



Known for excellence.
Built on trust.



Notice of Intent Application

Deerfield Park & Playing Fields Map 151, Lot 1, 0 North Main Street South Deerfield, Massachusetts

February, 2022

File No. 15.0167016.00



PREPARED FOR:

Town of Deerfield
8 Conway Street
South Deerfield, MA 01373

GZA GeoEnvironmental, Inc.

1350 Main Street, Suite 1400 | Springfield, MA 01103
413-726-2100

Offices Nationwide
www.gza.com

Copyright© 2022 GZA GeoEnvironmental, Inc.



Known for excellence.
Built on trust.

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION
MANAGEMENT

1350 Main Street
Suite 1400
Springfield, MA 01103
T: 413.726.2100
F: 413.732.1249
www.gza.com



February 8, 2022
GZA File No. 15.0167016.00

Deerfield Conservation Commission
8 Conway Street
South Deerfield, MA 01373

**RE: Notice of Intent Application
Deerfield Park and Playing Fields
Map 151, Lot 1, 0 North Main Street**

Dear Conservation Commission Members:

On behalf of the Town of Deerfield, GZA GeoEnvironmental, Inc. is pleased to submit the enclosed Notice of Intent application for the development of the Deerfield Park and Playing Fields at 0 North Main Street (Map 151, Lot 1), Deerfield, MA.

Portions of the proposed work are located within resource areas and their associated Buffer Zones that are subject to protection or regulation under the Massachusetts Wetlands Protection and its companion regulations.

Enclosed is a WPA Form 3-Notice of Intent application and supporting documentation for your review and anticipated approval. If you have questions, please feel free to contact Adrienne Dunk at (201) 247-8950 (adrienne.dunk@gza.com) or Daniel Nitzsche at (413) 478-0946 (daniel.nitzsche@gza.com).

Very truly yours,
GZA GeoEnvironmental, Inc.

Adrienne Dunk, WPIT
Assistant Project Manager

Daniel M. Nitzsche, CPESC, CESSWI, SE
Consultant / Reviewer

CC with attachments:

John Paciorek, Jr., Chief of Police – Town of Deerfield
Kayce D. Warren, Administrator – Town of Deerfield
MassDEP – Western Regional Office



TABLE OF CONTENTS

COVER

COVER LETTER

1.0 INTRODUCTION1

2.0 EXISTING CONDITIONS1

3.0 PROPOSED WORK1

4.0 COMPLIANCE WITH REGULATIONS2

FIGURES

- FIGURE 1 LOCUS MAP
- FIGURE 2 WETLAND RESOURCE MAP

APPENDICES

- APPENDIX A WPA Form 3 – Notice of Intent and Supporting Documentation
- APPENDIX B Project Plans
- APPENDIX C Determination of Applicability
- APPENDIX D Abutter Notification



1.0 INTRODUCTION

On behalf of the Town of Deerfield (Town, Applicant), GZA GeoEnvironmental, Inc. (GZA) has prepared this Notice of Intent (NOI) application for the development of the Deerfield Park and Playing Fields (the “Project”) located at 0 North Main Street, Map 151, Lot 1 (the “Site”), Deerfield, MA (**Figures 1 & 2**).

The proposed work within wetland jurisdiction includes constructing playing fields, a basketball court, pavilion, walking trail, and associated parking and stormwater management within Bank, Bordering Vegetated Wetland (BVW), and their associated 100-foot Buffer Zone. The resource areas and their Buffer Zone are subject to review by the Town of Deerfield Conservation Commission (Commission) pursuant to the WPA and 310 CMR 10.00. A WPA Form 3 – Notice of Intent application is provided in **Appendix A**.

2.0 EXISTING CONDITIONS

The Site is an agricultural field that is periodically plowed which maintains the herbaceous plant community and has eliminated the growth of woody vegetation. Within the central portion of the Site and around portions of the perimeter, the Site is a mature forested area that includes Eastern Cottonwood (*Populus deltoides*), red maple (*Acer rubrum*), pin oak (*Quercus palustris*), and Eastern white pine (*Pinus strobus*) tree species.

GZA conducted a wetland assessment and delineation on November 6, 2019 and August 12, 2020. A subsequent Request for Determination of Applicability application was filed with the Deerfield Conservation Commission for their review and approval. The Commission issued a positive Determination of Applicability approving the wetland delineation for Bank and BVW resources on August 27, 2020 (**Appendix C**).

3.0 PROPOSED WORK

The Applicant proposes to develop recreational fields and ancillary features at the Site including:

- Two multipurpose recreational playing fields;
- Bleachers and benches
- Basketball court;
- Parking area;
- Facilities;
- Five-foot wide walking path with boardwalk section;
- Bandshell; and
- Playground.

To facilitate the park design and site drainage, much of the property will be elevated an average of three feet. The imported soil will be clean granular fill that is free of contaminants or debris. The proposed fill is the minimum necessary to properly operate the outlet subdrains from the fields and will result in approximately 2,770 square feet (SF) of BVW fill. This action is unavoidable because the BVW is finger-like projection of wetland extending from the west into the interior portion of the property and located within the central portion of the site development plan.

The Site design includes the construction of a 5,000 square feet (SF) BVW replacement wetland and located in the western portion of the property adjacent to another BVW. The replacement wetland is required as mitigation for unavoidable



wetland alterations. The Site design also includes the construction of a stormwater system that includes several constructed wetland basins, drainage swales, and a rain garden to manage stormwater as Best Management Practices. In addition to the replacement wetland, a 480 SF portion of BVW located between the two wet basins will be seeded to restore the Buffer Zone since the farming practices will be terminated.

Additionally, several discrete portions of the Bank, located in the southeastern portion of the Site have impediments to positive flow due to sediment accumulation creating high points and organic debris including sections of a cut down tree that are within the Bank. In total, 38 linear feet (LF) of Bank will be temporarily altered and the result of this proposed work will be the stormwater system will function better and the values of the Bank will be restored in-place.

Most of the proposed work occurs within the Buffer Zone. Prior to the start of work, erosion and sediment control measures will be installed to prevent inadvertent migration of sediment from the work area. These controls will be maintained throughout construction and will not be removed until the Site is stabilized or upon receipt of a Certificate of Compliance. Please see **Appendix B** for the full site plans including the Site Grading, Wetland Replication, and Erosion Control details. The stormwater report is included under separate cover.

4.0 COMPLIANCE WITH REGULATIONS

Compliance with the performance standards for Bank and BVW are discussed in the following tables. The BVW mitigation design including planting schedules, details, and notes are included in **Appendix B, Drawing WR-1**.

Table 2: Compliance with Performance Standards for Work within Bank

WPA Reference	WPA Performance Standard	Project Compliance	Discussion
310 CMR 10.54(4)(a)1	Shall not impair the physical stability of the Bank;	Yes	The proposed Bank work includes removing debris from within the channel (cut logs) and regrading high points to improve flow. These efforts will not alter the physical stability or compact the Bank.
310 CMR 10.54(4)(a)2	Shall not impair the water carrying capacity of the existing channel;	Yes	The proposed work would improve the water carrying capacity of the channel by removing obstacles and high points which inhibit flow.
310 CMR 10.54(4)(a)3	Shall not impair the ground water and surface water quality;	Yes	The proposed work will not alter the ground or surface water quality within the Bank or immediate up- or down-gradient. As the Bank is an intermittent stream, work will be performed under dry conditions to minimize potential sediment migration.
310 10.54(4)(a)4	Shall not impair the capacity of the resource to provide breeding habitat, escape cover and food for fisheries;	N/A	The Bank is an intermittent stream and does not support fisheries; therefore, there will be no impacts.
310 CMR 10.54(4)(a)5	Shall not impair the capacity of the resource to provide important wildlife habitat functions;	N/A	The proposed Bank impacts are less than 50 LF and less than 10% of the total Bank length. Therefore, the WPA regulations do not consider this work to adversely affect the wildlife habitat functions of the Bank.



Table 3: Compliance with Performance Standards for Work within BVW

WPA Reference	WPA Performance Standard	Project Compliance	Discussion
310 CMR 10.55(4)(b)1	The “replacement area” shall be equal to the “lost area”;	Yes	The project proposes to impact 2,770 SF of BVW and 5,000 SF of replacement BVW is proposed. This represents a replacement ration of >1:1.
310 CMR 10.55(4)(b)2	The ground water and surface elevation of the replacement area shall be approximately equal to that of the lost area;	Yes	The proposed replacement BVW is located adjacent to an existing BVW and near the filled BVW. It will be located between elevations 209 and 210 which is similar to the wetland area to be filled.
310 10.55(4)(b)3	The horizontal configuration and location of the replacement area shall be similar to the lost area with respect to the bank;	N/A	Neither the filled nor replicated BVW are directly adjacent to or associated with a Bank.
310 CMR 10.55(4)(b)4	The replacement area shall have unrestricted hydraulic connection to the same water body;	Yes	The replacement BVW will have unrestricted hydraulic connection to contiguous areas of unimpacted BVW. The hydraulic connection to an open water body is located offsite and will not be altered.
310 CMR 10.55(4)(b)5	The replacement area shall be located in the same general area;	Yes	The replacement BVW is in the western portion of the Site and in the same general area of the lost BVW.
310 CMR 10.55(4)(b)6	At least 75% of the replacement area shall be reestablished with indigenous wetland plant species within two growing seasons;	Yes	The proposed Wetland Replication Plan schedules indigenous seeding and woody vegetation plantings. This area will be monitored by a Wetland Professional for two growing seasons following the completion of the replacement BVW.
310 CMR 10.55(4)(b)7	The replacement area shall be provided consistent with all other General Performance Standards in Part III of 310 CMR 10.00;	N/A	The filled BVW and replacement area are not associated with other resource areas as identified in Part III of 310 CMR 10.00.

Buffer Zone work is subject to preconstruction review under 310 CMR 10.53(1) General Provisions. The proposed work will not inhibit the interests of the Act for the associated resources area (Bank and BVW).

During construction, the resource areas will be protected by the proper installation and maintenance of sediment control BMPs as shown in **Appendix B, Drawings ES-1**. These controls were designed in compliance with best management practices as described in the Stormwater Drainage Narrative and accompanying Operation and Maintenance Plan.

Following construction, the resource areas will be protected from sedimentation or fertilizer runoff from the fields and parking lot through the ongoing operation of the stormwater management system (**Appendix E**). This design incorporates surface drains to intercept runoff and directs it toward the constructed wetlands and retention systems.

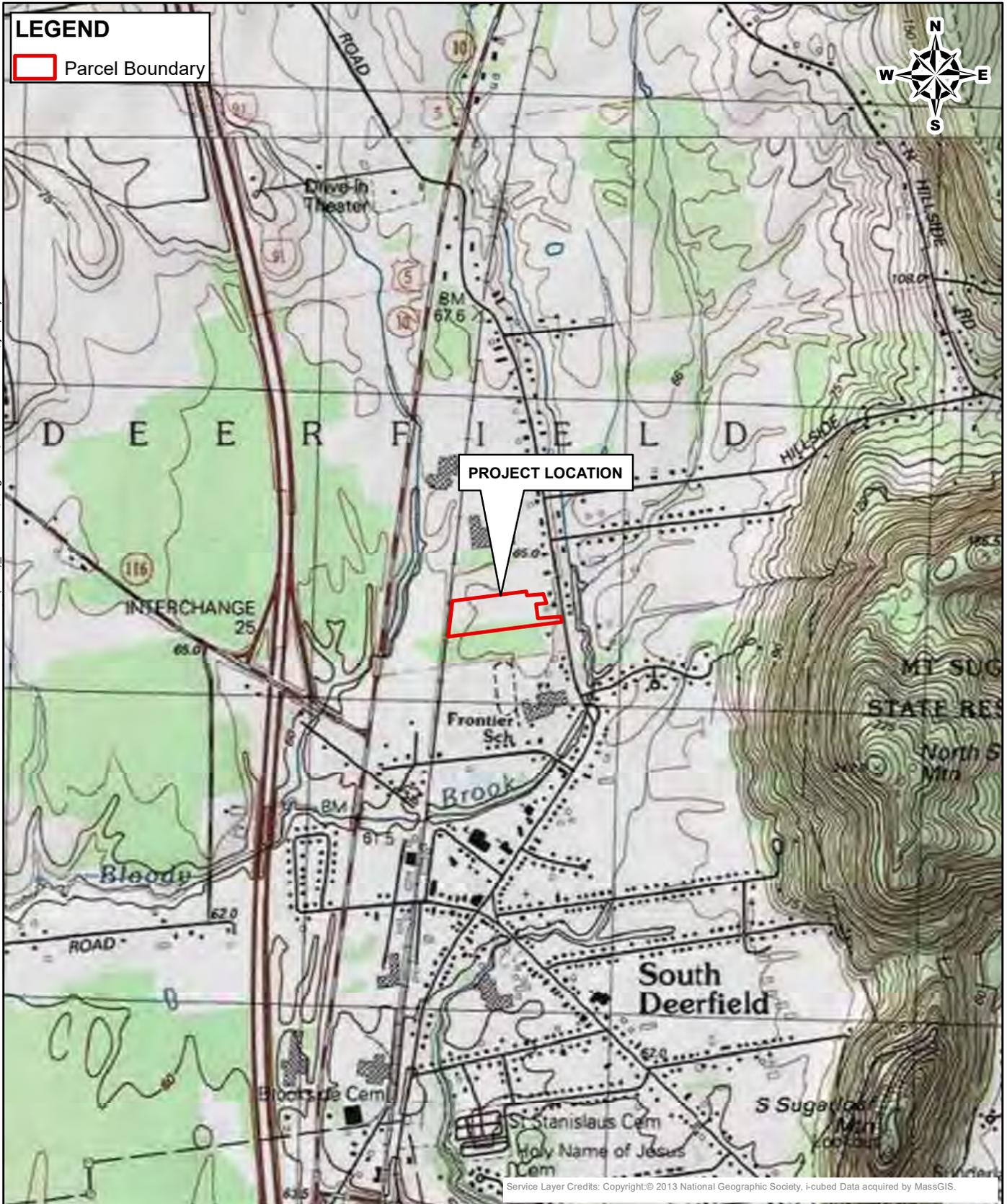


Finally, areas adjacent to resource areas, and throughout the park, native shade trees and other native vegetation will be planted as shown on **Appendix B, Drawings WR-1, and LS-1—LS-3**. This planting schedule is not anticipated to significantly alter the shading of resource areas compared to the existing agricultural condition.



FIGURES

LEGEND
 Parcel Boundary



Service Layer Credits: Copyright: © 2013 National Geographic Society, i-cubed Data acquired by MassGIS.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEORENTOENRAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

0 2,000 4,000



SCALE IN FEET

WETLAND DELINEATION
 NORTH MAIN STREET, DEERFIELD, MA

PREPARED BY:
 **GZA GeoEnvironmental, Inc.**
 Engineers and Scientists
 www.gza.com

PREPARED FOR:
 TOWN OF DEERFIELD
 8 CONWAY STREET
 SOUTH DEERFIELD, MA 01373

LOCUS MAP

PROJ MGR: DMN	REVIEWED BY: DMN	CHECKED BY: DMN	FIG 1
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 2,000 ft	
DATE: 08/13/2020	PROJECT NO: 15.P000082.21	REVISION NO:	

© 2020 - GZA GeoEnvironmental, Inc. J:\0_166800 - 0_166899\15.016680.1.00_North Main St Wetland Reconnaissance Deerfield\GIS\mxd\GZA MA TEMPLATE(10.7)_locus.mxd, August 13, 2020 - 3:46:26 PM, jacquelyn.claver

LEGEND

- Wetland Flag
- Wetland Boundary
- Bank
- 100-ft Buffer Zone
- Bordering Vegetated Wetland
- Parcel Boundary



Service Layer Credits:

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.



DEERFIELD PLAYING FIELDS
NORTH MAIN STREET
DEERFIELD, MA

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF DEERFIELD
8 CONWAY STREET
DEERFIELD, MA

WETLAND RESOURCE MAP

PROJ MGR: ARD	REVIEWED BY: DMN	CHECKED BY: DMN	FIGURE 2
DESIGNED BY: JRC	DRAWN BY: ARD	SCALE: 1 in = 200 ft	
DATE: 02/08/2022	PROJECT NO: 15.0167016.00	REVISION NO:	



APPENDIX A

WPA FORM 3 – NOTICE OF INTENT APPLICATION



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 Number
Document Transaction Number
Deerfield
City/Town

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>0 North Main Street</u>	<u>Deerfield</u>	<u>01373</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.48605</u>	<u>-72.60744</u>	
d. Latitude	e. Longitude	
<u>151</u>	<u>1</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>John</u>	<u>Paciorek</u>	
a. First Name	b. Last Name	
<u>Town of Deerfield</u>		
c. Organization		
<u>8 Conway Street</u>		
d. Street Address		
<u>South Deerfield</u>	<u>MA</u>	<u>01373</u>
e. City/Town	f. State	g. Zip Code
<u>413-665-2036</u>	<u>jpaciorek@police.deerfield.ma.us</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></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Adrienne</u>	<u>Dunk</u>	
a. First Name	b. Last Name	
<u>GZA GeoEnvironmental, Inc.</u>		
c. Company		
<u>1350 Main Street, Suite 1400</u>		
d. Street Address		
<u>Springfield</u>	<u>MA</u>	<u>01002</u>
e. City/Town	f. State	g. Zip Code
<u>201-247-8950</u>	<u>adrienne.dunk@gza.com</u>	
h. Phone Number	i. Fax Number	j. Email address

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

<u>exempt</u>	<u>exempt</u>	<u>exempt</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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 Number

Document Transaction Number

Deerfield

City/Town

A. General Information (continued)

6. General Project Description:

Development of a proposed park and playground that is partially within a wetland resource area and its associated buffer zone.

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)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(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:

Franklin

a. County

7566

c. Book

b. Certificate # (if registered land)

283

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.



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 Number

Document Transaction Number

Deerfield

City/Town

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.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input checked="" type="checkbox"/> Bank	38 1. linear feet	38 2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	2,770 1. square feet	5,000 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	_____ 1. square feet _____ 3. cubic yards dredged	_____ 2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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. <input type="checkbox"/> 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.



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 Number

Document Transaction Number

Deerfield

City/Town

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. 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. Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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 Number

Document Transaction Number

Deerfield

City/Town

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

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 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**

- August 2021
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*

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

2. 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/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.



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 Number

Document Transaction Number

Deerfield

City/Town

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).



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 Number

Document Transaction Number

Deerfield

City/Town

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.



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 Number

Document Transaction Number

Deerfield

City/Town

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.

Proposed Municipal Parks & Fields, North Main Street, South Deerfield, MA

a. Plan Title

ProTerra Design Group, LLC

Jesse Moreno, PE

b. Prepared By

c. Signed and Stamped by

1-25-2022

As Noted

d. Final Revision Date

e. Scale

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:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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 Number

Document Transaction Number

Deerfield

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.

on behalf of Applicant

1. Signature of Applicant

2-4-2022

2. Date

3. Signature of Property Owner (if different)

4. Date

2-4-2022

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:

0 North Main Street

a. Street Address

Not Applicable

c. Check number

Deerfield

b. City/Town

Exempt

d. Fee amount

2. Applicant Mailing Address:

John

a. First Name

Town of Deerfield

c. Organization

8 Conway Street

d. Mailing Address

South Deerfield

e. City/Town

MA

f. State

01373

g. Zip Code

413-665-2036

h. Phone Number

i. Fax Number

jpaciorek@police.deerfield.ma.us

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

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.

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



APPENDIX B
PROJECT PLANS

PROPOSED MUNICIPAL PARK & FIELDS

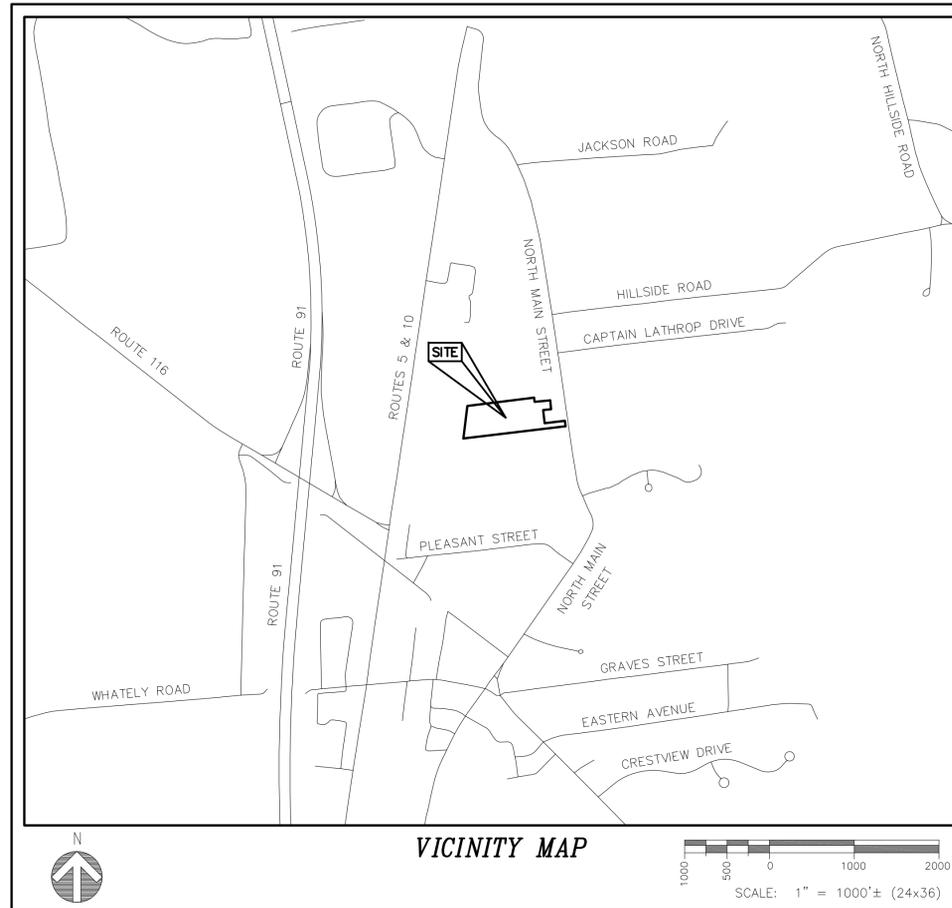
NORTH MAIN STREET SOUTH DEERFIELD, MA

DRAWING LIST

SHEET NUMBER	TITLE
C-1	COVER SHEET
GN-1	GENERAL NOTES
GN-2	NOTES & LEGEND
EC-1 thru EC-2	EXISTING CONDITIONS
R-1	RESOURCE PLAN
S-1 thru S-3	SITE PLANS
GR-1 thru GR-3	GRADING PLANS
UT-1 thru UT-2	UTILITY PLANS
ES-1	EROSION CONTROL PLAN
PH-1	PHOTOMETRIC PLAN
D-1 thru D-10	SITE DETAILS
TM-1	TURNING MOVEMENTS PLAN
WR-1	WETLAND REPLICATION PLAN
SR-1	SITE REMOVALS
LS-1	LANDSCAPE PLAN
LS-2	SEEDING PLAN
LS-3	LANDSCAPE DETAILS AND NOTES

GENERAL NOTES

- THE PLANS HEREIN ARE FOR PERMITTING USE ONLY AND NOT FOR CONSTRUCTION.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND/OR EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY; DIG SAFE SYSTEM: 1-888-344-7233.



APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD
MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373
PH: 413.665.1400 EXT. 111

SITE CIVIL ENGINEER:
PROTERRA DESIGN GROUP, LLC
4 BAY ROAD, BUILDING A, SUITE 200
HADLEY, MA 01035
CONTACT: JESSE MORENO
PH: 413.320.4918

SURVEYOR:
NORTHEAST SURVEY CONSULTANTS
3 FERRY STREET
EASTHAMPTON, MA 01027
PH: 413.203.5144

LANDSCAPE ARCHITECT:
PLACE ALLIANCE
37 SOUTH PLEASANT STREET
SUITE 3-NE
AMHERST, MA 01002
PH: 413.687.1454

WETLAND SCIENTIST:
GZA GEOENVIRONMENTAL, INC.
1350 MAIN STREET
SUITE 1400
SPRINGFIELD, MA 01103
PH: 413.726.2100

NO.	DATE	SUBMISSION/REVISIONS	BY	CHK	APP'D
A	11/16/21	ISSUED FOR REVIEW	STAFF	JMM	JMM
B	11/24/21	ISSUED FOR REVIEW	STAFF	JMM	JMM
C	12/13/21	ISSUED FOR REVIEW	STAFF	JMM	JMM
D	12/13/21	ISSUED FOR REVIEW	STAFF	JMM	JMM
E	01/25/22	CONS COM SUBMITTAL	STAFF	JMM	JMM

STAMP:



OWNER/APPLICANT:

SELECTBOARD
TOWN OF DEERFIELD
MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

PREPARED BY:

ProTerra
DESIGN GROUP, LLC

4 Bay Road, Bldg A Suite 200
Hadley, MA 01035
Ph:(413)320-4918

TITLE:

COVER SHEET

DRAWING NAME.: Deerfield_COV.dwg

JOB NUMBER: 21-006 DATE: JANUARY 25, 2022

DESIGN: STAFF CHECK: JMM

SCALE: AS NOTED SHEET NO.: C-1

GENERAL:

- 1. PROTECTIONS
A. PROVIDE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS, TREES OR VEGETATION.
B. PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AND ON OWNER'S PROPERTY.
C. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
D. CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH OPERATIONS, STREETS, WALKS, AND OTHER ADJACENT FACILITIES.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MASSDOT SPECIFICATIONS FOR HIGHWAYS AND BRIDGES AND/OR THE APPROPRIATE LOCAL AUTHORITIES.
3. ALL SLOPES, UNLESS OTHERWISE SPECIFIED, SHALL BE LOAMED AND SEEDED FOR STABILIZATION AS SOON AS POSSIBLE TO PREVENT EROSION INTO WETLAND RESOURCE AREAS, ABUTTING PROPERTIES, OR PUBLIC WAYS.
4. ANY DEVIATIONS, I.E. "FIELD CHANGES" FROM THE DESIGN PLAN(S) MUST BE APPROVED BY THE DESIGN ENGINEER IN WRITING.
5. PLEASE REFER TO THE "PLAN REFERENCES" AND "NOTES" ON SHEET EC-1 OF THIS SET.
6. RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY.
7. *** DIG SAFE NOTE ***
ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES, IN WRITING, OF THE INTENT TO EXCAVATE, BLAST, DEMOLISH, BORE, OR PERFORM OTHER EARTH MOVING OPERATIONS NO LESS THAN 72 HOURS AND NO MORE THAN 30 DAYS PRIOR TO THE COMMENCEMENT OF SUCH WORK.
8. LOCATION OF UNDERGROUND UTILITIES ON THIS PLAN ARE APPROXIMATE ONLY AND ARE BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPLETIONS.
9. USE OF EXPLOSIVES
A. COMPLY WITH ALL LAWS, RULES AND REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES AND INSURERS WHICH GOVERN STORAGE, USE, MANUFACTURE, SALE, HANDLING, TRANSPORTATION, LICENSING, OR OTHER DISPOSITION OF EXPLOSIVES.
10. ADDITIONAL BENCHMARKS TO BE SET BY CONTRACTOR PRIOR TO CONSTRUCTION TO ENSURE QUALITY WORKMANSHIP.
11. THE PLANS CONTAINED HEREIN SHALL SUPERSEDE ANY AND ALL PREVIOUS DESIGN PREPARED FOR THE SUBJECT SITE.
12. ANY STILLING AND/OR DETENTION BASINS SHOULD RECEIVE PERIODIC MAINTENANCE DURING CONSTRUCTION TO REMOVE DEPOSITED SILTS AND DEBRIS TO ENSURE PROPERTY DRAINAGE AND SETTLING OF PARTICULATE MATTER.
13. ALL MANHOLE COVERS FOR CROSS-COUNTRY LOCATIONS OR IN PUBLIC GATHERING SHALL BE FITTED WITH BOLT LOCKS OR EQUIVALENT.
14. UNLESS OTHERWISE LABELED, ALL REINFORCED CONCRETE PIPE, RCP, SHALL BE CLASS V. ALL DUCTILE IRON PIPE SHALL BE CEMENT LINED CLASS 52; ALL PVC SEWER SHALL BE SDR 35; ALL CORRUGATED PLASTIC PIPE SHALL BE DOUBLE WALLED N-12 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS OR APPROVED EQUAL.

SEQUENCE OF CONSTRUCTION:

- 1. CONTRACTOR MUST PROCEED WITH CONSTRUCTION ACCORDING TO THE CONDITIONS ESTABLISHED BY THE LOCAL PLANNING BOARD, LOCAL CONSERVATION COMMISSION, AND ANY APPLICABLE ENVIRONMENTAL PERMITS INCLUDING BUT NOT LIMITED TO PERMITS UNDER 40A, 40T WATER QUALITY CERTIFICATE ORDERS OF CONDITIONS, CONDITIONS OF SPECIAL PERMIT, AND GROUND WATER DISCHARGE PERMIT.
2. A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND THE ENGINEER IS REQUIRED.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO CONSTRUCTION.
4. REMOVE EXISTING BUILDINGS AND RELATED APPURTENANCES AS INDICATED ON THE PLANS.
5. CONTRACTOR TO ABANDON EXISTING WELLS AND SEPTICS ON THE SITE IN ACCORDANCE WITH LOCAL BOARD OF HEALTH PROCEDURES.
6. ESTABLISH AREAS DESIGNATED FOR REVEGETATION, AERATE AND DECOMPACT SOIL IN PREPARATION FOR PLANTING.
7. CLEAR, GRUB AND GRADE THE SITE AS SHOWN ON THE PLANS, PROVIDE PERMANENT VEGETATIVE COVER AND STABILIZATION IN AREAS WHERE NO FURTHER CONSTRUCTION IS PROPOSED.
8. BEGIN CONSTRUCTION OF THE PROPOSED UTILITIES AND RELOCATION OF EXISTING UTILITIES.
9. STABILIZE ALL SLOPES AND RESTORE VEGETATION DISTURBED DURING CONSTRUCTION.
10. CONTRACTOR TO ABANDON EXISTING WELLS AND SEPTICS ON THE SITE IN ACCORDANCE WITH LOCAL BOARD OF HEALTH PROCEDURES.

SITE WORK:

- 1. CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD.
2. FILL MATERIAL
A. ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, AND DEBRIS PRIOR TO FILL PLACEMENT.
B. PLACE APPROPRIATE FILL MATERIAL AS DESIGNATED BY THE GEOTECHNICAL ENGINEER IN HORIZONTAL LAYERS NOT EXCEEDING EIGHT INCHES (8") IN LOOSE DEPTH AND COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO DENSITY EQUAL TO ORIGINAL ADJACENT GROUND, UNLESS SUBSEQUENT EXCAVATION FOR NEW WORK IS REQUIRED.
3. FINISH GRADING
A. GRADE ALL AREAS WHERE FINISH GRADE ELEVATIONS ARE INDICATED ON DRAWINGS, OTHER THAN PAVED AREAS AND BUILDINGS, INCLUDING EXCAVATED AREAS, FILLED AND TRANSITION AREAS, AND LANDSCAPED AREAS.
4. THE CONTRACTOR IS RESPONSIBLE FOR GENERAL CLEANUP OF THE PROJECT ON A DAILY BASIS AND AT THE COMPLETION OF THE PROJECT.
5. APPROPRIATE TRAFFIC CONTROL, I.E. SIGNAGE, BARRICADES, AND OTHER MEANS, WILL BE SUPPLIED BY THE CONTRACTOR IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL AGENCIES.
6. UNDER NO CIRCUMSTANCES MAY ANY UTILITY, STRUCTURE, AND/OR REPAIR BE BACKFILLED UNLESS INSPECTED AND APPROVED BY THE CITY OFFICIALS AND/OR REPRESENTATIVE.
7. PROPER SHORING AND TRENCH BOXES SHALL BE UTILIZED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES TO PROVIDE A SAFE WORKING ENVIRONMENT.
8. ALL UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. WATER
A. ALL WATER PIPING, VALVES, HYDRANTS, AND FITTINGS ETC. TO CONFORM TO LOCAL GUIDELINES OR AS DIRECTED BY THE WATER DEPARTMENT.
B. ALL WATER PIPE SHALL BE THICKNESS CLASS 52 DUCTILE IRON CEMENT LINED.
C. REFER TO PLUMBING PLANS FOR WATER SERVICE, FIRE PROTECTION, AND SANITARY SEWER CONNECTIONS UNLESS OTHERWISE NOTED.

SEWER NOTES

- 1. THESE NOTES ARE INTENDED TO SUPPLEMENT THE LOCAL REQUIREMENTS FOR MATERIALS AND WORKMANSHIP.
2. WATER AND SEWER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST LOCAL AND STATE CODES INCLUDING THE RECOMMENDATIONS OF THE AMERICAN WATER WORKS ASSOCIATION AND THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION TECHNICAL REPORT 16.
3. THE CONTRACTOR SHALL INSULATE WATER AND SEWER MAINS AS INDICATED ON THE PLANS OR WHEN DESIGN OR CONSTRUCTION ENCUMBRANCES DICTATE ALIGNMENT ABOVE THE FROST LINE.
4. THE CONTRACTOR SHALL FOLLOW ALTERNATE CONSTRUCTION PROCEDURES WHEN DESIGN OR CONSTRUCTION ENCUMBRANCES PREVENT HORIZONTAL SEPARATION OF 10 FEET OR THE ALTERNATE OF 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER AND SEWER MAINS.
5. EACH SEGMENT OF THE SEWER MAIN INCLUDING MANHOLES SHALL BE LEAK TESTED AND OBSERVED BY A REPRESENTATIVE OF THE TOWN AND/OR ENGINEER IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
LEAKAGE TESTS
A. EXFILTRATION TEST:
A.A. PREPARATION OF TEST.
A.B. TEST PROCEDURE.
A.C. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE, IF NECESSARY, AND THE MEASURING TIME OF AT LEAST EIGHT HOURS BEGUN.
A.D. BACKFILLING.
B. VACUUM TEST:
B.A. THE VACUUM TESTING SYSTEM SHALL BE SUPPLIED BY NPC SYSTEMS, INC. OR EQUIVALENT AS APPROVED BY THE ENGINEER.
B.B. A VACUUM OF 10 INCHES OF MERCURY, HG (4.9 PSI), SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF.
B.C. IF THE MANHOLE FAILS THE INITIAL TEST, THE CONTRACTOR SHALL LOCATE THE LEAKS AND MAKE PROPER REPAIRS.
C. LEAKAGE TESTS:
C.A. THE PIPELINES SHALL BE MADE AS NEARLY WATERTIGHT AS PRACTICABLE, AND LEAKAGE TESTS AND MEASUREMENTS SHALL BE MADE AFTER THE PIPELINE HAS BEEN BACKFILLED.
C.B. WHERE THE GROUNDWATER LEVEL IS MORE THAN 1 FT ABOVE THE TOP OF THE PIPE AT ITS UPPER END, THE CONTRACTOR SHALL CONDUCT EITHER INFILTRATION TESTS OR LOW PRESSURE AIR TESTS.
C.C. WHERE THE GROUNDWATER LEVEL IS LESS THAN 1 FT. ABOVE THE TOP OF THE PIPE AT ITS UPPER END, THE CONTRACTOR SHALL CONDUCT EITHER EXFILTRATION TESTS OR LOW PRESSURE AIR TESTS.
C.D. AT THE TIME OF THE TEST, THE CONTRACTOR SHALL DETERMINE THE GROUNDWATER ELEVATION FROM OBSERVATION WELLS, EXCAVATIONS OR OTHER MEANS, ALL SUBJECT TO REVIEW BY THE ENGINEER.
C.E. FOR MAKING THE LOW PRESSURE AIR TESTS, THE CONTRACTOR SHALL USE EQUIPMENT SPECIFICALLY DESIGNED AND MANUFACTURED FOR THE PURPOSE OF TESTING SEWER PIPELINES USING LOW PRESSURE AIR.
C.F. THE LEAKAGE TEST USING LOW PRESSURE AIR SHALL BE MADE ON EACH MANHOLE-TO-MANHOLE SECTION OF PIPELINE AFTER PLACEMENT OF THE BACKFILL.
C.G. PNEUMATIC PUGS SHALL HAVE A SEALING LENGTH EQUAL TO OR GREATER THAN THE DIAMETER OF THE PIPE TO BE TESTED.
C.H. ALL AIR USED SHALL PASS THROUGH A SINGLE CONTROL PANEL.
C.I. LOW PRESSURE AIR SHALL BE INTRODUCED INTO THE SEALED LINE UNTIL THE INTERNAL AIR PRESSURE REACHES 4 PSIG.
C.J. AT LEAST TWO MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE IN THE SECTION UNDER TEST.
PIPE DIAMETER IN INCHES VS. MINUTES
6" 5.0 MIN. 40 SEC.
7" 7.0 MIN. 34 SEC.
8" 7.0 MIN. 34 SEC.
10" 9.0 MIN. 26 SEC.
12" 11.0 MIN. 20 SEC.
15" 14.0 MIN. 10 SEC.
16" 17.0 MIN. 0 SEC.
21" 19.0 MIN. 50 SEC.
24" 22.0 MIN. 40 SEC.
27" 25.0 MIN. 30 SEC.
C.K. FOR MAKING THE INFILTRATION AND EXFILTRATION TESTS, THE CONTRACTOR SHALL FURNISH SUITABLE TEST PLUGS, WATER PUMPS, AND APPURTENANCES, AND ALL LABOR REQUIRED TO PROPERLY CONDUCT THE TESTS ON SECTIONS OF ACCEPTABLE LENGTH.
C.L. FOR MAKING THE INFILTRATION TESTS, UNDERDRAINS, IF USED, SHALL BE PLUGGED AND OTHER GROUNDWATER DRAINAGE SHALL BE STOPPED TO PERMIT THE GROUNDWATER TO RETURN TO ITS NORMAL LEVEL INSOFAR AS PRACTICABLE.
C.M. UPON COMPLETION OF A SECTION OF THE SEWER, THE CONTRACTOR SHALL DEWATER IT AND CONDUCT A SATISFACTORY TEST TO MEASURE THE INFILTRATION FOR AT LEAST 24 HOURS.
C.N. FOR MAKING THE EXFILTRATION TESTS, THE SEWERS SHALL BE SUBJECTED TO AN INTERNAL PRESSURE BY PLUGGING THE PIPE AT THE LOWER END AND THEN FILLING THE PIPELINES AND MANHOLES WITH CLEAN WATER TO A HEIGHT OF 2 FT. ABOVE THE TOP OF THE SEWER AT ITS UPPER END.
C.O. THE RATE OF LEAKAGE FROM THE SEWERS SHALL BE DETERMINED BY MEASURING THE AMOUNT OF WATER REQUIRED TO MAINTAIN THE LEVEL 2 FT. ABOVE THE TOP OF THE PIPE.
C.P. LEAKAGE FROM THE SEWERS UNDER TEST SHALL NOT EXCEED THE REQUIREMENTS FOR LEAKAGE INTO SEWERS AS HEREIN BEFORE SPECIFIED.
C.Q. THE SEWERS SHALL BE TESTED BEFORE ANY CONNECTIONS ARE MADE TO BUILDINGS.
C.R. THE CONTRACTOR SHALL CONSTRUCT WEIRS OR OTHER MEANS OF MEASUREMENTS AS MAY BE REQUIRED.
C.S. SUITABLE BULKHEADS SHALL BE INSTALLED, AS REQUIRED, TO PERMIT THE TEST OF THE SEWER.
C.T. SHOULD THE SECTIONS UNDER TEST FAIL TO MEET THE REQUIREMENTS, THE CONTRACTOR SHALL DO ALL WORK OF LOCATING AND REPAIRING LEAKS AND RETESTING AS THE ENGINEER MAY REQUIRE WITHOUT ADDITIONAL COMPENSATION.
C.U. IF, IN THE JUDGMENT OF THE ENGINEER, IT IS IMPRACTICABLE TO FOLLOW THE FOREGOING PROCEDURES FOR ANY REASON, ACCEPTABLE MODIFICATIONS IN THE PROCEDURES SHALL BE MADE AS REQUIRED, BUT IN ANY EVENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ULTIMATE TIGHTNESS OF THE LINE WITHIN THE ABOVE TEST REQUIREMENTS.

CONCRETE AND REINFORCING STEEL NOTES:

- 1. GENERAL
- ALL STRUCTURAL DRAWINGS ARE TO BE USED WITH THE ENTIRE SET OF DRAWINGS.
- ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR DISSEMINATION OF ALL REVISIONS AND REQUIREMENTS TO THE SUBCONTRACTORS.
- REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF ALL DRAWINGS AND SPECIFICATIONS, HOWEVER THE ENGINEER DOES NOT GUARANTEE AGAINST HUMAN ERROR AND FOR THAT REASON IT IS IMPERATIVE THAT THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND DETAILS AND MUST VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE.
2. CODE CONFORMANCE
- TO COMPLY WITH THE LATEST RECOMMENDATIONS OF THESE STANDARDS.
- ACI 301- "STRUCTURAL CONCRETE FOR BUILDINGS"
- ACI 315- "DETAILING CONCRETE WORK"
- ACI 318- "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- ACI 322- "BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN CONCRETE"
- ACI 347- "FORM WORK"
3. MATERIALS
CONCRETE:
- APPROVED, READY MIXED CONCRETE HAVING AN MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,500 PSI AT 28 DAYS WITH 3/4" AGGREGATE MAX. (3/8" AGGREGATE MAY BE USED FOR SIDEWALK MIX), SLUMP 3-5 INCHES UNLESS OTHERWISE NOTED.
- PROVIDE AIR-ENTRAINMENT ADMIXTURE (6% ±1% ALLOWABLE) TO AID THE FREEZE/THAW RESISTANCE OF ALL EXPOSED CONCRETE.
- CONCRETE SHALL BE SEALED WITH DOT APPROVED COATING OR EQUAL AFTER CURE.
- UNLESS NOTED OTHERWISE, ALL CONCRETE TO HAVE TROWELED EDGES WITH BRISTLE BROOM FINISH.
REINFORCING STEEL:
- ASTM A615 GRADE 60 DEFORMED BARS. ASTM A185 WELDED WIRE FABRIC.
FORM WORK:
- SMOOTH PLYWOOD FORMS FOR EXPOSED SLABS OR VERTICAL SURFACES. BOARD FORMS FOR FOOTINGS OR UNEXPOSED CONCRETE SURFACES. NO EARTH FORMS PERMITTED.
GROUT:
- NONMETALLIC, NON-SHRINK GROUT UNDER BASE PLATES OR BEARING PLATES
4. EXECUTION
CONCRETE:
- PLACE CONCRETE ACCORDING TO THE APPROVED METHODS OF ACI 301.89. STRENGTH (f'c) OF 4,500 PSI AT 28 DAYS, SLUMP 3-5 INCHES UNLESS OTHERWISE NOTED WITH MAXIMUM 3/4 INCH AGGREGATE AND 6% AIR ENTERTAINMENT FOR EXTERIOR CONCRETE EXPOSED TO MOISTURE.
REINFORCING STEEL:
- PLACE REINFORCING USING STANDARD BAR SUPPORTS TO PROVIDE PROPER CLEARANCE AND PREVENT DISPLACEMENT DURING CONCRETE OPERATIONS. LAP CONTINUOUS BARS 40 DIAMETERS.
PROVIDE THE FOLLOWING MINIMUM CONCRETE COVERAGE:
- 3" CONCRETE PLACED AGAINST EARTH
- 2" FORMED CONCRETE EXPOSED TO EARTH, WEATHER, OR WATER
- 2" SLABS ON GRADE (MINIMUM FROM TOP)
- 2" FRAMED SLABS (NOT EXPOSED TO WEATHER)
- 2" FRAMED SLABS (EXPOSED TO WEATHER)
- PLACE DEFORMED BARS IN ACCORDANCE WITH THE LATEST EDITION OF CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS" ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185. LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3"-0" ON CENTER. PROVIDE (2) #5 BARS EACH SIDE OF ALL OPENINGS IN WALLS AND SLABS. BARS TO EXTEND 24" BEYOND EDGE OF OPENINGS. (FOR SIZE AND LOCATION OF OPENINGS REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS).
- NO HORIZONTAL CONSTRUCTION JOINTS ARE ALLOWED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR ALLOWED IN WRITING BY THE ENGINEER.
- ALL GROUT FOR BASE PLATES SHALL BE NON-SHRINK AND NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
REINFORCING BAR EMBEDMENT LENGTH STANDARD HOOK
#4 12" 12"
#5 12" 12"
#6 12" 12"
#7 16" 16"
#8 20" 20"
FORM WORK:
- PROPERLY BRACE AND SHORE FORM WORK TO MAINTAIN ALIGNMENT AND TOLERANCES IN ACCORDANCE TO ACI 347.
- DETAILS NOT SHOWN IN DRAWINGS SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL (ACI 315).
5. QUALITY CONTROL
- CONTRACTOR SHALL MAKE PROVISIONS TO HAVE FOUR CYLINDERS CAST FOR EACH (50) CUBIC FEET OF CONCRETE POURED OR FOR ANY ONE DAY OPERATION.
- TESTING LABORATORY SHALL BE RESPONSIBLE FOR MAKING AND CURING SPECIMENS IN CONFORMANCE TO ASTM C31 AND TESTING SPECIMENS IN ACCORDANCE TO ASTM C39.
6. EXCAVATION & COMPACTED FILL
- COMPACTED FILL SHALL BE PLACED IN LEVEL, UNIFORM LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS AND BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- FILL TO CONFORM TO THE PROJECT SPECIFICATIONS FOR STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER, BACKFILL AND EXCAVATION TO BE COMPLETED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER.
7. EXPANSION, CONTRACTION, AND CONSTRUCTION JOINTS
- CONTRACTOR SHALL PROVIDE CONTRACTION JOINTS IN WALLS AND SLABS NOT TO EXCEED 20' (OR EQUALLY SPACED) AND EXPANSION JOINTS NOT TO EXCEED 90' (IF APPLICABLE)
- ALL CONSTRUCTION JOINTS SHALL HAVE ROUGHENED, KEYED, AND/OR BONDING AGENT APPLIED TO THE CONCRETE LAYING SURFACES AS DIRECTED BY THE ENGINEER OR TO THE MOST STRINGENT ACI 318 STANDARDS
8. CONCRETE FINISHING
- ALL EXPOSED CONCRETE SHALL BE FINISHED TO PROJECT ARCHITECTURAL STANDARDS OR AS DIRECTED BY THE ENGINEER
- ALL VOIDS, POCKETS, AND DEFORMATIONS IN THE EXPOSED FACE OF WALL SHALL BE CORRECTED TO A SMOOTH, UNIFORM FINISH OR AS DIRECTED BY THE ENGINEER

SOIL COMPACTION NOTES:

- 1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C. 3RD PARTY PROCTOR AND NUCLEAR DENSITY TESTING MAY BE REQUIRED.
4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 6" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED MEETING GRADATIONS AS LISTED ON THE PLANS OR WITHIN THE GEOTECHNICAL REPORT.
5. SITE PREPARATION, OVER-EXCAVATION (IF REQUIRED), GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY OTHERS.
SEEDING
1. ALL UNSURFACED AREAS ARE TO RECEIVE TOPSOIL SEED AND MULCH AS REQUIRED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
2. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS CONTRACTOR SHALL PROVIDE KENTUCKY 31 FESCUE WITH 95% PURITY AND A GERMINATION OF 90% FOR QUICK - COVER GRASSES ONLY. ANNUAL RYE GRASS WITH GERMINATION OF 90% SHALL BE USED UNLESS NOTED OTHERWISE ON THE DRAWINGS. FOR HIGHWAY RIGHT-OF-WAY AREAS, USE D.O.T. APPROVED GRASS ONLY. SEED TO BE APPLIED AT A RATE OF 10 LBS./1,000 S.F. WITH MULCH AT A RATE OF 75 LBS. PER 1,000 S.F. AFTER SEEDING.
3. ALL SLOPES UNLESS OTHERWISE SPECIFIED, SHALL BE LOAMED AND SEEDED. SLOPES 2H:1V SHALL BE PROTECTED FROM EROSION WITH AN EROSION CONTROL BLANKET. EROSION BLANKET SHALL BE "NORTH AMERICAN GREEN" S-1508N OR EQUIVALENT. SLOPES MAY NOT EXCEED 2H:1V UNLESS OTHERWISE NOTED.
4. AS AN ALTERNATIVE TO EROSION CONTROL BLANKET, CONTRACTOR MAY OPT TO UTILIZE SEED AND TACKIFIER APPLIED WITH HYDROSEED METHOD.



4 Bay Road, Bldg A Suite 200 Hadley, MA 01035 Ph: (413)320-4918

CONSULTANT:

Table with 2 columns: NO., DATE. Rows A-E with revision details.

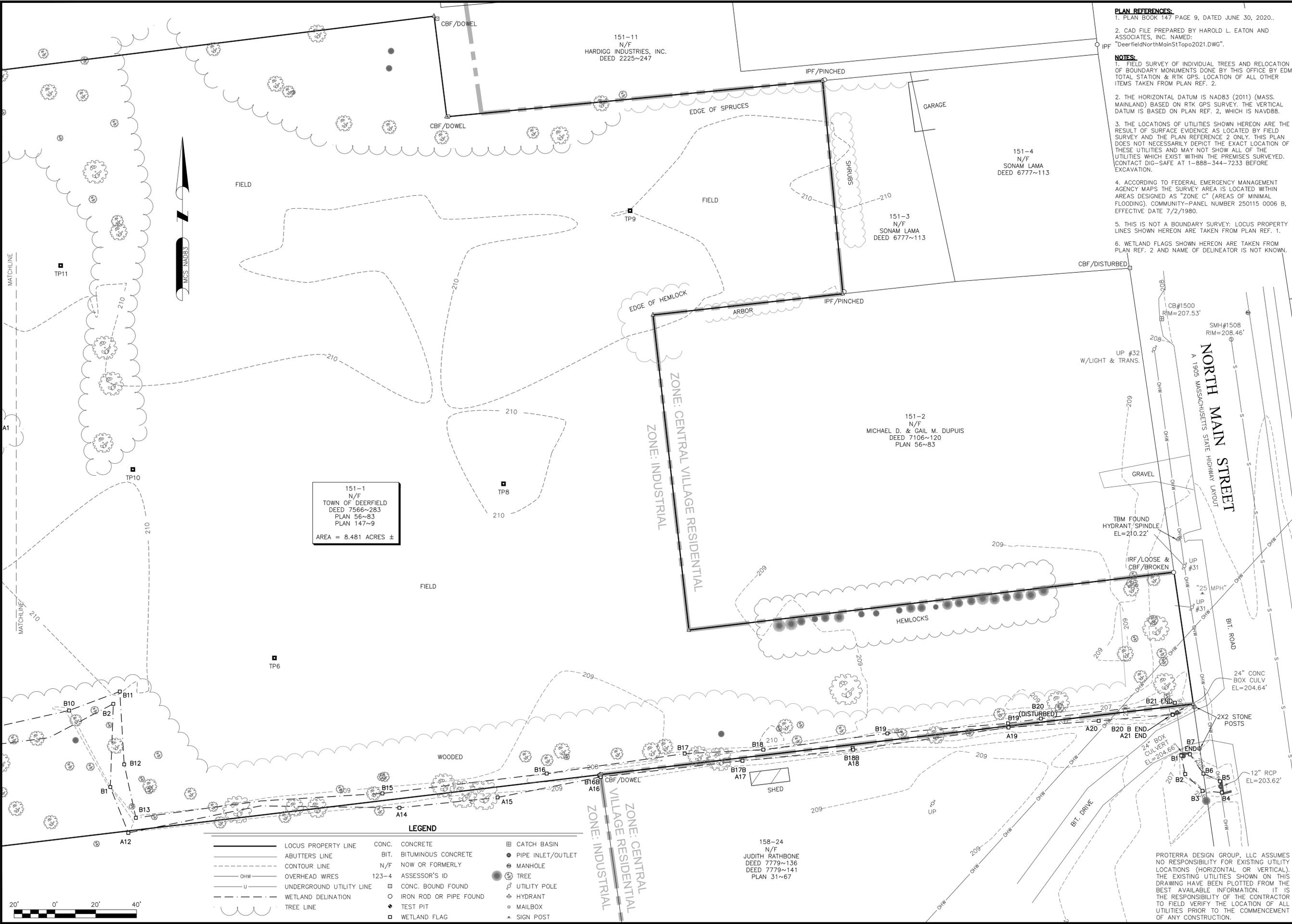
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET, SOUTH DEERFIELD, MA
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET SOUTH DEERFIELD, MA 01878
OWNER/APPLICANT: SELECTBOARD

STAMP:



DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 211-006

SHEET TITLE: GENERAL NOTES GN-1



PLAN REFERENCES:
 1. PLAN BOOK 147 PAGE 9, DATED JUNE 30, 2020.
 2. CAD FILE PREPARED BY HAROLD L. EATON AND ASSOCIATES, INC. NAMED: "DeerfieldNorthMainStTopo2021.DWG".

NOTES:
 1. FIELD SURVEY OF INDIVIDUAL TREES AND RELOCATION OF BOUNDARY MONUMENTS DONE BY THIS OFFICE BY EDM TOTAL STATION & RTK GPS. LOCATION OF ALL OTHER ITEMS TAKEN FROM PLAN REF. 2.
 2. THE HORIZONTAL DATUM IS NAD83 (2011) (MASS. MAINLAND) BASED ON RTK GPS SURVEY. THE VERTICAL DATUM IS BASED ON PLAN REF. 2, WHICH IS NAVD88.
 3. THE LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY AND THE PLAN REFERENCE 2 ONLY. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE AT 1-888-344-7233 BEFORE EXCAVATION.
 4. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS THE SURVEY AREA IS LOCATED WITHIN AREAS DESIGNATED AS "ZONE C" (AREAS OF MINIMAL FLOODING). COMMUNITY-PANEL NUMBER 250115 0006 B. EFFECTIVE DATE 7/2/1980.
 5. THIS IS NOT A BOUNDARY SURVEY; LOCUS PROPERTY LINES SHOWN HEREON ARE TAKEN FROM PLAN REF. 1.
 6. WETLAND FLAGS SHOWN HEREON ARE TAKEN FROM PLAN REF. 2 AND NAME OF DELINEATOR IS NOT KNOWN.

151-1
 N/F
 TOWN OF DEERFIELD
 DEED 7566~283
 PLAN 56~83
 PLAN 147~9
 AREA = 8.481 ACRES ±

LEGEND

—	LOCUS PROPERTY LINE	CONC.	CONCRETE	▣	CATCH BASIN
- - -	ABUTTERS LINE	BIT.	BITUMINOUS CONCRETE	●	PIPE INLET/OUTLET
---	CONTOUR LINE	N/F	NOW OR FORMERLY	⊙	MANHOLE
---	OVERHEAD WIRES	123-4	ASSESSOR'S ID	⊕	UTILITY POLE
---	UNDERGROUND UTILITY LINE	▣	CONC. BOUND FOUND	⊕	HYDRANT
---	WETLAND DELINATION	○	IRON ROD OR PIPE FOUND	⊕	MAILBOX
---	TREE LINE	◆	TEST PIT	▲	SIGN POST
---		□	WETLAND FLAG		

ProTerra
 DESIGN GROUP, LLC

4 Bay Road, Bldg A
 Suite 200
 Hadley, MA 01035
 Ph: (413)320-4918

CONSULTANTS:
 NORTHEAST SURVEY
 CONSULTANTS

3 Ferry Street
 Studio 1 East
 Easthampton, MA 01027
 (413) 203-5144
 northeastsurvey.com

NO.	DATE	REVISIONS
A	09/17/21	ISSUED FOR PRELIM REVIEW
B	10/09/21	ISSUED FOR PRELIM REVIEW
C	12/09/21	ISSUED FOR REVIEW
D	10/17/22	REMOVE C-SERIES WETS

TITLE: PROPOSED MUNICIPAL PARK & FIELDS
 NORTH MAIN STREET,
 SOUTH DEERFIELD, MA

OWNER/APPLICANT: TOWN OF DEERFIELD, MUNICIPAL OFFICES
 8 CONWAY STREET
 SOUTH DEERFIELD, MA 01873

STAMP:

BRIAN C. FRANETOVICH
 MA PLS #54258

BRIAN C. FRANETOVICH
 MA PLS #54258

DATE: 01/21/2022
DRAWN: BCF/JDG
CHECK: BCF
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:
 EXISTING
 CONDITIONS
 EC-1

PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

PRO TERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

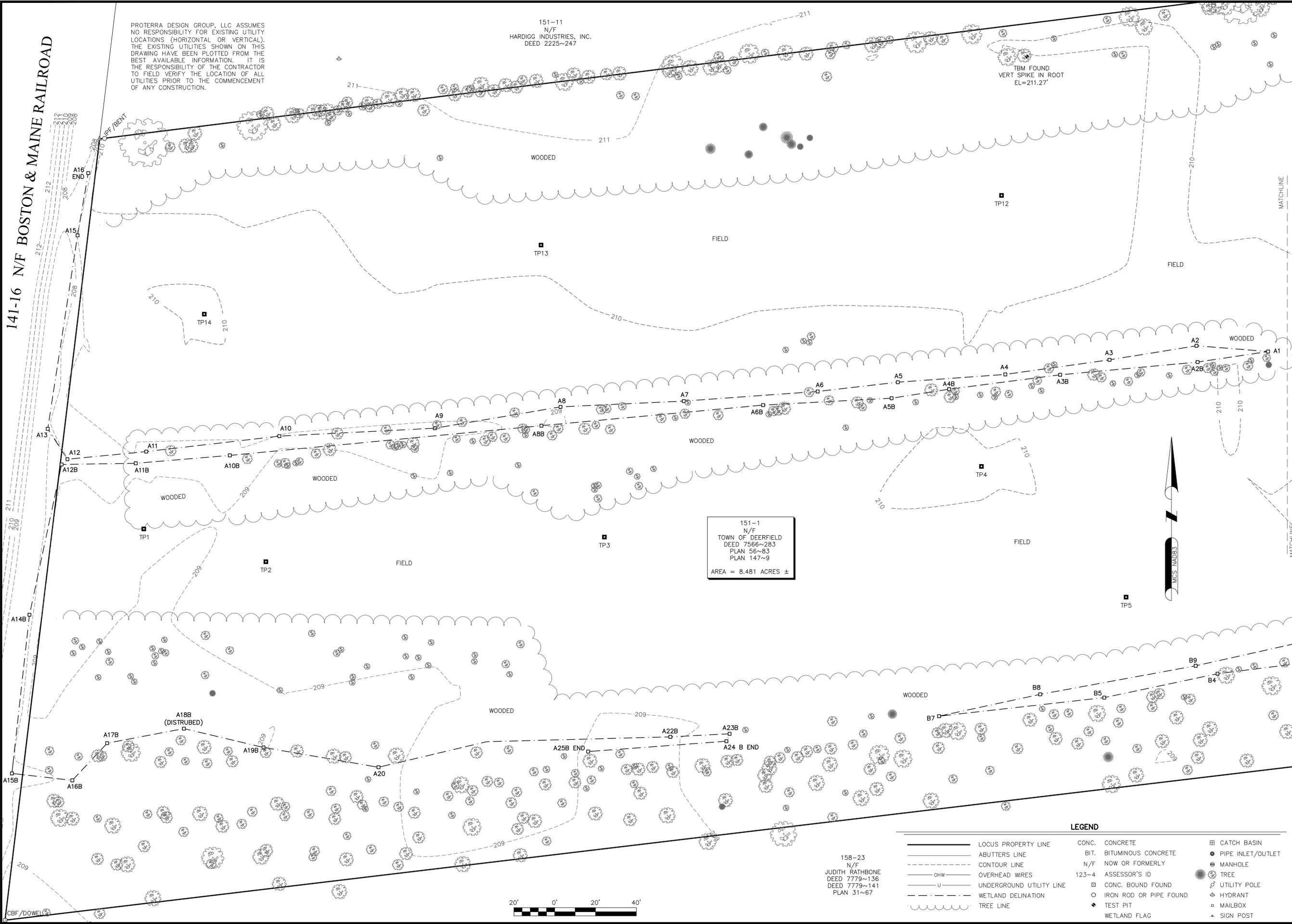
151-11
N/F
HARDIGG INDUSTRIES, INC.
DEED 2225~247

151-1
N/F
TOWN OF DEERFIELD
DEED 7566~283
PLAN 56~83
PLAN 147~9
AREA = 8.481 ACRES ±

158-23
N/F
JUDITH RATHBONE
DEED 7779~136
DEED 7779~141
PLAN 31~67

TBM FOUND
VERT SPIKE IN ROOT
EL=211.27'

141-16 N/F BOSTON & MAINE RAILROAD



LEGEND			
—	LOCUS PROPERTY LINE	CONC.	CONCRETE
—	ABUTTERS LINE	BIT.	BITUMINOUS CONCRETE
---	CONTOUR LINE	N/F	NOW OR FORMERLY
---	OVERHEAD WIRES	123-4	ASSESSOR'S ID
---	UNDERGROUND UTILITY LINE	□	CONC. BOUND FOUND
---	WETLAND DELINATION	○	IRON ROD OR PIPE FOUND
---	TREE LINE	◆	TEST PIT
		◆	WETLAND FLAG
■	CATCH BASIN	⊗	PIPE INLET/OUTLET
⊗	MANHOLE	⊗	TREE
⊗	UTILITY POLE	⊗	HYDRANT
⊗	MAILBOX	⊗	SIGN POST

ProTerra
DESIGN GROUP, LLC

4 Bay Road, Bldg A
Suite 200
Hadley, MA 01035
Ph: (413)320-4918

CONSULTANTS:
NORTHEAST SURVEY CONSULTANTS

3 Ferry Street
Studio 1 East
Easthampton, MA 01027
(413) 203-5144
northeastsurvey.com

NO.	DATE	REVISIONS
A	09/17/21	ISSUED FOR PRELIM REVIEW
B	10/09/21	ISSUED FOR PRELIM REVIEW
C	12/09/21	ISSUED FOR REVIEW
D	10/21/22	REMOVE C-SERIES WETS

TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01873

STAMP:

BRIAN C. FRANETOVICH
MA PLS #54258

DATE: 01/21/2022
DRAWN: BCF JDG
CHECK: BCF
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:
EXISTING CONDITIONS
EC-2

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

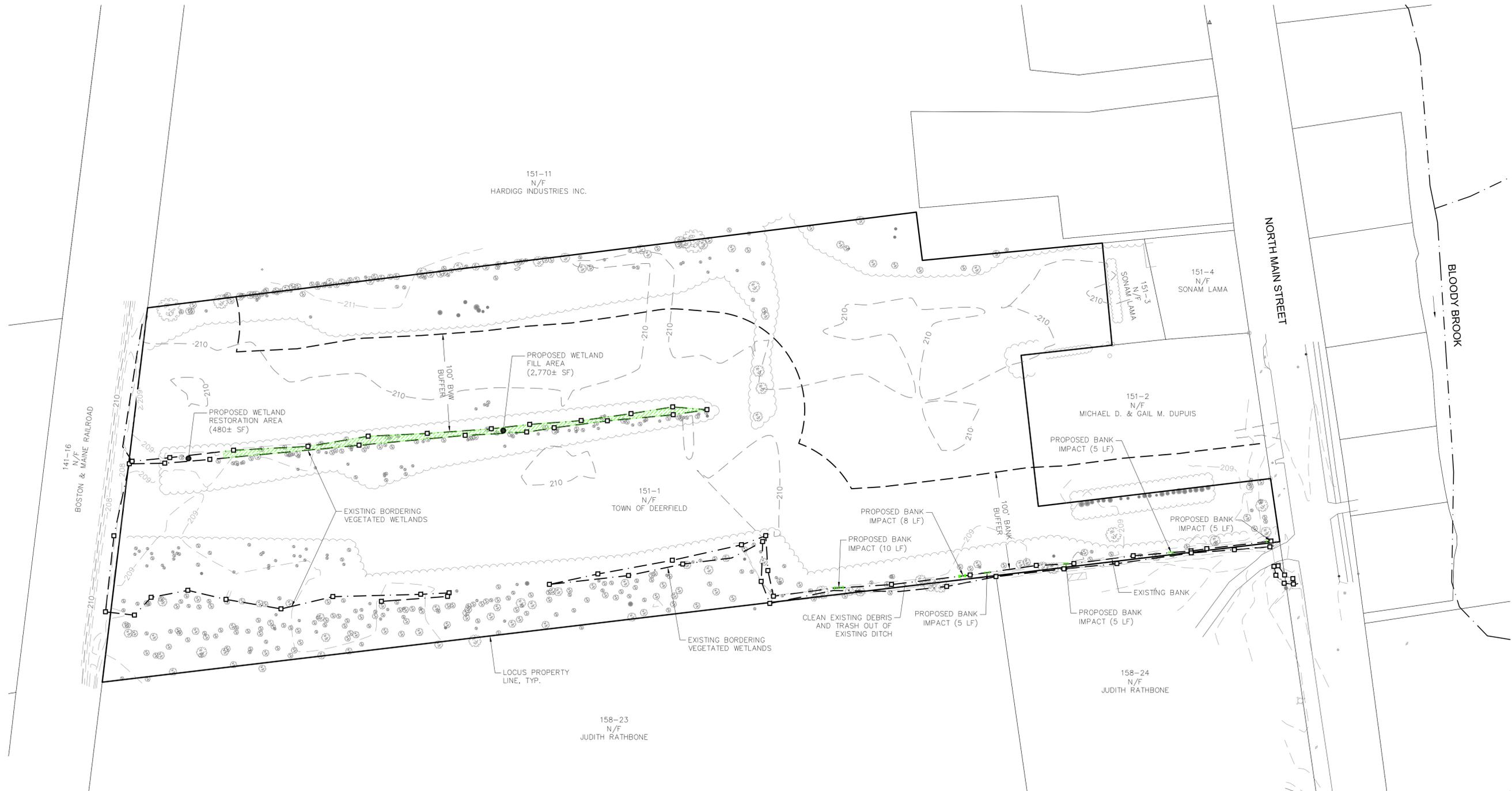


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

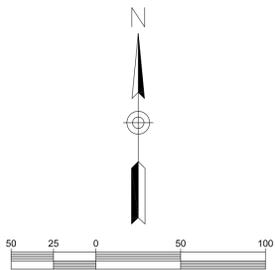
SHEET TITLE:

RESOURCE PLAN

R-1



NOTE:
WETLAND DELINEATION PERFORMED BY GZA GEOENVIRONMENTAL, INC. ON NOVEMBER 6, 2019 & AGAIN ON AUGUST 12, 2020.



PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

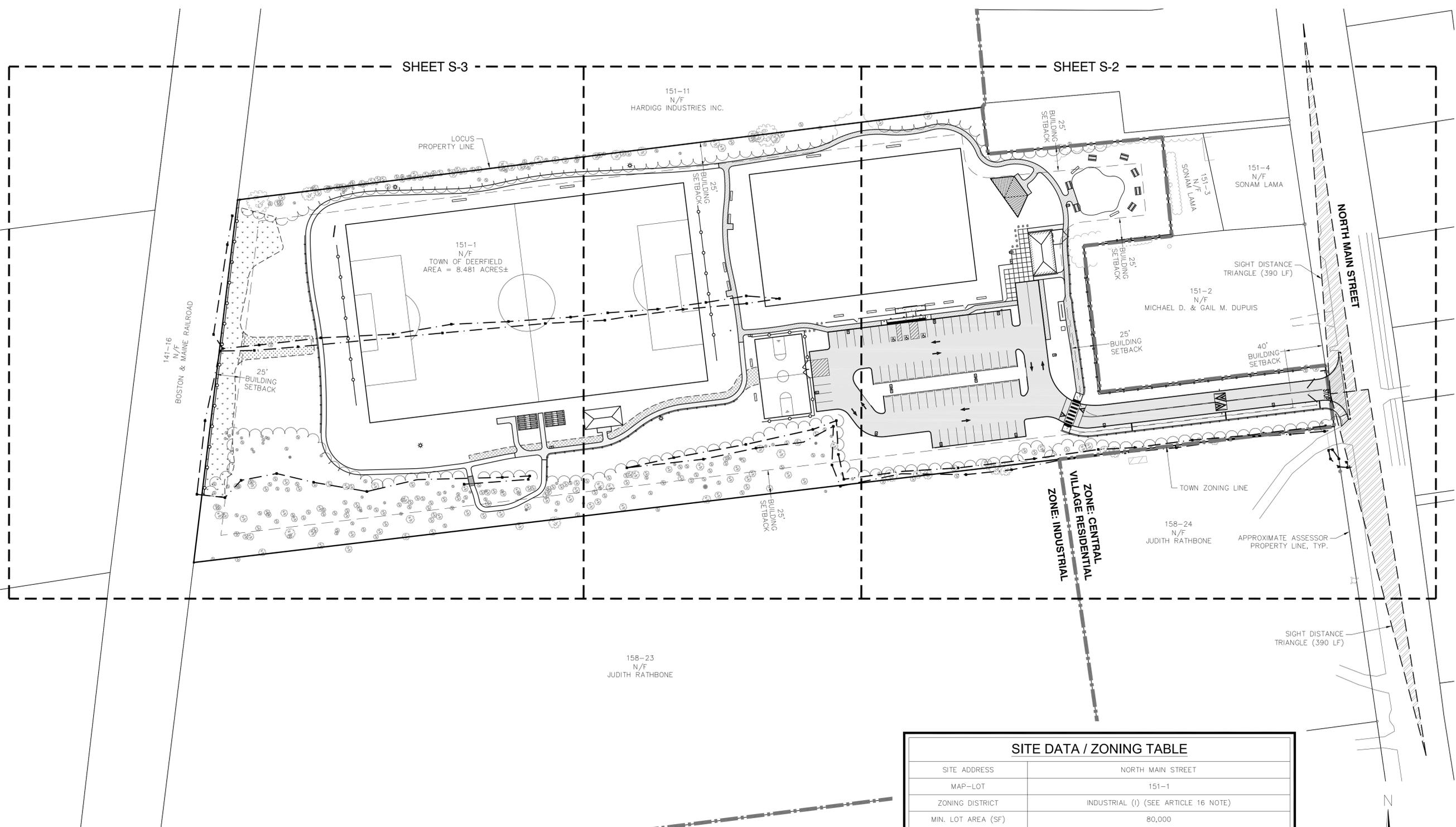
OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:



DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:
OVERALL SITE PLAN



LEGEND

- LOCUS PROPERTY LINE
- ABUTTER PROPERTY LINE
- BUILDING SETBACK LINE
- PROPOSED STANDARD CONCRETE CURB
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED POROUS PAVEMENT/PAVERS
- PROPOSED STANDARD BITUMINOUS PAVEMENT (PATH/WALK)
- PROPOSED REINFORCED TURF (FIRE DEPARTMENT ACCESS)

ARTICLE 8

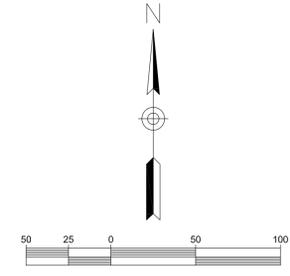
VOTED TO REDUCE THE MINIMUM FRONTAGE REQUIREMENT TO 50 FEET IN THE CENTER VILLAGE RESIDENTIAL DISTRICT (CVRD), SMALL-BUSINESS DISTRICT (C-1), AND INDUSTRIAL DISTRICT (I) TO 50 FEET ON OCTOBER 4, 2021.

ARTICLE 16

VOTED TO AUTHORIZE THE SELECTBOARD TO PURCHASE, ACQUIRE OR TAKE BY EMINENT DOMAIN, THE PARCEL OF LAND IDENTIFIED AS APPROXIMATELY 8.5 ACRES +/- IDENTIFIED IN THE ASSESSORS RECORDS AS MAP 151 LOT 1 AND OWNED BY JOYCE H. PERVERE BY DEED RECORDED IN THE FRANKLIN COUNTY REGISTRY OF DEEDS, BOOK 2635, PAGE 326, AND TO RAISE AND APPROPRIATE, BY TRANSFER, BORROWING OR OTHERWISE THE AMOUNT OF \$272,000.00 TO FUND SAID ACQUISITION; SAID ACQUISITION OF LAND HAVING BEEN DETERMINED TO BE NECESSARY FOR THE HEALTH AND WELFARE OF THE INHABITANTS OF DEERFIELD TO BE USED FOR GENERAL RECREATIONAL PURPOSES TO BE UNDER THE CARE, CUSTODY AND CONTROL OF THE SELECTBOARD.

SITE DATA / ZONING TABLE

SITE ADDRESS	NORTH MAIN STREET	
MAP-LOT	151-1	
ZONING DISTRICT	INDUSTRIAL (I) (SEE ARTICLE 16 NOTE)	
MIN. LOT AREA (SF)	80,000	
MIN. LOT FRONTAGE	50' (SEE ARTICLE 8 NOTE)	
MIN. FRONT SETBACK	40'	
MIN. SIDE SETBACK	25'	
MIN. REAR SETBACK	25'	
MAX. LOT COVERAGE BY IMPERVIOUS SURFACES	60%	
	EXISTING	PROPOSED
LOT USE	AGRICULTURAL FIELD	PARK & PLAY FIELDS
LOT COVERAGE BY IMPERVIOUS SURFACES	0%	12.3%±
PARKING STALLS	0 STALLS	66 STANDARD STALLS 3 ADA STALLS 2 BUS STALLS 15 BIKE STALLS
SPECIAL CONSIDERATION (VARIANCE) SHALL BE REQUIRED FOR THE HANGING ENTRANCE SIGN.		



PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01878

STAMP:

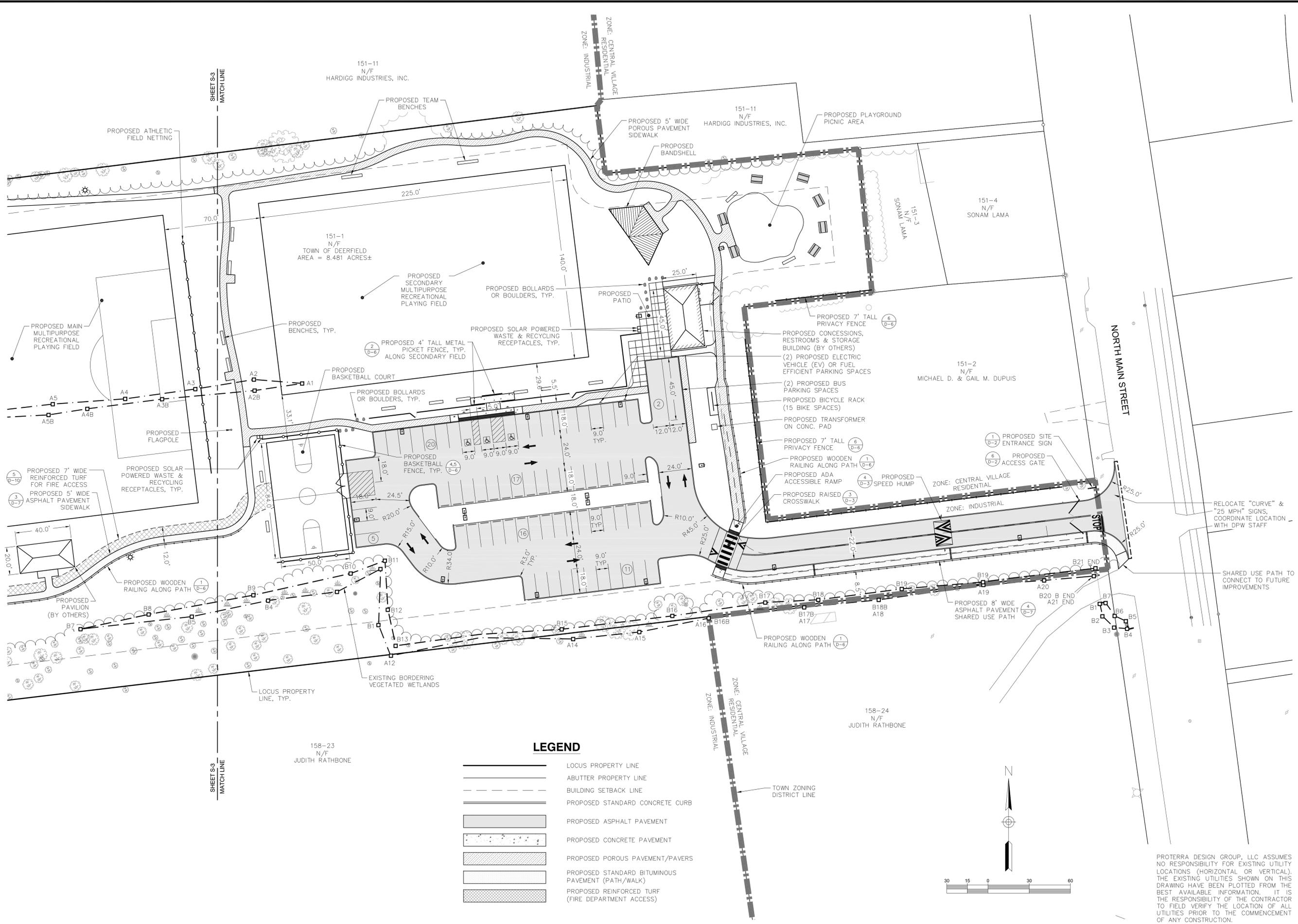


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:

**DETAILED
SITE PLAN**

S-2



LEGEND

- LOCUS PROPERTY LINE
- ABUTTER PROPERTY LINE
- BUILDING SETBACK LINE
- PROPOSED STANDARD CONCRETE CURB
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED POROUS PAVEMENT/PAVERS
- PROPOSED STANDARD BITUMINOUS PAVEMENT (PATH/WALK)
- PROPOSED REINFORCED TURF (FIRE DEPARTMENT ACCESS)

PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

TITLE: PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT: SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01873

STAMP:

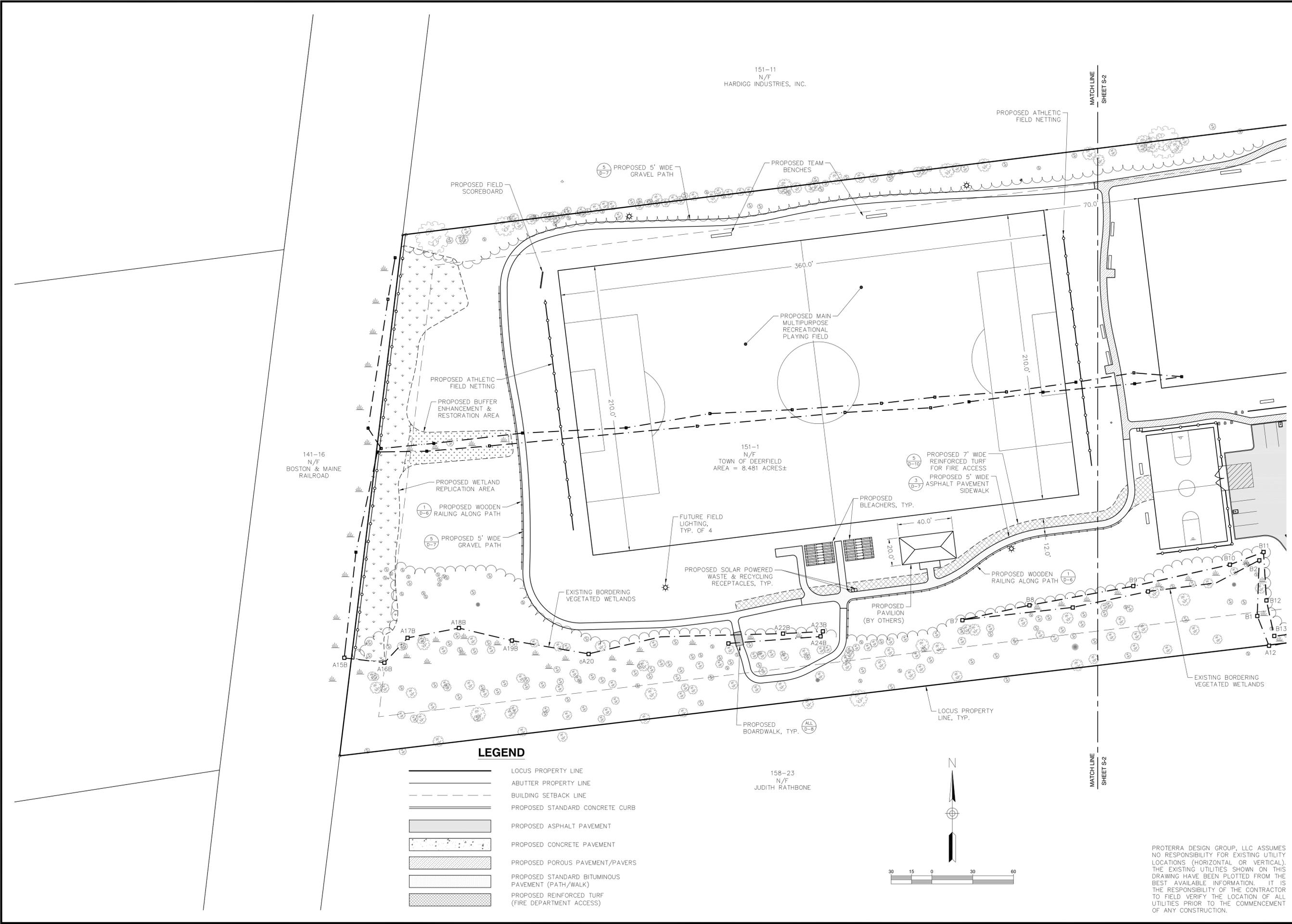


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:

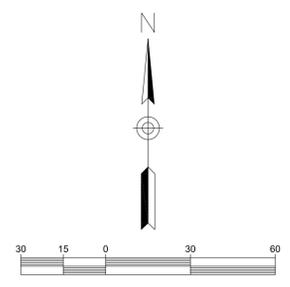
**DETAILED
SITE PLAN**

S-3

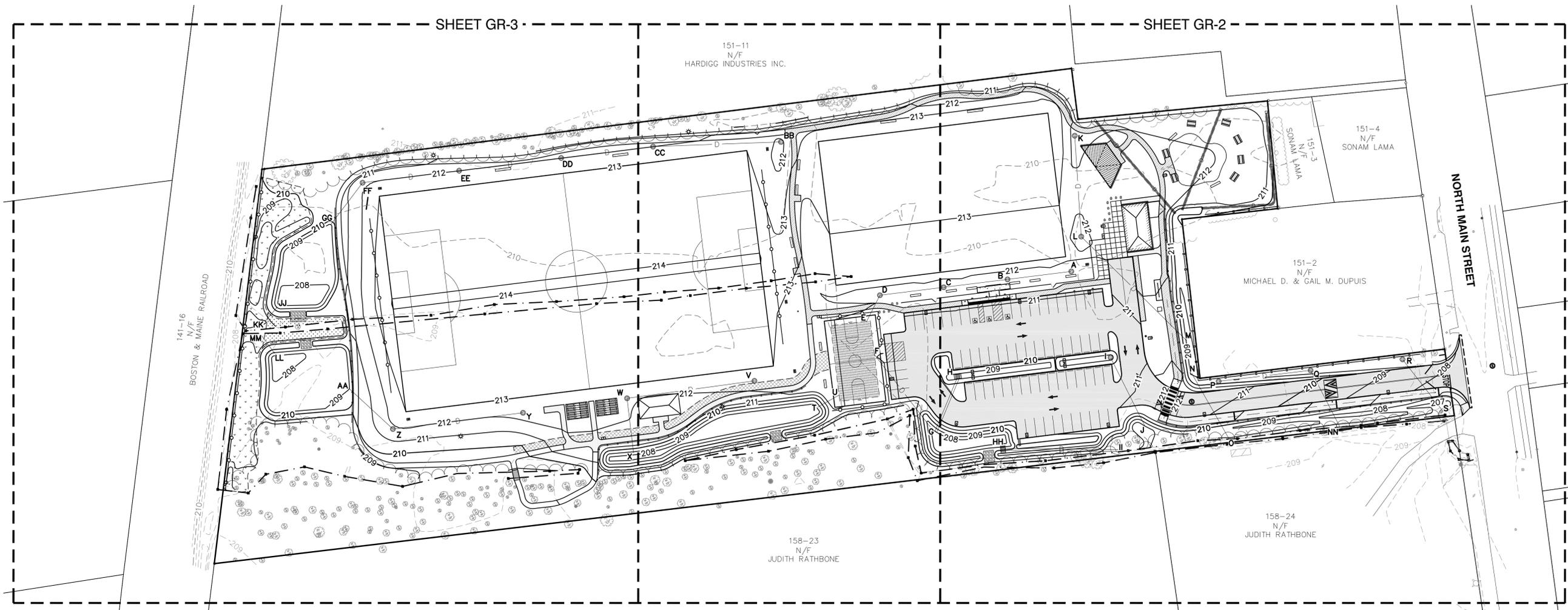


LEGEND

- LOCUS PROPERTY LINE
- ABUTTER PROPERTY LINE
- BUILDING SETBACK LINE
- PROPOSED STANDARD CONCRETE CURB
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED POROUS PAVEMENT/PAVERS
- PROPOSED STANDARD BITUMINOUS PAVEMENT (PATH/WALK)
- PROPOSED REINFORCED TURF (FIRE DEPARTMENT ACCESS)



PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



ProTerra
DESIGN GROUP, LLC

4 Bay Road, Bldg A
Suite 200
Hadley, MA 01035
Ph: (413)320-4918

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

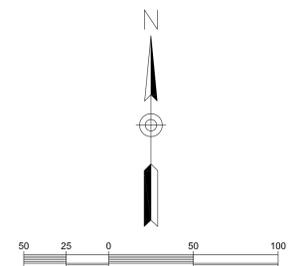
TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

DRAINAGE STRUCTURE / PIPE DATA						
STRUCTURE / PIPE IDENTIFICATION	STRUCTURE RIM/GRATE ELEVATION	PIPE INVERT (IN)	PIPE INVERT (OUT)	DOWNSTREAM PIPE LENGTH (LF)	PIPE SLOPE (%)	PIPE SIZE & MATERIAL
INLET - A	211.40	210.08	210.08	63	0.50	8" PVC
INLET - B	211.40	209.77	209.77	62	0.50	10" PVC
INLET - C	211.40	209.46	209.46	62	0.50	12" PVC
INLET - D	211.40	209.14	209.14	29	0.50	12" PVC
U/G DETENTION - E		209.00				
U/G DETENTION - F			208.35	90	0.00	15" HDPE
CONSTRUCTED WETLAND - G		208.35				
RAIN GARDEN OUTLET - H	209.70		208.63	55	0.50	TWIN 12" PVC
PARKING ISLAND OUTLET - I	209.70		208.32	65	0.50	10" PVC
FLARED-END - J		208.00				
INLET - K	211.35		210.01	98	0.50	8" PVC
INLET - L	211.25	209.52	209.52	144	0.50	8" PVC
FLARED-END - M		208.80				
CULVERT - NO		208.75	208.00	73	1.02	15" HDPE
INLET - P	209.17		207.66	90	0.50	6" PVC
INLET - Q	208.24		207.21	61	0.50	6" PVC
FLARED-END - NN		206.90				
INLET - R	208.80		206.32	64	0.50	6" PVC
FLARED-END - S		206.00				

DRAINAGE STRUCTURE / PIPE DATA						
STRUCTURE / PIPE IDENTIFICATION	STRUCTURE RIM/GRATE ELEVATION	PIPE INVERT (IN)	PIPE INVERT (OUT)	DOWNSTREAM PIPE LENGTH (LF)	PIPE SLOPE (%)	PIPE SIZE & MATERIAL
U/G DETENTION - U			208.35	24	0.00	15" HDPE
CONSTRUCTED WETLAND - T		208.35				
INLET - V	212.20		209.40	125	0.50	10" PVC
INLET - W	211.50	208.77	208.77	54	0.50	12" PVC
FLARED-END - X		208.50				
INLET - Y	212.20		209.68	127	0.50	10" PVC
INLET - Z	211.76	209.04	209.04	58	0.50	12" PVC
FLARED-END - AA		208.75				
INLET - BB	211.75		211.61	124	0.50	6" PVC
INLET - CC	212.00	210.48	210.48	90	0.50	10" PVC
INLET - DD	212.00	210.03	210.03	100	0.50	10" PVC
INLET - EE	212.00	209.53	209.53	95	0.50	12" PVC
INLET - FF	211.53	209.00	209.00	51	0.50	12" PVC
FLARED-END - GG		208.75				

DRAINAGE STRUCTURE / PIPE DATA						
STRUCTURE / PIPE IDENTIFICATION	STRUCTURE RIM/GRATE/ORIFICE/WEIR ELEVATION	PIPE INVERT (IN)	PIPE INVERT (OUT)	PIPE LENGTH (LF)	PIPE SLOPE (%)	PIPE SIZE & MATERIAL
CONSTRUCTED WETLAND OUTLET - HH	208.38 (12"W x 3"H ORIFICE) X 4 209.05 (12"W x 3"H ORIFICE) X 4 209.43 (12"W x 3"H ORIFICE) X 4 209.64 (48" x 48" HORIZ. GRATE) 209.75 (10' WIDE BROAD-CRESTED WEIR) X 2		208.55	110	0.50	TWIN 12" PVC
FLARED-END - II		208.00				
CONSTRUCTED WETLAND OUTLET - JJ	208.80 (3" VERT. ORIFICE) 209.39 (12" HORIZ. GRATE) 209.81 (15' WIDE BROAD-CRESTED WEIR)		208.50	18	2.78	12" PVC
FLARED-END - KK		208.00				
CONSTRUCTED WETLAND OUTLET - LL	209.14 (3" VERT. ORIFICE) 209.40 (12" HORIZ. GRATE) 209.50 (10' WIDE BROAD-CRESTED WEIR)		208.50	18	2.78	12" PVC
FLARED-END - MM		208.00				



PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

STAMP:

DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:
OVERALL GRADING PLAN
GR-1

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

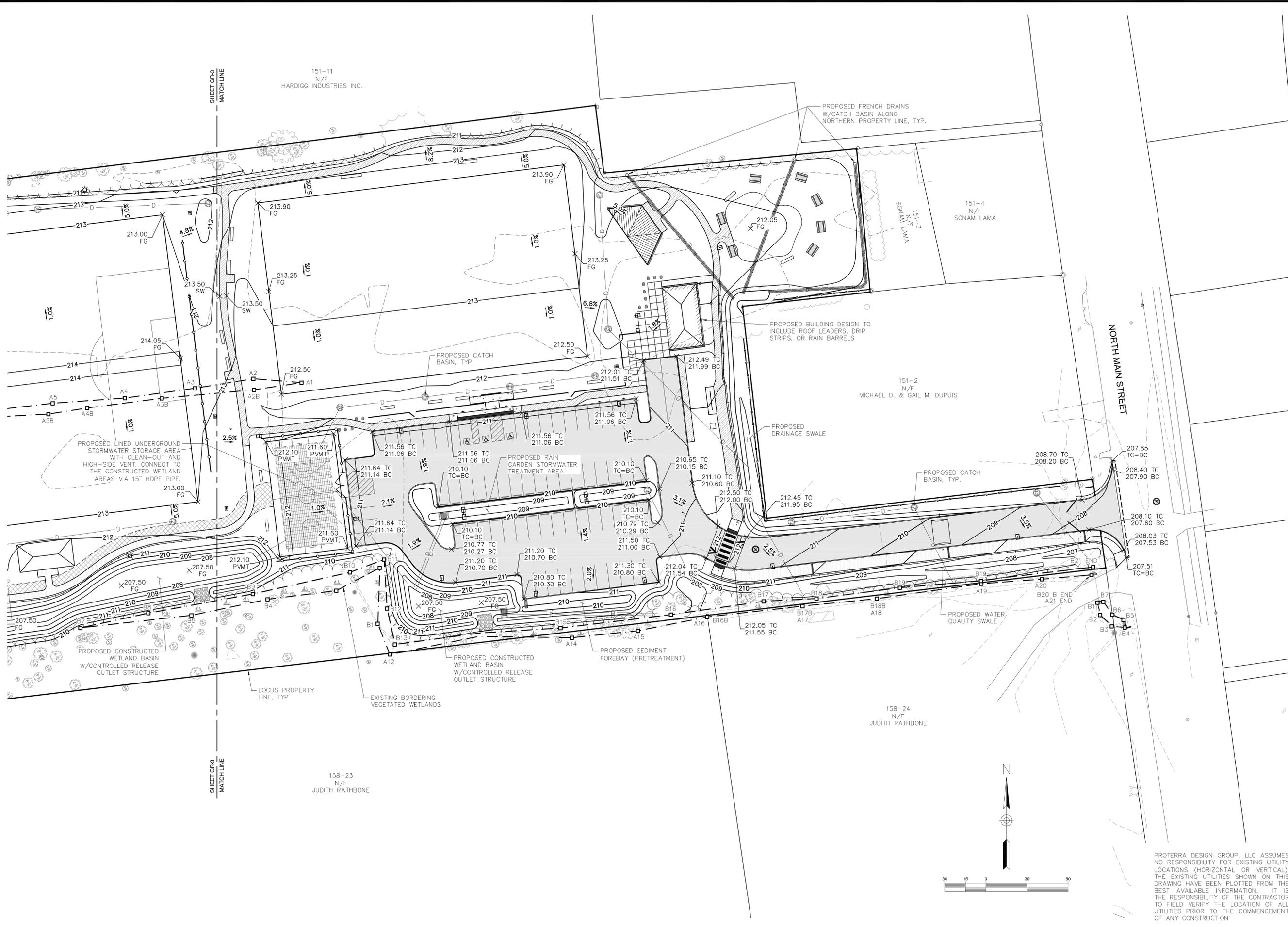


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:

**DETAILED
GRADING PLAN**

GR-2



PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

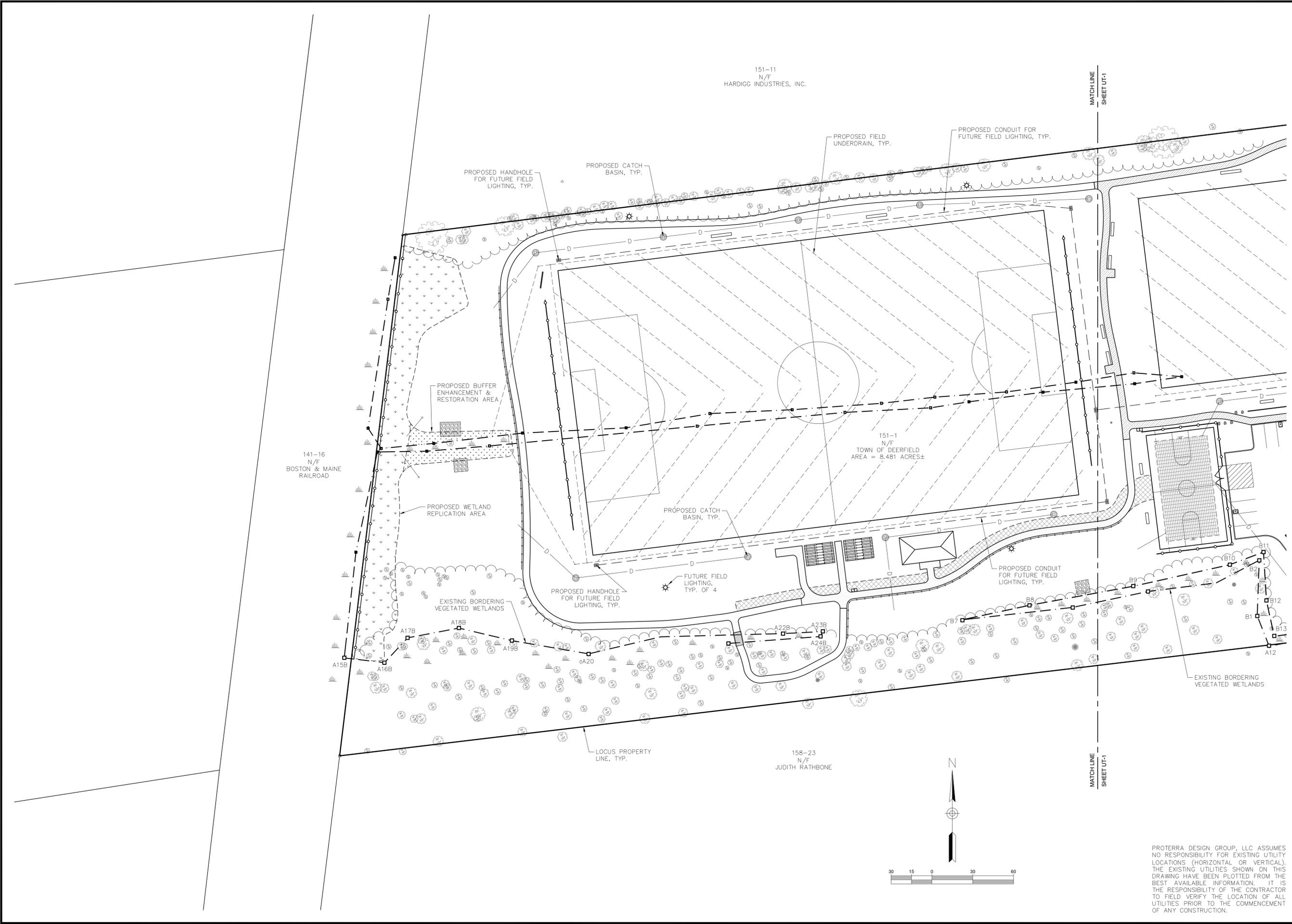


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:

UTILITY PLAN

UT-2



CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:



DATE: 01/25/2022

DRAWN: STZ/BLM

CHECK: JMM/TEJ

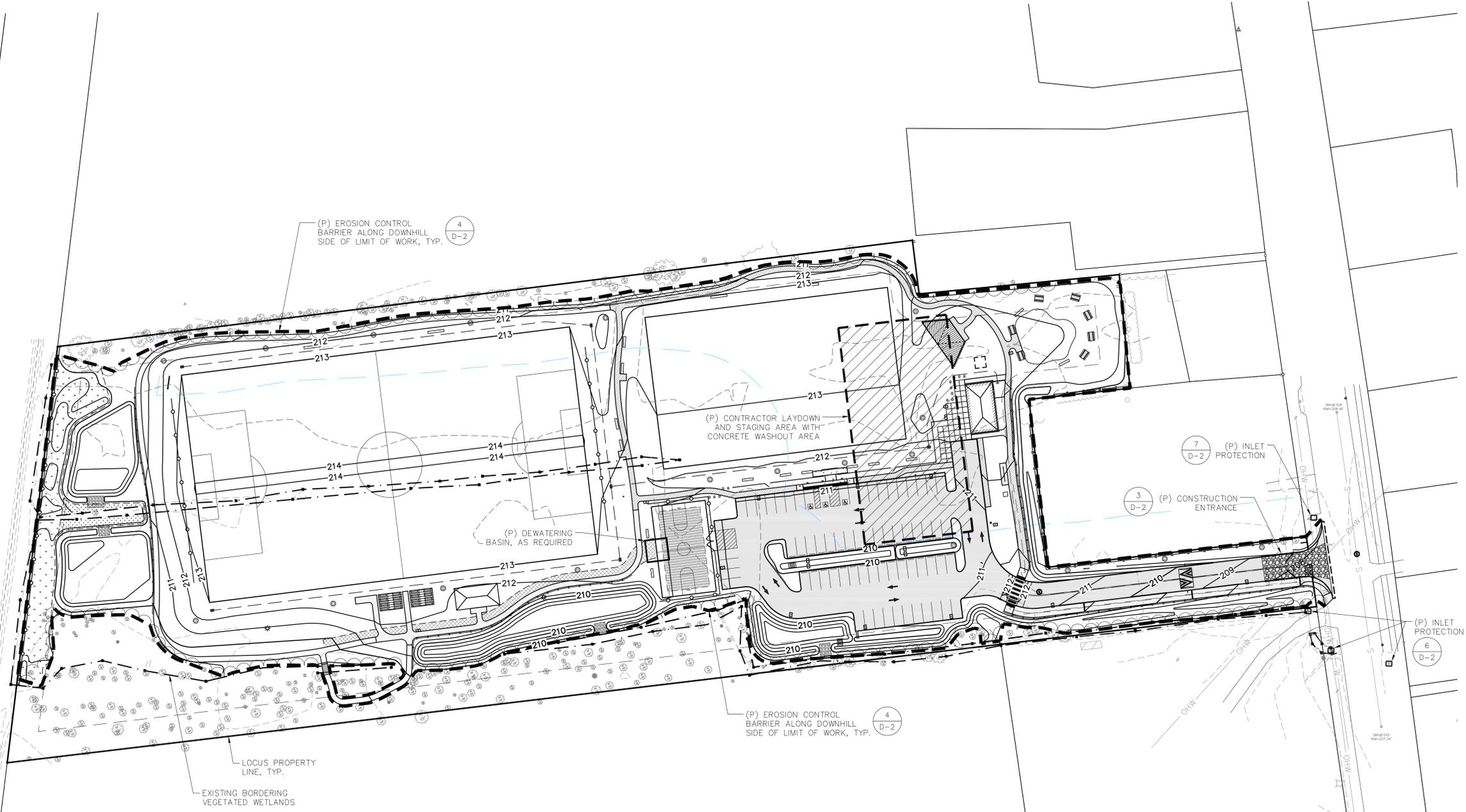
SCALE: SEE PLAN

JOB NO.: 21-006

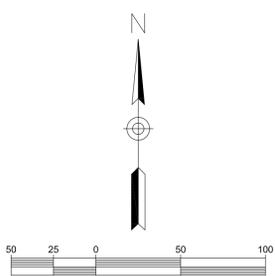
SHEET TITLE:

EROSION CONTROL PLAN

ES-1



DISTURBANCE SUMMARY	
ITEM	AREA (SF)
PAVEMENT	41,165
POROUS WALKS	8,395
BUILDING ROOF	4,400
FIELD TURF	126,420
LOAM & SEED	90,560±
STORMWATER	33,970±
WETLAND REP. & BUFFER ENHANCEMENT	11,474±
ESTIMATED LIMIT OF WORK	311,025±



PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/23	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

OWNER/APPLICANT:

STAMP:

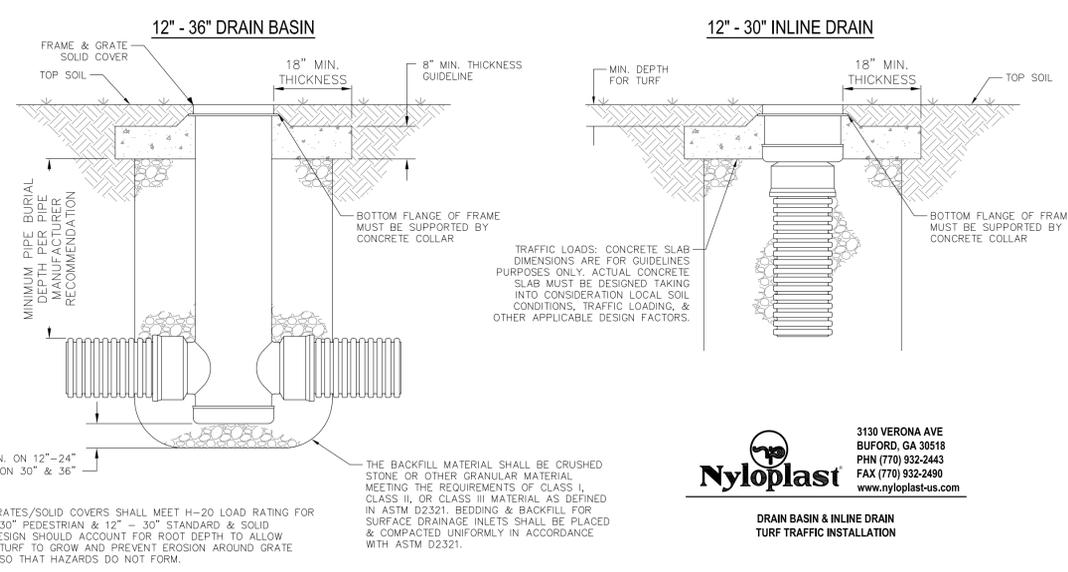
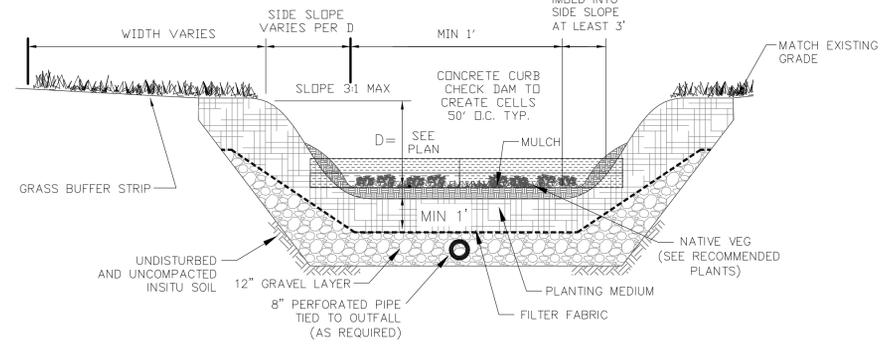
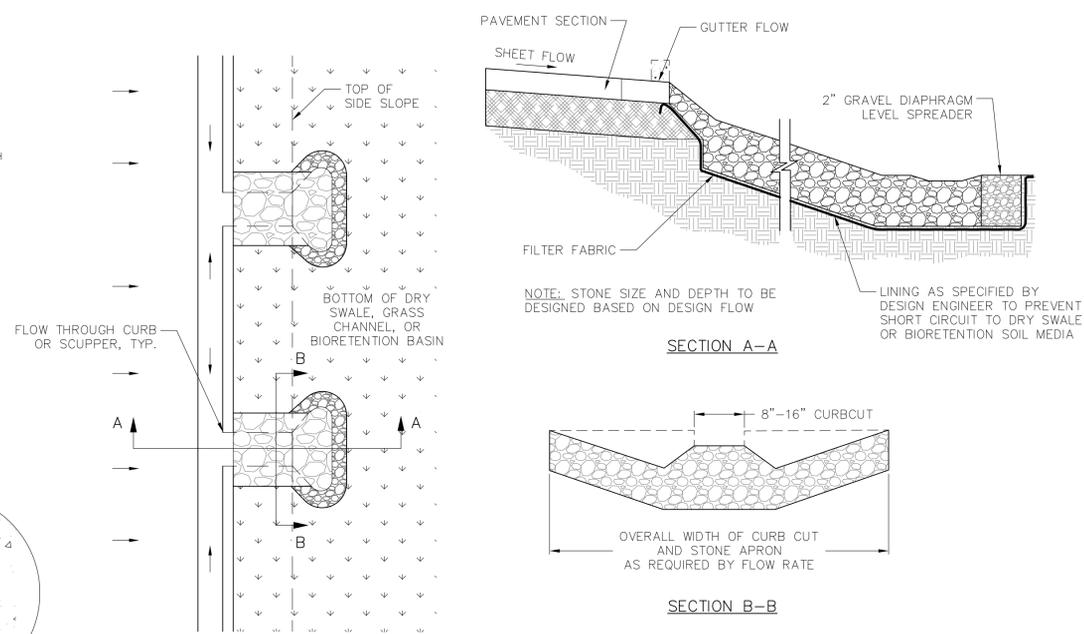
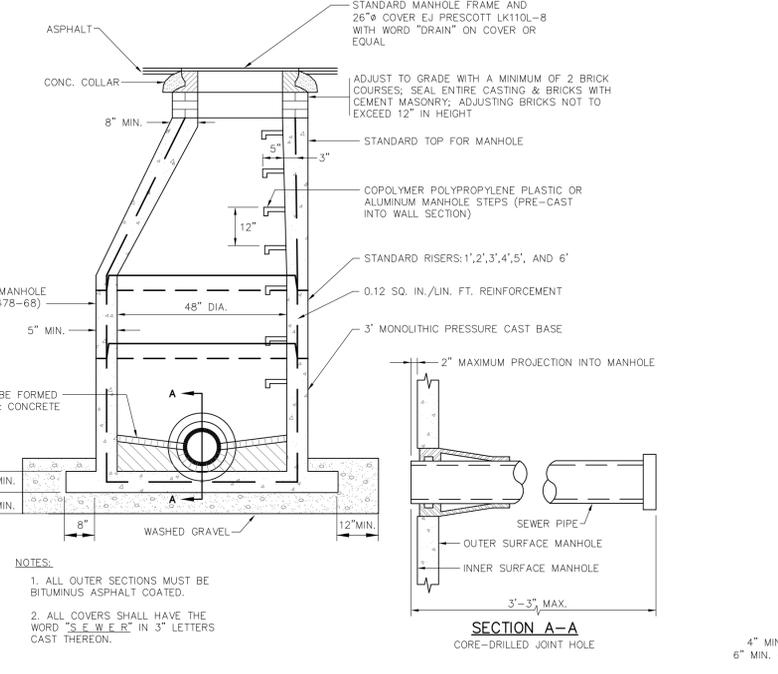
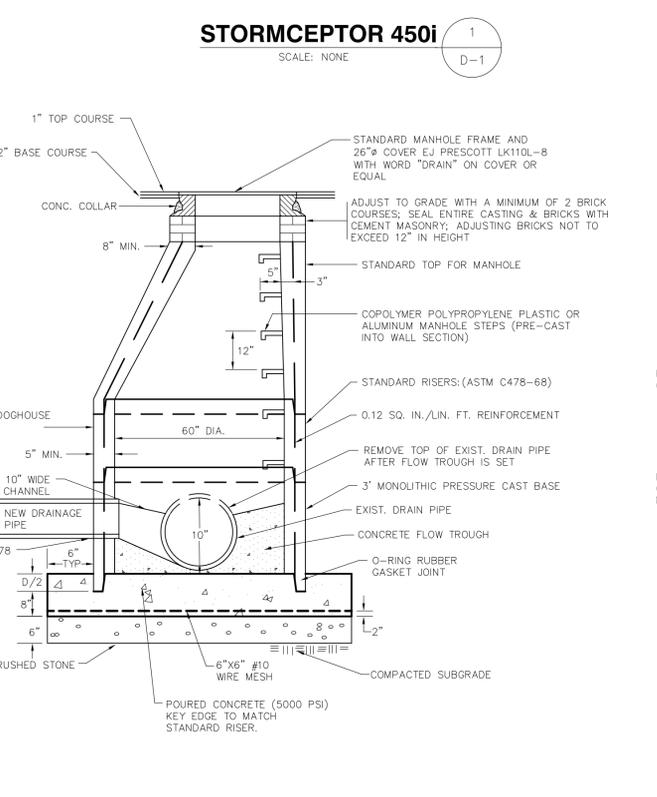
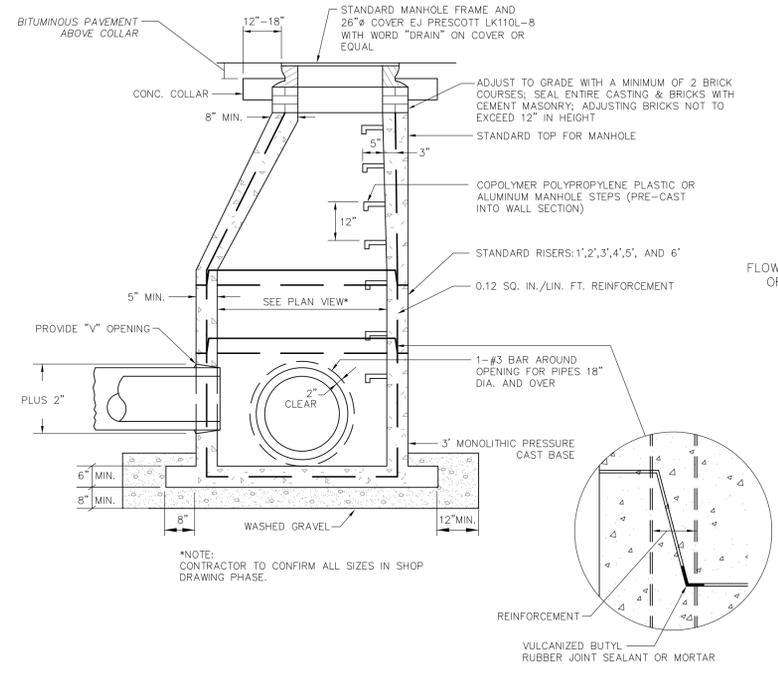
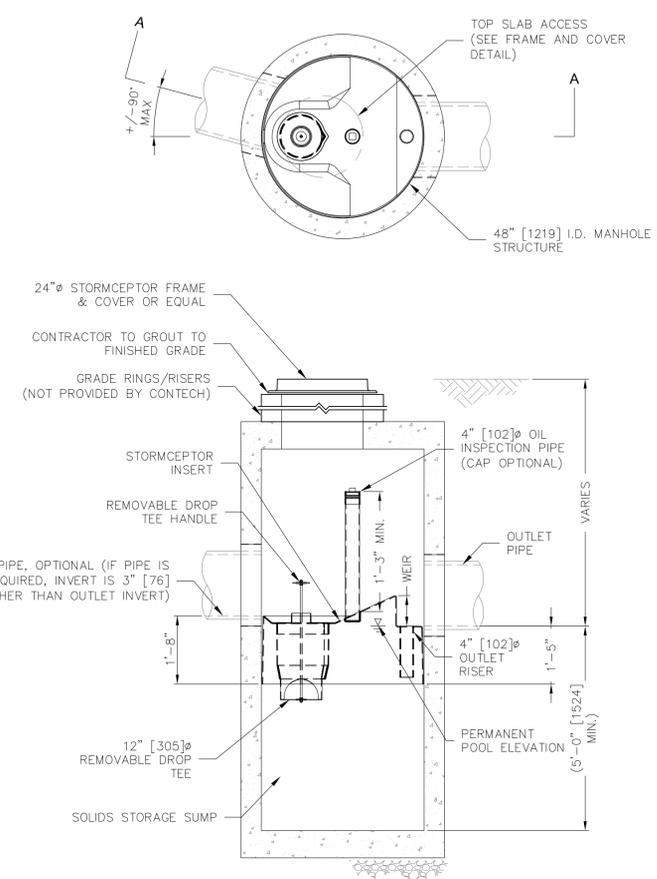
COMMISSIONER
JESSE M. MORENO
CIVIL ENGINEER
No. 47315
1-25-2022

DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:

DETAILS

D-1



Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

RAIN BASIN & INLINE DRAIN
TURF TRAFFIC INSTALLATION

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

OWNER/APPLICANT:

STAMP:



DATE: 01/25/2022

DRAWN: STZ/BLM

CHECK: JMM/TEJ

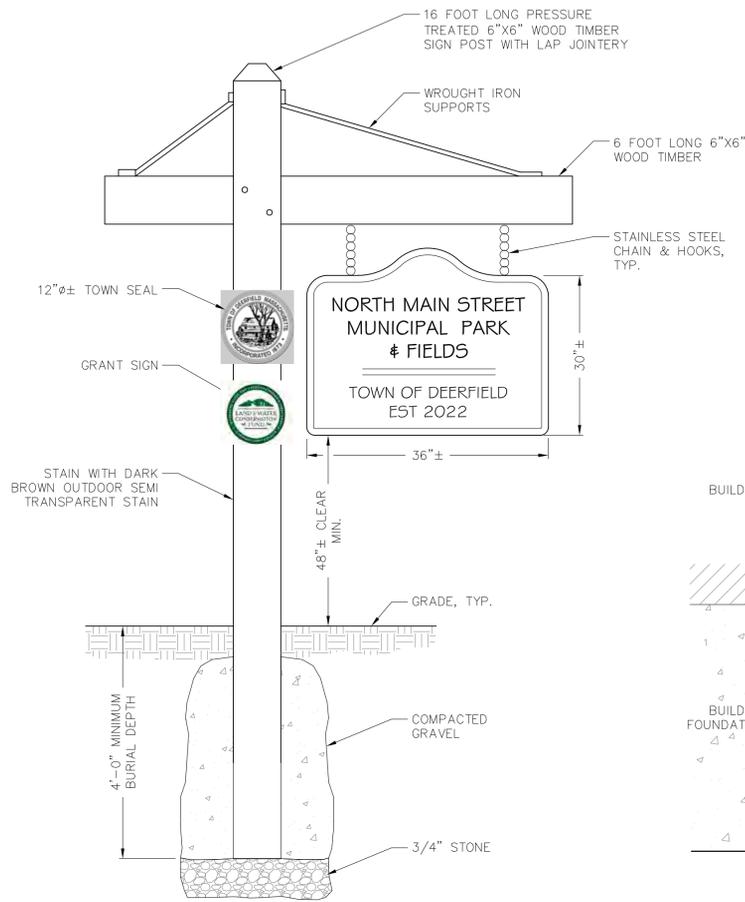
SCALE: SEE PLAN

JOB NO.: 21-006

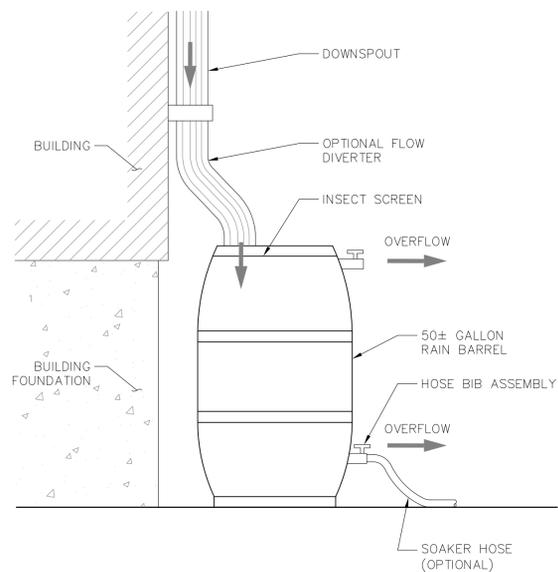
SHEET TITLE:

DETAILS

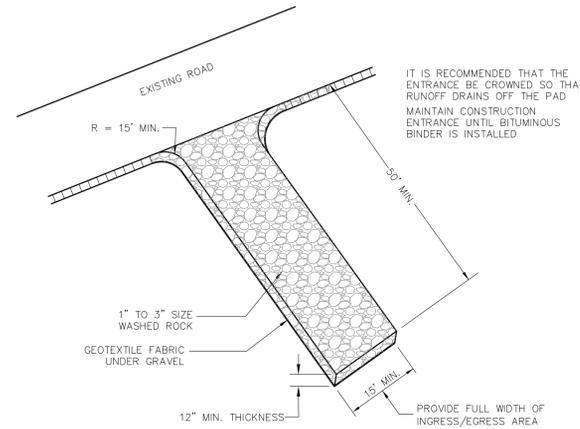
D-2



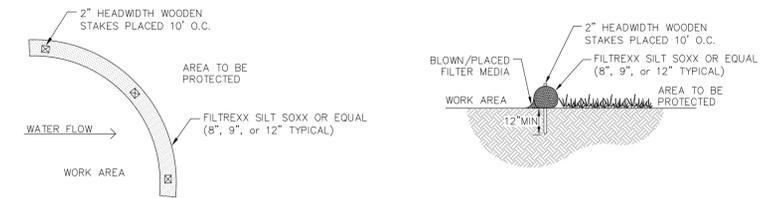
ENTRANCE SIGN 1
SCALE: NONE
D-2



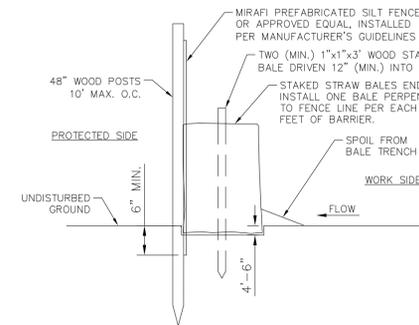
RAIN BARREL DETAIL 2
SCALE: NONE
D-2



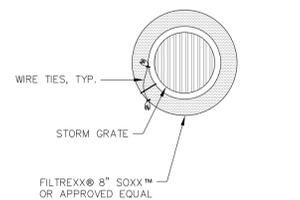
STABILIZED CONSTRUCTION ENTRANCE DETAIL 3
SCALE: NONE
D-2



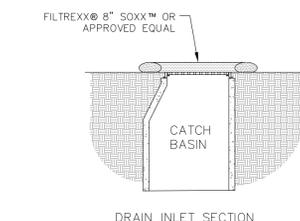
EROSION CONTROL BARRIER (MEDIA FILTER SOCK) DETAIL 4
SCALE: NONE
D-2



EROSION CONTROL BARRIER (SILT FENCE & HAYBALE) DETAIL 5
SCALE: NONE
D-2

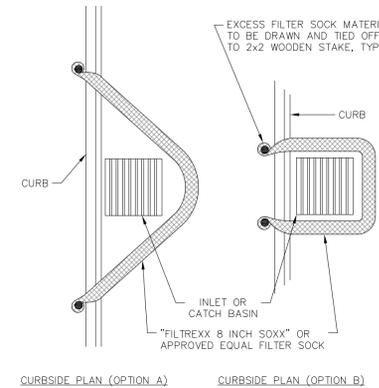


DRAIN INLET PLAN

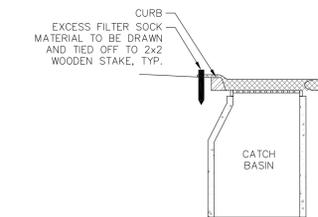


DRAIN INLET SECTION

- NOTES:
1. DETAILS SHOWN FROM FILTREXX SUSTAINABLE TECHNOLOGIES.
 2. ALTERNATIVES ARE ACCEPTABLE WITH APPROVAL FROM ENGINEER OF RECORD AND CITY STAFF.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.



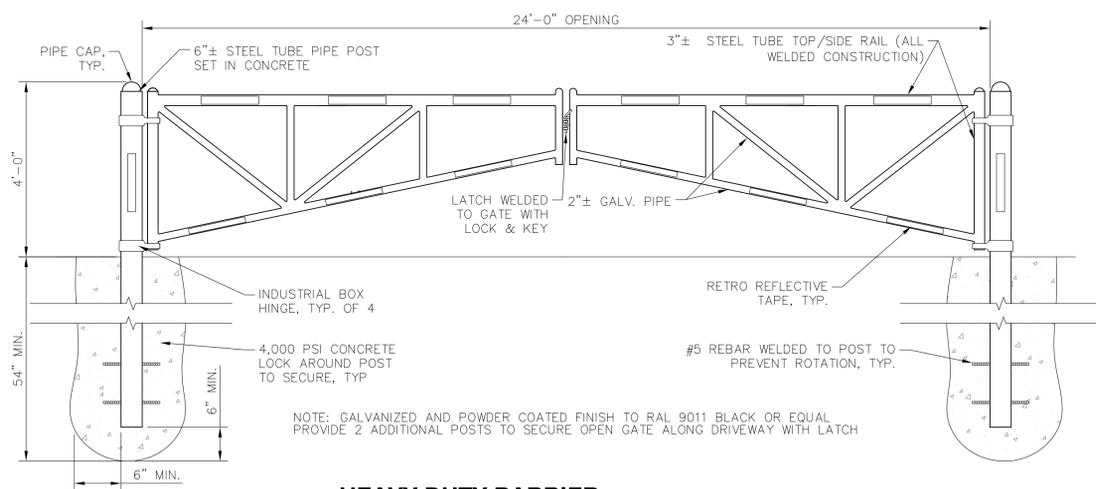
CURBSIDE PLAN (OPTION A) CURBSIDE PLAN (OPTION B)



CURBSIDE SECTION

MEDIA FILTER SOCK INLET PROTECTION

INLET PROTECTION DETAILS 7
SCALE: NONE
D-2



HEAVY DUTY BARRIER ACCESS GATE 6
SCALE: NONE
D-2



Are you looking for a cost-effective, easy way to stop sediment from entering catch basins on construction sites? Silsack is the simple and economical solution to protecting storm drains from construction runoff.

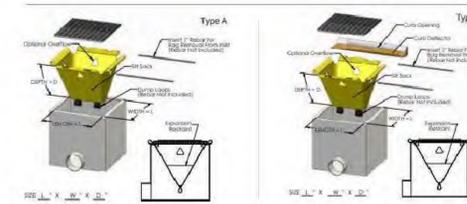


Silsack is a temporary catch basin filter that removes sediment, trash and debris from entering a catch basin. Available in both high flow and regular flow, Silsack can be manufactured with built-in curb deflectors and overflow holes.

Routine inspection of a Silsack's collected sediment level is important to prevent "ponding" around storm drains.

ADVANTAGES:

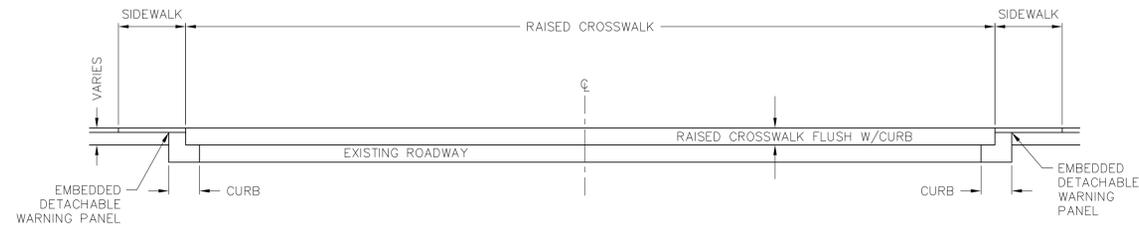
- Made to fit any size inlet
- Easy to install and economical
- US Patented
- Custom sizes available
- Undergrade design so it is not easily disturbed
- Type B, Type C Adjustable Frame, and Floc Model available



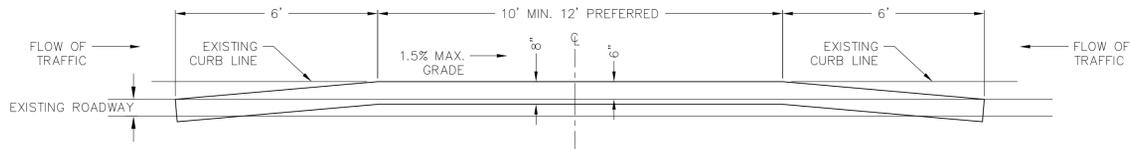
CATCH BASIN FILTER

CONSULTANT:

NO.	DATE	REVISIONS:
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL



SECTION A-A

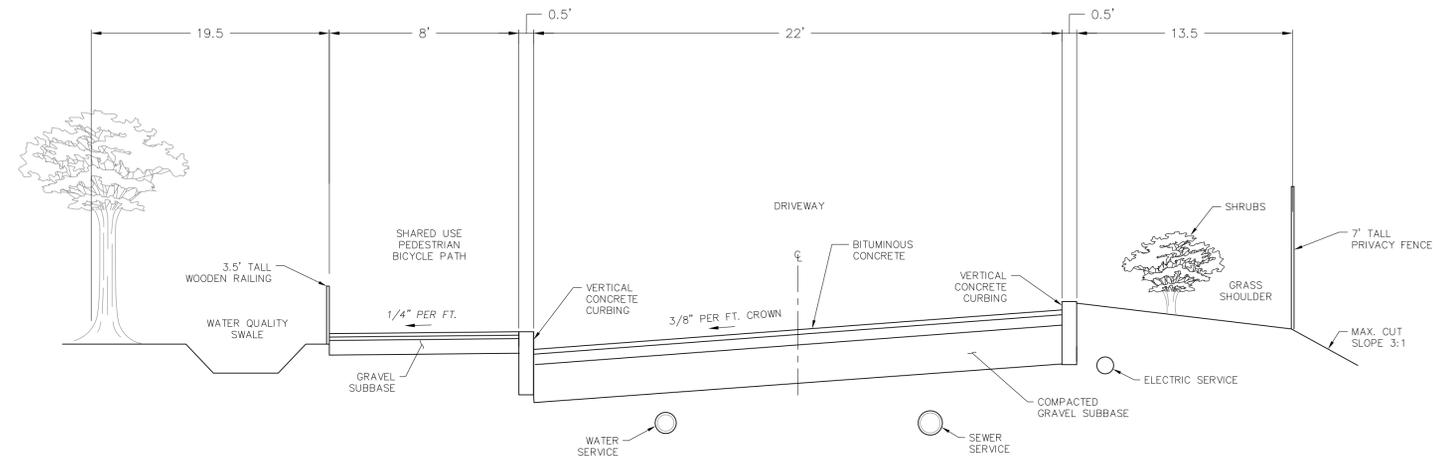


SECTION B-B

CONCRETE RAISED CROSSWALK - TYPE 1

SCALE: NONE

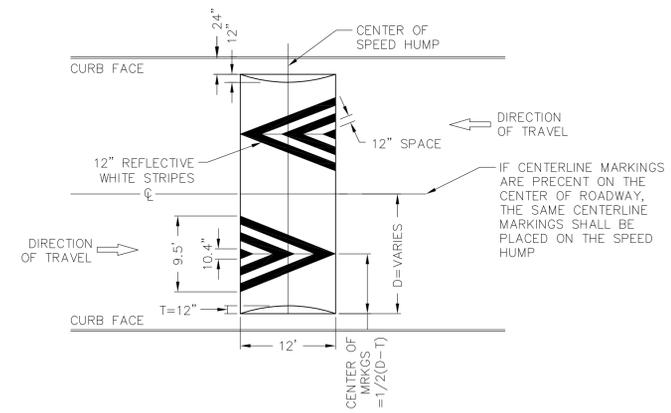
1
D-3



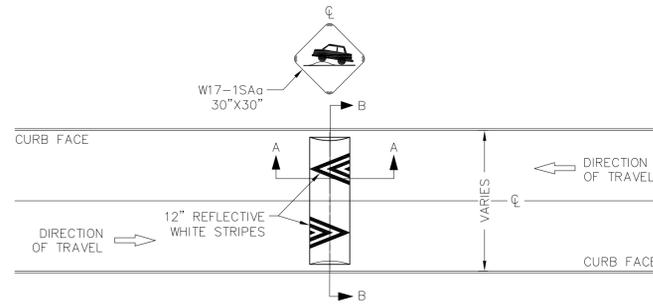
DRIVEWAY CROSS SECTION

SCALE: NONE

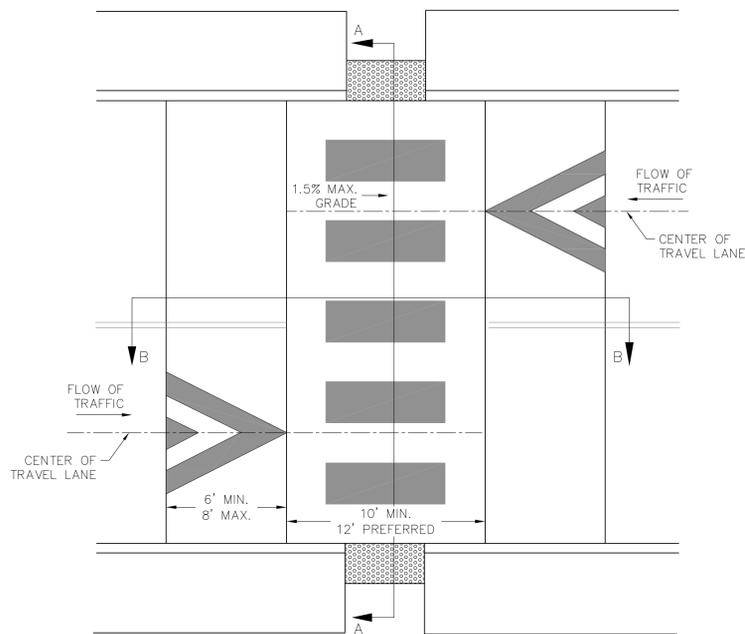
2
D-3



PAVEMENT MARKINGS DETAIL



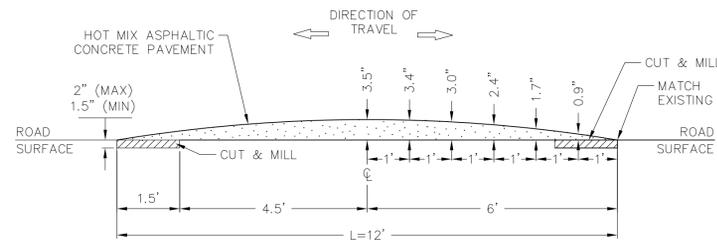
12-FOOT PARABOLIC ASPHALT CONCRETE SPEED HUMP (TYPICAL)



RAISED CROSSWALK - DETAIL

SCALE: NONE

3
D-3



SECTION A-A PARABOLIC CROWN PROFILE

SCALE: NONE

4
D-3

GENERAL NOTES:

THE 12 FOOT LONG VERTICAL CROSS-SECTION OF THE SPEED HUMP, MEASURED THE DIRECTION OF TRAFFIC FLOW, SHALL BE A PARABOLIC CURVE WITH A MAXIMUM HEIGHT OF 3.5 INCHES AT THE MID-POINT, AND 12 FEET IN LENGTH AS DETAILED IN SECTION A-A OF THIS SHEET.

THE ROAD SURFACE SHALL BE CUT-MILLED AT TAPERED EDGES AROUND THE PERIMETER OF THE SPEED HUMP, A MAXIMUM OF 2 INCHES AND MINIMUM OF 1.5" AS ILLUSTRATED IN SECTION A-A THIS SHEET.

A PNEUMATIC ROLLER FIRST, THEN A VIBRATORY STEEL DOUBLE DRUM ROLLER, MINIMUM 10 TON SHALL BE USED FOR FINAL MATERIAL COMPACTION.

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:



DATE: 01/25/2022

DRAWN: STZ/BLM

CHECK: JMM/TEJ

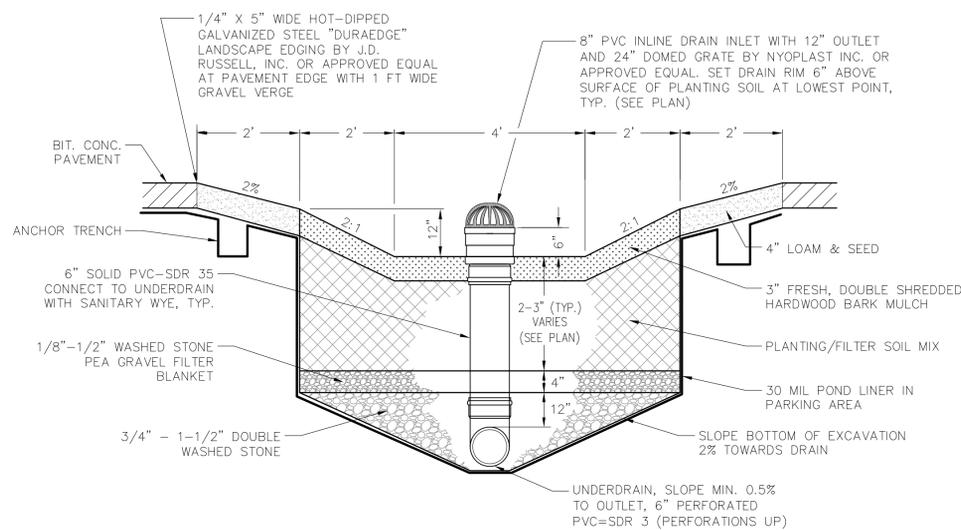
SCALE: SEE PLAN

JOB NO.: 21-006

SHEET TITLE:

DETAILS

D-3

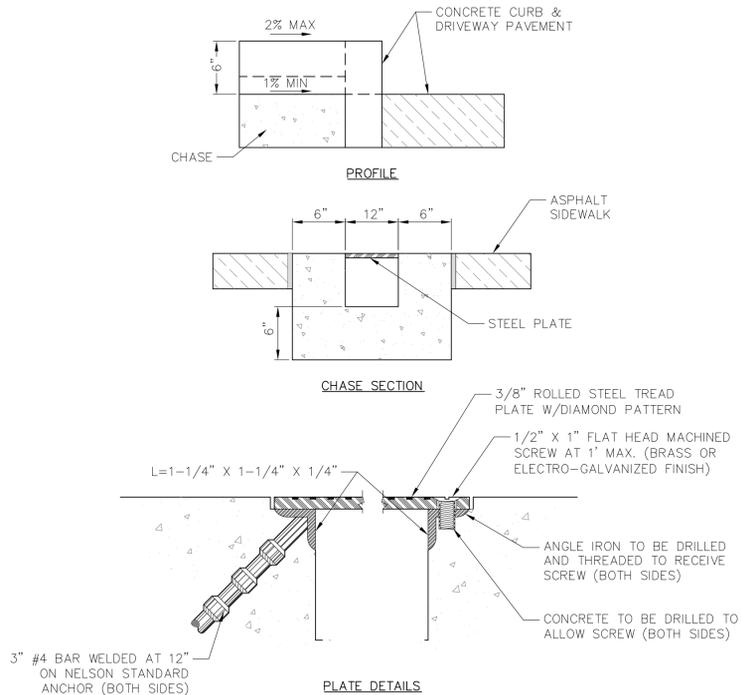


**RAINGARDEN
TYPICAL CROSS-SECTION** 1
SCALE: NONE
D-4

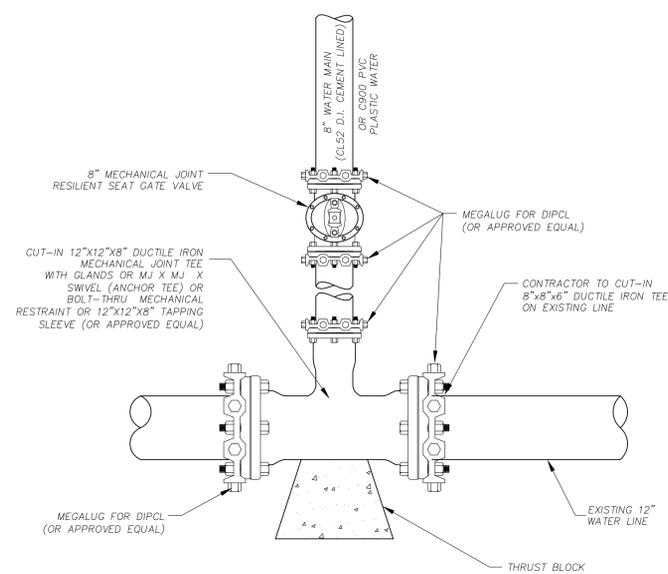
PARAMETER	VALUE
pH RANGE	5.5 TO 6.5
ORGANIC MATTER	1.5 TO 3.0% (BY WEIGHT)
MAGNESIUM	35 LBS. PER ACRE, MINIMUM
PHOSPHORUS (PHOSPHATE P ₂ O ₅)	75 LBS. PER ACRE, MINIMUM
POTASSIUM (POTASH-K ₂ O)	85 LBS. PER ACRE, MINIMUM
SOLUBLE SLATS	≤ 500 PPM
TOP SOIL	20 TO 30%
COMPOST	30 TO 40%
SAND	40 TO 50%

NOTES:
A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5"/HR) IS REQUIRED.
SAND COMPONENT SHALL BE GRAVELLY SAND THAT MEETS ASTM D 422.
SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS, ROCKS, OR SIMILAR OBJECTS LARGER THAN 2".
CLAY CONTENT SHALL NOT EXCEED 5%.
TOP SOIL SHALL BE A SANDY LOAM, LOAMY SAND, OR LOAM TEXTURE.
COMPOST COMPONENT MUST BE PROCESSED FROM YARD WASTE IN ACCORDANCE WITH MASS DEP GUIDELINES. THE COMPOST SHALL NOT CONTAIN BIOSOLIDS.

**PLANTING/FILTER SOIL
CHARACTERISTICS**



SIDEWALK PASS-THRU DRAIN 2
SCALE: NONE
D-4



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL CONFORM TO TOWN OF DEERFIELD WATER DEPARTMENT STANDARDS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. THE MECHANICAL JOINTS OF THE PIPES BETWEEN THE VALVES AND THE FITTINGS SHALL BE RESTRAINED VIA MEG-A-LUG JOINT CLAMPS (OR APPROVED EQUAL).

**STANDARD CUT-IN TEE
INSTALLATION** 3
SCALE: NONE
D-4

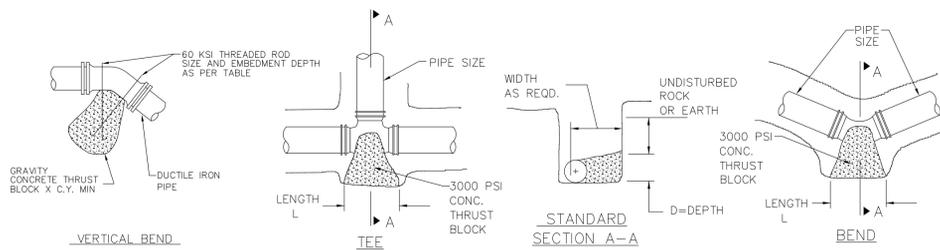
PIPE SIZE NOM DIA (INCHES)	VERTICAL BEND DEGREES	NO. OF COCS OF CONC BLOCKING	SIDE OF SHAKLE (FEET)	DIA OF RODS (INCHES)	DEPTH OF RODS IN CONC (FEET)
4"	11 1/4"	8	2.0	3/4"	1.6
	22 1/2"	16	2.5		
6"	11 1/4"	16	2.5	3/4"	1.6
	22 1/2"	32	3.2		
8"	11 1/4"	28	3.0	3/4"	1.6
	22 1/2"	56	3.8		
10"	11 1/4"	42	3.5	3/4"	1.6
	22 1/2"	84	4.4		
12"	11 1/4"	60	3.9	3/4"	1.6
	22 1/2"	120	4.9	7/8"	2.2
16"	11 1/4"	104	4.7	7/8"	2.2
	22 1/2"	208	5.9	1 1/8"	3.7

PIPE SIZE NOM DIA (INCHES)	VERTICAL BEND DEGREES	NO. OF COCS OF CONC BLOCKING	SIDE OF SHAKLE (FEET)	DIA OF RODS (INCHES)	DEPTH OF RODS IN CONC (FEET)
4"	45°	3	1.0	3/4"	1.6
6"	45°	6	1.5		
8"	45°	9	2.0		
10"	45°	12	2.5		
12"	45°	15	3.0		
16"	45°	21	4.0	1 1/8"	3.7

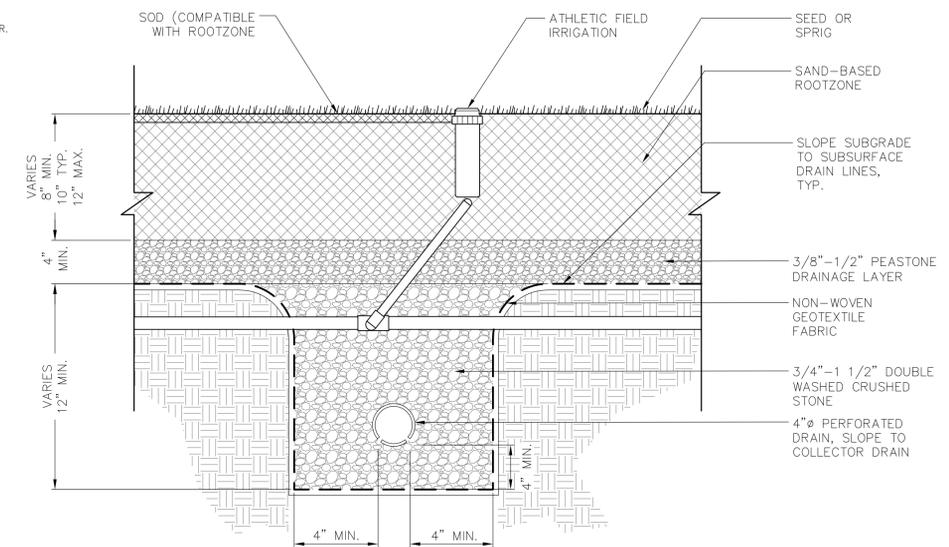
THRUST BLOCK NOTES

- FOR REQUIRED BEARING AREA DIMENSIONS D & L SEE TABLE. DIMENSIONS OF D & L OTHER THAN THOSE SHOWN IN THE TABLE MAY BE USED PROVIDED THEY YIELD A BEARING AREA EQUAL TO OR LARGER THAN THAT REQUIRED.
- CONCRETE NOT TO OVERLAP ANY JOINT.
- CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINTING HARDWARE.
- APPROXIMATE VOLUME OF CONCRETE THRUST BLOCK:
 $V = \frac{LD(W+D) - ID}{81}$
WHERE:
V = VOLUME IN CUBIC YARDS
L = LENGTH OF BLOCK IN FEET
D = DEPTH OF BLOCK IN FEET
W = WIDTH OF BLOCK IN FEET
ID = INSIDE DIAMETER OF PIPE IN FEET
- VALUES FOR TEE ALSO APPLY TO END PLUGS, CAPS, AND TAPPING SLEEVES.
- REQUIRED BEARING AREAS ARE DUE TO THRUSTS CAUSED BY 150 PSI WORKING PRESSURE PLUS 50%(75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE. NORMAL PIPE DIAMETER USED.
- REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 2000 LBS. PER SQUARE FOOT FOR SAND. DUE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE ENGINEER.
- IN MUCK, PEAT, OR RECENTLY PLACED FILL ALL THRUST SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS, ALL AS REQUIRED BY THE ENGINEER.

PIPE SIZE (IN.)	TEE (See Note 5)		90°(1/4)BEND		45°(1/8)BEND		22-1/2°(1/16)BEND		11-1/4°(1/32)BEND	
	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L
3 & 4	1.4	1.0 x 1.5	2.0	1.0 x 2.0	1.1	1.0 x 1.5	0.6	0.5 x 1.5	0.3	0.5 x 1.0
6	3.2	1.5 x 2.5	4.5	2.0 x 2.5	2.4	1.5 x 2.0	1.2	1.0 x 1.5	0.6	1.5 x 1.5
8	5.7	2.0 x 3.0	8.0	2.0 x 4.0	4.3	2.0 x 2.5	2.2	1.5 x 1.5	1.1	1.0 x 1.5
12	12.7	3.5 x 3.5	18.0	4.0 x 4.5	9.7	2.5 x 4.0	5.0	2.0 x 2.5	2.5	1.5 x 2.0
16	50.0	6.0 x 8.5	50.0	6.0 x 8.5	27.0	5.0 x 5.5	13.8	3.5 x 4.0	6.9	2.5 x 3.0



THRUST BLOCK DETAILS 4
SCALE: NONE
D-4



NOTE: BRIDGING OF ROOTZONE AND STONE MATERIAL IS ESSENTIAL TO SYSTEM. A DESIGN CONSULTANT SHOULD BE RETAINED TO ENSURE PROPER BRIDGING AND DRAINAGE CHARACTERISTICS OF FIELD PROFILE.

SAND-BASED ROOTZONE ATHLETIC FIELD 5
SCALE: NONE
D-4

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373
OWNER/APPLICANT:

STAMP:



DATE: 01/25/2022

DRAWN: STZ/BLM

CHECK: JMM/TEJ

SCALE: SEE PLAN

JOB NO.: 21-006

SHEET TITLE:

DETAILS

D-4

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

OWNER/APPLICANT:

STAMP:



DATE: 01/25/2022

DRAWN: STZ/BLM

CHECKED: JMM/TEJ

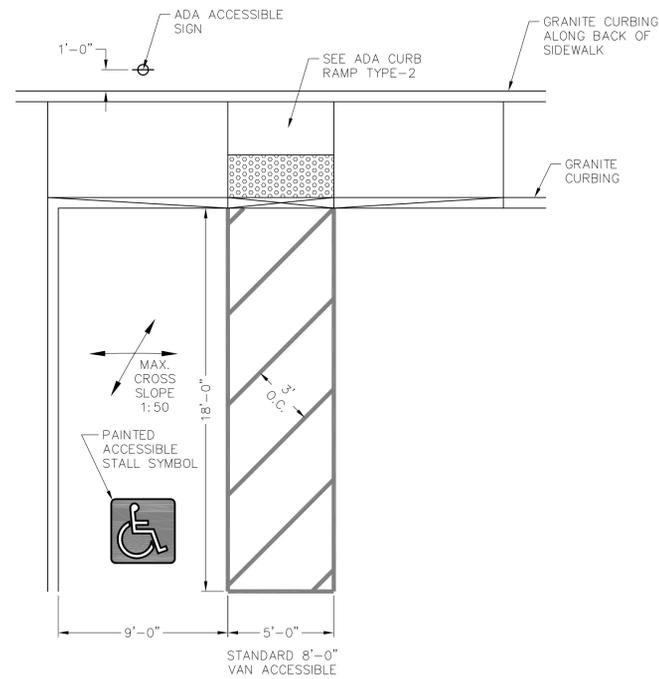
SCALE: SEE PLAN

JOB NO.: 21-006

SHEET TITLE:

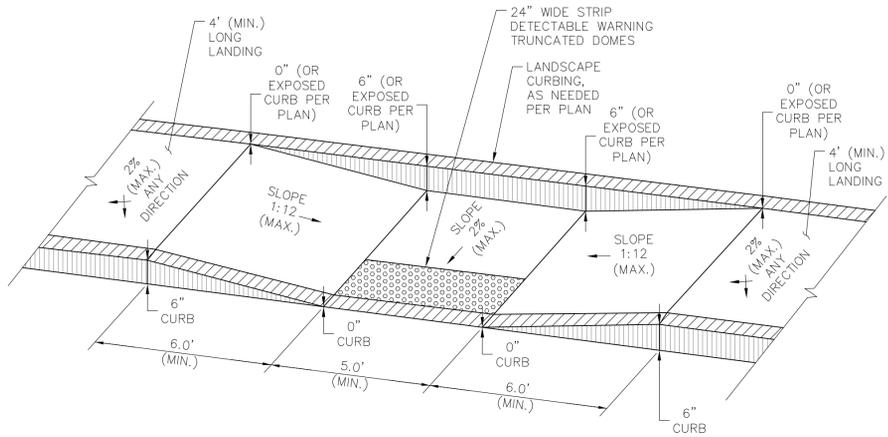
DETAILS

D-5

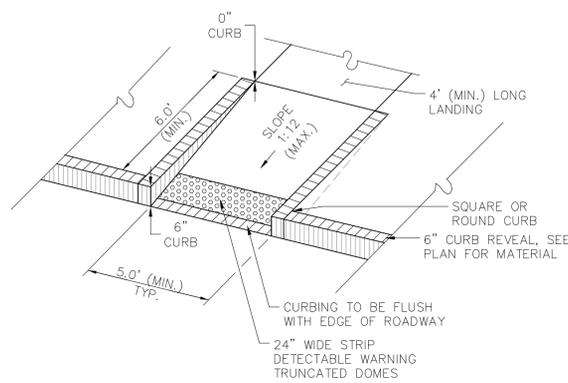


- NOTES:**
- ALL ACCESSIBLE STALL PAVEMENT MARKINGS SHALL BE 4" WIDE WHITE STRIPES.
 - ACCESSIBLE AISLE SHALL BE A MINIMUM OF 5' WIDE.
 - ACCESSIBLE STALL SHALL BE A MINIMUM OF 8' WIDE.
 - ACCESSIBLE PARKING AREA SURFACE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - A SIGN MUST MARK ACCESSIBLE PARKING. THE SYMBOL ON THE PAVEMENT IS NOT ADEQUATE.
 - STRIPING WITHIN PUBLIC RIGHT OF WAY TO BE THERMOPLASTIC. STRIPING IN PARKING LOT BEHIND CITY HALL TO BE STANDARD PAINTED.

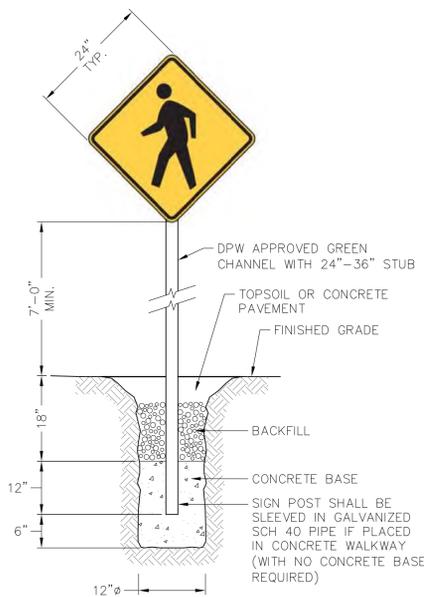
ADA ACCESSIBLE PARKING SPACE
SCALE: NONE



ADA CURB RAMP - TYPE 1
SCALE: NONE

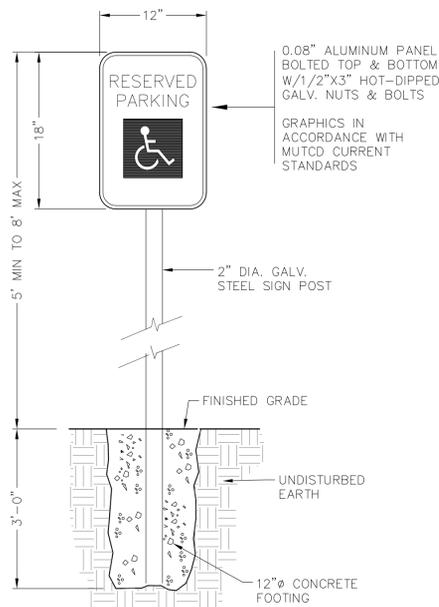


ADA CURB RAMP - TYPE 2
SCALE: NONE



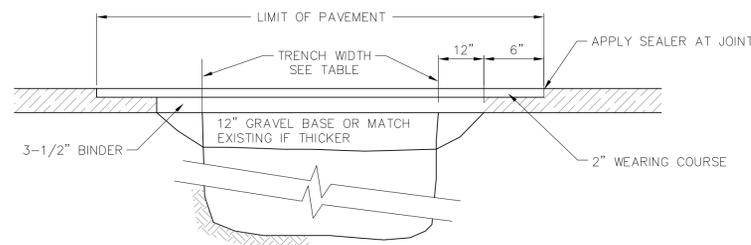
- NOTE:**
- PROVIDE SIGN IN ACCORDANCE WITH MUTCD SPECIFICATIONS AND LOCAL AUTHORITIES HAVING JURISDICTION.

REGULATORY SIGN
SCALE: NONE



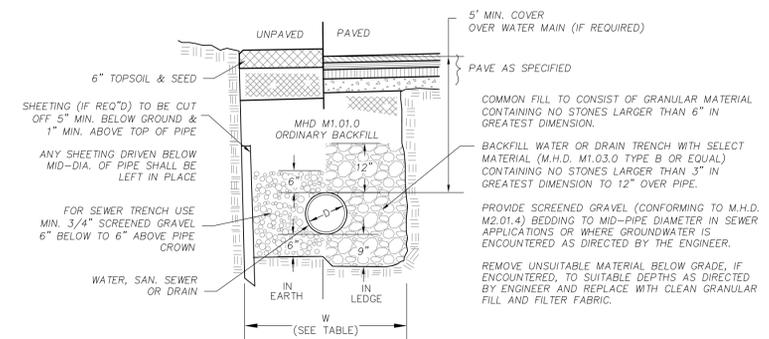
- NOTE:**
- PROVIDE SIGN IN ACCORDANCE WITH MUTCD SPECIFICATIONS AND LOCAL AUTHORITIES HAVING JURISDICTION.

ADA ACCESSIBLE PARKING SIGN
SCALE: NONE



TRENCH WIDTH, W		
D DIAMETER OF PIPE	W UNSHEETED	W SHEETED
TO 12"	3'	4'
14" TO 24"	4'	5'
30" TO 36"	5'	6'

PAVEMENT PATCH DETAIL FOR TRENCH SECTIONS
SCALE: NONE



TRENCH WIDTH, W		
D DIAMETER OF PIPE	W UNSHEETED	W SHEETED
TO 12"	3'	4'
14" TO 24"	4'	5'
30" TO 36"	5'	6'

- NOTES:**
- ALL TRENCH CONSTRUCTION TO CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
 - COMPACT FILL AND TAMP PIPE TO 95% MAX. DRY DENSITY IN 8" LIFTS UNLESS OTHERWISE SPECIFIED.
 - INSTALL DUCTILE IRON WATER PIPE IN ACCORDANCE WITH ANSI A21.51 (AWWA C151) LAYING CONDITION TYPE 2. BACKFILL TO CONFORM TO MHD M1.03.0 GRAVEL BURROW TYPE c TO 12" ABOVE PIPE CROWN OR AS DIRECTED BY MANUFACTURER OR ENGINEER.
 - MATERIALS FOR SEWER BEDDING, HAUNCHING, AND BACKFILL TO CONFORM TO CLASSES I, II, OR III AS DESCRIBED IN ASTM D 2321 AND TR-16 GUIDES FOR THE DESIGN OF WASTEWATER TREATMENT WORKS.
 - BC TO 12" ABOVE PIPE CROWN OR AS DIRECTED BY MANUFACTURER OR ENGINEER.
 - PROVIDE MINIMUM 5 FT. COVER OVER WATER MAIN AS MEASURED FROM BOTTOM OF CURB LINE. INSULATE WATERMAIN IN ACCORDANCE WITH M.H.D. SECTION 301 WATER SYSTEMS IN AREAS PRONE TO FROST ACTION AND/OR LESS THAN 5' MIN. COVER.

TYPICAL TRENCH SECTION
SCALE: NONE

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

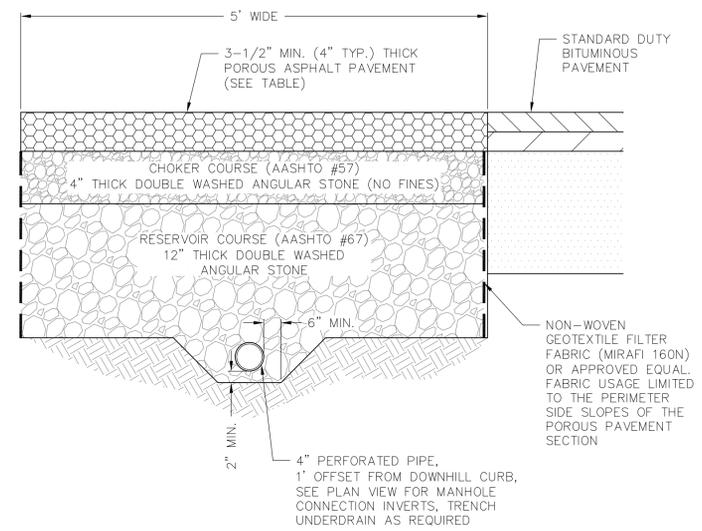


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

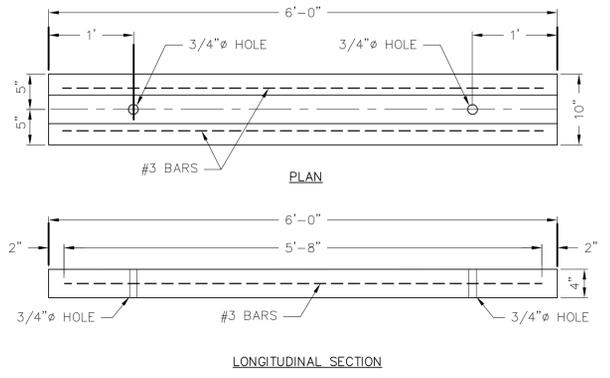
SHEET TITLE:

DETAILS

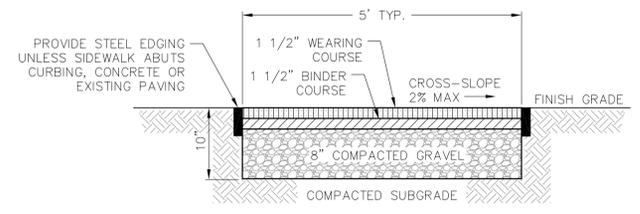
D-7



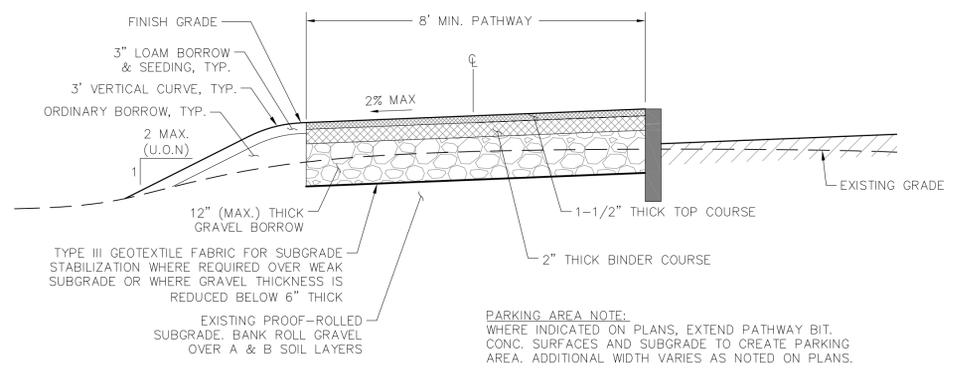
POROUS ASPHALT WALKWAY PAVEMENT SECTION
SCALE: NONE



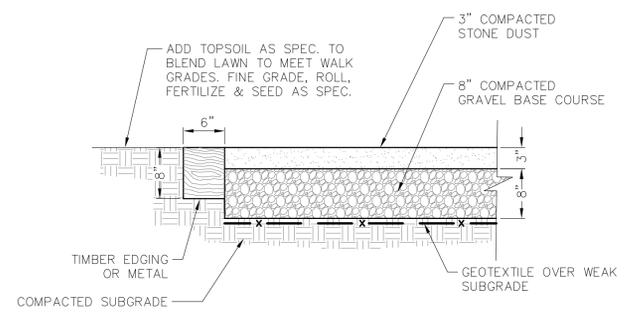
CONCRETE WHEEL STOP
SCALE: NONE



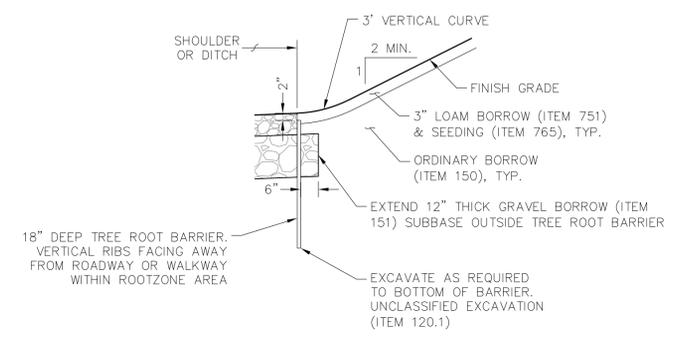
STANDARD BITUMINOUS CONCRETE WALK
SCALE: NONE



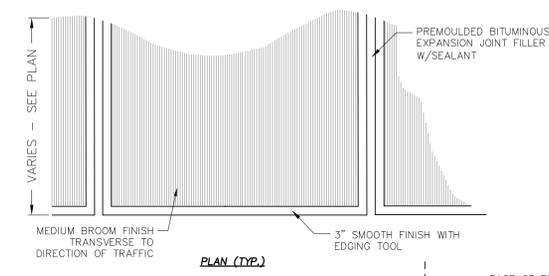
BITUMINOUS CONCRETE SHARED USE PATH
SCALE: NONE



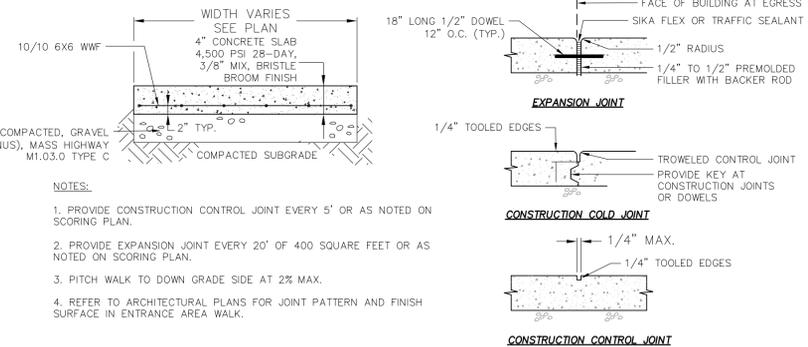
STONE DUST WALK
SCALE: NONE



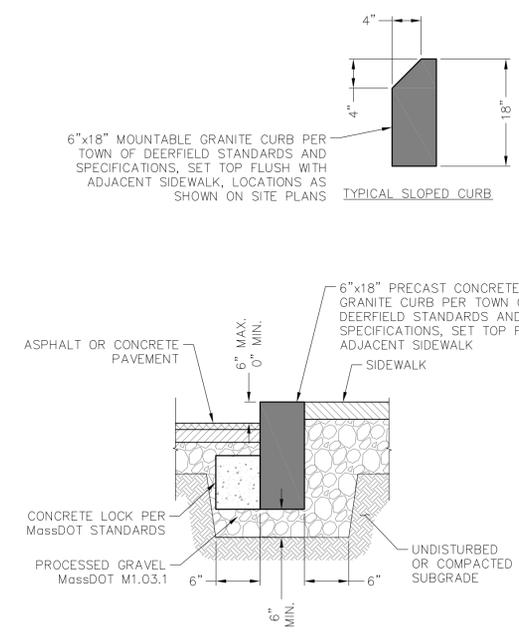
TREE ROOT BARRIER
SCALE: NONE



STANDARD DUTY BITUMINOUS PAVEMENT SECTION
SCALE: NONE



CONCRETE SIDEWALK SECTION
SCALE: NONE



CONCRETE / GRANITE CURB SECTION
SCALE: NONE

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

OWNER/APPLICANT:

STAMP:



DATE: 01/25/2022

DRAWN: STZ/BLM

CHECK: JMM/TEJ

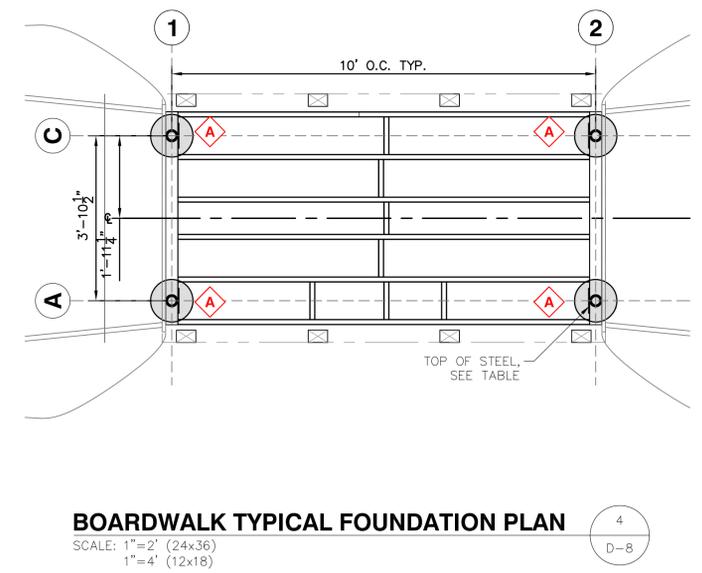
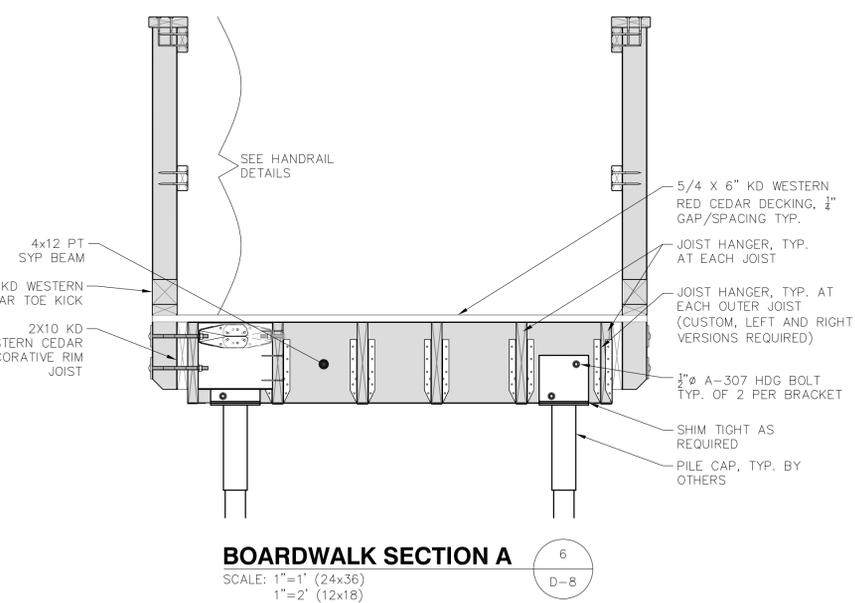
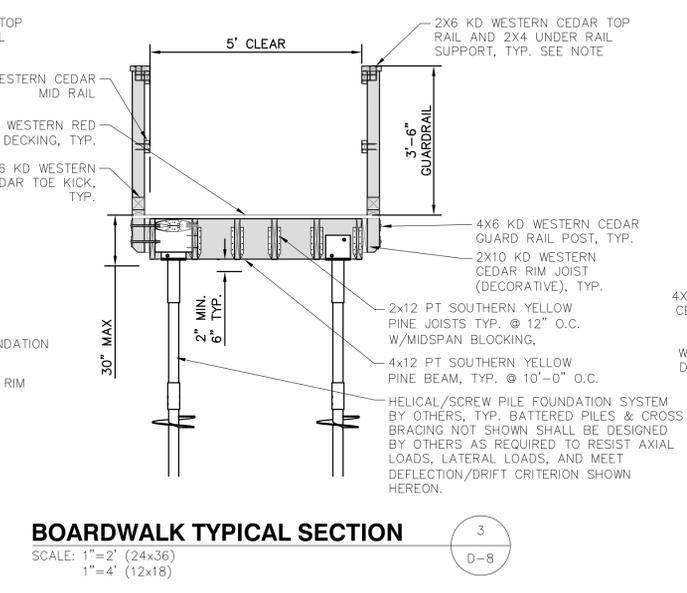
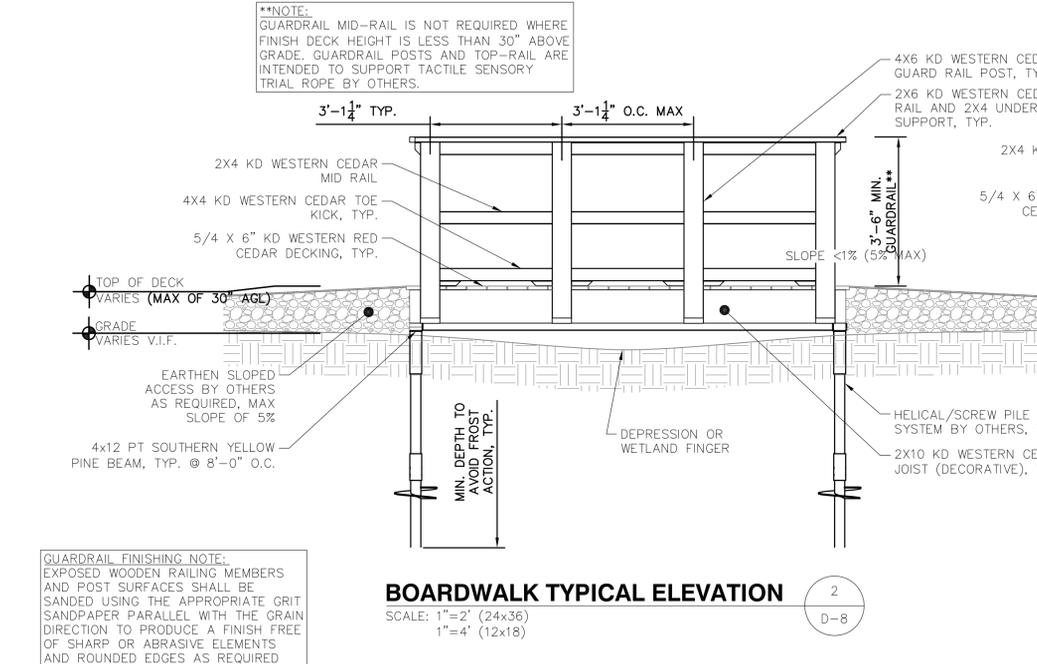
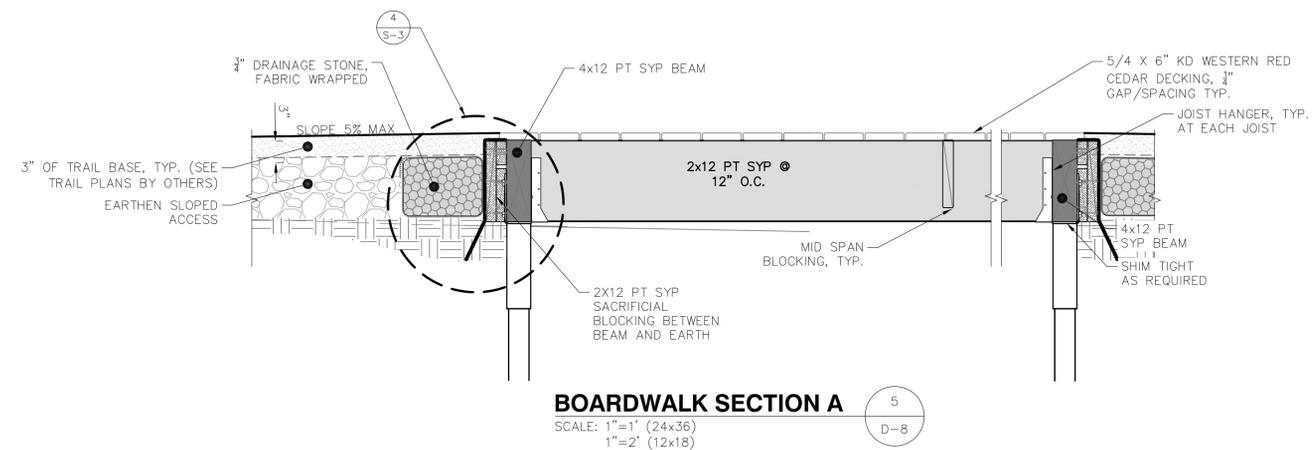
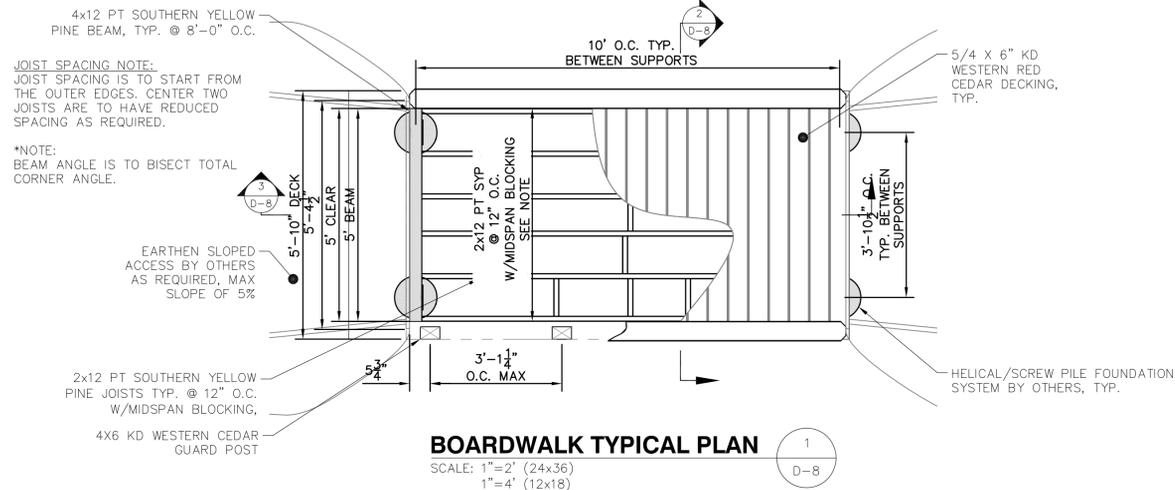
SCALE: SEE PLAN

JOB NO.: 21-006

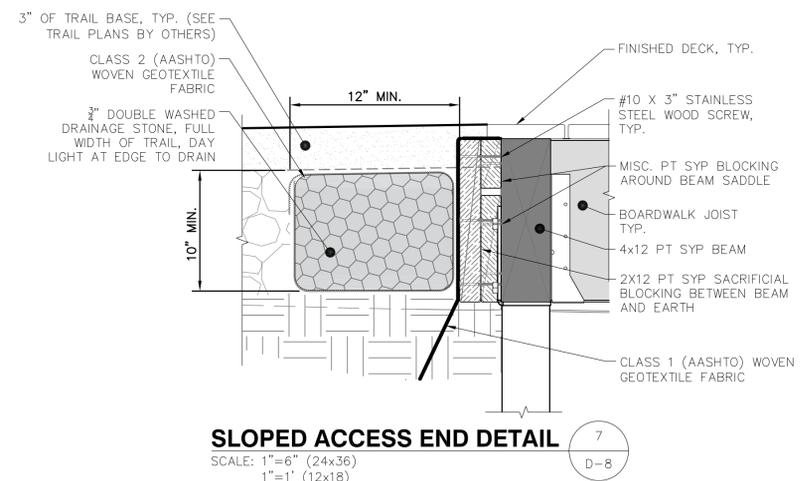
SHEET TITLE:

DETAILS

D-8



PILE SCHEDULE							
KEY	LOC.	QTY	TYPE	CAP	SETTING ELEVATION (@ BEAM SADDLE)	DESIGN CAPACITY	
						VERTICAL/GRAVITY	LATERAL * MAX DRIFT/DEFL.**
A	A(ALL), C(ALL)	TBD	HELICAL	WALKWAY BRACKET W/3 1/2" SADDLE	VARIES**** (FINISHED DECK -1.04')	4 KIPS	.8 KIPS h/200 (8" MAX.)
--- BAYS TO REQUIRE BRACING (MINIMUM) IF EXPOSED HEIGHT > 24' ***							
* LATERAL LOAD RESISTANCE IS REQUIRED IN ALL DIRECTIONS, PILES ARE TO BE BRACED AS REQUIRED. ** MAXIMUM DRIFT IS TO BE MEASURED AT THE FINISHED DECK HEIGHT. *** BRACED BAYS ARE SHOWN AS A MINIMUM. ADDITIONAL BRACING SHOULD BE ADDED AS REQUIRED TO MAINTAIN DRIFT DEFLECTION LIMITATIONS. **** PILES HEIGHTS ARE TO BE SET AS REQUIRED IN FIELD. ALL BOARDWALK SECTIONS ARE TO HAVE A MAX OF 5% SLOPE. NOTE: PILE AND BRACING DESIGN BY OTHERS							



CONSULTANT:

NO.	DATE	REVISIONS	ISSUED FOR REVIEW
A	11/16/21		ISSUED FOR REVIEW
B	11/24/21		ISSUED FOR REVIEW
C	12/13/21		ISSUED FOR REVIEW
D	12/13/21		ISSUED FOR REVIEW
E	01/25/22		CONS. COM. SUBMITTAL

TITLE: PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

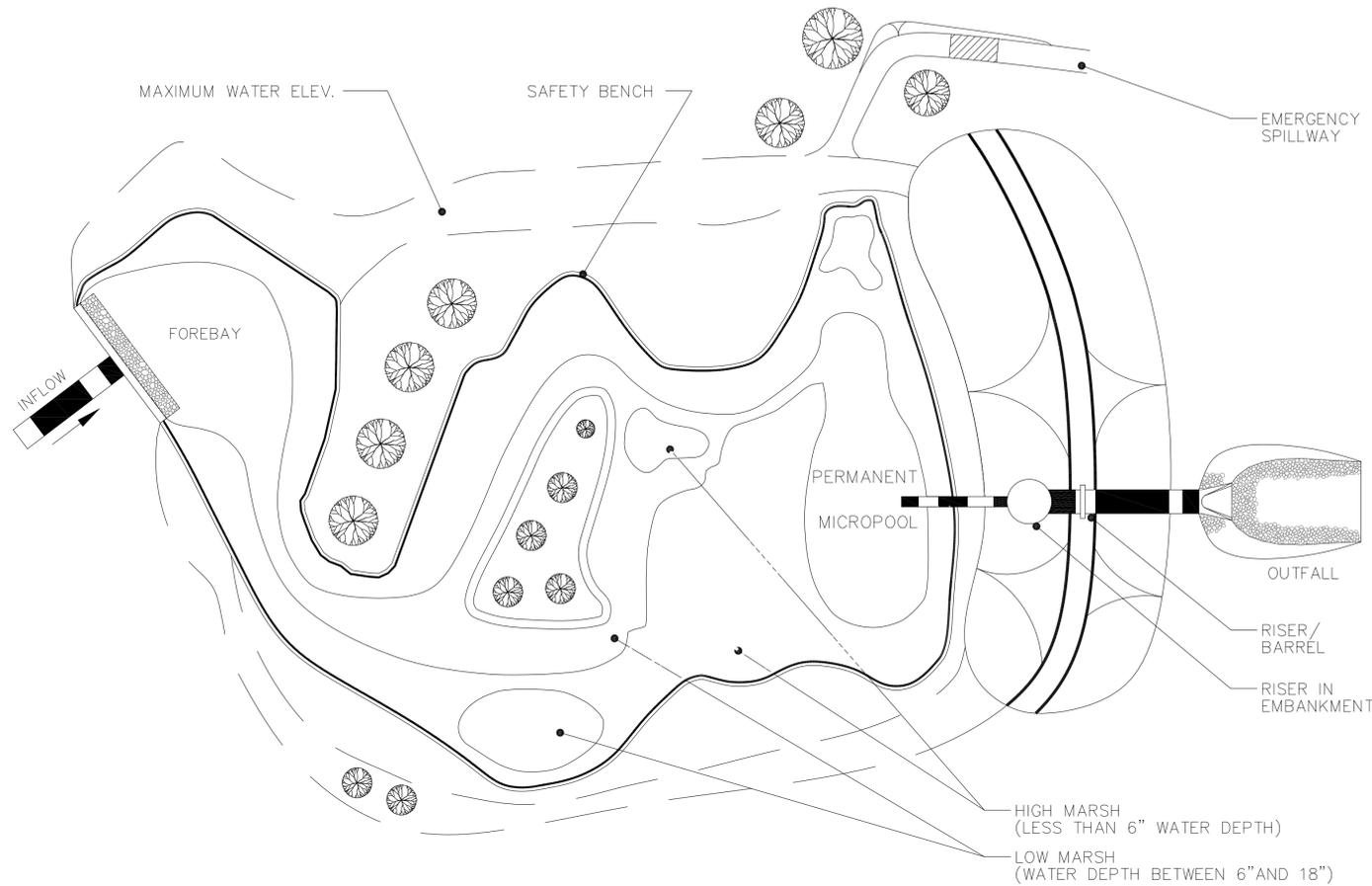
OWNER/APPLICANT: SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

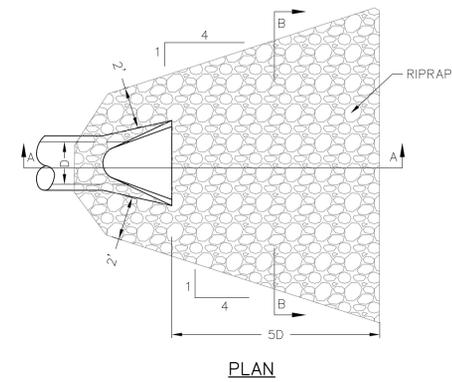
DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE: DETAILS

D-9

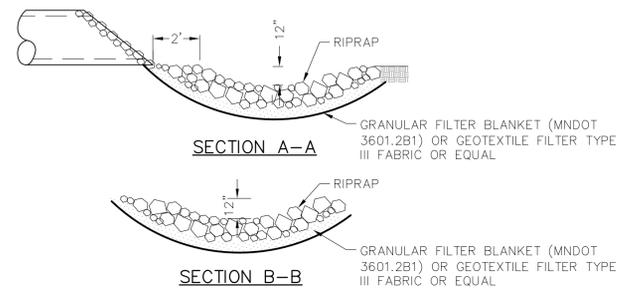


CONSTRUCTED WETLAND PLAN VIEW 1
SCALE: NONE D-9



RIPRAP REQUIREMENTS
12" TO 24" 8 to 12 CY CL.2
27" TO 33" 14 to 20 CY CL.3
36" TO 48" 23 to 38 CY CL.3
54" AND UP 62 CY and up CL.4
(ONE CUBIC YARD IS APPROXIMATELY 2,800 LBS.)

NOTE: GRANULAR FILTER BLANKET REQUIRED UNDER RIP RAP OR 2 LAYERS OF GEOTEXTILE FILTER TYPE III OR ENGINEER APPROVED EQUIVALENT



POND INLET DETAIL 3
SCALE: NONE D-9

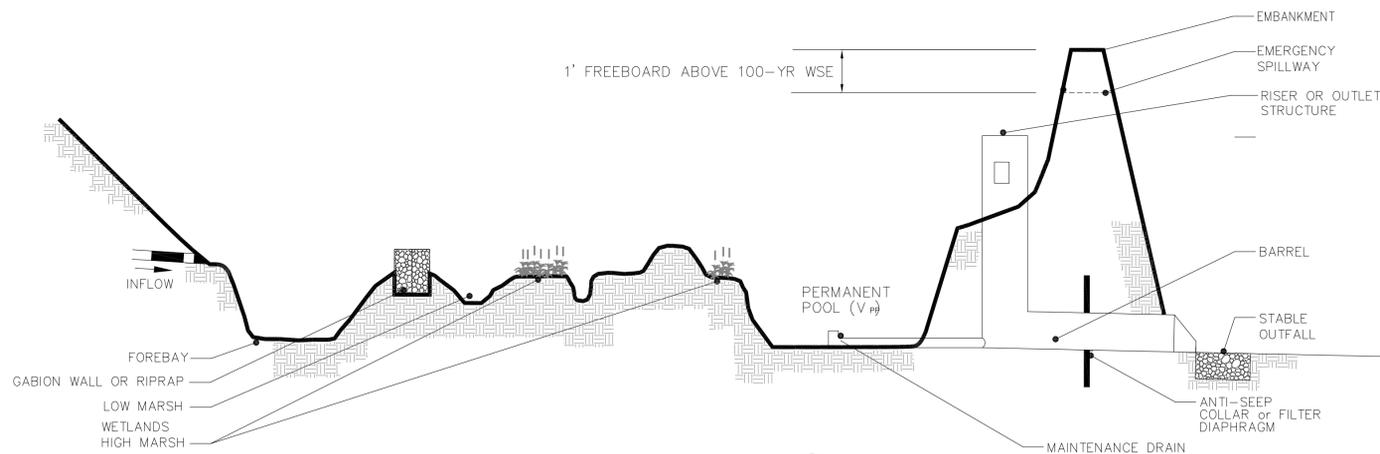
- SITE PREPARATION**
- TEMPORARY EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN & ORDER OF CONDITIONS ISSUED BY THE CONSERVATION COMMISSION.
 - AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL.
 - VEGETATION AND OTHER MATERIAL SHALL BE CLEARED FROM POND AREA.
 - TOPSOIL SHALL BE STOCKPILED FOR FUTURE USE AS SPECIFIED.

- EARTH FILL**
- FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS AND SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", FROZEN MATERIAL, AND OTHER OBJECTIONABLE MATERIALS.
 - FILL MATERIAL FOR CENTER OF EMBANKMENT SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGNED BY A GEOTECHNICAL ENGINEER.
 - MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.
 - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
 - WHEN REQUIRED BY THE REVIEWING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).
 - THE CORE OF THE EMBANKMENT SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT. THE TOP WIDTH OF THE CORE SHALL BE A MINIMUM OF FOUR FEET. THE HEIGHT SHALL EXTEND UP TO AT LEAST THE 10 YEAR WATER ELEVATION OR AS SHOWN ON THE PLANS. THE SIDE SLOPES SHALL BE 1 TO 1 OR FLATTER. THE CORE SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. IN ADDITION THE CORE SHALL BE PLACED CONCURRENTLY WITH THE OUTER SHELL OF THE EMBANKMENT.

- STRUCTURE BACKFILL**
- BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE.
 - AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE.

- CARE OF WATER DURING CONSTRUCTION**
- ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS SHALL BE INSTALLED, AS WELL AS PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE WORK.
 - AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS.
 - STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS.

- STABILIZATION AND EROSION CONTROL**
- ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH LOCAL NATURAL RESOURCES CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS. A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THESE AREAS TO SUPPORT STABILIZING VEGETATION.
 - FILTER FABRIC PLACED BENEATH THE RIP-RAP SHALL MEET STATE OR LOCAL DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR A CLASS "C" FILTER FABRIC.



CONSTRUCTED WETLAND PROFILE VIEW 2
SCALE: NONE D-9

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

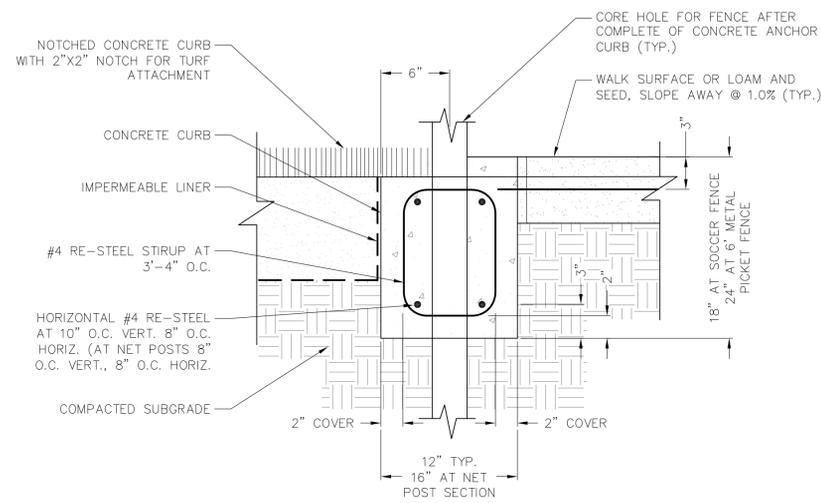


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

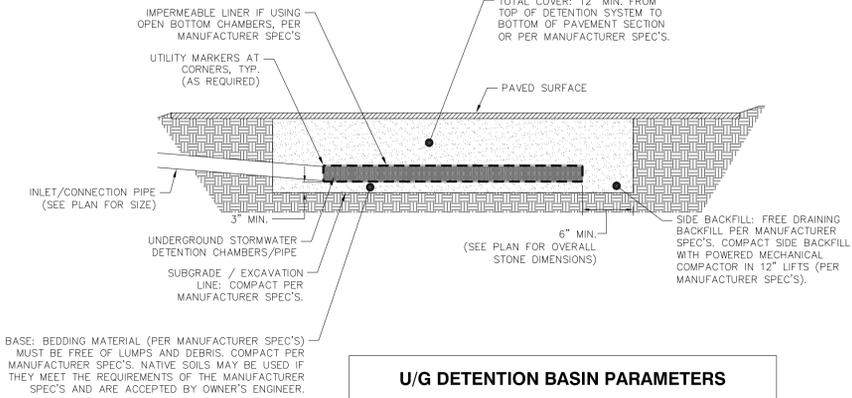
SHEET TITLE:

DETAILS

D-10

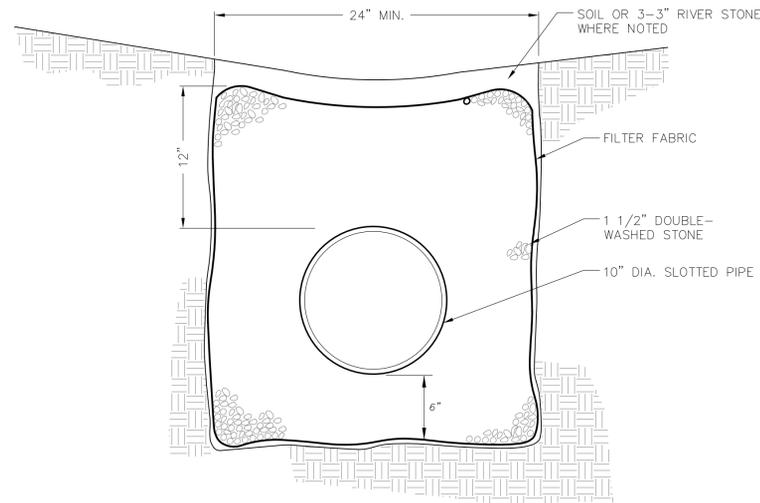


TURF ANCHOR CURBING WITH FENCE SYSTEM 1
SCALE: NONE D-10

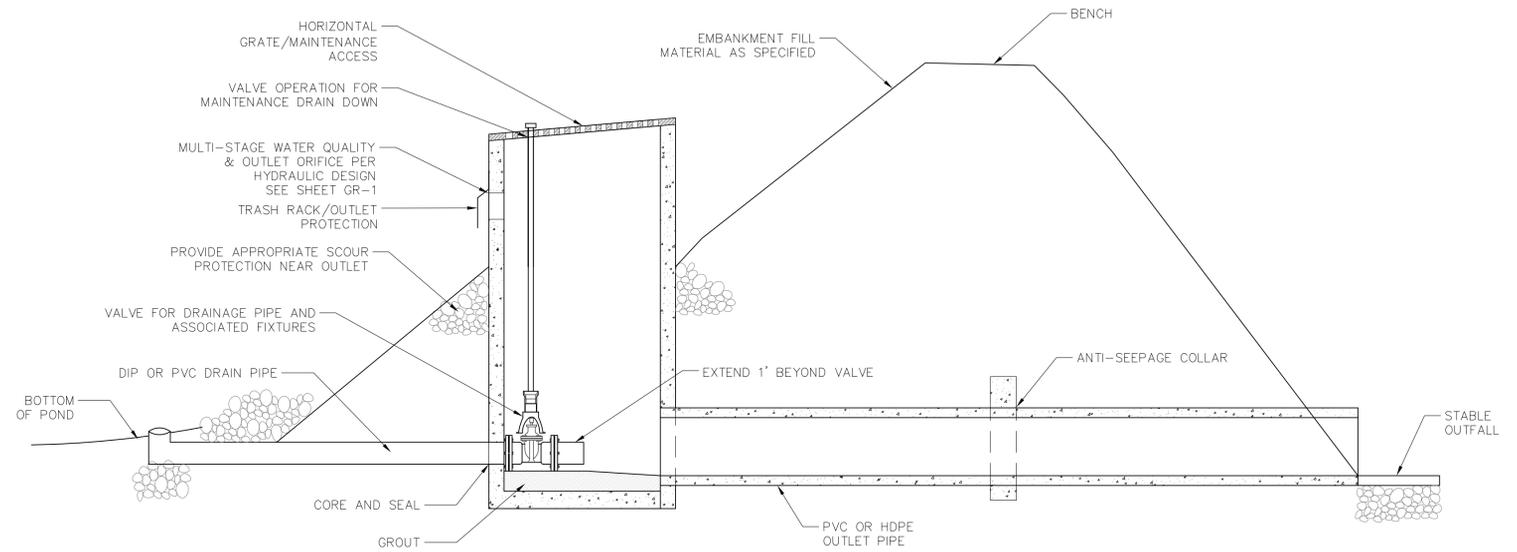


U/G DETENTION BASIN PARAMETERS			
BASIN VOLUME	BASIN DIMENSIONS	BOTTOM OF STONE	BOTTOM OF CHAMBER/PIPE
3,795 CF	40'W± x 74'L±	208.10'	208.35'

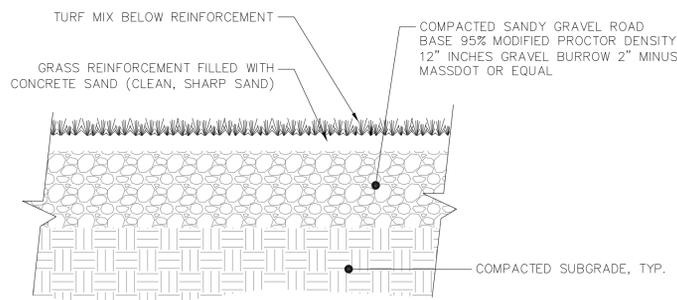
UNDERGROUND STORMWATER STORAGE/DETENTION 2
SCALE: NONE D-10



SUBDRAIN DETAIL 3
SCALE: NONE D-10

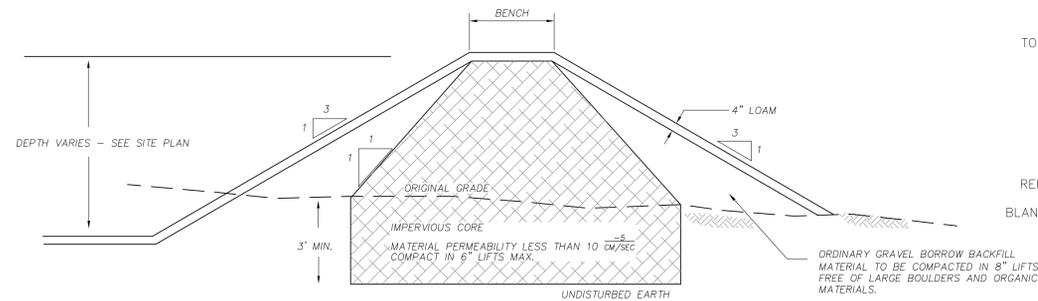


MULTI-STAGE OUTLET STRUCTURE 4
SCALE: NONE D-10

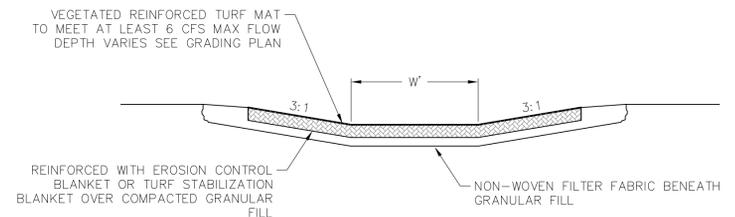


NOTE: GRASS/PLANT TYPES SHALL BE SPECIFIED BY A LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER.

TYPICAL REINFORCED GRASS FOR EMERGENCY VEHICLES 5
SCALE: NONE D-10



TYPICAL BERM DETAIL 6
SCALE: NONE D-10



EMERGENCY SPILLWAY DETAIL 7
SCALE: NONE D-10

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	01/25/22	CONS. COM. SUBMITTAL

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

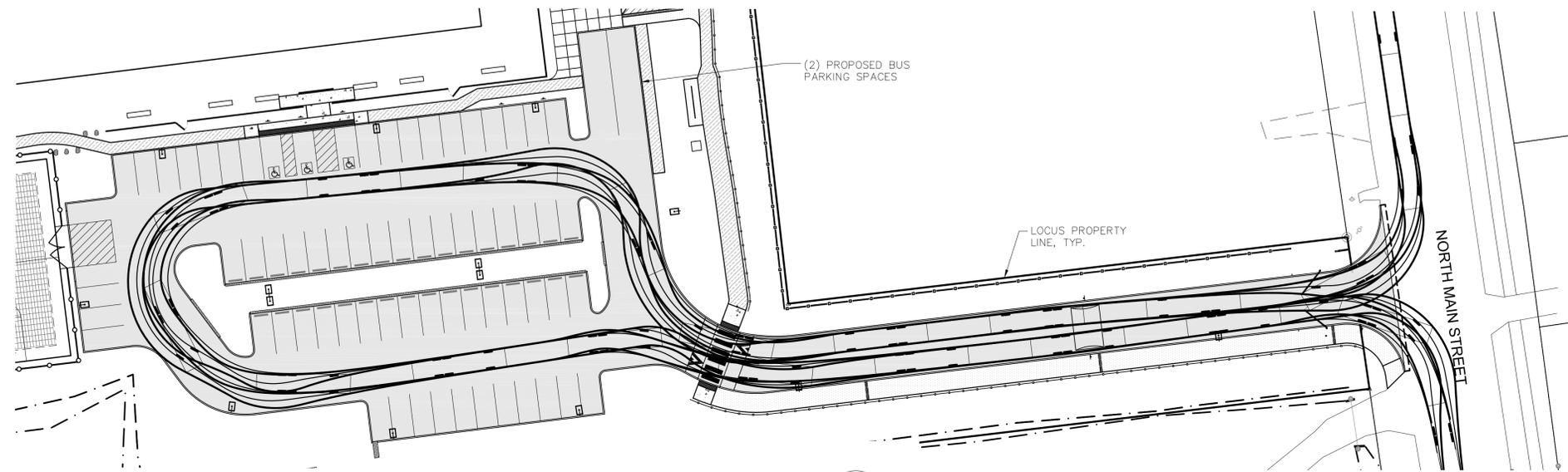


DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:

**TURNING
MOVEMENTS PLAN**

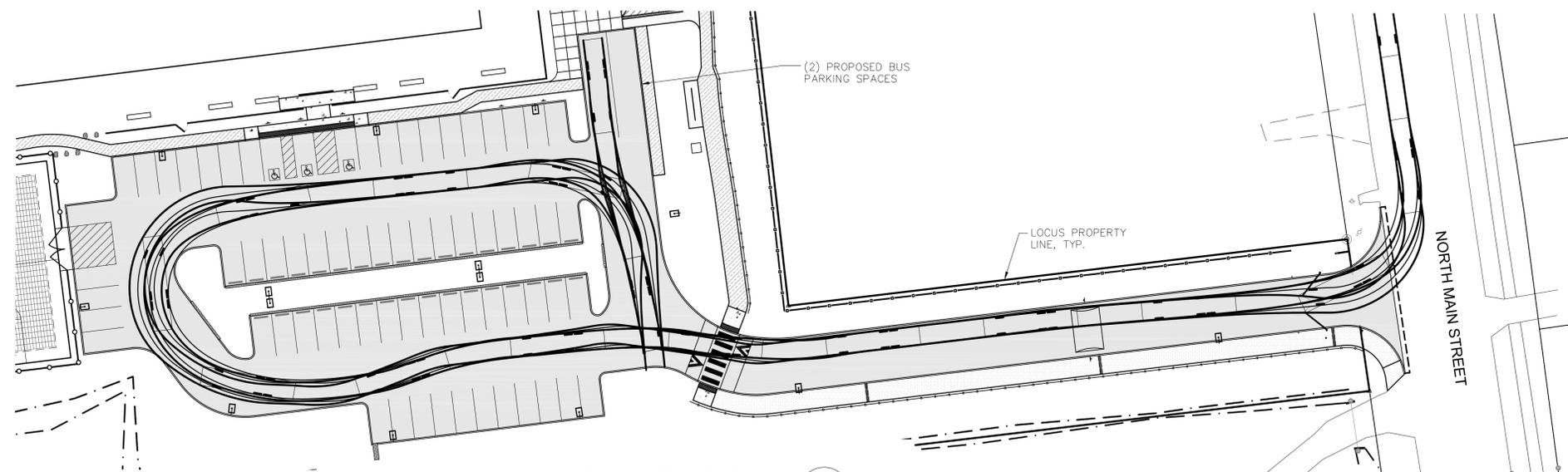
TM-1



SCHOOL BUS TURNING LOOP

SCALE: 1"=30'

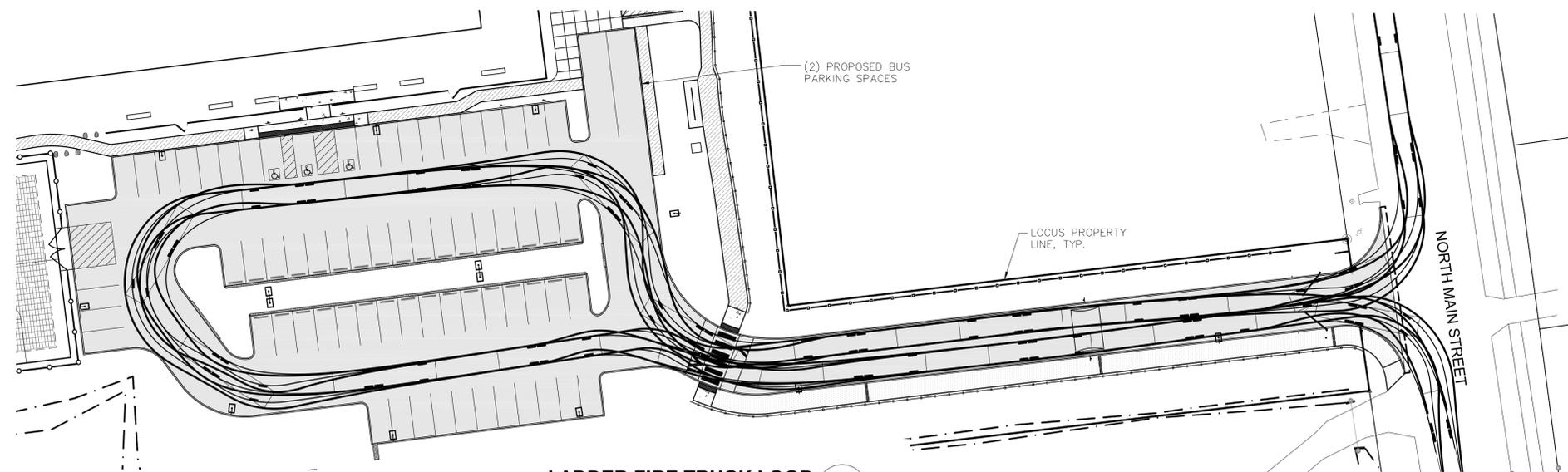
1
TM-1



SCHOOL BUS PARKING

SCALE: 1"=30'

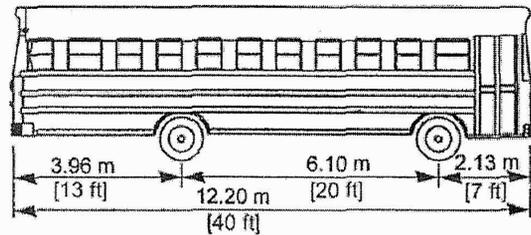
2
TM-1



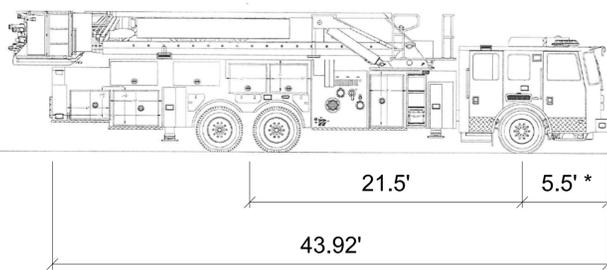
LADDER FIRE TRUCK LOOP

SCALE: 1"=30'

3
TM-1

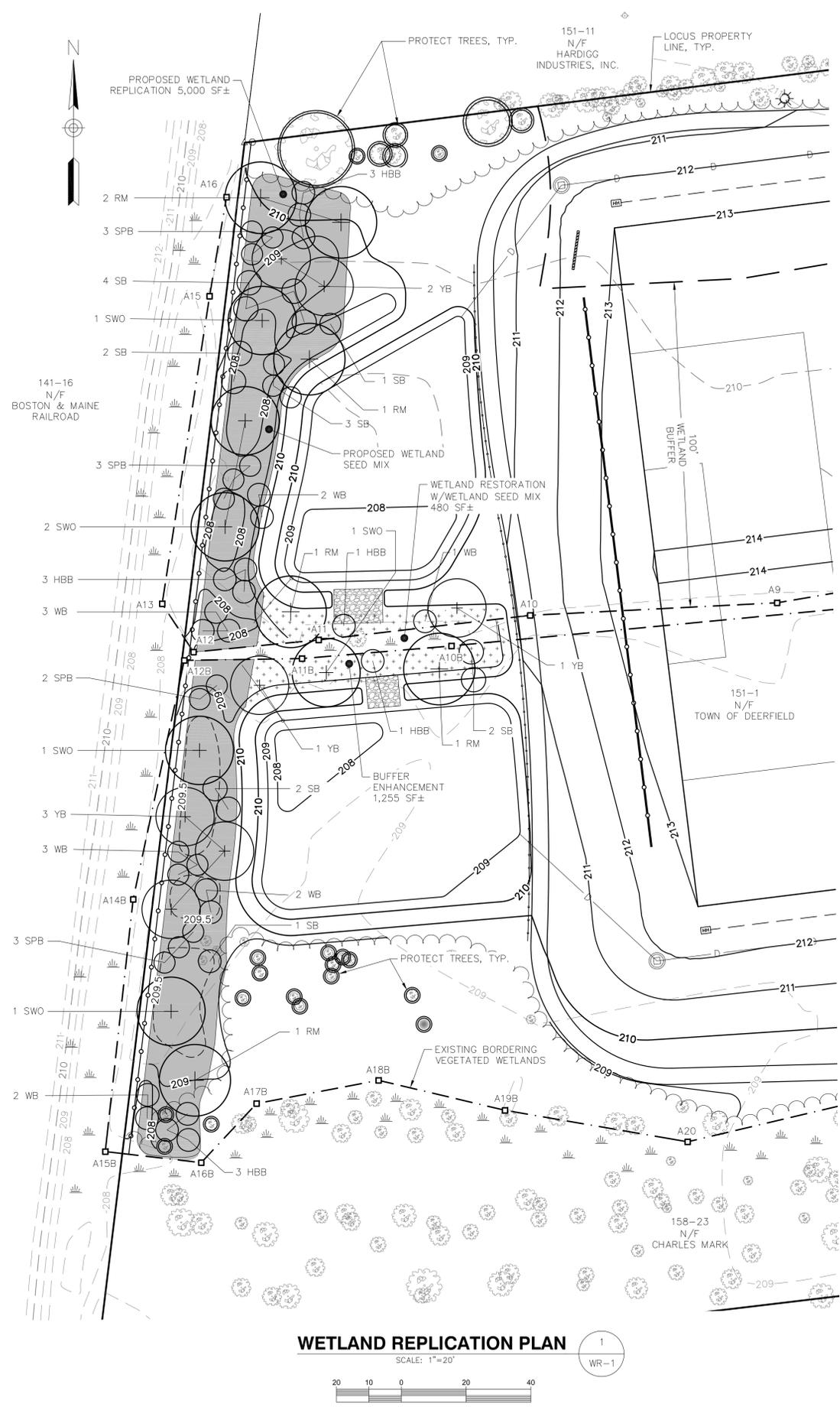


40' LONG SCHOOL BUS

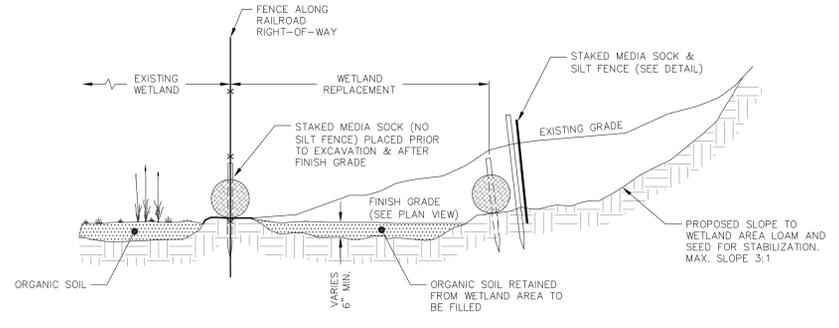


* SCALED DIMENSION

**102' KME MID-MOUNT
PLATFORM FIRE TRUCK**



WETLAND REPLICATION PLAN
SCALE: 1"=20'
1
WR-1



WETLAND REPLICATION DETAIL
SCALE: NONE
2
WR-1

NEW ENGLAND WETMIX (WETLAND SEED MIX)

BOTANICAL NAME	COMMON NAME	INDICATOR
<i>Carex vulpinoidea</i>	Fox Sedge	OBL
<i>Carex scoparia</i>	Blunt Broom Sedge	FACW
<i>Carex lurida</i>	Lurid Sedge	OBL
<i>Carex lupulina</i>	Hop Sedge	OBL
<i>Poa palustris</i>	Fowl Bluegrass	FACW
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Scripus atrovirens</i>	Green Bulrush	OBL
<i>Aclepias incarnata</i>	Swamp Milkweed	OBL
<i>Carex crinita</i>	Fringed Sedge	OBL
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Juncus effusus</i>	Soft Rush	FACW+
<i>Aster lateriflorus</i> (<i>Symphotrichum lateriflorum</i>)	Starved/Colico Aster	FACW
<i>Iris versicolor</i>	Blue Flag	OBL
<i>Glyceria grandis</i>	American Mannagrass	OBL
<i>Mimulus ringens</i>	Square Stemmed Monkey Flower	OBL
<i>Eupatorium maculatum</i> (<i>Eutrochium maculatum</i>)	Spotted Joe Pye Weed	OBL

PLANTING LIST FOR WETLAND REPLICATION, RESTORATION, & ENHANCEMENT

SYMBOL	COMMON NAME	SCIENTIFIC NAME	NUMBER	SIZE
TREES (n=19)*				
RM	RED MAPLE (FAC)	<i>ACER rubrum</i>	6	4 TO 6'
SWO	SWAMP WHITE OAK (FACW)	<i>Quercus bicolor</i>	6	4 TO 6'
YB	YELLOW BIRCH (FAC)	<i>Betula alleghaniensis</i>	7	4 TO 6'
SHRUBS (n=50)*				
SPB	SWEET PEPPERBUSH (FAC+)	<i>Clethra alnifolia</i>	11	3 GAL. POT
HBB	HIGHBUSH BLUEBERRY (FACW)	<i>Vaccinium corymbosum</i>	11	3 GAL. POT
WB	WINTERBERRY (FACW+)	<i>Ilex verticillata</i>	13	3 GAL. POT
SB	SPICEBUSH (FACW-)	<i>Lindera benzoin</i>	15	3 GAL. POT
SEED MIX				
	NEW ENGLAND WETLAND PLANTS WETMIX OR EQUIVALENT	REPLICATION, RESTORATION, & ENHANCEMENT AREA	1	6 lbs ±

*PLANTING SPECIES AND SEEDMIXES MAY BE SUBSTITUTED WITH CONSERVATION COMMISSION APPROVAL WITH SIMILAR NATIVE SPECIES WITH THE SAME WETLAND INDICATOR STATUS IF CERTAIN SPECIES ARE AVAILABLE.

- WETLAND REPLICATION NOTES:**
1. THE REPLACEMENT AREA SHALL MEET STRICT PERFORMANCE STANDARDS AS LISTED UNDER 310 CMR 10.55(4)(b). THESE STANDARDS HAVE BEEN SET IN ORDER TO PROTECT THE FUNCTIONS WHICH BORDERING VEGETATED WETLANDS PROVIDE. THESE STANDARDS SHALL BE MET BY ADHERING TO THE FOLLOWING CONSTRUCTION SPECIFICATIONS.
 2. ALL WORK ON THE REPLACEMENT AREAS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENVIRONMENTAL PROFESSIONAL (EP) INCLUDING EXCAVATION, ORGANIC SOIL REPLACEMENT, PLANTING AND SEEDING.
 3. ALL WORK SHALL PROCEED AS PER PLANS APPROVED AND NOTED IN THE ORDER OF CONDITIONS AND OTHER APPLICABLE PERMITS.
 4. THE WETLAND REPLACEMENT AREAS INDICATED ON THE PLAN SHALL BE BROUGHT TO THE INDICATED SUBGRADE (SEE WETLAND REPLACEMENT CROSS-SECTION) BEFORE THE REPLACEMENT AREA SOILS ARE PLACED.
 5. SOILS IN THE PREPARED REPLACEMENT AREA SHALL COMPRISE A 6"± B HORIZON CONSISTING OF SANDY LOAM FROM THE SITE BOTH WITHIN AND ADJACENT TO WETLANDS, AND A 6"± A HORIZON CONSISTING OF SANDY LOAM AND DECOMPOSED LEAF LITTER OR OTHER APPROVED ORGANIC MATTER, TO PROVIDE A MIN. 50% ORGANIC MATTER BY VOLUME. ANY IMPORTED WETLAND SOIL AND SOIL AMENDMENT MATERIAL SHALL BE INSPECTED BY THE EP FOR INVASIVE/EXOTIC SPECIES PRIOR TO TRANSLLOCATION TO THE SITE. COARSE, WOODY DEBRIS SHALL BE ADDED TO 10% OF THE REPLACEMENT WETLAND SURFACE AREA.
 6. WHEN FINAL GRADE IS ESTABLISHED IN THE REPLACEMENT AREAS, A WETLAND SEED MIX SUCH AS NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS, INC., AMHERST MASSACHUSETTS, OR APPROVED EQUAL SHALL BE BROADCAST THROUGHOUT THE AREA AT AN APPLICATION RATE OF 1 LB PER 2500 SF OF AS SPECIFIED BY THE MANUFACTURER, AND IT SHALL BE MULCHED WITH 1-2" THICK LAYER OF STRAW AND MAINTAINED UNTIL VEGETATION HAS BEEN ESTABLISHED.
 7. TWO ANNUAL INSPECTIONS SHALL BE MADE OF THE COMPLETED REPLACEMENT AREA BY THE EP, IN COMPLIANCE WITH MASSACHUSETTS INLAND WETLAND REPLICATION GUIDELINES, MARCH, 2002, IN ORDER TO DETERMINE WHETHER ADDITIONAL PLANTINGS (NATURAL OR FROM A NURSERY) WILL BE NECESSARY, AS WELL AS ASSESS THE OVERALL SUCCESS OF THE REPLACEMENT PROCEDURES.
 8. WITHIN TWO GROWING SEASONS, AT LEAST 75 % OF THE SURFACE OF THE REPLACEMENT AREAS SHALL BE REESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES. IF RE-ESTABLISHMENT IS INCOMPLETE AS JUDGED BY THE EP, THE CONTRACTOR SHALL MAKE ADDITIONAL PLANTINGS WITH SPECIES WHICH ALREADY OCCUR IN THE ADJACENT WETLAND.
 9. IF ANY QUESTIONS ARISE CONCERNING IMPLEMENTATION OF THESE WETLAND CONSTRUCTION SPECIFICATIONS, THE EP SHALL BE CONTACTED IMMEDIATELY.
 10. DURING THE TWO ANNUAL INSPECTIONS OF THE REPLACEMENT WETLAND AREA, THE EP SHALL IDENTIFY AND REMOVE BY HAND ALL INVASIVE PLANT SPECIES. IF THE INVASIVE POPULATION EXCEEDS 10% OF THE AERIAL EXTENT OF THE REPLACEMENT WETLAND AREA, AN INVASIVE SPECIES ACTION PLAN WILL BE SUBMITTED TO DEP FOR REVIEW AND APPROVAL.

RESOURCE SUMMARY

ITEM	QUANTITY
BORDERING VEGETATED WETLAND (BVW) FILL	2,770± SF
BORDERING VEGETATED WETLAND (BVW) RESTORATION	480± SF
WETLAND REPLICATION (>1.5:1)	5,000± SF
BANK DISTURBANCE (SEE RESOURCE PLAN)	38± LF
100' BUFFER DISTURBANCE	220,625± SF
BUFFER ENHANCEMENT AREA	1,255± SF

CONSULTANT:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

REVISIONS:

NO.	DATE	REVISIONS
A	11/16/21	ISSUED FOR REVIEW
B	11/24/21	ISSUED FOR REVIEW
C	12/13/21	ISSUED FOR REVIEW
D	12/13/21	ISSUED FOR REVIEW
E	10/25/22	CONS. COM. SUBMITTAL

PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01873
OWNER/APPLICANT:

STAMP:
JESSE M. MORENO
CIVIL ENGINEER
MA 07515
1-25-2022

DATE: 01/25/2022
DRAWN: STZ/BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 21-006

SHEET TITLE:
WETLAND REPLICATION PLAN
WR-1

PROTERRA DESIGN GROUP, LLC ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

CONSULTANT:



PLACE Alliance [NORTHEAST]
37 South Pleasant Street
Suite 3-NE
Amherst, MA 01002
Ph: (413)687-1454

NO.	DATE	REVISIONS
A	11/24/21	ISSUED FOR REVIEW
B	12/15/21	ISSUED FOR REVIEW
C	12/15/21	PRE SUBMITTAL
D	1/24/21	CC SUBMITTAL
E	1/27/21	CC SUBMITTAL

TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:



DATE: 12/15/2021

DRAWN: JD

CHECK: AJB

SCALE: SEE PLAN

JOB NO.: 21-006

SHEET TITLE:

LANDSCAPE PLAN

LS-1

8 Shade Trees
2 NS
2 PO
2 QB
2 QP

16 Shade Trees
4 AR*
4 UA
4 QB
4 QP*

*2 AR and 2 QP @ 4" caliper per Tree
Preservation Bylaw replacement
specifications

11 Shade Trees
2 AR*
2 UA
3 PO
2 QB
2 QP

*2 AR @ 4" caliper per Tree
Preservation Bylaw
replacement specifications

6 Evergreen Trees
3 AB
3 PG

2 Shade Trees & 9 Shrubs
2 UA
3 AC
4 AA
2 DL

2 Shade Trees
2 CC

4 Shade Trees
2 BN
2 PT

140 Ferns & Perennials
20 DP 25 LP
20 PA 25 MR
25 RL
25 CL

33 Shrubs
8 CS
8 LB
8 MG
9 VT

8 Shade Trees
4 BN
4 PT

7 Shade Trees
3 CF
4 UA

6 Shade Trees & 25 Shrubs
3 AR
3 QP
7 KL
9 LB
9 CP

200 Rain Garden Perennials
IVC 50
LC 50
JE 50
VN 50
(spaced throughout in groupings)

6 Shade Trees
4 AR
2 UA

2 Shade Trees
2 AR*

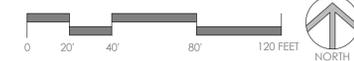
*2 AR @ 4" caliper per
Tree Preservation
Bylaw
replacement
specifications

4 Shade Trees
2 CF
2 CC

80 Ferns & Perennials
10 DP
10 PA
15 LP
15 MR
15 RL
15 CL

25 Shrubs
7 AA
6 CS
6 VT
6 CP

24 Perennials
6 LP
6 MR
6 RL
6 CL
(spaced 2' O.C.)



PROTERRA DESIGN GROUP, LLC and PLACE ALLIANCE ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

KEY

- Mown Turf Seed Mix
- Conservation / Wildlife Seed Mix
- Rain Garden Seed Mix

Notes:
For seed mix specifications and quantities see LS-3



Note:
Playground area surface to be determined

Note:
For field seeding see Engineering Plans

Note:
For field seeding see Engineering Plans

CONSULTANT:



PLACE Alliance [NORTHEAST]
37 South Pleasant Street
Suite 3-NE
Amherst, MA 01002
Ph: (413)687-1454

NO.	DATE	REVISIONS
A	11/24/21	ISSUED FOR REVIEW
B	12/15/21	ISSUED FOR REVIEW
C	12/15/21	PRE SUBMITTAL
D	1/24/21	CC SUBMITTAL
E	1/27/21	CC SUBMITTAL

TITLE:
PROPOSED MUNICIPAL PARK & FIELDS
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
SELECTBOARD
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01873

STAMP:



DATE: 12/15/2021

DRAWN: JD

CHECK: AJB

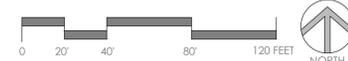
SCALE: SEE PLAN

JOB NO.: 21-006

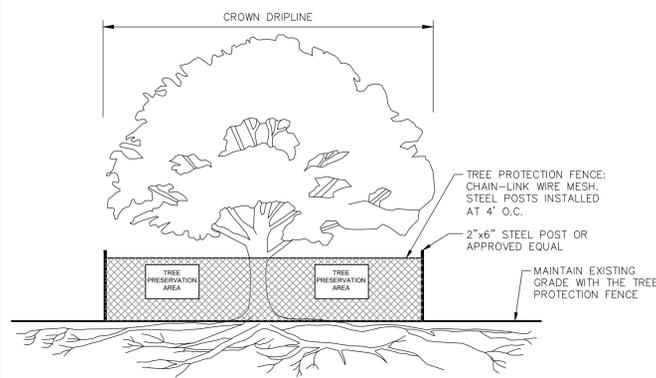
SHEET TITLE:

SEEDING PLAN

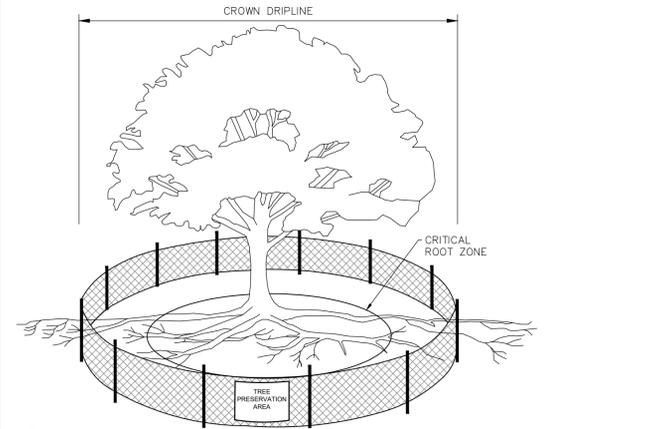
LS-2



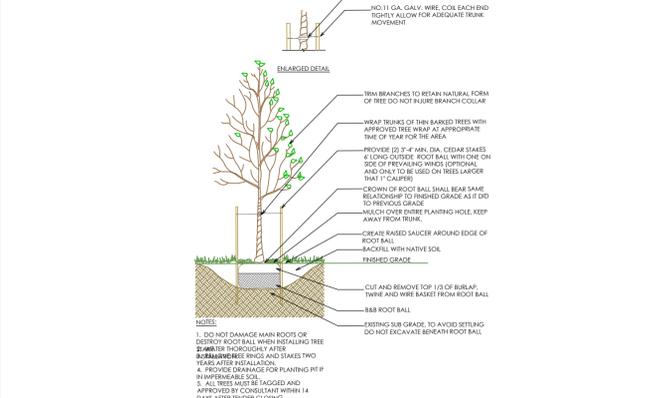
PROTERRA DESIGN GROUP, LLC and PLACE ALLIANCE ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



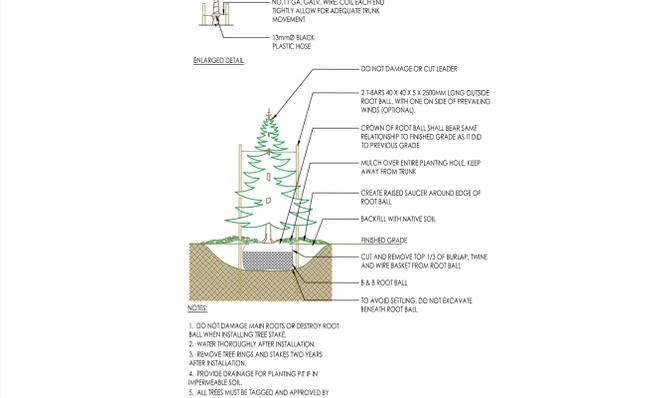
1 TREE FENCING PROTECTION
SCALE: NTS



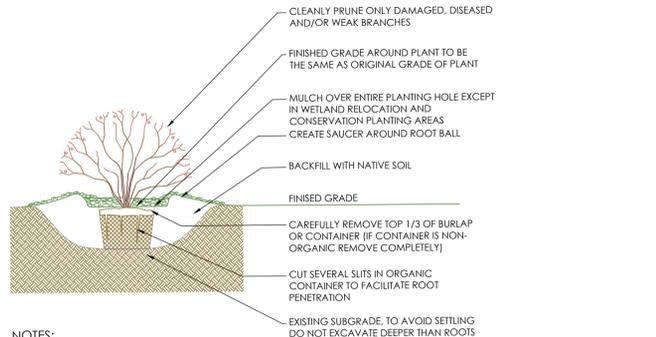
2 TREE PROTECTION ZONE
SCALE: NTS



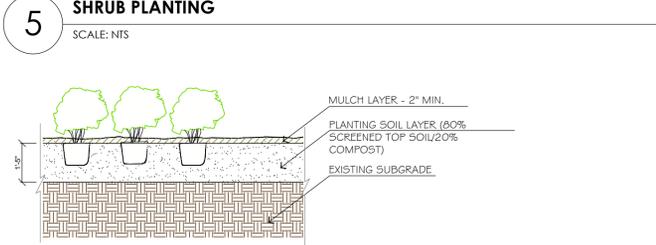
3 DECIDUOUS LANDSCAPE TREE PLANTING
SCALE: NTS



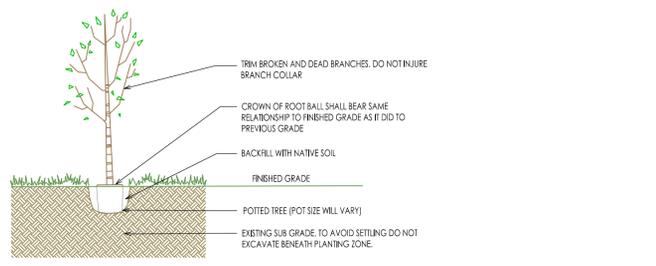
4 CONIFEROUS LANDSCAPE TREE PLANTING
SCALE: NTS



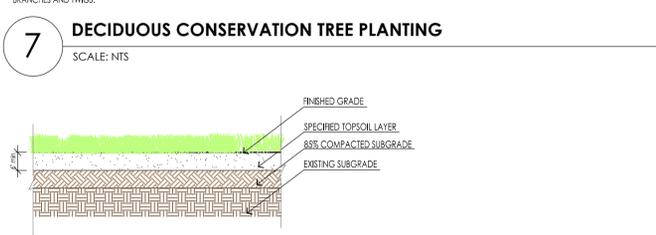
5 SHRUB PLANTING
SCALE: NTS



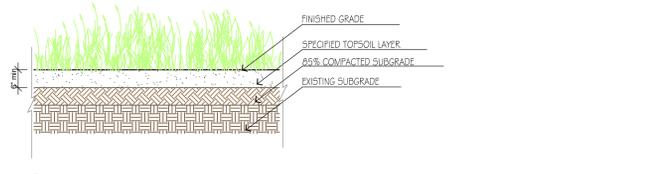
6 PERENNIAL CONTAINER PLANTING
SCALE: NTS



7 DECIDUOUS CONSERVATION TREE PLANTING
SCALE: NTS



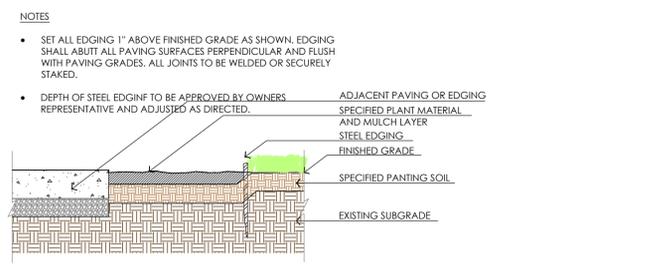
8 TURF LAWN DETAIL
SCALE: NTS



9 SEEDING AREA DETAIL (TYPICAL)
SCALE: NTS



10 SHRUB BED AREA DETAIL
SCALE: NTS



11 EDGING DETAIL
SCALE: NTS

PLANT LIST					
SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE (MINIMUM)	NOTES	QUANTITY
TREES - SHADE					
AR	Red Maple	Acer rubrum	2.5' - 3' Cal	NATIVE	9
AR	Red Maple	Acer rubrum	4' Cal	NATIVE	6
UA	Elm	Ulmus americana 'Princeton'	2.5' - 3' Cal	NATIVE	14
BN	River Birch	Betula nigra	10'-12' CLUMP	NATIVE	7
CF	Flowering Dogwood	Cornus florida	2.0' Cal	NATIVE	5
NS	Black Gum	Nyssa sylvatica	2.0' - 2.5' Cal	NATIVE	2
PO	Sycamore	Platanus occidentalis	2.0' - 2.5' Cal	NATIVE	5
PT	Quaking Aspen	Populus tremuloides	2.5' - 3' Cal	NATIVE	7
QB	Swamp White Oak	Quercus bicolor	2.5' - 3' Cal	NATIVE	8
QP	Pin Oak	Quercus palustris	4' Cal	NATIVE	2
QP	Pin Oak	Quercus palustris	2.5' - 3' Cal	NATIVE	11
CC	Eastern Redbud	Cercis canadensis	2.0' Cal	NATIVE	4
TREES - EVERGREEN					
AB	Balsam Fir	Abies balsamea	4-7' B&B	NATIVE	3
PG	White Spruce	Picea glauca	4-7' B&B	NATIVE	3
SHRUBS					
AC	Shadblow	Amelanchier canadensis	3-4' HGT	NATIVE	3
AA	Red Chokeberry	Aronia arbutifolia	3-4' HGT	NATIVE	11
CP	Sweetfern	Comptonia peregrina	12'-18' HGT	NATIVE	15
CS	Red-osier Dogwood	Cornus sericea	3-4' HGT	NATIVE	14
KL	Mountain Laurel	Kalmia latifolia	3-4' HGT	NATIVE	7
LB	Spice Bush	Lindera benzoin	3-4' HGT	NATIVE	17
MG	Sweetgale	Myrica gale	3-4' HGT	NATIVE	8
DL	Dwarf Bush Honeysuckle	Dicentra lonicera	2' HGT	NATIVE	2
VT	American Cranberry Bush	Viburnum trilobum	3-4' HGT	NATIVE	15
FERNS					
DP	Hoy-scented Fern	Dennstaedtia punctilobula	1 GAL	NATIVE	30
PA	Christmas Fern	Polystichum acrostichoides	1 GAL	NATIVE	30
HERBACEOUS - WET					
IVC	Blue Flag Iris	Iris versicolor	2' PLUG / QT	NATIVE	50
LC	Cardinal Flower	Lobelia cardinalis	2' PLUG / QT	NATIVE	50
JE	Soft Rush	Juncus effusus	2' PLUG / QT	NATIVE	50
VN	New York Ironweed	Vernonia noveboracensis	2' PLUG / QT	NATIVE	50
HERBACEOUS - DRY					
LP	Wild Blue Lupine	Lupinus perennis	2' PLUG / QT	NATIVE	46
MR	Wild Bergamot	Monarda fistulosa	2' PLUG / QT	NATIVE	46
RL	Cut Leaf Coneflower	Rudbeckia laciniata	2' PLUG / QT	NATIVE	46
CL	Lanceleaf Coreopsis	Coreopsis lanceolata	2' PLUG / QT	NATIVE	46

MOWN TURF SEED MIX	
58,155 S.F.	230 lbs
25% Creeping Red Fescue	
25% Annual Ryegrass	
25% Perennial Ryegrass, 'Amazing A+' (turf type)	
25% Perennial Ryegrass, 'Confetti III' (turf type)	

NOTE: Outside limits of playing fields

RAIN GARDEN SEED MIX	
21,160 S.F.	10 lbs
Little Bluestem, 'Illasco', MN Ecotype	
Virginia Wildrye, PA Ecotype	
Fox Sedge, PA Ecotype	
River Oats, WV Ecotype	
Purple Coneflower	
Partridge Pea, PA Ecotype	
Lanceleaf Coreopsis	
Redtop Panicgrass, PA Ecotype	
Blackeyed Susan	
Blue Vervain, PA Ecotype	
Oxeye Sunflower, PA Ecotype	
Swamp Milkweed, PA Ecotype	
Blunt Broom Sedge, PA Ecotype	
Wild Senna, VA & WV Ecotype	
Narrowleaf Mountainmint	
New England Aster, PA Ecotype	
Blue False Indigo, Southern WV Ecotype	
Golden Alexanders	
Wild Bergamot, Fort Indiantown Gap-PA Ecotype	
Common Sneezeweed, PA Ecotype	
Path Rush, PA Ecotype	
Boneset, PA Ecotype	
Soft Rush	
Sundrops	
Gray Goldenrod, PA Ecotype	
Wrinkleleaf Goldenrod, PA Ecotype	

CONSERVATION / WILDLIFE SEED MIX	
42,330 S.F.	tbd lbs
Big Bluestem	
Little Bluestem	
Switchgrass	
Fox Sedge	
Silky Wild Rye	
Common Milkweed	
Deertongue	
Pennsylvania Smartweed	
Partridge Pea	
Silky Smooth Aster	
Nodding Bur-Marigold	
Flat-top Aster	

- CONSTRUCTION AND PLANTING NOTES:
- Contractor shall provide project designer with samples, photos, cut sheets, and other documentation for all proposed materials as needed to ensure the products to be installed and used on-site meet the design intent and specification.
 - The specified planting and construction shall be executed to the limits shown on the accompanying plan.
 - Plants to be approved by project designer prior to delivery to site.
 - The planting process will be supervised by PLACE Alliance. Plant locations shall be staked in the field prior to installation for approval by project designer and may be adjusted based on site-specific conditions. Plant substitutions due to commercial availability or hydrological conditions may be made by the project designer.
 - Planting will be delayed as needed to ensure planting is completed during dry weather. Contractor shall verify the receipt of plants in good condition, as specified, and in the quantities shown on the plan. Plant substitution may only be made by PLACE Alliance. All commercially obtained stock will be bare root. (Planting of bare root plants will only be installed between April 1st to June 15th or September 15th to November 30th), container-grown or B4B, and secured through regional sources to ensure that plants will be adapted to local climate and site-specific conditions. All plant material shall conform to the guidelines established by "The American Nursery and Landscape Association", latest edition.
 - No planting will occur in frozen ground. Planting will be targeted for dry conditions. Plantings will be commensurate with all notes and specifications on this plan. PLACE Alliance will be on site during planting operations to finalize exact locations of all plants based upon specific hydrologic and site requirements.
 - Seed will be mixed in the specified proportions by weight and document the vendor's guarantee of analysis. Seed will be applied by the broadcast method at the rate specified. Seeding will take place after all other planting is complete. All seeded areas will be hydro-mulched with a tackifier or covered with an erosion control blanket to reduce erosion.
 - All due care will be taken during the site preparation and planting work to avoid compaction of soils.
 - The contractor shall be responsible for the careful installation, maintenance (including watering), and establishment of the seeded areas and all installed plant materials. All plants shall be guaranteed by the contractor to remain alive and healthy for a 12 month period. Beyond 12 months, the owner will be responsible for replacing vegetation, preventing erosion, and maintaining the proper function of the basin in compliance with the maintenance plan.
 - Proposed plants to be installed as specified.

- LANDSCAPE MAINTENANCE
- Annual landscape maintenance is required to control undesired and invasive plant species.
 - Inspection of the landscape plants shall occur one (1) time per month for the first year. This inspection should include an assessment of plant health and vigor and eradication of any weeds, invasive plants, or "volunteer" plants that may sprout.
 - Seeded grasses shall be mature after 2 years of growth. The 2 year window is important for grass species establishment. Woody and invasive volunteer species in this area shall be eradicated as they are seen and the area is to be overseeded.
 - Native / wildflower areas can take up to 2 years until the perennial plants reach maturity. Invasive and non-native volunteer species shall be eradicated when seen during inspections. Weed and invasive species eradication shall be executed in a manner that does not disrupt adjacent plant growth.
 - Long term maintenance of the grassy and wildflower/meadow areas should include an early spring mowing between March 1 - April 10. The mowing should occur at a maximum of 1 time per year and minimum of every 3 years. This mowing should NOT occur in the first spring after seeding unless the incidence of weeds is out-competing the intended plant species.
 - Native plants may be added as necessary in the event of plant loss.
 - Invasive species shall be controlled as needed.

ProTerra
DESIGN GROUP, LLC

4 Bay Road, Bldg A
Suite 200
Hodley, MA 01035
Ph: (413)320-4918

CONSULTANT:

PLACE Alliance [NORTHEAST]
37 South Pleasant Street
Suite 3-NE
Amherst, MA 01002
Ph: (413)687-1454

NO.	DATE	REVISIONS
A	11/24/21	ISSUED FOR REVIEW
B	12/15/21	ISSUED FOR REVIEW
C	12/15/21	PBE SUBMITTAL
D	1/24/21	CC SUBMITTAL
E	1/27/21	CC SUBMITTAL

TITLE: **PROPOSED MUNICIPAL PARK & FIELDS**
NORTH MAIN STREET,
SOUTH DEERFIELD, MA

OWNER/APPLICANT:
TOWN OF DEERFIELD, MUNICIPAL OFFICES
8 CONWAY STREET
SOUTH DEERFIELD, MA 01373

STAMP:

DATE: 12/15/2021
DRAWN: JD
CHECK: AJB
SCALE: SEE PLAN
JOB NO.: 21-006
SHEET TITLE:
LANDSCAPE DETAILS AND NOTES
LS-3

PROTERRA DESIGN GROUP, LLC and PLACE ALLIANCE ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



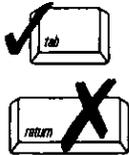
APPENDIX C
DETERMINATION OF APPLICABILITY



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 2 – Determination of Applicability
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

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



From:

Deerfield
 Conservation Commission

To: Applicant

Town of Deerfield
 Name
8 Conway Street
 Mailing Address
South Deerfield MA 01373
 City/Town State Zip Code

Property Owner (if different from applicant):

 Name

 Mailing Address

 City/Town State Zip Code

1. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

<u>Wetlands Delineation, North Main Street, Deerfield MA</u>	<u>08/13/2020</u>
Title	Date
_____	_____
Title	Date
_____	_____
Title	Date
_____	_____

2. Date Request Filed:

08/13/2020

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Project Location:

North Main Street,
 Street Address
151
 Assessors Map/Plat Number

South Deerfield
 City/Town
1
 Parcel/Lot Number



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

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

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination

Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) or Order of Resource Area Delineation (issued following submittal of Simplified Review ANRAD) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

1. The area described on the referenced plan(s) is an area subject to protection under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

2b. The boundaries of resource areas listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

3. The work described on referenced plan(s) and document(s) is within an area subject to protection under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to protection under the Act. Therefore, said work requires the filing of a Notice of Intent or ANRAD Simplified Review (if work is limited to the Buffer Zone).

5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name

Ordinance or Bylaw Citation



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

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

B. Determination (cont.)

6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:

7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)c. for more information about the scope of alternatives requirements):

- Alternatives limited to the lot on which the project is located.
- Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

1. The area described in the Request is not an area subject to protection under the Act or the Buffer Zone.
2. The work described in the Request is within an area subject to protection under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to protection under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

4. The work described in the Request is not within an Area subject to protection under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to protection under the Act.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

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

B. Determination (cont.)

- 5. The area described in the Request is subject to protection under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

- 6. The area and/or work described in the Request is not subject to review and approval by:

Name of Municipality

Pursuant to a municipal wetlands ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

- by hand delivery on by certified mail, return receipt requested on

9-17-2020
Date

Date

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. A copy must be sent to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/>) and the property owner (if different from the applicant).

Signatures:

[Handwritten signatures]

[Handwritten signature: T. J. Kitchey]

8/27/2020
Date



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

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

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/>) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see Request for Departmental Action Fee Transmittal Form) as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant if he/she is not the appellant. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
Request for Departmental Action Fee
Transmittal Form

DEP File Number: _____

Provided by DEP _____

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

A. Request Information

1. Location of Project

a. Street Address _____ b. City/Town, Zip _____
 c. Check number _____ d. Fee amount _____

2. Person or party making request (if appropriate, name the citizen group's representative):

Name _____
 Mailing Address _____
 City/Town _____ State _____ Zip Code _____
 Phone Number _____ Fax Number (if applicable) _____

3. Applicant (as shown on Determination of Applicability (Form 2), Order of Resource Area Delineation (Form 4B), Order of Conditions (Form 5), Restoration Order of Conditions (Form 5A), or Notice of Non-Significance (Form 6)):

Name _____
 Mailing Address _____
 City/Town _____ State _____ Zip Code _____
 Phone Number _____ Fax Number (if applicable) _____

4. DEP File Number: _____

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



B. Instructions

1. When the Departmental action request is for (check one):

- Superseding Order of Conditions – Fee: \$120.00 (single family house projects) or \$245 (all other projects)
- Superseding Determination of Applicability – Fee: \$120
- Superseding Order of Resource Area Delineation – Fee: \$120

Send this form and check or money order, payable to the *Commonwealth of Massachusetts*, to:

Department of Environmental Protection
 Box 4062
 Boston, MA 02211



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

DEP File Number:

**Request for Departmental Action Fee
Transmittal Form**

Provided by DEP

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

B. Instructions (cont.)

2. On a separate sheet attached to this form, state clearly and concisely the objections to the Determination or Order which is being appealed. To the extent that the Determination or Order is based on a municipal bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.
3. Send a **copy** of this form and a **copy** of the check or money order with the Request for a Superseding Determination or Order by certified mail or hand delivery to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/>).
4. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.



APPENDIX D

ABUTTER INFORMATION AND NOTIFICATION



Known for excellence.
Built on trust.

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION
MANAGEMENT

1350 Main Street
Suite 1400
Springfield, MA 01103
T: 413.726.2100
F: 413.732.1249
www.gza.com

February 7, 2022
GZA File No: 15.0167016.00

To: Project Abutters

From: GZA GeoEnvironmental, Inc. (GZA)

Re: Notice of Intent Application
Deerfield Park and Playing Fields
Map 151, Lot 1
0 North Main Street
South Deerfield, MA

Dear Project Abutter:

GZA GeoEnvironmental Inc., has submitted a Notice of Intent (NOI) application to the Deerfield Conservation Commission on behalf of the Town of Deerfield for the above-referenced project.

Pursuant to the Wetlands Protection Act Regulations, 310 CMR 10.00, abutters within 100-feet of the property must be notified of the Notice of Intent application via certified mail, certificate of mailing, or hand delivery.

The Public Hearing to discuss this application is anticipated to be on **Thursday, February 24, 2022** agenda. The meeting will be held virtually with agenda and meeting access information available at <https://www.deerfieldma.us/conservation-commission>. Additional information about this application can be obtained by contacting the Deerfield Conservation Commission at bldgasst@town.deerfield.ma.us.

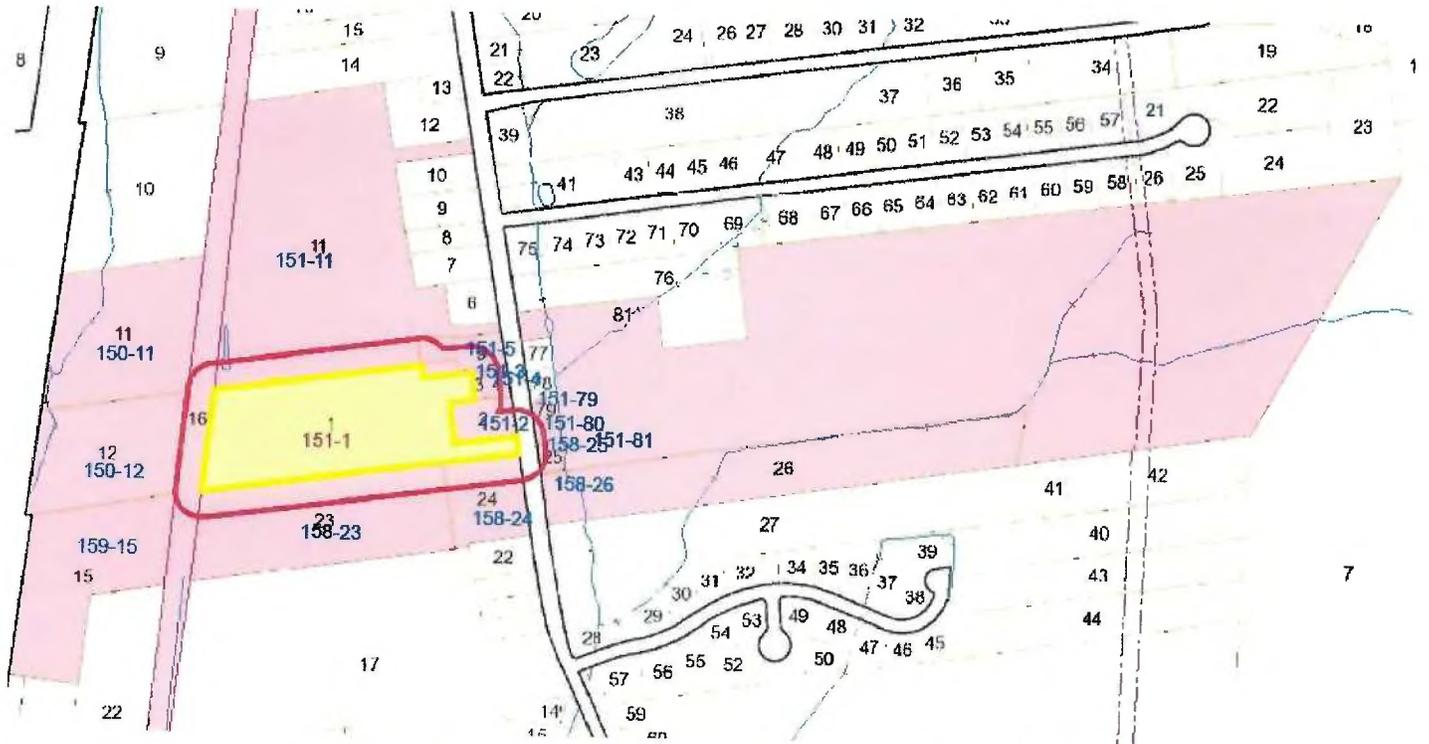
Very truly yours,
GZA GeoEnvironmental, Inc.

Adrienne Dunk, WPIT
Assistant Project Manager



BOARD OF ASSESSORS

8 Conway Street
South Deerfield, MA 01373
Tel: (413) 665-1400, x106
Fax: (413) 665-7275



100 Ft. Abutters to Map 151 Lot 1

Deerfield, MA

This is to certify that, according to the most recent real estate tax list for the Town of Deerfield and given the information provided to us by the requestor, the names and addresses of the assessed owners of properties abutting the parcel shown on the above sketch are listed on the following page(s):

1/20/2022
Date

Karen S. Menard
Administrative Assistant
Board of Assessors
Town of Deerfield



100 foot Abutters List Report

Deerfield, MA
January 19, 2022

Subject Property:

Parcel Number: 151-1
CAMA Number: 151-1
Property Address: 135 NORTH MAIN ST

Mailing Address: TOWN OF DEERFIELD RECREATION
FIELD
8 CONWAY ST
S DEERFIELD, MA 01373

Abutters:

Parcel Number: 150-11
CAMA Number: 150-11
Property Address: GREENFIELD RD

Mailing Address: LANDREAU REALTY LLC
129 STURBRIDGE RD
CHARLTON, MA 01507

Parcel Number: 150-12
CAMA Number: 150-12
Property Address: GREENFIELD RD

Mailing Address: LANDREAU REALTY LLC
129 STURBRIDGE RD
CHARLTON, MA 01507

Parcel Number: 151-11
CAMA Number: 151-11
Property Address: 147 NORTH MAIN ST

Mailing Address: HARDIGG INDUSTRIES INC
147 NO MAIN ST
SO DEERFIELD, MA 01373

Parcel Number: 151-2
CAMA Number: 151-2
Property Address: 137 NORTH MAIN ST

Mailing Address: DUPUIS MICHAEL D + GAIL M
137 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 151-3
CAMA Number: 151-3
Property Address: OFF NORTH MAIN ST

Mailing Address: LAMA SONAM
261 GREENFIELD RD
S DEERFIELD, MA 01373

Parcel Number: 151-4
CAMA Number: 151-4
Property Address: 141 NORTH MAIN ST

Mailing Address: LAMA SONAM
261 GREENFIELD RD
S DEERFIELD, MA 01373

Parcel Number: 151-5
CAMA Number: 151-5
Property Address: NORTH MAIN ST

Mailing Address: HARDIGG INDUSTRIES INC
147 NO MAIN ST
SO DEERFIELD, MA 01373

Parcel Number: 151-79
CAMA Number: 151-79
Property Address: 138 NORTH MAIN ST

Mailing Address: HOWARD ALLISON L
138 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 151-80
CAMA Number: 151-80
Property Address: 136 NORTH MAIN ST

Mailing Address: MARTIN STACY M
136 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 151-81
CAMA Number: 151-81
Property Address: NORTH MAIN ST

Mailing Address: BYSIEWSKI JOHN
215 RIVER RD
S DEERFIELD, MA 01373


www.cai-tech.com

Data shown on this report is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this report.



100 foot Abutters List Report

Deerfield, MA
January 19, 2022

Parcel Number: 158-23
CAMA Number: 158-23
Property Address: OFF NORTH MAIN ST

Mailing Address: RATHBONE JUDITH
131 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 158-24
CAMA Number: 158-24
Property Address: 131 NORTH MAIN ST

Mailing Address: RATHBONE JUDITH
131 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 158-25
CAMA Number: 158-25
Property Address: NORTH MAIN ST

Mailing Address: MARTIN STACY M
136 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 158-26
CAMA Number: 158-26
Property Address: 130 NORTH MAIN ST

Mailing Address: DESKAVICH JOYCE A
130 N MAIN ST
S DEERFIELD, MA 01373

Parcel Number: 159-15
CAMA Number: 159-15
Property Address: 88 GREENFIELD RD

Mailing Address: TOWN OF DEERFIELD (REC FIELD)
8 CONWAY STREET
S DEERFIELD, MA 01373



GZA GeoEnvironmental, Inc.