MONTAGUE CAPITAL IMPROVEMENTS COMMITTEE

MEETING AGENDA

Town Hall Annex Meeting Room One Avenue A, Turners Falls, MA IN PERSON MEETING

Wednesday, November 13, 2024 from 3:30 to 5:00 pm

Votes May Be Taken

- 1. Call to Order and Approve any outstanding meeting minutes: 10/30/24
- 2. Discussion with Selectboard Member Matthew Lord Long-term financing strategy for capital projects
- 3. Discuss anticipated FY26 capital project budget
- 4. Review and approve FY26 capital planning cycle timeline
- 5. Initial review and discussion of FY26 non-school capital article requests and Winter Special Town Meeting requests
- 6. Status review of ongoing major capital projects
- 7. Topics not anticipated in the 48 hour posting requirements
- 8. Establish next meeting date(s)
- 9. Adjournment



SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

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. Budget Year FY 26

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

Department:	Airport	Submitted by:	Bryan Camden / Airport Commission
Item/Project Cost:	\$ 18,000	Date Prepared:	10/01/2024
Item/Project Title:	Repalce oil fired heatin	g system with heat pump syster	m (Mini-Split System)

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 **\$24,000**, 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.)

I have spent some time reviewing the HVAC systems around the airport this fall. One items that we have been looking at since the purchase of the Pioneer Aviation property is the hot air furnace located inside of Pioneer Aviation office building. The unit was installed in 2001 and is not really the best fit for our heating needs. While functional, it is oversized for the need and has very limited circulation ducting work. We do have the unit services annually, this year it was identified that we should be looking to re-duct the unit if we would like to increase the efficiency, as well as replace the blower unit assembly (motor is overheating and bearings are gone), and reseal the burner chamber. At this time, we have decided it would not be in the best financial interest to invest \$2,000 to \$2,500 into the unit for the recommended repairs / upgrades due to its age and efficiency. We have looked into other options that would combine a new efficient heating system with air conditioning and have gotten several quotes. Afte talking with 4 contractors, the consensus was to install an external heat pump & and internal air handler (mini-split system). We have looked into the rebates from MassSave, and from what we were told we can might be able to recover roughly 60% of the total cost of the unit and installation. Without any rebates, the quotes ranged from \$17,800 to \$29,500, with Nolan Plumbing being the lowest to date at \$18,800. An additional cost of \$5,000 may be needed to upgrade the existing electrical panel and connect the unit.

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	X	
Is there a lease option for this expense?		×
Will this item or project replace a capital asset?		×
Will this create ongoing costs or savings?	X	
Will this leverage grant or other external funding?	×	
Is this request identified on the Capital Improvement Plan?		×

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight? **The unit would be installed upon approval by the selected vendor. The vendor will have 30 days from approval to complete the project. Once installed, we will seek funds from MassSave to cover part of the total project cost.**

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.

We do have a functioning heating system as of right now, and I do think it will operate for the duration of this heating season without much of an issue. Beyond that I am not as confident that the system will continue to operate correctly. Like we typically do, I am looking at the best course of action and best cost for the future operations. This is considered a preventative maintenance and upkeep item that we should address in the next year or so. We did intend in allocating some funds from the FY26 budget to update the system to be more user friendly, as right now we struggle to keep the pilots' training room, restrooms, and lounge warm in the winter and cool in the summer months, but only if the budget would allow.

Relative Priority : Your assessment of the how important this is to the Town at the present time.			
Critical Importance	Highly Important	Moderately Important	
0	ø	0	

Nolan Plumbing And Hvac

Town of Montague MA Town of Montague 10 Aviation Way Montague, MA 01376

(413) 522-8620airport@montague-ma.gov

ESTIMATE

Services

HVAC INSTALLATION

Samsung max heat system installation 1:1 installation of 1 indoor units: 36000 BTU AIRHANDLER

installation of refrigerant lines, drains and communication wire exposed lines will be covered in guard pressure test and evacuation of system system registration and overview outdoor unit will be placed on ground stand and blocks installation of new supply and return trunk runs installation of standard ceiling registers installation of return air box and filter

EQUIPMENT

Samsung CXH36SCB / AC036BXSCCH Outdoor Unit Heat Pump Max Heat CAC 36K BTU

Samsung CNH36ZDK / AC036KNZDCH Indoor Unit CAC Multi-Position Air Handler 36K BTU 208/230 Volt 1 Phase

Samsung MWR-WG00UN Controller Advanced Wired 4-3/4L x 3/4W x 4-3/4H Inch Time Synchronization with DMS2.5 Gateways Dual Set Temperature and Quiet and Sleep Modes

Samsung VHK-210A Electric Heater Medium Chassis 10 Kilowatt TOTAL

\$18,700.00

CONTACT US

26 Clark St Greenfield, MA 01301

(413) 325-8279

📔 nolanplumbingandhvac@gmail.com

amoun

\$18,700.00

ESTIMATE INCLUDES LABOR MATERIALS / EQUIPMENT

Total

\$18,700.00

NOTE

*Estimate is subject to a 10%-15% +/- change due to equipment price changes

Financing avaiable upon request

Rebates MAY BE available from mass save all rebates are not guaranteed and subject to change without notice

NPH can assist to file rebates but holds no responsibility for rebates or amounts

Energy Audits are required for most rebates must contact and schedule appointment at 866-527-7283

Thank you for doing business with us!



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:	Airport	Submitted by:	Bryan Camden / Airport Commission
Item/Project Cost:	\$95,000.00	Date Prepared:	10/01/2024
Item/Project Title:	Pave Parking Lot		

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 **\$95,000.00**, 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 is to install 4" of pavement in the existing Pioneer Aviation parking lot. The existing parking lot consists of a mixture of failed pavement, sandy soils, and turf. The recent wet summer season caused significant washout issues for the parking lot, and the lack of any permanent freezing for the last 2 winter seasons created maintenance issues. This project would include the removal of all existing materials, grading for drainage, installation of 10" of hard pack base materials, and 4" of asphalt final paving layers. This project will be overseen by the airport on call engineering firm Gale Associates.

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?	X	
Will this leverage grant or other external funding?	×	
Is this request identified on the Capital Improvement Plan?		×

Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight? **The majority of the project will be overseen by the airport** on call engineering firm Gale Associates.

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.

Like other airport projects, this is part of the long term property upgrades and daily upkeep. Due to years of limited or no maintenance prior to the purchase of the property has created a backlog of projects. While many of the projects can be funded from airport revenues and federal grants, some do not qualify for any external funding. Public areas such as parking lots, walkways, and roadways currently do not qualify for state or federal funding. In order to maintain a safe and usable access parking area for the airport users it is critical that we execute this project before additional damages occur with time.

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	0

Comments and additional information:





Warner Bros., LLC

PO Box 91, Sunderland, MA 01375 · 413.665.7021

To:	Turners Falls Municipal Airport		Contact:	Bryan Camden	
Address:	1 Avenue A		Phone:		
	Turner's Falls, MA 01376		Fax:		
Project Nam	e: Hanger Turners Falls AP		Bid Number:	Q-360	
Project Loca			Bid Date:	10/23/2024	
Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
	Reclaim	1,685.00	SY	\$6.75	\$11,373.75
170.	FINE GRADING AND COMPACTING	1,635.00	SY	\$3.95	\$6,458.25
450.	GRAVEL FOR SURFACING	68.00	CY	\$77.75	\$5,287.00
452.	ASPHALT EMULSION FOR TACK COAT	85.00	GAL	\$32.50	\$2,762.50
1635 +/- SY 1.5"	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	140.00	TON	\$199.00	\$27,860.00
1635 +/- SY 2.5"	SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC	230.00	TON	\$169.00	\$38,870.00
		Tot	tal Bid Price		\$92,611.50

Notes:

- · Please find the attached Standard Conditions document. By signing below, buyer acknowledges and agrees that it has also read and approved Contractor's Standard Conditions, as required included parts of this contract. This contract constitutes the entire agreement between the Contractor and Buyer and may only be modified by a written amendment executed by both parties. This proposal is accepted upon receipt of Buyer's signature, and the Contract is effective as of the date of Contractor's signature tendered to Buyer. Executed by both parties as a sealed instrument.
- Prices are based upon current liquid asphalt costs, which are not guaranteed by suppliers and, therefore, subject to sudden adjustment during the term of this agreement. The base cost (index) of asphalt for this quote is \$_560.00 per ton.
- Prices are based on two mobilization(s). Additional mobilizations which become necessary will be subject to a charge of \$_3500.00 each. All fees, permits, and engineering will be the responsibility of the buyer unless otherwise noted above. No bonds will be supplied. Above quantities
- are estimates only and are subject to adjustment determined by Field Measure unless otherwise noted above.
- Center Line layout & Slope Layout done By general Contractor.
- Day work guoted in price.
- All traffic control shall be the responsibility of the General Contractor
- General Contractor to clean, prep, cover and mask existing surfaces as necessary
- Temporary Ramps and Removal of Temporary Pavement are not included in price
- CL Toms and Temp Striping As required By GC
- ASC To reserve the rights to subcontract Items as needed.
- QC testing at the plant and the street is included in our pricing. Any Bonus or deduct attributable to the material is to be remitted to All States Construction Based on the installed bid price.
- Survey control points as required to layout project to be supplied by others. All staking, layout, and establishment of grades to be done by others and clearly marked prior to work. Warner Bros., LLC will not accept responsibility for improper engineering and/ or areas where no grades were indicated prior to work.
- All Prep for Paving including sweeping and saw cutting are excluded unless stated otherwise herein.
- Gravel is to be placed by others and fine graded to the required grade, all compaction of sub-base and gravel is to be done by others prior to paving, any and all testing/ in place density tests are to be done by others. Unless specifically included in quoted scope of work. Fine Grading will be from 1" +/- if quoted
- Projects that are Tax exempt buyer will be responsible to submit exempt certificate with signed contract.
- All traffic and safety control by others unless stated Herein
- This is a unit price quotation with quantities to be verified upon completion. Contract amount will be determined by extending verified quantities at quoted unit prices. Customer is responsible to verify all quantities in this proposal.
- No Credit card payment is allowed unless stated Herein. Approved Credit Card payment will incur a 5% fee.
- PLEASE SIGN AND RETURN a copy of this quote by E-Mail, Fax (413-674-2021) to Warner Bros., LLC, if you agree with price, terms, and all conditions, so we may assign a job # to the project and schedule your work. (Work will NOT be scheduled until the quote is signed)
- This quote is valid if accepted within 30 days.
- · Loam & Seed by others
- Line Striping by others
- Paving after October 31st or when Ambient Temperatures are below 40 degrees will be on the Direction of Owner/ Buyer. Warner Bros., LLC will not accept responsibility for work affected by Temperature. Warner Bros., LLC may require a signed waiver to proceed.

· By others Line painting, Loam & Seed, Tree protection, Sediment Control, New Castings If needed

Payment Terms:

Payment terms are net 30 days, no retainage is permitted by Buyer, unless stated above, and subject to credit approval. Contractor may set off past due balances against any amount due or which becomes due to the Buyer from Contractor or any of its affiliates or subsidiaries. Balances not paid within above terms are subject to default interest at 1.5% monthly percentage rate. In such event, Buyer agrees to reimburse Contractor all collection costs including reasonable attorney's fees and court costs. Contractor reserves all rights to file lawfully permitted liens and seek other lawful remedies.

ACCEPTED: The above prices, specifications and conditions are satisfactory and hereby accepted.	CONFIRMED: WB LLC
Buyer:	James Houle
Signature:	Authorized Signature:
Date of Acceptance:	Estimator: James Houle jimh@asmg.com



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:	\$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		\boxtimes
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	
Describe how the project/ purchase will be managed	(From Original	Project)

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 O

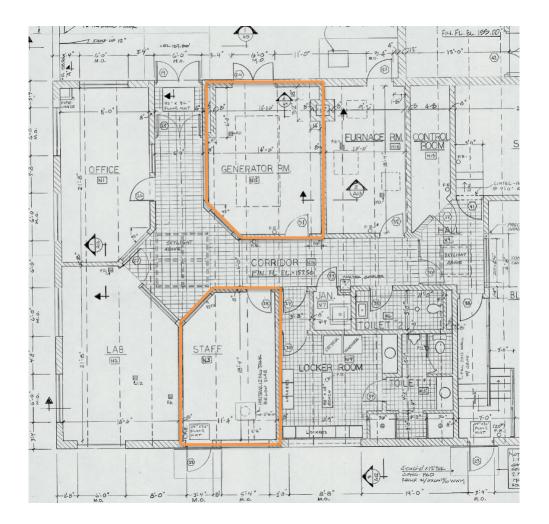
Highly Important

Moderately Important O Request to fund through retained earnings.

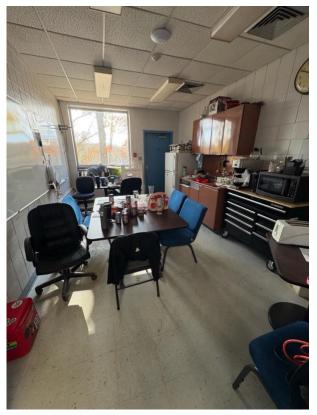
Supporting Photos/Diagrams/Documents

Generator Room→New Break Room





Staff Breakroom→Conference Room



Special Article Request: Capital Expense (rev 9.26.24)



SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

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.

Budget Year FY 26

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. <u>Use attachments as needed</u>.)

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

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	\boxtimes	
Is there a lease option for this expense?	\boxtimes	
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?	\boxtimes	
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?		\boxtimes

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 O

Highly Important O Moderately Important



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 Contact: Sales Phillipston, Massachusetts 01331

(978) 249-4600





Hide Thumbnails

Description

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



SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

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.

Budget Year FY 26

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 Re	eplacement	

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. <u>Use attachments as needed</u>.)

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

Scoping Questions <i>Please elaborate in the comments box at bottom of the page</i>	Yes	No
Do you have a written estimate or proposal for the scope of work? If yes, attach the estimate	\boxtimes	
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?	\boxtimes	
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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 O



Moderately Important

0

Comments and additional information:

Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Current Portable Generator



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



RUGGED. RELIABLE. POWERFUL.

Estimate

			Ru	GGED. RELIAE	BLE. POWER	FUL.
Order #	Date					
S15440	10/02/2024					
Bill To:			Ship To:			
POWERGEN TECHN	OLOGIES		POWERGEN		S	
44 Hopyard Rd			44 Hopyard	d Rd		
Stafford Springs, CT	06076		Stafford Sp	rings, CT 06076		
Customer: POWERG	EN TECHNOLOGIES		Contact: PC	WERGEN TECHN	OLOGIES	
Sales Rep	Carrier	Ship Service	Estimated	Тах		
Elias Serrano	DELIVER		\$ 0.00			
					Qty	
Description	FRAME GENERATOR -			Unit Price \$12,068.00	Ordered 1 ea	Total Price \$ 12,068.00
- CK-4 Spec 15-40 Die - Remote Oil Drain Va - Industrial Grade Alu	High Coolant Temp Sh esel Oil & 50/50 Engine alve Installed with Hos iminized Exhaust Muff & Mounted on Steel Cr	Coolant Included e ler				
THREE PHASE - 208 VC	DLT			\$0.00	1 ea	\$ 0.00
MAIN DISCONNECT BI Installed, Wired	REAKER - 100 Amp 3 P	ole 208 Volt NEMA	1	\$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 PACK Includes: •ComAp 12V Battery II •Block Heater 750W •Noco AC Port Recepta		LE		\$648.00	1 ea	\$ 648.00
ENCLOSURE - LEVEL 1 - Industrial Grade Pow - UL-94, MVSS 302, & H Acoustic Foam Installe - Large Access Doors v	ACOUSTIC /der Coated Aluminum HF-1 Certified, Foil Bac	ked, Level 1 Sound A	ttenuating	\$3,295.00	1 ea	\$ 3,295.00

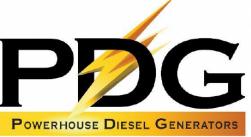
- All Stainless Steel Latches and Hardware

- Includes Locking Door for Key Start or Auto Controller

A1

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

Estimate



RUGGED. RELIABLE. POWERFUL.

Order # Date 10/02/2024 S15440 Qty Description **Unit Price** Ordered **Total Price** RODENT GUARD PACKAGE \$219.00 1 ea \$219.00 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 DOT FUEL TANK - 50 GALLON SINGLE WALL \$2,635.00 \$ 2,635.00 1 ea 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) Includes 1 quart of DIESEL MATE™ ALL SEASONS ADDITIVE (Treats 250 Gallons) External Coolant Drain- Flanged to Pass Through Frame or Skid \$249.00 \$249.00 1 ea External Oil Drain- Flanged to Pass Through Frame or Skid \$249.00 1 ea \$249.00 PDG HD GENSET TRAILER - SINGLE AXLE with BRAKES \$5,949.00 1 ea \$ 5,949.00 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# ESTIMATED OUTBOUND FREIGHT CHARGES - HOTSHOT \$1,595.00 1 ea \$1,595.00 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. WARRANTY KUBOTA \$0.00 1 hr \$ 0.00 KUBOTA ENGINE WARRANTY 3 YEARS / 3.000 HOURS CONTACT SALES CONSULTANT FOR MORE DETAILS

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



RUGGED. RELIABLE. POWERFUL.

Estimate

Order #	Date
S15440	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
PDG EXTRANEOUS 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.	\$0.00	1 hr	\$ 0.00
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-	\$0.00	1 hr	\$ 0.00

13 - 15 WEEKS ESTIMATED PRODUCTION LEAD TIME.

COVID STATEMENT	\$0.00	1 hr	\$ 0.00
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.			
mank you for your patience in these if ying times.			
The Staff of Powerhouse Diesel Generators, Inc.			
TERMS:	\$0.00	1 ea	\$ 0.00
A 50% deposit is required to begin processing your order. Balance is Due 7	40.00	i cu	40.00
A solv deposit is required to begin processing your order. Datafice is Due 7			

Business Days Before Shipping.

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

Estimate

Approval:__

Order #	Date	
S15440	10/02/2024	



	Subtotal:	\$27,830.99
	AVATAX:	\$0.00
	Total:	\$27,830.99
	Paid:	\$0.00
RECEIPT OF YOUR PAYMENT CONSTITUTES ACCEPTANCE OF THE ITEMS,	Balance Due:	\$27,830.99
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		

Date:_



SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

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.

Budget Year FY 26

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 Replacem	ent	

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

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	\boxtimes	
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?	\boxtimes	
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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 O Moderately Important O

Comments and additional information:

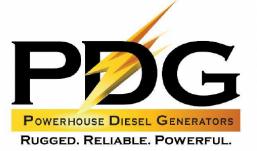
Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Quotation

Powerhouse Diesel Generators

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



Estimate

Order #	Date
S15439	10/02/2024
Bill To:	
POWERGEN TECHNOLOGIES	
44 Hopyard Rd	
Stafford Springs, CT 06076	
Customer: POWERGEN T	CHNOLOGIES

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

		Qty	
Description	Unit Price	Ordered	Total Price
45 kW 3 PHASE OPEN FRAME GENERATOR - EPA CERTIFIED FOR EMERGENCY	\$14,489.00	1 ea	\$ 14,489.00
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			
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	\$648.00	1 ea	\$ 648.00
Includes:			
•ComAp 12V Battery InteliCharger			
•Block Heater 750W			
•20A GFCI Receptacle w/ Nema 3R Cover			
ENCLOSURE - LEVEL 1 ACOUSTIC	\$3,489.00	1 ea	\$ 3,489.00
- 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			

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

A2

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



RUGGED. RELIABLE. POWERFUL.

Order # Date S15439 10/02/2024 Qty Description **Total Price** Unit Price Ordered RODENT GUARD PACKAGE \$219.00 1 ea \$219.00 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 FUEL TANK - 50 GALLON DOUBLE WALL \$2,389.00 1 ea \$ 2,389.00 Powder Coated 11 Gauge Steel Reinforced with Internal Structural Supports & Baffles Forged UL Compliant Fittings ESTIMATED OUTBOUND FREIGHT CHARGES - HOTSHOT \$1,395.00 1 ea \$ 1,395.00 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 **PERKINS ENGINE WARRANTY - STANDBY** \$0.00 \$ 0.00 1 ea PERKINS STANDBY ENGINE WARRANTY 3 YEARS UP TO 500 HOURS PER YEAR CONTACT SALES CONSULTANT FOR MORE DETAILS PDG EXTRANEOUS COMPONENTS WARRANTY \$0.00 1 hr \$ 0.00 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

Estimate

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



RUGGED. RELIABLE. POWERFUL.

Estimate

Order #	Date
S15439	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
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-	\$0.00	1 hr	\$ 0.00
12 - 14 WEEKS ESTIMATED PRODUCTION LEAD TIME.			
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.	\$0.00	1 hr	\$ 0.00
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. 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

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

Estimate

Order #	Date	
S15439	10/02/2024	



		Subtotal:	\$24,099.49
		ΑVΑΤΑΧ:	\$0.00
		Total:	\$24,099.49
		Paid:	\$0.00
SPECIFICATIONS, AND TE does not offer refunds o	ENT CONSTITUTES ACCEPTANCE OF THE ITEMS, ERMS AS DESCRIBED ON THIS INVOICE PDG, Inc. n custom CAD design fees, custom fabrication, om items that are requested by th	Balance Due:	\$24,099.49
Approval:	Date:		



SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

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.

Budget Year FY 26

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 Replaceme	ent 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. <u>Use attachments as needed</u>.)

(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	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?	\boxtimes	
If yes, attach the estimate		
Is there a lease option for this expense?		\boxtimes

Will this item or project replace a capital asset?	\boxtimes	
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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 O O

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: 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 clack 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.)		\$2,810.00
2	Days of start-up and training services (one-trip), provided by NE3		\$2,600.00
1	Estimated transport to site. Estimated weight of shipment is 4,000lbs.		\$725.00
	Optional:		(0.0300-4)
1	Set of recommended spare parts to include: two (2) discs, two (2) trunnions, one (1) clack 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

Page 1

Penn Valley Pump Co, Inc. - www.pennvalleypump.com - 1-800-311-3311



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:	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 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	\boxtimes	
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?	\boxtimes	
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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
0 X	0	0

Special Article Request: Capital Expense (rev 9.26.24)



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 GISbased 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-toexceed 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.



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**

Y. M. Muxamill-DePaula

Lisa M. Muscanell-DePaola, PE Project Manager lisa.muscanell@wright-pierce.com

1 Pune

Christopher N. Pierce, PE Senior Vice President chris.pierce@wright-pierce.com



Chris Nolan

From:	Lisa Muscanell <lisa.muscanell@wright-pierce.com></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

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.

Budget Year FY 26

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. <u>Use attachments as needed</u>.)

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 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	\boxtimes	
Is there a lease option for this expense?	\boxtimes	
Will this item or project replace a capital asset?	\boxtimes	
Will this create ongoing costs or savings?	\boxtimes	
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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
0	0	0



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. Budget Year FY 26

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. <u>Use attachments as needed</u>.)

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

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	\boxtimes		
Is there a lease option for this expense?	\boxtimes		
Will this item or project replace a capital asset?	\boxtimes		
Will this create ongoing costs or savings?	\boxtimes		
Will this leverage grant or other external funding?		\boxtimes	
Is this request identified on the Capital Improvement Plan?	\boxtimes		
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	
0	0	0	



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. Budget Year FY 26

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. <u>Use attachments as needed</u>.)

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

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	\boxtimes		
Is there a lease option for this expense?	\boxtimes		
Will this item or project replace a capital asset?	\boxtimes		
Will this create ongoing costs or savings?	\boxtimes		
Will this leverage grant or other external funding?		\boxtimes	
Is this request identified on the Capital Improvement Plan?	\boxtimes		
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	٥r
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	
0	0	0	



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. Budget Year FY 26

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. <u>Use attachments as needed</u>.)

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

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	\boxtimes		
Is there a lease option for this expense?	\boxtimes		
Will this item or project replace a capital asset?	\boxtimes		
Will this create ongoing costs or savings?	\boxtimes		
Will this leverage grant or other external funding?		\boxtimes	
Is this request identified on the Capital Improvement Plan?	\boxtimes		
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 1	2
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	
0	0	0	



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. Budget Year FY 26

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 Sto	rm Drain Washout R	epair 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. <u>Use attachments as needed</u>.)

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

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	\boxtimes	
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?		\boxtimes

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
0	0	0



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. Budget Year FY 26

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

Department:	Libraries	Submitted by:	Caitlin Kelley
Item/Project Cost:	EST	Date Prepared:	10/29/2024
Item/Project Title:	Millers Falls Branch Library Storefro	nt 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 **\$**, 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. <u>Use attachments as needed</u>.)

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. Additionally, the ceiling tiles will be upgraded, and the current lighting will be swapped for LED's. The existing ceiling grid will be kept.

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		\boxtimes
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?	\boxtimes	
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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	
0	0	0	





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. Budget Year FY 26

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

Department:	Parks & Recreation	Submitted by:	Jon Dobosz, Director
Item/Project Cost:	\$100,000	Date Prepared:	10/20/24
Item/Project Title:	Unity Park Playground Pour-in-Place	Rubber Surfacing	

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 << >>, 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. <u>Use attachments as needed</u>.)

This project will include the replacement of the rubber pour-in-place (PIP) surfacing in the Unity Park playground. The current 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.

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?	[\boxtimes	

Special Article Request: Capital Expense (rev 9.26.24)

If yes, attach the estimate

Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?	\boxtimes	
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	

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 surface vendor will be responsible for design, engineering and installation.

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 it is also completely ADA compliant, making it ideal for those patrons with mobility issues. Attempts have been made in the last couple of years to patch torn areas, but these efforts have resulted in less than adequate results.

Moderately Important O

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

Critical Importance	Highly Important
X	0



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	Quotation Expires	12/4/2024
www.obrienandsons.com		
	Salesperson	Colin Boutin
Customer Name Jonathan Dobosz, Town of Montague	Admin Asst	Breana Anderson

 Customer Name
 Jonathan Dobosz, Town of Montague

 Tel, Email
 413-863-3216 / recdir@montague-ma.gov

Job Name		ers Falls MA	Version #		2	
Salesper	son	Email	Pay Terms	Estimate	ed Le	ad Time
Colin Bou	tin	colin_boutin@obrienandsons.com	Net 30		TBD	
Quantity	Unit	Vendor, Model Number & Description	Unit Price	Taxable?	An	nount
		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	\$	78,987.0
		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	\$	12,500.0
				Subtotal	\$	91,487.0
you have any	y questio	ns concerning this quotation, please contact your		Tax Rate		
alesperson lis	sted abov	/e.		Sales Tax	\$	1.
14/2024				TOTAL	\$	91,487.0

2/14/2024

Please Read the Attached TERMS & CONDITIONS



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:	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 Impr	ovements

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. <u>Use attachments as needed</u>.)

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	Yes	No
Do you have a written estimate or proposal for the scope of work? If yes, attach the estimate	\boxtimes	
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?	\boxtimes	
Is this request identified on the Capital Improvement Plan?		\boxtimes

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
0	0	0 X

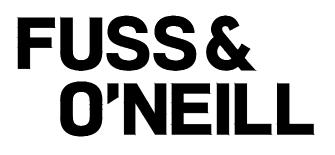


FRTA – INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP **IMPROVEMENTS**

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

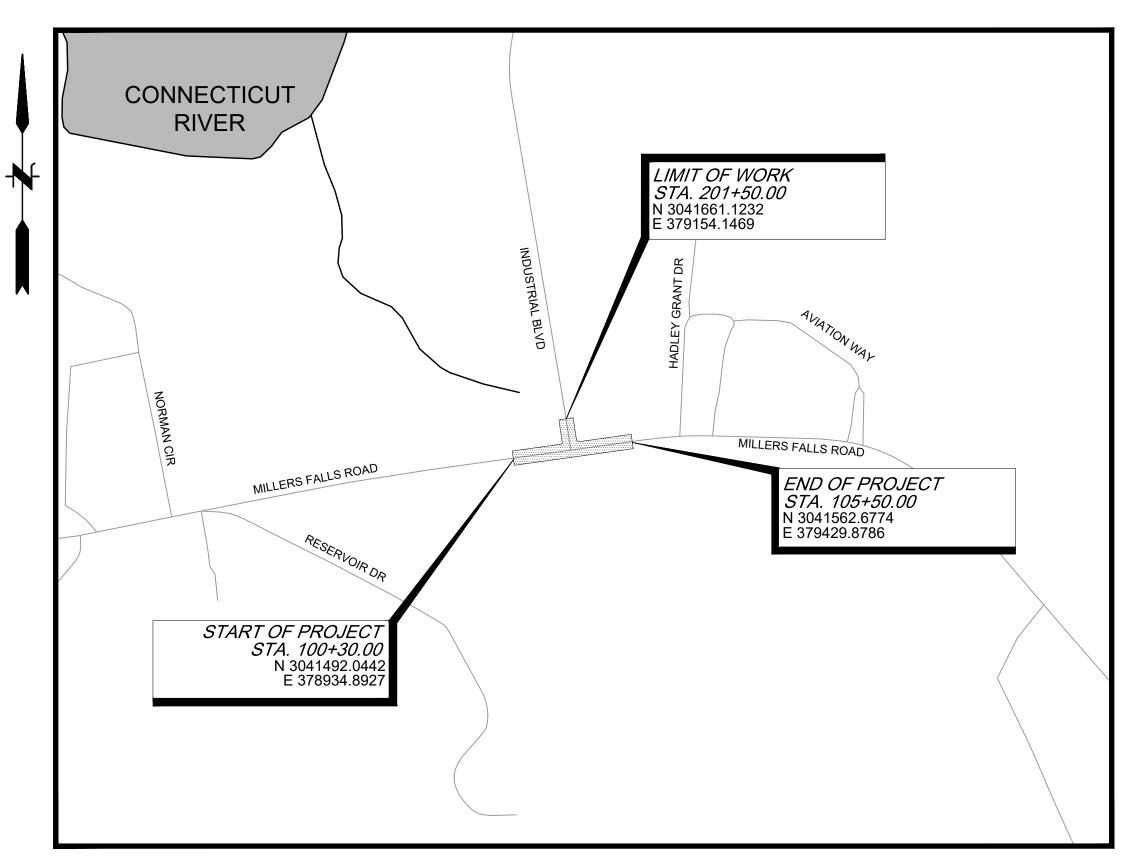
PREPARED BY



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

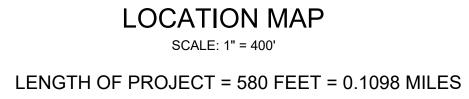
MONTAGUE · MASSACHUSETTS PRELIMINARY DESIGN SUBMITTAL **NOT FOR CONSTRUCTION**

AUGUST 2024



PREPARED FOR

FRANKLIN REGIONAL TRANSIT AUTHORITY 12 OLIVE STREET GREENFIELD, MA 01301



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



	SYMBOLS						GENER
EXISTING	PROPOSED	_			SIGNING SYMBOLS		
$\Box CB (OR GI, LB)$	СВ	CATCH BASIN (OR GUTTER INLET, OR LEACHING BASI		PROPOSED			1. INFORM AVAILA
<i>CBCI (OR GICI)</i>	CBCI (OR GICI)	CATCH BASIN (OR GUTTER INLET) WITH CURB INLET	(GUTTERMOUTH)				CONSIE
		EDGESTONE-TYPE NOTED EDGE OF ROAD		₹	PAVEMENT ARROW AND LE	EGEND	UTILITI
O EHH	●EHH	ELECTRIC HANDHOLE (NUMBER AS NOTED)					1-888
O EMH	● EMH	ELECTRIC MANHOLE "	<i>CW</i>	CW SL		LINES (WIDTH NOTED)	PROJE HORIZO
O TMH	• <u> </u>	TELEPHONE MANHOLE "		SL	CROSSWALK, 2–12" WHITE STOP LINE, 12" WHITE LINI		THE A
O WMH	● WMH	WATER MANHOLE "			YIELD LINE, 24" x 36" WH		LOCATI CONFLI
O SMH	● SMH	SEWER MANHOLE "					ATTEN
О <i>DMH</i>	(•) DMH	DRAINAGE MANHOLE "	SWCHL	SWCHL	SOLID WHITE CHANNELIZIN		2. THE C
0 <i>GG</i>	• GG	GAS GATE	SYCHL BWLL	BWLL	BROKEN WHITE LANE LINE		APPRO SHALL
○ WG	●WG	WATER GATE	SWLL	SWLL	SOLID WHITE LANE LINE -		CONTR
0 <i>CS</i>	●CS	CURB STOP	DYCL	DYCL	DOUBLE YELLOW CENTERLI		THIS W AND A
V Hyd	\ ↓ HYD	HYDRANT	SYEL	DWLL	DASHED WHITE LANE LINE		3. THE CO
oFA	• FA	FIRE ALARM BOX	SWEL BYLL	SYEL SWEL	SOLID YELLOW EDGE LINE SOLID WHITE EDGE LINE -		WHICH
∘ <i>PM</i>	●PM	PARKING METER		BYLL	BROKEN YELLOW LANE LIN		CONDIT 4. THE RO
÷¢-LP	₩ LP	STREET LIGHT POLE		♣ [M]	BICYCLE LANE		GRADIN
-0- <i>UP</i>	UP	UTILITY POLE	Sign o	%	BICYCLE DETECTION LEGEN	1D	RESPO WITHOL
-o Guy	-• GUY	GUY POLE	с <i>те</i> т с ₁	• • • •	SIGN AND POST		5. THE C
<u>12" RCP</u>	D <u>21'−12"RC</u> P	DRAIN PIPE (UNDER 24")	*	◆ · · · · · · · · · · · · · · · · · · ·	DELINEATOR		PERSO
	<u>21'_24"RC</u> P	DRAIN PIPE (DOUBLE LINE 24" AND OVER)					EASEM 6. ANY P
<u>8" VCP</u> 5		SEWER MAIN " "	<u>REGULATORY REQUI</u>	NEWENIS			OPERA
S E	F	ELECTRIC DUCT " "		L CONFORM WITH THE OR	DER OF CONDITIONS (OOC) ISSUE	D FOR THE	SATISF 7. HOURS
<u> </u>	G <u>8"GAS</u>	GAS MAIN " "	PROJECT. 2 NOTIEY CITY OF	FASTHAMPTON CONCEDVA	TION COMMISSION A MINIMUM OF	. 72 HOURS	RESER
<u>-8" C.I.</u> W	<u> </u>	WATER MAIN " "	PRIOR TO CONS		TION COMMISSION A MINIMUM OF	72 HOURS	8. ACCES
<i>"</i>	T	TELEPHONE DUCT " "			HOURS PRIOR TO CONSTRUCTION.		REASO REPLA
, □ <i>MB</i>		MAIL BOX		NUMBER ASSIGNED IN AC NS SHALL BE ON SITE AT	CORDANCE WITH THE ORDER OF	CONDITIONS.	9. INSTAL
		HIGHWAY GUARD (TYPE NOTED)	6. WITHIN LOCAL R	IGHTS-OF-WAY, PERFORM	THE WORK IN ACCORDANCE WITH	H LOCAL	CONST AREAS
xx	xo	FENCE (SIZE AND TYPE NOTED)	MUNICIPAL STAN		ITE SECURITY AND JOB SAFETY.		AREAS
	■ MHB	HIGHWAY/PROPERTY BOUND (TYPE NOTED)			E WITH OSHA STANDARDS AND L		
LABEL/DATE	LABEL/DATE	CITY, TOWN, OR COUNTY LAYOUT	REQUIREMENTS.				
		STATE HIGHWAY LAYOUT (S.H.L.O.)		GULATION DEBRIS IN ACCOR	RDANCE WITH APPLICABLE FEDER/ ND STATUTES.	AL, STATE	
		EASEMENT LINE					
<i>P</i>	₽	PROPERTY LINE					MAP
NAME		CITY, TOWN, OR COUNTY BOUNDARY					1.1. E
		STATE BOUNDARY					P
△		BASE OR SURVEY LINE					2
1000 00 00 L	+57.59 10 <i>NOO'00'00'E</i>	CONSTRUCTION BASELINE					2
	P.C. <i>NOU OU OU E</i>						1.2. H
Ę	$\left(\begin{array}{c} \xi \\ + \end{array} \right)$	TREE (SIZE AND TYPE NOTED)					N
							E N
		APPROXIMATE FULL DEPTH AREA					
	••	COMPOST FILTER TUBE					
BVW		BORDERING VEGETATED WETLAND					
		50' BUFFER TO WETLAND					
		100' BUFFER TO WETLAND					
		100' INNER RIPARIAN					
· ·		200' RIVERFRONT BUFFER					
		MAJOR CONTOUR		ABBREVIATION	√S		
		MINOR CONTOUR					
	I						
	GENERAL						
ABAN ABANDON		TO SCALE ACCMP	ASPHALT COATED CORRIGATED METAL PIPE CORRUGATED ALUMINUM PIPE		ENT/GRADING	PROF	
ADJ ADJUST		OFILE GRADE LINE CIP	CAST IRON PIPE		NTER OF CURVE		IFFERENCE IN RATES (
APPROX APPROXIMATE		POSED CIT	CHANGE IN TYPE		CH POINT	ELEV ELEVATION	
BIT BITUMINOUS		/EMENT COND	CONDUIT		W POINT		SIGHT DISTANCE TICAL CURVATURE
BOS BOTTOM OF SLOPE		DIP	DUCTILE IRON PIPE		INT OF CURVE		RTICAL INTERSECTION
(B.O.) BY OTHERS		IODEL FES	FLARED END SECTION		INT OF INTERSECTION	PVC POINT OF VER	
CLF CHAINLINK FENCE	RET RET	F&C	FRAME AND COVER				RTICAL TANGENT
CONC CONCRETE			FRAME AND GRATE		INT OF COMPOUND CURVE		RTICAL REVERSE CUR
ELEV ELEVATION EOP EDGE OF PAVEMEN	_		HIGH DENSITY POLYETHYLENE PIPE		INT OF REVERSE CURVE INT OF TANGENT		RTICAL COMPOUND CU
EXIST EXISTING	11000 112.0	IOVE AND STACK HW	HEADWALL	25.45		SSD STOPPING SIGH	
FND FOUNDATION	RT RIGH	HYD	HYDRANT	SP	OT ELEVATION	VC VERTICAL CUR	
GRAN GRANITE		TION INV	INVERT	•			
HMA HOT MIX ASPHALT		IPORARY PVC	POLYVINYLCHLORIDE PIPE				
		OF SLOPE PWW	PAVED WATER WAY				
		11 101					
LOAM LOAM BORROW	TYP TYPI	KCP	REINFORCED CONCRETE PIPE				
LOAM LOAM BORROW	TYP TYPI	KCP	REINFORCED CONCRETE PIPE TAPPING SLEEVE VALVE AND BOX UTILITY POLE				

NOTES:

TION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON LE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE RED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS SE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 344–7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR TAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO ENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY NS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY TS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ON OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION. ITRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE ALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR ONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR RK INCLUDING BUT NOT LIMITED TO TOWN SIDEWALK AND EXCAVATION PERMITS SOCIATED BONDING. ITRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF AVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER IN AT THE CONTRACTOR'S EXPENSE. DWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE

AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS SIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER. ITRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY L ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY IT AND CITY LAYOUT.

BLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION ONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE CTION OF THE ENGINEER.

OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE TOWN S THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY. TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE D WITHIN 72 HOURS OF REMOVAL.

SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF JCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK SHALL UTILIZE SILT SACKS DURING CONSTRUCTION.

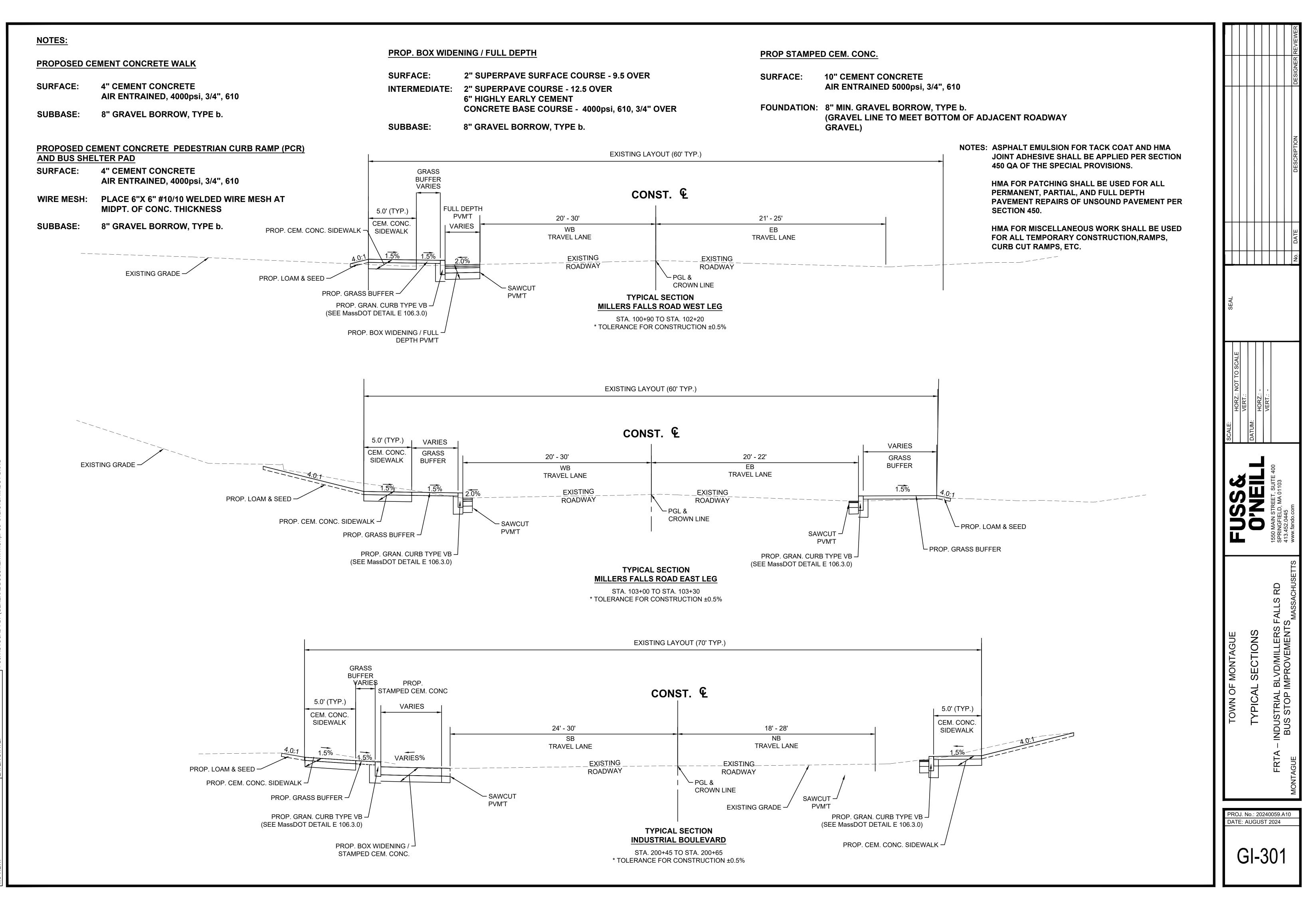
<u>EFERENCE</u>

STING CONDITIONS DEPICTED ON THIS PLAN ARE COMPILED FROM SURVEY RFORMED BY SHERMAN & FRYDRYK. BETWEEN JULY 12, 2024 AND JULY 15, 24, AN AUTOCAD FILE PROVIDED BY THE <u>SHERMAN & FRYDRYK</u> ON <u>AUGUST 21,</u> 24, AND FUSS & O'NEILL SITE INVESTIGATIONS ON July 9, 2024.

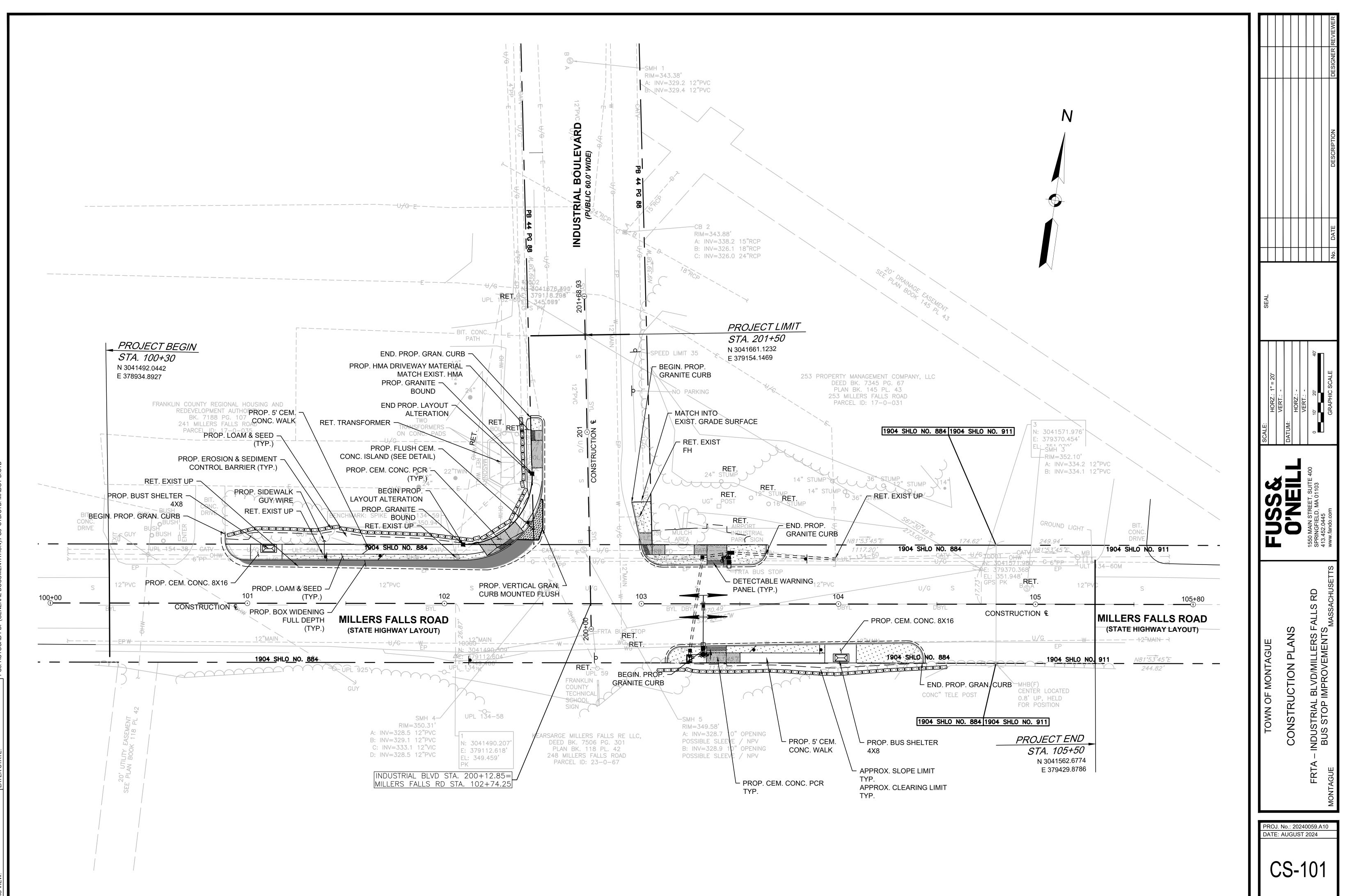
RIZONTAL DATUM REFERS TO THE MASSACHUSETTS COORDINATE SYSTEM, D83, MAINLAND ZONE, VERTICAL DATUM IS NAVD88. BOTH DATUM'S ARE ABLISHED AT THE SITE BY LOCAL GPS OBSERVATION ON THE MASSCORS WORK.

TR	AFFIC SIGNAL SYSTEMS
R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR YELLOW
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
$-\text{FR}\rightarrow$	FLASHING RED ARROW
FY	FLASHING CIRCULAR YELLOW
$-FY \rightarrow$	FLASHING YELLOW ARROW
Ģ	STEADY VERTICAL GREEN ARROW
Ğ (- x-	STEADY LEFT ARROW (RED, YELLOW OR GREEN PREFIX)
$-x \rightarrow$	STEADY RIGHT ARROW (RED, YELLOW OR GREEN PREFIX)
W	STEADY WALK-WHITE
DW	STEADY DON'T WALK-PORTLAND ORANGE
FDW	FLASHING DON'T WALK-PORTLAND ORANGE

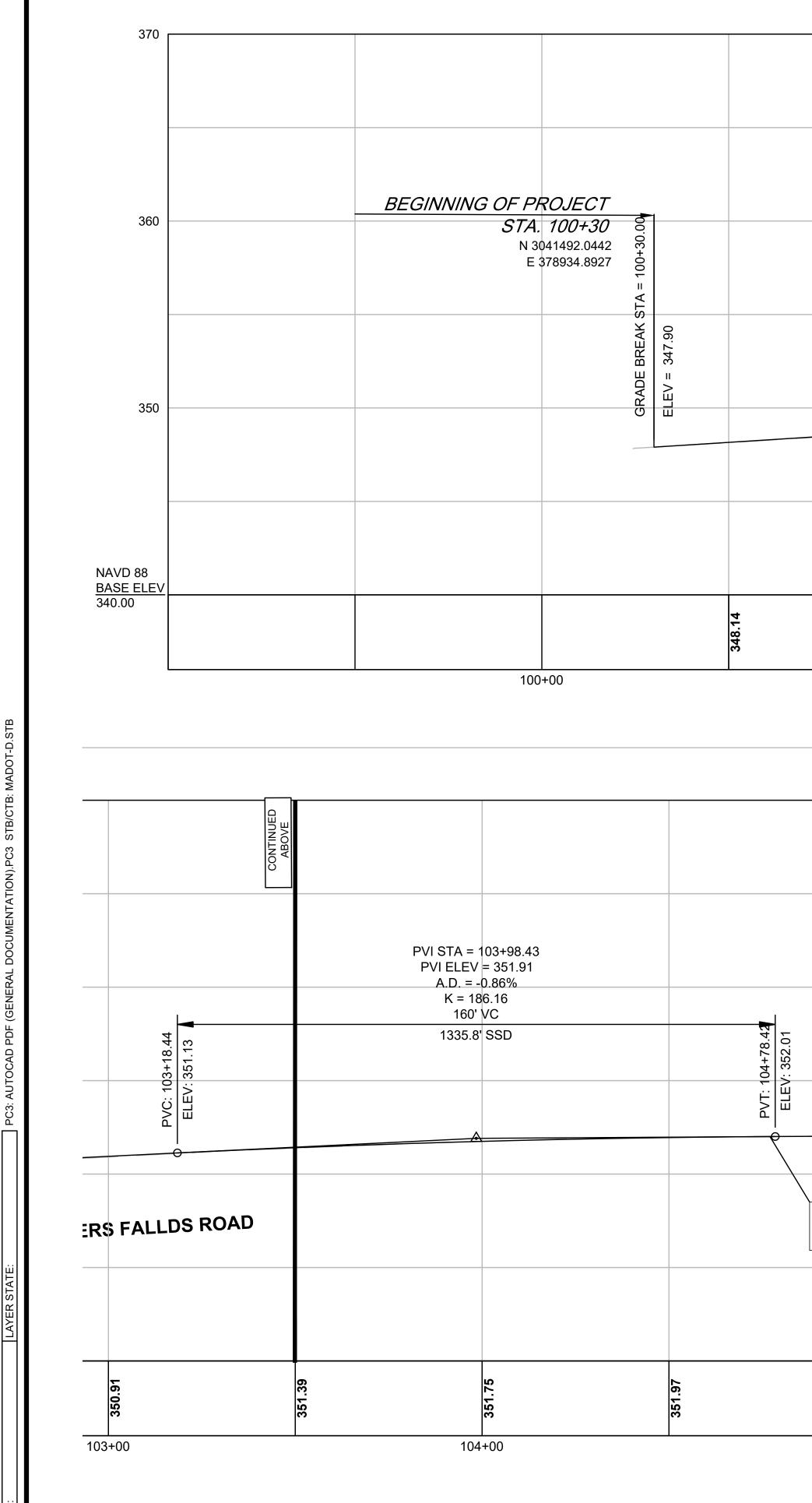
									DESCRIPTION DESIGNER REVIEWER
									No. DATE
SCALE: SEAL	HORZ.: NOT TO SCALE	VERT.:	DATUM:	HORZ.: -	VERT.: -				
	シゾゾーム	グフフフー				146 HARTFORD ROAD	MANCHESTER, CT 06040	860.646.2469	www.fando.com
TOWN OF MONTAGUE			ECEND & CENEDAL NOTES				DI KIAL DLVU/IVIILLERD FALLO RU	US STOP IMPROVEMENTS	MASSACHUSETTS
TOWN								Ē	
PR	20,			20		005	9.4		MONTAGUE

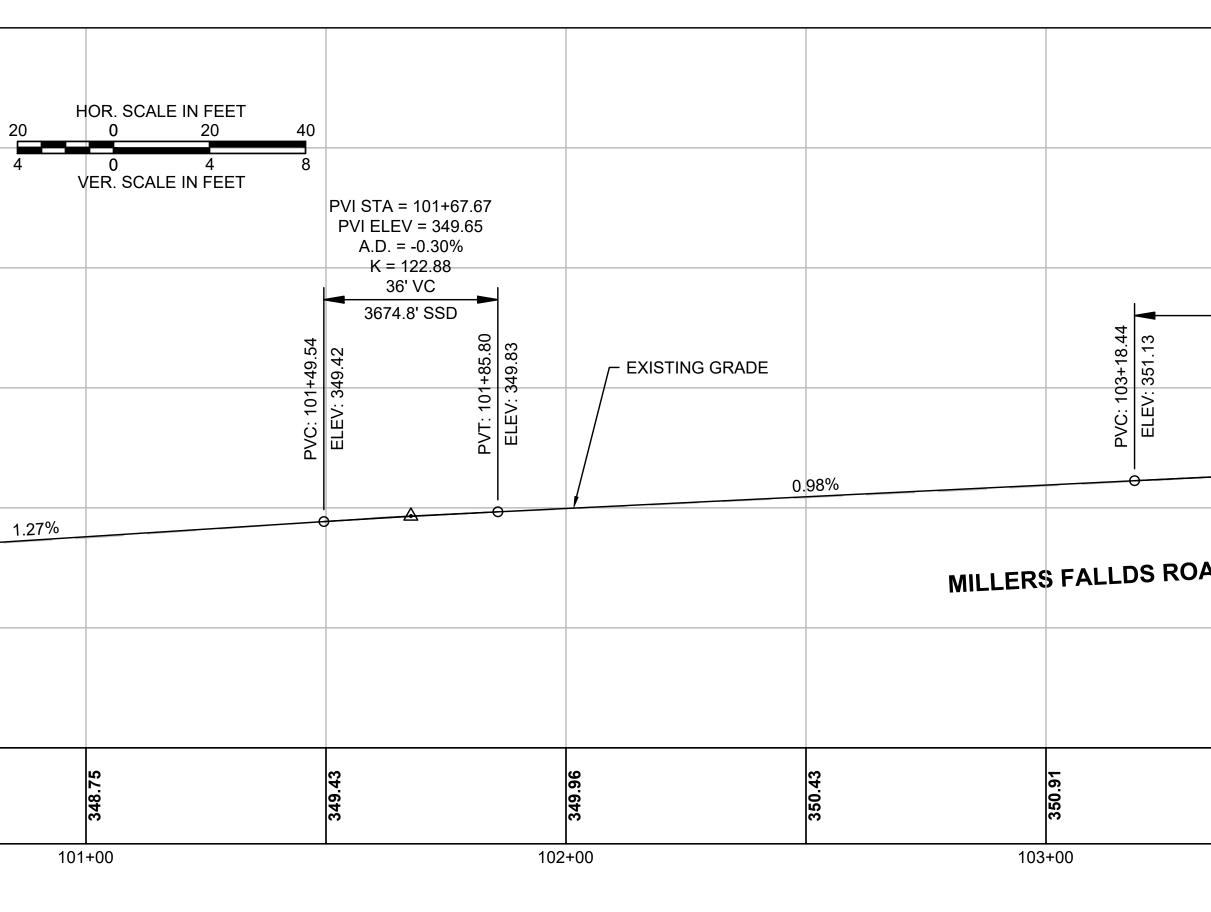


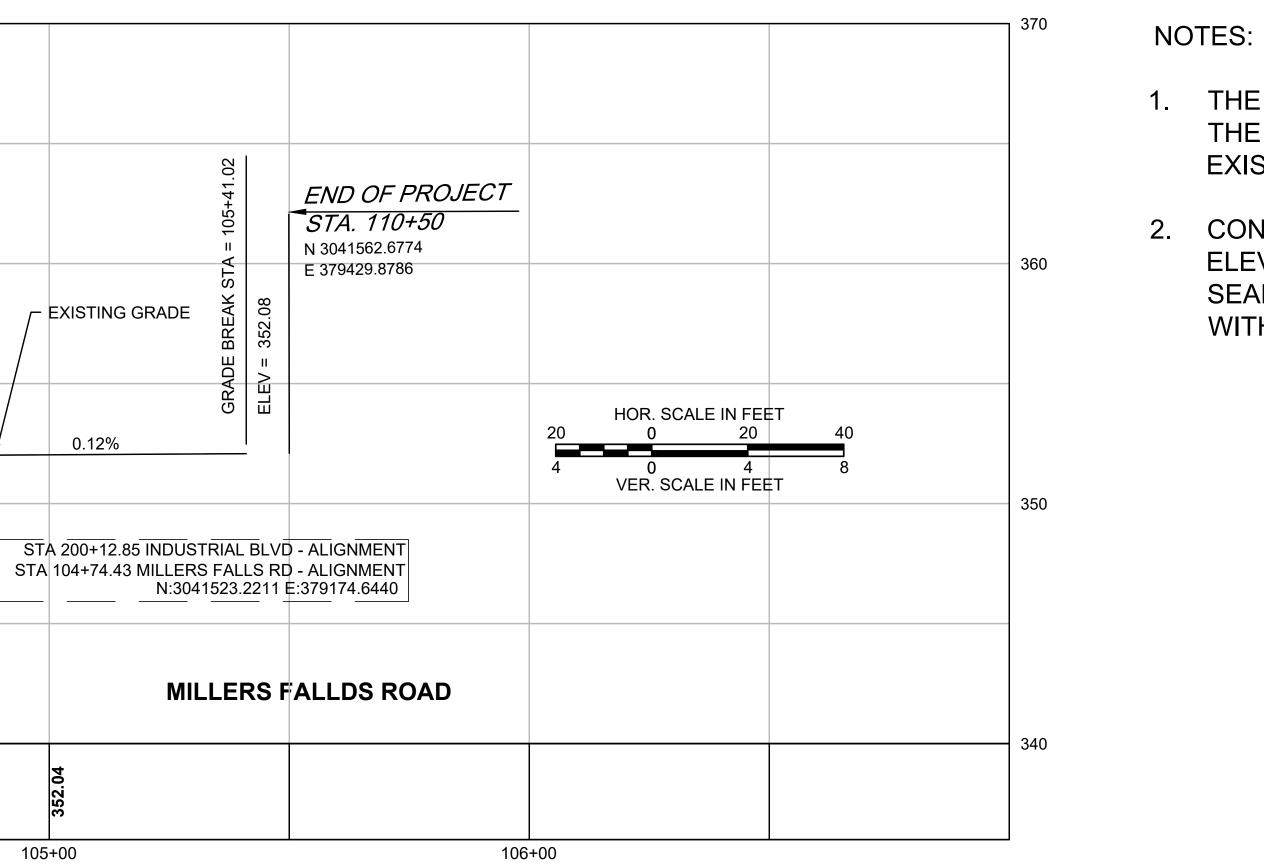
: J:\DWG\P2024\0059\A10\Civil\Plan\20240059.A10_TYP01.dwg Layout: TYP01 Plotted: 2024-08-30 2:06 PM Saved: 2024-08-29 9:15 AM User: Shiraz.Saife 5 VIEW: [LAYER STATE:] PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: MADOT-D.5



J:\DVVG\P2024\0059\A10\Civil\Plan\20240059.A10_HD(Construction Plan).dwg_Layout: CS-101_Plotted: 2024-09-11 3:11 AM_Saved: 2024-09-11 3:09 AM_User: aaro VIEW:







105+00

	BELOW		
	PVI STA = ^ PVI ELEV A.D. = - K = 18 160'	= 351.91 0.86% 6.16	
	1335.8		PVT: 104+78.4 2
	A		PVT: 1
AD			
	351.39	351.75	351.97
	104	+00	L

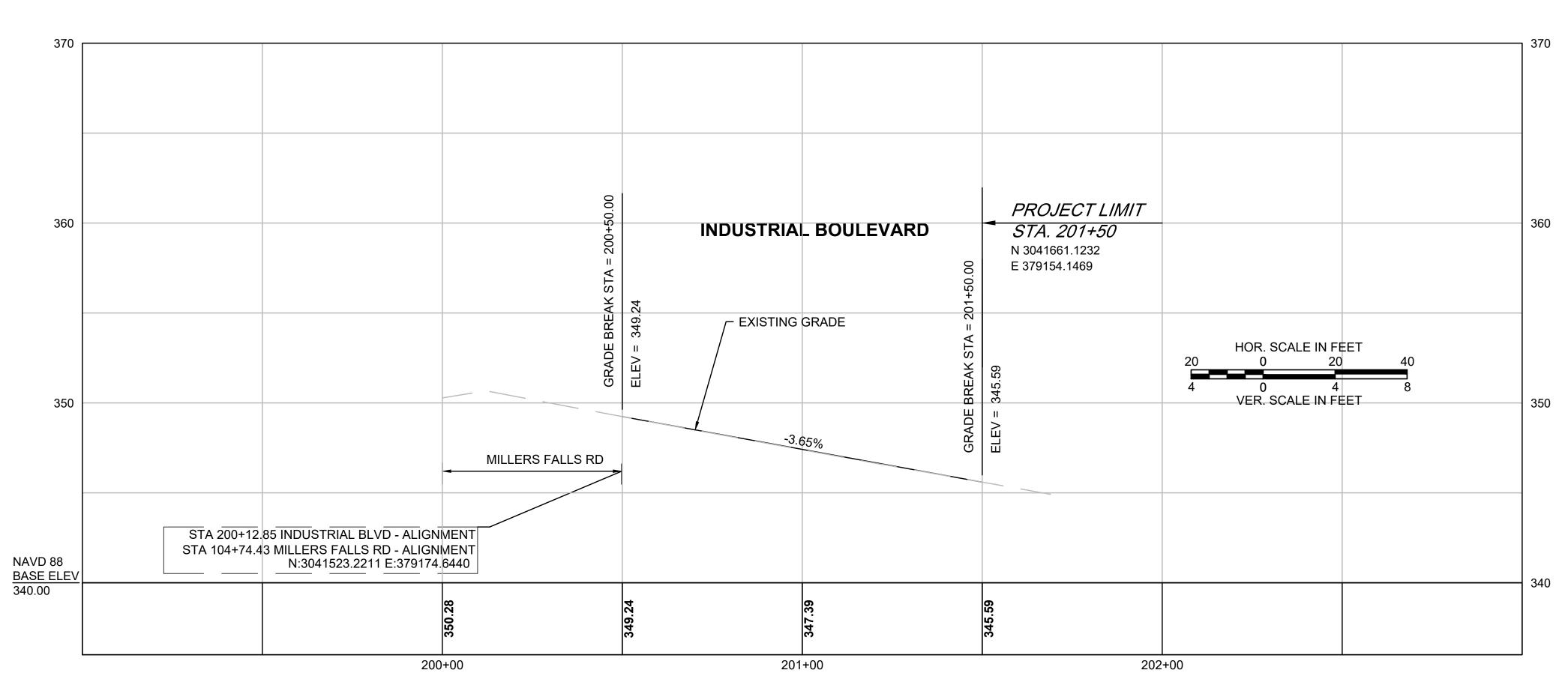
1. THE ROADWAY PROFILE WILL REMAIN UNCHANGED. THE PROPOSED BOX WIDENING WILL MATCH THE EXISTING GRADE EXACTLY.

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.

									DESIGNER REVIEWER
									DESCRIPTION
									No. DATE
SEAL	! ;								
SCALE:	HORZ.: AS NOTED	VERT.:	DATUM:	HORZ.: -	VERT.: -				
		グフ				ET, SUITE 400	A 01103		
						1550 MAIN STREET, SUITE 400	SPRINGFIELD, MA 01103	413.452.0445	www.fando.com
								BUS STOP IMPROVEMENTS	MASSACHUSETTS
		J. N						BUS STOP IMPROVEMENTS	MONTAGUE MASSACHUSETTS

NOTES:

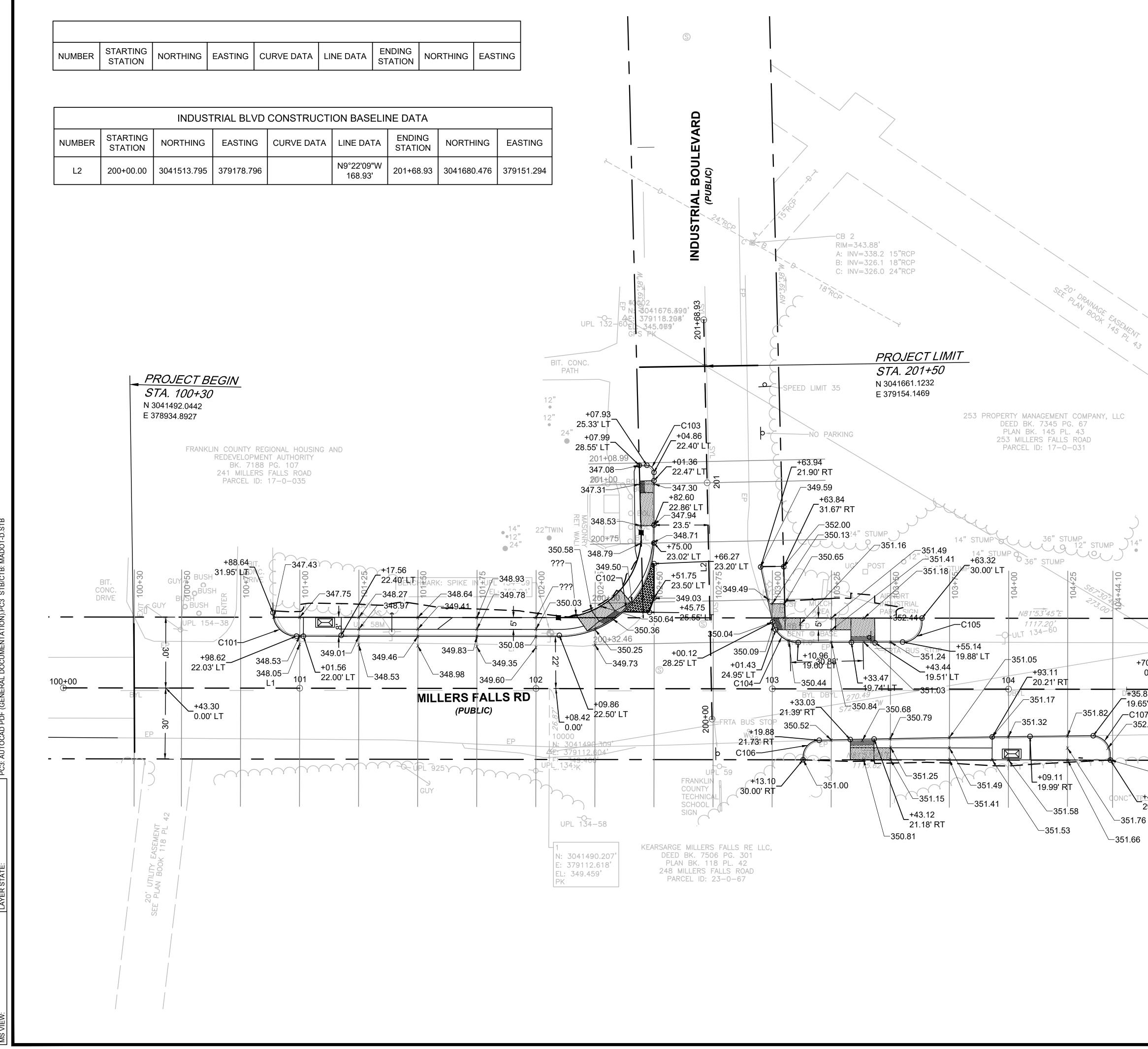
- 1. THE ROADWAY PROFILE WILL REMAIN UNCHANGED. THE PROPOSED BOX WIDENING WILL MATCH THE EXISTING GRADE EXACTLY.
- 2. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE ELEVATION OF WIDENED SECTION ALIGNS SEAMLESSLY WITH THE CURRENT ROADWAY GRADE, WITH NO CHANGES TO EXISTING ROADWAY PROFILE.



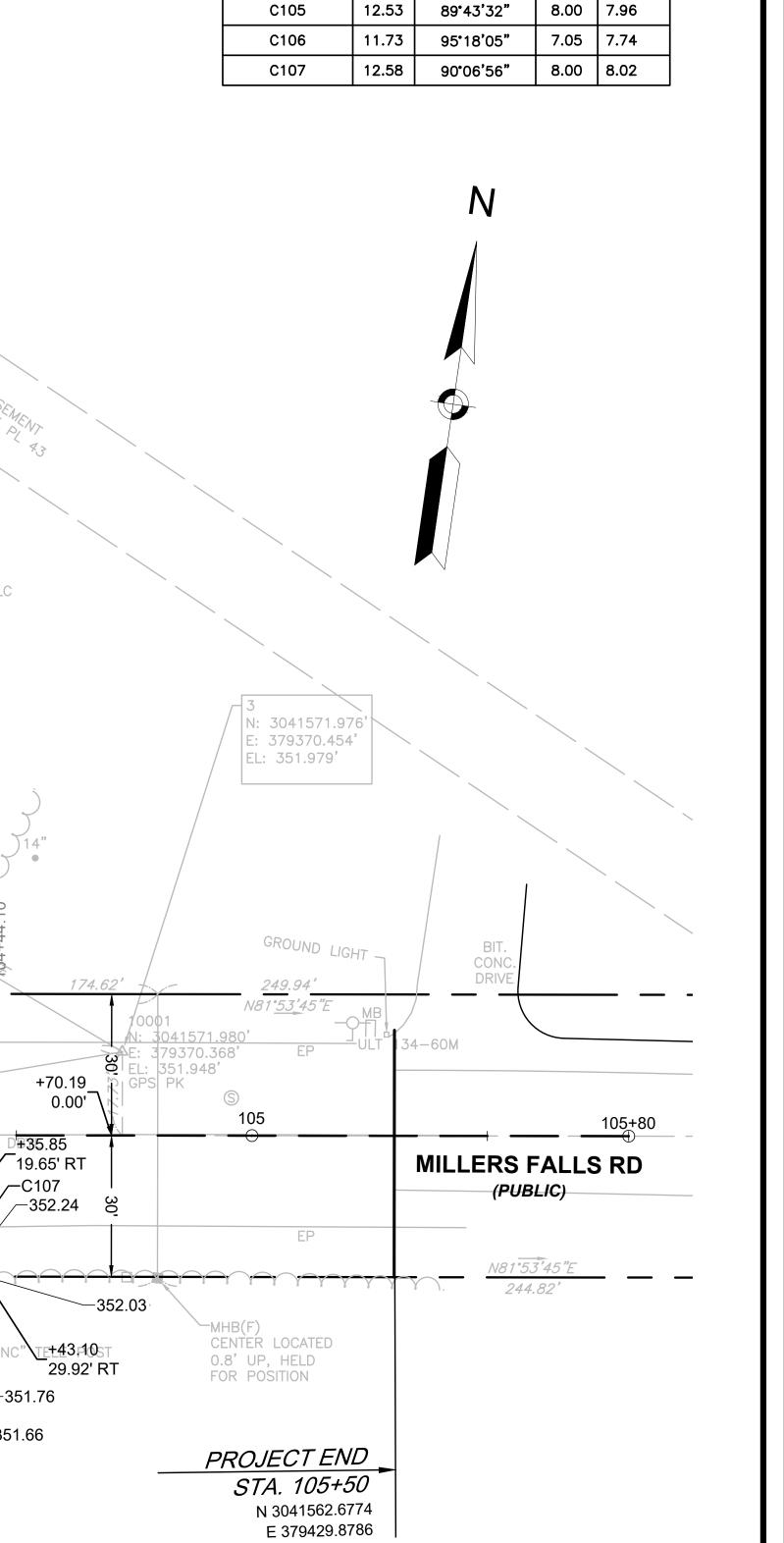
TOWN OF MONTAGUEECALE:SCALE:TOWN OF MONTAGUEPUSSS & HORZ: AS NOTEDHORZ: AS NOTEDROADWAY PROFILESPUSSS & HORZ: AS NOTEDHORZ: AS NOTEDROADWAY PROFILESPUSSS & HORZ: AS NOTEDHORZ: AS NOTEDFRTA - INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP1560 MAIN STREET, SUITE 400MONTAGUEMASSACHUSETTSHORZ: AS NOTEDMONTAGUEMASSACHUSETTSMANSACHUSETTS
TOWN OF MONTAGUE OADWAY PROFILES AL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS
TOWN OF MONTAGUE OADWAY PROFILES AL BLVD/MILLERS FALLS IMPROVEMENTS

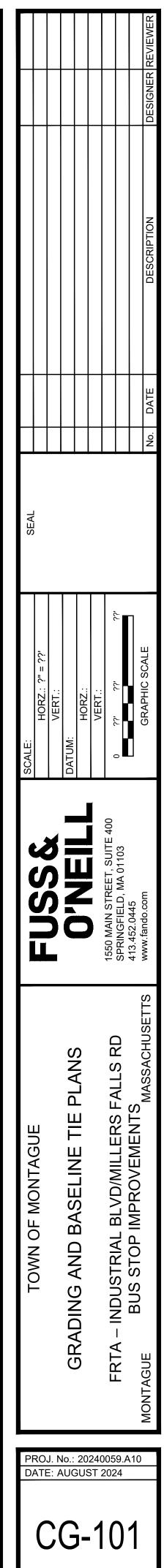
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING

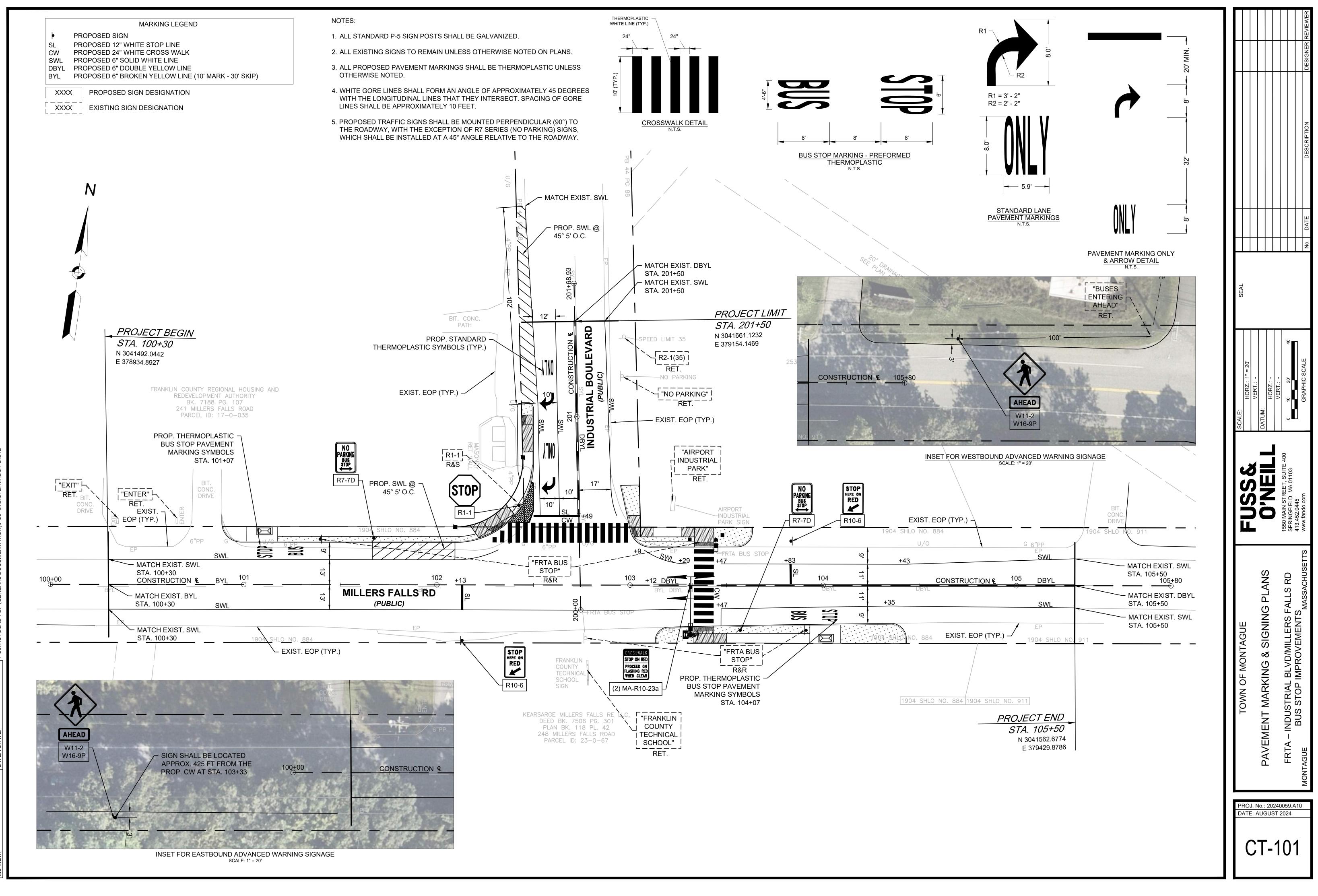
		INDUST	RIAL BLVD	CONSTRUCT	ION BASELI	NE DATA		
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTIN
L2	200+00.00	3041513.795	379178.796		N9°22'09"W 168.93'	201+68.93	3041680.476	379151.2



С	urve Table		
Length	Direction/Delta	Radius	Tangent
15.74	91 ° 56'53"	9.81	10.15
62.88	90°04'09"	40.00	40.05
4.71	90'00'00"	3.00	3.00
14.92	77•41'28"	11.00	8.86
12.53	89•43'32"	8.00	7.96
11.73	95 * 18'05"	7.05	7.74
12.58	90°06'56"	8.00	8.02
	Length 15.74 62.88 4.71 14.92 12.53 11.73	15.74 91*56'53" 62.88 90*04'09" 4.71 90*00'00" 14.92 77*41'28" 12.53 89*43'32" 11.73 95*18'05"	LengthDirection/DeltaRadius15.7491*56'53"9.8162.8890*04'09"40.004.7190*00'00"3.0014.9277*41'28"11.0012.5389*43'32"8.0011.7395*18'05"7.05







ile: J:\DWG\P2024\0059\A10\Civil\Plan\20240059.A10_PVT01.dwg Layout: CT-101 Plotted: 2024-08-30 4:14 PM Saved: 2024-08-30 4:14 PM User: aaron.keegan AS VIEW: [LAYER STATE:] PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: MADOT-D.STB

NOTES:

IDENTIFI-	SIZE O	F SIGN		TEX	DIMENSION	IS (IN)	NUMBER OF		COLOR		POST SIZE AND	SIGN FACE	TOTAL
CATION NUMBER	WIDTH (IN)	HEIGHT (IN)	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	NUMBER REQUIRED	AREA (S.F.)	AREA (S.F.)
R1-1	30	30	STOP	HIGHV	IWA 2004 ST/ VAY SIGNS M IGLISH VERS	IANUAL	1	RED	WHITE	WHITE	P-5 1 REQ'D	6.25	6.25
R10-6	24	36					2	WHITE	BLACK	BLACK	P-5 2 REQ'D	6.00	12.00
W11-2	30	30					2	YELLOW	BLACK	BLACK	P-5 2 REQ'D	6.25	12.50
W16-9P	24	12	AHEAD				2	YELLOW	BLACK	BLACK	MOUNTED W/ W11-2	2.00	4.00
MA-R10-23a	24	30	CROSSWALK STOP ON RED PROCEED ON FLASHING RED WHEN CLEAR	4C 4C 3.5C 3.5C 3.5C	2.5 3.5 4.5 2 2 3	N/A	2	YELLOW WHITE	BLACK	BLACK	O'HEAD MOUNT	5.00	10.00
R7-7D	12	18	NO PARKING BUS STOP	3C 3B 2C 2C	0.875 0.625 0.625 1.5 2	0.75 x 7.75 (ARROW)	2	WHITE	RED	RED	P-5 2 REQ'D	1.50	3.00

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

									REVIEWER
									DESIGNER REVIEWER
									DESCRIPTION
									No. DATE
SEAL	1								
SCALE:	HORZ.: NOT TO SCALE	VERT.:	DATUM:	HORZ.: -	VERT: -				
						400			
		グワワフ				1550 MAIN STREET, SUITE 400	SPRINGFIELD, MA 01103	413.452.0445	www.fando.com
		ダククショー						BUIS STOP IMPROVEMENTS 413.452.0445	MASSACHUSETTS
		J. N						RUS STOP IMPROVEMENTS	MONTAGUE COCCULIANT COCCULIANT MASSACHUSETTS
		J. N Ξ: A			ST				MONTAGUE COCCULIANT COCCULIANT MASSACHUSETTS

SEQUENCE AND TIMING DIRECTION HOUSING Ø/OL PHASE 1 PHASE 2 1 2 3 4 5 MINIMUM INTERVAL 15 MAXIMUM I N/A MAXIMUM II FLASHING YELLOW 4 STEADY YELLOW 4 ALL RED 3 STEADY RED / PED WALK 7 FLASHING RED / PED CLEAR BUFFER MILLERS FALLS ROAD A,B DARK EB 2 FY Y R R MILLERS FALLS ROAD C,D DARK FY WB 6 Y R R P1,P2 PEDESTRIAN N&S 4 DW DW DW DW W RECALL YES NONE FLASHING OPERATION PER MUTCD SEC. 4D-12 \$ NOTES:

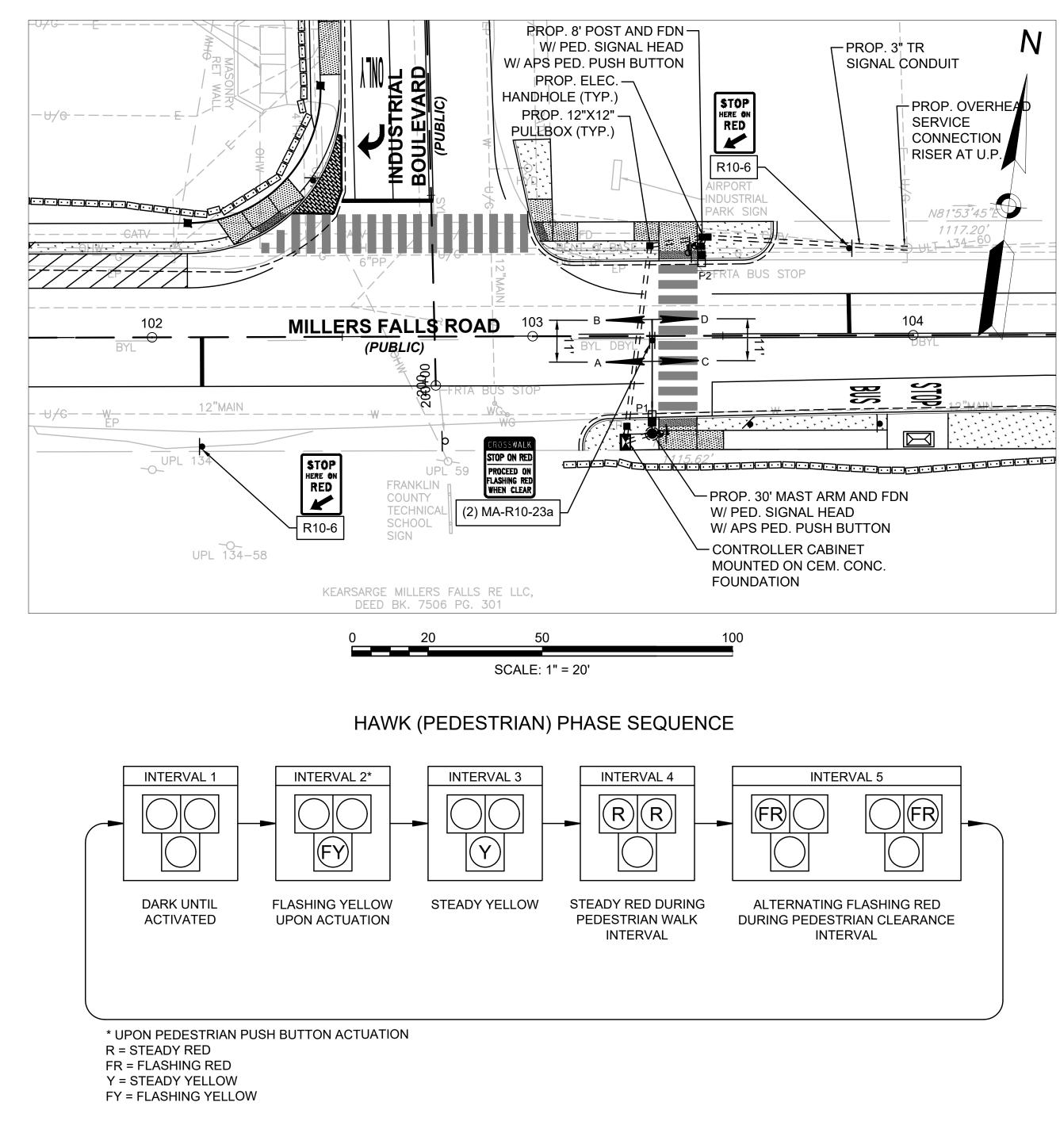
 \longrightarrow

1

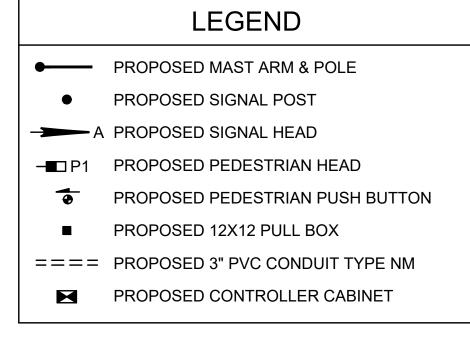
* UPON PEDESTRIAN PUSH BUTTON ACTUATION

FR = ALTERNATING FLASHING RED 2. 3. STOP AND GO OPERATION FOR 24 HOURS PER DAY.

FLASHING OPERATION FOR EMERGENCY ONLY



6	7	FLASH
		Ľ
		EMERGENCY ONLY
		C≺
		N
		IRG
		ME
12		ш
	4	
FR	DARK	FY
FR	DARK	FY
FDW	DW	OUT



CONSTRUCTION NOTES:

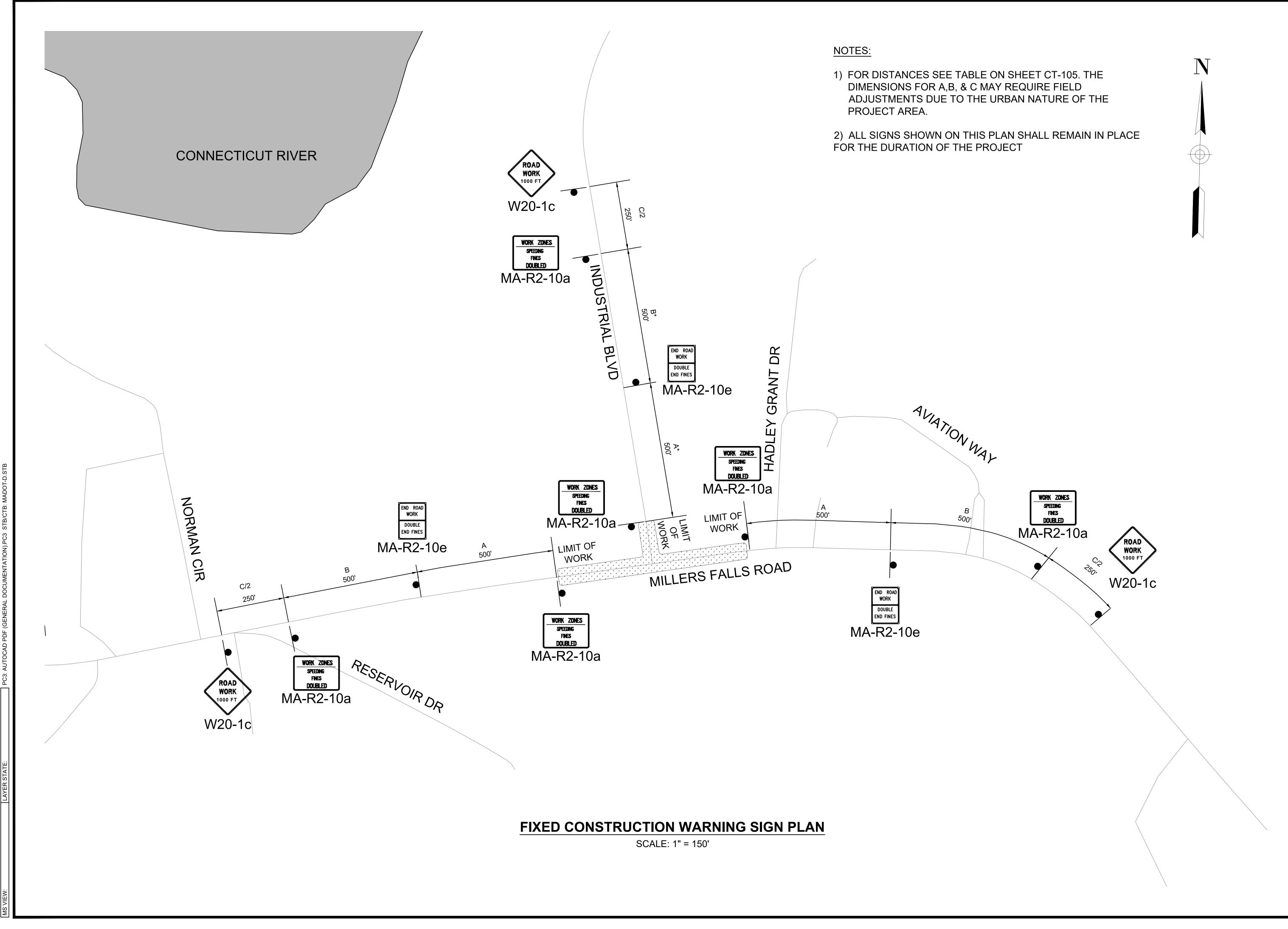
- 1. THE TOP OF ALL MAST ARM FOUNDATIONS IN SIDEWALK AREAS SHALL BE LOCATED FLUSH WITH FINISH GRADE.
- 2. THE TOP OF ALL MAST ARM FOUNDATIONS IN GRASSY AREAS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
- 3. TS POST/POLE WITH PEDESTRIAN PUSH BUTTON NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED TO PROVIDE A 10" MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.

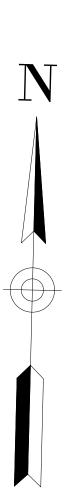
MAJOR ITEMS REQUIRED								
PAY ITEM	QUANTITY	ITEM						
804.3	150	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)						
811.31	2	12" X 12" PULL BOX (SD2-031)						
811.22	1	ELECTRIC HANDHOLE - SD2.022						
	1	SERVICE CONNECTION						
	1	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION						
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION						
	4	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS						
	2	16" LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN						
815.1	2	ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSHBUTTON, SIGN AND SADDLE						
	1	TRAFFIC SIGNAL CONTROLLER AND CABINET ENCLOSURE MOUNTED ON CEM. CONC. FOUNDATION						
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION						

PREFERENTIAL PHASE SEQUENCE Ø2 -PHASE 1 PHASE 2* *UPON PUSH **BUTTON ACTIVATION** A,B,C,D P1-P2 ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE ALL 12" LENS EQUIPPED W/CAP VISORS AND L.E.D. MODULES (16 INCH DISPLAY). PROPOSED R10-3E Karrier Stant Chassin Wetch Far Vabirier TINE RENAINI To Finish Cross 🕎 DON'T CROSS L Z Z T Z T Z HORZ TO CROSS TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL **PROPOSED SIGNAL INDICATIONS** SS & ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH CAP VISORS AND ±5" NON-LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE BORDERS. ****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, \mathbf{DO} BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK**** 155 SPF ACCESSIBLE PEDESTRIAN SIGNALS (APS): RD S ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES A ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL PLAN L C REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES - BLVD/MILLERS F IMPROVEMENTS OPERABLE PARTS (R403), CLEAR SPACES (R404), AND MONTAGUE REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH SIGNAL BUTTONS. ACCESSIBLE PEDESTRIAN SIGNALS (APS) SPEECH **MESSAGE NOTE:** ОF INDUSTRIAL BUS STOP I **RAFFIC** ALL PUSH BUTTONS AT THIS INTERSECTION SHALL BE NN PROGRAMMED WITH THE APPROPRIATE SPEECH MESSAGE FOR WALK INDICATING THE STREET 0 CROSSING. FRTA

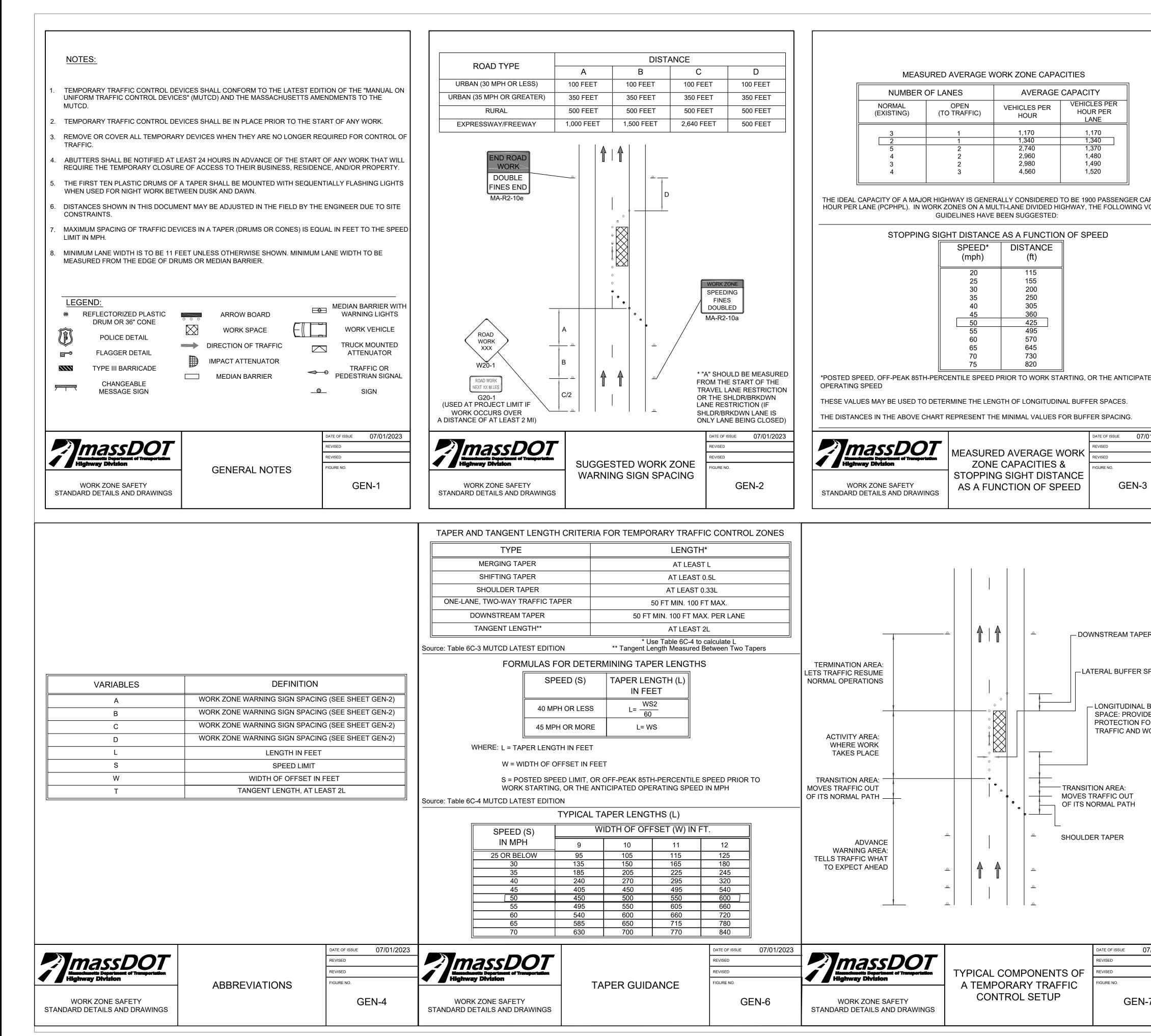
PROJ. No.: 20240059.A10 DATE: AUGUST 2024

CT-102



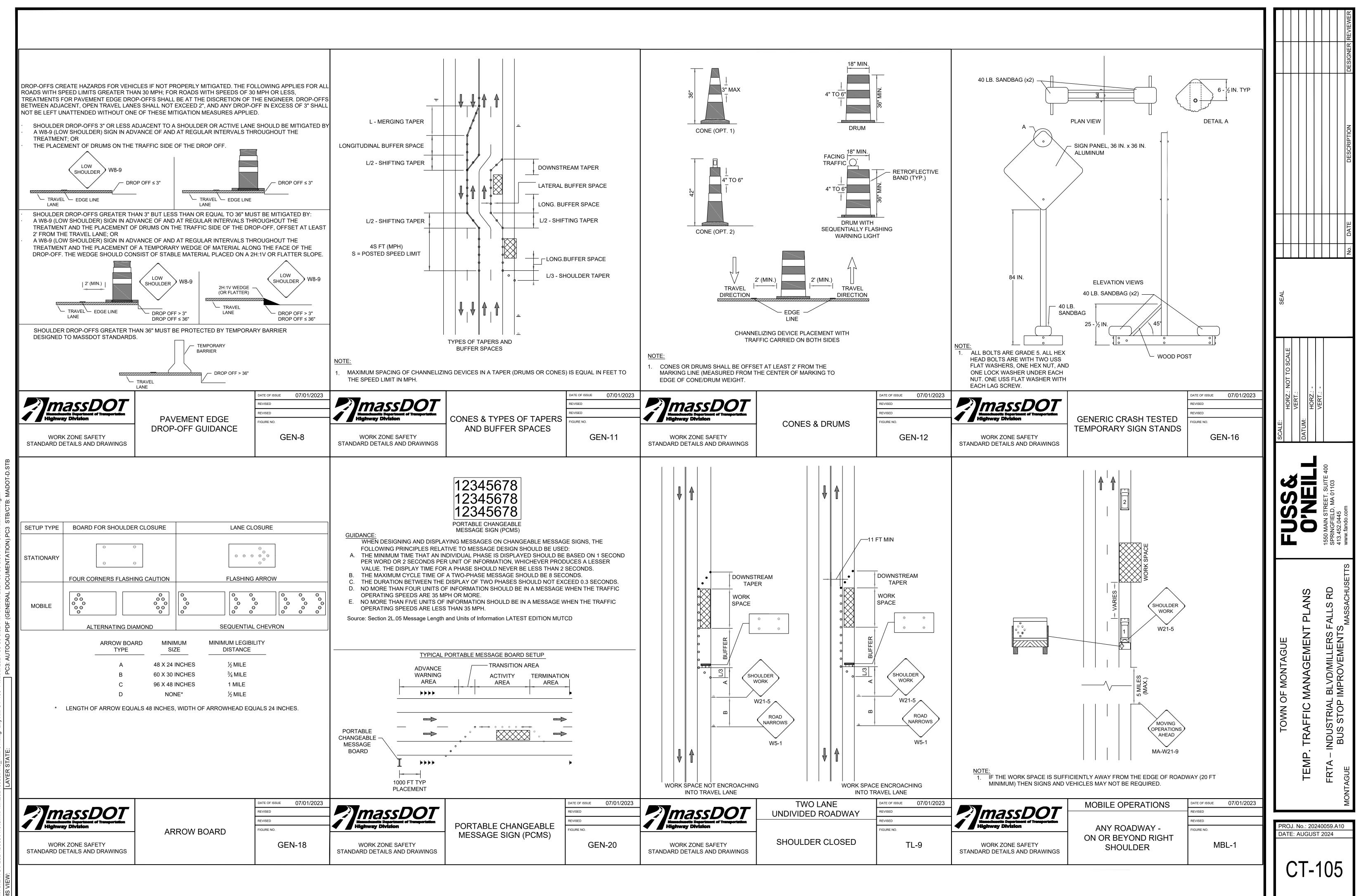


								No. DATE DESCRIPTION DESIGNER REVIEWER
SEAL								
SCALE:	HORZ.: 1" = 150' VERT.: -	DATUM:	HORZ.: -	VERT.: -	110			GRAPHIC SCALE
	ざ ののつし				1550 MAIN STREET, SUITE 400	SPRINGFIELD, MA 01103	413.452.0445	www.fando.com
TOWN OF MONTAGUE		TEMP TRAFFIC MANAGEMENT PLANS	-			Z	BUS STOP IMPROVEMENTS	MONTAGUE
DA	OJ. N TE: A	NUG	SUS	ST 2	202	24)
	Ċ	Ι	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	ſ	Y	2	



ile: J:\DWG\P2024\0059\A10\Civil\Plan\20240059.A10_TMP01.dwg Layout: CT-104 Plotted: 2024-08-30 6:52 PM Saved: 2024-08-30 6:50 PM User: aaron.keegan AS VIEW: [LAYER STATE:] PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: MADOT-D.STB

		REVIEWER
		DESIGNER
	GENERAL NOTES:	DESCRIPTION
NRS PER OLUME	1. 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.	DATE
	2. ALL TRAFFIC MANAGEMENT CONFIGURATIONS SHALL CONFORM TO THE STANDARD MassDOT DETAILS ON THE FOLLOWING SHEETS AND APPLY TO ALL LOCATIONS INCLUDED IN THE CONTRACT.	ġ
	3. 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.	SEAL
ED	4. 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.	SCALE
01/2023	5. COVER ALL EXISTING SIGNAGE THAT CONFLICTS WITH THE TRAFFIC MANAGEMENT SETUP IN PLACE.	NOT TO
	6. 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.	SCALE: HORZ:: VERT.: DATUM: HORZ:: VERT.:
	7. THE CONTRACTOR SHALL PLACE TWO PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) ON THE PROJECT SITE, FOR SEVEN DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.	
	8. ALL ADVANCED SIGNAGE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.	01103
	 IF FLAGGERS ARE USED FOR TRAFFIC CONTROL, THE FLAGGER SIGN (W20-7a) SHALL BE SUBSTITUTED FOR THE POLICE OFFICER AHEAD (W20-7b) SIGN. 	FAGASA AN STREE SPRINGFIELD, MA 413.452.0445 www.fando.com
R		
PACE		VS RD CHUSETTS
BUFFER ES DR /ORKERS		PLA1
		TOWN OF MONTAGUE TRAFFIC MANAGEMENT NDUSTRIAL BLVD/MILLERS F BUS STOP IMPROVEMENTS
		TRAI TRAI BUS BUS
7/01/2023		TEMP. FRTA – MONTAGUE
		≥ PROJ. No.: 20240059.A10
7		DATE: AUGUST 2024
		CT-104



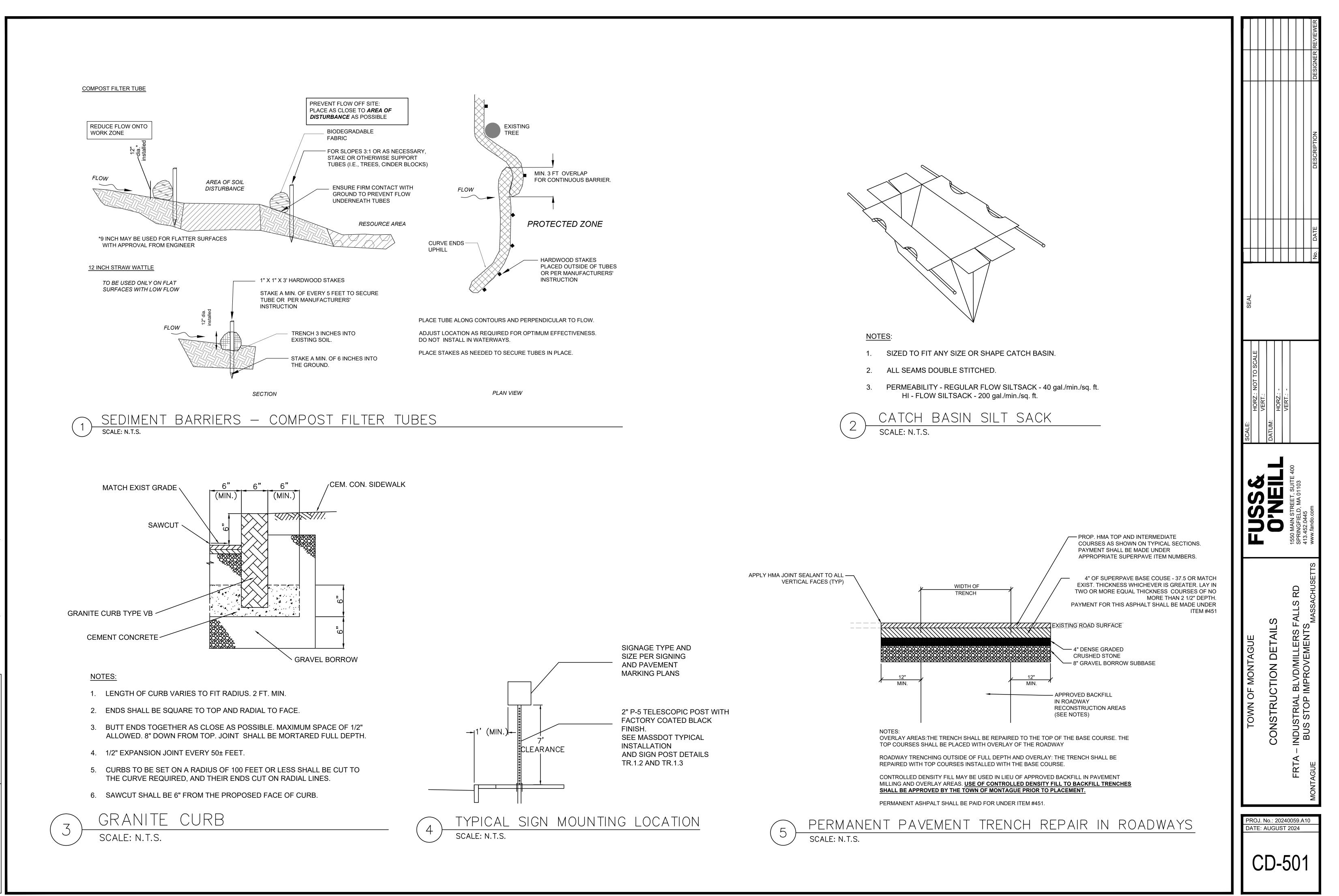
: J:\DWG\P2024\0059\A10\Civil\Plan\20240059.A10_TMP01.dwg Layout: CT-602 Plotted: 2024-08-30 6:52 PM Saved: 2024-08-30 6:50 PM User: aaron.keegan

IDENTIFI-CATION NUMBER MA-R2-10a MA-R2-10e MA-W21-9 W20-1c W21-5 W5-1 W8-9

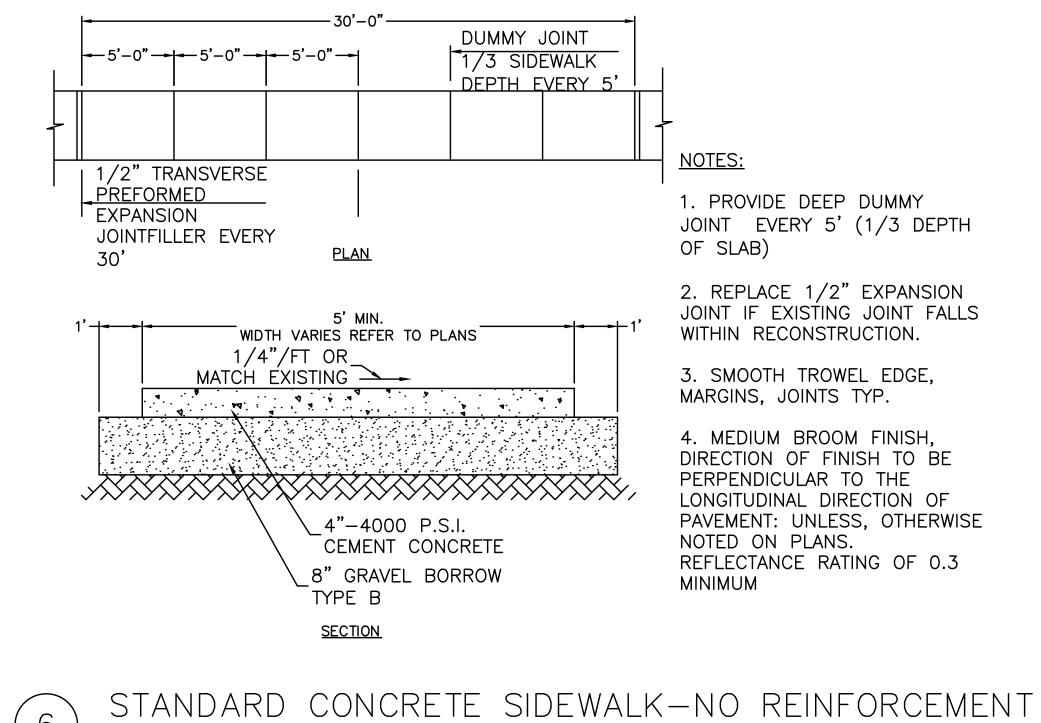
TYPICAL CONSTRUCTION SIGNING N.T.S.

	SIZE O	F SIGN		TEX	(T DIMENSI	IONS (in)		COLOR			
	WIDTH (IN)	HEIGHT (IN)	TEXT	LETTER HEIGHT	VERTICA SPACIN	AL ARROW	BACK- GROUND	LEGEND	BORDER	SIGN FACE AREA (S.F.)	ESTIMATED QTY
1	48	36	WORK ZONES Speeding Fines Doubled		EE MassDO NDARD SIG		FLOUR. ORANGE WHITE	BLACK	BLACK	12.00	6
	36	48	END ROAD Work Double Fines End				FLOUR. ORANGE WHITE	BLACK	BLACK	12.00	3
	36	36	MOVING OPERATIONS AHEAD		V		FLOUR. ORANGE	BLACK	BLACK	9.00	2
	36	36	RÖAD WÖRK 1000 FT	HIGH 2			FLOUR. ORANGE	BLACK	BLACK	9.00	3
	36	36	SHOULDER WORK				FLOUR. ORANGE	BLACK	BLACK	9.00	2
	36	36	ROAD NARROWS				FLOUR. ORANGE	BLACK	BLACK	9.00	3
	36	36	LOW SHOULDER				FLOUR. ORANGE	BLACK	BLACK	9.00	2

VIEWER				VIEWER
DESIGNER REVIEWER				SIGNER RE
				B
DESCRIPTION				SCRIPTION
				D
DATE				DATE
o S				
		SEAL	SEAL	
		SCALE	SCALE	
		HORZ.: NOT TO SCALE VERT.: HORZ.: -	NOT TO NOT TO	
	HORZ.: - VERT.: -	HORZ.: VERT.: HORZ.:	HORZ. VERT.: HORZ. VERT.:	
	DATUM:	DATUM	SCALE: DATUM	
0]		
1550 MAIN STREET, SUITE 400 SPRINGFIELD, MA 01103 413.452.0445 www.fando.com		い で い の に の い	T, SUITE 4	
IN STREE FIELD, MA 0445 do.com		SN	O'NE INGFIELD, MA 0	e como o como como
1550 MA SPRING 413.452 www.fan			1550 MA SPRING	www.fan
STT				TTS
RD ACHUSE	ΕЦ	EET	EET	ACHUSE
-ALLS	RAFFIC SIGN SUMMARY SHEET	Y SHI	-ALLS	MASS/
ERS I IENTS	MAR	UE MAR	UE MAR' ERS I	
OVEN N/MILL	SUMI	NTAG SUMI	NTAG SUMI	≥ □ >
BLVD	N D		IGN 8	
FRIAL STOP	S OI		TOWN OF MONTAGUE AFFIC SIGN SUMMA USTRIAL BLVD/MILLER:	
BUS SUB	RAFI	TO RAFI	TO RAFI	
	TEMP. TF	ЧР. Т	MP. T	
FRTA – INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS MASSACHUSETTS	Ξ	ΞL	TEN	NTAGUE
MO				MO
			PROJ. No.: 20240059./ DATE: AUGUST 2024	10
502	T-6	C.T_f		
	. •	~ · · ·	CT-602	



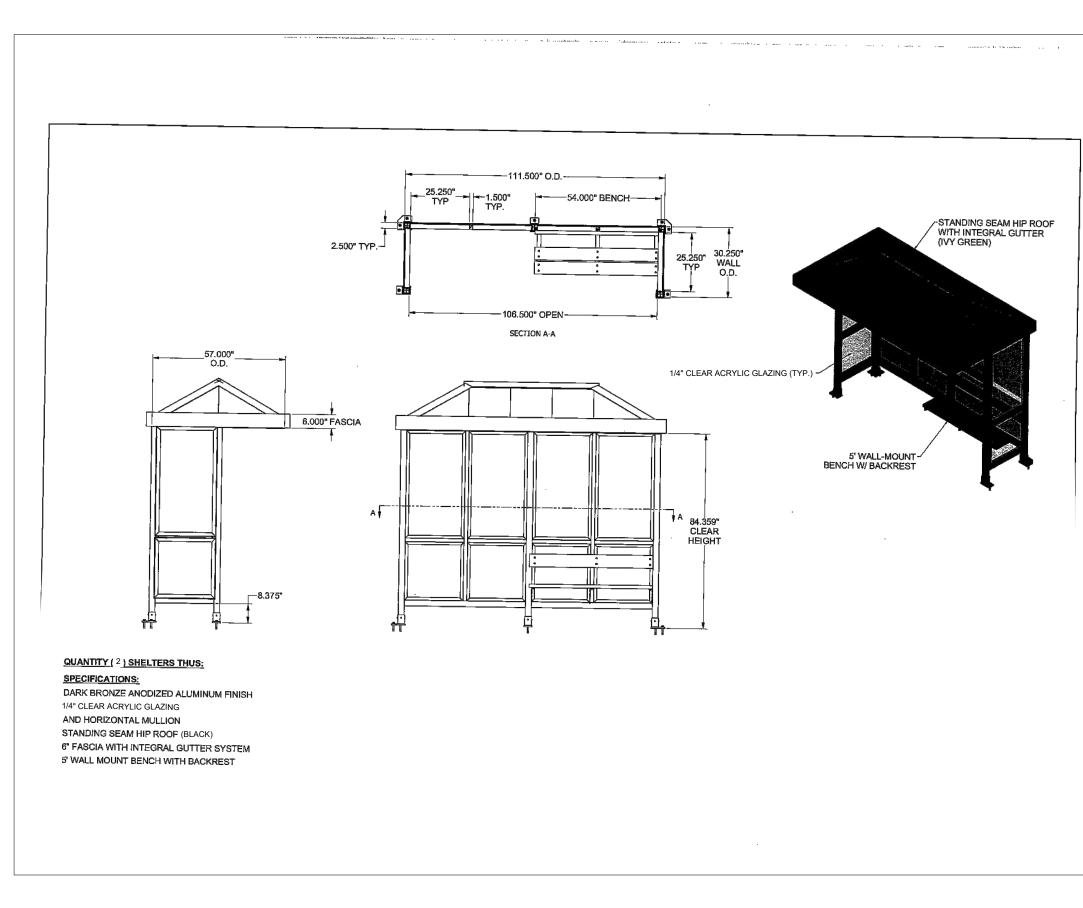
J:/DWG/P2024\0059\A10\Civil\Details\20240059.A10_DET01.dwg Layout: CD-501 Plotted: 2024-08-30 2:09 PM Saved: 2024-08-29 3:29 PM User: John.Parenteau VIEW: [LAYER STATE:] PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: MADC





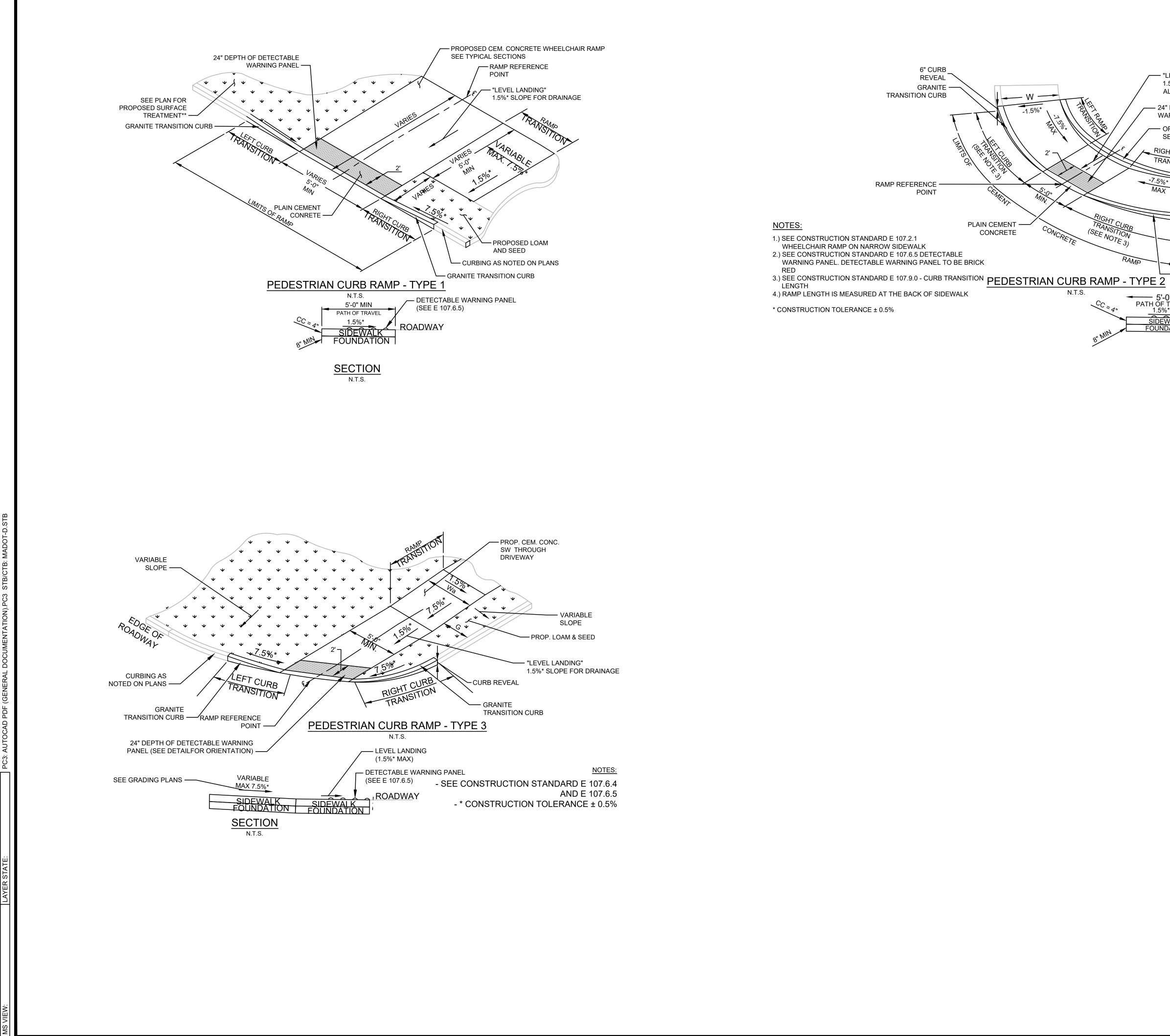
6

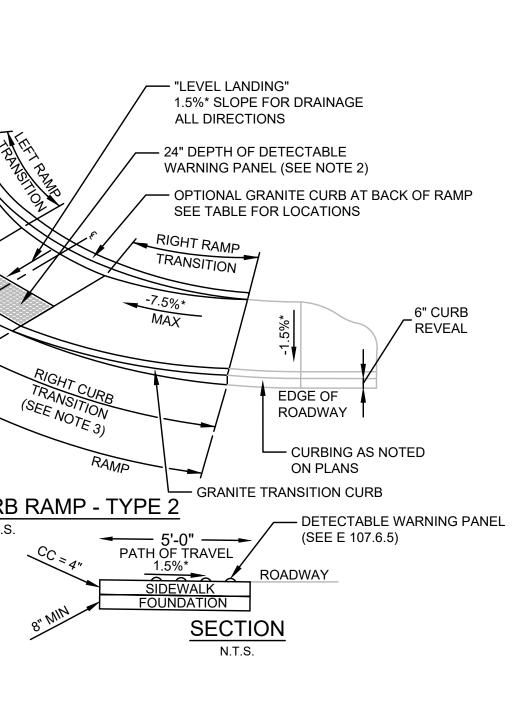
SCALE: N.T.S.

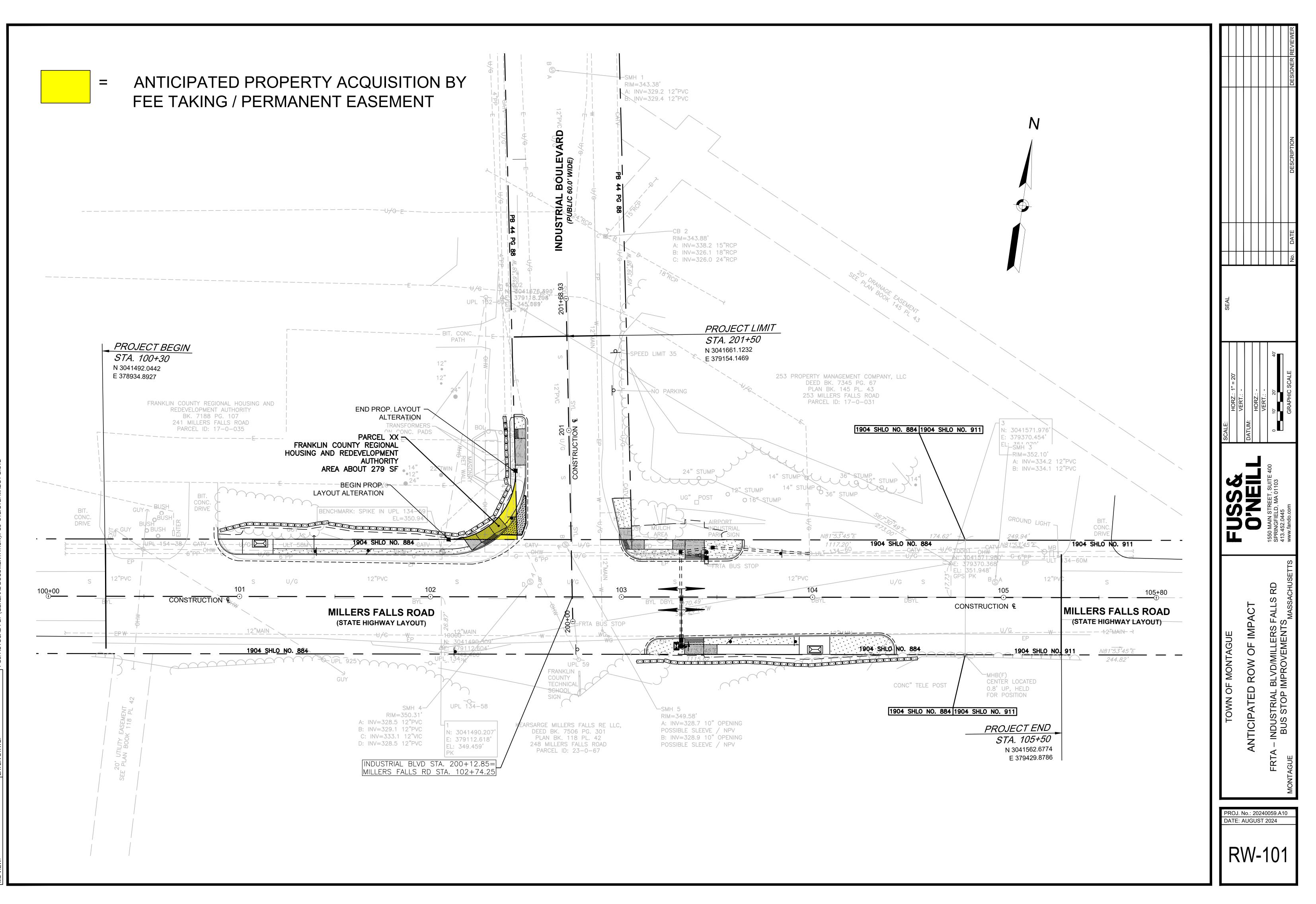




TOWN OF MONTAGUETOWN
TOWN OF MONTAGUE CONSTRUCTION DETAIL A – INDUSTRIAL BLVD/MILLERS F BUS STOP IMPROVEMENTS







File: J:\DWG\P2024\0059\A10\Civil\Plan\20240059.A10_HD(ROW of Way Impact).dwg_Layout: RW-101_Plotted: 2024-08-30_2:09 PM_Saved: 2024-08-30_2:05 PM_User: Shiraz.S MS_VIEW:

FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements Montague, MA Preliminary Design Estimate 9/11/2024 PRELIMINARY DESIGN COST ESTIMATE SUMMARY

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

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
Perliminary Co Estimate Prep	onstruction Cost			Uniformed Traffic Officer Control:	\$10,246	\$10,246
Lounate riep	urou i Ui.			10% Construction Contingency:	\$20,492	\$20,492
FRTA				Grand Total:	\$235,663	\$235,663

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
Perliminary Co				Uniformed Traffic Officer Control:	\$14,933
Cost Estimate I	Frepared Fof:			10% Construction Contingency:	\$29,865
RTA				Grand Total:	\$343,453



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
				Subtotal:	\$379,853	\$379,853
erliminary Construction Cost stimate Prepared For:				Uniformed Traffic Officer Control:	\$18,993	\$18,993
				10% Construction Contingency:	\$37,985	\$37,985
RTA				Grand Total:	\$436,831	\$436,831

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
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:	\$473,755
erliminary Co ost Estimate	nstruction Prepared For:			Uniformed Traffic Officer Control:	\$23,688
eet Lotinidio				10% Construction Contingency:	\$47,375
RTA				Grand Total:	\$544,818

