



TOWN COUNCIL – AGENDA REQUEST FORM

THIS FORM WILL BECOME PART OF THE BACKGROUND INFORMATION USED BY THE COUNCIL AND PUBLIC

Please submit Agenda Request Form, including back up information, 8 days prior to the requested meeting date. **Public Hearing requests must be submitted 20**

days prior to the requested meeting date to meet publication deadlines (exceptions may be authorized by the Town Manager, Chairman/Vice Chair).

MEETING INFORMATION

Date Submitted: 11/29/2023 Date of Meeting: 12/07/2023
 Submitted by: Dawn Tuomala Time Required: 10 Minutes
 Department: Public Works – Sewer Background Info. Supplied: Yes No
 Speakers: Dawn Tuomala

CATEGORY OF BUSINESS (PLEASE PLACE AN "X" IN THE APPROPRIATE BOX)

Appointment:	<input type="checkbox"/>	Recognition/Resignation/Retirement:	<input type="checkbox"/>
Public Hearing:	<input type="checkbox"/>	Old Business:	<input type="checkbox"/>
New Business:	<input checked="" type="checkbox"/>	Consent Agenda:	<input type="checkbox"/>
Nonpublic:	<input type="checkbox"/>	Other:	<input type="checkbox"/>

TITLE OF ITEM

Withdrawal of Funds from the Sewer Capital Reserve Fund

DESCRIPTION OF ITEM

To release the amount of \$90,696.21 from the Wastewater Capital Reserve Fund for the purpose of paying the Sewer Utility Cost required by NH DOT for the F.E. Everett Turnpike Widening Project.

REFERENCE (IF KNOWN)

RSA: Warrant Article:
 Charter Article: Town Meeting:
 Other: N/A:

EQUIPMENT REQUIRED (PLEASE PLACE AN "X" IN THE APPROPRIATE BOX)

Projector:	<input type="checkbox"/>	Grant Requirements:	<input type="checkbox"/>
Easel:	<input type="checkbox"/>	Joint Meeting:	<input type="checkbox"/>
Special Seating:	<input type="checkbox"/>	Other:	<input type="checkbox"/>
Laptop:	<input type="checkbox"/>	None:	<input type="checkbox"/>

CONTACT INFORMATION

Name: **Dawn Tuomala** Address: **6 Baboosic Lake Rd**
 Phone Number: **603 424-5137** Email Address: **Dtuomala@merriamcknh.gov**

APPROVAL

Town Manager: Yes No Chair/Vice Chair: Yes No

Hold for Meeting Date:



**TOWN OF MERRIMACK
INTER-DEPARTMENT COMMUNICATION**

DATE: November 29, 2023
AT (OFFICE): Department of Public Works

To: Paul Micali, Town Manager

FROM: Dawn B. Tuomala, PE, LLS, CWS
DPW Director

SUBJECT: **NH DOT Nashua-Merrimack-Bedford 13761-E
F.E. Everett Turnpike Widening in Merrimack
Request for withdrawal of Funds from the Sewer Capital Reserve Fund**

NH DOT is working on the widening project 13761-E that will widen the Highway from 2 lanes to 3 lanes between Exits 12 and 13. Within this segment of Highway we have a sewer line crossing under the Highway near Dumpling Brook.

When they widen the road they will be placing additional fills over our sewer pipe. We had our engineer Wright-Pierce look at this pipe and determined that it was in good working order. We also had them put flow meters to determine how much flow is going through this pipe. It was determined that we do not need to increase the size of the pipe.

In order to maintain the integrity of this pipe, they will need to sleeve the pipe under the areas of fill. This will tie into the existing sleeve that currently runs under the Highway. The State and their contractor have determined that this work will cost the Town \$90,696.21. Since the Town owns the sewer pipe we are responsible for the work being done on the pipe.

In order to proceed with the work, the State is requesting a check in the amount of \$90,696.21. Therefore, we are requesting the Town Council release the monies from the Sewer Capital Reserve Fund and to authorize the Town Manager to sign any and all documents.

Should you have any questions please let me know,

Dawn
CC: File



William Cass, P.E.
Commissioner

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION



David Rodrigue, P.E.
Assistant Commissioner
Andre Briere
Deputy Commissioner

NASHUA-MERRIMACK-BEDFORD
13761-E
(F.E. Everett Turnpike; F.E.E.T Widening in Merrimack
From Bedford Road to South of Exit 13)
[UTILITY AMENDMENT TO
AGREEMENT COVER LETTER – SEWER MAIN SLEEVE EXTENSION]

Bureau of Highway Design
Room 200
Tel. (603) 271-2171
Fax (603) 271-7025

October 27, 2023

Dawn Tuomala
Public Works Director
Merrimack Public Works Department
6 Baboosic Lake Road
Merrimack, NH 0305

Dear Mrs. Tuomala:

The Department has received the revision after proposal bid prices from R.S. Audley, Inc. dated September 15, 2023 for the extension of 30" steel casing around the existing 12" HDPE sewer main carrier pipe on the above noted State project in Merrimack, New Hampshire. The proposal has been reviewed by this office and incorporated into the construction contract estimate with the Utility Amendment to Agreement in the amount of \$90,696.21 which includes the deduction of \$2,048.90 for reimbursement of trench and backfill.

Enclosed is the original Utility Amendment to Agreement in duplicate, executed by the State. If this Agreement is satisfactory, please have both signed and dated for the Town and return one (1) to Lennart D. Suther, P.E., Utilities Engineer, New Hampshire Department of Transportation, 7 Hazen Drive, PO Box 483, Concord, NH, 03302-0483. The second Agreement is for your records.

Please prepare a check in the amount of \$90,696.21. Checks should be made payable to the **"Treasurer, State of New Hampshire"** and forwarded to Accounts Receivable Supervisor, Bureau of Finance and Contracts, New Hampshire Department of Transportation, 7 Hazen Drive, PO Box 483, Concord, NH 03302-0483, with a copy to Michael Mozer at the address stated above. Should funds not be provided, the extension of 30" steel casing around the existing 12" HDPE sewer main carrier pipe work will be deleted from the contract.

By copy of this letter Roadway Section is requested to revise the project estimate showing an income of \$90,696.21 which includes the deduction of \$2,048.90 for reimbursement of trench and backfill

NASHUA-MERRIMACK-BEDFORD
13761-E
(F.E. Everett Turnpike; F.E.E.T. Widening in Merrimack
From Bedford Road to South of Exit 13)
(SEWER MAIN RELOCATION)

AMENDMENT TO AGREEMENT

This Amendment to Agreement is made in duplicate this 27 day of October, 2023, by and between the STATE OF NEW HAMPSHIRE, by its Department of Transportation, party of the first part, hereinafter called the "State", and Merrimack Public Works Department (Vendor #177436), a municipally owned utility, party of the second part, hereinafter called the "Town".

WITNESSETH:

WHEREAS, the State and the Town entered into a Utility Agreement dated the 21st day of March, 2023, for the relocation of sewer main facilities, on the above referenced State project in the Town of Merrimack, County of Hillsborough, New Hampshire, and,

Revise the second Paragraph to read:

WHEREAS, the State has a Turnpike Capital Program Project (Organization Code 7507), NASHUA-MERRIMACK-BEDFORD, 13761-E, for the construction of widening a 2-lane section of the F.E. Everett Turnpike from Bedford Road to Exit 13, in the Town of Merrimack, County of Hillsborough, New Hampshire, which construction necessitates the extension of 30" steel casing for existing 12" sewer main carrier pipe to the extent required to permit construction of the Project, and,

Revise the sixth Paragraph to read:

WHEREAS, the Town desires the sewer main sleeve extension installation to be included as part of the Highway Contract, and,

WHEREAS, the aforementioned Utility Agreement is to be amended to extend the existing sewer main sleeve around the existing carrier pipe for the Project, and,

NOW THEREFORE, in consideration thereof, the parties hereto mutually agree to amend this Agreement as shown on the attached plans and described as follows:

Amend Paragraph 1 to read:

1. The State agrees to provide labor, equipment, and materials in the Contract for the extension of a 30" steel casing around the existing 12" HDPE sewer main carrier pipe at the following approximate locations:

Amend the **Method of Payment for Described Work** to read:

Work will be paid for at Actual Cost estimated at \$90,696.21 (Work Class Code 2250) as shown in the attached estimate:

Estimated Non-Participating Items	\$75,000.00
Construction Engineering (estimated at approximately 6%)	<u>\$4,500.00</u>
Subtotal	\$79,500.00
Fuel Adjustment	<u>\$5,000.00</u>
Subtotal	\$84,500.00
Less RSA 228:22 Reimbursement	\$2,048.90
Subtotal	\$82,451.10
10% Department Overheads	<u>\$8,245.11</u>
Estimated Total Actual Cost due	\$90,696.21

Amend Paragraph 7 to read:

7. The Town agrees to remit payment to the Treasurer, State of New Hampshire, through:
- Accounts Receivable Supervisor
Bureau of Finance and Contracts
New Hampshire Department of Transportation
7 Hazen Drive, PO Box 483
Concord, NH 03302-0483

in the amount of the bid item totals, plus construction engineering estimated at 6%, fuel adjustment, and 10% for overhead expenses, minus the reimbursement amount, for the non-participating sewer main sleeve extension and carrier pipe installation work described in Paragraph 1 prior to the award of the Contract. The actual payment total required will be provided prior to the work. Should the funds (approximately \$90,696.21) not be provided, the sewer main sleeve extension and carrier pipe installation work in excess of that length required to be relocated due to construction conflicts will be deleted from the Contract; and the Town will be billed for the costs of the required relocated length, minus State reimbursement.

Amend Paragraph 9 to read:

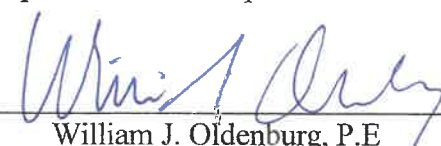
- 9. The State agrees to reimburse the Town the amount of \$2,048.90 for trench and backfill. The Town agrees that this amount, to be deducted from the payments described above, fulfill the State's obligation of RSA 228:22 trench and backfill.


All other terms and conditions of said Agreement remain unchanged.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment to Agreement on the day and year first above written.

THE STATE OF NEW HAMPSHIRE
Department of Transportation

TOWN OF MERRIMACK
DEPARTMENT OF PUBLIC WORKS

By: 
 William J. Oldenburg, P.E.
 Director of Project Development

By: 
 (Signature)

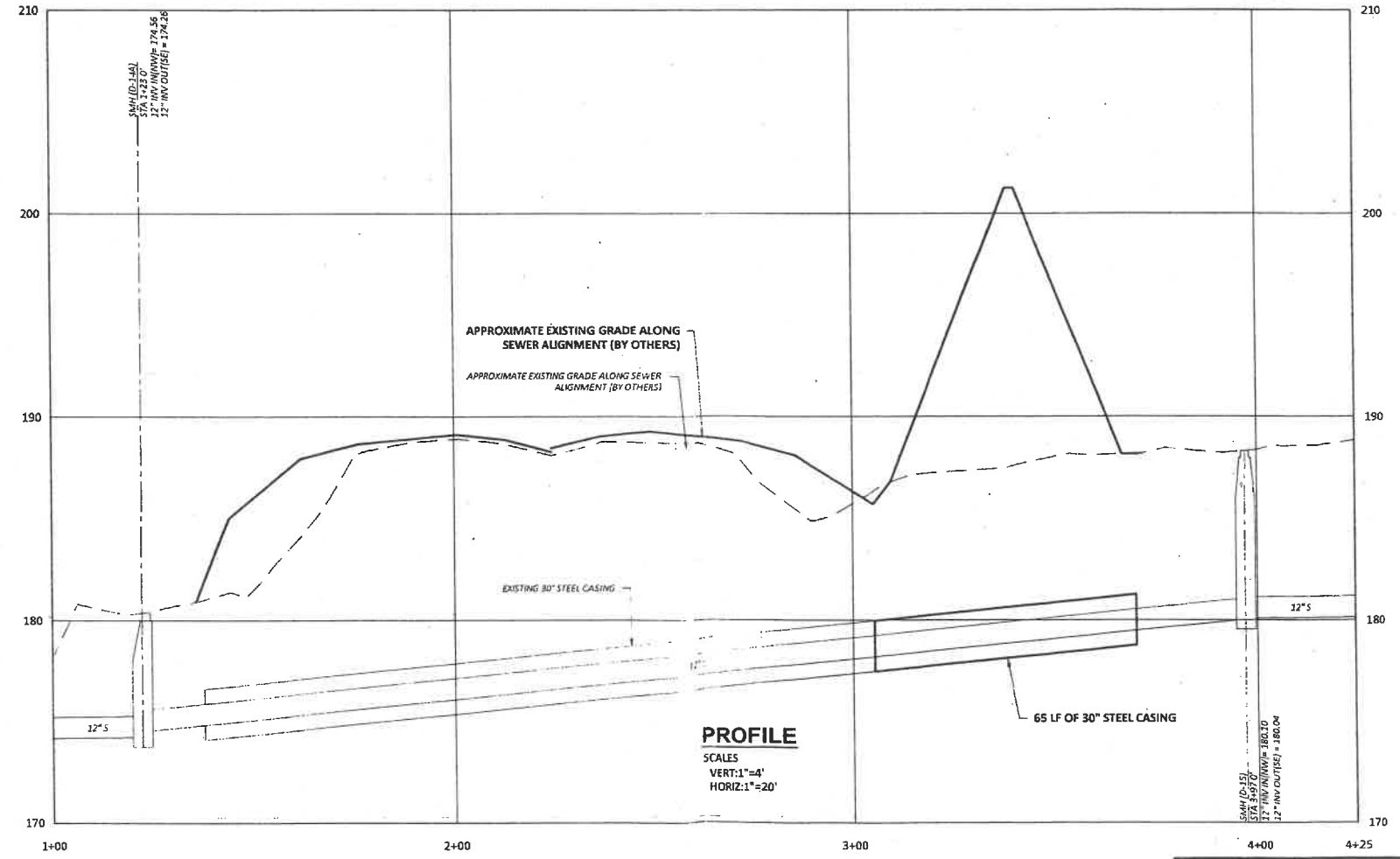
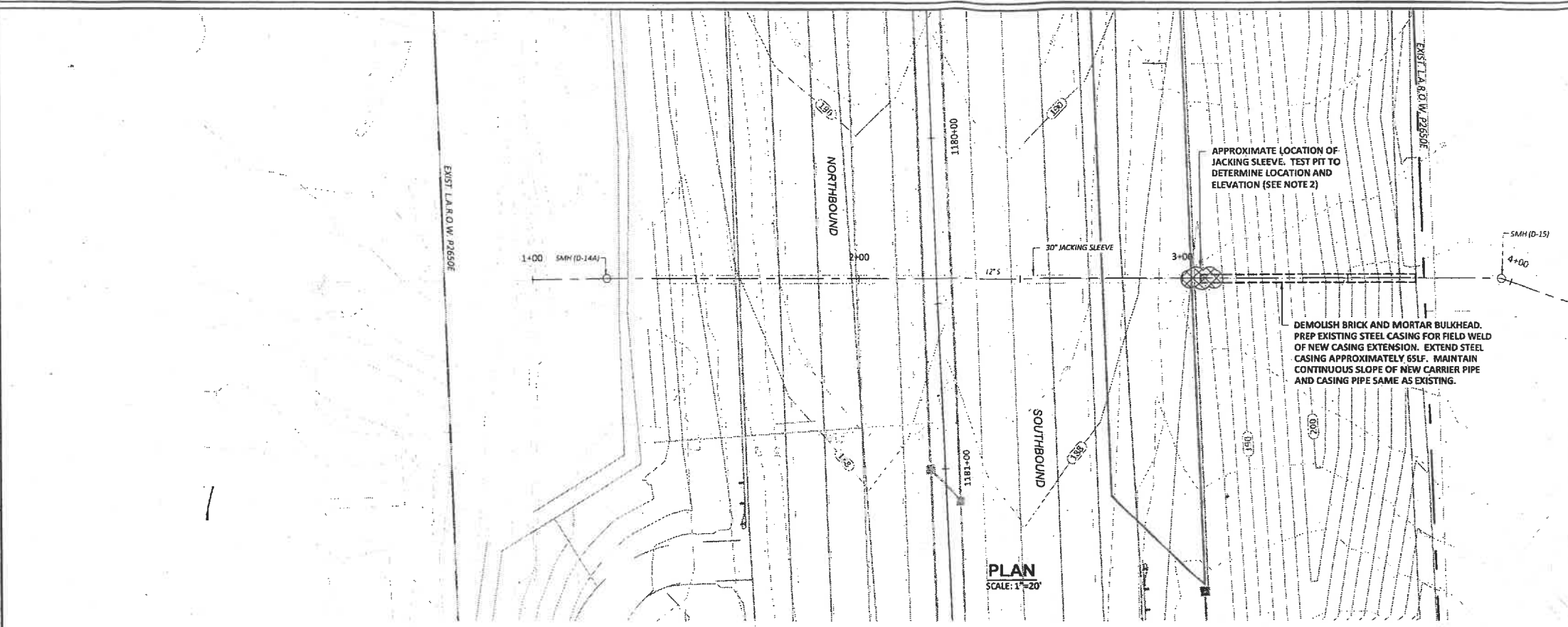
Paul T Micali
 (Typed or Printed Name)

Town Manager
 (Title)

JAM

Attached Plans and Estimates Are a Part of This Amendment

DESCRIPTION	STATION	STATION	DATE	NUMBER	DATE	DATE	DATE
REVISIONS AFTER PROPOSAL							
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
02/23/2023							
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
05/09/2023							



- NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR SEWER BY-PASS PUMPING. CONTRACTOR SHALL COORDINATE SEWER BY-PASS WITH TOWN OF MERRIMACK PUBLIC WORKS AND DOT. BY-PASS SHALL NOT BE ALLOWED ACROSS THE TRAVEL WAY OF F.E. EVERETT TURNPIKE. SEWER FLOWS SHALL BE PUMPED AND TRUCKED TO A DOWNSTREAM MANHOLE. COORDINATE WITH TOWN OF MERRIMACK.
 - TEST PIT TO BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER AND OWNER FOR REVIEW. CONTRACTOR TO COORDINATE WITH THE TOWN OF MERRIMACK BEFORE PERFORMING TEST PIT.
 - BRICK AND MORTAR BULKHEADS TO BE CONSTRUCTED ON EITHER END OF STEEL CASING (SEE SPECIFICATIONS FOR BULKHEAD REQUIREMENTS).

WRIGHT-PIERCE

STATE OF NEW HAMPSHIRE
NASHUA-MERRIMACK-BEDFORD
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

SEWER PLAN AND PROFILE



05/15/2023

ISSUED FOR BID

DATE 05/09/2023

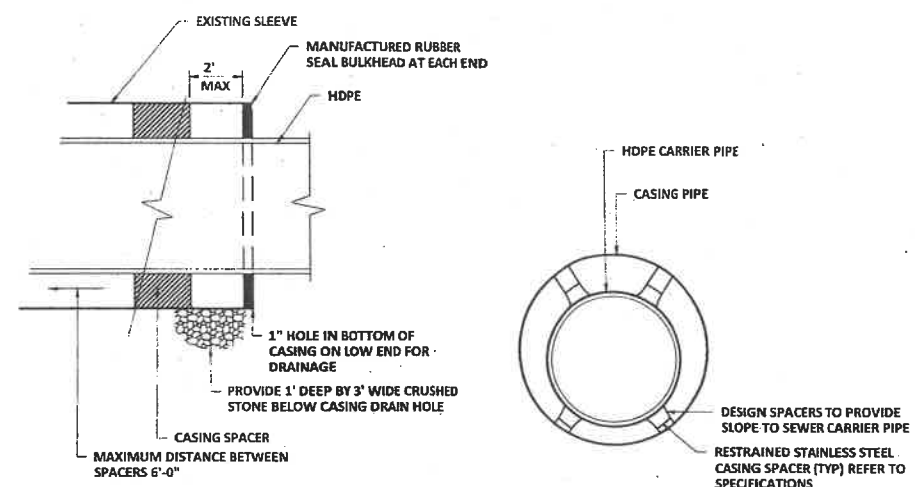
DATE PRINTED	MJ PROJECT NO.	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
05/09/2023	18589.00			13761E		

DESCRIPTION	STATION	STATION	DATE	NUMBER
REVISIONS AFTER PROPOSAL				
DATE	DATE	DATE	DATE	DATE
SDR PROCESSED	NEW DESIGN	SHEET CHECKED	AS BUILT DETAILS	
	MIKE STEIN			

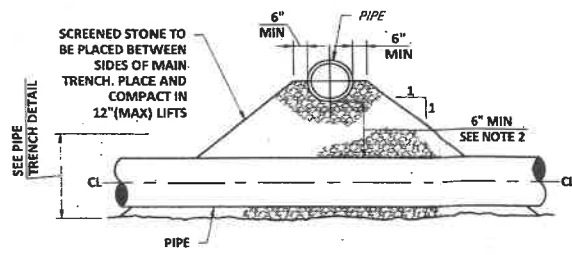


05/15/2023

ISSUED FOR BID
DATE 05/09/2023

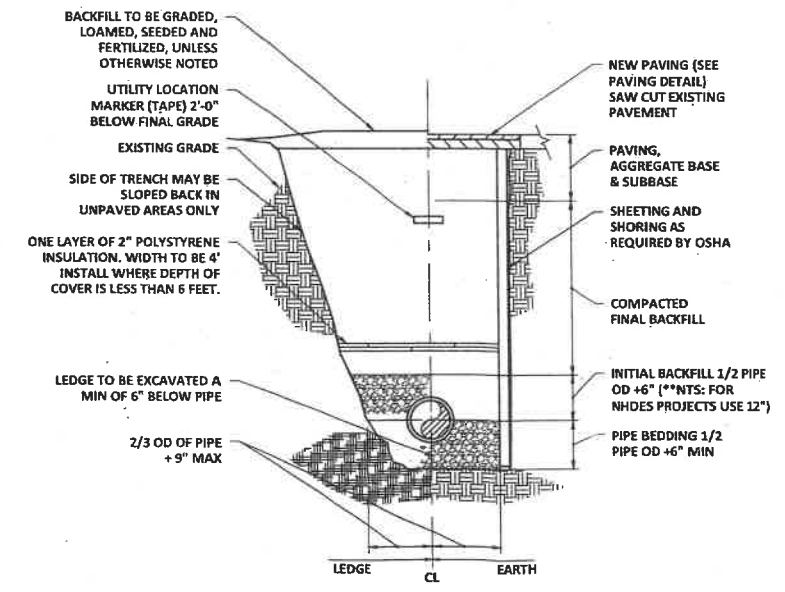


TYPICAL SLEEVE/CARRIER PIPE DETAIL
SCALE: "NTS"



- NOTES:
1. JOINTS ON EACH PIPE TO BE AS FAR FROM INTERSECTION AS POSSIBLE.
2. IF LESS THAN 12", FLOWABLE FILL MAY BE REQUIRED RATHER THAN SCREENED STONE TO FACILITATE PROPER PIPE BEDDING AND COMPACTION AT ENGINEER'S DISCRETION.

PIPE CROSSING
SCALE: NTS



- NOTES:
1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
2. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.

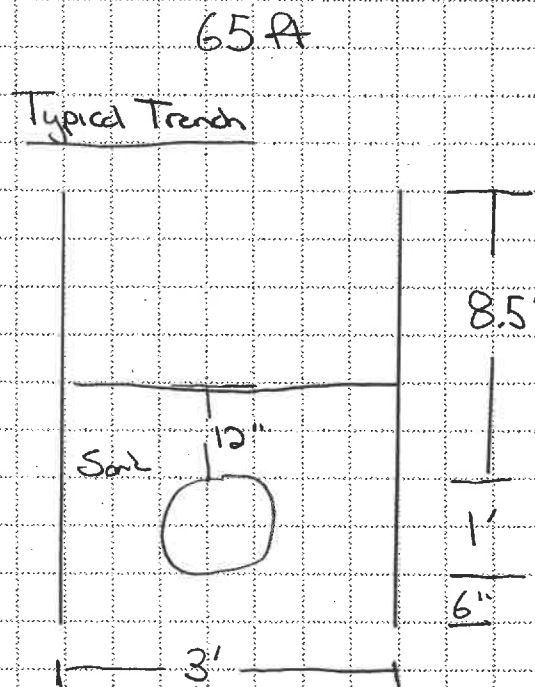
PIPE TRENCH
SCALE: "NTS"



STATE OF NEW HAMPSHIRE
NASHUA-MERRIMACK-BEDFORD
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
SEWER DETAILS

DATE PRINTED	PROJECT NO.	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
05/09/2023	18589.00			13761E		

Trench at Backfill Limit



(12" Double Iron)
(Sewer Sleeve Extension)

$$V = (\text{Length}) \times (\text{Width}) \times (\text{Depth})$$

$$\begin{aligned} \text{Length} &= 65 \text{ ft} \\ \text{Width} &= 3 \text{ ft} \\ \text{Depth} &= 10 \text{ ft} \end{aligned}$$

$$\begin{aligned} V &= (65)(3)(10) \\ &= (1,950 \text{ ft}^3) \left(\frac{1 \text{ CY}}{27 \text{ ft}^3} \right) \end{aligned}$$

$$V = \underline{\underline{72.22 \text{ CY}}}$$

Sand Volume

$$V_{\text{sand}} = [L \times W \times H] - (P \times V_{\text{pipe}})$$

$$= [(65 \text{ ft})(3 \text{ ft})(2.5 \text{ ft}) - \pi (0.5')^2 (65 \text{ ft})]$$

$$= [487.5 \text{ ft}^3 - 51.05 \text{ ft}^3]$$

$$= (436.45 \text{ ft}^3) \left(\frac{1 \text{ CY}}{27 \text{ ft}^3} \right)$$

$$= \underline{\underline{16.16 \text{ CY}}}$$

Trench and Backfill Reimbursement

Items:	Unit Cost
206.1 Common Structural Excavation	\$23.00 / CY
209.3 Granular Backfill (Sand)	\$24.00 / CY

- * 206.1 Unit Cost taken from Project estimate
- 209.3 Unit Cost taken from Weighted Unit Averages

Calculation

$$\begin{aligned}
 \text{Trench + Backfill} &= [(\text{Trench Volume})(\text{Unit Cost})] + [(\text{Sand Volume})(\text{Unit Cost})] \\
 &= [(70.00)(\$23.00/\text{CY})] + [(16.16/\text{CY})(\$24/\text{CY})] \\
 &= [\$1,661.00] + [\$387.84] \\
 &= \underline{\underline{\$2,048.90}}
 \end{aligned}$$