

ADDENDUM NO. 2

FY21 Stormwater Improvements
Project No. 21DPW12
Ayer DPW

This addendum amends and/or supplements the bid documents as indicated below. Only these items alter the Bid Documents; any verbal discussions or responses are hereby declared null and void.

Sealed Bids for the General Contract will be received from General Contractors for the FY21 Stormwater Improvements at the Ayer DPW Office, 25 Brook Street, Ayer, MA 01432 until 2:00 PM on Wednesday, April 28, 2021 and at that time and place bids will be publicly opened and read aloud.

Bidder shall acknowledge receipt of this addendum on the Form for General Bid.

SPECIFICATIONS

1. **REPLACE** Section 00300 – Form for General Bid in its entirety with the attached revised version.
2. **REPLACE** Section 01150 – Measurement and Payment in its entirety with the attached revised version.

DRAWINGS

1. **REPLACE** FY21 STORMWATER IMPROVEMENTS OVERVIEW with the attached revised version. Location 8 has been changed from Highland Ave to Samantha Lane.
2. **REPLACE** LOCATION 2 – DOG PARK ROW BIOSWALE AND SIDEWALK CONNECTION with the attached revised version. The plan has been modified to include a fence.
3. **REMOVE** LOCATION 8 HIGHLAND AVE TREATMENT UNIT in its entirety. The work at this location has been removed from this project.
4. **INSERT** LOCATION 8 SAMANTHA LANE TREATMENT UNIT after LOCATION 7 BIORETENTION CELL 132 OAK RIDGE DRIVE. The Plan shows the installation of the stormwater treatment unit.

SECTION 00300

FORM FOR GENERAL BID

Ayer Department of Public Works
Ayer, Massachusetts
FY21 Stormwater Improvements

The following Bid is submitted to: Town of Ayer Department of Public Works
25 Brook Street
Ayer, MA 01432

By (Contractor Name): _____
(Address for Giving Notice): _____

A. The Undersigned proposes to furnish all labor and materials required for the FY21 Stormwater Improvements in Ayer, Massachusetts, in accordance with the accompanying plans and specifications prepared by The Ayer DPW for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. This bid includes addenda

Number _____
Dated _____

C. BASE BID -The proposed contract price for the **Base Bid including Bid Items 1 through 8** complete is

_____ dollars (\$_____).
(in Words) (in Figures)

D. The subdivision of the proposed contract price is as follows:

Bid Form ADDENDA 2
 FY21 Stormwater Improvements Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	FY21 Stormwater Improvements	
		Estimated Quantity, Unit	Total in Figures
1 LOCATION 1 - PLEASANT STREET ROW BIOSWALE			
1a.	Right-of-Way Bioswale, per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
2 LOCATION 2 - DOG PARK ROW BIOSWALE AND SIDEWALK CONNECTION			
2a.	Right-of-Way Bioswale, per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
2b.	HMA Walk, per square yard		
		40 SY	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
2c.	Gravel subbase, per cubic yard		
		13 CY	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
2d.	ADA WheelChair Ramp, per square yard		
		8 SY	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
2e.	Erosion Controls, per LF		

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	FY21 Stormwater Improvements	
		Estimated Quantity, Unit	Total in Figures
		100 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
2f.	Split Rail and Post Fence, per LF		
		20 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
3	LOCATION 3 - CALVIN STREET SILT PRISON		
3a.	Install Silt Prison 160DP, per each		
		2 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
4	LOCATION 4 - CENTRAL AVENUE SILT PRISON		
4a.	Install Silt Prison 160D, per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
5	LOCATION 5 - 112 WASHINGTON STREET DOUBLE CB FRAME AND GRATE		
5a.	Replace single frame and grate with double catch basin frame and grate, per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
6	LOCATION 6 - NASHUA STREET CULVERT REPLACEMENT		

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	FY21 Stormwater Improvements	
		Estimated Quantity, Unit	Total in Figures
6a.	Arch Culvert Pipe, per linear foot		
		50 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
6b.	8-inch HDPE drain pipe, per linear foot		
		10 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
6c.	Precast concrete catch basin, per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
6d.	HMA Trench, per square yard		
		15 SY	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		

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FY21 Stormwater Improvements Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	FY21 Stormwater Improvements	
		Estimated Quantity, Unit	Total in Figures
6e.	Erosion Controls, per LF		
		75 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
7 LOCATION 7 - BIORETENTION CELL 132 OAK RIDGE DRIVE			
7a.	Bioretention Cell, per Lump Sum		
		1 LS	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
7b.	Cape cod berm, per linear foot		
	Cape cod berm, per linear foot	20 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		
7c.	Square Drain Cover, per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
	<i>Unit Price in Figures</i>		

Bid Form ADDENDA 2
FY21 Stormwater Improvements Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	FY21 Stormwater Improvements	
		Estimated Quantity, Unit	Total in Figures
7d.	12-inch HDPE drain pipe, per linear foot		
		20 LF	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
<i>Unit Price in Figures</i>			
8	LOCATION 8 - SAMANTHA LANE TREATMENT UNIT		
8a.	Install Hydroworks Stormceptor, Frame and Grate (DPW Furnished), per each		
		1 EA	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		
<i>Unit Price in Figures</i>			

- E. The undersigned agrees that, if selected as general contractor, he/she will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price.

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that all, the Contract Documents as prepared by The Ayer Department of Public Works and dated April 2018 have been carefully examined; that the undersigned is fully informed in regard to all conditions pertaining to the Work and the place where it is to be done, and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part.

The time period for holding bids, where Federal approval is not required is 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids.

The Bid Security accompanying this Bid shall be in the amount of 5 percent of the Bid. The Bid Security shall be sealed in a separate envelope from the Bid and then attached to the envelope containing the Bid.

If a Notice of Award accompanied by at least six unsigned copies of the Agreement and all other applicable Contract Documents is delivered to the undersigned within thirty days, excluding Saturdays, Sundays, and legal holidays after the actual date of the opening of the General Bids, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the date of receipt of such notification, execute and return all copies of the Agreement and all other applicable Contract Documents to OWNER. The premiums for all Bonds required shall be paid by CONTRACTOR and shall be included in the Contract Price. The undersigned Bidder further agrees that the Bid Security accompanying this Bid shall become the property of OWNER if the Bidder fails to execute the Agreement as stated above.

The undersigned hereby agrees that the Contract Time shall commence twenty days following the Effective Date of the Agreement and that the Work will be substantially complete and completed and ready for final payment in accordance with paragraph the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement. Work will be substantially complete within **100** calendar days after the date when the Contract Time commences to run provided in the General Conditions and completed and ready for final payment within **130** calendar days after the date when the Contract Time commences to run. The undersigned further understands that delays in completion of the Work will cause the OWNER to suffer damages and incur substantial costs, and will expose the OWNER to other substantial liabilities, and that if the selected Contractor shall neglect, fail or refuse to achieve

Substantial Completion or final completion of the Work within the times specified above, as such times may be extended pursuant to the provisions of the Contract Documents, the OWNER will hold the selected Contractor strictly liable for all such damages and any other damages, costs, expenses or liabilities sustained or incurred by the OWNER arising out of such delays, as further provided in the Agreement, or for any delay in achieving any other milestones set forth in the Contract Documents in accordance with the terms of the Agreement. The undersigned accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time in the amount of \$500 per day after substantial completion time limits and \$500 per day after final completion time limits.

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials and complete the work in its entirety in the manner and under the conditions required.

In comparison of Bids, alternates will be applied in the same order of priority as listed in the Bid Form. After determination of the Successful Bidder based on the responsiveness, responsibility, and other Factors set forth in the Instructions, the award may be made to said Successful Bidder on its Base Bid and any combination of its additive alternate Bids for which Owner determines funds will be available at the time of award.

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the General Conditions of the Contract and will be paid for in accordance with Article 11 of the General Conditions of the Contract.

The bidding and award of this Contract will be in accordance with M.G.L. Chapter 30, Section 39M.

The undersigned must furnish a 100 percent Performance Bond and a 100 percent Payment Bond with a surety company acceptable to OWNER.

Where indicated for amounts to be shown in both words and figures, in case of discrepancy, the amount shown in words shall govern.

The following documents are attached to and made a condition of this Bid:

- (a) This Bid Form in its Entirety.
- (b) Required Bid Security.
- (c) Required Experience Statement (Section 00405) with supporting data.

CERTIFICATIONS

Pursuant to M.G.L. Ch. 62C, sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under law.

The undersigned hereby certifies that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that he/she will comply fully with all laws and regulations.

The undersigned further certifies under the 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 subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-nine F of Chapter Twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Social Security Number or
Federal Identification Number

Individual or Corporate Name
(Print or Type)

By: _____
(Signature)

RESPECTFULLY SUBMITTED on _____, 20__

An Individual

By (Individual's Name) _____

(SEAL)

doing business as _____

Business address: _____

Phone No.: _____

A Partnership

By (Firm Name) _____

(SEAL)

(General Partner) _____

Business address: _____

Phone No.: _____

A Corporation

By (Corporation Name) _____ (Corporate Seal)

(State of Incorporation) _____

By (Name and Title of Person Authorized to Sign) _____

Attest (Secretary) _____

Business address: _____

Phone No.: _____

A Joint Venture

By (Name) _____ (SEAL)

(Address) _____

Phone No.: _____

By (Name) _____ (SEAL)

(Address) _____

Phone No.: _____

By (Name) _____ (SEAL)

(Address) _____

Phone No.: _____

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above).

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 DESCRIPTION

- A. For lump sum items, payment shall be made to the Contractor in accordance with an accepted Progress Schedule and Schedule of Values on the basis of actual work completed.
- B. For unit-price items, payment shall be based on the actual amount of work accepted and for the actual amount of materials in place, as shown by the final measurements.
 - 1. All units of measurement shall be standard United States convention as applied to the specific items of work by tradition and as interpreted by the Engineer.
 - 2. At the end of each day's work, the Contractor's Superintendent or other authorized representative of the Contractor shall meet with the Resident Project Representative and determine the quantities of unit price work accomplished and/or completed during the work day.
 - 3. The Resident Project Representative will then prepare two "Daily Progress Reports" which shall be signed by both the Resident Project Representative and Contractor's Representative.
 - 4. Once each month the Resident Project Representative will prepare two "Monthly Progress Summation" forms from the month's accumulation of "Daily Progress Reports" which shall also be signed by both the Resident Project Representative and Contractor's Representative.
 - 5. These completed forms will provide the basis of the Engineer's monthly quantity estimate upon which payment will be made. Items not appearing on both the Daily Progress Reports and Monthly Progress Summation will not be included for payment. Items appearing on forms not properly signed by the Contractor will not be included for payment.
 - 6. After the work is completed and before final payment is made there for, the Engineer will make final measurements to determine the quantities of various items of work accepted as the basis for final settlement.

1.2 SCOPE OF PAYMENT

- A. Payments to the Contractor will be made for the actual quantities of the Contract items performed and accepted in accordance with the Contract Documents. Upon completion of the construction, if these actual quantities show either an increase or decrease from the quantities given in the Bid Form, the Contract unit prices will still prevail.
- B. The Contractor shall accept compensation, as herein provided, in full payment for furnishing all materials, labor, tools, equipment, and incidentals necessary to the completed work and for performing all work contemplated and embraced by the Contract; also for all loss or damage arising from the nature of the Work, or from the action of the elements, or from any unforeseen difficulties which may be encountered during the prosecution of the Work and until its final acceptance by the Engineer, and for all risks of every description connected with the prosecution of the work, except as provided herein, also for all expenses incurred in consequence of the suspension of the work as herein authorized.

C. The payment of any partial estimate or of any retained percentage except by and under the approved final invoice, in no way shall affect the obligation of the Contractor to repair or renew any defective parts of the construction or to be responsible for all damage due to such defects.

1.3 PAYMENT FOR INCREASED OR DECREASED QUANTITIES

A. When alterations in the quantities of work not requiring supplemental agreements, as hereinbefore provided for, are ordered and performed, the Contractor shall accept payment in full at the Contract price for the actual quantities of work done. No allowance will be made for anticipated profits. Increased or decreased work involving supplemental agreements will be paid for as stipulated in such agreements.

1.4 OMITTED ITEMS

A. Should any items contained in the bid form be found unnecessary for the proper completion of the work contracted, the Engineer may eliminate such items from the Contract, and such action shall in no way invalidate the Contract, and no allowance will be made for items so eliminated in making final payment to the Contractor.

1.5 PARTIAL PAYMENTS

A. Partial payments shall be made monthly as the work progresses. Partial payment shall be made subject to the provisions of the Supplemental and General Conditions.

1.6 PAYMENT FOR MATERIAL DELIVERED

A. No payment shall be made for materials delivered until installed in accordance with the specifications.

1.7 FINAL PAYMENT

A. The Engineer will make, as soon as practicable after the entire completion of the project, a final quantity invoice of the amount of the Work performed and the value of such Work. Owner shall make final payments of the sum found due less retainages subject to the provisions of the General and Supplementary Conditions.

1.8 INCIDENTAL WORK

A. Incidental work items for which separate payment is not made include (but are not limited to) the following items:

1. Clearing, grubbing and stripping
2. Dust control
3. Dewatering
4. Clean-up
5. Erosion control
6. Loam and seeding
7. Restoration of property, and replacement of fences, curbs, structures, and other minor items disturbed by the construction activities.
8. Coordination with the Owner, Utilities and others, including related inspection cost
9. Utility crossings and relocations, unless payment is otherwise made
10. Traffic Regulation, including flaggers
11. Steel and/or wood sheeting as required, including that left in place
12. Project record documents
13. Materials and quality assurance testing required by the Contractor

14. Construction schedules, bonds, insurance, shop drawings, warranties, guarantees, certifications, and other submittals required by the Contract Documents
15. Repair and replacement of utilities damaged by construction activities and corresponding proper disposal of removed materials
16. Temporary utilities for construction and to maintain existing service during construction.
17. Temporary construction and other facilities not to be permanently incorporated into the Work necessary for construction sequencing and maintenance of operations
18. Weather protection
19. Permits not otherwise paid for or provided by the Owner
20. Visits to the Project site or elsewhere by personnel or agents of the Contractor, including manufacturer's representatives, as may be required
21. On-site and other facilities acceptable to Engineer for the storage of materials, supplies and equipment to be incorporated into the Work
22. Mobilization/demobilization
23. Pipe markings
24. Pavement markings
25. Removal of existing pavement
26. Earthwork not included in bid items
27. Preconstruction photos and videos
28. Construction administration and insurance
29. Excavation, backfilling and compaction
30. Testing, cleaning and disinfecting water mains including installation of blow-offs for air release, flushing, and air releases, and laboratory testing fees.
31. Required fittings and bends.
32. Connections to existing services and water mains
33. Thrust blocks
34. Pre-blast surveys
35. Clean up, hydroseeding and restoration of right-of-way to preconstruction state.
36. Demolition and abandonment of existing service pipes.
37. Storage of materials and equipment.
38. Test Pit excavation, backfill, documentation of conditions.
39. Saw cutting, grinding, and removal of pavement
40. Loam and Seeding.
41. Miscellaneous asphalt and subbase not included in the pay items.
42. Remove and reset curb.
43. Removal and disposal of pavement.
44. Abandonment of sewers and drains.
45. Compaction testing.
46. Removal/abandonment of existing drainage structures.
47. Handling existing flows.

1.9 DESCRIPTION OF PAY ITEMS

- A. The following sections describe the measurement of and payment for the work to be done under the respective items listed in the Bid Form.

- B. The lump sum price for the base bid and alternates for construction of the FY21 Stormwater Improvements shall be considered as fair compensation for all work described in these specifications, notices, Division 0 through 16 inclusive.
- C. Each unit or lump sum price stated in the Bid Form shall constitute full compensation, as herein specified, for each item of the work completed.

BID ITEM 1A, 2A – RIGHT-OF-WAY BIOSWALE

- A. Method of Measurement: The quantity of right-of-way bioswale to be paid for under Item No. A4 shall be the actual number furnished and installed for a completely functioning bioswale as shown on the drawings and specified.
- B. Basis of Payment: The item shall be paid at the unit price as stated in the Bid Schedule. Said unit price shall be full compensation for all labor, equipment, tools, and other materials required for the installation of the right-of-way bioswale as shown on the drawings and as specified herein; and for all other work and expenses incidental thereto.

BID ITEM 2B – HOT MIX ASPHALT WALK

- A. Method of Measurement: Sidewalk construction adjacent to curb or a grassed strip shall be measured per square yard of asphalt sidewalk constructed or replaced as shown on the drawings and shall be paid at the contract unit price under this Item.
- B. Basis of Payment: This item shall include all materials, labor, and equipment required to remove and dispose of existing sidewalks, gravel subbase, transition sections, and construct new sidewalks as shown on the drawings or as directed by the Engineer. Gravel subbase utilized for the reconstruction of existing and new sidewalks shall be separately measured for payment. Removal and disposal of existing sidewalks shall not be separately measured for payment but shall be considered incidental to the project.

BID ITEM 2C – GRAVEL BORROW

- A. Method of Measurement: Quantity to be paid for under this Item shall be the actual cubic yards of gravel subbase material measured and calculated complete and in place. Refer to drawing details for payment item limits.
- B. Basis for Payment: The contract unit price per cubic yard for placement of gravel sub-base shall constitute full compensation for all labor and equipment necessary to complete this work including furnishing and transporting material to the project site, preparing subgrade, placing, compaction and fine-grading of materials, dust control and all else incidental thereto for which payment is not provided under other items.

BID ITEM 2D – CEMENT CONCRETE WHEELCHAIR RAMP

- A. Method of Measurement: Cement concrete wheelchair ramp construction and replacement shall be measured per square yard constructed or replaced as shown on the drawings and shall be paid at the contract unit price under Item 2d.
- B. Basis of Payment: This item shall include all materials, labor, and equipment required to remove and dispose of existing ramps, gravel subbase, transition

sections, and construct new ramps as shown on the drawings or as required by the Engineer. Gravel subbase utilized for the reconstruction of existing and new sidewalks shall be separately measured for payment. Removal and disposal of existing ramps shall not be separately measured for payment but shall be considered incidental to the project. The Contractor shall install detectable warning panels on all proposed cement concrete wheelchair ramps as shown on the plans according to MassDOT Standard Drawing No. E 107.6.5 or as required by the Engineer.

BID ITEM 2E, 6E – FURNISH AND INSTALL EROSION CONTROLS

- A. Method of Measurement: Measurement for payment under this Bid Item on the Bid Form will be on a linear foot basis for erosion controls furnished and installed within the limits of the Project as shown on the Drawings.
- B. Basis of Payment: Payment for this Bid Item will be made for the quantity determined above at the unit price bid per linear foot which price and payment shall be full compensation for all labor, equipment, materials and incidentals required to maintain and replace as necessary all sedimentation and erosion control measures installed, and remove and dispose of all erosion and sedimentation controls at the completion of the contract, as specified herein or directed by the Owner and Engineer, and all work required for or incidental to the satisfactory completion of the Item for which separate payment is not provided under other items in the Bid Form.

BID ITEM 3A, 4A – INSTALL SILT PRISON 160DP OR 160D

- A. Method of Measurement: The quantity of new SiltPrisons furnished and installed to be paid for under this Item shall be the actual number installed.
- B. Basis of Payment: These items shall be paid for at the unit price per each stated in the Bid Schedule. Said unit price shall be full compensation for all fittings, labor, equipment, tools and other materials required for the installation of a new SiltPrison, gaskets, sealants, mortar/concrete work, connections and couplings; and all incidental work necessary to complete the SiltPrison installation as shown on the drawings and as specified herein; and for all other work and expenses incidental thereto.

BID ITEM 5A – FURNISH AND INSTALL DOUBLE CATCH BASIN FRAME AND GRATE

- A. Method of Measurement: Measurement for removing existing frame and grate and furnishing and installing new double frame and grate will be the actual number of manhole frames and grates replaced.
- B. Basis of Payment: Payment for new frames and grates will be made for the quantity determined above and at the unit price bid on the Bid Form for each catch basin shown on the Drawings. Payment shall be full compensation for furnishing all labor, materials and equipment required to remove and dispose of existing frame and grate; cutting and removing existing pavement; placing mortar; furnishing and installing new frame and grate; replacing existing brick corbel to a depth consistent with condition of existing brickwork; subbase preparation; hot mix asphalt paving; and all work incidental thereto for which payment is not provided under other items on the Bid Form.

BID ITEM 6A – ARCH CULVERT PIPE COMPLETE IN PLACE, ALL DEPTHS

- A. Method of Measurement: The quantity of drainage pipe to be paid for under this item shall be the actual length in feet as measured along the center line of pipe completed in place.
- B. Basis of Payment: Arch Culvert Pipe shall be paid for at the unit price per linear foot stated in the Bid Schedule. Said unit price shall be full compensation for constructing the drains, complete in place, as indicated on the drawings and as specified, including furnishing and installing pipe and fittings, excavation, backfill, bedding, select material, clearing, grubbing, testing, removal and replacement of sidewalks, curbing, disposal of all excess materials, filter fabric, crushed stone, saw cutting, and all work incidental thereto and not specifically included for payment under other. Police details will be coordinated by the Contractor but will be paid directly by the DPW.
- C. All temporary items and labor necessary to properly protect work shall be covered under this item.

BID ITEM 6B, 7D – HDPE DRAIN PIPE COMPLETE IN PLACE, ALL DEPTHS

- A. Method of Measurement: The quantity of drainage pipe to be paid for under this item shall be the actual length in feet as measured along the center line of manhole/catch basin to centerline of manhole/catch basin.
- B. Basis of Payment: Drainage Pipe shall be paid for at the unit price per linear foot stated in the Bid Schedule. Said unit price shall be full compensation for constructing the drains, complete in place, as indicated on the drawings and as specified, including furnishing and installing pipe and fittings, excavation, backfill, bedding, select material, clearing, grubbing, testing, removal and replacement of sidewalks, curbing, disposal of all excess materials, filter fabric, crushed stone, saw cutting, and all work incidental thereto and not specifically included for payment under other. Police details will be coordinated by the Contractor but will be paid directly by the DPW.
- C. All temporary items and labor necessary to properly protect work shall be covered under this item.

BID ITEM 6C – FURNISH AND INSTALL CATCH BASIN

- A. Method of Measurement: The quantity of new precast concrete catch basins/drain manholes/gutter inlets to be paid for this Item shall be the actual number furnished and installed.
- B. Basis of Payment: These items shall be paid for at the unit price per each stated in the Bid Schedule. Said unit price shall be full compensation for all fittings, labor, equipment, tools and other materials required for the installation of a new precast concrete catch basin/manhole, frame and grate/cover and connection to the existing outlet pipe; furnishing and installing sump, offset sumps, gutter inlets base, invert channels, steps, gaskets, sealants, connections and couplings; and all incidental work necessary to complete the precast concrete catch basin/manhole base as shown on the drawings and as specified herein; for grouting the frame to the brick courses; for trench dewatering; for excavating and backfilling; for replacing or rebuilding shrubs, fences, lawns, trees, and other materials except other such items specifically included in the Bid Schedule; and for all other work and expenses incidental thereto.

BID ITEM 6D – HMA TRENCH PAVING

- A. Method of Measurement: Quantity to be paid for under this Item shall be the actual square yards of pavement placed within a maximum payment width of 4-feet. The actual width will be used in computing area whenever the width of the pavement removed and replaced is less than the above-specified limits.
- B. Basis of Payment: The pavement shall be paid for at the unit price per square yards stated in the Bid Schedule. Said unit price shall be full compensation for furnishing all materials, labor, equipment, and tools necessary for furnishing and installing all aggregate base in existing paved areas disturbed by the work, placement of pavement and aggregate in two courses; for all maintenance and repair of pavement; and for all other work and expenses incidental thereto. This item includes pavement of roadways, sidewalks and driveways disturbed by the work.

BID ITEM 7A – BIORETENTION CELL

- A. Method of Measurement: The quantity of bioretention cell to be paid for under this Item shall be a lump sum price for furnishing and installing a completely functioning bioretention cell as shown on the drawings and specified.
- B. Basis of Payment: The item shall be paid at the lump sum cost as stated in the Bid Schedule. Said unit price shall be full compensation for all labor, equipment, tools, plants, excavation and backfill, grading, soil and stone materials, Rain Guardian Turret, animal barrier, and other materials required for the installation of the bioretention cell as shown on the drawings and as specified herein; and for all other work and expenses incidental thereto.

BID ITEM 7B – HMA (CAPE COD) BERM (MODIFIED TYPE “A”)

- A. Method of Measurement: HMA Berm shall be measured per linear foot of berm installed and shall be paid at the contract unit price under this item.
- B. Basis of Payment: This item shall include installation of berm as indicated on the drawings and as specified within the contract documents.

BID ITEM 7C – FURNISH AND INSTALL SQUARE DRAIN COVER TO REPLACE GRATE

- A. Method of Measurement: Measurement for removing existing grate and furnishing and installing new square grate will be the actual number of grates replaced with covers.
- B. Basis of Payment: Payment for new covers will be made for the quantity determined above and at the unit price bid on the Bid Form for each catch basin shown on the Drawings. Payment shall be full compensation for furnishing all labor, materials and equipment required to remove and dispose of existing grate; furnishing and installing new cover; and all work incidental thereto for which payment is not provided under other items on the Bid Form.

BID ITEM 8A – INSTALL HYDRODYNAMIC SEPARATOR

- A. Method of Measurement: The quantity of new hydrodynamic separators installed to be paid for under this Item shall be the actual number installed. The hydrodynamic separator and it's frame and grate shall be furnished by the Town.
- B. Basis of Payment: These items shall be paid for at the unit price per each stated in the Bid Schedule. Said unit price shall be full compensation for all fittings, labor, equipment, tools and other materials required for the installation of a new hydrodynamic separator, subbase preparation, gaskets, sealants, connections and couplings; and all incidental work necessary to complete the hydrodynamic separator base as shown on the drawings and as specified herein; for grouting the frame to the brick courses; for trench dewatering; for excavating and backfilling; for replacing or rebuilding shrubs, fences, lawns, trees, asphalt and other materials except other such items specifically included in the Bid Schedule; and for all other work and expenses incidental thereto.

BID ITEM 2F – SPLIT RAIL AND POST FENCE

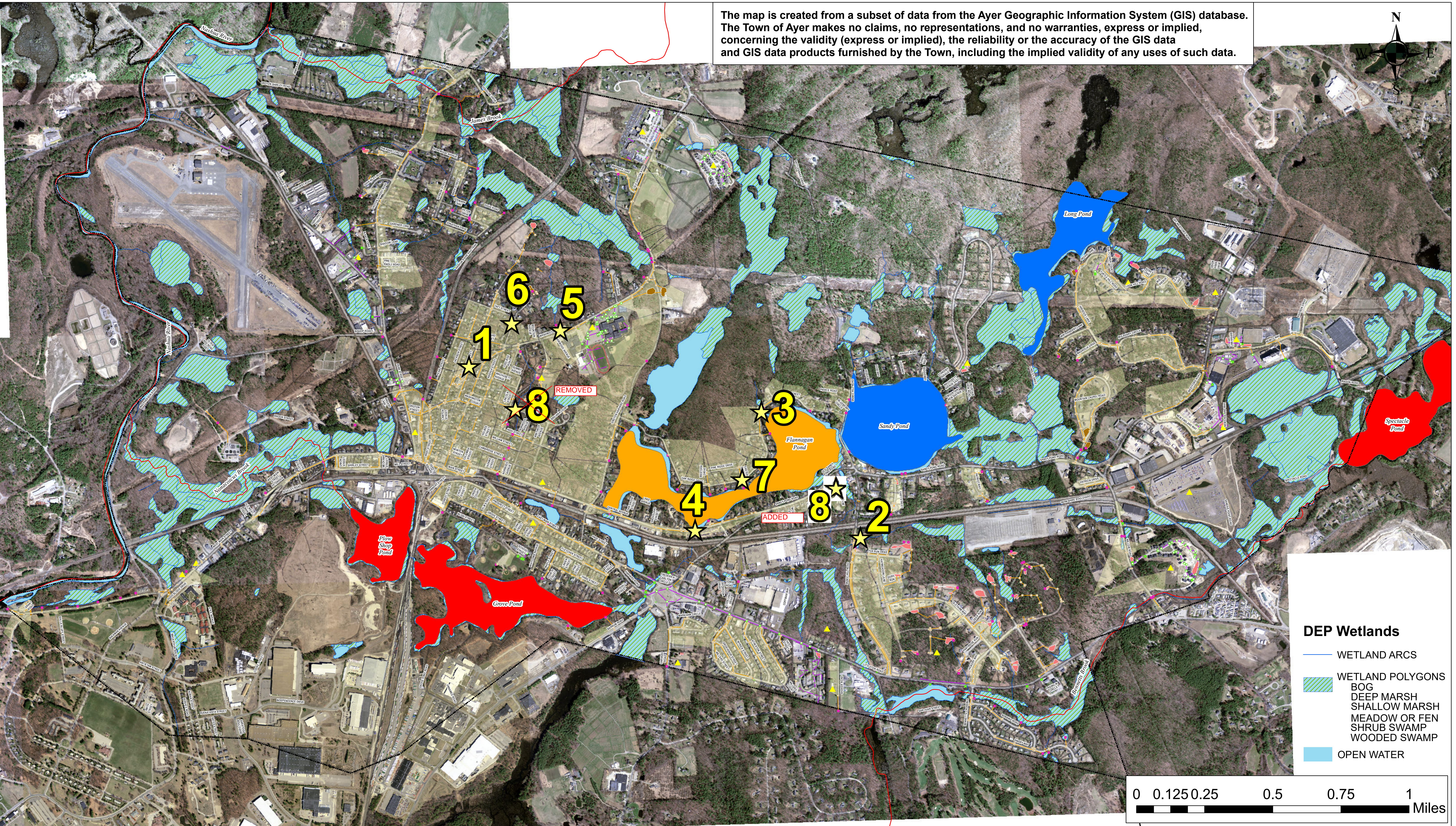
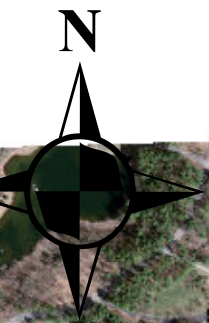
- A. Method of Measurement: Split Rail and Post Fence shall be measured per linear foot of fence installed and shall be paid at the contract unit price under this item.
- B. Basis of Payment: These items shall be paid for at the unit price per each stated in the Bid Schedule. Said unit price shall be full compensation for furnishing and installing all fittings, labor, equipment, tools and other materials required for the installation of a new split rail and post fence, subbase preparation, post hole digging; and all incidental work necessary to complete the fence as shown on the drawings and as specified herein; for excavating and backfilling; for replacing or rebuilding shrubs, fences, lawns, trees, asphalt and other materials except other such items specifically included in the Bid Schedule; and for all other work and expenses incidental thereto.

SAWCUTTING ASPHALT PAVEMENT:

1. Sawcutting of limits of work shall be by mechanically powered saw as per MassDOT standards specifications. The use of a jackhammer to sawcut limits of work will not be allowed.
2. Sawcutting of hot mix asphalt limits of work shall not be separately measured for payment, but shall be considered incidental to the project.

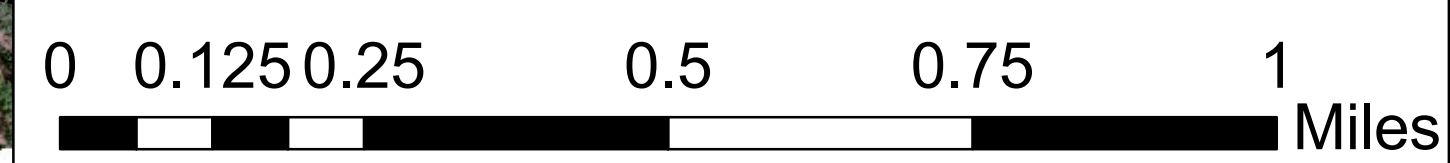
END OF SECTION

The map is created from a subset of data from the Ayer Geographic Information System (GIS) database. The Town of Ayer makes no claims, no representations, and no warranties, express or implied, concerning the validity (express or implied), the reliability or the accuracy of the GIS data and GIS data products furnished by the Town, including the implied validity of any uses of such data.



DEP Wetlands

- WETLAND ARCS
- WETLAND POLYGONS
 - BOG
 - DEEP MARSH
 - SHALLOW MARSH
 - MEADOW OR FEN
 - SHRUB SWAMP
 - WOODED SWAMP
- OPEN WATER



**TOWN OF AYER, MASSACHUSETTS
FY21 STORMWATER IMPROVEMENTS
OVERVIEW**
March 2021



ADDENDA 2

Legend

- Catch Basin (Private Owner)
- Culvert (Private Owner)
- Manhole (Private Owner)
- Outfall (Private Owner)
- Vortex (Private Owner)
- Catch Basin
- Culvert Inlet/Outlet
- Manhole
- Outfall
- Vortex
- Culvert
- Drain Pipe (Private Owner)
- Drain Pipe
- Open Channel Conveyance
- ▲ Private BMP Steward
- Stormwater Basin (Publicly Owned or Maintained)
- Stormwater Basin (Privately Owned or Maintained)
- Town Owned Bioretention/ Rain Gardens
- Initial Catchment Delineations

★1 Proposed Work Location

Impaired Waters (303d Category)

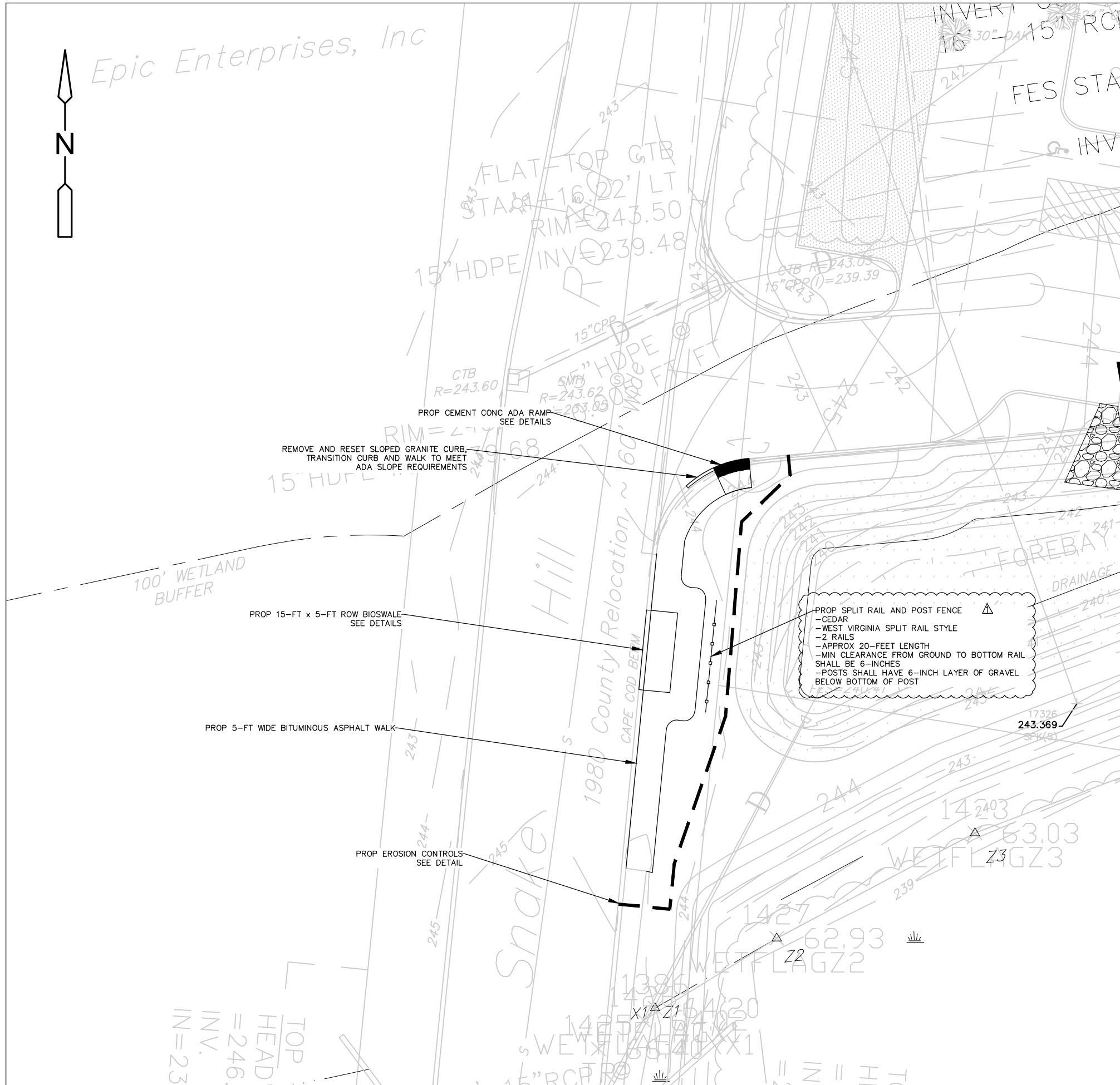
- 2-Attaining Some Uses; Other Uses Not Assessed
- 3-No Uses Assessed
- 4A-Impaired-TMDL is Completed
- 4C-Impairment Not Caused by a Pollutant
- 5-Impaired-TMDL Required

Impaired Rivers (303d Category)

- 2-Attaining Some Uses; Other Uses Not Assessed
- 3-No Uses Assessed
- 4A-Impaired-TMDL is Completed
- 4C-Impairment Not Caused by a Pollutant
- 5-Impaired-TMDL Required



Epic Enterprises, Inc



GENERAL NOTES:

1. ALL SPECIFICATION SECTION DIVISION 2 SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (1995), INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS. IN THE EVENT THERE IS A CONFLICT BETWEEN THE STANDARD SPECIFICATIONS AND THE SUPPLEMENTAL SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL APPLY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SPOIL/EXCESS MATERIAL FROM THE SITE.
3. ALL DISTURBED AREAS NOT PROPOSED TO BE IMPROVED SHALL BE RESTORED TO THEIR PRIOR CONDITION, EITHER PAVEMENT, GRAVEL, OR 4-INCH LOAM AND SEED.
4. ALL DISPOSAL OF DEMOLITION DEBRIS OR WASTES SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CONTRACTOR SHALL PROVIDE OWNER WITH APPROPRIATE "BILLS OF LADING" DEMONSTRATING PROPER DISPOSAL OF ALL MATERIALS.
5. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONNECTING NEW SERVICES.
6. UTILITY LOCATIONS SHOWN ARE APPROXIMATE.

ENGINEER:



Ayer DPW
25 Brook Street
Ayer, Massachusetts

REVISIONS:

MARK	DATE	DESCRIPTION
A	4/23/21	ADD FENCE

PROJECT:

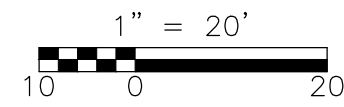
LOCATION 2 - DOG PARK ROW BIOSWALE AND SIDEWALK CONNECTION

FILE NAME:

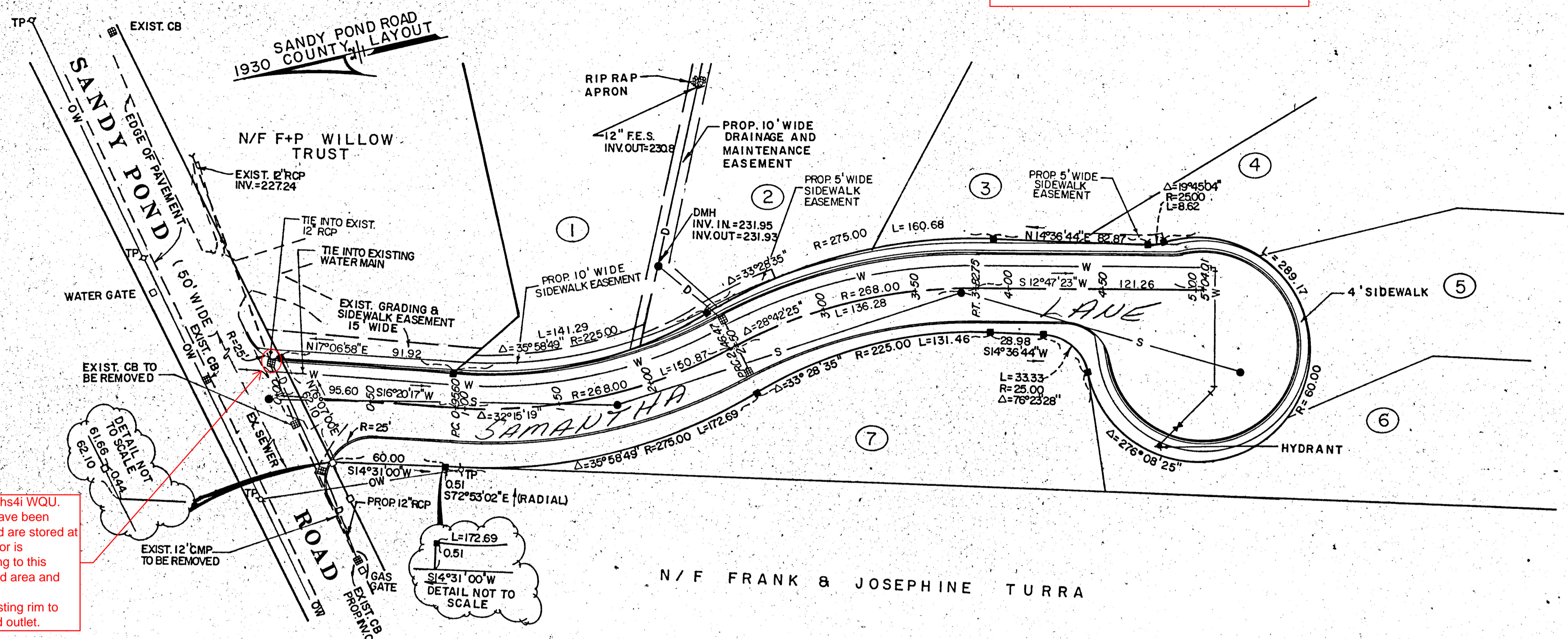
AUTHOR: D. VAN SCHALKWYK
DRAFTER: D. VAN SCHALKWYK
CHECKED BY: M. WETZEL
DATE: MARCH 2021

SHEET TITLE:
**PROPOSED CONDITIONS
ADDENDA 2**

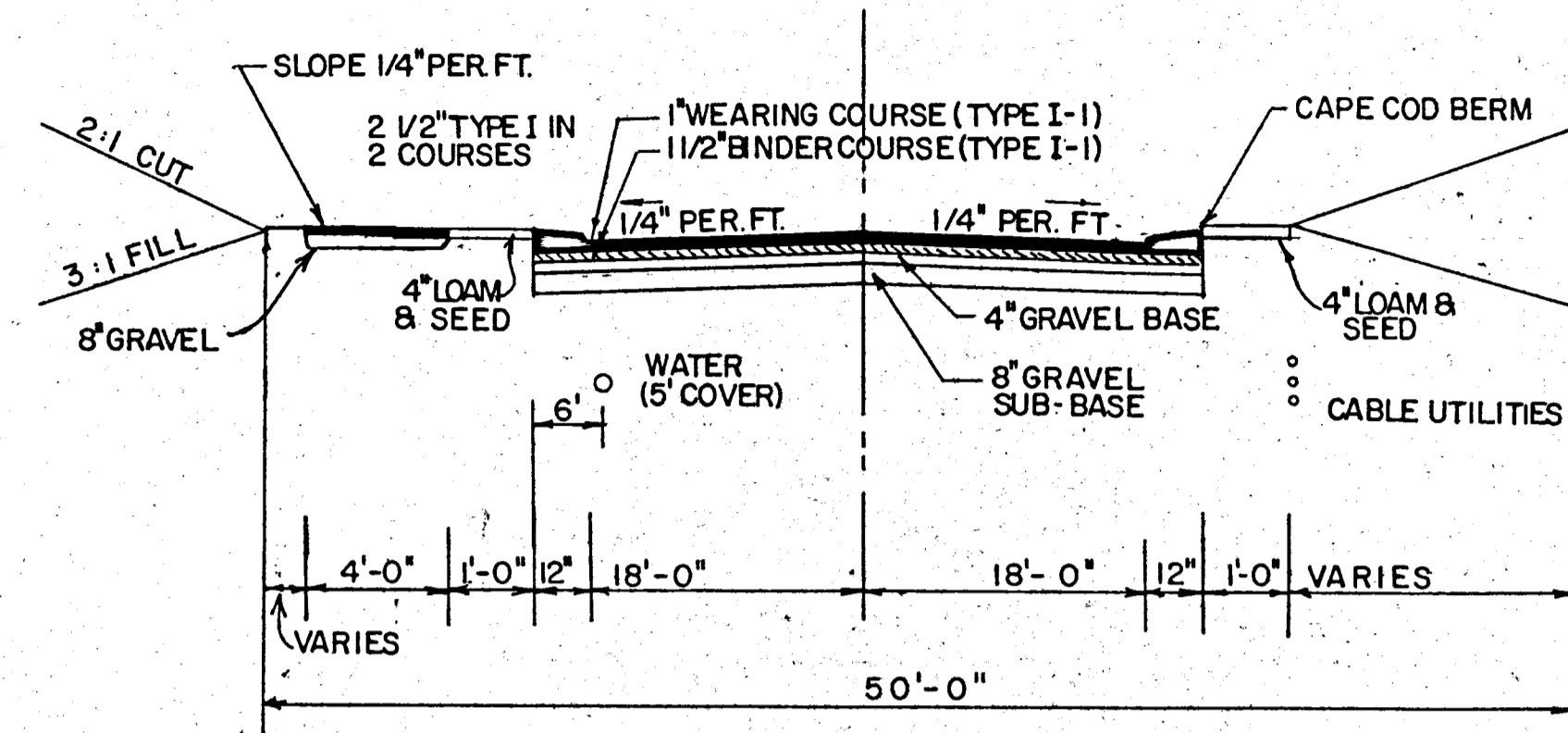
SHEET:



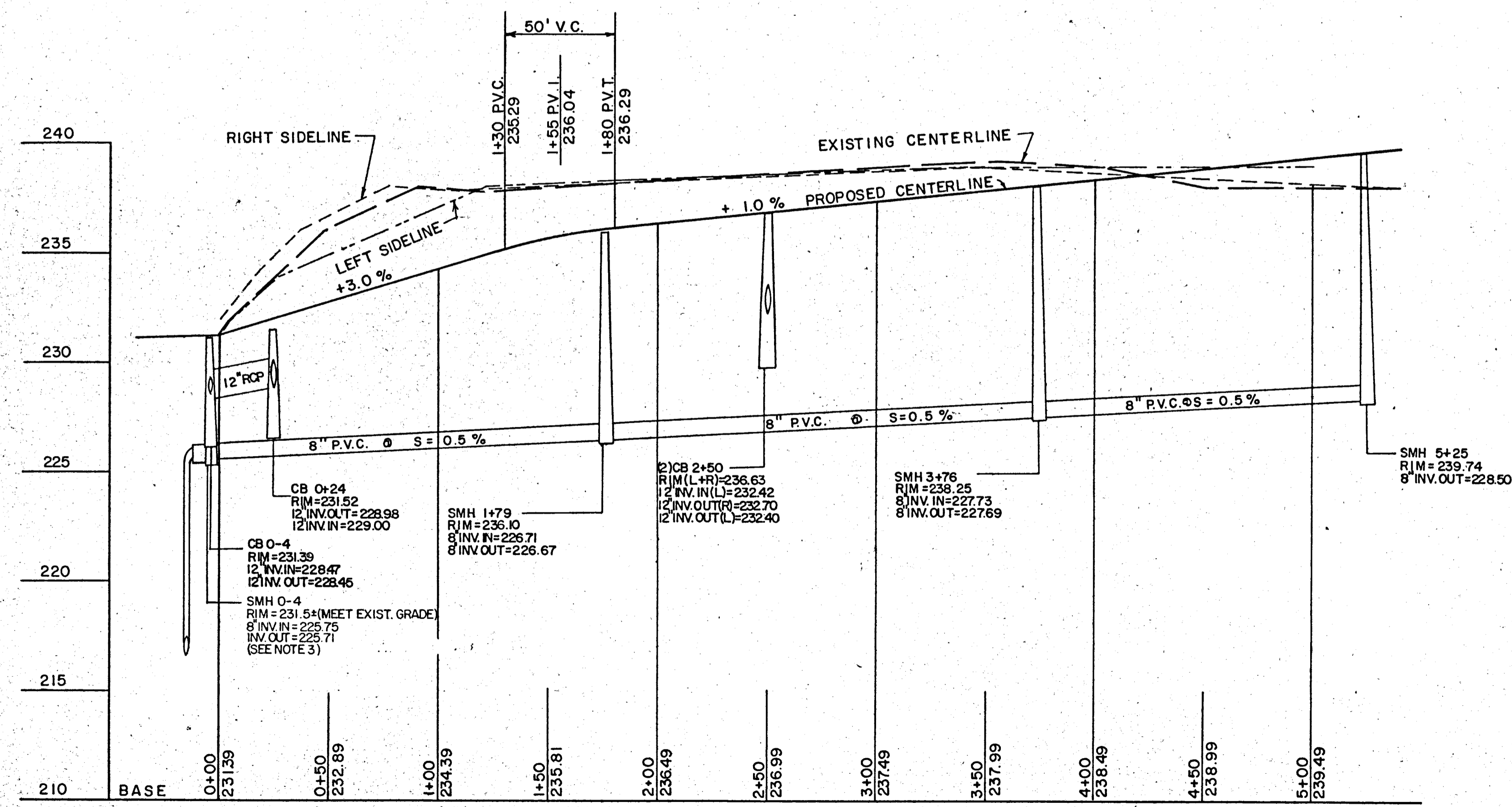
LOCATION 8 - SAMANTHA LANE TREATMENT UNIT



Replace catch basin with hs41 WQU, WQU, frame, and grate have been furnished by the DPW and are stored at 25 Brook Street. Contractor is responsible for transporting to this location. Restore disturbed area and repave to match existing.
 Note: Field measured existing rim to invert of 3-feet at inlet and outlet.



TYPICAL STREET CROSS-SECTION
 (NO SCALE)



SAMANTHA LANE

SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.

NOTES

- ALL ELEVATIONS REFER TO N.G.V.D. OF 1929.
- PROPOSED WATER MAIN SHALL BE 8" DIA. CEMENT LINED DUCTILE IRON PIPE. CONNECTION TO EXISTING WATER MAIN SHALL BE BY TAPPING SLEEVE AND VALVE.
- SIZE AND MATERIAL OF EXISTING SEWER SHALL BE DETERMINED BEFORE CONSTRUCTION OF INTERIOR DROP MANHOLE.
- PROPOSED DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (CL. IV).
- PLANS SUBJECT TO COVENANT DATED FEBRUARY 9, 1990.

LEGEND

- DENOTES PROPOSED SEWER MANHOLE
- DENOTES PROPOSED SEWER LINE
- DENOTES PROPOSED DRAIN LINE
- DENOTES PROPOSED WATER LINE
- DENOTES OVERHEAD WIRES
- DENOTES PROPOSED CATCH BASIN
- DENOTES TELEPHONE POLE
- DENOTES CONCRETE BOUND TO BE SET
- DENOTES PROPOSED CAPE COD BERM
- DENOTES MECHANICAL JOINT GATE VALVE
- DENOTES MECHANICAL JOINT BEND W/THRUST BLOCK

"I HEREBY CERTIFY THAT NO NOTICE OF APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF NOTICE FROM THE PLANNING BOARD OF THE APPROVAL OF THIS PLAN."

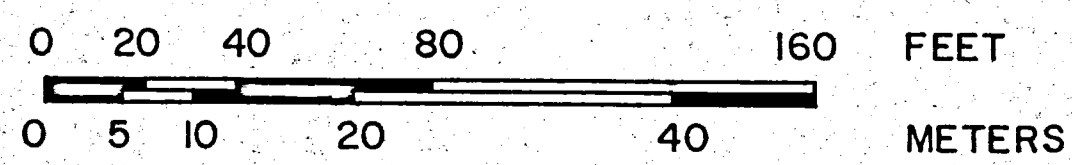
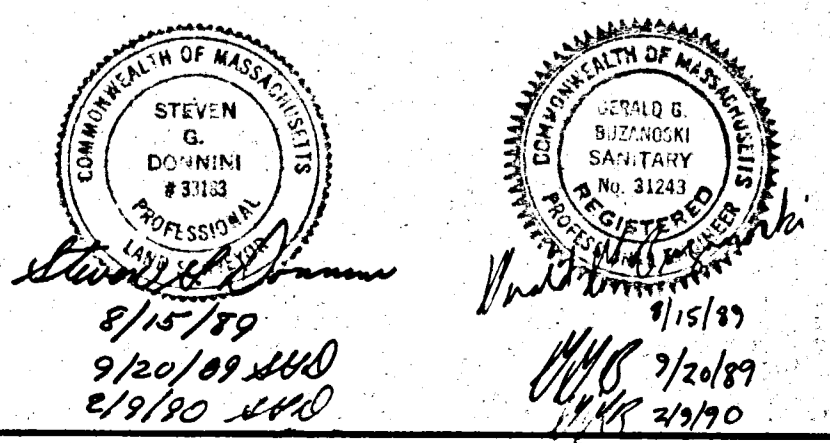
TOWN CLERK _____ DATE _____

APPROVAL UNDER THE SUBDIVISION CONTROL LAW REQUIRED.
 AYER PLANNING BOARD:

 DATE: _____

PLAN & PROFILE
 "SANDY HOLLOW"

PLAN OF LAND IN
AYER, MASS.
 PREPARED FOR: WOODWRIGHT CONSTRUCTION CO.
 SCALE: 1" = 40' AUGUST 15, 1989
 SCHOFIELD BROTHERS INC.
 PROFESSIONAL LAND SURVEYORS & ENGINEERS
 626 MAIN STREET - BOLTON, MASS., 01740
 REVISED: 9/20/89, 2/9/90



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