

# Roadway Pavement Reclamation, Leveling and Resurfacing Improvements on Town-wide Roadways

## Addendum #1

DATED August 13, 2020

### RESPONSE TO QUESTIONS:

1. Please confirm that Item 460.52 - 9.5mm SLC & Item 460.53 - 12.5mm SLC will be polymer modified as per the specs (sheet 4 of 15 Construction Notes # 3)? **Yes, Confirmed. In most cases we anticipate the SLC and SSC to be paved the same day and some SLC will remain as a surface course for later preservation treatment.**
2. Please provide locations of erosion controls to be installed on the project? **See attached reference plan.**
3. The specs for Item 156.4 – Shoulder Crushed Ballast call out for 4” minus crushed stone to be placed on the shoulder in one or two more layers. Is also states the finished surface of the millings shall be compacted with a plate compactor. Is it the intent to place millings on top of the shoulder crushed ballast? **No.** If so, will the contractor be paid for both items (156.3 – shoulder millings & 156.4 – shoulder crushed ballast)? **Intended shoulder treatments are will consist of one or the other - Never on top of each other. Item 156.3 is intended to support the shoulder edges on generally flat roadways. This material is expected to be compacted after shouldering material placement. Item 156.4 is intended for shoulder support along hill roadways where gutter erosion may occur. This material is not expected to be compacted but rather placed. See attached revised spec for Item 156.4.**
4. What is the intended thickness of the shoulder crushed ballast to be placed? If 4” minus crushed stone is being used, will it be 8 or 12 inches thick? **We anticipate 4”-8”.**

### CHANGES TO SPECIFICATIONS:

- Bidders are directed to remove the existing Specification Page 60, “Shoulder Crushed Ballast” and replace with the attached page titled, “Shoulder Crushed Ballast”
- Bidders are instructed to insert the attached page titled, “Town of Spencer Erosion Control Locations Proposed Roadway Improvements”. This page shows the locations of erosion controls and supplements the response to question #2 above
- Bidders are instructed to remove and replace the bid form with the attached bid form.

### ADDITIONS TO WORK:

Final Restoration by Mill and Overlay curb to curb of limited Sections of Route 9 in accordance with DOT Permit 3-2018-0395. See attached permit 3-2018-0395 and plan sheet titled Main Street MassDOT Sta 83+50 to Sta. 62.10. The restoration work shall be coordinated with MassDOT, Town of Spencer Highway Department and CJP Construction, who served as Contractor for the Water Main Looping Project. Special attention is directed to work hours for Permit 3-2018-0395.

**SPECIAL NOTICE TO BIDDERS:**

Please be reminded that this project is partially funded with Mass-DOT Chapter 90 Funds and requires that contractors are qualified through the Mass-DOT.

## Central register - person receiving Bidding Documents

### Town of Spencer

### Pavement Reclamation, Leveling, Resurfacing Improvements Bid

Bid opening 8/19/20 @ 1:30pm

| Organization                    | Address                              |
|---------------------------------|--------------------------------------|
| PJ Keating                      | Lunenburg, MA <b>APPROVED</b>        |
| Source Management               | Seattle <b>NOT APPROVED</b>          |
| Prime Vendor                    | Wilmington, NC <b>NOT APPROVED</b>   |
| Construction Journal            | Stuart, FL <b>NOT APPROVED</b>       |
| Ims                             | San Diego, CA <b>NOT APPROVED</b>    |
| onvia                           | Seattle, WA <b>NOT APPROVED</b>      |
| Works in Progres                | S Burlington, VT <b>NOT APPROVED</b> |
| CopnstructConnect               | Norcross, GA <b>NOT APPROVED</b>     |
| Murray Paving & Reclamation inc | Holliston, MA <b>NOT APPROVED</b>    |
| AF Amorello & Sons              | Worcester, MA <b>APPROVED</b>        |
| ConstructConnect                | Cincinnati, OH <b>NOT APPROVED</b>   |
| Massachusetts Broken Stone Co.  | Berlin, MA <b>APPROVED</b>           |
| A.F. Amorello & Sons, Inc       | Worcester, MA <b>APPROVED</b>        |
| P.J. Albert, Inc.               | Fitchburg, MA <b>APPROVED</b>        |
| Projectdog                      | Newburyport, MA <b>NOT APPROVED</b>  |
| J.H. Lynch & Sons, Inc.         | Millbury, MA <b>APPROVED</b>         |
| Construction Bid Source         | Cary, NC <b>NOT APPROVED</b>         |
| ConstructConnect                | Cincinnati, OH <b>NOT APPROVED</b>   |
| Indus                           | Braintree, MA <b>NOT APPROVED</b>    |



SPENCER

**FROM: ACTING MAINTENANCE ENGINEER**

**TO: C.S. III's, C.S.II's, & HWY REPAIR FOREMAN**

**Section:   C**

Enclosed please find permit #**3-2018-0395** relating to work within your Section. Please familiarize yourself with the contents, provisions, station to station limits, etc., of the permit in order to avoid violations with the permit regulations.

You are directed to inspect the subject project **DAILY** for the duration of the permit to insure the contractor conforms to the permit.

Your cooperation to the above policy is expected and essential for proper execution of the permit regulations.

Thank you.

Permit Office

TO THE GRANTEE:

You may proceed with the work described in the accompanying Permit, which has been issued to you by the Massachusetts Department of Transportation.

Please read carefully the instructions printed on the three additional pages of the Permit and note particularly those conditions, which apply to the work authorized.

Your attention is also called to the time given for the completion of this work. If it should be desired to extend the time for doing the work or alter any of the conditions of the Permit, application for such changes should be made as soon as possible to this office.

Upon completion of the work outlined, please fill out the form given below, detach and mail to this office. (A sketch on the back of the form or on a separate sheet, showing the location of any structures installed should be submitted. This sketch should show the relative positions of the structure by measurements to definite points within the highway location). **IF THIS NOTICE IS NOT RETURNED, THE LIABILITY ASSUMED UNDER THIS PERMIT WILL CONTINUE.**

**NOTICE: at least 48 hours prior to starting work, please contact the District #3 Permit Compliance Engineer David Blodgett at (617) 892-3640**

Very truly yours,

Barry J. Lorion  
District Three Highway Director

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Town of Spencer

**Return to:**  
*District Three Permits Office  
MassDOT / Highway Division  
403 Belmont Street  
Worcester, MA 01604*

TDJ

Dear Sir:

Please be advised that the work authorized under Permit No. **3-2018-0395** issued by the Massachusetts Department of Transportation was completed in accordance with all the requirements of the Department on \_\_\_\_\_.

Signed: \_\_\_\_\_

Town of Spencer  
Spencer Water Department  
3 Old Meadow Road  
Spencer, MA 01562



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, Secretary & CEO  
Jonathan L. Gulliver, Highway Administrator



## SPENCER

Subject to all of the terms, conditions and restrictions printed or written below, permission is hereby granted to the **TOWN of SPENCER WATER DEPARTMENT** to enter upon the State Layout on the road known as **ROUTE 9**, for the purpose of installing approximately 2,000 liner feet of new 12" ductile iron water main, as shown on the plans on file in the MassDOT Highway Division, District Three Permits Office.

**48 HOURS PRIOR TO THE START OF ANY WORK BEING CONDUCTED  
WITHIN THE STATE HIGHWAY LAYOUT CONTACT THE FOLLOWING:**

**Dave Blodgett – District Permit Compliance Engineer @ 617-892-3640**

Provide Permit #, date the work is to be started, the contractor who will be performing the work, name, address, and telephone number of person to be contact in case of emergency.

**SPECIAL CONDITIONS:**

- *Upon completion of this Trench work, and a Trench settling period, the Trenches shall be re-paved as follows\* by milling to a depth of 2" from Edge of Pavement and resurfaced using 2" of modified top course (Class 1 Bituminous Concrete Pavement – Type I-1) and re-stripped with Thermoplastic Pavement Markings as required.*
  - \*Location 1 - curb to curb - Approx. 62+50 to 63+50
  - \*Location 2 - curb to curb - Approx. 65+50 to 67+00
  - \*Location 3 - curb to curb - Approx. 75+00 to 79+50
  - \*The remaining limits of the trench after settling period will need final paving from 1 foot inside the trench to nearest curb.
  
- *Sidewalks shall be repaired in kind to match preexisting conditions as required.*

**WORK HOURS:**

No equipment, trucks, etc. shall occupy any part of the traveled way except between the **9:00 PM and 5:00 AM from Sunday through Thursday**. No work shall be allowed on holidays or at any times between and including the day before or the day after a long weekend which involves a holiday without the permission of the District Maintenance Engineer.

In no case will operations commence prior to the specified hours of this Permit. This includes traffic set-ups that restrict the flow of traffic upstream of and through the construction zone.

All operations shall be conducted so as not to interfere with, interrupt, or endanger the general public or the traffic flow.

At any time during construction operations when a traffic delay of over twelve (12) minutes occurs and the situation is worsening, the Grantee or the Department shall begin to suspend operations. Continuously increasing delays of over twelve (12) minutes shall not be permitted. When it appears that delays are developing, one or more of the parties mentioned above shall drive the queue to determine the actual time of delay. Monitoring of traffic delays will be a continuous process until the job activity is complete and off the traveled way or until the determination is made to suspend operations.

**TRENCH:**

*The Grantee(s) must adhere to 520 CMR 14.00; EXCAVATION AND TRENCH SAFETY, AS promulgated by the Department of Public Safety in conjunction with the Division of Occupational Safety pursuant to authority granted by M.G.L. c. 82A § 1. The attached Trench Permit Rider shall become integral part of the terms and conditions of this permit.*

**Between November 1<sup>st</sup> and April 1<sup>st</sup>, no trench shall be covered with a steel plate without the permission of the District Maintenance Engineer. Should the Grantee be unable to obtain permission to use a steel plate, then these instructions shall be followed: The trench shall be backfilled with gravel compacted as per MHD standards and the top 3 inches of the trench shall consist of bituminous concrete Type I-1 temporary patch compacted in two (2) one and one-half inch (1 ½") lifts. The entire backfill shall be removed after a minimum of 90 days and replaced with \*Control Density Fill (CDF) to within 7 inches of the finished grade and completed as stated above.**

Attention is called to the clauses in this permit relating to the laying of pipes, conduit, etc.

All excavated material, including bituminous concrete, cement concrete, stone, gravel, etc., shall be removed from the State Highway Layout. No stockpiling will be allowed within the State Highway Layout.

In the event of an overlay the placement of the traffic lines shall be the responsibility of the Grantee. The District Traffic Maintenance Engineer shall be notified prior to the placement of new pavement markings at Tel. No. 1-508-929-3800.

The Grantee shall assume full responsibility for the structural integrity of any trench described in this Permit. This responsibility shall remain in place for a period of three years after the completion of work which time starts with the Department receiving the Completion of Work Form.

**GENERAL:**

All work shall be performed in accordance with the 1988 Massachusetts Highway Department Standard Specifications for Highways and Bridges (English Edition); the Supplemental Specifications (English Edition), dated February 25, 2010; the 2010 Construction Standards; the current Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) with latest revisions; the 1990 Standard Drawings for Traffic Signals and Highway Lighting; and the American Standard for Nursery Stock Current Edition (ANSI Z-60.1-2004).



**UNIFORMED POLICE OFFICERS SHALL BE IN ATTENDANCE TO DIRECT TRAFFIC.**

All street approaches and driveways where disturbed shall be replaced conforming to original alignment, grade and materials.

The shoulder area shall be restored to a condition as good as existed prior to the work.

All grassed areas where disturbed shall be restored to as good condition as found by loaming and seeding.

Accommodation shall be made for the safety of pedestrian traffic during the work period.

Care shall be exercised to protect existing underground structures.

The bounds marked MHB shall not be disturbed or buried.

No trench shall be left open overnight. If it becomes necessary for said trench to be left overnight, then it shall be covered with steel plates.

No metal drums are allowed within the State Highway Layout.

All required signs and traffic warning devices, **including the use of arrowboard(s)**, shall be furnished by the Grantee. All signs and devices shall be in accordance with the current edition of the FHWA Manual on Uniform Traffic Control Devices. The number and location of all signs and devices shall be as deemed necessary by the Engineer for the safe and efficient performance of the work and the safety of the traveling public.

All warning devices shall be subject to removal, replacement and/or repositioning by the Grantee as often as deemed necessary by the Engineer.

Cones or non-reflectORIZED warning devices shall not be left in operational position on the highway when the daytime operations have closed. If it becomes necessary for the MassDOT Highway Division to remove any warning devices or appurtenances from the project due to negligence by the Grantee, all costs for this work will be charged to the Grantee.

Only a minimal amount of men and equipment shall occupy the State Highway location.

All vehicles excepting passenger cars which are assigned to the permitted project and which operate on the site at speeds of 25 mph or less shall have an official SLOW MOVING VEHICLE emblem displayed.

Only equipment to be used in the actual construction work shall be allowed within the State Highway location.

**All personnel who are working in the State Highway Layout shall wear safety vests and hardhats.**

The Grantee shall exercise this permit subject to all the rules and regulations made from time to time by the said MassDOT Highway Division and the Department of Public Utilities and nothing in the permit shall be construed as authorizing any installation or maintenance thereof except in strict conformity with all Federal, State and Municipal laws, ordinances and regulations.

The Grantee shall indemnify and save harmless the Commonwealth and MassDOT Highway Division against all suits, claims or liability of every name and nature arising at any time out of or in consequence of the Acts of the Grantee in the performance of the work covered by this permit and/or failure to comply with the terms and conditions of this permit whether by itself or its employees or subcontractors.

A copy of this permit will be made available at the project site at all times during the progress of work for inspection by Department Personnel. Should the Grantee or contractor not have a copy at the site, the work will be stopped until such permit is made available.

ALL OF SAID WORK SHALL BE DONE AS DIRECTED AND TO THE SATISFACTION OF THE ENGINEER FROM THIS DEPARTMENT.

(SEE ATTACHED SHEETS FOR ADDITIONAL CONDITIONS)

No work shall be done under this permit until the Grantee shall have communicated with and received instructions from the District Highway Director of the MassDOT Highway Division listed below.

This permit shall be void unless the work herein contemplated shall have been completed before **November 14th, 2019**.

Dated at Worcester this **14th** day of **November 2018**.

MassDOT Highway Division

By: *James R. Rath* <sup>F02018</sup>  
**Barry J. Lorion**  
**District Highway Director**

**Conditions Relating Particularly to Permits for the Laying of Pipes, Conduits, etc.**

After any pipes, conduits, drains or other underground structures are laid, or any excavation is made in the roadway, the trenches or openings shall be properly back-filled with suitable material, the back-filling shall be thoroughly tamped, and the surface of the road over said structure shall be left even with the adjoining ground. If the work is done in cold weather no frozen material shall be used for back-filling.

Wherever the hardened surface of the roadway, gutters, or any part of the surface of the highway is disturbed it shall be replaced in as good condition as before it was disturbed, and if new materials are required they shall correspond with those already in place on the road.

Where service pipes are to cross the highway the connections shall be made without disturbing the hardened surface of the roadway, by driving the pipes under the roadway, or the service pipes shall be carried under and across the road in a larger pipe, unless otherwise ordered by the Engineer.

The Grantee shall maintain the surface of the roadway over said structures as long as the Department may deem necessary, until all signs of the trenches shall have been eliminated.

**Conditions Relating Particularly to Permits for the Erection of Poles, Wires, and Overhead Structures, and the Cutting and Trimming of Trees**

In the erection of pole lines, unless otherwise herein provided, no trees located within the limits of the State Highway shall be cut or trimmed. No guy wires shall be attached to trees without a special permit from the Department, and in no event shall they be so attached as to girdle the trees or in any way interfere with their growth. The wires shall be so protected at all times and places that they shall not interfere with or injure the trees either inside or outside the location of the highway.

Where the cutting or trimming of trees is authorized by this permit, only such cutting and trimming shall be done as may be designated by the Engineer.

In the construction or reconstruction of pole lines no guy wires shall be erected nearer to the surface of the ground than six feet; provided, however, that the owners of such lines may maintain such guy wires at a lower elevation than six feet from the ground until such time as the Department shall notify them to remove said wires or to raise them to the elevation first stated.

In order to protect the trees through which any wires may pass, said wires shall be insulated and such other tree guards used as may be directed by the Engineer.

Where high tension wires are erected under this permit, they shall be so located that, under conditions of maximum severity as regards a coating of ice or snow, there shall be a space of at least eight feet between such high tension wires and other wires.

The Grantee shall, within sixty days from the date of completion of the work, file in the office of the Department a plan showing the location of each pole erected in accordance with the permit, said plan to be of such form as the Department may direct.

**General and Additional Conditions**

Whenever the word "Department" is used herein it shall mean the MassDOT Highway Division.

Whenever the word "Engineer" is used it shall mean the District Highway Director or other authorized representative of the Department.

Wherever the word "Grantee" is used herein it shall mean the person or persons, corporation or municipality to whom this permit is granted or their legal representatives.



## Time is of the Essence for this Contract

The contractor hereby offers to provide all necessary machinery, tools, and apparatus and to do all the work and furnish all the materials called for by said specifications in the manner and time herein prescribed and according to the requirements of the Town, including all the incidental work.

| ITEM NO. | QUANTITY | ITEM WITH UNIT BID PRICES WRITTEN IN WORD | UNIT PRICE DOLLAR CTS. | TOTAL AMOUNT DOLLAR CTS. |
|----------|----------|---|------------------------|--------------------------|
| 120.1    | 500      | UNCLASSIFIED EXCAVATION                   |                        |                          |
|          |          | CUBIC YARD                                |                        |                          |
| 141.1    | 150      | TEST PIT FOR EXPLORATORY EXCAVATION       |                        |                          |
|          |          | CUBIC YARD                                |                        |                          |
| 151.     | 600      | GRAVEL BORROW                             |                        |                          |
|          |          | CUBIC YARD                                |                        |                          |
| 156.3.   | 90,000   | SHOULDER MILLINGS                         |                        |                          |
|          |          | LINEAR FOOT                               |                        |                          |
| 156.4    | 28,500   | SHOULDER CRUSHED BALLAST                  |                        |                          |
|          |          | LINEAR FOOT                               |                        |                          |
| 170.     | 3,500    | FINE GRADING AND COMPACTING               |                        |                          |
|          |          | SQUARE YARD                               |                        |                          |
| 220.     | 55       | DRAINAGE STRUCTURE ADJUSTED               |                        |                          |
|          |          | EACH                                      |                        |                          |
| 220.2    | 12       | DRAINAGE STRUCTURE REBUILT                |                        |                          |
|          |          | VERTICAL FOOT                             |                        |                          |
| 220.6    | 2        | SANITARY STRUCTURE REBUILT                |                        |                          |
|          |          | VERTICAL FOOT                             |                        |                          |



|         |        |  |  |  |
|---------|--------|--|--|--|
| 220.7   | 1      | SANITARY STRUCTURE ADJUSTED<br>EACH                                  |  |  |
| 222.3   | 13     | FRAME AND GRATE (OR COVER) - MUNICIPAL<br>STANDARD<br>EACH           |  |  |
| 223.1   | 13     | FRAME AND GRATE (OR COVER) - REMOVED AND<br>STACKED<br>EACH          |  |  |
| 280     | 250    | HOT MIX ASPHALT WATERWAY<br>SQUARE YARD                              |  |  |
| 403.    | 79,800 | RECLAIMED PAVEMENT FOR BASE COURSE<br>AND/OR SUB BASE<br>SQUARE YARD |  |  |
| 415.    | 4,400  | PAVEMENT MILLING<br>SQUARE YARD                                      |  |  |
| 440.    | 84,800 | CALCIUM CHLORIDE FOR DUST CONTROL<br>POUND                           |  |  |
| 451.    | 150    | HOT MIX ASPHALT FOR PATCHING<br>TON                                  |  |  |
| 452.    | 9,090  | ASPHALT EMULSION FOR TACK COAT<br>GALLON                             |  |  |
| 453.    | 50,600 | HOT POURED RUBBERIZED ASPHALT SEALER<br>FOOT                         |  |  |
| 460.221 | 1,070  | SUPERPAVE SURFACE COURSE – 9.5 - POLYMER<br>(SSC – 9.5 – P)<br>TON   |  |  |
| 460.231 | 10,470 | SUPERPAVE SURFACE COURSE – 12.5 - POLYMER<br>(SSC – 12.5 – P)<br>TON |  |  |
| 460.32  | 13,110 | SUPERPAVE INTERMEDIATE COURSE – 19.0 (SIC<br>– 19.0)<br>TON          |  |  |
| 460.52  | 760    | SUPERPAVE LEVELING COURSE – 9.5 (SLC – 9.5)<br>TON                   |  |  |
| 460.53  | 1,280  | SUPERPAVE LEVELING COURSE – 12.5 (SLC –<br>12.5)<br>TON              |  |  |



|        |         |   |         |          |
|--------|---------|---|---------|----------|
| 482    | 4,000   | HOT APPLIED CRACK FILLER W/POLYSTER FIBERS                          |         |          |
|        |         | GALLON  |         |          |
| 482.3  | 3,000   | SAWING ASPHALT PAVEMENT   |         |          |
| 570.3  | 1,080   | HOT MIX CURB – TYPE 3   |         |          |
|        |         | LINEAR FOOT   |         |          |
| 697.12 | 45      | FURNISH AND INSTALL SEDIMENT COLLECTION SACK IN DRAINAGE STRUCTURES |         |          |
|        |         | EACH  |         |          |
| 702.   | 80      | HOT MIX ASPHALT WALK SURFACE  |         |          |
|        |         | TON   |         |          |
| 702.1  | 600     | HOT MIX ASPHALT DRIVEWAY  |         |          |
|        |         | TON   |         |          |
| 751.   | 200     | LOAM BORROW   |         |          |
|        |         | CUBIC YARD  |         |          |
| 765.   | 8,000   | SEEDING   |         |          |
|        |         | SQUARE YARD   |         |          |
| 767.12 | 15,000  | COMPOST FILTER TUBES  |         |          |
|        |         | LINEAR FOOT   |         |          |
| 851.   | 1       | SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS                         |         |          |
|        |         | LUMP SUM  |         |          |
| 866.   | 800     | 12" CROSSWALKS AND STOP LINES REFL. WHITE (THERMOPLASTIC)           |         |          |
|        |         | FOOT  |         |          |
| 867.   | 115,000 | 4" CENTERLINE LINES REFL. YELLOW (THERMOPLASTIC)                    |         |          |
|        |         | FOOT  |         |          |
| 999.1  | 1,800   | POLICE DETAIL   | \$50.00 | \$90,000 |
|        |         | HOUR  |         |          |
| SWD-1  | 700     | 2" MASSDOT Mill & Overlay RT9, Main Street                          |         |          |
|        |         | LINEAR FOOT   |         |          |



Town of Spencer

Utilities and Facilities Office

|  |  |  |  |                 |
|--|--|--|--|-----------------|
|  |  | <b>MAXIMUM CONTRACTOR BONUS IF REACHED</b> |  | <b>\$60,000</b> |
|  |  | <b>ESTIMATED TOTAL CONTRACT PRICE</b>      |  |                 |

**TOTAL BID PRICE:** \$ \_\_\_\_\_

All Bidders must be prequalified with Massachusetts Department of Transportation Highway Division. All Bidders must comply with the provisions under MGL, c. 90, Section 34, 720 CMR 5.00 which are subject to DPW's contractor prequalification requirements. Quantity amounts are for comparing and evaluating bid prices only. It is specifically understood that the Town does not agree to purchase any specific quantity, and purchases will be made for actual requirements of the Town, only. The Town may increase or decrease the quantity of any item specified without change in price per unit of quantity as stated in the Contractor's Bid Response. Bids must remain firm throughout the contract term, unless otherwise specified. No increase in the unit price bid, once accepted and awarded will be permitted.

**ADDENDAS**

This bid includes addenda(s) numbered \_\_\_\_\_ (List all Addendas).

**CONTRACTOR INFORMATION AND CERTIFICATION OF BID**

The undersigned certifies under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

COMPANY NAME: \_\_\_\_\_

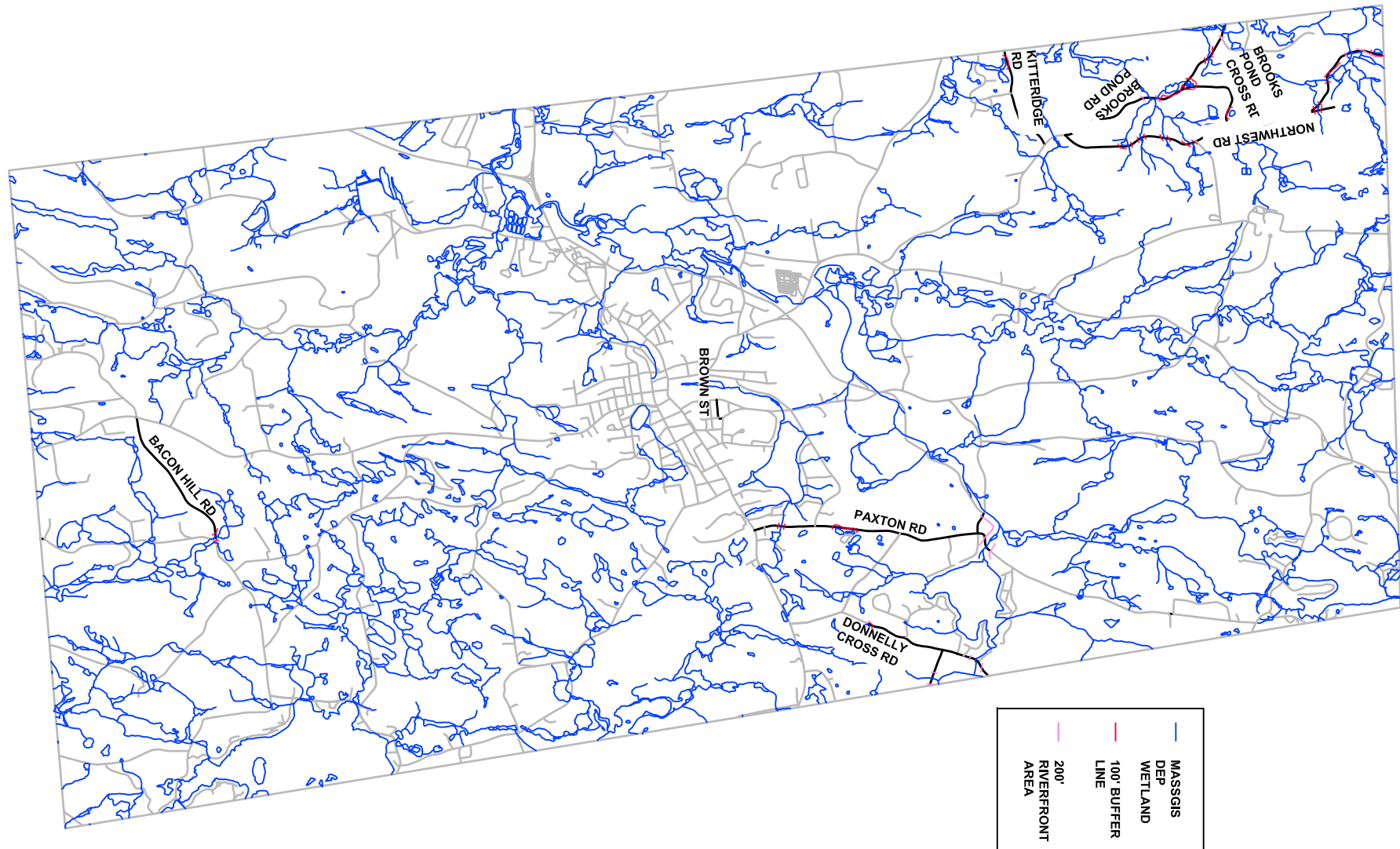
ADDRESS: \_\_\_\_\_

AUTHORIZED SIGNATURE \_\_\_\_\_

NAME AND TITLE (print): \_\_\_\_\_

PHONE: \_\_\_\_\_

DATE: \_\_\_\_\_



**NOTE**

ALL EROSION CONTROLS LOCATIONS ARE TO BE CONFIRMED WITH THE TOWN PRIOR TO INSTALLATION BY THE CONTRACTOR.



TOWN OF SPENCER  
 EROSION CONTROL LOCATIONS  
 PROPOSED ROADWAY IMPROVEMENTS

August 7, 2020

SCALE 1"=5000'





**ITEM 156.4.**

**SHOULDER CRUSHED BALLAST**

**LINEAR FOOT**

The work under this item shall conform to the relevant provisions of Section 150 of the Standard Specifications and the following:

The Contractor shall furnish, spread and 4" minus crushed stone for the construction of shoulder and support of new pavement edge(s) along reclaimed/paved roadways and as required by the Engineer. This material will be placed along hilly roadways where shoulder erosion is likely to occur.

This work shall be performed in accordance with the details shown on the Contract Drawings, as specified in these Specifications and as directed by the Engineer.

**Materials:**

Stone ballast material shall meet the MassDOT Section M2.01.0 Crushed Stone requirements and consist of inert material that is hard, durable stone and coarse sand, free from loam and clay, and deleterious materials.

**Construction Methods**

The material shall be placed in one or two more layers of approximately equal thickness of exposed vertical pavement edge to an 18 inch minimum wide shoulder.

Gravel base course material shall be placed and compacted in conformance with the relevant provisions and requirements specified under Subsection 401.60 of the "Standard Specifications" as applicable, except as noted on the Contract Drawings and elsewhere within these Specifications.

The finished surface of stone ballast shall be dressed smooth, uniform and true to the required grade and cross section.

**Measurement:**

Quantities of shoulders shall be measured and determined by the Engineer in the field.

**Basis of Payment:**

The quantity to be paid for under Item 156.4., Shoulder Crushed Ballast, is the actual number of linear feet of shoulder along one side of roadway constructed; all in accordance with the details shown on the Contract Drawings, as specified in these Specifications and as directed by the Engineer.

The price stated is full compensation for furnishing, hauling, grading, shaping, and compacting crushed stone for the construction of shoulders for all other work and expenses incidental thereto.