

TOWN OF MOUNT WASHINGTON

INFORMATION TO BIDDERS

DATE: September 21, 2022
TO: All Qualified Bidders
FROM: Jonathan Hoskins - Highway Foreman Town of Mount Washington,
2 Plantain Pond Road, Mount Washington, MA 01258
RE: Invitation for Bids
Pipe Culvert Improvements 2022

The Town of Mount Washington, ("Town") acting through its Highway Foreman invites sealed bids from contractors who are pre-qualified by the Massachusetts Department of Transportation (MassDOT) to replace select Pipe Culverts on East and West Street to improve drainage on these gravel roads and repair unsuitable gravel road areas in the Town of Mount Washington. Specifications for this job are outlined on the attached Bid Proposal Form and must be strictly followed. No modifications will be allowed. All bid proposals must be made on the Bid Proposal Form and must be complete. Incomplete submissions will be deemed non-responsive and will be rejected. Only those contractors who have been pre-qualified by the Massachusetts Department of Transportation (MassDOT) and have a pre-approval form will be allowed to receive Bid Proposal Packages and bid on this project. MassDOT prequalification of contractors with the class of work as "Drainage" for the project with an estimated value of \$241,000 will be required.

All bids must be accompanied by a bid deposit of five percent (5%) of the bid price in the form of a bid bond, cash, certified or cashier's check issued by a responsible bank or trust company, payable to the Town of Mount Washington. Bid bonds shall be with a surety company qualified to do business in the Commonwealth of Massachusetts and shall be satisfactory to the Town.

Completed Bid Proposal Forms must be received at the Office of the Board of Selectmen which is located at 2 Plantain Pond Road by **October 5, 2022, at 12:00 PM**. Bids will be publicly opened and read aloud at 12:10 PM.

Proposals must be sealed and clearly marked "**Pipe Culvert Improvements 2022**". Bids received after the deadline will be returned, unopened. Corporate bidders must submit an executed Certificate of Vote (form attached to Bid Proposal Form) stating that the person signing the bid has the authority to bind the corporation. Bids may not be withdrawn within 30 consecutive days after the bid opening.

At the time of the opening of the bids, each bidder will be presumed to have read and be thoroughly familiar with the specifications for this project. The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to their bid.

Each bidder shall inform themselves of the conditions relating to the project and the employment of any labor thereon. Failure to do so will not relieve a successful bidder of their obligation to furnish all equipment, material, and labor necessary to carry out the provisions of the contract.

All bidders must submit with their bid a completed and signed Non-Collusion Certificate which is included in the Bid Proposal Form.

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The Town may make such investigations as it deems necessary to determine the ability of any bidder to perform the work, and the bidder shall furnish to the Town all such information and data for this purpose as it may request. The Town reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy it that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

A contract for the project in the same form as that enclosed in this package will be awarded within 30 days by the Board of Selectmen to the qualified, responsive bidder with the lowest total price for the project. The Town reserves the right to reject any and all bids. The bidder agrees that its bid shall be good and not withdrawn for a period of 30 days, Saturdays, Sundays, and legal holidays exclude, after the date of opening the bids. Substantial completion of the project shall be no later than **June 20, 2023**. Once commenced, all work should be uninterrupted until completion.

This project is subject to Section 26-27G of Chapter 149 of the Massachusetts General Laws as amended, including, but not limited to, the following:

- Prevailing wage rates as determined by the Commissioner of Labor and Industries must be paid on this contract. A copy of said rates is contained herein. All reports and records required shall be maintained and/or submitted by each contractor and subcontractor.
- The successful bidder shall furnish to the Town a one hundred percent (100%) Construction Payment Bond with a surety company acceptable to the Town.

This project is being bid under of Chapter 90 of the Massachusetts General Laws and will be subject to the provisions of that statute.

Prior to the execution of a contract, the successful bidder shall furnish to the Town Certificates of Insurance which evidence the maintenance of the following insurance policies:

General Liability

Bodily Injury Liability:	\$ 1,000,000 per occurrence
Property Damage Liability:	\$ 500,000 per occurrence
(or combined single limit)	\$ 1,000,000 per occurrence

Automobile Liability

Bodily Injury Liability:	\$ 1,000,000 per occurrence
Property Damage Liability:	\$ 500,000 per occurrence
(or combined single limit)	\$ 1,000,000 per occurrence

Workers Compensation Insurance

Coverage for all employees in accordance with Massachusetts General Laws.

All Certificates of Insurance shall include the Town of Mount Washington as an additional named insured and shall require a thirty-day notice of cancellation to the Town.

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GENERAL CONDITIONS

SCOPE OF WORK

The scope of work under this Contract consists of furnishing all necessary labor, material, and equipment required to provide construction contractor services for the following and all other appurtenant work required to complete the work, approved and accepted by the Owner.

Gravel Roadway Repair Areas

Excavation, removal, and disposal of existing unsuitable material in 18 specific roadway sections and the furnish & installation of modified gravel including rough grading and compaction. Gravel roadway repair area locations can be found in the attached map.

Pipe Culvert Replacement

Excavation, removal and on-site stockpile of existing material, removal and disposal of existing pipe culverts, and the furnish & installation of new corrugated polypropylene drainage pipe culverts with appropriate setting bed, the back-fill of excavated trenches with existing material including fine grading and mechanical vibratory compaction of the road to match existing finished grades of the gravel roadways.

The Contractor shall coordinate schedules with the Town of Mount Washington Highway Department for final reshaping, fine grading, and compaction completed by the Owner. This work shall also include all other work described in the Contract Documents unless specifically indicated as not to be done.

All work to be completed under this Contract shall be in conformance with the Commonwealth of Massachusetts Department of Transportation Standard Specifications for Highways and Bridges dated 2022, the 2017 Construction Standards and the Supplemental Drawings dated April 2003, the 2006 Massachusetts Highway Department Project Development and Design Guide dated February 25, 2010, and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) with revisions and Massachusetts Amendments.

All work shall comply with the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973, Specifically the ADA Standards for Accessible Design, Latest Edition, with all revisions, at a minimum and the Public Right-of-Way Accessibility Guidelines (PROWAG) where possible, and the Architectural Access Board (AAB) Section 521 of the Code of Massachusetts Regulations where applicable.

The General Conditions, Supplementary Conditions and Special Provisions shall take precedence over the General Requirements of Division I of the MassDOT Standard Specifications.

References within the Standard Specifications to MassDOT, the Owner, Department, or the Engineer shall, for the purposes of this Contract, be construed to mean the Town of Mount Washington or its designated representative.

LIMITS OF WORK

The exact limits of work must be reviewed and delineated with the Engineer in the field prior to the Contractor beginning work. The Contractor is responsible for taking accurate measurements of actual field conditions prior to ordering proposed materials or beginning construction.

Culvert Table

Culvert ID	Street Name	Existing Pipe Diam. (IN)	Proposed Pipe Diam. (IN)
6	WEST STREET	18	18
8	WEST STREET	12	15
9	WEST STREET	18	18
11	WEST STREET	12	12
12	WEST STREET	12	15
13	WEST STREET	18	18
14	WEST STREET	12	15
15	WEST STREET	24	24
17	WEST STREET	12	18
19	WEST STREET	18	18
20	WEST STREET	18	18
43	EAST STREET	18	18
44	EAST STREET	18	24
45	EAST STREET	24	24
46	EAST STREET	16	18
48	EAST STREET	18	24
49	EAST STREET	18	24
50	EAST STREET	18	18
51	EAST STREET	18	24
56	EAST STREET	18	24
59	EAST STREET	18	18
68	EAST STREET	15	18

Location maps of the proposed work can be found as an attachment

ORDERING OF MATERIALS AND DRAWINGS

The Contractor shall provide the Engineer within 30 days of receipt of the contract, written evidence that:

1. Contractor has ordered the shop drawings for the materials for which shop drawings are required for this contract;
2. Contractor has ordered from a supplier or manufacturer materials necessary to complete the project.

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The Contractor shall further provide the Engineer written evidence within 30 days of receipt of the Contract that these orders have been confirmed in writing by the manufacturer with delivery dates appropriate for timely completion of the project. These confirmations of orders will become part of the project records.

Failure to comply with any of the ordering requirements shall nullify a request for an extension of the project completion date.

SHOP DRAWING SUBMITTAL

The following is a list of items and materials that require shop drawing or catalog cut approval:

1. Corrugated Polypropylene Pipe
2. Gravel Borrow (Type D)
3. Gravel Borrow (Modified)

CONCURRENT WORK BY OTHERS WITHIN PROJECT LIMITS

Concurrent work may be in progress in the project areas by others. The Contractor is required to coordinate activities with all work by others within and adjacent to the project limits.

No additional payments will be allowed for any disruption of work schedule caused by or required to coordinate work in this contract and work to be performed by others.

STEEL PLATES IN CONSTRUCTION ZONES

At the end of each working day trenches in areas of public travel shall be backfilled and covered with steel plates, each edge of such plates shall either be beveled or protected by a slope of two (2) feet horizontally to one (1) inch vertically. Any temporary patching material may be used to construct the ramps. The cost of necessary patching materials, and their maintenance and removal, will be considered incidental to the item involved with no separate payment.

PROTECTION OF UNDERGROUND FACILITIES

The Contractor's attention is directed to the necessity of conducting their own investigation in order to assure that no damage to existing structures, drainage lines, traffic signal conduits, etc., will occur. The Contractor shall notify the Mt. Washington and Mass. DIG SAFE and procure a DIG SAFE number for each location prior to disturbing the existing ground in any way.

DIG SAFE Call Center 1-888-344-7233

The Contractor shall notify the City and Dig Safe 72 hours prior to start of construction.

DRAINAGE

It shall be the Contractor's responsibility to maintain proper drainage in the areas under construction until the final system is put into use.

All affected existing pipes and structures within the limits of this contract shall be left in a clean and operable condition at the completion of the work. It shall be the responsibility of the Contractor to make certain that new drainage systems carrying run-off from the limit of this project operate efficiently to their points of discharge into existing systems. Debris in pipes and structures, including deposition of

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hazardous material as a result of the Contractor's operations shall be removed by the Contractor in accordance with state and federal guidelines without compensation.

All the above work shall be included under the relevant drainage item without additional compensation therefore. Any adjustments made to new drainage structures will be included under the contract unit price for the respective structures.

DRAINAGE SYSTEM

It shall be the Contractor's responsibility to maintain a proper drainage system at all times in the areas under construction. Existing drainage shall not be taken out of service without prior written notice to the Owner. All pipes and structures installed as part of this Contract shall be left in a clean and operable condition at the completion of the work.

The Contractor shall clean and flush all affected drainage structures at the end of the work to the satisfaction of the engineer. The price associated with this work will be deemed incidental to the contract. No separate payment will be made for the maintenance of the existing drainage system.

The Contractor shall provide the Owner with documentation of the final condition of drainage work, i.e. "As-Builts". The Contractor shall submit such record information in a form approved by the Owner.

PROTECTION OF PERSONAL PROPERTY

The Contractor shall exercise due care when working around all personal property and roadside features which are to remain. Any damage resulting from the actions of the Contractor, shall be replaced and/or repaired by the Contractor as directed by the Engineer. No further compensation will be due the Contractor for the materials and labor required to protect personal property, roadside features to remain or protection for trees.

ITEMS INCIDENTAL TO THE CONTRACT

These items shall be included in the cost of appurtenant work as incidental to the items listed to be included in the Bid Proposal.

1. Mobilization
2. Fine Grading & Mechanical Vibratory Compaction
3. Temporary Traffic Control
4. Maintenance and Movement of Temporary Traffic Control Devices
5. Erosion Control
6. Clearing & Grubbing
7. As-builts

WORK SCHEDULE

Work on this project is restricted to 7:00 A.M. to 4:30 P.M. Monday through Friday. The Prime Contractor will have superintendent on site whenever work is being performed. No work shall be done on this contract outside working hours and on Saturdays, Sundays, or Holidays, unless approved by the Owner in advance. Work will not be allowed the day before or the day after a long weekend, which involves a holiday without prior approval by the Owner. If approved, work conducted outside of normal Daytime work hours shall be executed at the Contract Bid unit prices, no compensation for work outside of normal hours shall be made for this work.

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There shall be no work beyond the winter shut down date, unless approved in writing by the Engineer. Workdays shall be continuous to the winter shut down. No additional compensation shall be made for variations in work schedule.

SCHEDULE OF OPERATIONS

The Contractor shall construct each phase in order as shown in the limits of work unless otherwise directed or approved by the Engineer. The Contractor may work on more than one phase at a time, coordinated with and approved by the Engineer. It shall be the Engineer's option to alter the phasing of work at any time during the project when a change is deemed to be in the best interest of the public. It should be noted that any costs of delays, incurred by these procedures, or changes in these procedures shall be deemed to be included in the contract prices bid and not cause for additional compensation.

MEASUREMENT AND PAYMENT

PAYMENT ITEMS

Work Items of this Project are referenced with Item Numbers and Item Descriptions similar to those currently in use by the MassDOT.

BASIS OF MEASUREMENT AND PAYMENT

Method of Measurement and Basis of Payment for Work Items shall be as called for under the appropriate section of the MassDOT Standard Specifications, unless modified in the Contract Documents.

UNIT PRICES

Payment will be computed on the basis of the unit price bid for each Item and the quantity of units completed. Unit prices are to include cost of all necessary materials, labor, equipment, overhead, profit and other applicable costs for items installed complete and accepted by the Engineer. No Payments will be made for the purchase or stockpile of materials or incidentals to the completed items.

The Owner reserves the right to increase or decrease the scope of the Contract work.

LUMP SUM PRICES

Payment will be computed on the basis of the percentage of work completed on each item in the contract BID as determined by the Engineer. Lump sum prices are to include the cost of all necessary materials, labor, equipment, overhead, profit and other applicable costs for items installed complete and accepted by the Engineer. No Payments will be made for the purchase or stockpile of materials or incidentals to the completed items.

The Contractor's breakdown of the lump sum bid will be used only as a guide to determine the percentage of completion.

PRICES INCLUDE

The prices stated in the Proposal include full compensation not only for furnishing all the labor, equipment and material needed for, and for performing the work \ contemplated by, the Contract, but also for assuming all risks of any kind for expenses arising to facilitate the work in a timely manner and all items and incidentals included in the Contract Documents.

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The Owner shall pay and the Contractor shall receive the prices stipulated in the BID made a part hereof as full compensation for everything performed and for all risks and obligations undertaken by the Contractor under and as required by the Contract. No payments will be made for work that has not been approved and accepted by the Owner.

The prices for those Items which involve excavation shall include compensation for disposal of surplus excavated material and handling water.

PAYMENT

In general, payment will be made for all Contract work satisfactorily completed through the end of the previous month. The payment will include any additional work which has been completed and approved and change order work agreed upon by the Owner and Contractor which has been completed and approved.

Each application for payment will indicate the total of a minimum percent retainage, held by the Owner on the total of all work completed under the contract and approved for payment to-date.

Monthly applications for payment may also indicate reduction or increase of the total Contract price when an approved change order results in a net reduction or net increase in the cost and quantity of work to be performed under the Contract.

Special billings and charges against the Contract as credit or payment to the Owner, that are not for change order work, may be subtracted from monies due on any monthly application for payment but shall not serve to reduce the total Contract price.

Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for work which is incorporated in or made necessary by the Work.

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TOWN OF MOUNT WASHINGTON

BID PROPOSAL FORMS

Department: Highway Department

Project/Job: Pipe Culvert Improvements 2022

Bids Due: October 5, 2022, at 12:00 PM (opened at 12:10 PM)
Office of the Board of Selectmen
Town Hall, 2 Plantain Pond Rd
Mount Washington, MA 01258

All requested information in this form must be provided. The Bid Proposal Form Checklist on must be completed and signed indicating the receipt and understanding of all requirements of this bid.

Having fully examined, read, and in understanding of the specifications for this job and being familiar with all of the conditions surrounding the proposed work, the undersigned proposes to carry out work in accordance with the noted specifications at the unit prices as stated.

The Bidder agrees to perform all of the work contained within the Contract, at the discretion of the Owner, in accordance with all terms and specifications contained herein at the proposed unit prices.

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CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature/Title

Company/Firm Name

BID ITEM SHEET

The Bidder shall insert unit prices for each item in ink, in both words and figures, and is to show a total bid price (unit price times the estimated quantities). In the event a discrepancy between the written words and figures, the written words shall govern. In the event an error in the bidders total bid price, the corrected total bid obtained by the summation of the products of the unit prices multiplied by the respective quantities shall stand as the Bidder's total bid price.

Unbalanced bidding is expressly prohibited and all unit bid prices will be compared for reasonable conformance with the Engineer's Estimate. The Owner has the right to reject award of any bid, or part thereof, to protect the public interest if it is apparent that a bid is (1) mathematically unbalanced, (2) the bidder front-end loads its bid as to amount to an advanced payment, (3) there are extreme variations from the engineer's estimate or other bids received, (4) if in the opinion of the Owner, the unit prices create a reasonable doubt that that apparent low bidder will actually result in the lowest cost to the Department, and/or (5) if the overall competitive bidding process has been jeopardized.

The estimated quantities shown here are based solely upon a reasonable assessment of the project parameters, thus the Bidder is advised that the actual quantities may vary substantially as field conditions may necessitate. Regardless of the amount of actual quantities, however, the quoted unit prices shall always apply.

There is no separate labor charge under this bid: unit prices shall include full compensation for all labor, materials, tools and equipment, and all incidentals necessary to complete the work as specified herein.

METHOD OF AWARD

TO ENSURE CONTRACTOR ACCOUNTABILITY, THE OWNER INTENDS TO AWARD ALL ITEMS TO A SINGLE CONTRACTOR. ACCORDINGLY, CONTRACTORS MUST BID ON ALL ITEMS OF WORK, AND THE LOW BIDDER WILL BE THE CONTRACTOR WHOSE TOTAL BID PRICE IS THE LOWEST. THE BID QUANTITIES ARE NOT GUARANTEED, AND THEIR PRIMARY PURPOSE IS FOR THE DETERMINATION OF THE LOW BIDDER.

ITEM DESCRIPTION & BID PRICE	EST QTY.	UNIT	TOTAL
ITEM 120.1: UNCLASSIFIED EXCAVATION THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	1,270	CY	\$ _____

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ITEM DESCRIPTION & BID PRICE	EST QTY.	UNIT	TOTAL
ITEM 121: CLASS A ROCK EXCAVATION THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	10	CY	\$ _____
ITEM 151.99: GRAVEL BORROW (MODIFIED) THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	1,270	CY	\$ _____
ITEM 252.24: 12" CORRUGATED PLASTIC PIPE THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	40	FT	\$ _____
ITEM 252.24: 15" CORRUGATED PLASTIC PIPE THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	120	FT	\$ _____
ITEM 252.24: 18" CORRUGATED PLASTIC PIPE THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	420	FT	\$ _____

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ITEM DESCRIPTION & BID PRICE	EST QTY.	UNIT	TOTAL
ITEM 252.36: 24" CORRUGATED PLASTIC PIPE THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER UNIT	300	FT	\$ _____
TOTAL BID: _____ DOLLARS AND _____ CENTS (\$ _____) Amount in Figures			

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BID PROPOSAL FORM CHECKLIST

Each of the below named items should be included in this bid package. Check off in the appropriate place below all items and sign indicating your receipt of each of the items. If any of these items are not in your package, you must obtain them and read them before submitting a proposal. If any of the below named items are not checked or if this form is not signed, your proposal will be rejected as non-responsive.

Job/Project: **Pipe Culvert Improvements 2022**

_____ Invitation to Bid

_____ Bid Proposal Form

_____ Specifications
(6 pages)

The undersigned certifies under penalties of perjury that he/she has received, read and understands all the above noted items which are an integral part of this bid proposal.

Signature/Title

Company/Firm Name

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REFERENCE LIST

Please list six (6) similar projects that have been completed.

Owner:
Address:
City, State, Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City, State, Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City, State, Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City, State, Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City, State, Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City, State, Zip:
Contact:
Phone:
Contract Amount:

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CONSTRUCTION SPECIFICATIONS

ITEMS

The following items reflect special conditions particular to this project. As such, they amend and/or supplement the provisions governing the Item, as described in the Standard Specifications.

ITEM 151.99 **GRAVEL BORROW (MODIFIED)** **CUBIC YARD**

DESCRIPTION

The work described for this item shall conform to the requirements and provisions of relevant Sections of the MassDOT Standard Specifications along with the latest Supplemental Specifications, including but not limited to, Sections 150 and 170, and Gravel Borrow shall conform to Material Specifications M1.03.0 and the following.

MATERIALS

Modified Gravel Borrow shall conform to Material Specifications M1.03.0 and shall conform to the modified gradation as follows:

<i>Sieve Designation</i>	<i>Percent Passing</i>
1 in.	100
No 4	45 – 70
No 8	27 – 55
No 40	10 – 28
No 200	3.0 – 8.0
<i>Other Properties</i>	
Liquid Limit (max)	25
Plasticity Index	3-10
LA Abrasion Loss (max)	40
Crushed Particles (min) + #4 Sieve	30% 1-CF

CONSTRUCTION METHOD

Gravel Borrow shall be placed with a maximum lift thickness of six (6) inches. Where required, trenches shall be backfilled with approved granular materials and properly compacted to the minimum density of 90 percent of the maximum density as determined by ASTM D1557 (Modified Proctor). All other gravel areas shall be compacted to the minimum density of 95 percent of the maximum density. Any settlements or other defective work and material shall be promptly repaired or replaced at the Contractor's expense. The density of the compacted fill shall be determined by the ASTM D6938 Nuclear Method or latest ASTM standard.

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The shaping, fine grading, compacting and finishing of the surface of the subgrade, the grading and finishing of all unpaved areas, and the preparation of all areas for topsoil, loam, slopes, and sidewalk/roadway paving shall be completed in close conformance with the lines, grades and typical cross-sections described in the specifications, or as directed or established by the Engineer.

Fine grading and mechanical vibratory compaction shall be considered incidental to this item for gravel roadway repair areas.

MEASUREMENT AND PAYMENT

Payment for this item shall be at the Contract Unit Price bid per Cubic Yard completed in place and accepted by the Engineer. The price stated shall include all labor, materials, and equipment for, but necessarily limited to, fine grading, mechanical vibratory compaction, necessary testing, and any incidentals necessary to complete the work to the satisfaction of the Engineer.

252.12	12 INCH CORRUGATED PLASTIC PIPE	FT
252.15	15 INCH CORRUGATED PLASTIC PIPE	FT
252.18	18 INCH CORRUGATED PLASTIC PIPE	FT
252.24	24 INCH CORRUGATED PLASTIC PIPE	FT

DESCRIPTION

The work described for this item shall conform to the requirements and provisions of relevant Sections of the MassDOT Standard Specifications along with the latest Supplemental Specifications, including but not limited to, Section 200 and the following.

MATERIALS

Corrugated plastic pipe shall be ADS N-12 WT manufactured by Advanced Drainage Systems (ADS), Inc., or approved equal.

CONSTRUCTION METHOD

Corrugated plastic pipe shall be installed per the manufacture's specifications. Corrugated plastic pipe shall include Gravel Borrow Type d backfill material.

MEASUREMENT AND PAYMENT

Measurement and Payment shall be consistent with Sections 230.80 and 230.81 plus the following. Payment for this item shall be at the Contract Unit Price bid per Foot completed in place and accepted by the Engineer. The price stated shall include all labor, materials, and equipment for, but necessarily limited to, excavation, legal disposal of existing pipe and trench material, furnish and installation of pipe with any necessary connections/fittings, backfill (Gravel Borrow Type D), fine grading, mechanical vibratory compaction, necessary testing, and any incidentals necessary to complete the work to the satisfaction of the Engineer.