



July 30, 2021

Mr. Gregory Young, Chair
Northborough Conservation Commission
Town Offices
63 Main Street
Northborough, Massachusetts 01532

Via: Hand Delivery and email; mmcdonald@town.northborough.ma.us

Reference: Notice of Intent
West Street Waterline Extension
Northborough, Massachusetts
WDA JN-1207.03

Dear Mr. Young and Members of the Commission:

On behalf of Brant Viner and Margaret Harling (Applicant), we are submitting herewith a Notice of Intent for approval of the work associated with the construction of a 1,770 linear foot extension to the existing 8" waterline, located within a portion of West Street. The new waterline will be extended from the existing hydrant/water stub near #20 West Street up to the West and Cherry Street intersection and provide service laterals to abutting properties. A new 8" waterline will tee off the extension and run up the approved common drive (DEP file #247-1189, WCRD Bk. 65093, Pg.217) to service the proposed homes within the property at 95 West Street (future drive name and addresses to be assigned by Town). The water line extension is required per Town zoning regulations for any common drive that services more than two (2) lots when an existing waterline is within 2000' feet of the proposed common drive. The waterline design plans were presented to, and reviewed by the Town DPW Director and Engineer, and the plans as submitted in this application reflect the comments and revisions that they provided and approved, dated July 23, 2021.

A portion of the work is located within the 100' buffer zone to bordering vegetated wetlands, however, no wetland alteration is proposed, and the water line construction qualifies as a minor activity and limited project under 310 CMR 10.02(2)(b)2. i. and 10.53(3)(d) respectively. This filing has been prepared in accordance with the Massachusetts Wetlands Protection Act (the Act) and Regulations, and the Town of Northborough Wetlands Bylaw and Wetlands Regulations and contains the following for your reference:

1. WPA Form 3 – Notice of Intent
2. NOI Wetland Fee Transmittal Form
3. Filing Fee of \$262.50 for Town's share of Notice of Intent
4. Copy of State share of NOI filing fee of \$237.50
5. Additional Local Bylaw Fee of \$90
6. 8½" x 11" USGS Map
7. FEMA Flood Map

8. Certified List of Abutters within 100'
9. Notification to Abutters
10. Copy of recorded Order of Conditions for Common Drive
11. Existing Conditions and West Street Water Line Extension plans, prepared by WDA Design Group, dated July 23, 2021

Existing Conditions

The existing waterline route is located entirely within the Town right-of-way and paved roadway of West Street (from Church Street to approximately 770' to the southeast, terminating adjacent to #20 West Street). With this long, linear project, abutting properties within 100' of the proposed waterline are comprised of 17 abutting parcels (including the common drive locus parcel and #85 West Street). Some of the parcels located along West Street contain single-family homes and outbuildings, with paved driveways and other open space or undeveloped properties of private ownership, the Town of Northborough, and the MA DCR. The properties are located entirely within the Residential B (RB) Zoning District, with a portion of the front area of the locus property (#85 and 95) contained within the Zone 3 Groundwater Overlay District. A portion of 85 and 95 West Street contain an area of Zone A, 100-year flood zone, as shown on the Flood Insurance Rate Map for the Town of Northborough (Community Panel # 25027C0633F, effective date July 16, 2014). The flood zone is associated with Cold Harbor Brook which is located several hundred feet to the north of the property. The flood zone noted for 85 West Street encompasses a small pond located at the front of the property adjacent to West Street. This pond discharges flows via a riser pipe to a culvert under West Street which discharges flows into an intermittent stream channel to the north. This flood zone is indicated at elevation 321.3 to 321.4'. The flood zone noted for 95 West Street is shown located within the field area near the corner of West Street and Cherry Street. This also is connected to a culvert which conveys flows from the field area under Cherry Street. This flood zone in this location is noted as elevation 318.7 to 318.8'.

No portion of the water line route contains a designated area of priority habitat of rare species or wildlife, or vernal pools (potential or certified), according to the Natural Heritage Atlas, valid from August 1, 2017. Soils mapped along the roadway route by the NRCS are primarily Paxton fine sandy loam (map units 306 B/C), Windsor loamy sand (255B), Chatfield-Holli-Rock outcrop complex (102C) and Woodbridge fine sandy loam (312B).

WDA delineated areas of wetlands and completed a field survey location of the flagging along the West Street corridor from the area near the existing hydrant up to the Cherry Street intersection. These areas are noted on the attached plans and are field delineated with blue flagging. The new flagging is identified as groups WF 200-205, WF 250-256, WF 300-317, WF 350-354, WF 400-404 and WF 500-516 along the north side of West Street. The southerly side is delineated by blue flags labeled WF 600-608 and IW A-D (isolated wetland). Other areas along the south side of West Street and near Cherry Street, specifically flags WF 48-58, WF 85-91 (along pond), 100-101 and WF 116-119 were previously delineated and approved during the prior ANRAD and Notice of Intent filings for 85 and 95 West Street (DEP File numbers 247-1150, WCRD 59605/pg. 218 dated 10/26/2018, and 247-1189, WCRD bk. 65093/pg. 217 dated 5/14/2021) respectively.

These wetland areas are generally comprised of wooded shrub swamps, with areas of marsh, meadow, and aquatic habitats. The pond is a manmade pond, approximately 17,000 sf surface area. A 12" vertical standpipe located within the pond, near the West Street side, discharges highwater flows into a 12" corrugated metal culvert (to be replaced as part of waterline project and described further in this letter) which runs under West Street and into an intermittent stream channel. The wetland areas as defined above are generally comprised of red maple, elm, gray birch, pussy

willow, silky dogwood, highbush blueberry, winterberry, speckled alder, cattail, jewelweed, skunk cabbage, wool grass, soft rush, cutgrass, goldenrod, poison ivy, cinnamon, and sensitive fern. Adjacent upland areas are dominated by white pine, oak, black and white birch, hickory, ash, red maple, sugar maple, black cherry, apple, hornbeam, teaberry, Pennsylvania sedge, poison ivy and multiflora rose.

Proposed Project

The proposed project consists of the extension of an 8" cement lined ductile iron (CLDI) water main from the existing hydrant/waterline stub within West Street, adjacent #20 West Street, approximately 770' west of the Church Street intersection. The line would be extended approximately 1770' to its termination at a hydrant and tee at the Cherry and West Street intersection (approximately 160' southeast of the proposed common drive intersection). Construction would entail saw cutting of a trench within the existing pavement and connecting to the existing 8" CLDI water line, the line would then turn to the northwest and run along and within the north side of the roadway (DPW requested the line be placed within the pavement minimum 2' from edge of shoulder). The line would run 920'± to approximately station 8+50 where it would then cross the street to the south and run along the south side of West Street all the way to the terminus at Cherry Street. No work is proposed within a resource area.

As the project is a buffer zone project only and qualifies as a minor activity under section 310 CMR 10.02(2)(b)2. i. and will also comply with the regulations outlined for section 10.02(2)(b)1, the activity is not subject to regulation under MGL Chapter 131, Section 40. The project also qualifies as a Limited Project under 310 CMR 10.53(3)(d) for the construction of a public utility (water line) that utilizes best management measures to limit the potential of adverse impacts during construction. The design meets the regulations by closure of trenching at the end of each workday and utilizing erosion control barriers consisting of staked and entrenched silt fence and coir logs, as well as repaving of the trenches to existing grade as soon as possible following installation of the water line in the road. Please refer to attached site plans, for additional information

In conclusion we have outlined the relationship of the proposed project to the eight interests of the Act:

Public and Private Water Supply: Several of the existing single-family homes along West Street and the home at 85 West Street are on existing wells. The five proposed single-family homes will be served by a connection to the municipal water service extension in West Street or the Common Drive. Future connections to the municipal waterline extension for owners with existing wells will be determined by the Town as applicable.

Groundwater Supply: The waterline installation within the existing paved roadway at a depth of 5' is not expected to impact groundwater supply.

Flood Control: Although there is mapped 100 year (Flood Zone AE) mapped on portions of the site, no work is proposed within those areas, therefore no flood plain area is to be impacted by this development.

Storm Damage Prevention: During construction, erosion control barriers will be utilized to prevent storm damage and establish the limit of the proposed work area. Erosion control measures along the route will not be removed until all disturbed areas are stabilized. Trench areas will be backfilled or closed off at the end of each workday. Repaving of trench areas will occur as soon as possible following the waterline installation. Runoff flow patterns will be maintained under proposed conditions to prevent storm damage.

Prevention of Pollution: Pollution during construction will be prevented by the utilization of erosion control measures and working within sawcut channels in existing pavement. After the site is stabilized, runoff from the site should contain nothing more than minimal amounts of sediment.

Protection of Land Containing Shellfish: The land does not contain shellfish.

Protect Fisheries: Although Cold Harbor Brook may contain a resident fishery, the brook is located approximately 250' north and west of the proposed waterline extension and will not be impacted by the project.

Protection of Wildlife Habitat: The site does not contain any areas of priority habitat, rare species or certified vernal pools according to the Natural Heritage Atlas, August 1, 2017. The area associated with the construction of the waterline extension is not anticipated to impact potential wildlife habitat as the waterline will be constructed within existing paved roadway. The existing large corridors of undisturbed upland and wetlands along the road will remain undisturbed.

We thank you in advance for your attention to the enclosed information and look forward to meeting with the Commission remotely at the next available public hearing to discuss this project in greater detail.

Sincerely,

WDA DESIGN GROUP, INC.



Brian P. Waterman
Wetland Specialist



Barry A. Yaceshyn, PE
Project Engineer

cc: DEP Central Regional Office, 1 copy (via certified mail)
Mr. Brant Viner and Ms. Margaret Harling

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Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Northborough

City/Town

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>West Street</u>	<u>Northborough</u>	<u>01532</u>
a. Street Address	b. City/Town	c. Zip Code
<u>Latitude and Longitude:</u>	<u>42-19-34.14 N</u>	<u>71-40-03.30 W</u>
	d. Latitude	e. Longitude
<u>N/A</u>	<u>g. Parcel /Lot Number</u>	
f. Assessors Map/Plat Number		

2. Applicant:

<u>Brant and Margaret</u>	<u>Viner and Harling</u>	
a. First Name	b. Last Name	
<u>c. Organization</u>		
<u>PO Box 295</u>		
d. Street Address		
<u>Ellsworth</u>	<u>ME</u>	<u>04605</u>
e. City/Town	f. State	g. Zip Code
<u>207-412-0070</u>	<u>brant.viner@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

<u>Town of Northborough-Department of Public Works</u>	<u>b. Last Name</u>	
a. First Name		
<u>c. Organization</u>		
<u>63 Main Street</u>		
d. Street Address		
<u>Northborough</u>	<u>MA</u>	<u>01532</u>
e. City/Town	f. State	g. Zip Code
<u>508-393-5030</u>	<u>scharpentier@town.northborough.ma.us</u>	
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Brian</u>	<u>Waterman</u>	
a. First Name	b. Last Name	
<u>WDA Design Group</u>		
c. Company		
<u>31 East Main Street</u>		
d. Street Address		
<u>Westborough</u>	<u>MA</u>	<u>01581</u>
e. City/Town	f. State	g. Zip Code
<u>508-366-6552</u>	<u>508-366-6506</u>	<u>bwaterman@wda-dg.com</u>
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$500</u>	<u>\$237.50</u>	<u>\$262.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

extension/construction of 8" water main within a portion of West Street in Northborough. Installation within existing paved roadway via sawcut and trenching. Some work within 100 buffer zone to a wetland, no work within a resource area. Trenches to be closed off at end of each work day and repaved to grade as soon as possible, Erosion controls to be utilized until complete and stabilized

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

310 CMR 10.53 (3)(d) water line extension/installation within West Street to serve the public

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Worcester

a. County

b. Certificate # (if registered land)

N/A (Town road)

c. Book

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____	2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____

- f. Riverfront Area
1. Name of Waterway (if available) - **specify coastal or inland** _____
2. Width of Riverfront Area (check one):
- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

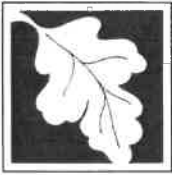
a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
 Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

Natural Heritage and Endangered Species Program
 Division of Fisheries and Wildlife
 1 Rabbit Hill Road
 Westborough, MA 01581

- 8/1/17
 b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

- Percentage/acreage of property to be altered:

(a) within wetland Resource Area _____ percentage/acreage

(b) outside Resource Area _____ percentage/acreage

- Assessor's Map or right-of-way plan of site

- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/mas-endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

- (c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).
- Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

- 1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
- 2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____
- 3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

- 3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- c. Is this an aquaculture project? d. Yes No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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C. Other Applicable Standards and Requirements (cont'd)

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



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D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

West Street Waterline Extension Plans

a. Plan Title

WDA Design Group

Ken Strom, PLS, Greg Scotchie, PE

b. Prepared By

c. Signed and Stamped by

7/23/2021

1"=10' and 1"=30'

d. Final Revision Date

e. Scale

USGS locus, FEMA Flood map, Order of Conditions

as noted

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. Attach NOI Wetland Fee Transmittal Form
9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

15511

7/29/21

2. Municipal Check Number

3. Check date

15510

7/29/21

4. State Check Number

5. Check date

WDA Design Group, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

Document Transaction Number

Northborough

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

[Handwritten Signature]

2. Date

07/29/2021

3. Signature of Property Owner (if different)

[Handwritten Signature]

4. Date

7/29/21

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

West Street	Northborough
a. Street Address	b. City/Town
15510	\$237.50
c. Check number	d. Fee amount

2. Applicant Mailing Address:

Brant and Margaret	Viner and Harling	
a. First Name	b. Last Name	
c. Organization		
PO Box 295		
d. Mailing Address		
Ellsworth	ME	04605
e. City/Town	f. State	g. Zip Code
207-412-0070	brant.viner@gmail.com	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

a. First Name	b. Last Name	
Town of Northborough-Department of Public Works		
c. Organization		
63 Main Street		
d. Mailing Address		
Northborough	MA	01532
e. City/Town	f. State	g. Zip Code
508-393-5030	scharpentier@town.northborough.ma.us	
h. Phone Number	i. Fax Number	j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2(e) -inland limited projects	1	\$500	\$500

Step 5/Total Project Fee: \$500

Step 6/Fee Payments:

Total Project Fee:	\$500
State share of filing Fee:	\$237.50
City/Town share of filling Fee:	\$262.50
	a. Total Fee from Step 5
	b. 1/2 Total Fee less \$12.50
	c. 1/2 Total Fee plus \$12.50

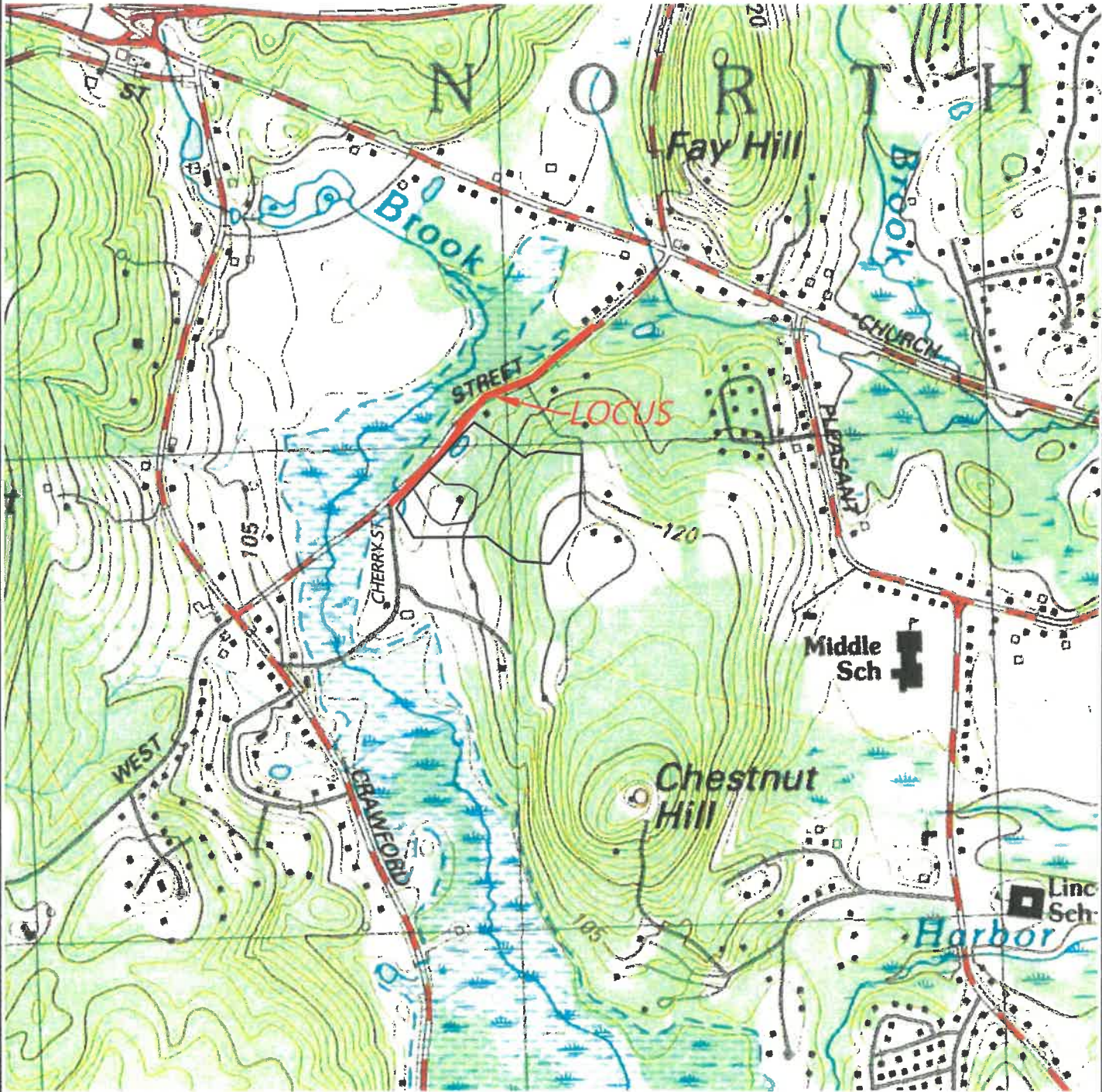
C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



PREPARED BY:



31 EAST MAIN STREET WESTBOROUGH, MA | 508.366.6552
 7 CENTRAL STREET PROVIDENCE, RI | 401.274.1360
 WDA-DG.COM

TITLE: USGS LOCUS PLAN
 West Street
 Northborough, MA

PREPARED FOR: BRANT L. VINER &
 MARGARET HARLING
 PO Box 295
 Ellsworth, ME 04605

SOURCE: USGS Topographic Map

DATE:	07/29/21	FILE NO.:	1207001	DRAWN BY:	BPW
JOB NO.:	1207.00	DWG NO.:		REV DATE:	///
				REV. NO.:	



National Flood Hazard Layer FIRMette



71°40'33"W 42°19'37"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000
 71°39'56"W 42°19'10"N
 © 2020 The National Map: GeoImagery. Data retrieved October, 2020.

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X)
- Future Conditions 1% Annual Chance Flood Hazard (Zone X)
- Area with Reduced Flood Risk due to Levee. See Notes. (Zone X)
- Area with Flood Risk due to Levee (Zone D)

OTHER AREAS

- No SCREEN
- Area of Minimal Flood Hazard (Zone X)
- Effective LOMIRs
- Area of Undetermined Flood Hazard (Zone X)

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/13/2020 at 10:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

West Street and Cherry Street - Multiple Parcels
July 26, 2021

ID	Address Number	Street Name	Owner Name	Owner Name 2	Owner Address 1	Owner City	Owner State	Owner Zip
057.0-0042-0000.0 50		CHERRY STREET	CALAPAI JR GEORGE V	CALAPAI FRANCES H	50 CHERRY STREET	NORTHBOROUGH	MA	01532
057.0-0036-0000.0 67		CHERRY STREET	COOK MITCHELL S	BOLG JULEE R	67 CHERRY STREET	NORTHBOROUGH	MA	01532
057.0-0049-0000.0 0		WEST STREET	VINER BRANT L	HARLING MARGARET	PO BOX 295	ELLSWORTH	ME	04605
057.0-0033-0000.0 0		WEST STREET	COMMONWEALTH OF MASS/DCR	OFFICE OF DAM SAFETY	251 CAUSEWAY STREET 7th Floor	BOSTON	MA	02114
057.0-0043-0000.0 0		WEST STREET	COMMONWEALTH OF MASS/DCR	OFFICE OF DAM SAFETY	251 CAUSEWAY STREET 7th Floor	BOSTON	MA	02114
056.0-0052-0000.0 0		WEST STREET	TOWN OF NORTHBOROUGH	CONSERVATION COMMISSION	63 MAIN STREET	NORTHBOROUGH	MA	01532
043.0-0053-0000.0 0		WEST STREET	TAFT ROBERT AND	TAFT RICHARD	31 WEST STREET	NORTHBOROUGH	MA	01532
043.0-0002-0000.0 16		WEST STREET	GALLAGHER THOMAS AND	GALLAGHER KIMBERLEY M	16 WEST STREET	NORTHBOROUGH	MA	01532
043.0-0001-0000.0 20		WEST STREET	KNOX ROBERT J AND	KNOX PATRICIA A	20 WEST STREET	NORTHBOROUGH	MA	01532
056.0-0045-0000.0 31		WEST STREET	TAFT ROBERT L AND	TAFT ANNEMARIE	22 LONGFELLOW ROAD	SHREWSBURY	MA	01545
056.0-0046-0000.0 35		WEST STREET	DERBY DANIEL AND	DERBY BRENDA	35 WEST STREET	NORTHBOROUGH	MA	01532
056.0-0047-0000.0 39		WEST STREET	MCPHEE JOSEPH F AND	MCPHEE MARY ELLEN	39 WEST STREET	NORTHBOROUGH	MA	01532
056.0-0048-0000.0 43		WEST STREET	DOWD ANDREW T	DOWD BARBARA J SARGENT	43 WEST STREET	NORTHBOROUGH	MA	01532
056.0-0049-0000.0 47		WEST STREET	TONELLI PETER A J		271 TURNPIKE ROAD	WESTBOROUGH	MA	01581
056.0-0050-0000.0 55		WEST STREET	NIKOPOULOS LAURA	NIKOPOULOS JOHN	55 WEST STREET	NORTHBOROUGH	MA	01532
056.0-0051-0000.0 65		WEST STREET	BAEVSKY MATTHEW F	MARKSON MARJORIE E	65 WEST STREET	NORTHBOROUGH	MA	01532
057.0-0034-0000.0 85		WEST STREET	CREIGHTON KRISTIN	GRINOLD IAN MATTHEW	85 WEST STREET	NORTHBOROUGH	MA	01532
057.0-0035-0000.0 95		WEST STREET	VINER BRANT L	HARLING MARGARET	PO BOX 295	ELLSWORTH	ME	04605

Notification to Abutters Under the
Massachusetts Wetlands Protection Act and Town of Northborough Wetlands bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131 Section 40, you are hereby notified of the following.

- A. The name of the applicant is: **Brant and Margaret Viner**
- B. The applicant has filed a Notice of Intent with the Conservation Commission for the municipality of **Northborough** seeking permission to work (extension of existing 8" waterline within West Street up to the Cherry Street intersection) a portion of which is within the 100' wetland buffer zone, an Area Subject to Protection Under the Wetlands Protection Act (General laws Chapter 131, Section 40) and Town of Northborough Wetlands By-law and regulations. No work is proposed within a resource area.
- C. The address of the lot where the activity is proposed is:
West Street, from approximately #20 West Street up to Cherry Street
- D. Copies of the Notice of Intent may be examined at the **Northborough Conservation Commission** between the hours of **8:00 AM - 4:00 PM** on the following days of the week: **Monday, Wednesday & Thursday: Tuesday (8:00 AM - 7:00 PM): Friday (7:00 AM - 12:00 PM)**

For more information, call: (508) 393-5015

Check One: This is the applicant ____, representative ____, or other X (specify): Conservation Commission.

- E. Copies of the Notice of Intent may be obtained from either (check one) the applicant ____, or the applicant's representative X, at the cost of reproduction, by calling this telephone number (508)366-6552 between the hours of 8:00 AM and 4:30 PM on the following days of the week: Monday through Friday.
- F. Information regarding the date, time and place of the public hearing may be obtained from the **Northborough Conservation Commission** by calling this telephone number (508)393-5015.

Note: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Worcester Telegram & Gazette.**

Note: Notice of the public hearing, including its date, time, and place, will be posted in the City of Town hall not less than forty-eight (48) hours in advance.

Note: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

Central Region: 508-792-7650	Northeast Region: 978-661-7600
Southeast Region: 508-946-2800	Western Region: 413-784-1100

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 - Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:247-1189
eDEP Transaction #:1277023
City/Town:NORTHBOROUGH



A. General Information

1. Conservation Commission NORTHBOROUGH

2. Issuance a. OOC b. Amended OOC

Bk: 65093 Pg: 217
Page: 1 of 29 05/04/2021 03:40 PM WD

3. Applicant Details

a. First Name BRANT AND MARGARET b. Last Name VINER AND HARLING

c. Organization

d. Mailing Address PO BOX 295

e. City/Town ELLSWORTH f. State ME g. Zip Code 04605

4. Property Owner

a. First Name b. Last Name

c. Organization

d. Mailing Address

e. City/Town f. State g. Zip Code

5. Project Location

a. Street Address 85 & 95 WEST STREET

b. City/Town NORTHBOROUGH c. Zip Code 01532

d. Assessors Map/Plat# 57 e. Parcel/Lot# 34 & 35

f. Latitude 42.32368N g. Longitude 71.67065W

6. Property recorded at the Registry of Deed for:

a. County b. Certificate c. Book d. Page

WORCESTER 15417 232

7. Dates

a. Date NOI Filed : 11/27/2020 b. Date Public Hearing Closed: 4/15/2021 c. Date Of Issuance: 5/4/2021

8. Final Approved Plans and Other Documents

a. Plan Title: b. Plan Prepared by: c. Plan Signed/Stamped by: d. Revised Final Date: e. Scale:

SITE PLANS FOR
COMMON DRIVE
SPECIAL PERMIT
FOR BRANT L.
VINE AND
MARGARET
HARLING 85 & 95
WEST STREET,
NORTHBOROUGH,
MASSACHUSETTS

GREG SCOTCHIE,
P.E.

WDA DESIGN GROUP

4/14/2021

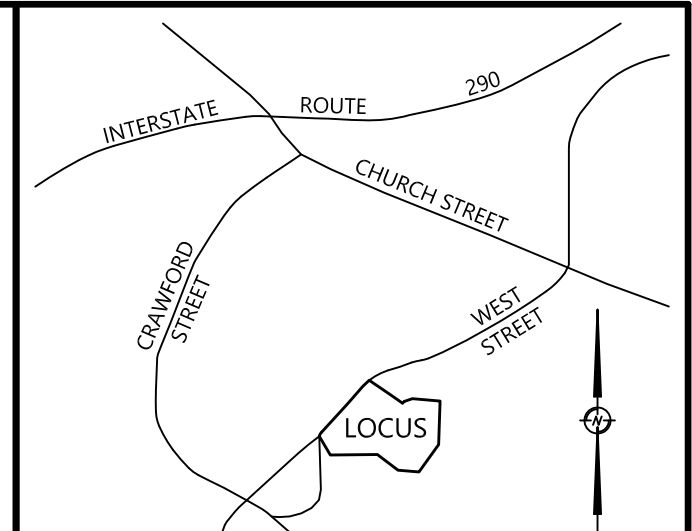
VARIOUS

LEGEND:

DESCRIPTION	EXISTING
BOUNDARY OF BORDERING VEGETATED WETLANDS	RBVW
BUILDING	CLE
CHAIN LINK FENCE	350
CONTOUR LINE	CMP
CORRUGATED METAL PIPE	
DOOR	DH
DRILL HOLE	EH
EDGE OF PAVEMENT	EM
ELECTRIC METER	FH
FEET HIGH	(FND)
FOUND	GW
GUY WIRE	GWZ
GROUNDWATER OVERLAY	
INVERT	INV
IRON ROD	IR
LIGHT POLE	LP
NOT TO SCALE	N.T.S.
NOW OR FORMERLY	N/F
OVERHEAD WIRE	OHW
PLUS OR MINUS	±
POST AND RAIL FENCE	PRF
SIGN	S
SPOT ELEVATION	X 350.25
STONE RETAINING WALL	SRW
STONE WALL	
TEST PIT	TP
TREELINE	(TYP)
TYPICAL	(TYP)
UTILITY POLE	UP
WELL	WF 15
WETLAND FLAG	
WETLANDS	100' RBVW BZ
WETLANDS 100' BUFFER ZONE	

NOTES:

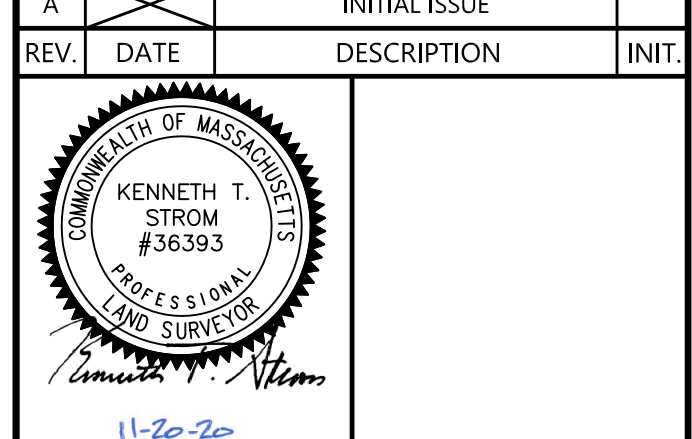
- EXISTING CONDITIONS INFORMATION IS BASED ON AN ON THE GROUND FIELD SURVEY BY WDA DESIGN GROUP, INC., IN MAY, 2018 AND OCTOBER, 2020. ELEVATIONS ARE BASED ON NAVD 1988. COORDINATE SYSTEM IS BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND ARE APPROXIMATE AND ASSUMED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITIES PRESENT AT THE SITE THAT ARE NOT DEPICTED HEREON. BEFORE COMMENCING SITE WORK, CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY DEPARTMENTS / COMPANIES OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. ANY COSTS RELATED TO THE REPAIR OF UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE PERFORMED UNTIL ALL UTILITY COMPANIES HAVE BEEN NOTIFIED.
- APPROXIMATE LIMITS OF ZONE A (AREAS OF 100-YEAR FLOOD) AND ZONE C (AREAS OF MINIMAL FLOODING) EXIST WITHIN THE LOCUS PARCEL AS COMPILED FROM NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 25027C0633F, WORCESTER COUNTY, EFFECTIVE JULY 16, 2014.
- ON-SITE WETLAND BOUNDARIES DELINEATED BY WDA-DG ON APRIL 27, 2018, AND BOUNDARIES CONFIRMED VIA ORAD ISSUED BY THE NCC DATED AUGUST 21, 2018, DEP FILE #241-1150.
- WETLAND BOUNDARIES ALONG WEST STREET DELINEATED BY WDA-DG OCTOBER 2020. LOCATIONS TO BE CONFIRMED VIA NOTICE OF INTENT WITH NORTHBOROUGH CONSERVATION COMMISSION.



LOCUS MAP (NOT TO SCALE)

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REV.	DATE	DESCRIPTION	INIT.
A		INITIAL ISSUE	



PREPARED BY:



31 EAST MAIN STREET WESTBOROUGH, MA | 508.366.6552
7 CENTRAL STREET PROVIDENCE, RI | 401.274.1360
WDA-DG.COM

OWNER:

BRANT L. VINER & MARGARET HARLING

P.O. Box 295
Ellsworth, ME 04605

PREPARED FOR:

BRANT L. VINER & MARGARET HARLING

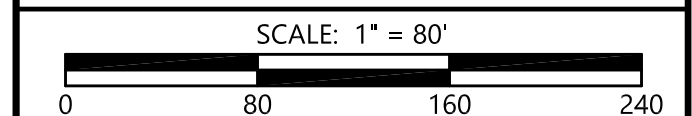
P.O. Box 295
Ellsworth, ME 04605

TITLE:

EXISTING CONDITIONS PLAN

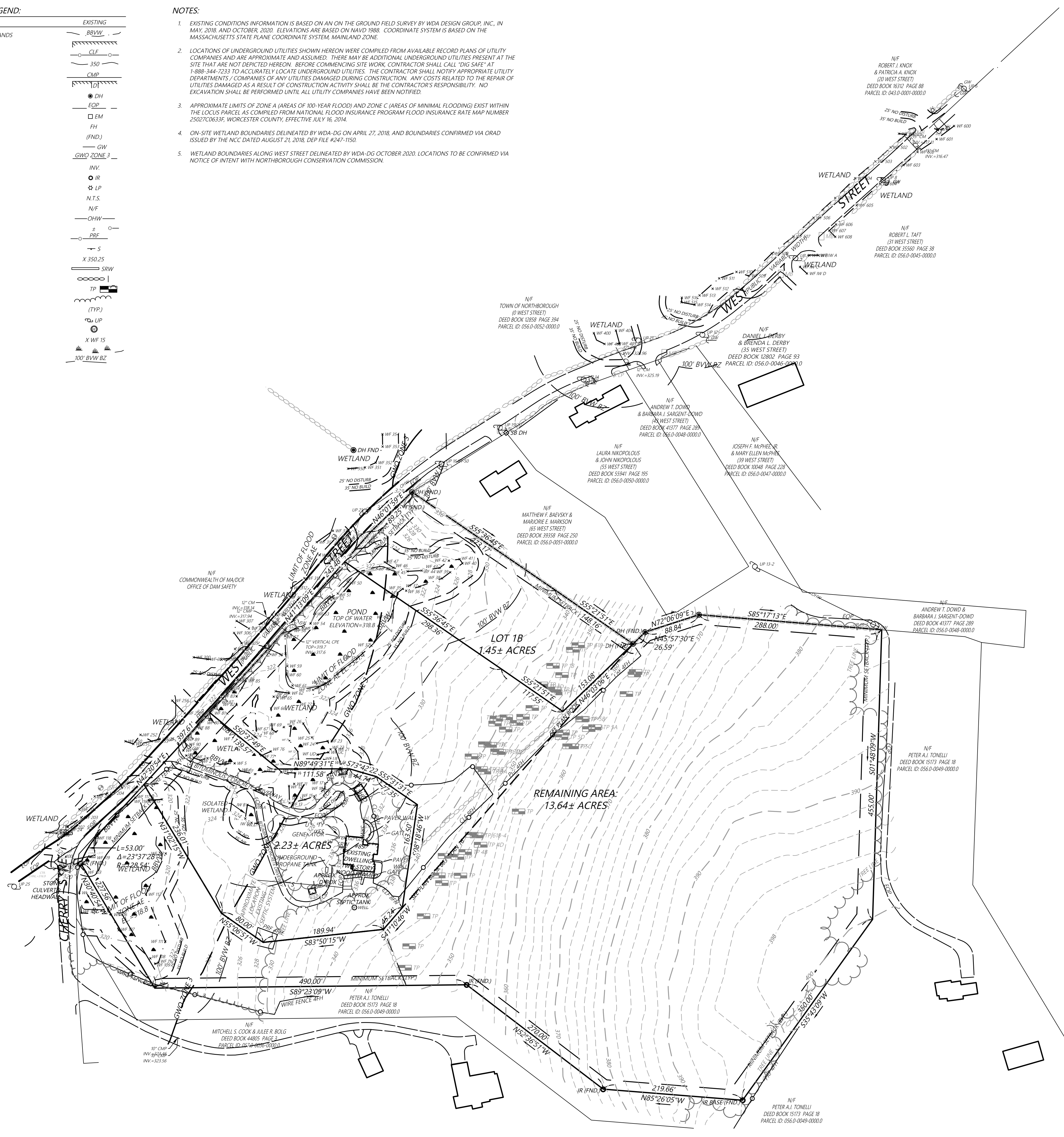
WEST STREET AND 85 & 95 WEST STREET
Northborough, MA
(Worcester County)

ROADWAY TOPOGRAPHY



JOB NO.:	1207	DATE:	12/10/20
DWN. BY:	JRZ/KTS	SHEET:	
CHK'D. BY:	SPC/KTS		

EC-80



OWNERS OF RECORD:
BRANT L. VINER & MARGARET HARLING
PO BOX 295
ELLSWORTH, ME 04605

TOWN OF NORTHBOROUGH
DEPARTMENT OF PUBLIC WORKS
63 MAIN STREET
NORTHBOROUGH, MA 01532

ASSESSORS MAP REFERENCE:
PARCEL ID: 057.0-0034 and 35-0000.0
PARCEL ID: 057.0-0036
PARCEL ID: 057.0-0033
PARCEL ID: 057.0-0049
PARCEL ID: 057.0-0043
PARCEL ID: 056.0-0052
PARCEL ID: 043.0-0053
PARCEL ID: 043.0-0002
PARCEL ID: 043.0-0001
PARCEL ID: 056.0-0045
PARCEL ID: 056.0-0046
PARCEL ID: 056.0-0047
PARCEL ID: 056.0-0048
PARCEL ID: 056.0-0049
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PARCEL ID: 056.0-0051
PARCEL ID: 057.0-0034
PARCEL ID: 057.0-0035

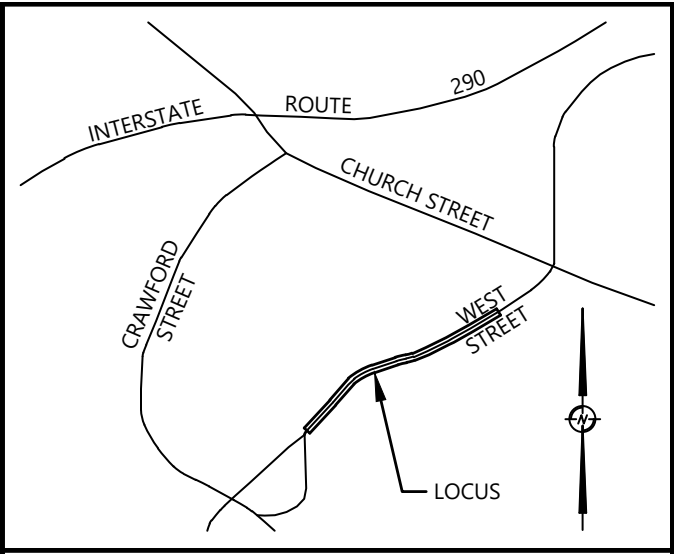
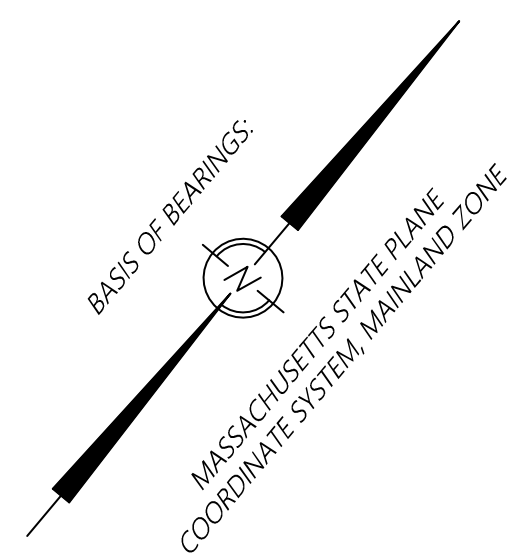
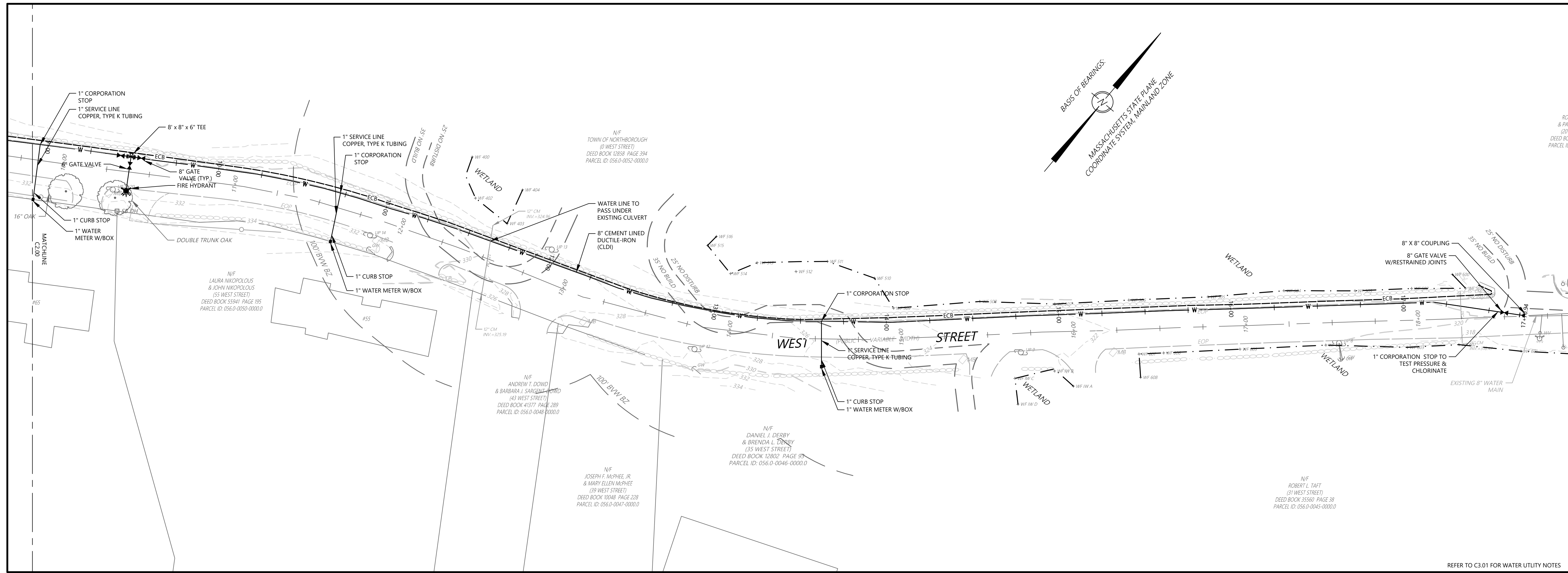
DEED REFERENCE:
DEED BOOK 15417 PAGE 232

PLAN REFERENCES:
PLAN BOOK 953 PLAN 49
PLAN BOOK 438 PLAN 122
PLAN BOOK 663 PLAN 16

FIRM CLASSIFICATION:
FLOOD INSURANCE RATE MAP
NUMBER 25027C0633F
EFFECTIVE JULY 16, 2014

ZONING CLASSIFICATION:
RB / RESIDENCE B

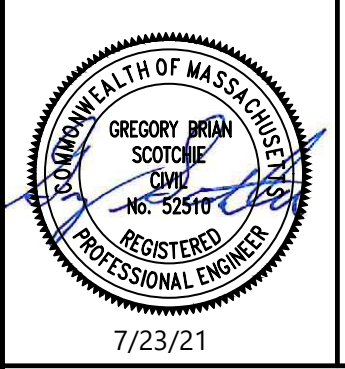
MINIMUM LOT AREA:	40,000 S.F.
MINIMUM LOT FRONTAGE:	150 FEET
MINIMUM LOT WIDTH:	150 FEET
MINIMUM FRONT YARD:	30 FEET
MINIMUM SIDE YARD:	15 FEET
MINIMUM REAR YARD:	25 FEET



LOCUS MAP
N.T.S.

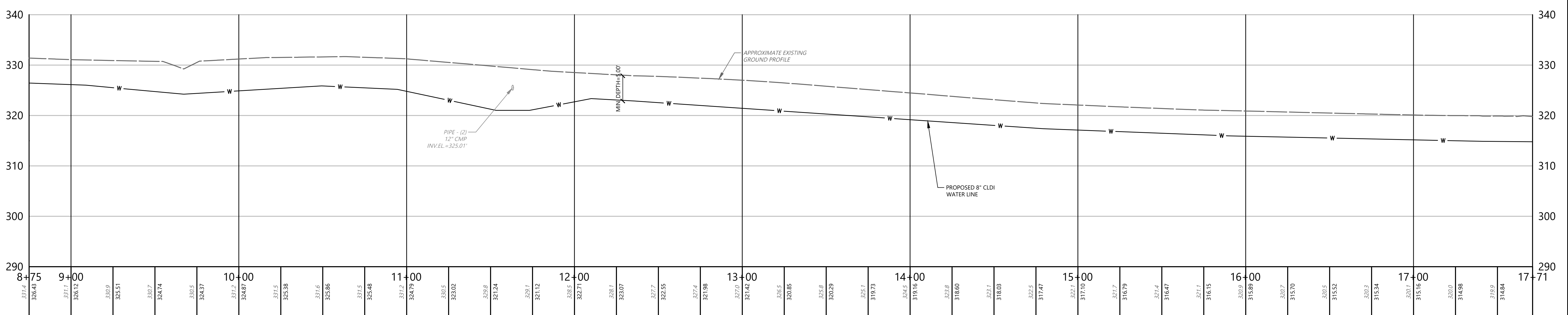
THIS DOCUMENT, AS AN INSTRUMENT OF SERVICE, IS THE SOLE PROPERTY OF WDA DESIGN GROUP, INC. ITS USE BY THE OWNER FOR OTHER PROJECTS OR FOR COMPLETION OF THIS PROJECT BY OTHERS IS STRICTLY FORBIDDEN. DISTRIBUTION IN CONNECTION WITH THIS PROJECT SHALL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF WDA DESIGN GROUP'S RIGHTS. ©2021, WDA DESIGN GROUP, INC.

REV.	DATE	DESCRIPTION	INIT.
B	7/23/21	TOWN COMMENTS	
A		INITIAL ISSUE	GBS



WATER MAIN 8+75 TO 17+63.85

WATER LINE PROFILE



STATION
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=10'

ALL PIPES AND FITTINGS SHALL HAVE NO LESS THAN FIVE (5) AND NO MORE THAN SIX (6) FEET OF COVER UNLESS OTHERWISE APPROVED BY THE DEPARTMENT.

PREPARED BY:

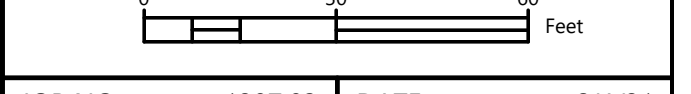
31 EAST MAIN STREET WESTBOROUGH, MA
508.366.6552
WDA-DG.COM

OWNER:
Brant L. Viner & Margaret Harling
P.O. Box 295
Ellsworth, ME 04605

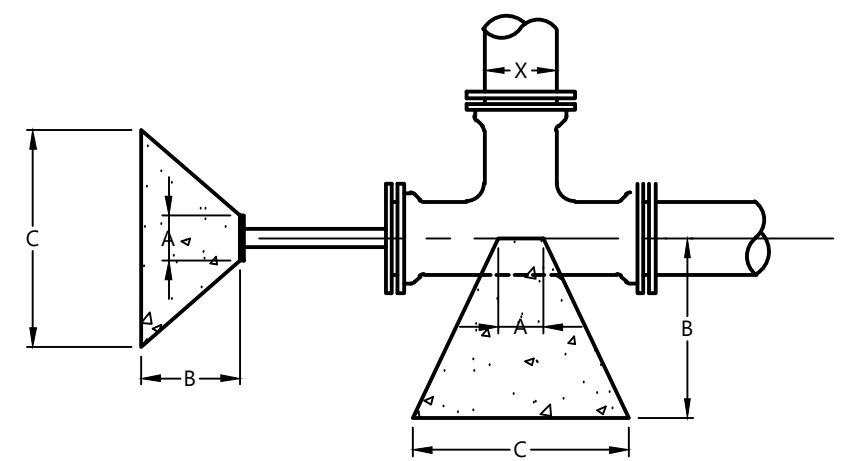
PREPARED FOR:
Brant L. Viner & Margaret Harling
P.O. Box 295
Ellsworth, ME 04605

TITLE:
WATER LINE PLAN AND PROFILE
WEST STREET WATERLINE EXTENSION
85 & 95 West Street
Northborough, MA 01532
(Worcester County)

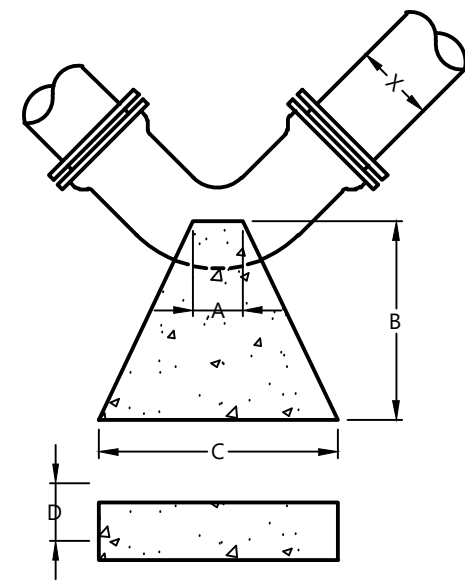
NOTICE OF INTENT



JOB NO.:	1207.03	DATE:	6/4/21
DWN. BY:	GBS	SHEET:	C2.01
CHK'D. BY:	BPW/JRW		



BLOCKING DIMENSIONS					BLOCKING DIMENSIONS				
X	A	B	C	D	X	A	B	C	D
TEES 16" RUN					TEES 10" RUN				
16"	12"	3'-0"	3'-8"	3'-8"	10"	10"	2'-6"	2'-6"	2'-3"
12"	10"	2'-6"	2'-9"	2'-9"	8"	10"	2'-0"	1'-9"	2'-0"
10"	10"	2'-6"	2'-6"	2'-3"	6"	8"	2'-0"	1'-4"	1'-6"
8"	10"	2'-0"	1'-9"	2'-0"	TEES 8" RUN				
6"	8"	2'-0"	1'-4"	1'-6"	8"	10"	2'-0"	1'-9"	2'-0"
TEES 12" RUN					TEES 6" RUN				
12"	10"	2'-6"	2'-9"	2'-9"	6"	8"	2'-0"	1'-4"	1'-6"
10"	10"	2'-6"	2'-6"	2'-3"					
8"	10"	2'-0"	1'-9"	2'-0"					
6"	8"	2'-0"	1'-4"	1'-6"					



BLOCKING DIMENSIONS					BLOCKING DIMENSIONS				
X	A	B	C	D	X	A	B	C	D
90° BENDS					22.5° BENDS				
16"	14"	3'-0"	4'-6"	4'-3"	16"	12"	2'-6"	2'-4"	2'-4"
12"	12"	2'-6"	3'-4"	3'-4"	12"	8"	2'-0"	1'-9"	1'-9"
10"	8"	2'-6"	3'-0"	2'-6"	10"	8"	2'-0"	1'-6"	1'-6"
8"	8"	2'-0"	2'-6"	2'-0"	8"	6"	2'-0"	1'-3"	1'-3"
6"	6"	2'-0"	1'-10"	1'-6"	6"	6"	1'-6"	1'-0"	1'-0"
45° BENDS					11.25° BENDS				
16"	14"	3'-0"	3'-6"	4'-3"	16"	8"	2'-0"	1'-8"	1'-8"
12"	12"	2'-6"	2'-6"	3'-4"	12"	6"	2'-0"	1'-3"	1'-3"
10"	8"	2'-6"	2'-3"	2'-6"	10"	6"	1'-6"	1'-0"	1'-0"
8"	8"	2'-0"	1'-8"	2'-0"	8"	6"	1'-6"	1'-0"	1'-0"
6"	6"	2'-0"	1'-3"	1'-6"	6"	6"	1'-6"	1'-0"	1'-0"

WATER MAIN BLOCKING

N.T.S.

02510-14

WATER SERVICE CONNECTION

N.T.S.

02500-04

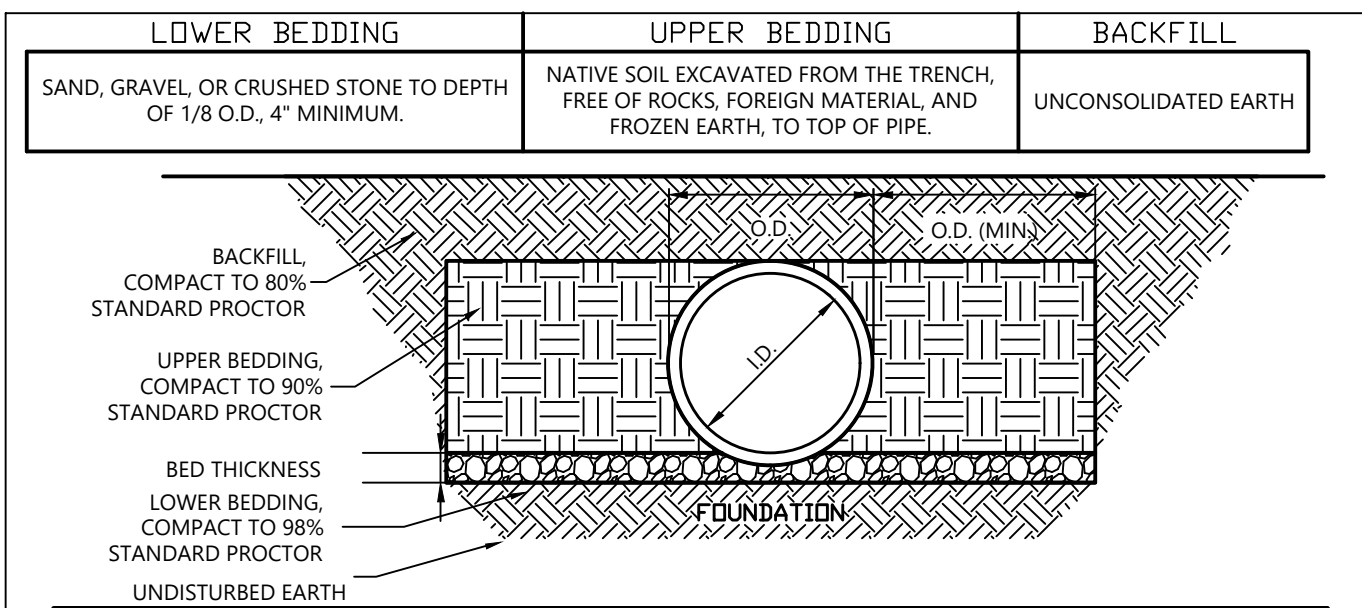
WDA, INC.

WATER MAIN TRENCH SECTION

N.T.S.

02510-03

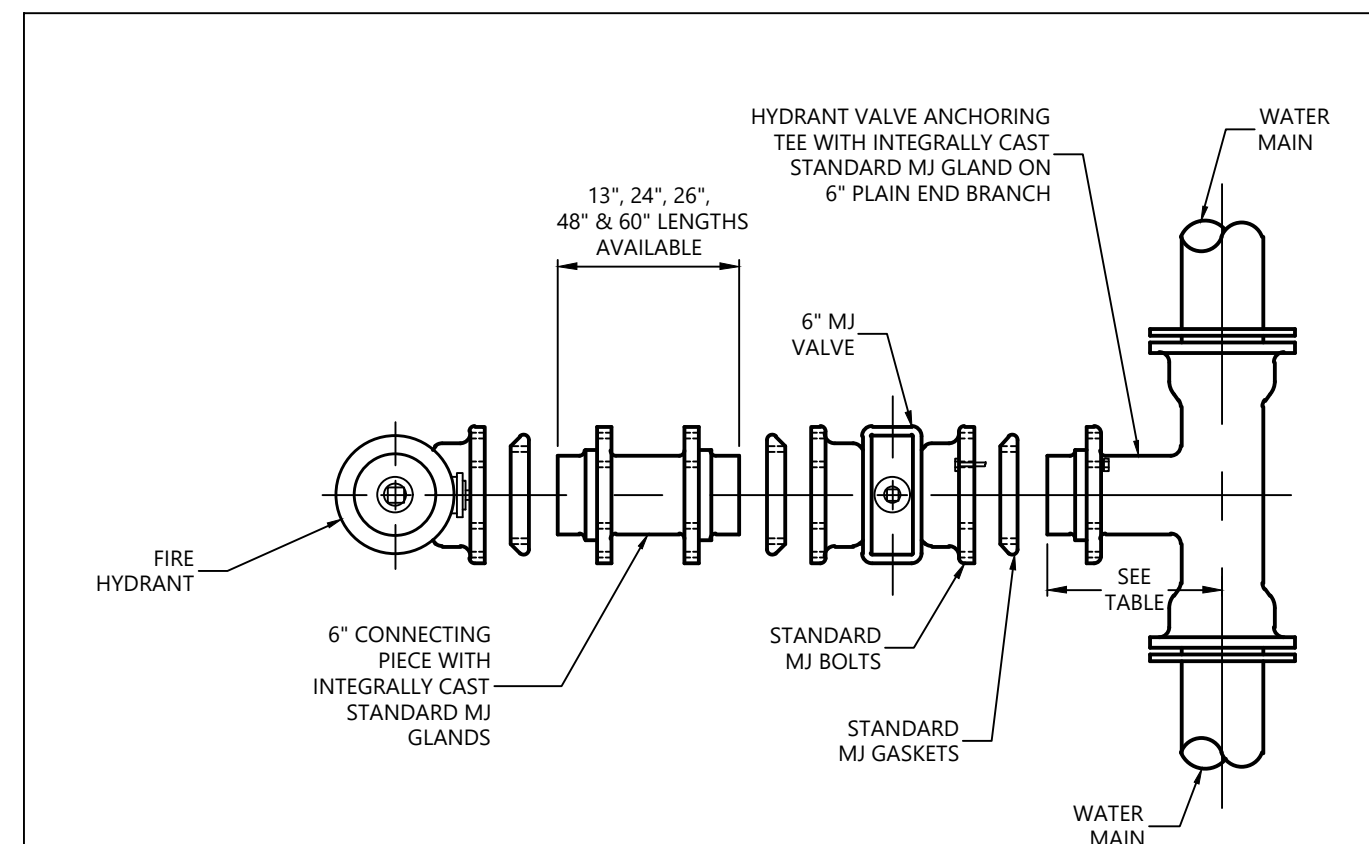
WDA, INC.



PIPE BEDDING

N.T.S.

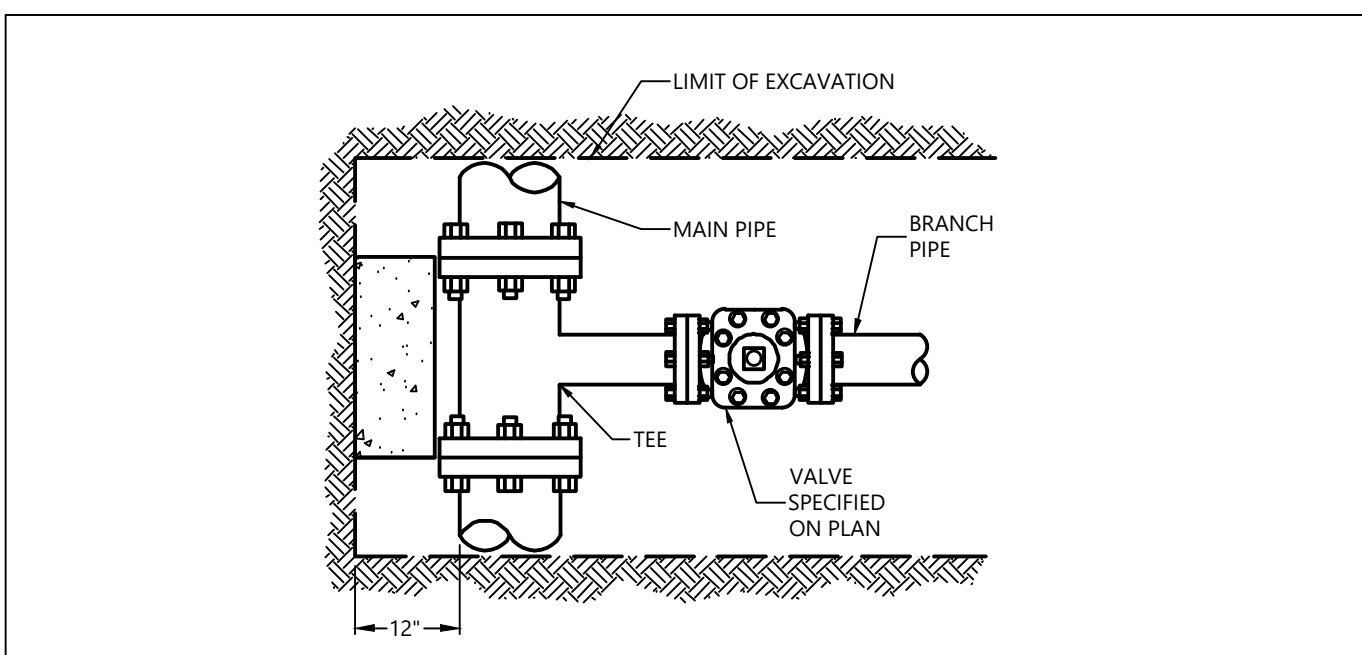
02510-11



HYDRANT ASSEMBLY

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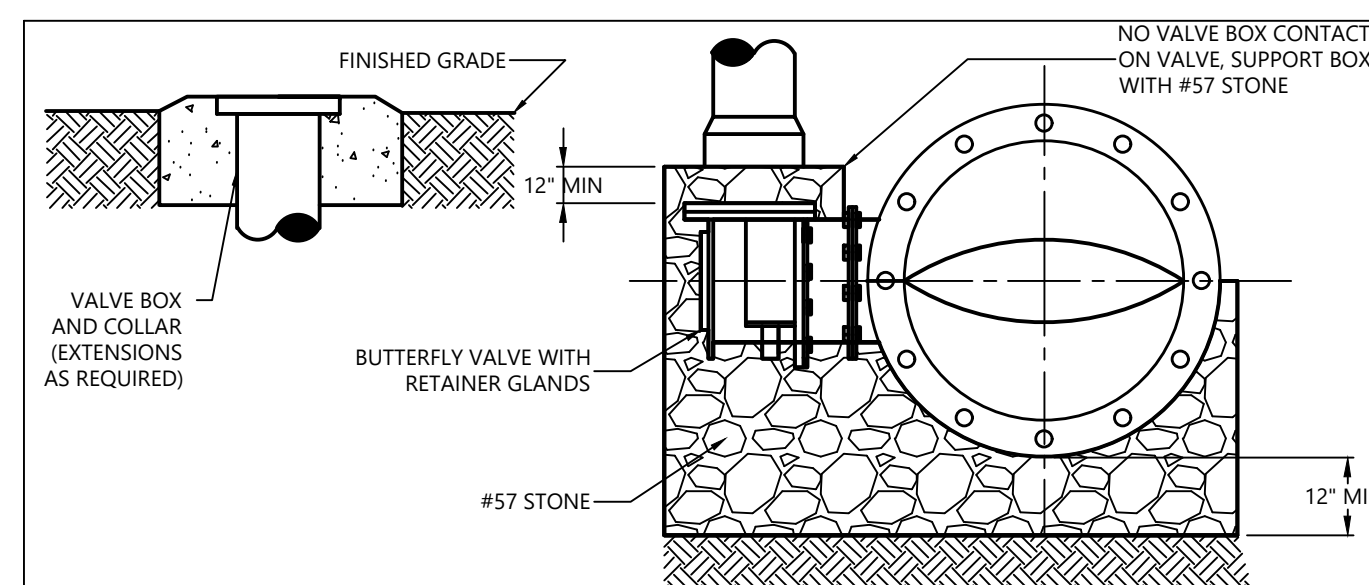
02510-13



BRANCH LINE & VALVE

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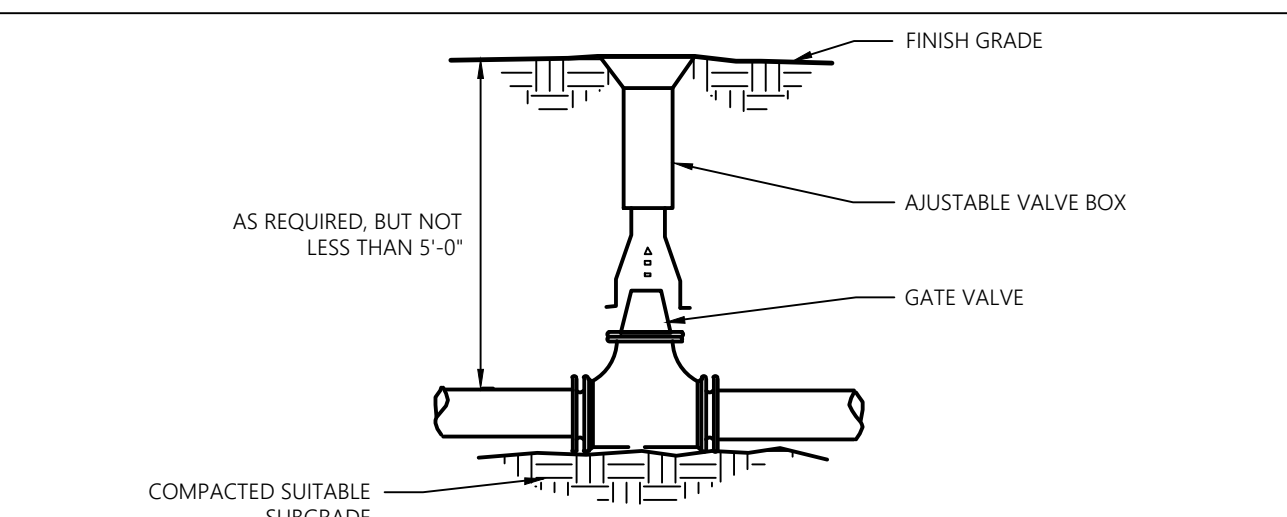
02510-09



GATE VALVE INSTALLATION

N.T.S.

02510-10

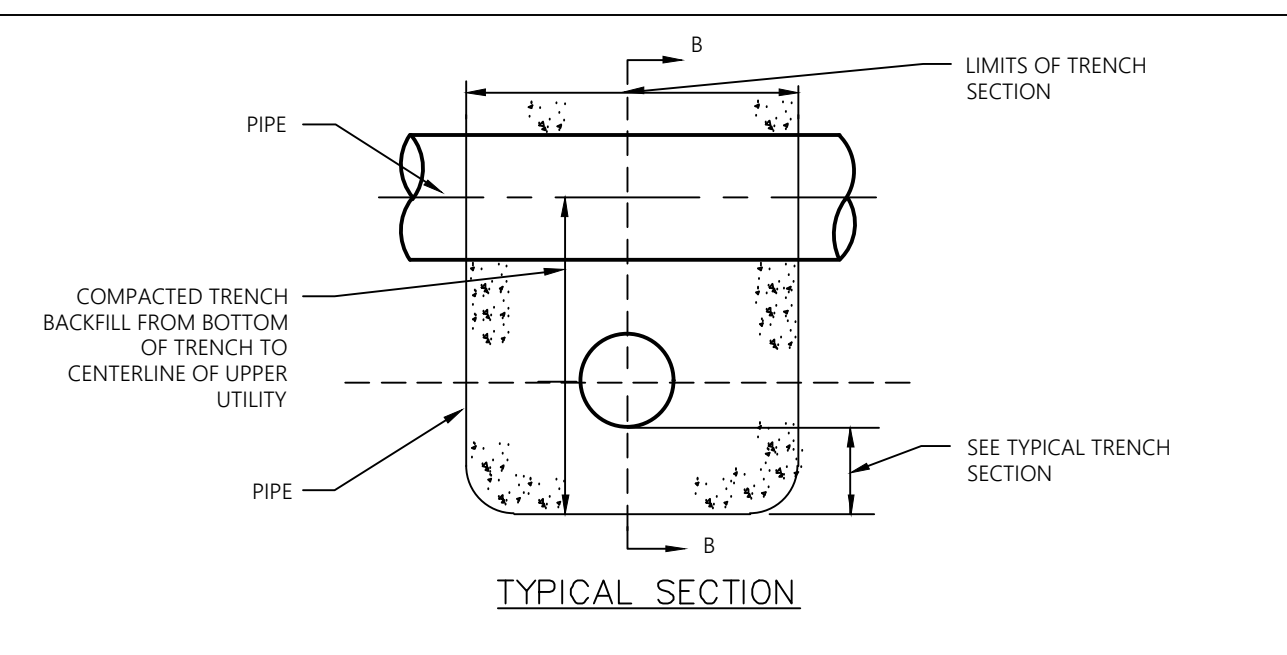


WATER GATE VALVE (WG)

N.T.S.

02510-01

WDA, INC.

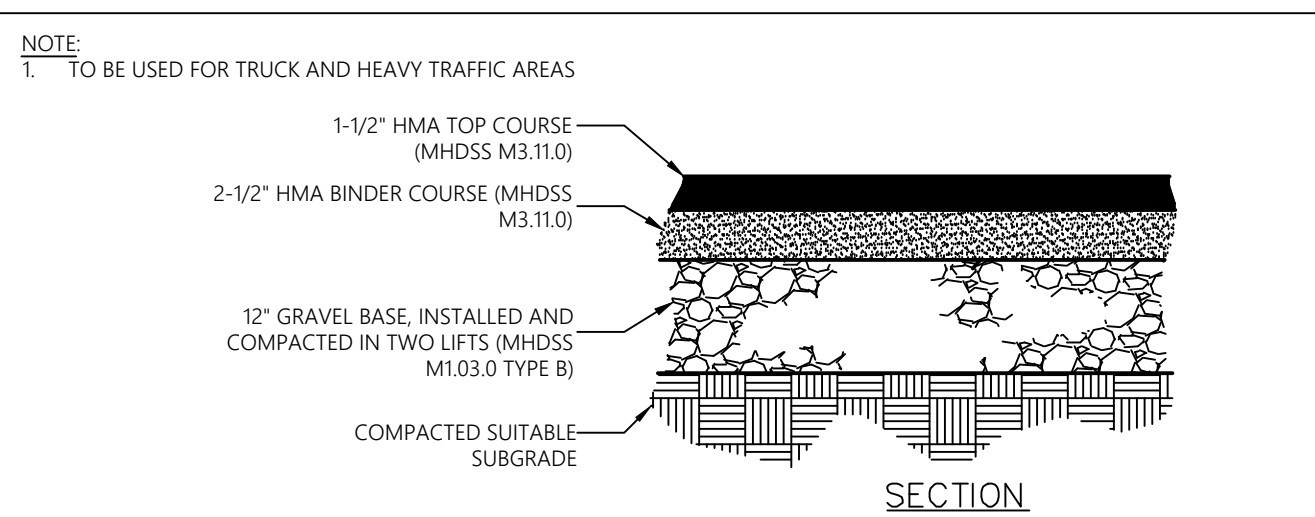


UTILITIES CROSSING

N.T.S.

02500-03

WDA, INC.

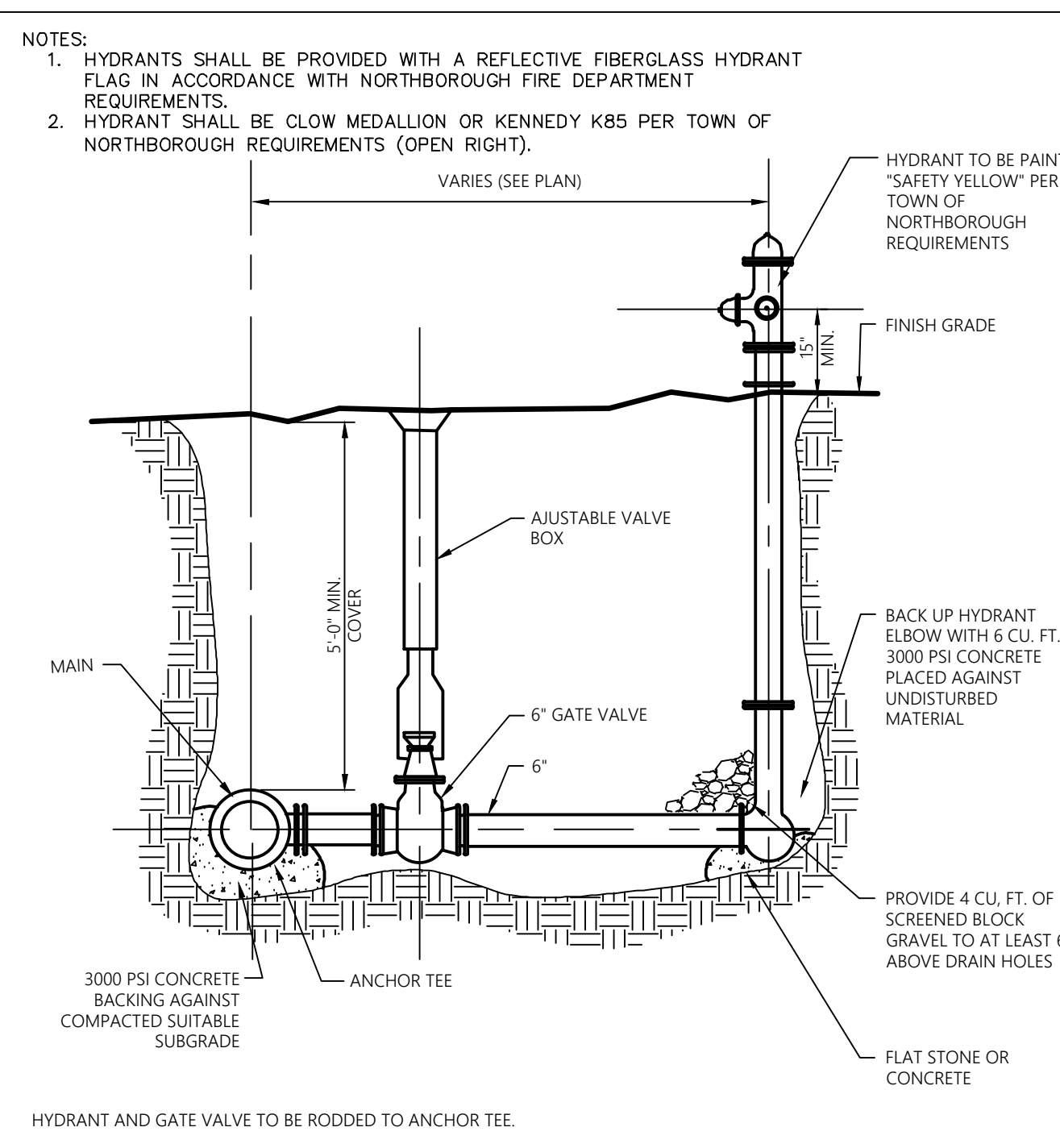


HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT

N.T.S.

02700-08

WDA, INC.

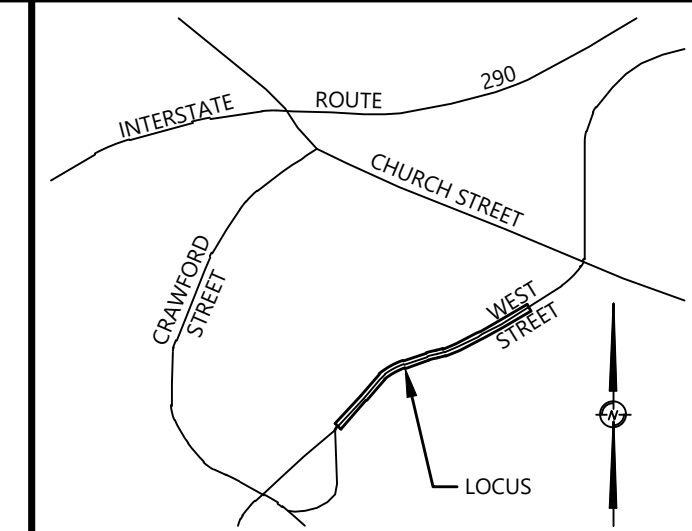


HYDRANT AND VALVE (HYD)

N.T.S.

02510-02

WDA, INC.

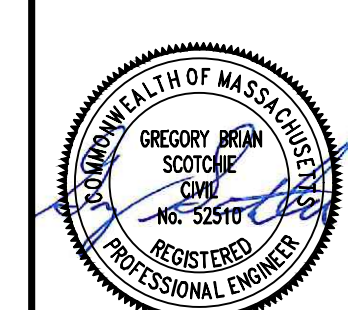


LOCUS MAP

N.T.S.

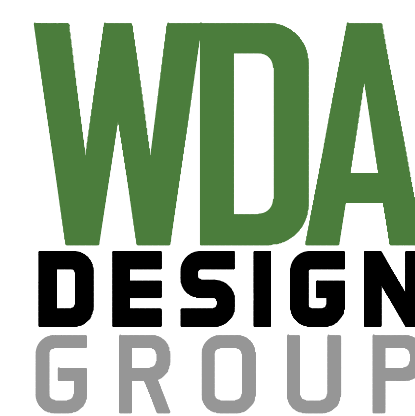
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REV.	DATE	DESCRIPTION	INIT.
B	7/23/21	NO CHANGES	
A		INITIAL ISSUE	GBS



7/23/21

PREPARED BY:



31 EAST MAIN STREET WESTBOROUGH, MA 01581.366.6552 WDA-DG.COM

OWNER:

Brant L. Viner & Margaret Harling
P.O. Box 295
Ellsworth, ME 04605

PREPARED FOR:

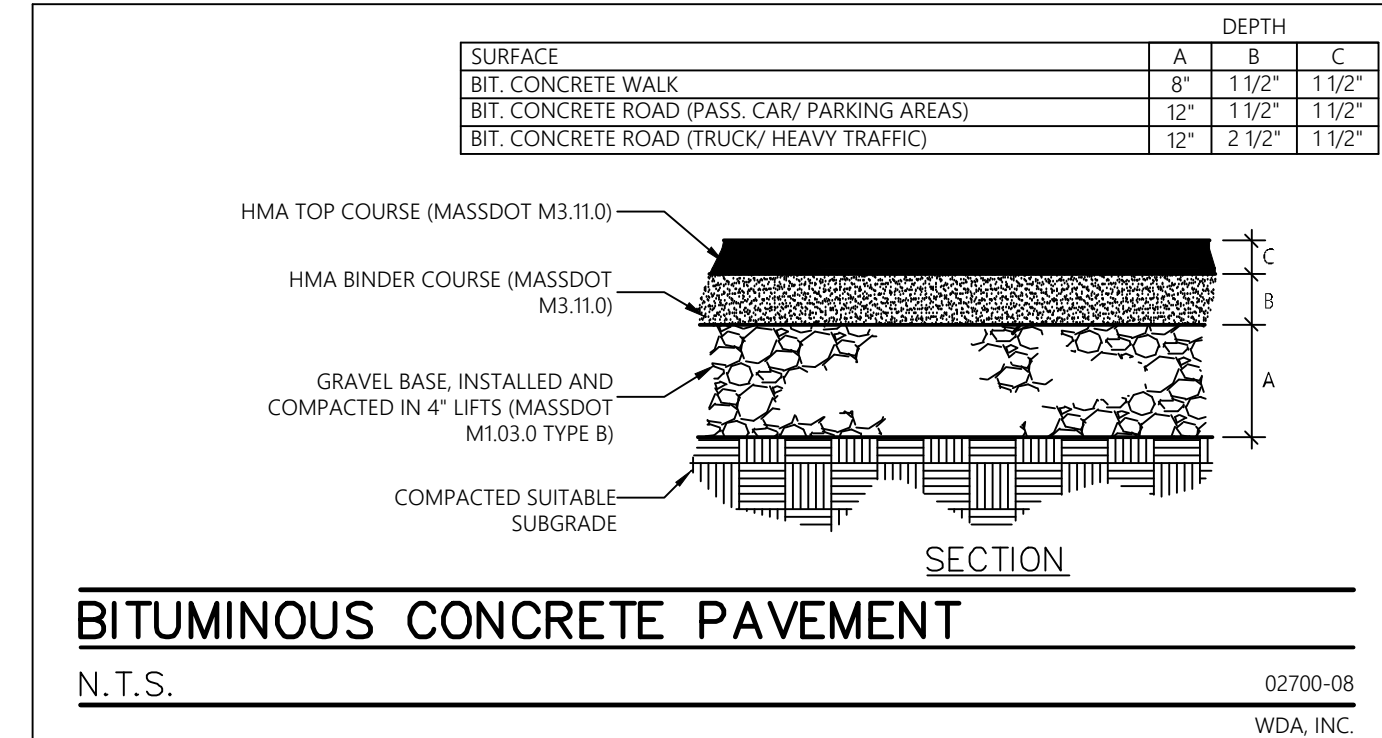
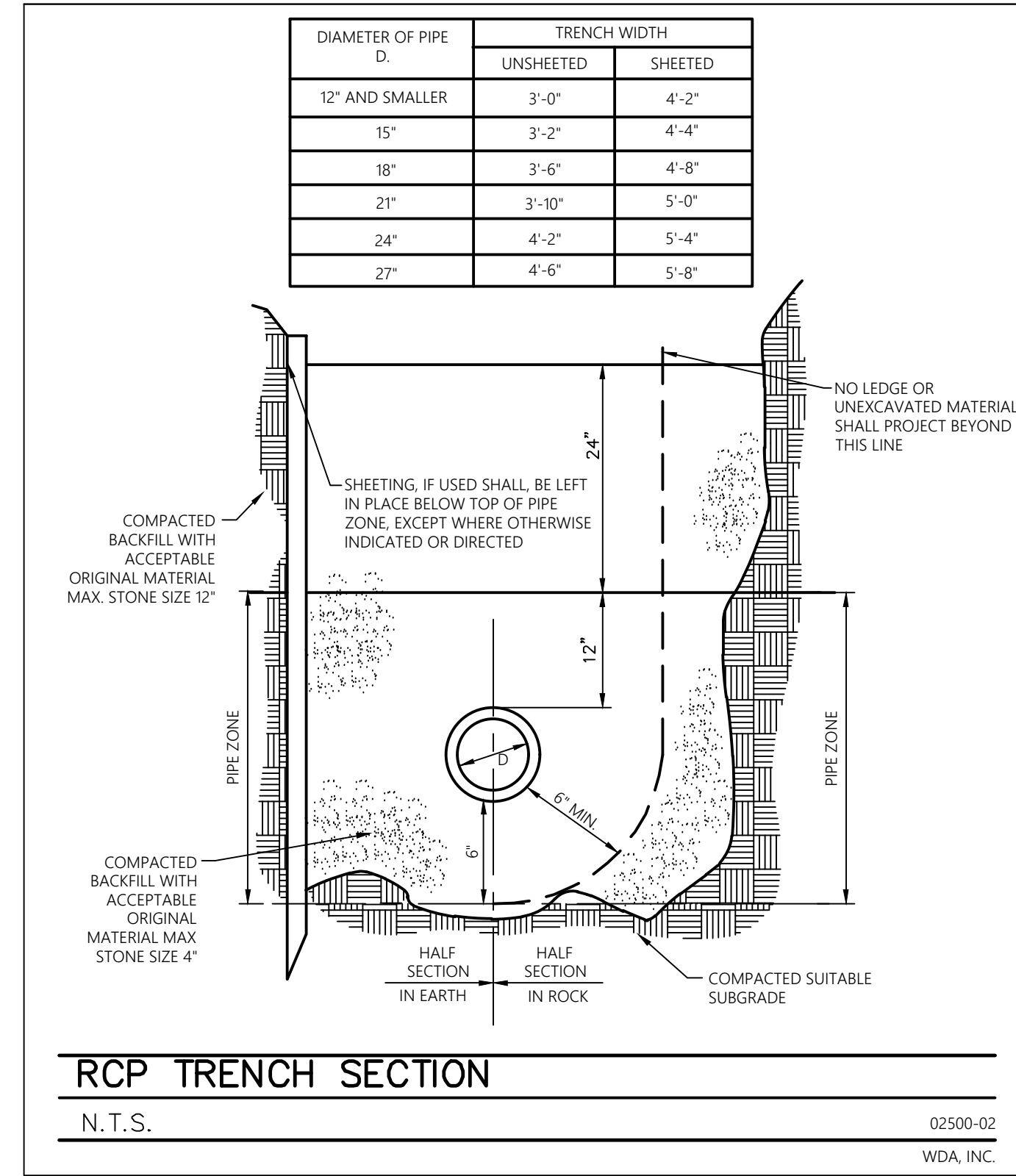
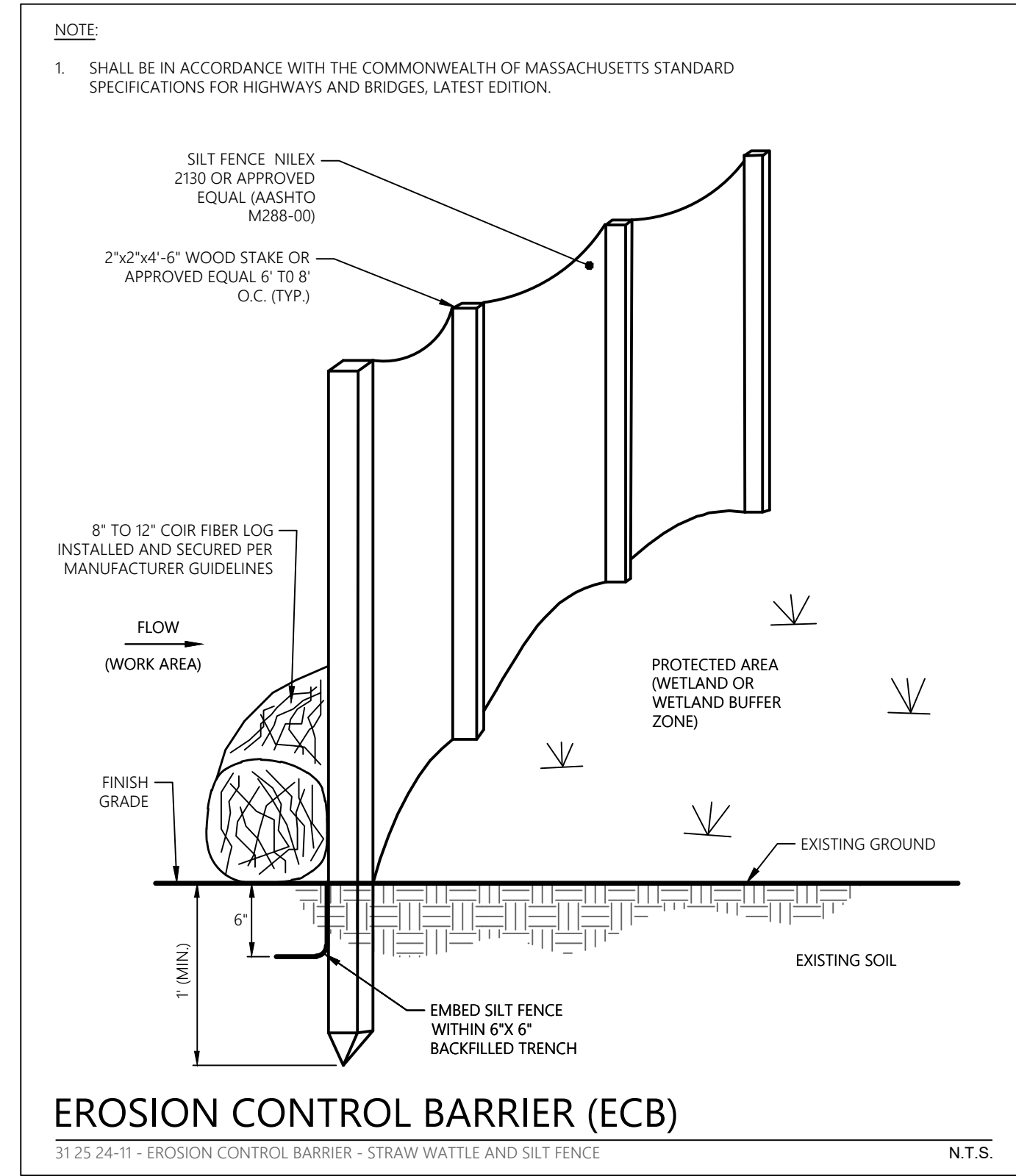
Brant L. Viner & Margaret Harling
P.O. Box 295
Ellsworth, ME 04605

TITLE:

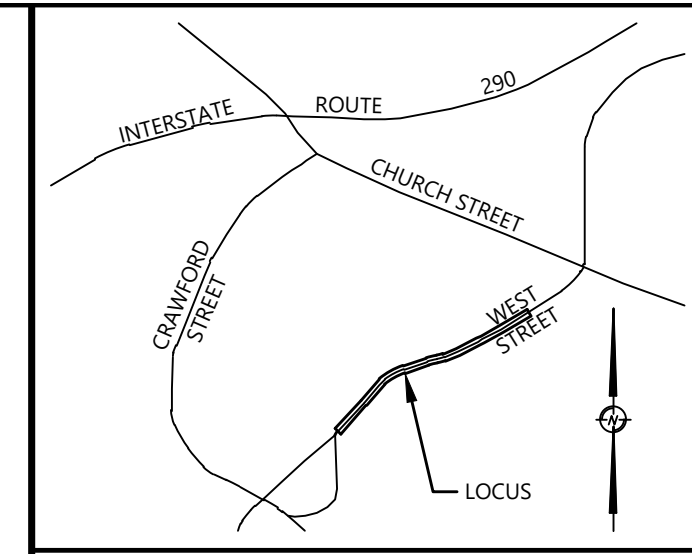
CONSTRUCTION DETAILS
WEST STREET WATERLINE EXTENSION
85 & 95 West Street
Northborough, MA 01532 (Worcester County)

NOTICE OF INTENT

JOB NO.:	1207.03	DATE:	6/4/21
DWN. BY:	GBS	SHEET:	C3.00
CHK'D. BY:	BPW/RW		



- NOTES**
- GENERAL REQUIREMENTS
- ATTENTION IS DIRECTED TO THE REGULATIONS FOR USERS OF THE NORTHBOROUGH WATER SUPPLY AND DISTRIBUTION SYSTEM AND IS HEREBY MADE A PART OF THESE SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR A WORKING KNOWLEDGE OF THE REQUIREMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT PRIOR TO BEGINNING ANY WORK.
 - ALL APPLICATIONS AND FEES TO THE DEPARTMENT SHALL HAVE BEEN COMPLETED AND SUBMITTED TO AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY WORK. A PROPERLY PREPARED, UP-TO DATE SCALED DRAWING OF THE PROPOSED WORK SHALL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND COMMENT.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT DIG SAFE AND THE DEPARTMENT AND ALL OTHER APPLICABLE UTILITIES AT LEAST 72 HOURS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION.
 - IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT / CONTRACTOR TO OBTAIN AND COMPLY WITH ALL THE REQUIREMENTS OF THE APPLICABLE ROAD OPENING PERMITS.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THESE SPECIFICATIONS, THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION GUIDELINES FOR PUBLIC WATER SYSTEMS, AND STANDARD INDUSTRY PRACTICES AND METHODS. ALL MATERIALS TO BE USED AS PART OF THE WATER DISTRIBUTION SYSTEM OR CONNECTIONS THERETO, SHALL MEET THE REQUIREMENTS OF THE APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.
 - ALL SERVICE LINE MATERIALS MUST BE LEAD FREE.
 - NO WORK SHALL BE BACKFILLED WITHOUT BEING INSPECTED BY THE DEPARTMENT OR ITS DESIGNEE.
 - ANY MATERIALS DAMAGED DURING UNLOADING, STORAGE OR INSTALLATION SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED AT THE APPLICANT / CONTRACTOR'S EXPENSE.
 - ALL SURFACE RESTORATION OF DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND AUTHORIZED AGENT THERE OF (CONTRACTOR). UPON COMPLETION OF THE WORK, ALL SURFACES AND SURFACE FEATURES, (INCLUDING PAVEMENTS, WALKS, DRIVES, FENCES, WALLS, LIGHTS, LAWNS, LANDSCAPING, ETC.) SHALL BE LEFT IN A CONDITION THAT IS AT LEAST EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION. ALL PAVEMENTS WITHIN THE TOWN OF NORTHBOROUGH OR STATE RIGHT OF WAY SHALL BE RESTORED IN ACCORDANCE WITH THE APPLICABLE ROAD OPENING PERMIT AND OR ESTABLISHED STANDARDS.
 - NO WATER MAIN OR SERVICE WILL BE ACCEPTED BY THE DEPARTMENT AND OR ACTIVATED UNTIL SUCH TIME AS THE DEPARTMENT HAS RECEIVED ALL OUTSTANDING DOCUMENTATION (SHOP DRAWINGS, AS-BUILT DRAWINGS, ETC.) AND FEES AND OUTSTANDING CHARGES.
 - THE DEPARTMENT RESERVES THE RIGHT TO PERIODICALLY MODIFY THESE STANDARDS AND TO WAIVE PARTS OR REQUIREMENTS THEREOF SHOULD IT BE IN THE BEST INTEREST OF THE DEPARTMENT TO DO SO.
 - NO PERSON OTHER THAN DEPARTMENT PERSONNEL SHALL OPERATE ANY VALVE, HYDRANT OR OTHER COMPONENTS OF THE DEPARTMENTS WATER DISTRIBUTION SYSTEM.
 - WATER MAIN SHALL REMAIN WITHIN THE PAVEMENT LIMITS A MINIMUM OF 2- FEET FROM THE PAVEMENT EDGE.
 - ALL WATER SERVICES, MAINS, AND OTHER WATER RELATED APPURTENANCES CONNECTED TO THE NORTHBOROUGH WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE REGULATIONS FOR USERS OF THE NORTHBOROUGH WATER SUPPLY AND DISTRIBUTION SYSTEM APPENDIX C - "WATER MAIN AND WATER SERVICE MATERIALS, INSTALLATION, AND TESTING" AND THE TOWN OF NORTHBOROUGH DEPARTMENT OF PUBLIC WORKS CONSTRUCTION DETAILS.



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REV.	DATE	DESCRIPTION	INIT.
B	7/23/21	TOWN COMMENTS	
A		INITIAL ISSUE	GBS

PROFESSIONAL ENGINEER
GREGORY BRIAN SCOTCHDOPE
0191-0000
7/23/21

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Brant L. Viner & Margaret Harling
P.O. Box 295
Ellsworth, ME 04605

TITLE:
CONSTRUCTION DETAILS

WEST STREET WATERLINE EXTENSION
85 & 95 West Street
Northborough, MA 01532
(Worcester County)

NOTICE OF INTENT

JOB NO.:	1207.03	DATE:	6/4/21
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