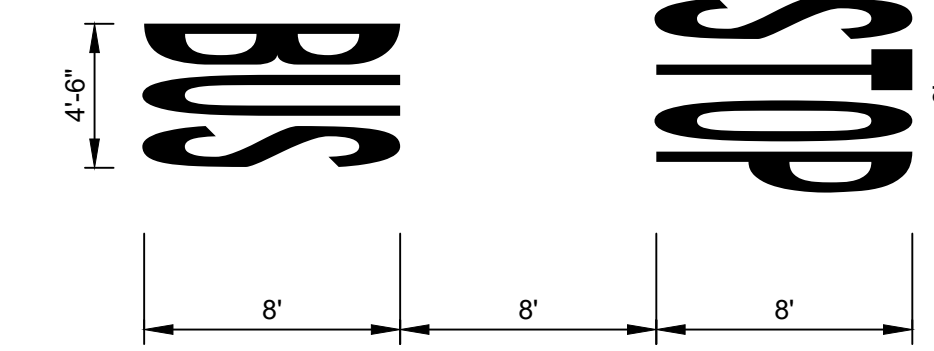
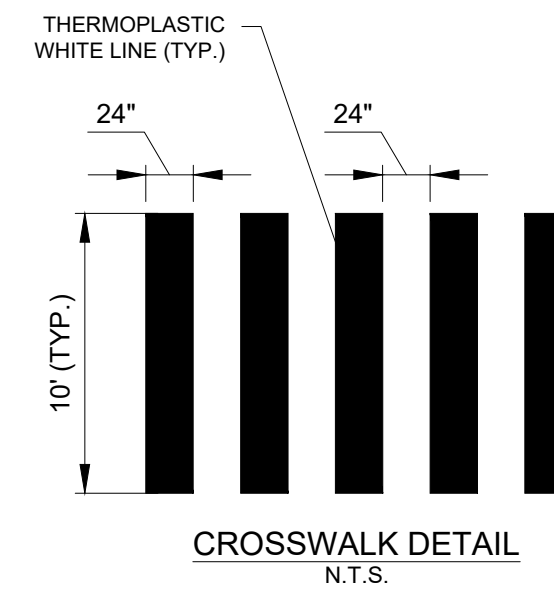


FUSS & O'NEILL 1550 MAIN STREET, SUITE 400 SPRINGFIELD, MA 01103 www.foss.com	TOWN OF MONTAGUE GRADING AND BASELINE TIE PLANS FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS MONTAGUE
SCALE: HORZ.: 1" = 77' VERT.: 1" = 7.7' DATUM: NAD 83 VERT.: 1" = 7.7' GRAPHIC SCALE	SEAL No. _____ DATE _____ DESIGNER REVIEWER _____
PROJ. No.: 20240059.A10 DATE: AUGUST 2024	
CG-101	

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 MS VIEW: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3: STB/CTB: MADOT-D.STB

MARKING LEGEND	
▶	PROPOSED SIGN
SL	PROPOSED 12" WHITE STOP LINE
CW	PROPOSED 24" WHITE CROSS WALK
SWL	PROPOSED 6" SOLID WHITE LINE
DBYL	PROPOSED 6" DOUBLE YELLOW LINE
BYL	PROPOSED 6" BROKEN YELLOW LINE (10' MARK - 30' SKIP)
XXXX	PROPOSED SIGN DESIGNATION
XXXX	EXISTING SIGN DESIGNATION

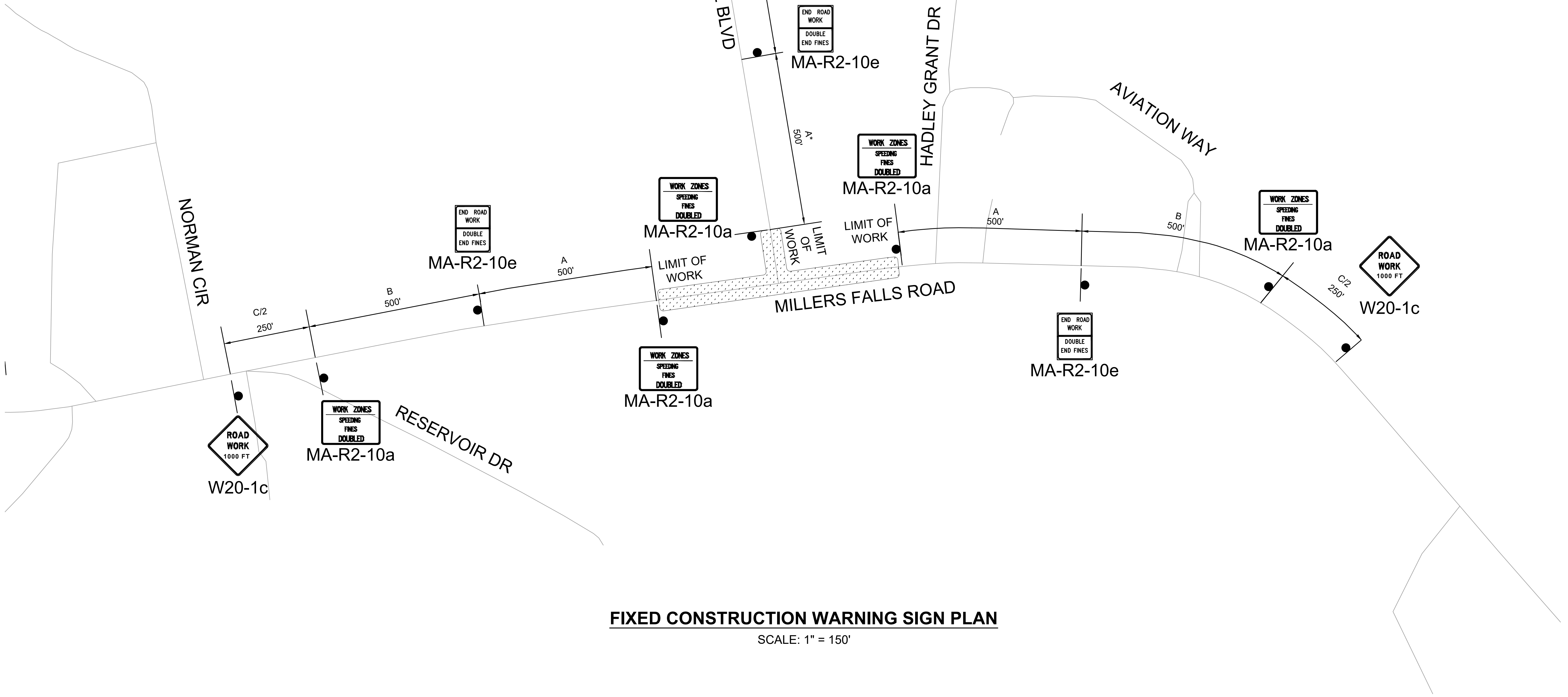
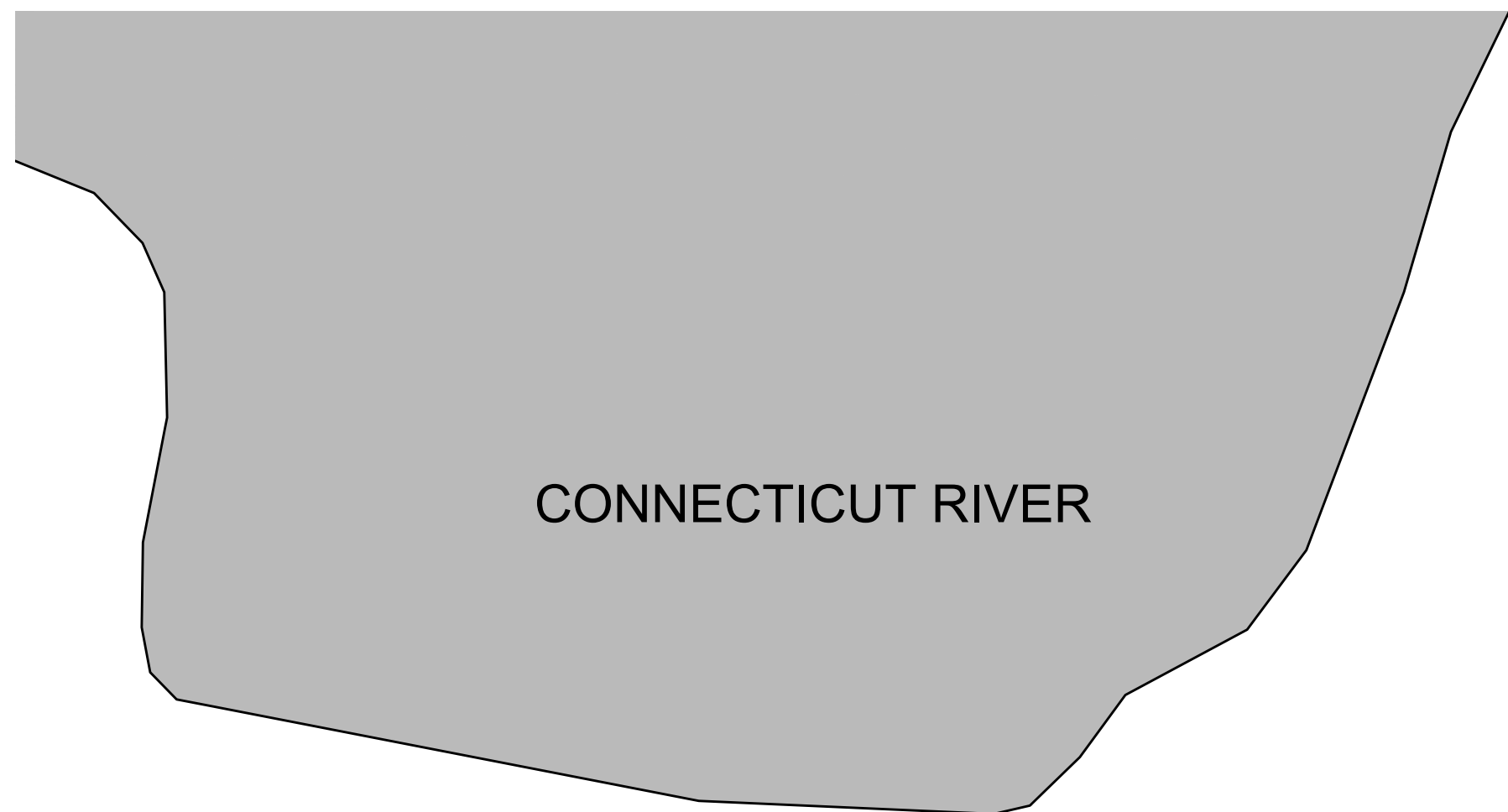
- NOTES:
1. ALL STANDARD P-5 SIGN POSTS SHALL BE GALVANIZED.
 2. ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED ON PLANS.
 3. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
 4. WHITE GORE LINES SHALL FORM AN ANGLE OF APPROXIMATELY 45 DEGREES WITH THE LONGITUDINAL LINES THAT THEY INTERSECT. SPACING OF GORE LINES SHALL BE APPROXIMATELY 10 FEET.
 5. PROPOSED TRAFFIC SIGNS SHALL BE MOUNTED PERPENDICULAR (90°) TO THE ROADWAY, WITH THE EXCEPTION OF R7 SERIES (NO PARKING) SIGNS, WHICH SHALL BE INSTALLED AT A 45° ANGLE RELATIVE TO THE ROADWAY.



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SCALE: 1" = 20'	GRAPHIC SCALE
HORZ.: 1" = 20'	VERT.: 1" = 20'
DATUM:	
HORZ.: 1" = 20'	VERT.: 1" = 20'
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PROJ. No.: 20240059.A10 DATE: AUGUST 2024	
CT-101	

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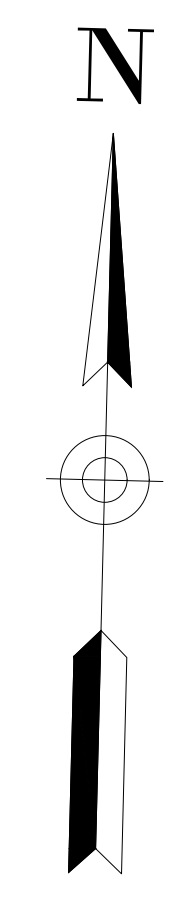


FIXED CONSTRUCTION WARNING SIGN PLAN

SCALE: 1" = 150'

NOTES:

- 1) FOR DISTANCES SEE TABLE ON SHEET CT-105. THE DIMENSIONS FOR A,B, & C MAY REQUIRE FIELD ADJUSTMENTS DUE TO THE URBAN NATURE OF THE PROJECT AREA.
- 2) ALL SIGNS SHOWN ON THIS PLAN SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT



SEAL							DESIGNER REVIEWER
SCALE: HORZ.: 1" = 150' VERT.: -	DATUM: -	HORZ.: -	VERT.: -	GRAPHIC SCALE 0 125' 150' 300'		No.	DATE
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TOWN OF MONTAGUE							
TEMP. TRAFFIC MANAGEMENT PLANS							
FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD							
BUS STOP IMPROVEMENTS MASSACHUSETTS							
MONTAGUE							
PROJ. No.: 20240059.A10							
DATE: AUGUST 2024							
CT-103							

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 PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3_STB\CTB: MADOT-D.STB
 LAYER STATE:

NOTES:

- TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE MASSACHUSETTS AMENDMENTS TO THE MUTCD.
- TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- REMOVE OR COVER ALL TEMPORARY DEVICES WHEN THEY ARE NO LONGER REQUIRED FOR CONTROL OF TRAFFIC.
- ABUTTERS SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS TO THEIR BUSINESS, RESIDENCE, AND/OR PROPERTY.
- THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIALLY FLASHING LIGHTS WHEN USED FOR NIGHT WORK BETWEEN DUSK AND DAWN.
- DISTANCES SHOWN IN THIS DOCUMENT MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER DUE TO SITE CONSTRAINTS.
- 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 DRUMS OR MEDIAN BARRIER.

LEGEND:

	REFLECTORIZED PLASTIC DRUM OR 36" CONE		ARROW BOARD		MEDIAN BARRIER WITH WARNING LIGHTS
	POLICE DETAIL		WORK SPACE		WORK VEHICLE
	FLAGGER DETAIL		DIRECTION OF TRAFFIC		TRUCK MOUNTED ATTENUATOR
	TYPE III BARRICADE		IMPACT ATTENUATOR		TRAFFIC OR PEDESTRIAN SIGNAL
	CHANGEABLE MESSAGE SIGN		MEDIAN BARRIER		SIGN

massDOT Highway Division
 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS
 GENERAL NOTES
 DATE OF ISSUE: 07/01/2023
 REVISIONS:
 FIGURE NO.: GEN-1

ROAD TYPE	DISTANCE			
	A	B	C	D
URBAN (30 MPH OR LESS)	100 FEET	100 FEET	100 FEET	100 FEET
URBAN (35 MPH OR GREATER)	350 FEET	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET	500 FEET

massDOT Highway Division
 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS
 SUGGESTED WORK ZONE WARNING SIGN SPACING
 DATE OF ISSUE: 07/01/2023
 REVISIONS:
 FIGURE NO.: GEN-2

MEASURED AVERAGE WORK ZONE CAPACITIES

NORMAL (EXISTING)	OPEN (TO TRAFFIC)	AVERAGE CAPACITY	
		VEHICLES PER HOUR	VEHICLES PER HOUR PER LANE
3	1	1,170	1,170
2	1	1,340	1,340
5	2	2,740	1,370
4	2	2,980	1,480
3	2	2,980	1,490
4	3	4,560	1,520

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:

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.

massDOT Highway Division
 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS
 MEASURED AVERAGE WORK ZONE CAPACITIES & STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED
 DATE OF ISSUE: 07/01/2023
 REVISIONS:
 FIGURE NO.: GEN-3

- GENERAL NOTES:**
- ONE LANE OF TRAFFIC SHALL BE MAINTAINED AS OPEN IN EACH APPROACH DIRECTION AT ALL TIMES. THE CONTRACTOR MAY DEPLOY LANE SHIFTS. NO DETOURS ARE ANTICIPATED TO BE NEEDED. ANY PROPOSED DETOUR MUST BE APPROVED BY THE ENGINEER AND TOWN OF MONTAGUE.
 - ALL TRAFFIC MANAGEMENT CONFIGURATIONS SHALL CONFORM TO THE STANDARD MassDOT DETAILS ON THE FOLLOWING SHEETS AND APPLY TO ALL LOCATIONS INCLUDED IN THE CONTRACT.
 - THE CONTRACTOR SHALL BE PERMITTED TO PERFORM TEMPORARY ROADWAY OR LANE CLOSURES FROM 7:00 A.M. TO 3:30 P.M. CHANGES TO THESE TIMES REQUIRE APPROVAL FROM THE TOWN OF MONTAGUE.
 - ALL TRENCHES IN THE ROADWAY SHALL EITHER BE BACKFILLED AND PATCHED WITH HOT MIX ASPHALT, COVERED WITH BEVELED EDGES STEEL PLATES, OR HOT MIX ASPHALT AROUND STEEL PLATES BEFORE REOPENING THE ROADWAY TO TRAFFIC. UNBEVELED STEEL PLATE MAY BE USED IF HMA WEDGES ARE PLACED IN ACCORDANCE WITH THE LONGITUDINAL DROP OFF DETAIL.
 - COVER ALL EXISTING SIGNAGE THAT CONFLICTS WITH THE TRAFFIC MANAGEMENT SETUP IN PLACE.
 - PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) SHALL BE USED ON THE PROJECT SITE; THESE SIGNS SHALL ADVISE MOTORISTS TO EXPECT DELAYS, AND ADVISE TRAILER TRUCKS OF RESTRICTED LANE WIDTHS (AND POSSIBLE DETOUR ROUTES) ON SPECIFIC APPROACHES DURING CERTAIN STAGES OF CONSTRUCTION.
 - THE CONTRACTOR SHALL PLACE TWO PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) ON THE PROJECT SITE, FOR SEVEN DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ALL ADVANCED SIGNAGE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.
 - IF FLAGGERS ARE USED FOR TRAFFIC CONTROL, THE FLAGGER SIGN (W20-7a) SHALL BE SUBSTITUTED FOR THE POLICE OFFICER AHEAD (W20-7b) SIGN.

VARIABLES	DEFINITION
A	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2)
B	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2)
C	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2)
D	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2)
L	LENGTH IN FEET
S	SPEED LIMIT
W	WIDTH OF OFFSET IN FEET
T	TANGENT LENGTH, AT LEAST 2L

massDOT Highway Division
 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS
 ABBREVIATIONS
 DATE OF ISSUE: 07/01/2023
 REVISIONS:
 FIGURE NO.: GEN-4

TAPER AND TANGENT LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE	LENGTH*
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 MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE
TANGENT LENGTH**	AT LEAST 2L

* Use Table 6C-4 to calculate L
 ** Tangent Length Measured between Two Tapers
 Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED (S)	TAPER LENGTH (L) IN FEET
40 MPH OR LESS	L = 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

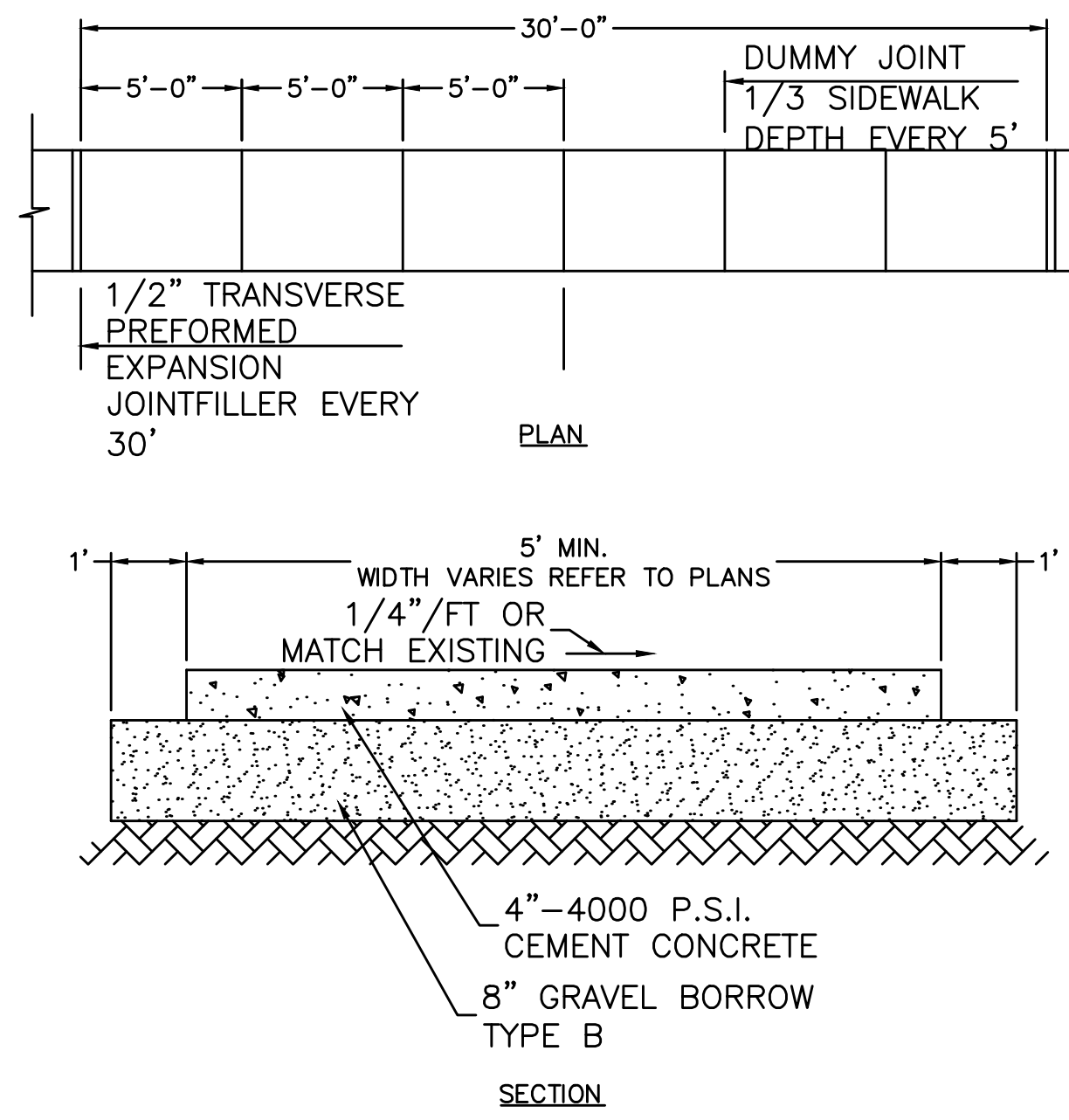
TYPICAL TAPER LENGTHS (L)

SPEED (S) IN MPH	WIDTH OF OFFSET (W) IN FT.			
	9	10	11	12
25 OR BELOW	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840

massDOT Highway Division
 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS
 TAPER GUIDANCE
 DATE OF ISSUE: 07/01/2023
 REVISIONS:
 FIGURE NO.: GEN-6

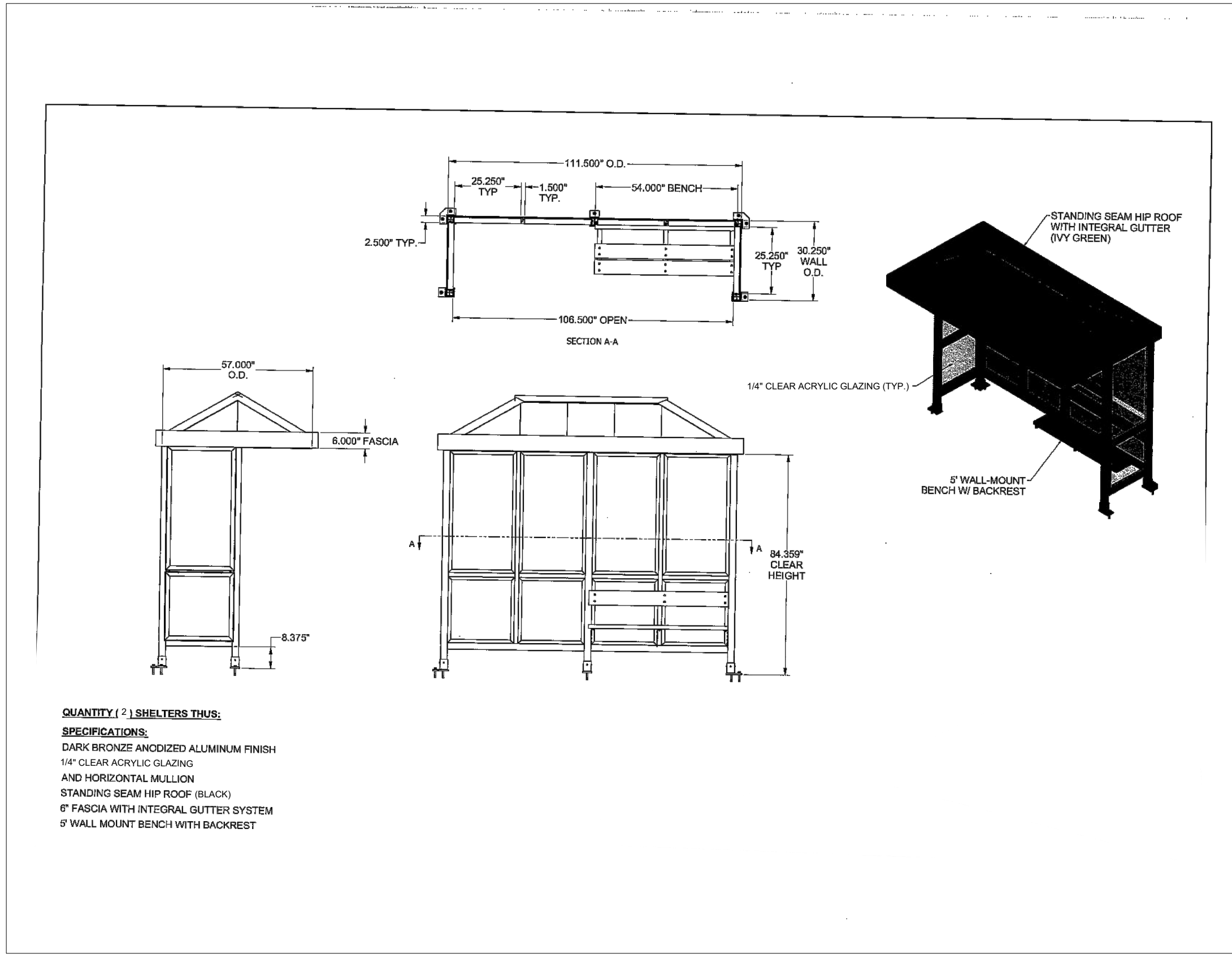
massDOT Highway Division
 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS
 TYPICAL COMPONENTS OF A TEMPORARY TRAFFIC CONTROL SETUP
 DATE OF ISSUE: 07/01/2023
 REVISIONS:
 FIGURE NO.: GEN-7

DESIGNER REVIEWER
 DATE
 No.
 DESCRIPTION
 SEAL
 SCALE: HORZ.: NOT TO SCALE VERT.:
 DATUM: HORZ.: VERT.:
FUSS & O'NEILL
 1550 MAIN STREET, SUITE 400
 SPRINGFIELD, MA 01103
 413.482.0446
 www.foss.com
 TOWN OF MONTAGUE
 TEMP. TRAFFIC MANAGEMENT PLANS
 FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD
 BUS STOP IMPROVEMENTS MASSACHUSETTS
 MONTAGUE
 PROJ. No.: 20240059.A10
 DATE: AUGUST 2024
CT-104



- NOTES:**
1. PROVIDE DEEP DUMMY JOINT EVERY 5' (1/3 DEPTH OF SLAB)
 2. REPLACE 1/2" EXPANSION JOINT IF EXISTING JOINT FALLS WITHIN RECONSTRUCTION.
 3. SMOOTH TROWEL EDGE, MARGINS, JOINTS TYP.
 4. MEDIUM BROOM FINISH, DIRECTION OF FINISH TO BE PERPENDICULAR TO THE LONGITUDINAL DIRECTION OF PAVEMENT: UNLESS, OTHERWISE NOTED ON PLANS. REFLECTANCE RATING OF 0.3 MINIMUM

6 STANDARD CONCRETE SIDEWALK—NO REINFORCEMENT
SCALE: N.T.S.



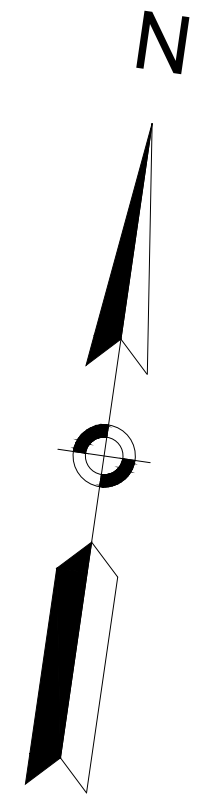
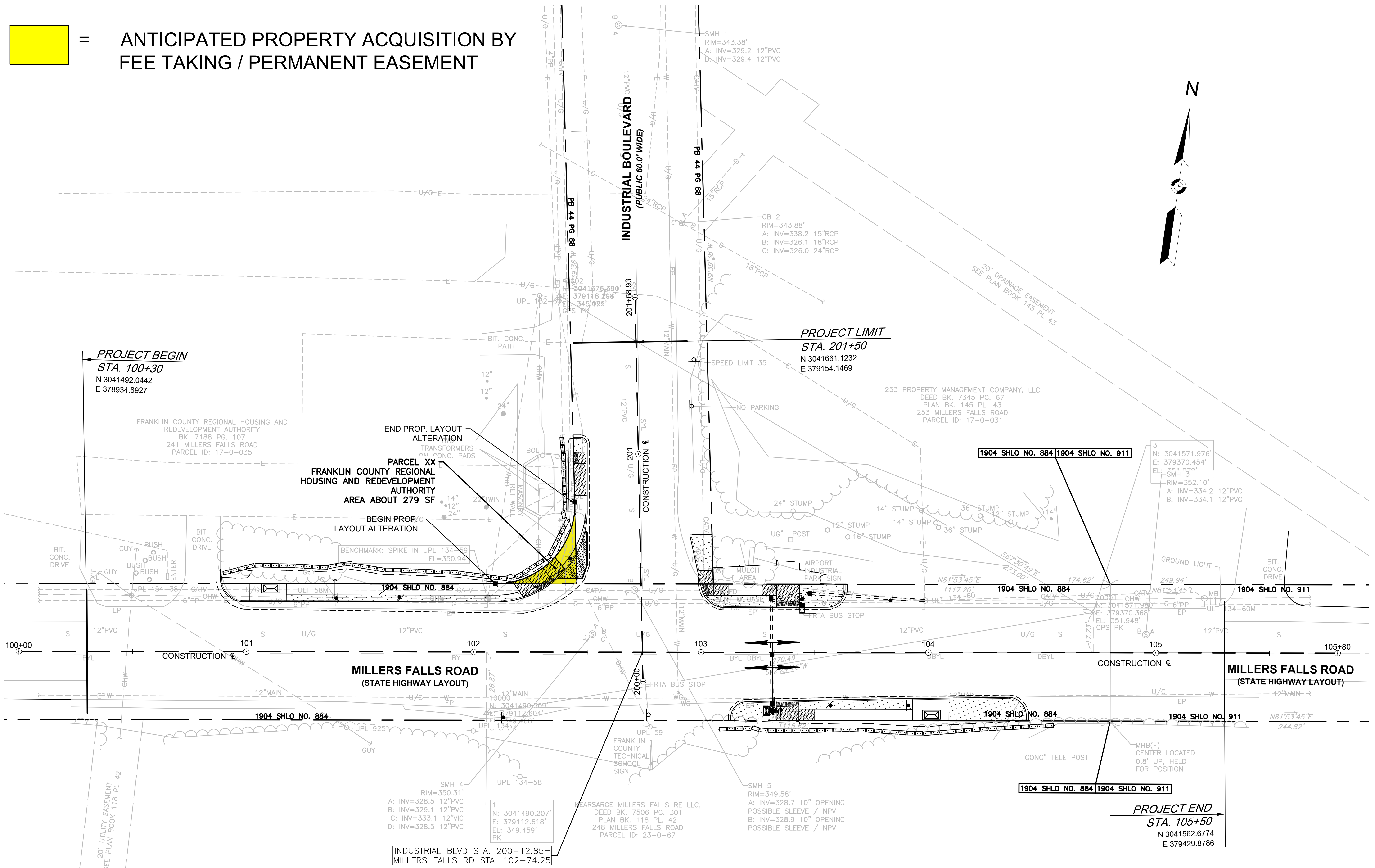
QUANTITY (2) SHELTERS THIS:
SPECIFICATIONS:
DARK BRONZE ANODIZED ALUMINUM FINISH
1/4" CLEAR ACRYLIC GLAZING
AND HORIZONTAL MULLION
STANDING SEAM HIP ROOF (BLACK)
6" FASCIA WITH INTEGRAL GUTTER SYSTEM
9" WALL MOUNT BENCH WITH BACKREST

7 PEDESTRIAN BUS SHELTER
SCALE: N.T.S.

File: J:\DWG\2024\0059\A10\Civil\Details\20240059.A10_DET01.dwg Layout: CD-502 Plotted: 2024-08-30 2:09 PM Saved: 2024-08-29 3:29 PM User: John.Parenteau
LAYER STATE: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3: STB/CTB: MADOT-D.STB

DESIGNER REVIEWER	
DESCRIPTION	
DATE	
No.	
SEAL	
SCALE:	HORZ.: NOT TO SCALE
	VERT.:
DATUM:	HORZ.: -
	VERT.: -
FUSS & O'NEILL 1550 MAIN STREET, SUITE 400 SPRINGFIELD, MA 01103 413.452.0446 www.foss.com	
TOWN OF MONTAGUE CONSTRUCTION DETAILS FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS	
PROJ. No.: 20240059.A10 DATE: AUGUST 2024	
CD-502	

 = ANTICIPATED PROPERTY ACQUISITION BY FEE TAKING / PERMANENT EASEMENT



FUSS & O'NEILL <small>1550 MAIN STREET, SUITE 400 SPRINGFIELD, MA 01103 www.foss.com</small>	TOWN OF MONTAGUE ANTICIPATED ROW OF IMPACT FRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS MONTAGUE
SCALE: HORZ.: 1" = 20' VERT.: - DATUM: - GRAPHIC SCALE: 0 10' 20' 40'	SEAL No. _____ DATE _____ DESIGNER REVIEWER _____
PROJ. No.: 20240059.A10 DATE: AUGUST 2024	
RW-101	

File: J:\DWG\2024\0059\A10\Civil\Plan\20240059.A10_HD\ROW of Way Impact.dwg Layout: RW-101 Plotted: 2024-08-30 2:05 PM User: Shiraz.Saife
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 MS VIEW: LAYER STATE:

FUSS & O'NEILL

FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements

Montague, MA

Preliminary Design Estimate

9/11/2024

PRELIMINARY DESIGN COST ESTIMATE SUMMARY

<u>CONCEPT STAGE</u>	<u>DATE</u>	<u>TOTAL</u>
KITTLESON CONCEPT OPINION OF COST	March 2022	\$ 178,376
KITTLESON CONCEPT OPINION INFLATION ADJUSTED	Sept 2024	\$ 223,375

PRELIMINARY DESIGN ALTERNATIVE

ALTERNATIVE #1 OVERHEAD RRFB W/ SIMME SEATS	Sept 2024	\$ 235,663
ALTERNATIVE #2 OVERHEAD RRFB W/ BUS SHELTERS		\$ 343,453
ALTERNATIVE #3 PEDESTRIAN HYBRID BEACON (HAWK) W/ SIMME SEATS		\$ 436,831
ALTERNATIVE #4 PEDESTRIAN HYBRID BEACON (HAWK) W/ BUS SHELTERS		\$ 544,818

FUSS & O'NEILL

**FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements
Montague, MA
Preliminary Design Estimate
9/11/2024
ALTERNATIVE #1 OVERHEAD RRFB W/ SIMME SEATS**

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	PART. COST	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0.00	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,337.50	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,874.74	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155.00	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425.00	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575.00	\$1,575
745.01	2	EA	SIMME SEAT BENCH	\$2,000.00	\$4,000.00	\$4,000
748.	1	LS	MOBILIZATION	\$5,968.68	\$5,968.68	\$5,969
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,500.00	\$10,500
765.	200	SY	SEEDING	\$2.00	\$400.00	\$400
767.121	370	FT	SEDIMENT CONTROL BARRIER	\$6.50	\$2,405.00	\$2,405
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD RRFB	\$30,000.00	\$30,000.00	\$30,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125.00	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600.00	\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05	\$2,257.00	\$2,257
856.	120	DAY	ARROW BOARD	\$17.00	\$2,040.00	\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$3,600.00	\$3,600
859.	2,921	DAY	REFLECTORIZED DRUM	\$1.00	\$2,921.00	\$2,921
864.04	200	SF	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	\$8.40	\$1,680.00	\$1,680
865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00	\$3,920.00	\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15	\$3,870.00	\$3,870
866.112	50	FT	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85	\$342.50	\$343
867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526.00	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530.18	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87.00	\$87

Subtotal: \$204,925 \$204,925

Uniformed Traffic Officer Control: \$10,246 \$10,246

10% Construction Contingency: \$20,492 \$20,492

Grand Total: \$235,663 \$235,663

Preliminary Construction Cost
Estimate Prepared For:

FRTA



FUSS & O'NEILL

**FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements
Montague, MA
Preliminary Design Estimate
9/11/2024
ALTERNATIVE #2 OVERHEAD RRFB W/ BUS SHELTERS**

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575
745.	2	EA	PEDESTRIAN BUS SHELTER	\$47,500.00	\$95,000
748.	1	LS	MOBILIZATION	\$8,698.68	\$8,699
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,500
765.	200	SY	SEEDING	\$2.00	\$400
767.121*	370	FT	SEDIMENT CONTROL BARRIER	\$6.50	\$2,405
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD RRFB	\$30,000.00	\$30,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05	\$2,257
856.	120	DAY	ARROW BOARD	\$17.00	\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$3,600
859.	2,921	DAY	REFLECTORIZED DRUM	\$1.00	\$2,921
864.04	200	SF	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	\$8.40	\$1,680
865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00	\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15	\$3,870
866.112	50	FT	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85	\$343
867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87

Subtotal: \$298,655

Uniformed Traffic Officer Control: \$14,933

10% Construction Contingency: \$29,865

Grand Total: \$343,453

Preliminary Construction
Cost Estimate Prepared For:

FRTA



FUSS & O'NEILL

**FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements
Montague, MA
Preliminary Design Estimate
9/11/2024**

ALTERNATIVE #3 PEDESTRIAN HYBRID BEACON (HAWK) W/SIMME SEATS

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	PART. COST	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0.00	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,337.50	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,874.74	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155.00	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425.00	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575.00	\$1,575
745.01	2	EA	SIMME SEAT BENCH	\$2,000.00	\$4,000.00	\$4,000
748.	1	LS	MOBILIZATION	\$11,063.68	\$11,063.68	\$11,064
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,500.00	\$10,500
765.	200	SY	SEEDING	\$2.00	\$400.00	\$400
767.121	370	FT	SEDIMENT CONTROL BARRIER	\$6.05	\$2,238.50	\$2,239
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD PHB (HAWK)	\$200,000.00	\$200,000.00	\$200,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125.00	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600.00	\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05	\$2,257.00	\$2,257
856.	120	DAY	ARROW BOARD	\$17.00	\$2,040.00	\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$3,600.00	\$3,600
859.	2,921	DAY	REFLECTORIZED DRUM	\$1.00	\$2,921.00	\$2,921
864.04	200	SF	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	\$8.40	\$1,680.00	\$1,680
865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00	\$3,920.00	\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15	\$3,870.00	\$3,870
866.112	50	FT	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85	\$342.50	\$343
867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526.00	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530.18	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87.00	\$87

Preliminary Construction Cost
Estimate Prepared For:

FRTA

Subtotal:	\$379,853	\$379,853
Uniformed Traffic Officer Control:	\$18,993	\$18,993
10% Construction Contingency:	\$37,985	\$37,985
Grand Total:	\$436,831	\$436,831

FUSS & O'NEILL

FUSS & O'NEILL

FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements

Montague, MA

Preliminary Design Estimate

9/11/2024

ALTERNATIVE #4 PEDESTRIAN HYBRID BEACON W/ BUS SHELTERS

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575
745	2	EA	PEDESTRIAN BUS SHELTER	\$47,500.00	\$95,000
748.	1	LS	MOBILIZATION	\$13,798.68	\$13,799
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,500
765.	200	SY	SEEDING	\$2.00	\$400
767.121	370	SY	SEDIMENT CONTROL BARRIER	\$6.50	\$2,405
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD PHB (HAWK)	\$200,000.00	\$200,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600
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867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87

Subtotal: \$473,755

Uniformed Traffic Officer Control: \$23,688

10% Construction Contingency: \$47,375

Grand Total: \$544,818

Preliminary Construction
Cost Estimate Prepared For:

FRTA

FUSS & O'NEILL