

**NOTICE OF INTENT**

**Franklin Well Nos. 2, 2A,  
and 2B Upgrades**

Town of Franklin,  
Department of Public  
Works

April 2024



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## WPA Form 3



**Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

**WPA Form 3 - Notice of Intent**

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

Provided by MassDEP:  
MassDEP File #:  
eDEP Transaction #:1704780  
City/Town:FRANKLIN

**A.General Information**

**1. Project Location:**

a. Street Address	100 PUBLIC WORKS WAY		
b. City/Town	FRANKLIN	c. Zip Code	02038
d. Latitude	42.07761N	e. Longitude	71.41694W
f. Map/Plat #	288	g.Parcel/Lot #	001-000-000

**2. Applicant:**

Individual  Organization

a. First Name	DOUGLAS	b.Last Name	MARTIN
c. Organization	FRANKLIN DEPARTMENT OF PUBLIC WORKS		
d. Mailing Address	257 FISHER STREET		
e. City/Town	FRANKLIN	f. State	MA
g. Zip Code	02038		
h. Phone Number	508-520-4910	i. Fax	508-520-3486
j. Email	dmartin@franklinma.gov		

**3.Property Owner:**

more than one owner

a. First Name	DOUGLAS	b. Last Name	MARTIN
c. Organization	FRANKLIN DEPARTMENT OF PUBLIC WORKS		
d. Mailing Address	257 FISHER STREET		
e. City/Town	FRANKLIN	f.State	MA
g. Zip Code	02038		
h. Phone Number	508-520-4910	i. Fax	508-520-3486
j.Email	dmartin@franklinma.gov		

**4.Representative:**

a. First Name	MAGDALENA	b. Last Name	LOFSTEDT
c. Organization	CDM SMITH INC.		
d. Mailing Address	75 STATE STREET, SUITE 701		
e. City/Town	BOSTON	f. State	MA
g. Zip Code	02169		
h.Phone Number	617-452-6597	i.Fax	
j.Email	lofstedt@cdmsmith.com		

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

a.Total Fee Paid	b.State Fee Paid	c.City/Town Fee Paid
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**6.General Project Description:**

EXCAVATION OF SHALLOW TRENCHES WITHIN BORDERING LAND SUBJECT TO FLOODING TO INSTALL VENTURI FLOW METERS AT EXISTING WELLS 2, 2A, AND 2B, SEE ATTACHMENT A FOR DETAILED PROJECT DESCRIPTION.

**7a.Project Type:**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Single Family Home                | 2. <input type="checkbox"/> Residential Subdivision                  |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial                    |
| 5. <input type="checkbox"/> Dock/Pier                         | 6. <input checked="" type="checkbox"/> Utilities                     |
| 7. <input type="checkbox"/> Coastal Engineering Structure     | 8. <input type="checkbox"/> Agriculture (eg., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation                    | 10. <input type="checkbox"/> Other                                   |



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7b. Is any portion of the proposed activity eligible to be treated as a 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:

2. Limited 310 CMR 10.53(D) - ?THE CONSTRUCTION, RECONSTRUCTION, OPERATION AND MAINTENANCE OF UNDERGROUND AND OVERHEAD PUBLIC UTILITIES, SUCH AS ELECTRICAL DISTRIBUTION OR TRANSMISSION LINES, OR COMMUNICATION, SEWER, WATER AND NATURAL GAS LINES??

8. Property recorded at the Registry of Deeds for:

<b>a.County:</b>	<b>b.Certificate:</b>	<b>c.Book:</b>	<b>d.Page:</b>
NORFOLK		18627	206

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

1. Buffer Zone & Resource Area Impacts (temporary & permanent):

This is a Buffer Zone only project - 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)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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	2. square feet
	3. cubic yards dredged	
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	175 1. square feet	175 2. square feet
	3. cubic feet of flood storage lost	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. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if any)	
	2. Width of Riverfront Area (check one)	
	<input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only	
	<input type="checkbox"/> 100 ft. - New agricultural projects only	
	<input type="checkbox"/> 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:	



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- 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)**

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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 Beaches	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
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, crea.
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.Restoration/Enhancement**

Restoration/Replacement

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 entered the additional amount here.

- a. square feet of BVW      b. square feet of Salt Marsh



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5. Projects Involves Stream Crossings

Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

**C. Other Applicable Standards and Requirements**

**Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review**

1. 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 of Endangered Species program (NHESP)?

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

b. Date of map: 4/17/2024

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)...

c. Submit Supplemental Information for Endangered Species Review \* (Check boxes as they apply)

1.  Percentage/acreage of property to be altered:

(a) within Wetland Resource Area percentage/acreage

(b) outside Resource Area percentage/acreage

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

3.  Project plans for entire project site, including wetland resource areas and areas outside of wetland 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

c.  MESA filing fee (fee information available at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>)

Make check payable to "Natural Heritage & Endangered Species Fund" 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

d. 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, <http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; 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.



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a. NHESP Tracking Number

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.

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?

a.  Not applicable - project is in inland resource area only

b.  Yes  No

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

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

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
836 S. Rodney French Blvd  
New Bedford, MA 02744

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930

If yes, it 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.

3. 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 DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. 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

5. 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

6. 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, Explain why the project is exempt:





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- 1. Single Family Home
- 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**

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 by regular mail delivery.

- 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.
- 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.

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

COVER SHEET,  
SHEET C-9, AND  
SHEET CD-1

KYLE  
GERLACH/MICHAELA  
BOGOSH

April 2024/1"=20'

- 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.



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**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:

_____	_____
2. Municipal Check Number	3. Check date
_____	_____
4. State Check Number	5. Check date
_____	_____
6. Payer name on check: First Name	7. Payer name on check: Last Name

**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	2. Date
_____	_____
3. Signature of Property Owner(if different)	4. Date
	April 17, 2024
_____	_____
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 Section C, Items 1-3, 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.

**Town of Franklin Conservation Commission**

**RESOURCE AREA IMPACT SUMMARY FORM**

**The Franklin Wetlands Protection Bylaw  
Franklin Town Code Section 181**

<b>Resource Area</b>	<b>Alteration Proposed</b>	<b>Mitigation Proposed</b>
Bordering Vegetated Wetland (SF)		
Bank (LF)		
Land Under Water Bodies (SF)		
Isolated Wetland (SF)		
Vernal Pool (SF)		
Buffer Zone (SF)	175 SF (temporary)	175 SF restored in place
Riverfront (SF)		
100-Year Floodplain (CF)	175 SF (temporary)	175 SF restored in place
(SF) = Square Feet (LF) = Linear Feet (CF) = Cubic Feet Flood Storage		

## Town of Franklin Conservation Commission

### APPLICATION PROCESS SIGNATURE FORM

There are three different applications that can be submitted to undertake work in a jurisdictional area: a Notice of Intent (NOI), a Request for Determination (RDA) and a Minor Buffer Zone Activity (MBZA). All three applications have different criteria for submission and approval and the NOI and RDA are governed by both the state law and the local bylaw. The MBZA is issued under the local bylaw only.

When a potential applicant requests advice from the Conservation Agent on which application to file, the opinion of the Agent is based on the information given by the potential applicant and any other information available to the Agent, e.g. the town's GIS system. The Agent has no legal right to go onto private property at any time until after an application is filed or permission of the property owner is given.

It is important that all applicants understand that after an application is filed, additional information may come to light e.g. via a field inspection or a review of the application, that may impact the scope of the submitted application and the approval process. **Therefore, it is the ultimate responsibility of the applicant to decide which application to file.**

In light of the above, please sign below indicating an understanding of this policy and submit it with the application.



---

Signature of Property Owner

April 17, 2024

---

Date

## Project Figures

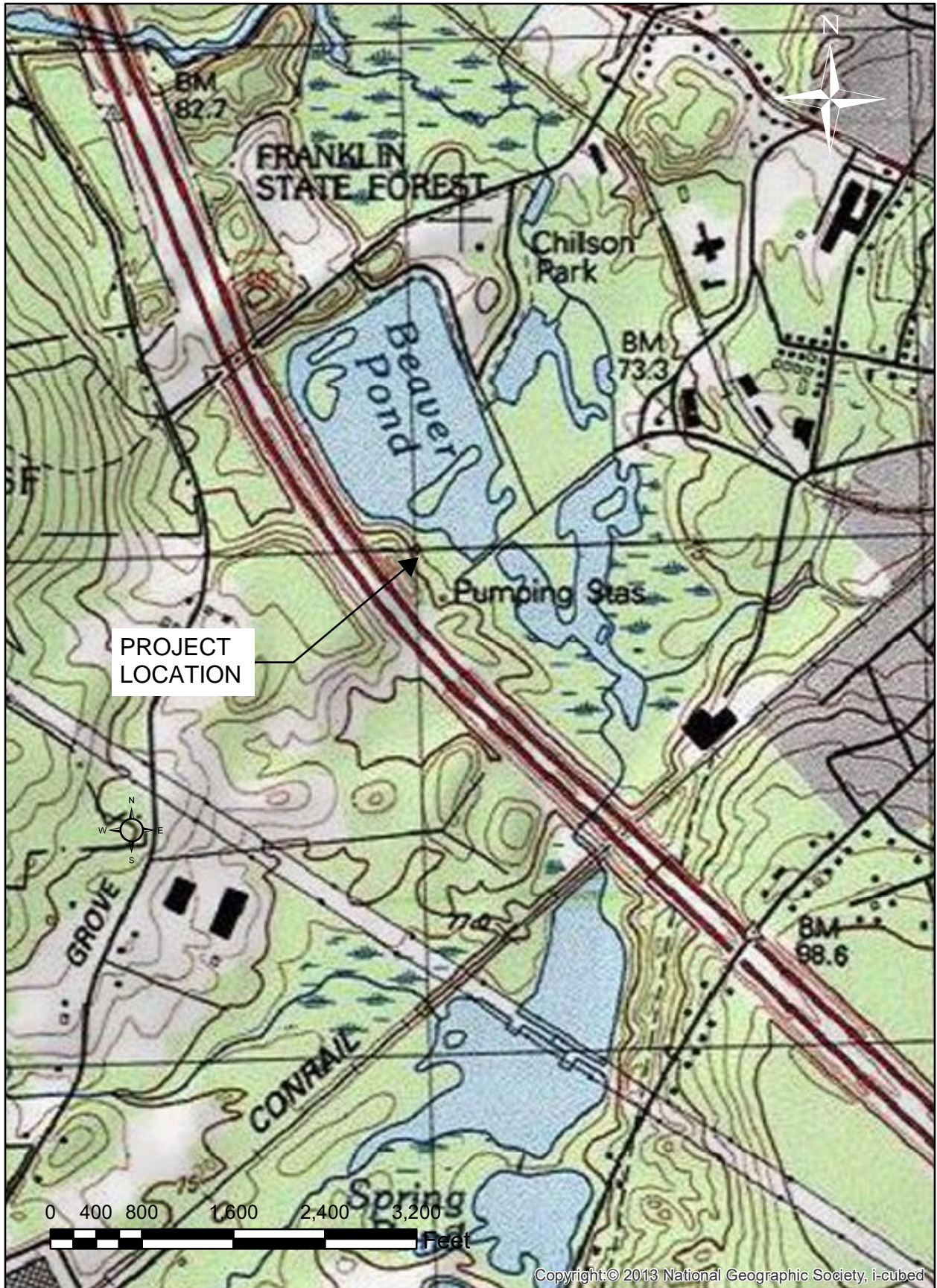


FIGURE 1: USGS PROJECT LOCATION MAP

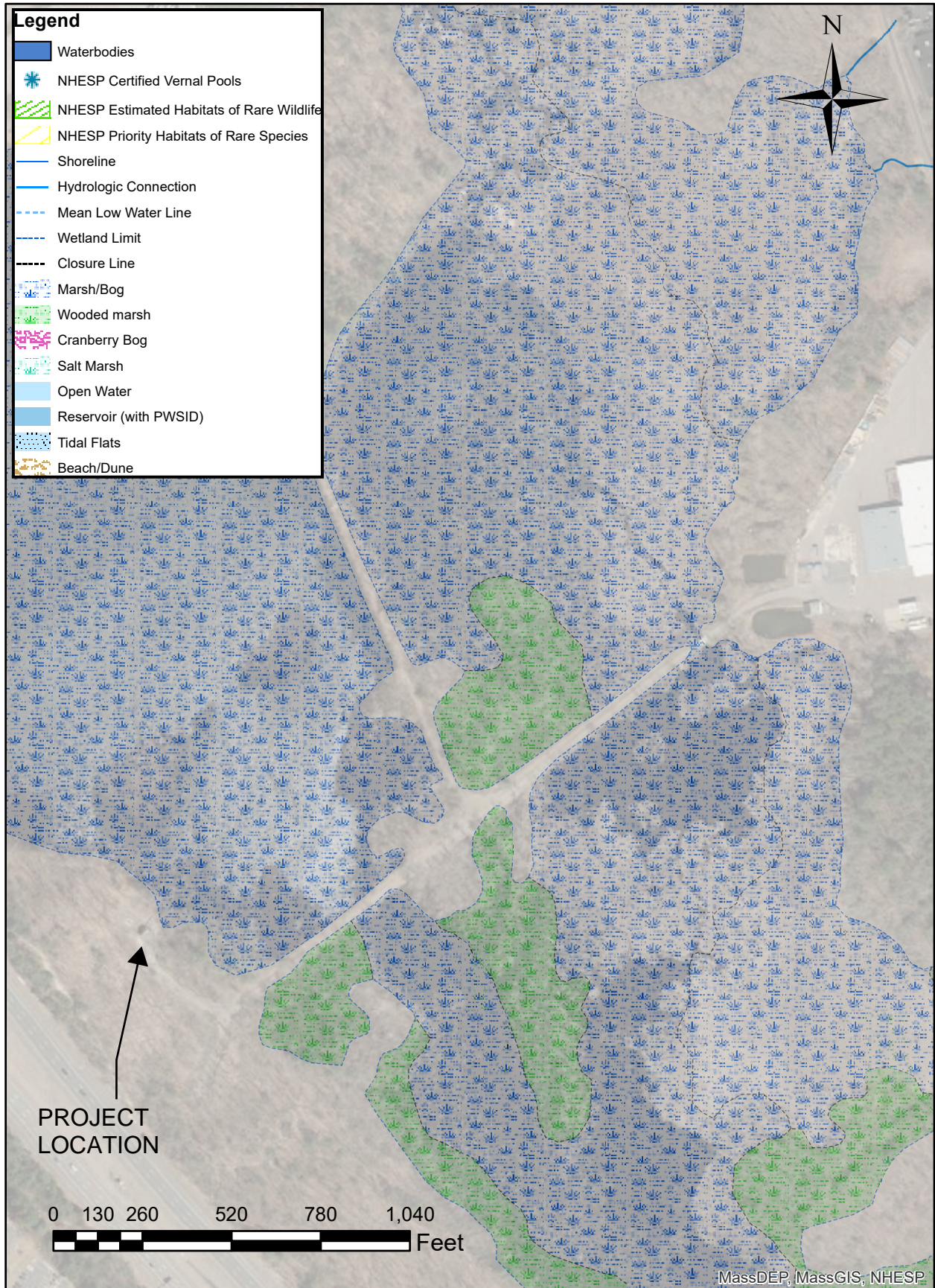
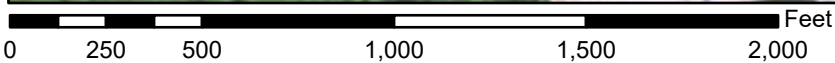


FIGURE 2: ESTIMATED AND PRIORITY HABITAT, AND DEP WETLANDS MAP

# National Flood Hazard Layer FIRMette



71°25'18"W 42°4'52"N



1:6,000

71°24'41"W 42°4'25"N

Basemap Imagery Source: USGS National Map 2023

## 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, Areas 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 LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		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 3/26/2024 at 10:34 AM 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

FIGURE 3: FEMA FLOODPLAIN MAP



**Attachment A**  
**Project Description**

# Attachment A

## Project Narrative

### 1.0 Project Description

CDM Smith Inc. (CDM Smith), on behalf of the Franklin Department of Public Works (DPW), Sewer & Water Division (the Town), submits this Notice of Intent (NOI) to install individual groundwater supply well flow metering at the Fisher Street Wells 2, 2a and 2b.

The Fisher Street Water Treatment Plant (WTP) was constructed in 2004 and has a maximum treatment capacity of 1.18 million gallons per day (mgd). The Fisher Street WTP treats groundwater from four wells located in the vicinity of Beaver Pond and Mine Brook. The WTP typically only operates during the high demand period of the year (usually spring through fall) and is turned offline for the winter months.

Back in 2019, MassDEP completed a sanitary survey of Franklin's entire public water supply system. The lack of individual groundwater supply well flow metering at the Fisher Street wells (1, 2, 2a and 2b) was found to be a deficiency. Raw groundwater from these four wells is treated at the Fisher Street WTP. As CDM Smith is designing the upgrades to the existing WTP, the DPW asked CDM Smith to also include individual flow metering on Wells 2, 2a and 2b within the larger WTP upgrade project. There are existing metering vaults associated with Wells 2, 2a and 2b but there are no flow meters present at this time. Proposed work consists of installation of new venturi flow meters at Wells 2, 2a and 2b, as well as replacement of vertical turbine pumps and motors for Well No. 2 located inside of the building, and Wells 2a and 2b.

The proposed activities are subject to review by the Conservation Commission under the Town's Wetlands By-Law, Chapter 181 (Town By-Law) and Town Conservation Commission Regulations since the proposed work is located within Bordering Land Subject to Flooding (BLSF) and the 50-foot and 100-foot Buffer Zones to Bordering Vegetated Wetlands (regulated resource areas under the Town By-Law and Regulations).

Please note that since this work consists of public utility maintenance, repair, and replacement activities, it is exempt from state review since M.G.L. Chapter 131 §40 exempts "*maintaining, repairing or replacing, but not substantially changing or enlarging, an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, telephone, telegraph and other telecommunication services*" from filing an application under the Massachusetts Wetlands Protection Act (310 CMR 10.00).

The following sections address the existing on-site wetland conditions, work proposed within wetland resource areas, and proposed measures to mitigate any wetland resource area impacts.

## 2.0 Existing Conditions

Wells 1, 2, 2a and 2b are located within an 18.65-acre Town-owned parcel identified as parcel ID 288-001-000-000 by the Town Assessors maps. The parcel of land is located within Zone II well head protection area.

### 2.1 Wetland Resource Areas

A wetland delineation was completed by a CDM Smith Wetland Scientist on April 1, 2024. A large Bordering Vegetated Wetlands (BVW) associated with Beaver Pond borders the wellfield site to the east.

#### 2.1.1 Bordering Vegetated Wetlands

*Bordering Vegetated Wetlands (BVW) is defined as:*

*“Freshwater wetlands which border on creeks, rivers, streams, ponds, and lakes. The types of freshwater wetlands are wet meadows, marshes, swamps, and bogs. Bordering Vegetated Wetlands are areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants.”*

Wetland flags 1-1 through 1-20End demarcate the limits of the BVW east of Well Building 2 and Wells 2a, and 2b.

Wetland flags 2-1 through 2-9 demarcate the limits of the BVW east of Well 1. The two BVW flaglines are separated by the paved access road.

The BVWs can be characterized as wooded swamp dominated by red maple overstory. Wetland delineation data sheets are included as Attachment D.

#### 2.1.2 Bordering Land Subject to Flooding

*Bordering Land Subject to Flooding (BLSF)*

Bordering Land Subject to Flooding (BLSF) is defined as:

*“an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland.” [310 CMR 10.57 (2)]*

The FEMA Flood Insurance Rate Map (FIRM) identifies the 100-year floodplain in the project area as 234.4 feet NAVD 88 (see Figure 3).

## 2.2 Estimated Habitat

There are no state listed rare or endangered species or certified or potential vernal pools within or adjacent to the project area according to a review of the online GIS viewer (See Figure 2).

## 2.3 Local Jurisdictional Buffer Zone Resource Areas and 25-ft No Disturb Zone

The Town of Franklin considers 100 feet from a defined/delineated resource area as the buffer zone and consequently as an additional protected resource. The Town Bylaw and Regulations regulate activities within the 0 to 25-ft Buffer Zone Resource Area, the 25-ft to 50-ft Buffer Zone Resource Area, and the 50-ft to 100-ft Buffer Zone Resource Area. In addition, the Franklin

Conservation Commission has instituted a no disturb buffer zone that extends 25 feet from the defined/delineated resource area.

### 3.0 Proposed Work within Wetland Resource Areas

Proposed work within BLSF and the 100-ft Buffer Zone is limited to excavating short shallow trenches for installation of ¼" PE tubes for the new venturi flowmeters as shown on Sheet C-9. All excavation is within the fenced in portion for the Well No. 2 building.

Temporarily altered BLSF and 50-ft and 100-ft Buffer Zones will be restored to preconstruction contours and permanently stabilized using a minimum of 6 inches of topsoil and seeding with an erosion control seed mixture. Staked compost logs will remain in place until the areas are fully revegetated.

Dewatering is not anticipated since the trenches are shallow (max. 2 ft deep).

### 4.0 Mitigation Measures

The following summary presents the mitigation measures that will be implemented to avoid and minimize wetland impacts during construction. Please refer to the project plans in Attachment E for typical details of measures to protect wetlands and waterways during and after construction.

- Compost logs will be installed at the limit of work prior to commencement of construction to prevent the transport of sediment and debris to down gradient wetlands and to demarcate the limit of work. The compost logs will be inspected weekly and after all storm events of 0.5 inch or greater and repaired as needed. The barrier will be left in place until the area is permanently stabilized. Compost logs will be replaced as necessary due to sediment build-up and degradation. See Sheet CD-1 Attachment E for details of these barriers.
- Stockpiled soils within BLSF and the 100-foot Buffer Zone will be enclosed within a line of compost logs to prevent erosion or siltation into resource areas. The silt fence/straw bale barrier will be inspected weekly and after all storm events and repaired as needed. The barrier will be left in place until the area is permanently stabilized. Straw bales will be replaced as necessary due to sediment build-up and degradation.
- All disturbed areas will be restored to existing contours and roadways will be repaved.
- Maintenance and refueling of vehicles will take place outside of the 100-Foot Buffer Zone to any resource areas.

#### *Post Construction Measures*

The following summary of mitigation measures will be implemented to restore any short-term impacts that occur in or adjacent to wetlands.

- Temporarily disturbed soils in BLSF and the 100-Foot Buffer Zone will be permanently stabilized with an erosion control seed mixture to match preconstruction conditions. The area will be maintained and re-seeded to ensure that vegetation cover is adequate to stabilize the exposed soil.

- If seeding occurs outside of the growing season, temporary stabilization measures (i.e., mulching or erosion control blankets) will be used to prevent erosion until the area can be seeded during the following growing season.

## 5.0 Compliance with Performance Standards

### 5.1 Massachusetts Wetlands Protection Act

As described above, work is proposed within Bordering Land Subject to Flooding. Proposed work complies with the General Performance Standards outlined in 310 CMR 10.57 (4) (a) which include:

1. *Compensatory storage shall be provided for all flood storage volume that will be lost as a result of a proposed project within bordering land subject to flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in horizontal extent and level of flood waters during peak flows. Compensatory storage shall mean a volume not previously used for flood storage and shall be incrementally equal to the theoretical volume of flood water at each elevation, up to and including the 100-year flood elevation, which would be displaced by the proposed project. Such compensatory volume shall have an unrestricted hydraulic connection to the same waterway or water body. Further, with respect to waterways, such compensatory volume shall be provided within the same reach of the river or stream.*

Work within BLSF consists of excavation of shallow trenches for installation of ¼" PE tubes for the new venturi flow meters as shown on Sheet C-9. The proposed work will temporarily alter approximately 175 sf of BLSF. Temporarily altered BLSF will be restored to preconstruction contours resulting in no net loss of BLSF.

2. *Work within bordering land subject to flooding, including the work required to provide compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.*

Temporarily altered BLSF will be restored to preconstruction contours therefore the proposed project would not result in a restriction of flows or an increase in flood stage or velocity.

3. *Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in a resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on Wildlife habitat, as determined by procedures contained in 310 CMR 10.60.*

This project proposes de minimus temporary impacts to BLSF (<0.01%) all located within the fenced in portion of Well Building No. 2, and therefore will not impact the areas' ability to provide wildlife habitat as temporarily altered BLSF will be restored to preconstruction contours.

## 5.2 Franklin Bylaw Regulations

The proposed activities within BLSF and the 50-ft and 100-foot Buffer Zone Resource Areas are in compliance with the performance standards of the Franklin Bylaw Regulations Sections 4.3 and 4.4. No new structures are proposed within the 25-50 Buffer Zone Resource Area. The proposed alteration is temporary and limited to three shallow trench excavations which will be restored to preconstruction grades and conditions. No tree clearing is proposed. No work is proposed within the 25-ft Buffer Zone.

## 6.0 Summary

Proposed work is limited to temporary alteration of BLSF and the 50-ft and 100-foot Buffer Zone Resource Areas for excavation of shallow trenches for installation of 1/4" PE tubes for the new venturi flow meters. Temporarily impacted BLSF and the 50-ft and 100-foot Buffer Zone Resource Areas will be restored to preconstruction contours and permanently stabilized as described above in Section 3.0.

The interests of the Town By-Law and Regulations will not be impaired as a result of this project and all appropriate erosion and sedimentation control measures will be implemented throughout the course of the construction to prevent erosion and the transport of sediment.

**Attachment B**  
**Abutter Notification Information**

## **Town of Franklin Conservation Commission**

### **NOTIFICATION TO ABUTTERS**

#### **Under the Massachusetts Wetlands Protection Act And The Franklin Wetlands Protection Bylaw**

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

Franklin Department of Public Works (Water & Sewer Division)\_has filed a Notice of Intent with the Franklin Conservation Commission for the Well Nos. 2, 2A, and 2B Upgrades on April 18, 2024, under the Wetlands Protection Act (M.G.L c.131 §40).

Copies of the Notice of Intent may be examined during regular office hours at Franklin Department of Public Works (Water & Sewer Division) located at 257 Fisher Street in Franklin.

Copies may also be examined by contacting the Franklin Conservation Department located at 355 East Central Street, Franklin, MA, (508) 520-4929.

Notice of the public hearing including the date, time, and place will be published at least five (5) days in advance in the Milford Daily News.

Notice of the public hearing including the date, time, and place will be posted in the Franklin Town Hall at least forty eight (48) hours in advance of the public hearing.

The public hearing will be held on Thursday, May 2, 2024, at 7 pm, via Zoom, and can be accessed through the Conservation Commission agenda for that night, which will be posted on the Town's website 48 hours prior to the meeting. Please call the Conservation Department at (508) 520-4929 if you have any questions.

You may also contact the Massachusetts Department of Environmental Protection, Central Regional Office, Worcester, MA at (508) 792-7650.



**Town of Franklin Conservation Commission**

**AFFIDAVIT OF SERVICE**

**Under the Massachusetts Wetlands Protection Act**

(To be submitted to the Massachusetts Department of Environmental Protection and the Franklin Conservation Commission when filing a Notice of Intent)

I, Magdalena Lofstedt hereby certify under the pains and penalties of perjury that on April 18, 2024, I gave Notification to Abutters in compliance with second paragraph of Massachusetts General Laws Chapter 131, Section 40 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by Franklin Department of Public Works with the Franklin Conservation Commission on \_April 18, 2024, for property located on \_100 Public Works Way, Franklin, MA.

The Notification to Abutters form and list of the abutters to whom it was given and their addresses are attached to the Affidavit of Service.



\_\_\_\_\_  
Signature

\_\_\_\_April 18, 2024\_\_\_\_\_  
Date

# Attachment C

## Photographs



Photo 1: Wells Nos. 2, 2a, and 2b, view looking north.



Photo 2: Well No. 1, view facing west.



Photo 3: Top of Bank flag 1-8, view facing northeast



Photo 4: Wetland flag 1-20, view facing pump house building.



Photo 5: BVW flagged as Wetland 2 located south of access drive, view facing west.



Photo 6: Wetland 2, view facing southwest.



**Attachment D**  
**DEP's Bordering Vegetated Wetland Delineation Field**  
**Data Form**

**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: \_\_\_\_\_ City/Town: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

Applicant/Owner: \_\_\_\_\_ Sampling Point or Zone: \_\_\_\_\_

Investigator(s): \_\_\_\_\_ Latitude / Longitude: \_\_\_\_\_

Soil Map Unit Name: \_\_\_\_\_ NWI or DEP Classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? (If yes, explain in Remarks)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.**

Wetland vegetation criterion met?	Yes _____ No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____ No _____
Hydric Soils criterion met?	Yes _____ No _____		
Wetlands hydrology present?	Yes _____ No _____		
Remarks, Photo Details, Flagging, etc.:			

**HYDROLOGY**

<b>Field Observations:</b>		
Surface Water Present?	Yes _____ No _____	Depth (inches) _____
Water Table Present?	Yes _____ No _____	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes _____ No _____	Depth (inches) _____
<b>Wetland Hydrology Indicators</b>		
<b>Reliable Indicators of Wetlands Hydrology</b>	<b>Indicators that can be Reliable with Proper Interpretation</b>	<b>Indicators of the Influence of Water</b>
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines  <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits  <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				_____ = Total Cover			
<u>Shrub/Sapling Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				_____ = Total Cover			
<u>Herb Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
				_____ = Total Cover			

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size _____		Indicator	Absolute	Dominant?	Wetland
Common name		Scientific name		Status	% Cover	(yes/no)	Indicator?
							(yes/no)
1.							
2.							
3.							
4.							
				_____ = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes _____ No _____	
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?
				Yes _____ No _____
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	=
	FACW species		X 2	=
	FAC species		X 3	=
	FACU species		X 4	=
	UPL species		X 5	=
	Column Totals	(A)		(B)
Prevalence Index		B/A =		Is the Prevalence Index ≤ 3.0?
				Yes _____ No _____
<b>Wetland vegetation criterion met?</b>			Yes _____ No _____	

**Definitions of Vegetation Strata**

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %



**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: \_\_\_\_\_ City/Town: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

Applicant/Owner: \_\_\_\_\_ Sampling Point or Zone: \_\_\_\_\_

Investigator(s): \_\_\_\_\_ Latitude / Longitude: \_\_\_\_\_

Soil Map Unit Name: \_\_\_\_\_ NWI or DEP Classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? (If yes, explain in Remarks)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.**

Wetland vegetation criterion met?	Yes _____ No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____ No _____
Hydric Soils criterion met?	Yes _____ No _____		
Wetlands hydrology present?	Yes _____ No _____		
Remarks, Photo Details, Flagging, etc.:			

**HYDROLOGY**

<b>Field Observations:</b>		
Surface Water Present?	Yes _____ No _____	Depth (inches) _____
Water Table Present?	Yes _____ No _____	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes _____ No _____	Depth (inches) _____
<b>Wetland Hydrology Indicators</b>		
<b>Reliable Indicators of Wetlands Hydrology</b>	<b>Indicators that can be Reliable with Proper Interpretation</b>	<b>Indicators of the Influence of Water</b>
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines  <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits  <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				_____ = Total Cover			
<u>Shrub/Sapling Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
				_____ = Total Cover			
<u>Herb Stratum</u>		Plot size _____					
				Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
				_____ = Total Cover			

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size _____		Indicator	Absolute	Dominant?	Wetland
Common name		Scientific name		Status	% Cover	(yes/no)	Indicator?
							(yes/no)
1.							
2.							
3.							
4.							
				_____ = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes _____ No _____	
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?
				Yes _____ No _____
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	=
	FACW species		X 2	=
	FAC species		X 3	=
	FACU species		X 4	=
	UPL species		X 5	=
	Column Totals	(A)		(B)
Prevalence Index		B/A =		Is the Prevalence Index ≤ 3.0?
				Yes _____ No _____
<b>Wetland vegetation criterion met?</b>			Yes _____ No _____	

**Definitions of Vegetation Strata**

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %





**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: \_\_\_\_\_ City/Town: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

Applicant/Owner: \_\_\_\_\_ Sampling Point or Zone: \_\_\_\_\_

Investigator(s): \_\_\_\_\_ Latitude / Longitude: \_\_\_\_\_

Soil Map Unit Name: \_\_\_\_\_ NWI or DEP Classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? (If yes, explain in Remarks)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.**

Wetland vegetation criterion met?	Yes _____ No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____ No _____
Hydric Soils criterion met?	Yes _____ No _____		
Wetlands hydrology present?	Yes _____ No _____		
Remarks, Photo Details, Flagging, etc.:			

**HYDROLOGY**

<b>Field Observations:</b>		
Surface Water Present?	Yes _____ No _____	Depth (inches) _____
Water Table Present?	Yes _____ No _____	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes _____ No _____	Depth (inches) _____
<b>Wetland Hydrology Indicators</b>		
<b>Reliable Indicators of Wetlands Hydrology</b>	<b>Indicators that can be Reliable with Proper Interpretation</b>	<b>Indicators of the Influence of Water</b>
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines  <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits  <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size _____			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
		_____ = Total Cover			
<u>Shrub/Sapling Stratum</u>		Plot size _____			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
		_____ = Total Cover			
<u>Herb Stratum</u>		Plot size _____			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name			
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
		_____ = Total Cover			

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size _____		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
				_____ = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW? Yes _____ No _____				
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes _____ No _____	
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	=
	FACW species		X 2	=
	FAC species		X 3	=
	FACU species		X 4	=
	UPL species		X 5	=
	Column Totals	(A)		(B)
Prevalence Index		B/A =		Is the Prevalence Index ≤ 3.0? Yes _____ No _____
<b>Wetland vegetation criterion met?</b> Yes _____ No _____				

**Definitions of Vegetation Strata**

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- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

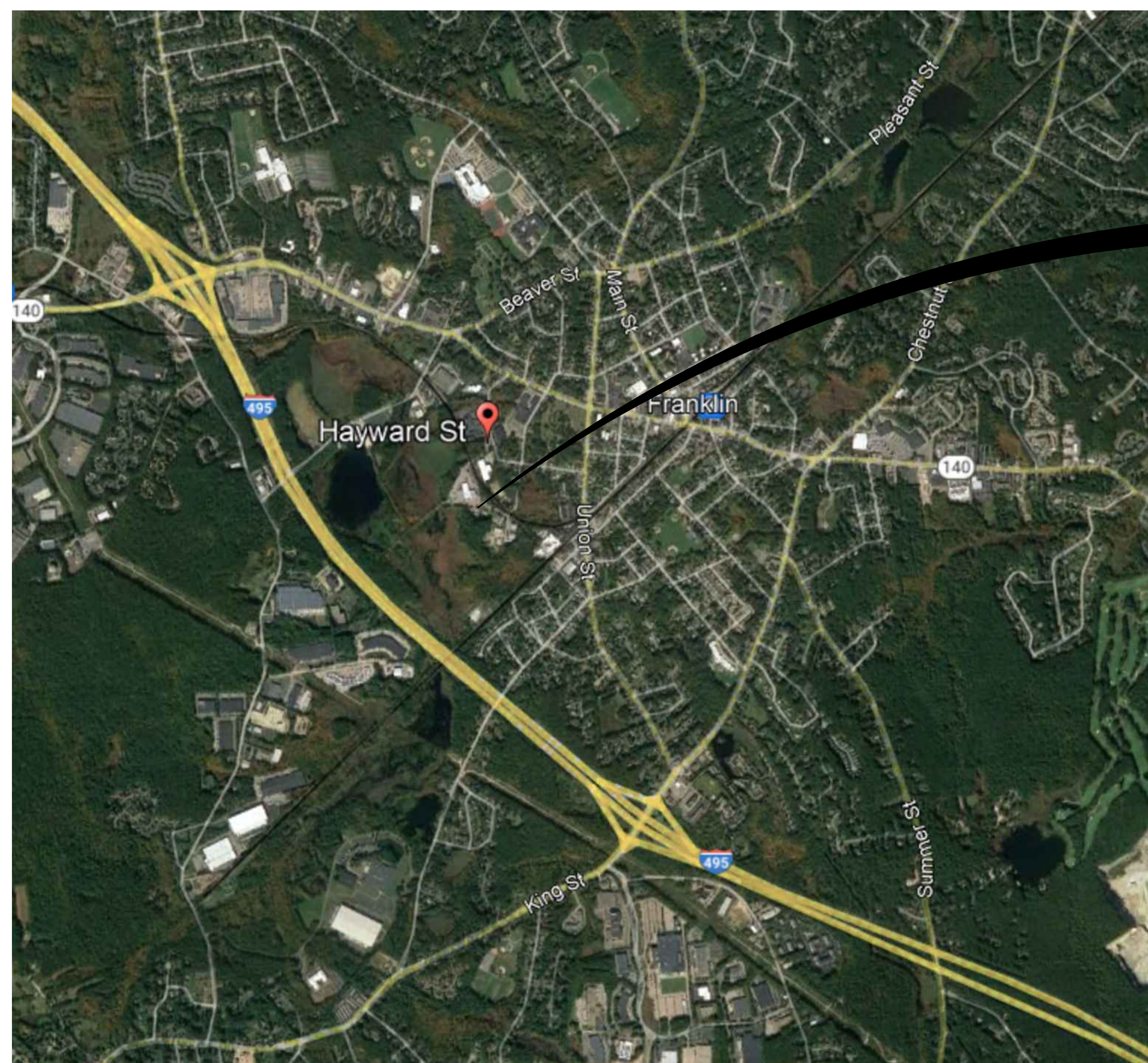


**Attachment E**  
**Project Plans**

TOWN OF FRANKLIN, MASSACHUSETTS

# FISHER STREET WATER TREATMENT PLANT UPGRADES

CONTRACT NO. XXXX



FISHER STREET WATER TREATMENT PLANT  
10 PUBLIC WORKS WAY  
FRANKLIN, MA 02038

**TOWN ADMINISTRATOR**

JAMIE HELLEN

**DEPUTY TOWN ADMINISTRATOR**

AMY FRIGULIETTI

**ACTING DIRECTOR OF PUBLIC WORKS**

MICHAEL MAGLIO, P.E.

**WATER & SEWER SUPERINTENDENT**

DOUGLAS MARTIN, P.E.

LOCATION PLAN  
SCALE : NTS

APRIL 2024  
90% SUBMITTAL  
NOT FOR CONSTRUCTION  
FOR PERMITTING  
PURPOSES ONLY

**CDM  
Smith**  
BOSTON, MASSACHUSETTS

*Water*

*Environment*

*Transportation*

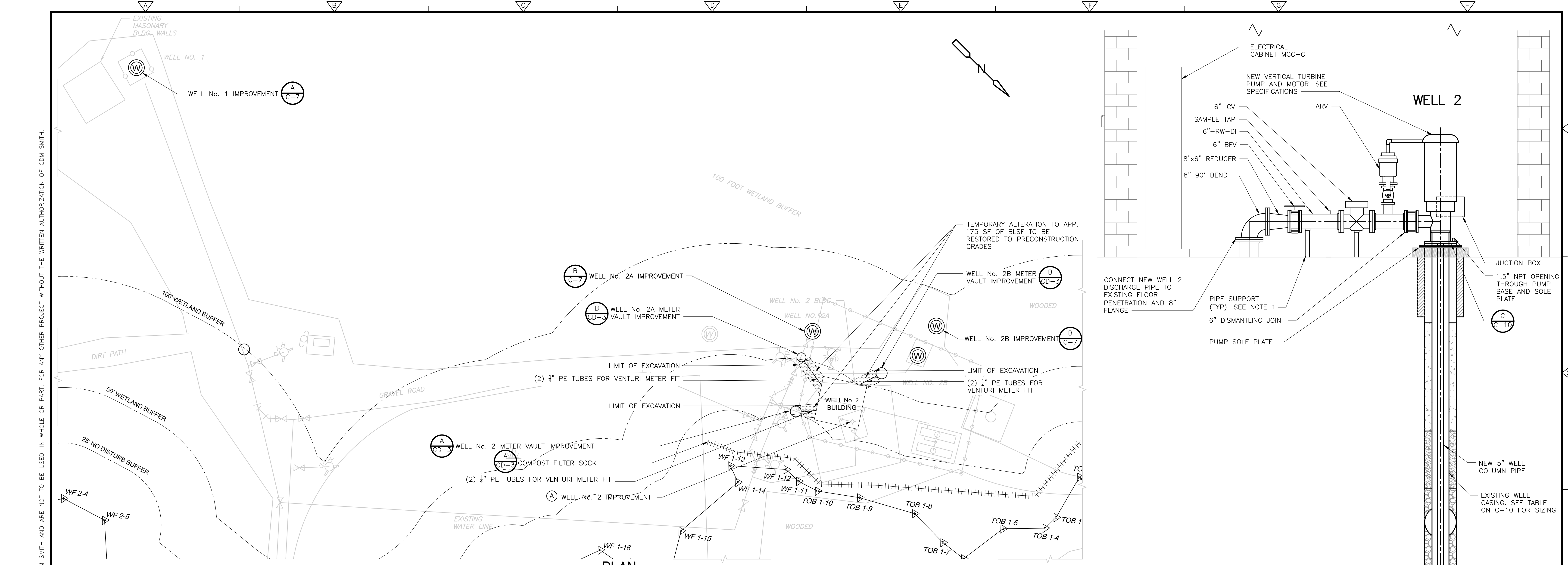
*Energy*

*Facilities*



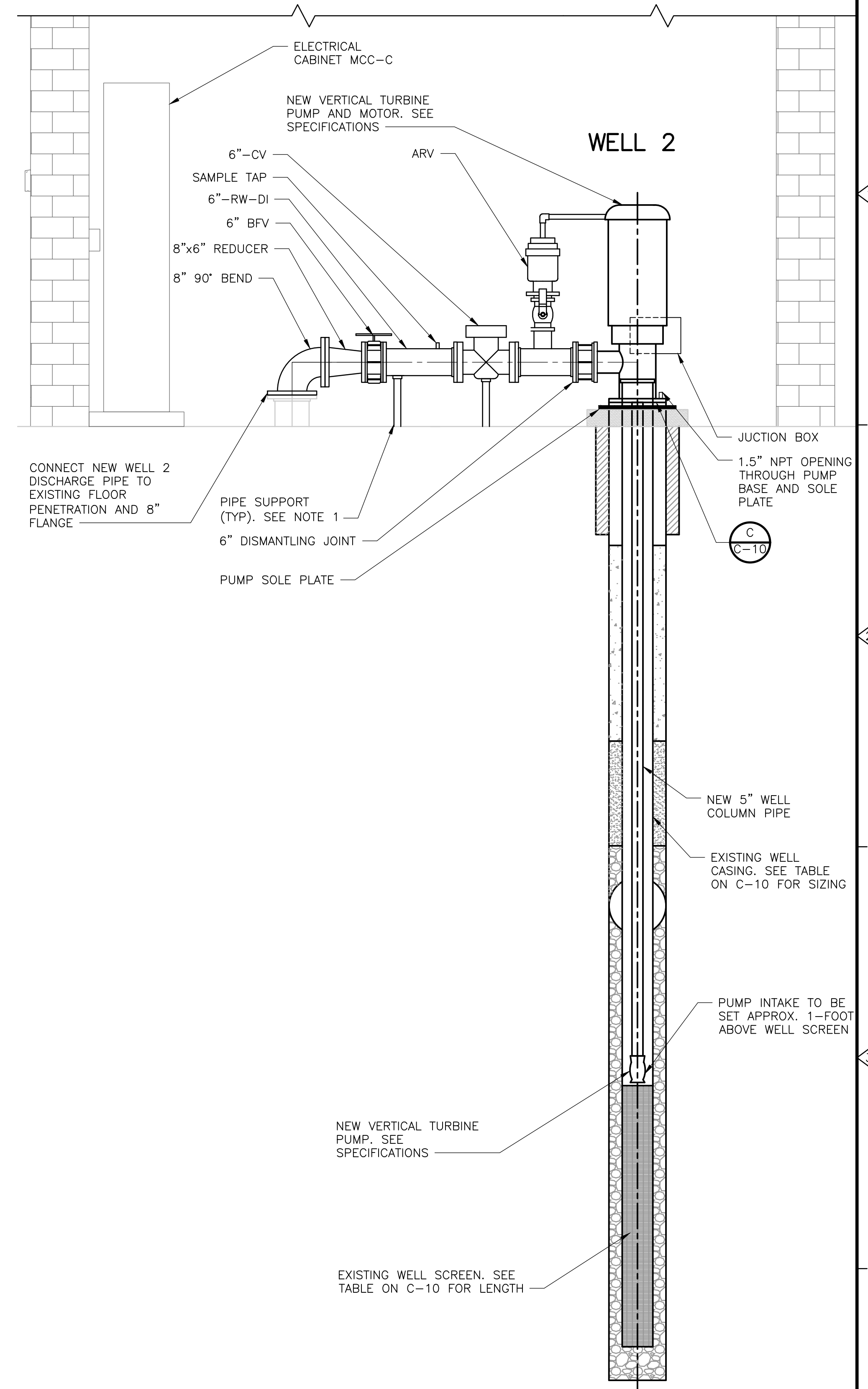
SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MICHAELA BOGOSH  
CDM Smith, Inc.

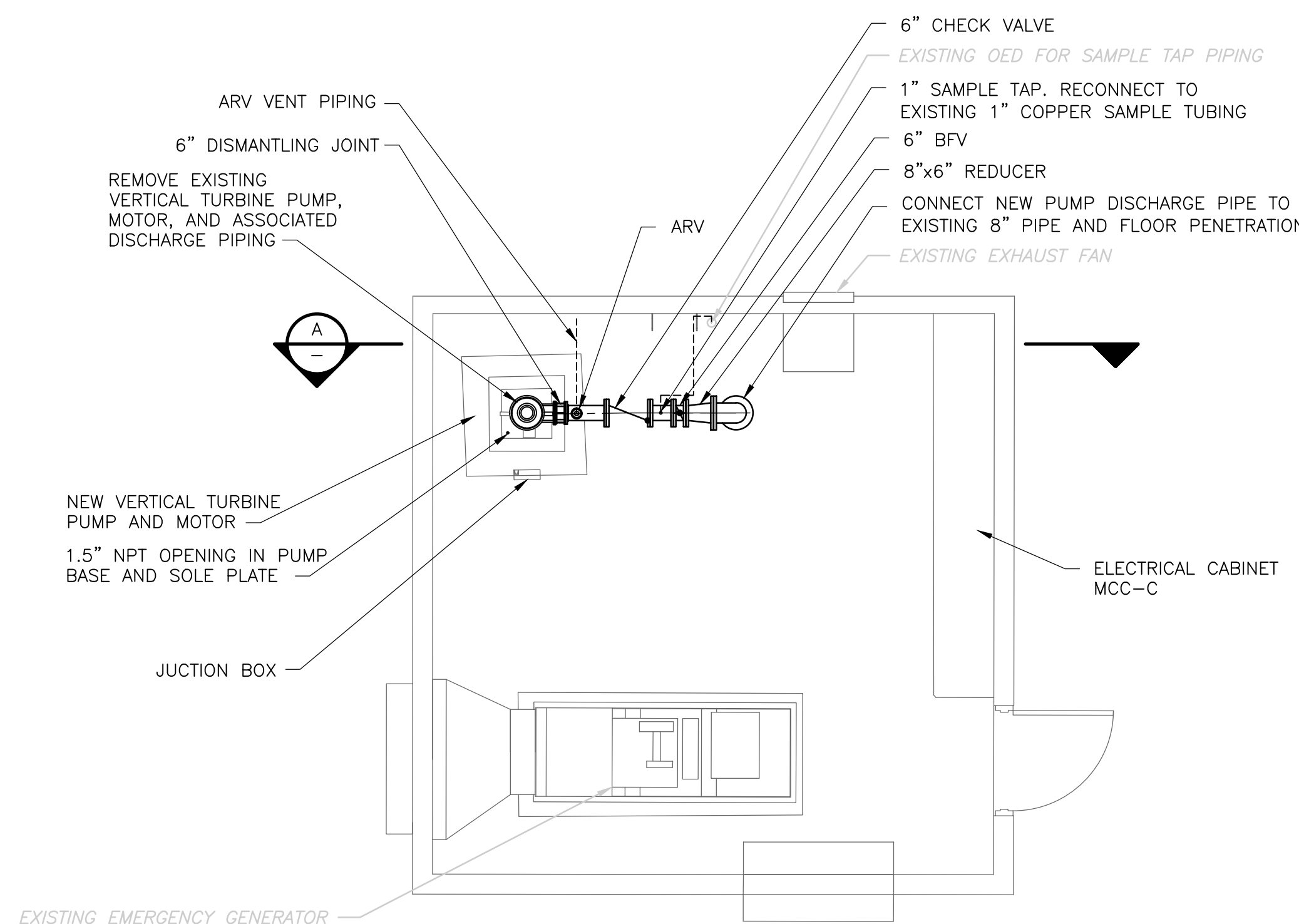


**PLAN**  
SCALE : 1" = 20'

NOTES:  
1. SLANTED AND SCREENED TEXT INDICATES INFORMATION OR DIMENSIONS TAKEN FROM DRAWINGS PRODUCED BY TATA & HOWARD, INCORPORATED, TITLED "TOWN OF FRANKLIN, MASSACHUSETTS, WATER TREATMENT FACILITY FOR WELLS NO. 1 AND 2", DATED AUGUST 2003. ALL EXISTING INFORMATION AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.



**WELL No. 2 – IMPROVEMENTS DETAIL**  
SCALE : NTS



**WELL No. 2 – IMPROVEMENTS PLAN**  
SCALE : 1/4" = 1'-0"

NOTES:  
1. PROVIDE PIPE SUPPORTS FOR PROCESS PIPING. SEE SPECIFICATION SECTION 400507 FOR REQUIREMENTS.  
2. ALL EQUIPMENT BASES, AIR RELEASE VALVES, OVERFLOWS AND PIPING HAVING OUTLETS SHALL BE PIPED TO THE NEAREST OPEN END DRAIN (OED) OR TRENCH DRAIN USING COPPER PIPE OF APPROPRIATE DIAMETER AS INDICATED ON THE DRAWINGS OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.  
3. SMALL DIAMETER PIPING AND TUBING IS SHOWN SCHEMATICALLY ON THE DRAWINGS. FINAL LOCATION TO BE DETERMINED IN THE FIELD.  
4. ALL PROPOSED WORK IS LOCATED WITHIN BORDERING LAND SUBJECT TO FLOODING EL. 234.4 FT (NAVD 88)

XREFs: [CDMS\_2436] Images: [Captures] Let saved by: AUREKARSV Time: 12/29/2023 6:57:09 PM C:\Santosh\BIM\_Coordination\Fisher\_Street\304\PDF\Final\New folder (3)\M0010PRDT.dwg © 2024 CDM SMITH ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

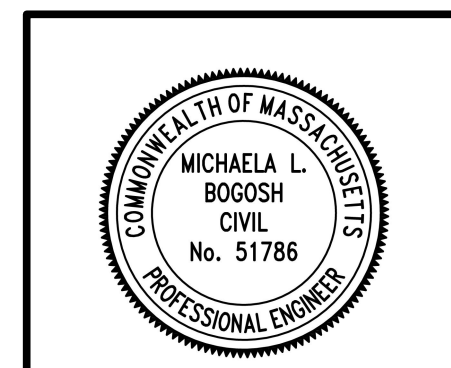
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. GERLACH  
 DRAWN BY: P. SHINDE  
 SHEET CHK'D BY: XX  
 CROSS CHK'D BY: XX  
 APPROVED BY: XX  
 DATE: APRIL 2024

**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-8000

TOWN OF FRANKLIN, MASSACHUSETTS  
 FISHER STREET  
 WATER TREATMENT PLANT UPGRADES

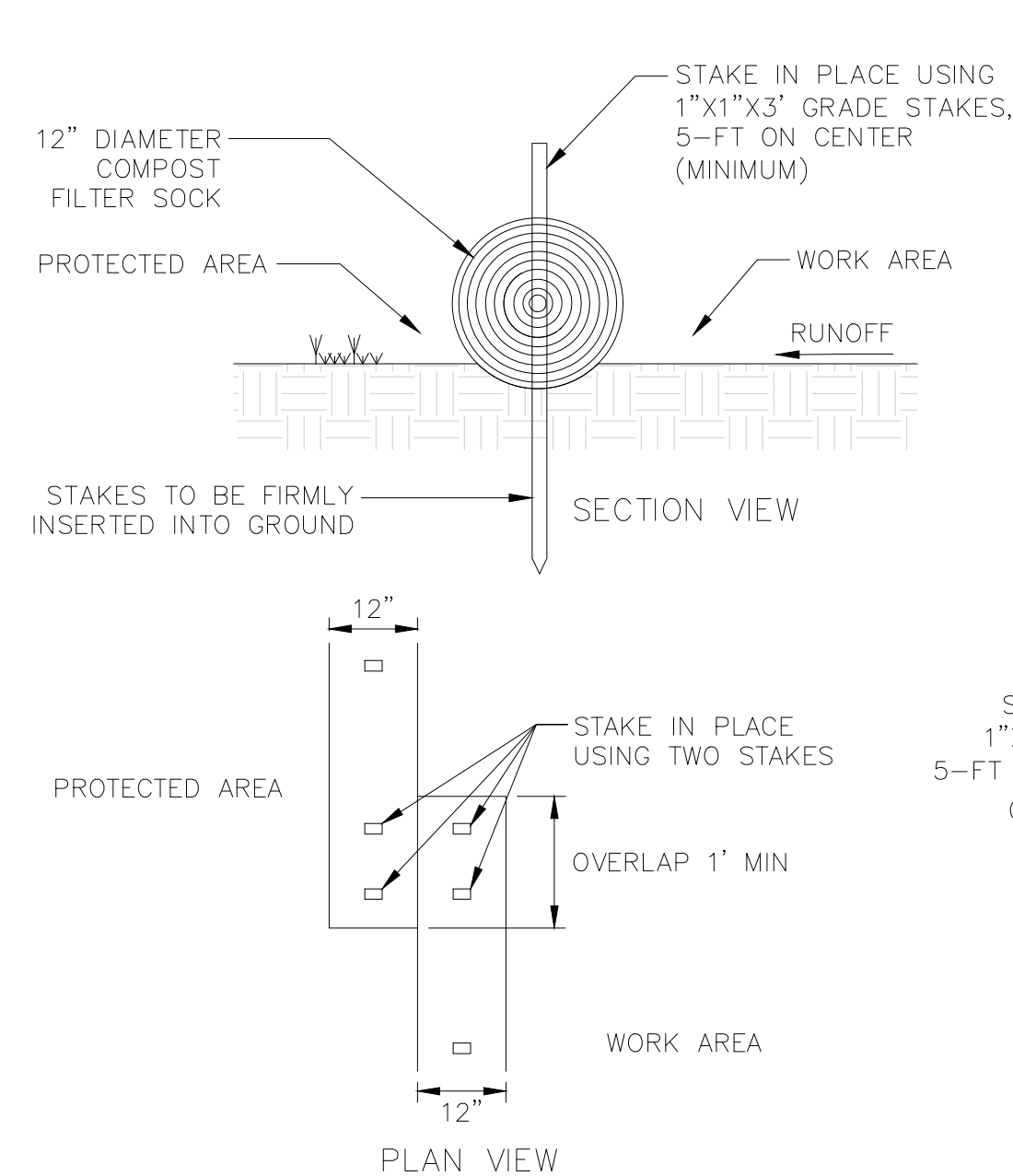
UTILITIES I - WELL No. 1, 2, 2A AND 2B  
 SHEET NO. C-9



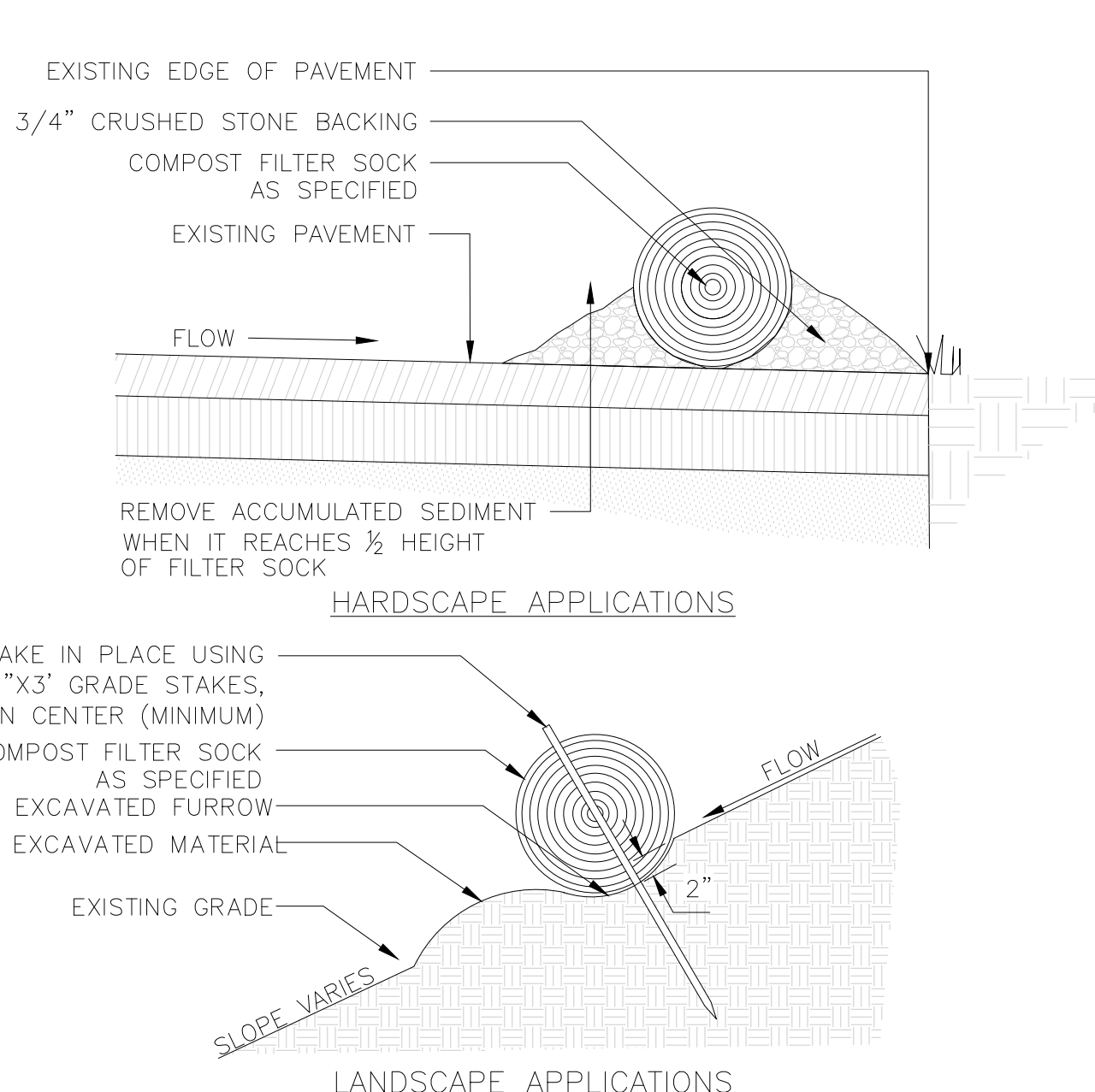
PROJECT NO. 0602-282385  
 FILE NAME: M0010PRDT.dwg  
 SHEET NO. C-9



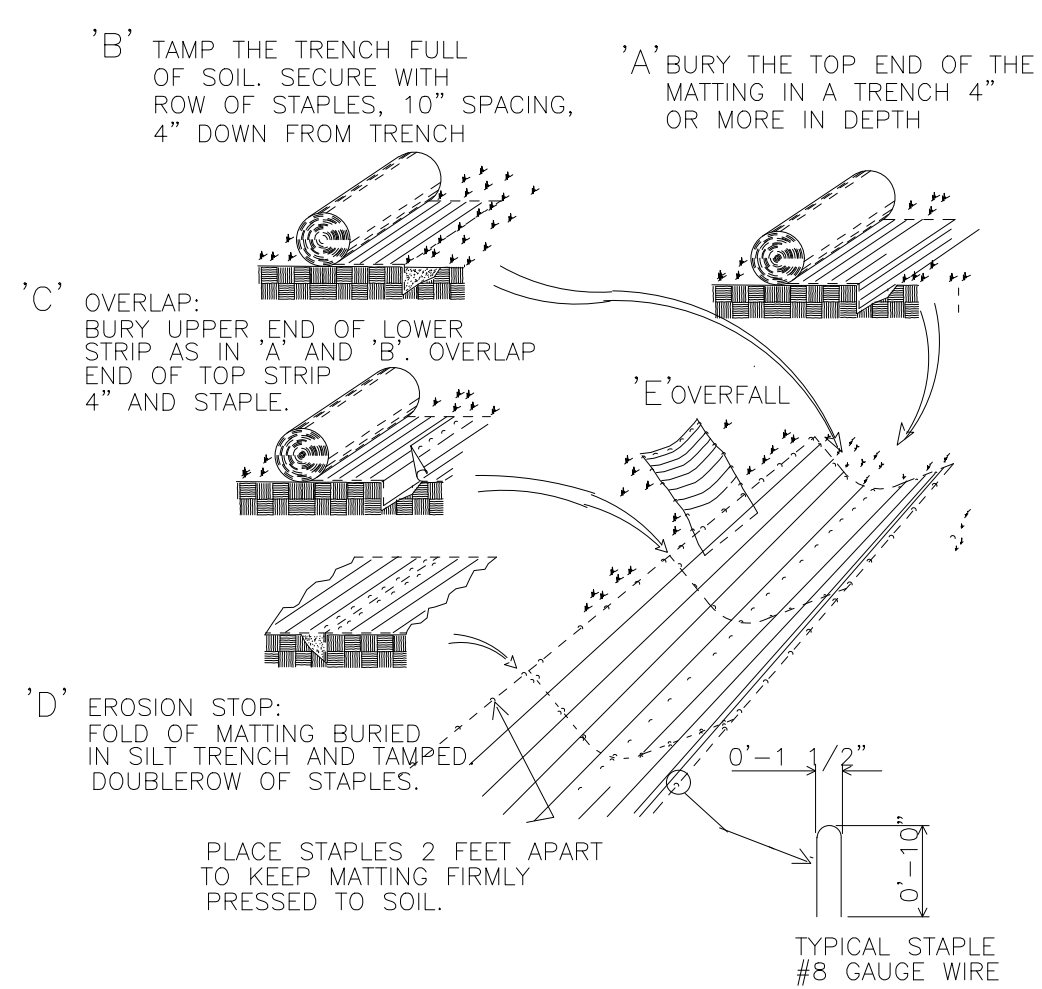
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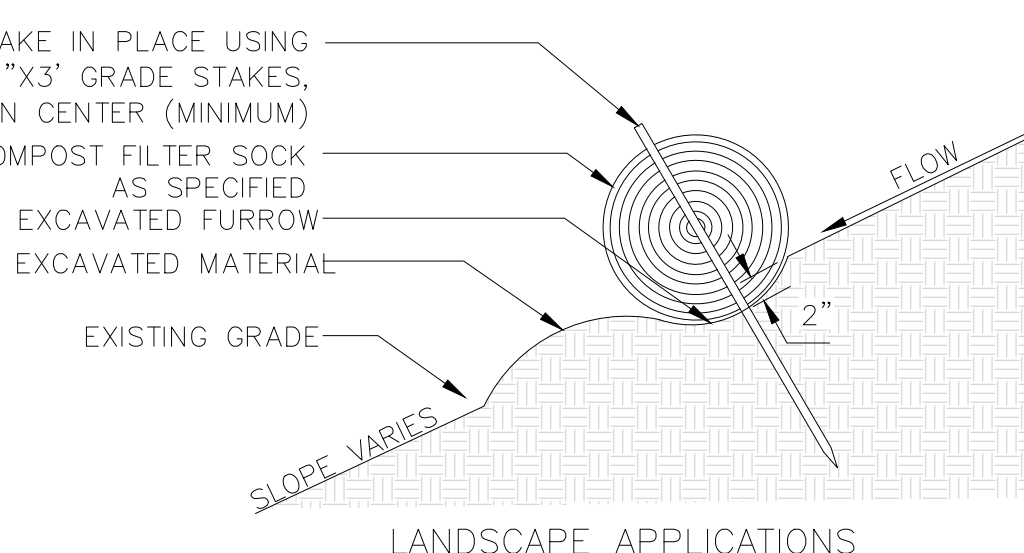
**COMPOST FILTER SOCK**  
**DETAIL A**  
NOT TO SCALE



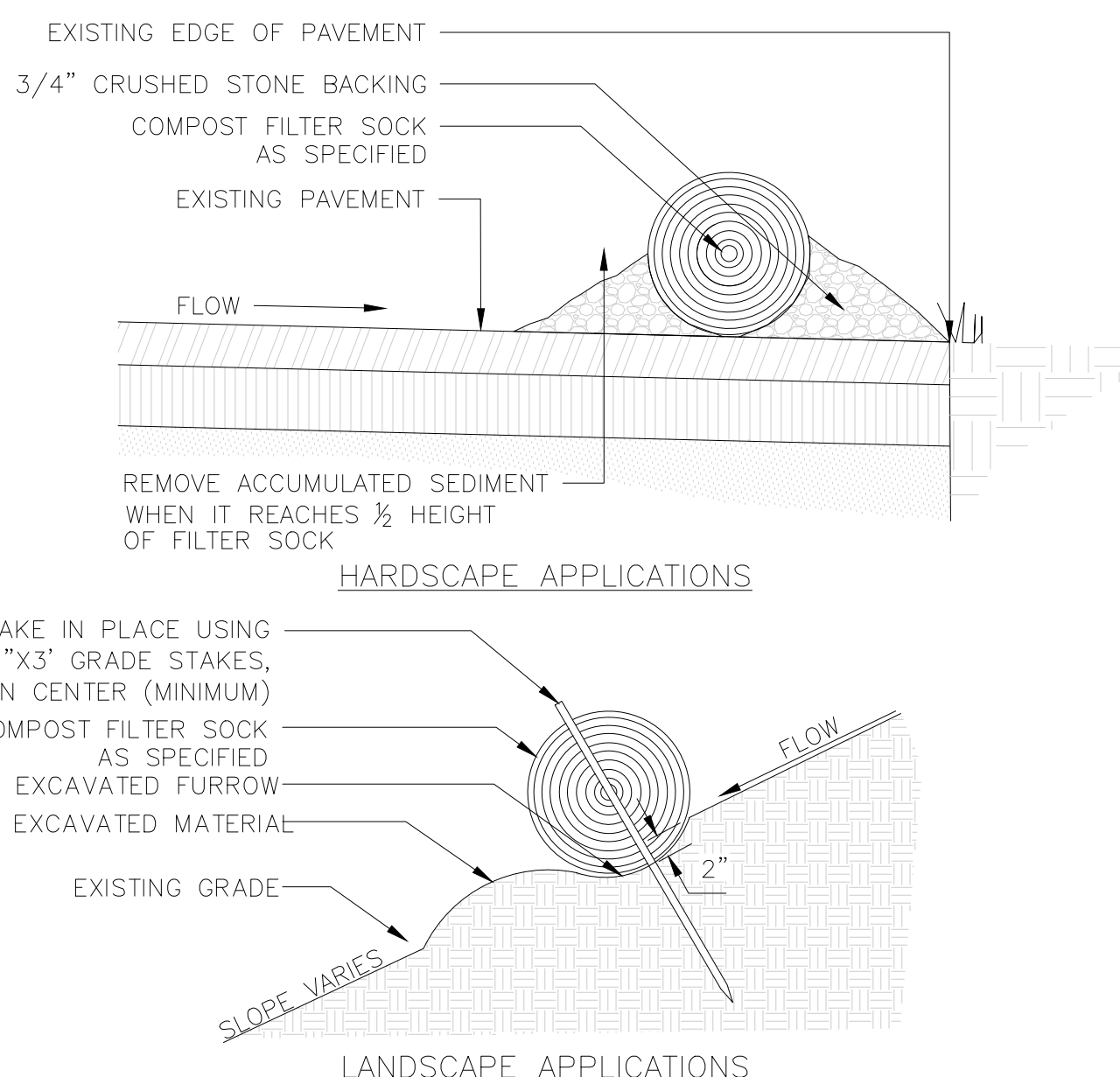
**TEMPORARY SILTATION CONTROL DEVICE**  
**DETAIL B**  
NOT TO SCALE



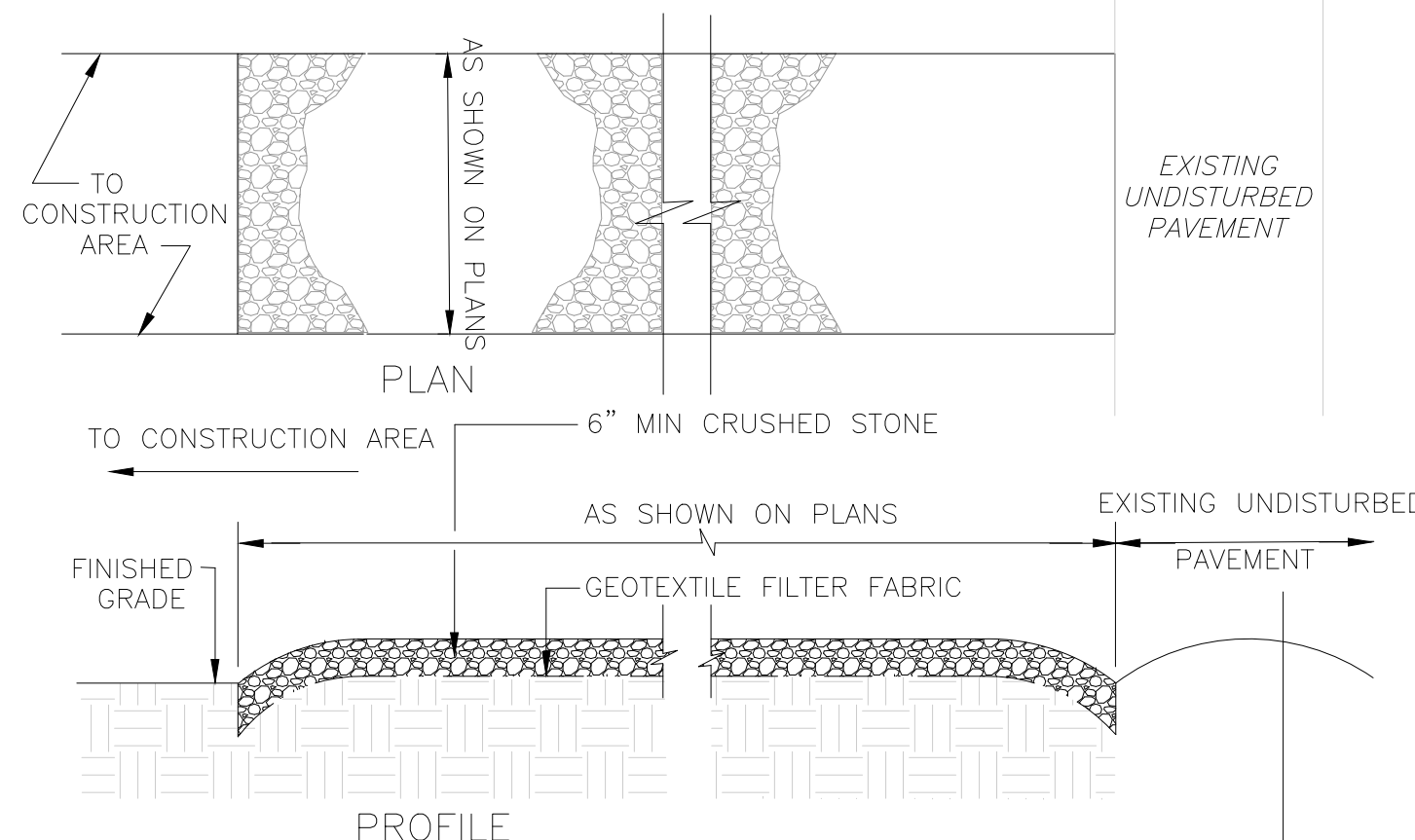
**EROSION CONTROL BLANKET**  
**DETAIL C**  
NOT TO SCALE



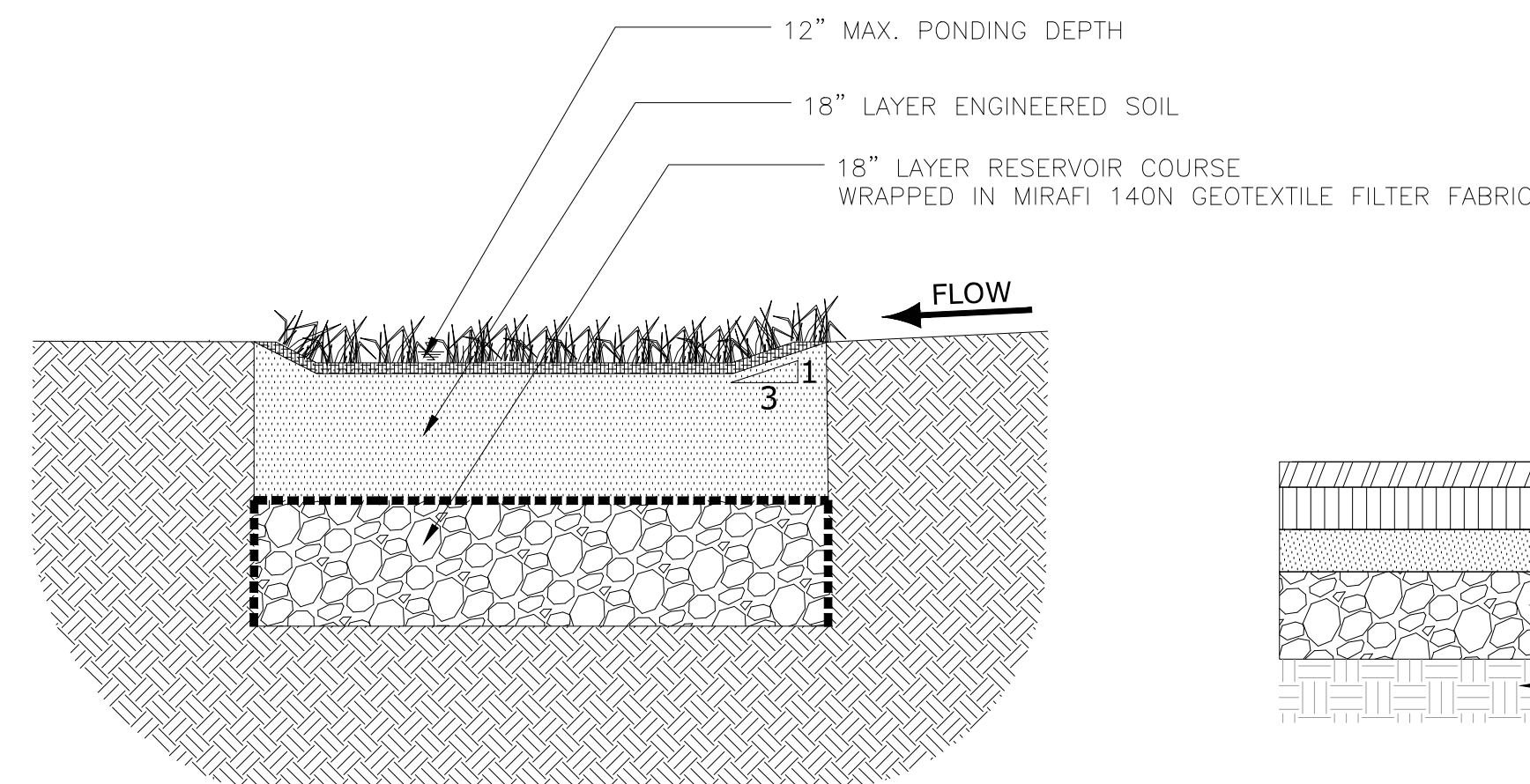
**BIORETENTION AREA**  
**DETAIL D**  
NOT TO SCALE



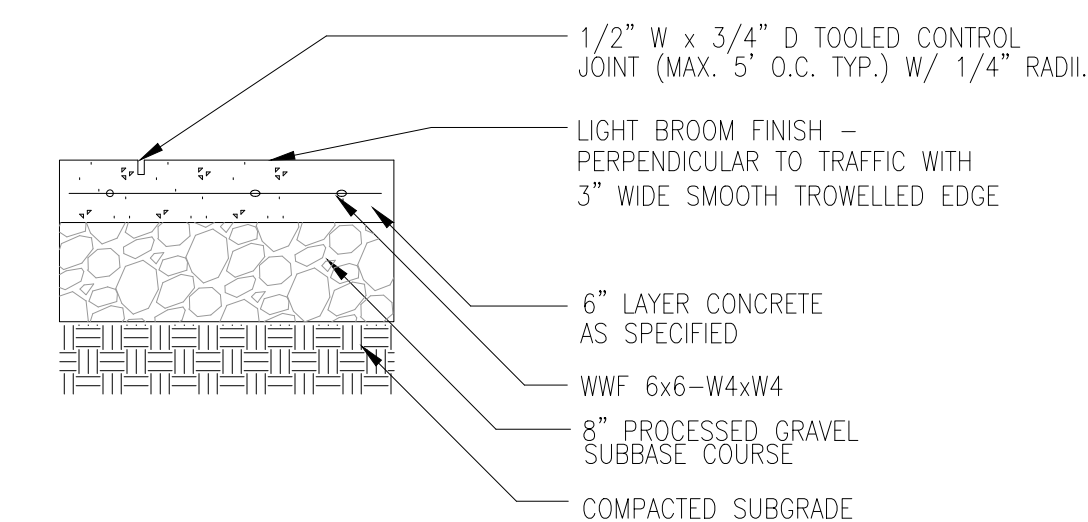
**EMERGENCY SPILLWAY**  
**DETAIL E**  
NOT TO SCALE



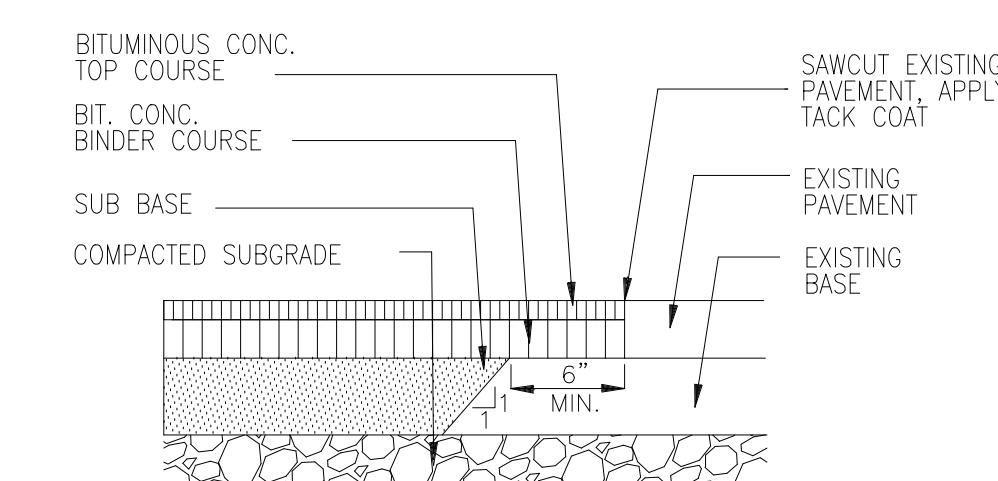
**STABILIZED CONSTRUCTION ENTRANCE**  
**DETAIL F**  
NOT TO SCALE



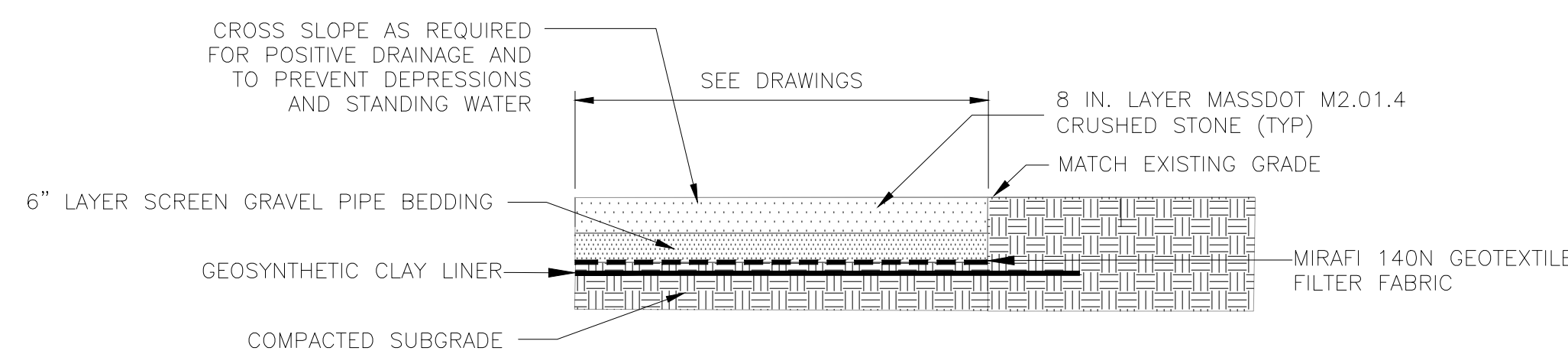
**BITUMINOUS CONCRETE PAVING**  
**DETAIL G**  
NOT TO SCALE



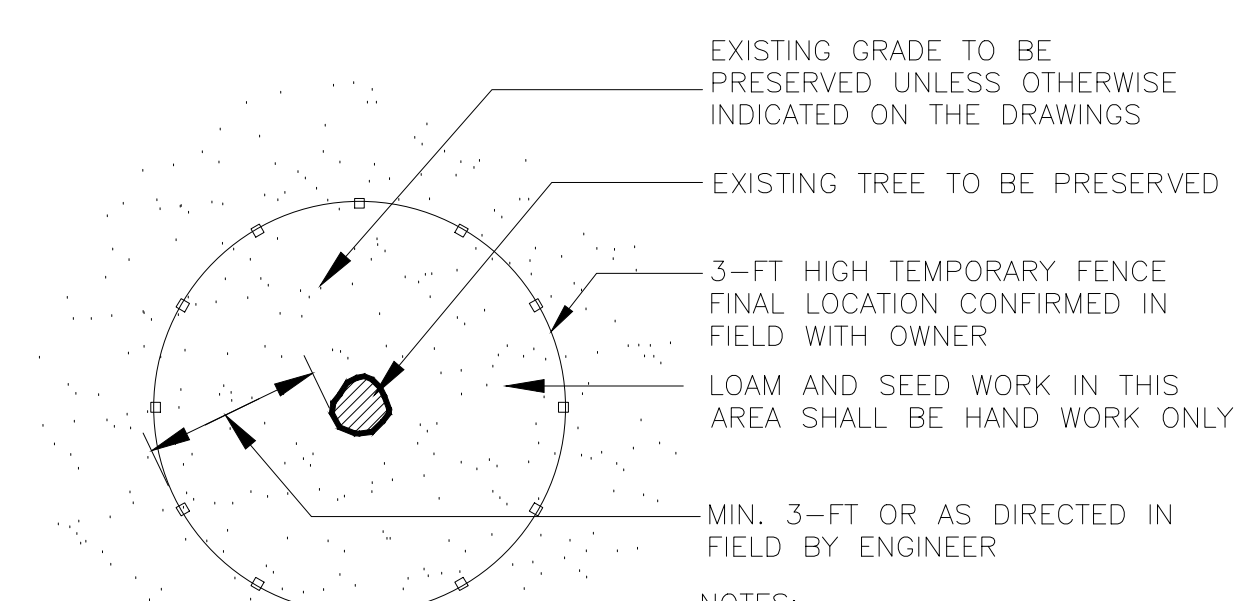
**CONCRETE WALKWAY**  
**DETAIL H**  
NOT TO SCALE



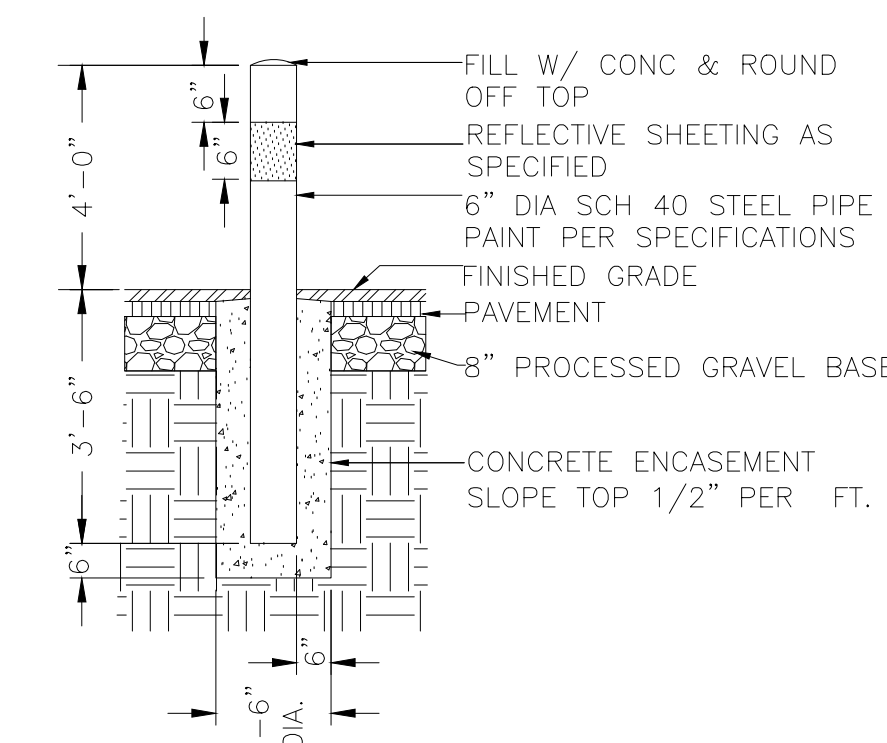
**PAVEMENT MATCH**  
**DETAIL I**  
NOT TO SCALE



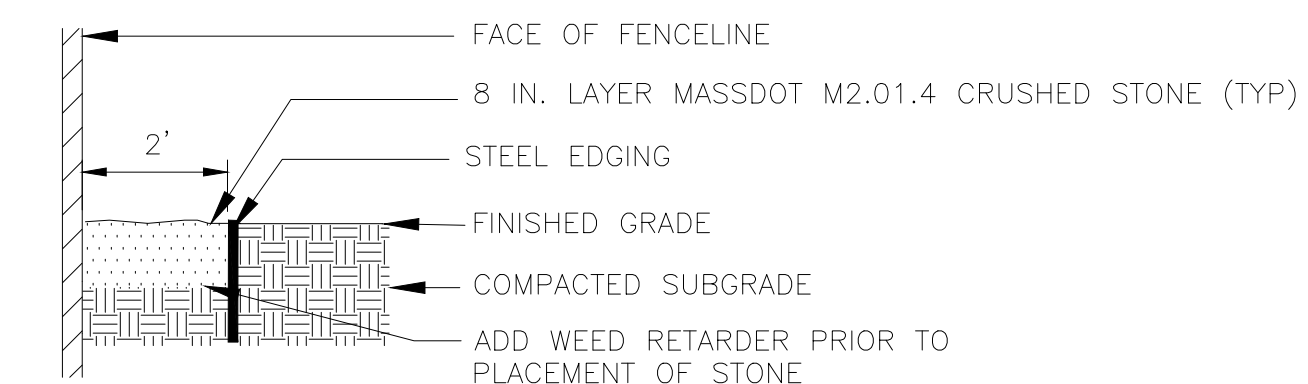
**CRUSHED STONE SURFACING**  
**DETAIL J**  
NOT TO SCALE



**TREE PROTECTION FENCE**  
**DETAIL K**  
NOT TO SCALE



**BOLLARD**  
**DETAIL L**  
NOT TO SCALE



**WASHED STONE MOW STRIP**  
**DETAIL M**  
NOT TO SCALE

- NOTES:**
1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND UNDISTURBED PAVEMENT.
  2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO UNDISTURBED PAVEMENT.
  3. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDING STONE TO THE LENGTH OF THE ENTRANCE.
  4. REPAIR AND CLEANOUT MEASURES USED TO TRAP SEDIMENT.
  5. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO UNDISTURBED PAVEMENT SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

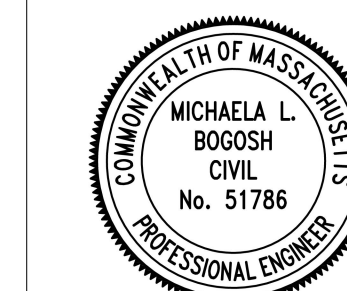
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. CARLSON  
DRAWN BY: M. CARLSON  
SHEET CHK'D BY: G. HOWARD  
CROSS CHK'D BY: S. LANDGREN  
APPROVED BY: G. HOWARD  
DATE: APRIL 2024



TOWN OF FRANKLIN, MASSACHUSETTS  
**FISHER STREET**  
**WATER TREATMENT PLANT UPGRADES**

**CIVIL DETAILS I**



PROJECT NO. 0602-282385  
FILE NAME: CSTPL001  
SHEET NO.  
**CD-1**