



Town of Farmingdale
289 Maine Ave.
Farmingdale Maine 04344
207-582-2225
Farmingdaleclerk@roadrunner.com

Request for Proposals

For

Farmingdale Meter Manhole Cover Replacement

RELEASED February 9, 2021

GENERAL

The Town of Farmingdale is seeking sealed proposals for Meter Manhole Cover Replacement.

QUESTIONS

Bidders shall direct all technical or engineering questions, including requests for explanations or interpretation, in writing to the Town. All questions must be in writing/facsimile and must be received at least five (5) business days before bid opening. A question and answer sheet will then be provided to all interested proposers who have email addresses on file. Any addendums will be published on the Town's website (www.farmingdale.maine.org).

RESPONSES

Responses to the RFP must be sealed and are due at 5:00pm local time on March 9, 2021. Emailed or faxed submissions will not be accepted. Only hand-delivered or mailed responses are acceptable. Title of RFP and Contractors name must be clearly marked on the front of the envelope.

SUBMISSION REQUIREMENTS

All submissions must include the following information to be considered by the Town of Farmingdale:

- Cover letter stating the company's interest in the RFP
- List of equipment that the company controls to be used for this contract.
- List of references (three minimum, two of which must be commercial).
- Proof of insurability (one-million-dollar liability with the Town listed as additionally insured).
- A complete RFP Response page (included).

EXCEPTIONS

BOS

BOS

BOS

Contractor

Please list any exceptions to your proposal on a separate sheet and include it with your response.

CONTRACT PRE-REQUISITES

The Bidder certifies that it has the financial ability to procure all necessary services and materials and has, or will have sufficient personnel and equipment to perform the contract and is able to complete the project in the time required. Bidder also certifies that it has adequate and up-to-date liability & automobile insurance, workers comprehensive insurance, and all that necessary personnel are properly trained and/or licensed to operate required equipment.

Bidder attests that it has an in force "Drug-Free Workplace Policy".

Before submitting a Bid, the Bidder is responsible for: (A) obtaining and examining the plans, specifications, all bid amendments, and all other bid documents; (B) examining the information provided or referenced in the bid documents; (C) examining the site(s) of work and making other examinations and investigations that are needed to make the Bidder fully aware of the conditions that would be encountered in performing the work, and (D) communicating with the Town before bid opening.

If so required by the Town, bids must be accompanied by a Bid Guarantee which must be: (A) in the amount specified in the Notice to Contractors and the bid documents; (B) made payable to the "Town of Farmingdale"; and (C) one of the following types: a bid bond conforming to the next paragraph, a cashier's check, a certified check, or a United States Postal money order.

RESERVATION OF RIGHTS

The Town of Farmingdale reserves the right to reject any and all bids or proposals, decline to proceed with the selection of any candidates, to request additional qualifications and to make inquiries as may be necessary to verify qualifications. Nothing in this document shall require the Town of Farmingdale to proceed with any of the identified services stated in this request for proposals. If the Town of Farmingdale enters a contract for services, the Town shall have the exclusive authority to make decisions regarding any project or work readiness, compliance, and completion.

CONTRACT AWARD

When awarded, a contract with the specifications of the agreement shall be sent to the company selected by the Town.

INDEMNIFICATION

The Contractor agrees to hold the Town of Farmingdale harmless from any claim of death, injury, property damage or other loss that may result from the Contractor's performance under the contract, including negligent acts and omissions. In the event that such a claim is made against the Town of Farmingdale, the Contractor shall defend the Town of Farmingdale, and shall hold harmless and indemnify the Town of Farmingdale for any damages.

FEDERAL PROCUREMENT REQUIREMENTS (for contracts with federal support)

The Town of Farmingdale shall follow the standards of conduct provided in 2 C.F.R. §200.318(c)(I) and no employee, officer, or agent of the Town may participate in the selection, award or administration of a contract supported by a federal award if that person has a real or apparent conflict of interest. The Town shall only award contracts to responsible contractors who show the ability to perform the work successfully under the terms of the contract. The Town shall take necessary steps to assure the minority businesses, women-owned businesses, and labor surplus firms are used whenever possible.

Bidder has read and understands the bid instructions and has provided, on 8 separate attached pages, the information requested by the Town.

BOS _____
BOS _____
BOS _____
Contractor

Town of Farmingdale RFP RESPONSE FORM



Farmingdale Meter Manhole Cover Replacement

Name of Contractor/Company: _____

Name of Contact Person: _____

Telephone Number: _____

Email Address: _____

Mailing Address: _____

Bid Total: _____

Date Signed: _____

Contractor EIN No. _____

Start Date _____

End Date _____

Signature and Title of Contractor or Duly Authorized Officer

BOS

BOS

BOS

Contractor

Town of Farmingdale
Farmingdale Meter Manhole Cover Replacement
Contract Agreement

This agreement is made this ____ day of _____, between the Town of Farmingdale, Maine, herein referred to as "Town", and _____ herein referred to as "Contractor".

The Town and Contractor hereby agree to the following.

1. Scope of Work

The Scope of work for this project is set forth in addendum A to this agreement.

2. Independent Contractor

During the performance of this contract, the Contractor shall act in an independent capacity and not as an officer, employee, or agent of the Town. As an independent contractor, the Contractor has the right and duty to supervise its own employees, agents, and equipment. Additional manpower needed to fulfill the obligations of this contract shall be employed by the Contractor, who shall be solely responsible for compliance with applicable state and federal laws including, but not limited to; OSHA, Worker's Compensation Law, employment security law, anti-discrimination law, minimum wage law, and Section 3-106 of the Town of Farmingdale Code. As an independent contractor, the Contractor is also responsible for the following:

- A. Maintaining its equipment in a safe, operable, and legal manner.
- B. Maintaining the jobsite in a safe condition including all traffic control.
- C. All Traffic control shall follow the latest standards of the M.U.T.C.D. (Manual on Uniform Traffic Control Devices) Part 6.
- D. Prompt payment of all wages, payroll taxes, sub-contractors, material, equipment, fuel, and other expenses, taxes, and fees incurred by Contractor in the performance of this agreement.
- E. Contractor shall provide the Town of Farmingdale with a list of employees working on this project.
- F. In the event of any change of employees subsequent to the initial employee list provided to the Town, the Contractor shall within five (5) business days provide the Town with a revised list of employees.

3. Basic Roles of the Parties

The Contractor has the authority and responsibility to perform all work in conformity with the contract. The Town has the authority and responsibility to assure that the Contractor does so.

BOS BOS BOS Contractor

4. Joint Covenants of Good Faith and Fairness

This contract imposes an obligation of good faith and fair dealing on both parties in the execution, performance, interpretation, and enforcement of the contract. With a positive commitment to honesty and integrity, the Contractor and the Town agree to function within all applicable laws, statutes, regulations, and contract provisions; avoid hindering each other's performance; fulfill all obligations diligently; and cooperate in achievement of the intent of the Contract.

- A. **LIABIIITY INSURANCE:** Agent agrees to maintain throughout the term of this Contract and for a period of two (2) years following expiration of this Contract, comprehensive liability insurance and comprehensive automobile liability insurance in the amount of \$1,000,000.00, for personal injury, death and property damages resulting from its acts or omissions, and those of its subcontractors, in the performance of this Contract. The Town and its officers, employees and agents shall be named as loss payees under these insurance coverages. Execution of the Agreement by the Town is conditioned upon prior submission to the Board of Selectmen of the liability insurance policy and automobile liability insurance in a form satisfactory to the Town.
- B. The certificate of insurance's showing coverages herein required shall be filed with the Town of Farmingdale throughout the term of the contract and for the period of two (2) years following expiration of this contract.
- C. The Agent will provide and maintain Workers Compensation Insurance or Approved Predetermination of Independent Contractor Status to Establish Reasonable Presumption by the General laws of the State of Maine and shall furnish certificates to the Town evidencing such coverage prior to the commencement of work and for the entire pendency of this project.

5. Inspections

The Selectboard may designate a Project Agent, such as but not limited to Road Commissioner, Sewer/Plumbing Inspector has the right to inspect the Contractor's activities, during and after completion, under the contract and who will notify the Contractor of any problems, inadequacies, or non-performance. Materials supplied shall be subject to random testing by the Town. The Contractor shall not commence any work until written notice of at least three days prior has been provided to the Town and direct contact to the Project Agent. The Selectboard, with the advice of the Project Agent, will, on behalf of the Town, determine whether Contractor's performance is satisfactory under this contract.

6. Breach of Contract

Failure of the Contractor to perform according to the terms of this agreement and in the manner specified shall be considered to be a breach of the contract. In the event of such breach, the Town, through its Board of Selectmen or the Project Agent, shall immediately give oral notice to the Contractor. The Contractor will then be required to remedy said breach within a reasonable time and at no additional cost to the town. Reasonable time may vary depending on the nature of the breach as well as road and weather conditions. In the event that the Contractor still does not perform its duties in the time stated, the Town shall have the following options from which the Town may select any or all at its sole discretion:

_____ _____ _____ _____
 BOS BOS BOS Contractor

- A. Terminate the contract. The Board of Selectmen may terminate this agreement by sending the Contractor written notice stating the reason for termination. Contractor will be paid for all work which has been deemed to have been satisfactorily completed at that time. The remainder of the monies under this contract may be used to hire another contractor to complete the agreement.
- B. Substitution. The Town may hire a substitute contractor to perform work under this agreement for any period of time it deems necessary. This substitution will be paid for with funds allocated to this agreement.
- C. Other remedies. In addition to, or in the alternative of, the Town may also seek any other legal or equitable remedy available to enforce this agreement. In the event that the Town brings suit against the Contractor to enforce this agreement, and it prevails on its claim, the Contractor will reimburse the Town for any and all court costs and attorney fees incurred by the Town in the preparation and prosecution of the suit.

7. Payment

The Town shall pay the Contractor the total amount of \$_____ upon satisfactory completion of the project as determined by the Board of Selectmen and the Project Agent. No payment shall be paid to the Contractor until all work has been completed. Payment is contingent upon appropriations and will not exceed the contract amount unless prior written authorization is granted by a majority vote of the Board of Selectmen with the advice of the Project Agent.

8. Indemnification

Contractor agrees to defend, indemnify, and hold harmless the Town and its officials, employees, and agents from any claims for death, personal injury, property damage, or other loss resulting from the acts or omissions of the Contractor, its employees, agents, or sub-contractors in the performance of this agreement. In the event that such a claim is made against the Town, its officials, employees, or agents, Contractor shall pay any legal fees incurred to defend them and pay any amount for which any of them are held liable.

If the Contractor breaches or attempts to breach any of the terms of this Contract or fails to perform any of the obligations under this Contract, the Contractor shall pay to Town all of the Town's costs and expenses, including reasonable legal fees, incurred by the Town in enforcing the terms of this Contract.

9. Amendment, Assignment, Severability, Jurisdiction

This agreement may be amended only by written consent of both the Board of Selectmen, after majority vote at a duly called meeting, and the Contractor. This agreement may not be assigned, in whole or in part. Should any part of this agreement be declared void or unenforceable by a court of competent jurisdiction, the remaining provisions will continue in full force and effect. This agreement is governed by the laws of the State of Maine.

 BOS BOS BOS Contractor

10. Certification of prior representations

Contractor certifies that all information and representations made by Contractor in the Bid Cover Sheet and all attachments thereto are true and correct as of the date of this agreement. Any material misrepresentations made by or on behalf of the Contractor in any of the contract documents may be considered breach of this agreement.

11. Warranty

Contractor agrees to warranty all workmanship and materials for a period of two (2) years after completion of the project.

Notice and contact

The following persons are available to accept notices.

- A. Town: Doug Ebert , Chairman, Board of Selectmen
Office phone: 582-2225 Cell phone: 242-7174 Home phone:

- B. Town: ~~Greg Lambert~~ Plumbing Inspector
Office phone: 582-2225 Cell phone: 592-7073 Home phone:

- C. Contractor _____
Office phone: Cell phone: Home phone:

IN WITNESS WHEREOF, the undersigned parties, duly authorized, have caused the agreement to be executed as of the day and year written above.

Witness: _____

Contractor: _____

Date: _____

Town of Farmingdale
By its Board of Selectmen:

Dae: _____

Doug Ebert

Tyler Tripp

Wayne Kilgore

BOS

BOS

BOS

Contractor

T:\Highway and Sewer\Sewer\Contracts and Proposals\Manhole Adjustment and Installation\September 2020\Farmingdale Meter Manhole Cover

Farmingdale Meter Manhole Cover Replacement

Scope of Work:

Contractor shall provide all labor and materials to remove the top barrel section and cover of the meter manhole and install new precast cone, frame, and cover as shown on the attached plan by Dirigo Engineering. Work includes coordinating schedule with Town; notifying emergency personnel; traffic control; pavement cutting & removal; replacing manhole top, frame, and cover; electrical reconnections, replacing gravel and pavement in accordance with the plan and specifications.

An opening permit application has been submitted to Maine DOT. Binder pavement placed after November 15 and surface pavement placed after October 17 will be considered temporary by MDOT. Temporary pavement shall be replaced by Contractor next Spring at no additional cost to the Owner.

Attachments:

Specifications:

Traffic Control	02030
Earth Work	02101
Bituminous Pavement	02605
Manholes	02850

Plan: "Maine Ave. Meter Manhole Top Replacement Project", by Dirigo Engineering, dated 9/22/20

SECTION 02030
TRAFFIC CONTROL

02030.01 GENERAL

Supply all labor, materials and equipment necessary to control traffic for the safety of workmen, pedestrians, vehicular traffic and the general public.

02030.02 REQUIREMENTS AND COMPLIANCE

Coordinate with local and state authorities and establish traffic control procedures to comply with all authorities having jurisdiction. Provide a traffic control plan to local authorities, the MDOT and the Owner. All traffic control procedures and signing shall comply with MOOT requirements and the Manual of Uniform Traffic Control Devices (MUTCD).

The Contractor shall keep local police and fire officials informed at all times regarding the work location and the effect it will have on traffic patterns. Traffic control procedures shall not interfere with the normal daily traffic flow in the area. Coordinate work sites to facilitate traffic flow and avoid traffic backup and delays.

02030.03 CONTROL METHODS

Provide project signing at the project limits as shown on the attached detail and as required by MOOT. Provide signing and barricades on either end of the actual construction location. Speed limit signs shall be posted with a 25 MPH speed limit. All barricades, signs and signing layouts shall meet MOOT and MUTCD specifications.

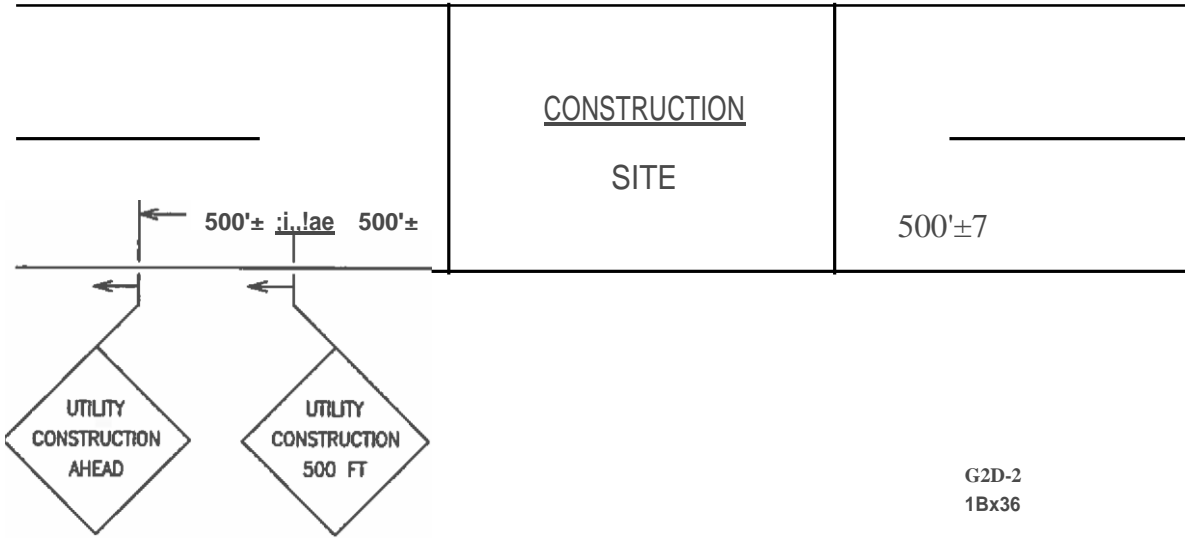
At least one traffic control person shall be located at each of the construction locations or work areas. A minimum of two traffic control personnel shall be provided at each construction location or work area where only one lane of traffic will be maintained. The traffic control personnel shall be in radio communication with each other at all times and shall wear fluorescent vests and direct traffic with standard reflective stop/slow flagger signs.

Work will be allowed only during daylight hours. MOOT and MUTCD approved flashing lights and barricades shall be used for proper safety at night.

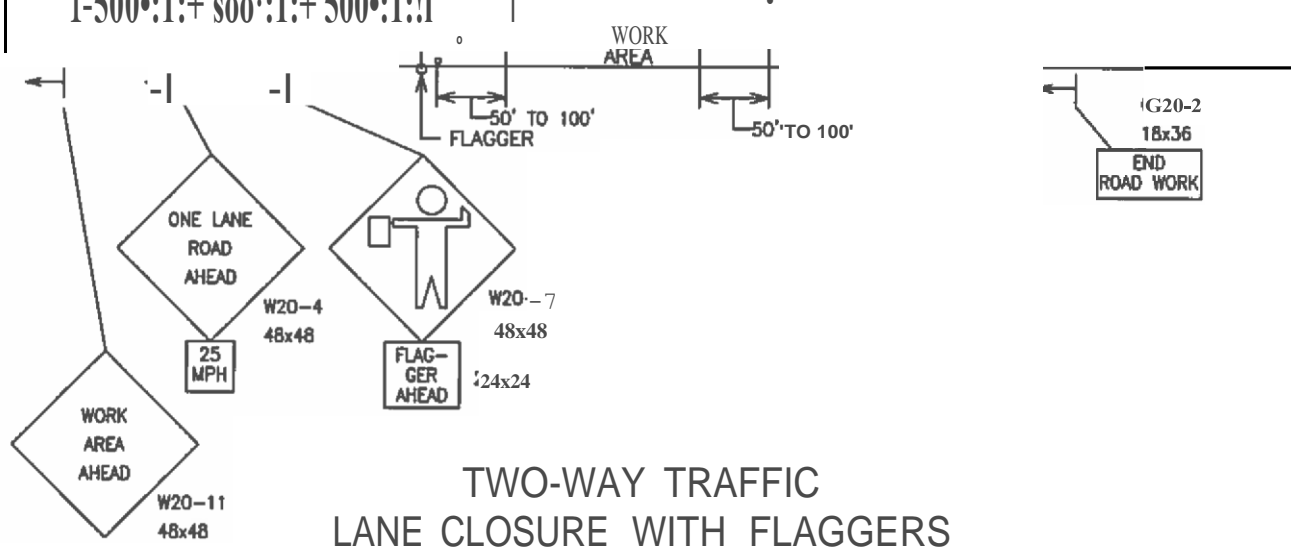
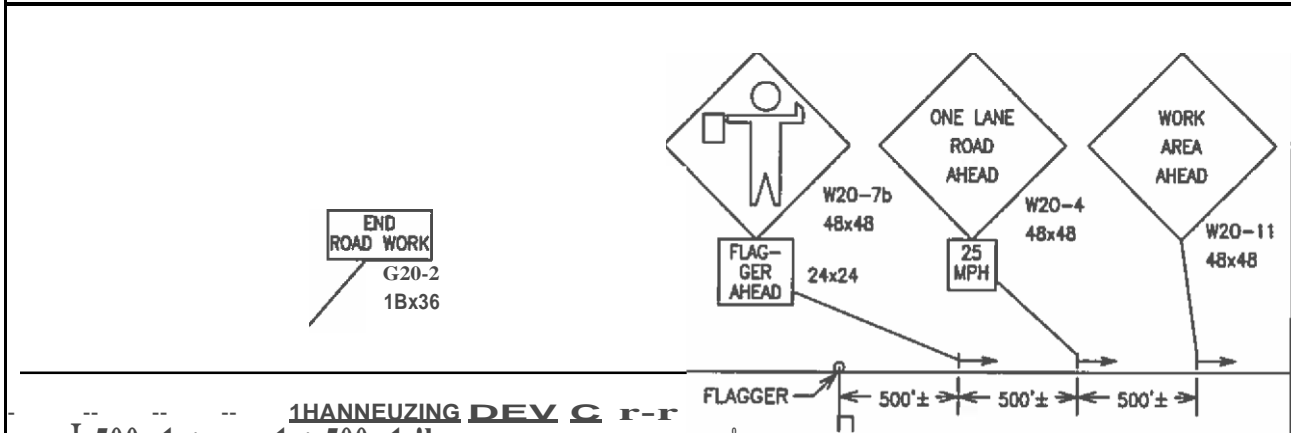
02030.04 STREET CLOSINGS AND DETOURS

No streets shall be closed or detours utilized without specific written permission of the local authorities having jurisdiction. If street closings are allowed, then "street closed" signs shall be placed at all intersections adjacent to the work area to prevent traffic from entering. The contractor shall be responsible for maintaining access to all businesses and residences at all times. One lane shall be maintained for local traffic on all closed streets at all times. At the end of each workday complete street access shall be restored on all streets.

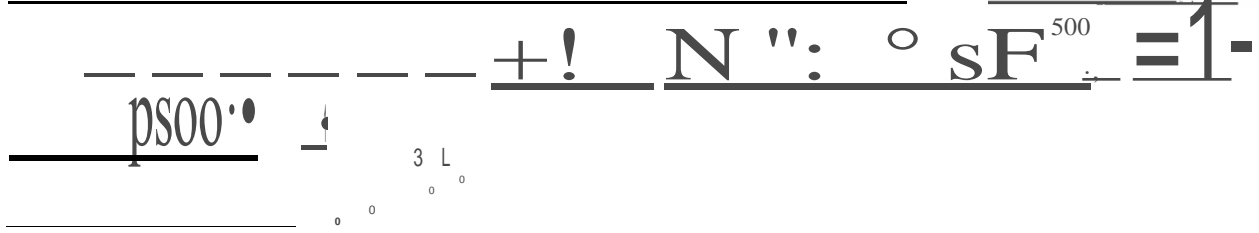
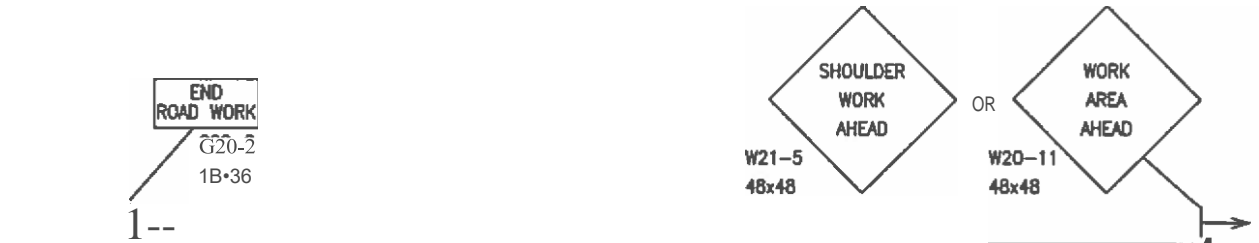
NOTE: SIGNS ARE REQUIRED FOR ALL PROJECT APPROACHES INCLUDING SIDE ROADS.



TYPICAL PROJECT SIGNING



TWO-WAY TRAFFIC
LANE CLOSURE WITH FLAGGERS

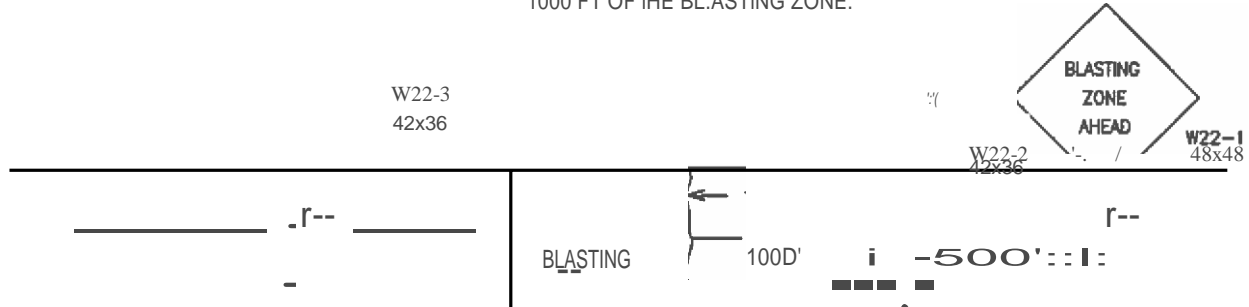


$L = (W \times S \times S) / 60$
 L = TAPER LENGTH IN FEET
 W = WIDTH OF ROADWAY TO BE CLOSED IN FEET
 S = OPERATING SPEED IN MPH

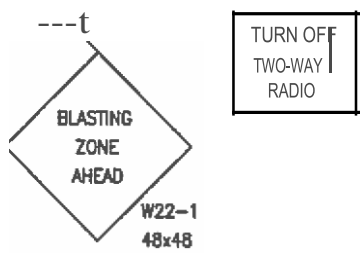
G20-2
 1B1136

ROADSIDE/SHOULDER WORK AREA

NOTE:
 SIMILAR SIGN SEQUENCE SHALL BE
 ERECTED ON ALL SIDE ROADS WITHIN
 1000 FT OF THE BLASTING ZONE.



1000' Mi...



W22-2
 42x36

W22-3
 421136

BLASTING ZONE

SECTION 02101
EARTHWORK

02101.01 GENERAL

Supply all labor, materials and equipment necessary to perform all earth work for the project.

The following subsections are included in this specification:

02101.02	Construction Methods
02101.03	Site Preparation
02101.04	Excavation
02101.05	Borrow and Bedding Material
02101.06	Backfilling
02101.07	Cleanup
02101.08	Erosion Control

02101.02 CONSTRUCTION METHODS

The Contractor shall use responsible and safe construction and excavation practices. The Contractor shall verify the condition of the site and neighboring properties and structures prior to beginning work. The Contractor shall use construction methods and equipment of the appropriate size so as to not produce damage, excessive noise, or vibrations on neighboring properties.

Monitoring of vibrations from site work, excavation, and compaction procedures shall be done by the Contractor. It is recommended that the Contractor complete a pre-work survey of the site and neighboring properties to document their condition and determine what construction methods are appropriate.

02101.03 SITE PREPARATION

A.) General

Supply all labor, materials and equipment necessary to prepare the site for excavation and/or construction. Site Preparation includes cutting and disposal of pavement. Prior to beginning any excavations in paved areas the pavement shall be cut at the limits of the excavation.

B.) Pavement Cutting & Removal

Contractor shall saw cut the pavement at the limits of the excavation area. Contractor shall remove and dispose of pavement at an approved site.

02101.04 EXCAVATION

A.) General

Furnish all labor, equipment and materials necessary to provide all excavation for construction. Excavation shall consist of removal of all earth soil, road gravel, stone, etc.

B.) Excavation Practices

The Contractor is responsible for establishing and practicing safe construction and excavation practices at all times. The Contractor shall keep himself informed of all safety regulations and comply with them at all times.

Information on underground structures and utilities shown on the plans is not guaranteed for accuracy nor completeness; therefore, when excavation approaches such utilities, manual excavation shall be used to locate them. The Contractor shall be held liable for responsible excavating practices throughout the project. This responsibility shall include the undisturbed maintenance of all structures and utilities, above or below grade, which may be affected by the excavation.

C.) Excavation Methods

Excavate around the manhole barrel a minimum of 2 feet out from the barrel all around. Excavated material shall not be placed on pavement. The Contractor shall at all times keep the excavation free of water and saturated soil. Water removed from the excavation shall be disposed of in accordance with all applicable environmental regulations and so as not to interfere with adjacent areas.

The Contractor shall remove and properly dispose of excess excavated material. Removal, transportation and disposal of excess excavated material or unwanted abandoned utilities shall be done at the Contractor's expense.

All excavations shall be closed at the end of each construction day and the surface restored, unless specifically authorized by the Engineer.

D.) Rights-of-Way

The Contractor shall maintain clear passage along all rights-of-way affected by the construction. No permanent rights-of-way shall be closed without prior written approval of the proper civil authorities.

E.) Protection of the Public

Improved streets, roads, driveways and sidewalks shall be kept open over or around all trenches and excavations and the use of these rendered safe for public use as required by OSHA. All open excavations, equipment and materials encroaching on rights-of-way shall be clearly marked by barricades and flashing yellow lanterns from dusk to dawn.

02101.05 BORROW AND BEDDING MATERIAL

A.) General

Furnish all materials, equipment and labor necessary to place and compact all required borrow and bedding. Optimum moisture content shall be as determined by the modified proctor test.

All borrow and bedding shall be free of frozen material, peat, rubbish, and other debris and other material described as unsuitable in Division 2.

B.) Base Gravel

Base gravel shall be screened or crushed gravel of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The maximum stone size is 6". The gradation of the part that passes a 3 inch sieve shall be an even gradation and meet the requirements of the following table.

Sieve Designation	% by Weight Passing
1/4" No.40	25-70
No. 200	0-30
	0-5

C.) Surface Gravel

Surface gravel for paved areas (crushed gravel) shall be gravel that has been screened or crushed. Crushed gravel shall consist of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The gradation shall meet the requirements of the following table.

Sieve Designation	% by Weight Passing
3/4"	90-100
No.4	40- 65
No. 10	10-45
No. 200	0- 7

E.) Placement and Compaction

Gravel shall be placed in 12" maximum lifts. All placement and compaction of borrow and bedding shall comply with Subsection 02101.06 Backfilling.

02101.06 BACKFILLING

A.) General

Furnish all labor, equipment, and material necessary to completely fill all excavations. Backfilling shall be defined as replacement and compaction of soil in excavation for the purposes of protecting underground construction, maintaining grades, or providing stable foundation material for above ground construction.

B.) Material

Backfill material shall be select excavated material placed in layers matching existing layers.

C.) Backfilling Methods

Backfilling shall proceed as soon as possible after underground construction has been completed. Backfill shall be extended to the grade indicated on the plans, compacted and graded.

Fill material shall be placed in layers not to exceed 12" and compacted to a density equal to at least 95% of the optimum density determined by the modified proctor test. Compacting may be done by vibrating compactor or roller.

The Contractor shall take care not to damage or disturb any structure, including his own, during backfilling and compaction. The Contractor shall be held liable for any such damage.

Excavations in paved areas shall be paved according to specifications as soon as possible. Other areas shall be loamed and seeded or otherwise restored to a condition equal to or better than that of adjacent areas as soon as possible.

The Contractor shall not withdraw any sheeting without the approval of the Engineer. All voids created by such removal shall be filled and compacted. Any backfilling which does not conform to these specifications, or which settles differentially, shall be excavated to a depth sufficient to correct the problem and refilled as required. Any pavement or structure which is damaged due to settlement of backfill shall be repaired by the Contractor at his expense.

02101.07 CLEANUP/ SITE RESTORATION

Maintain all work areas and all haul routes in a neat and orderly condition. Cleanup/site restoration is incidental to the appropriate items of the contract.

Remove all debris and surplus material resulting from the work, and maintain all property, both public and private, in a condition acceptable to the party having jurisdiction.

Cleanup/site restoration includes; removal of all debris and surplus material; replacement and repair of all removed or damaged structures, properties and vegetation to their pre-construction condition; restoration of areas to final grade and contour.

02101.08 EROSION CONTROL

Furnish all labor, equipment and materials necessary to prevent erosion and sedimentation from occurring on or adjacent to the construction site and areas disturbed by construction. Erosion and sedimentation control measures shall be in conformance with Maine DOT and Maine DEP Best Management Practices.

The Contractor shall be responsible for providing erosion and sediment control during construction and for establishing permanent measures (surface restoration). Erosion control shall be considered incidental to appropriate items of the Contract.

Erosion and sediment control shall be done concurrently with construction (on a continual basis). When notified by the Owner and/or Engineer that erosion and sediment control is not acceptable, construction shall cease and all efforts shall center on erosion and sediment control.

SECTION 02605
BITUMINOUS PAVEMENT

02605.01 GENERAL

Furnish all labor, materials, and equipment necessary to surface areas designated for paving on the plans and resurface sections of roadway, sidewalks and driveways disturbed by construction. Bituminous paving shall comply with the contract documents and MOOT standard specifications.

Painting and marking of pavement to match pre-construction state is incidental to the paving items. Painting and marking shall conform with :MOOT specifications.

02605.02 MATERIALS

- A. Base Oravel (as per Section 0210 I)
- B. Crushed Gravel (as per Section 02101)
- C. Permanent Pavement

Hot bituminous permanent pavement shall conform to Maine Department of Transportation mixes. Place pavement in layers and compact per MOOT specifications to 92% TMD. Pavement mix design shall have a 1-3 million ESAL.

02605.03 CONSTRUCTION METHODS

Pavement at the limits of excavations shall be cut by use of a powered rotary saw prior to excavation. Cutting by crushing, shearing or breaking is not acceptable. Recut edges prior to paving to insure a uniform and straight edge. Cut edges shall be parallel with the new main and in a continuous straight line to the greatest extent possible. In all cases, edges shall be cut in a manner acceptable to the party having jurisdiction. All edges shall be tacked prior to paving per MDOT standard specifications.

Gravel base courses shall be constructed in accordance with Section 02101.

Install the pavement in layers as specified herein.

Pavement shall be placed per MDOT standard specifications dates and temperatures.

Pavement shall match into existing pavement at all joints and edges with a smooth transition.

Fine grade, install and compact a shim layer of crushed gravel at the edge of all pavement placement not matching into existing pavement for a smooth transition to existing grade. Shim any low or settled areas prior to installing overlays and surface pavement.

Apply tack coat on seam of existing pavement prior to paving.

02605.06 PAVEMENT GUARANTEE

The Contractor shall guarantee all pavement (materials and installation) for a period of one (1) year from the date of Substantial Completion. The guarantee shall include repair, replacement and shimming of pavement due to pavement cracking, breaking or settling whether due to pavement or subsurface backfill conditions.

This guarantee shall **not** limit the Contractor's obligation to warranty work under applicable State of Maine laws.

02605.08 POST PAVEMENT PLACEMENT

Only rubber tired equipment shall be allowed on finish pavement.

SECTION 02850
MANHOLE ADJUSTMENT

02850.01 GENERAL

Contractor shall furnish and install all materials necessary to rehabilitate sewer manhole risers, frames & covers and adjust to finish grade as specified in the Contract Documents.

02850.02 MATERIALS

A.) Manhole Sections

All manhole sections shall be constructed of precast concrete. Manholes shall be designed for H-20 loading. Concrete manholes shall have 4000 psi 28-day strength (for 4' dia. and 5000 psi for any of larger dia.) and shall acquire 75% of their 28-day strength before being shipped to the project. Sections shall have factory cast holes at the proper location and elevation *as* shown on the contract drawings. Manhole sections shall be joined with butyl rubber kent seal no. 2. Minimum thickness of the reinforced barrel sections and base shall be 5 inches. All manholes shall have eccentric cones. The tops of the cones shall be 8 inches wide to accommodate riser rings. Two coats of non-bituminous waterproofing shall be applied to the outside of all manhole sections. Damaged manholes shall be rejected.

8.) Manhole Riser Rings

Manhole riser rings shall be Expanded Polypropylene (EPP) manhole adjustment rings. Risers must meet or exceed H-20 loading at a minimum and be approved for installation by the Maine DOT. Riser rings shall be UV stable and resistant to chemicals and corrosion commonly found in sanitary sewers. Acceptable riser rings include PRO-RING by Cretex Specialty Products of approved equal.

Contractor shall install riser rings in accordance with the manufacturer's latest recommendations and as shown on the plans. Provide and install sealants as recommended by manufacturer. Installed riser ring assembly shall be waterproof.

Adhesive/Sealant

Adhesive/sealant shall be watertight and shall be M-1 Structural Adhesive/sealant or equal meeting ASTM C-920, Type S, Grade NMS, Class 25, Uses NT, T, M, G, A, and O, AND Federal Specification TT-S-00230-C Type II, Class A.

C.) Steps

Manhole steps shall be polypropylene plastic coated steel by M.A. Industries or approved equal. Steps shall be *cast* into the manhole sections and spaced a maximum of 12" on center vertically.

D.) Frames and Covers

Covers shall be 32" diameter and shall be clearly marked "SEWER." Materials shall be Gray Iron (ASTM A48 CL35B). Cover shall be heavy duty with a load rating of up to 40,000 lbs. Castings shall comply and exceed AASHTO H-20/HS-20S specifications and are proof load tested for 40,000 lbs as per AASHTO M-306 specifications. Covers shall be manufactured by General Foundries or equal.

Frames shall have a clear opening of 30". Frame shall be heavy duty with a load rating of up to 40,000 lbs. Castings shall comply and exceed AASHTO H-20/HS-20S specifications and are proof load tested for 40,000 lbs as per AASHTO M-306 specifications. Frames shall be manufactured by General Foundries or equal.

Manhole covers shall have two lift holes and shall be matched to the frames with machined surfaces.

E.) Pipe Sleeves

Pipe and conduit sleeves shall be lock joint flexible sleeves that shall be cast or locked into the manhole section. These sleeves shall be capable of allowing substantial off center alignment. The sleeves shall be attached securely to the outside of the pipe with stainless steel bands to provide a watertight seal.

F.) Dampproofing

Dampproofing shall be ConSeal CS-55 manufactured by Concrete Sealants, Inc., New Carlisle, OH, or approved equal.

02850.03 INSTALLATION

A.) Riser

Carefully remove frame and cover and store in secure location during work. Remove all bricks and mortar down to the concrete cone of the manhole. Clean top of cone and apply appropriate adhesive sealant.

Risers shall be installed in accordance with manufacturer's recommendations. On sloped roads, EPP Adjustment Rings with taper shall be used to allow for slope adjustment.

B.) Frames and Covers

Install frames and covers as shown on the plans. The frames shall be brought to the proper grade with EPP manhole riser rings. Install per manufacturers recommendations.

When manholes are in paved areas, the frame and cover shall be adjusted to grade once the base pavement has been placed. The cost of adjusting the frame and cover to grade, including pavement cutting and replacement, is incidental to the manhole cost. In paved areas the frame and cover shall be set 1/4" below final grade.

C.) Backfill & Compaction

Backfill around manhole riser and frame with base and surface gravel as specified herein. Compact to 95% modified proctor (8" maximum lifts).

D.) Pavement

Contractor shall patch pavement per Section 2605. Pavement thickness shall match existing pavement.

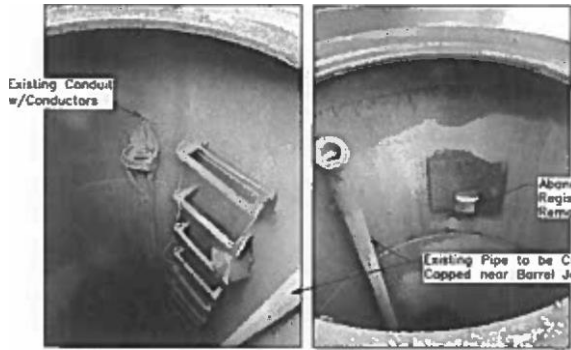
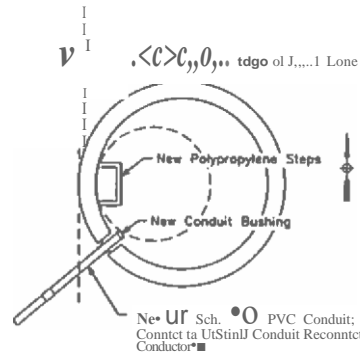


Photo 1

Photo 2



NEW IAANHOLE TOP PLAN

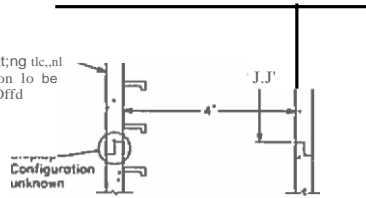
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SITE LOCATION MAP

Existing 4" x 4" Frame & Cover to be Removed

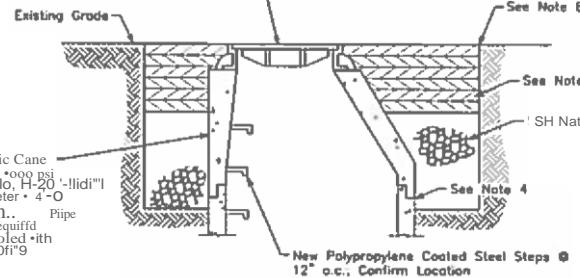
Existing Section to be Removed



EXISTING IAANHOLE TOP SECTION

NOT TO SCALE

Heavy Duty Frame and Cover (20' Clear); Rim Elev. to Match Pavement Grade



NEW IAANHOLE TOP SECTION

NOT TO SCALE

INSTALLATION PROCEDURE:

1. Prepare the manhole area by removing the existing cover and frame. Excavate to the existing manhole depth, approximately 12 feet below ground level. Remove the existing pipe and cap it near the barrel joint.
2. Cut the pavement in the area to be replaced and open the existing manhole.
3. Excavate a 2-foot wide (minimum) area around the depth needed for the new manhole frame, cover, and top. Install a 4-foot diameter concrete barrel on top of the existing manhole.
4. Install the new manhole structure. The new manhole structure shall consist of a 4-foot diameter concrete barrel on top of the existing manhole, a new polypropylene coated steel barrel, and a new polypropylene coated steel cover and frame. The new manhole structure shall be installed on a concrete pad. The concrete pad shall be 12 inches thick and shall be finished with a smooth surface. The concrete pad shall be finished with a smooth surface.

NOTES:

1. Coordinate work with the owner of the manhole.
2. Use the existing manhole cover and frame for the new manhole structure.

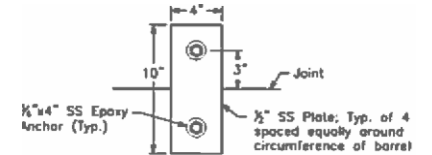
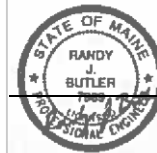


PLATE DETAIL

NOT TO SCALE

7. Backfill with material specified in Section 0210-1 and compact per the specification.
8. After the manhole is installed, the existing pavement shall be removed and replaced with new pavement. The new pavement shall be finished with a smooth surface. The new pavement shall be finished with a smooth surface.
9. The new pavement shall be finished with a smooth surface. The new pavement shall be finished with a smooth surface.

NO.	REVISIONS	DATE
1	VERT. DIMS	N/A
2	DATE	9/22/20
3	DRAWN BY:	RJB
4	CHECKED:	
5	APPROVED:	
6	FIELD BY:	
7	FILE:	MANHOLE MANHOLE
8	PROJECT:	142908



TOWN OF FARMINGDALE
1111 N. COAL OIL OIL
MAINE AVE. METER MANHOLE
TOP REPLACEMENT PROJECT

PLAN & DETAILS

DIRIGO ENGINEERING
2000 DRIVE, FARMINGDALE, MAINE 04947 (207) 653-2401