

Town of Milford Meeting Notice

Board or Commission: Conservation Commission

Date and Time of Meeting: Wednesday November 18, at 7.00 P. M

Place of Meeting---Pursuant to Governor Baker's March 12, 2020 order suspending certain provisions of the Open Meeting Law, G.L. c. 30A sec. 18, and the Governor's March 15, 2020 Order concerning imposition of strict limitations on the number of people that may gather in one place, this meeting is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order.

PUBLIC HEARINGS

Public Hearing access now requires advanced registration. Any member of the public may now register to access the zoom meeting as an attendee. Public attendees will be able to view the zoom LIVE and request to speak at the Public Hearing. Please register with zoom at <http://tiny.cc/c0d2tz>. All testimony at a public hearing, including documents or exhibits, must be in connection with the matter being considered, and confined to the matter at hand, and will be limited to five minutes to allow for the opportunity for others to participate.

7.00pm General Business

Review & Approve minutes

1. **Partial Certificate of Compliance- DEP#223-1122** 13 Kate Lane Snowflake LLC
2. **Partial Certificate of Compliance-DEP#223-1122** 4 Megan Ct. Snowflake LLC
3. **Certificate of Compliance-DEP#223-1167** 1 National St. Milford National LLC
4. **Certificate of Compliance-DEP#223-1067** Godfrey Brook Congress Terrace to W. Walnut St; Main St.
5. **Certificate of Compliance-DEP#223-1146** 15 Gordon Drive F & D Central Realty Corp
6. **Certificate of Compliance-DEP#223-1141** 18 Gordon Drive F & D Central Realty Corp
7. **Certificate of Compliance-DEP#223-1159** 10 Gordon Drive F & D Central Realty Corp
8. **Certificate of Compliance-DEP#223-1148** 19 Gordon Drive F & D Central Realty Corp
9. **Certificate of Compliance-DEP#223-1157** 114 Beaver Street D & F Afonso Builders
10. **Certificate of Compliance-DEP#223-1158** 116 Beaver Street D & F Afonso Builders
11. **Certificate of Compliance-DEP#223-1118** 54 Field Pond Road Sanylah Crossing
12. **Certificate of Compliance-DEP#223-1113** 67 Field Pond Road Sanylah Crossing

Public Hearings

13. **Notice of Intent DEP#223-1180** 11-13 Ariana Circle Claro Corporation
14. **Notice of Intent DEP#223-1183** 125 Fortune Blvd Avecia
15. **Notice of Intent DEP# 223-1182** 154-160 East Main St. Imperial Hyuandi
16. **Notice of intent DEP#223** 26 Beaver St Rte 85 Realty Corp
17. **Notice of Intent DEP#223** 21 Beaver St Rte 85 Realty Corp
18. **Notice of Intent DEP#223-** 3 Gordon Drive Thiago Silva
19. **Hearing-Notice of Intent-DEP#223-1174** 429 East Main St. Joseph Shay

Signature _____ Dated _____

Not all items listed may be discussed and other items not listed may also be brought up for discussion to the extent permitted by law.

Town of Milford Meeting Notice

RECEIVED
MILFORD TOWN CLERK
2020 NOV 12 AM 8:16

Board or Commission: Conservation Commission

Date and Time of Meeting: Wednesday November 18, at 7.00 P. M

Place of Meeting---Pursuant to Governor Baker's March 12, 2020 order suspending certain provisions of the Open Meeting Law, G.L. c. 30A sec. 18, and the Governor's March 15, 2020 Order concerning imposition of strict limitations on the number of people that may gather in one place, this meeting is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order.

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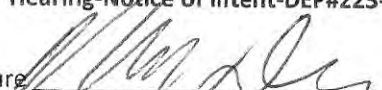
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19. **Hearing-Notice of Intent-DEP#223-1174** 429 East Main St. Joseph Shay

Signature



Dated

11-12-2020

Not all items listed may be discussed and other items not listed may also be brought up for discussion to the extent permitted by law.

October 21, 2020
MINUTES

Chairman Giampetro called the meeting of the Milford Conservation Commission to order via remote participation at 7:00 P.M. Members in attendance via remote participation were Paul Braza, Domingos Roda, Edward Ross, Noel Bontempo and Derek Atherton, Joseph Zacchilli and Town Engineer Michael Dean.

7:02 P.M. - Motion by Zacchilli/ Braza to approve minutes. Un.7

7:03 P.M.- Town Meeting Warrant Article

Chairman Giampetro presented town article that will presented at town meeting. Member Bontempo will present on behalf of Conservation Commission.

7:06 P.M.-Extension of Order of Conditions DEP#223-1059 Milford Pond Town of Milford

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Braza to extend the order of conditions for 3 years. Un. 7

7:07 P.M.- Request for Certificate of Compliance DEP# 223-818 49 Sumner Street Benjamin Moore

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Atherton to issue a Certificate of Compliance. Un.7

7:10 P.M.- Request for Certificate of Compliance DEP#223-1122 8 Popia Court Snowflake LLC

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Roda to issue a partial Certificate of Compliance. Un. 6

Member Braza abstains

7:10 P.M.- Request for Certificate of Compliance DEP#223-1122 8 Popia Court Snowflake LLC

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Roda to issue a partial Certificate of Compliance. Un. 6

**October 21, 2020
Minutes, Page 2**

Member Braza abstains

7:13 P.M.- Request for Certificate of Compliance DEP#223-1122 6 Popia Court
Snowflake LLC

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Ross to issue a partial Certificate of Compliance. Un. 6

Member Braza abstains

7:14 P.M.- Request for Certificate of Compliance DEP#223-1122 2 Popia Court
Snowflake LLC

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Ross to issue a partial Certificate of Compliance. Un. 6

Member Braza abstains

7:15 P.M.- Request for Certificate of Compliance DEP#223-1144 14 Gordon Drive D&F
Afonso Builders

Chairman Giampetro read town engineers memo

Motion by Zacchilli/Ross to issue a Certificate of Compliance. Un. 6

Member Braza abstains

7:17 P.M.- Request for Certificate of Compliance DEP#223-1147 17 Gordon Drive D&F
Afonso Builders

Chairman Giampetro read town engineers memo

Motion by Zacchilli/Ross to issue a Certificate of Compliance. Un. 6

Member Braza abstains

7:19 P.M.- Request for Certificate of Compliance DEP#223-1175 21 Gordon Drive D&F
Afonso Builders

Present at hearing was Elizabeth Mainini from Guerriere & Hanlon.

October 21, 2020
Minutes, Page 3

Ms. Mainini stated located the concrete bounds will add them to as built and submit to commission.

Chairman Giampetro read town engineers memo

Motion by Zacchilli/Ross to issue a Certificate of Compliance when updated as built has been submitted. Un. 6

Member Braza abstains

7:23 P.M. – Notice of Intent DEP#223-1179 14 Prospect St. Milford Regional Medical Center

Present at hearing was Elizabeth Mainini from Guerriere & Hanlon.

Ms. Mainini stated proposing a 100 x 54 maintenance garage, previous order expired need to file a new notice.

Motion by Zacchilli/ Ross to close the public hearing and issue an order of conditions. Un.7

Chairman Giampetro read town engineers memo

7:27 P.M.- Request for Determination of Applicability 11 Roland Way Richard Diatalevi

Present at hearing Richard Diatalevi and Attorney Brian Murray

Motion by Zacchilli/ Atherton to close the public hearing and issue a negative determination when updated plans are submitted with placement of fence. Un.7

7:33 P.M.- Request for Determination of Applicability 14 Clarridge Circle Stacia Lathrop

Present at hearing was Stacia Lathrop

Chairman Giampetro read town engineers memo. Town Engineer recommends erosion control.

Motion by Zacchilli/ Ross to close the public hearing and issue a negative determination with condition erosion control needs to be installed prior to work being started. Un. 7

7:38 P.M.- Request for Determination of Applicability- Beaver Street Lots25,23C, 23B Rte. 85 Realty Corporation

October 21, 2020
Minutes, Page 4

Present at hearing were Scott Goddard from Goddard Consulting, John Nanart from Rt 85 Realty ANF Town Counsel Charles Boddy.

Mr. Goddard explained the DEP interpretation of a riverfront.

Town Counsel explained history of Beaver Street Lots.

Motion by Roda /Atherton to close public hearing and issue a negative determination.
Un. 7

7:52 P.M.- Notice of Intent DEP#223-1178 Birch St. Lobisser Building Corp.

Present at hearing was Mark Allen from Allen Associates

Mr. Allen stated has addressed all of town engineers concerns.

Chairman Giampetro read town engineers memo

Motion by Zacchilli/ Ross to close the public hearing and issue and order of conditions.
Un. 6

Member Braza abstains.

7:57 P.M.- Notice of Intent DEP# 11-13 Ariana Circle Claro Corporation

Present at hearing was Kristen Labrie from Andrew Surveying and applicant David Claro

Ms. Labrie states notice of intent is for just the dwelling.

Ms. Labrie gave overview of plan.

Also present at hearing was abutters Bruce & Joann Marcotte. They were concerned with elevation and water runoff.

Also present at hearing was a butter Tony Ferreira of 7 Carven Rd.

Chairman Giampetro recommends to continue.

Motion by Roda/ Ross to issue order of conditions.

Members Bontempo, Chairman Giampetro, and Zacchilli opposed.

Member Braza abstains.

**October 21, 2020
Minutes, Page 5**

Motion did not pass.

Motion by Roda/ Zacchilli to continue hearing to next month. Un. 6

Member Braza abstains.

8:38 P.M.- Notice of Intent DEP#223 4-6 Ariana Circle Claro Corporation

Present at hearing was Kristen Labrie from Andrew Surveying and applicant David Claro

Motion by Zacchilli/ Roda to close public hearing and issue an order of conditions. Un. 5

Chairman Giampetro is opposed.

Member Braza abstains.

8:44 P.M.- Request for Determination of Applicability – Railroad Keolis Commuter Service

Present at hearing was Clair Coutu from Keolis Commuter Service, Matthew Donovan from FDC Engineers and Holly Palmgrim .

Mr. Donovan gave overview of 5-year plan to manage vegetation.

Chairman Giampetro read town engineers memo.

Motion by Zacchilli/ Roda to close public hearing and issue a negative determination. Un. 7

9:00 P.M.- Motion by Ross/ Roda to adjourn.

Minutes Recorded by:
Loriann Braza

MILFORD CONSERVATION COMMISSION

Agenda Item # 1



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Mr. Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: **Partial Certificate – Whitewood Preserve
13 Kate Lane (Unit 16)**

The Owner / Applicant, Snowflake, LLC, Kevin Lobisser, 1 Charlesview Road, Hopedale, MA 01747, has filed a request for a **Partial** Certificate of Compliance for 1 of the 29- units (Condos) within the **Whitewood Preserve** Planned Residential Community (PRD), DEP File # 223-1122.

The areas adjacent to the unit are not 100 % loamed and/or seeded, however there are several more units in the immediate area that still need to be constructed and it would be highly unlikely that these areas would not be loamed and seeded once final grading is completed, in addition, the request is for a Partial COC.

I recommend the issuance of a Partial Certificate of Compliance for # 13 Kate Lane (Unit 16).



ALLEN ENGINEERING & ASSOCIATES, INC.

CIVIL ENGINEERS * SURVEYORS * LAND USE PLANNERS

LETTER OF TRANSMITTAL

To: Milford Conservation Commission **Date:** November 2, 2020
c/o Michael Dean, PE

From: Brian Hassett, E.I.T. **RE:** #4 Megan Court, #13 Kate Lane
Whitewood Preserve

Dear Commissioners:

On behalf of the owner, Snowflake, LLC Allen Engineering & Associates, Inc. (AEA) hereby submits a request for a "Partial" Certificate of Compliance for #4 Megan Court and #13 Kate Lane (Units 19 and 16, respectively).

CERTIFICATION:

AEA certifies that the work done on-site is in substantial compliance with the Amended Order of Conditions and the associated approved design plans. The entire condominium development will ultimately apply for an overall Certificate of Compliance when all construction activities are complete.

Enclosed are the following items for your review:

1. Partial Certificate of Compliance for #4 Megan Court (prepared on WPA Form 8A).
2. (x2) #4 Megan Court As-Built Plot Plan with grading (1 Sheet @ 11x17).
3. Partial Certificate of Compliance for #13 Kate Lane (prepared on WPA Form 8A).
4. (x2) #13 Kate Lane As-Built Plot Plan with grading (1 Sheet @ 11x17).

Please contact me with any questions or concerns at (508) 381-3212 x108 or Brian@Allen-EA.com.

Sincerely,

ALLEN ENGINEERING & ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Brian Hassett', is written over the company name.

Brian Hassett, E.I.T.

LEGEND

- 386 AS-BUILT CONTOUR
- B BUFFER ZONE
- TREE LINE
- BORDERING VEGETATED WETLANDS

PREPARED FOR:

Lobisser Building Corp.
1 Charlesview Road
Suite 1
Hopedale, MA 01747

TITLE:

"Conservation As-Built Plan"
For
#13 Kate Lane (Unit 16)
Whitewood Preserve
Off
Whitewood Road
In
Milford, MA

SEAL:



PREPARED BY:



ALLEN ENGINEERING & ASSOCIATES, INC.

Civil Engineers • Surveyors
Land Development Consultants

One Charlesview Road, Suite 2
Hopedale, Ma 01747
(508) 381-3212 Phone
www.allen-ea.com

SCALE:



DATE:

October 28, 2020

REVISIONS	
#	DESCRIPTION

JOB NO: 00131
SHEET: 1 of 1

CONSERVATION PINS

UNIT 15

House #13
(Unit 16)

KATE LANE

HOME UNDER CONSTRUCTION
TOC=388.85

UNIT 17

UNIT 18

- NOTES:
1. DEP FILE #223-1122
 2. AS-BUILT SURVEY PERFORMED BY ALLEN ENGINEERING & ASSOCIATES IN OCTOBER 2020
 3. THIS PLAN IS FOR A REQUEST FOR PARTIAL CERTIFICATE OF COMPLIANCE ONLY.

Agenda Item # 2



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Mr. Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: **Partial Certificate – Whitewood Preserve
4 Megan Court (Unit 19)**

The Owner / Applicant, Snowflake, LLC, Kevin Lobisser, 1 Charlesview Road, Hopedale, MA 01747, has filed a request for a **Partial** Certificate of Compliance for 1 of the 29- units (Condos) within the **Whitewood Preserve** Planned Residential Community (PRD), DEP File # 223-1122.

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I recommend the issuance of a Partial Certificate of Compliance for # 4 Megan Court (Unit 19).



ALLEN ENGINEERING & ASSOCIATES, INC.

CIVIL ENGINEERS * SURVEYORS * LAND USE PLANNERS

LETTER OF TRANSMITTAL

To: Milford Conservation Commission **Date:** November 2, 2020
c/o Michael Dean, PE

From: Brian Hassett, E.I.T. **RE:** #4 Megan Court, #13 Kate Lane
Whitewood Preserve

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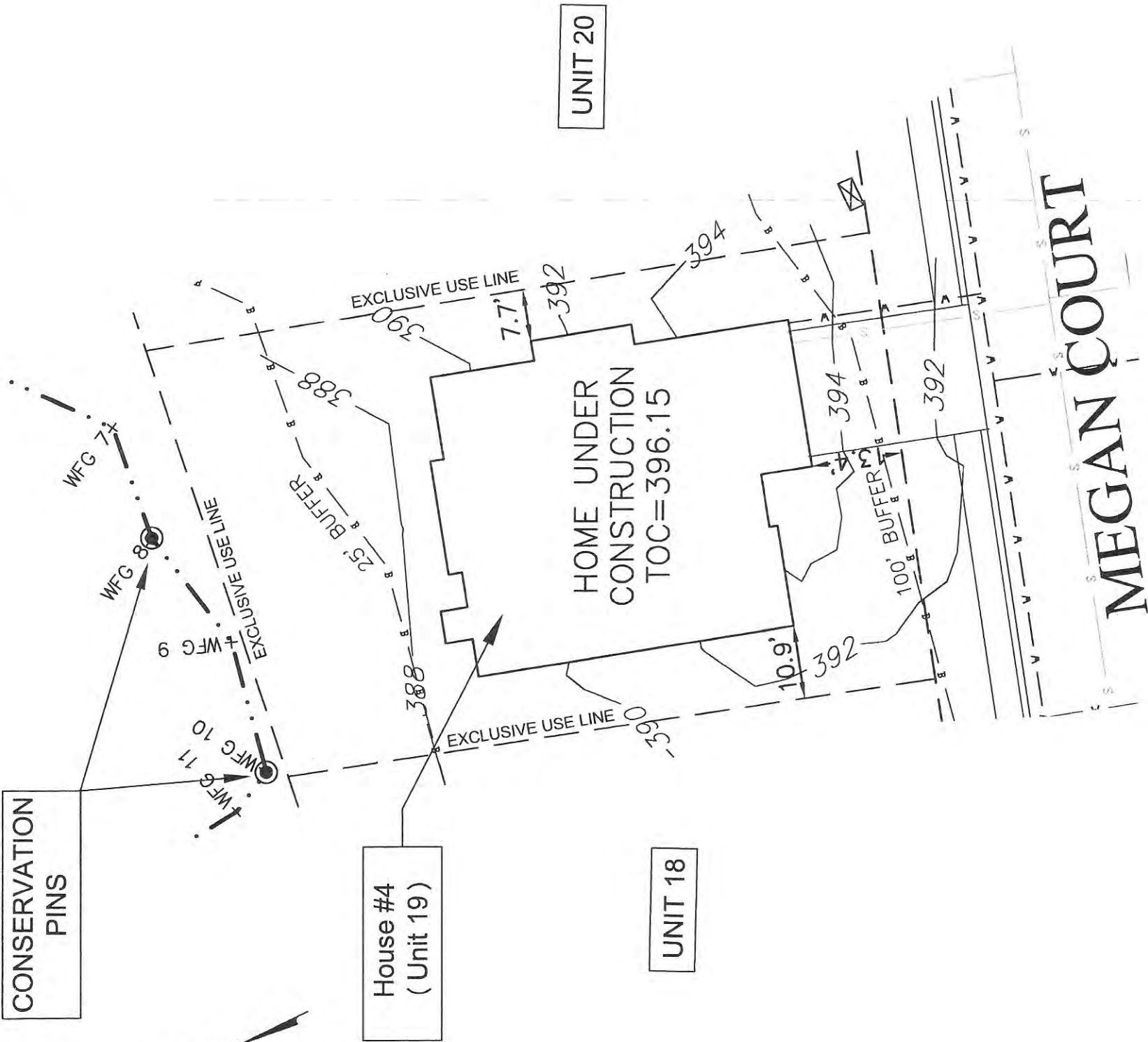
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Brian Hassett, E.I.T.

CONSERVATION
PINS



House #4
(Unit 19)

UNIT 20

UNIT 18

LEGEND

- 386 — AS-BUILT CONTOUR
- B — BUFFER ZONE
- ~ TREE LINE
- - - - - BORDERING VEGETATED WETLANDS

PREPARED FOR:

Lobisser Building Corp.
1 Charlesview Road
Suite 1
Hopedale, MA 01747

TITLE:

"Conservation As-Built Plan"
For
#4 Megan Court (Unit 19)
Whitewood Preserve
Off
Whitewood Road
In
Milford, MA

SEAL:



PREPARED BY:



**ALLEN ENGINEERING
& ASSOCIATES, INC.**
Civil Engineers • Surveyors
Land Development Consultants
One Charlesview Road, Suite 2
Hopedale, Ma 01747
(508) 381-3212 Phone
www.allen-ea.com

SCALE:



DATE:

October 28, 2020

#	DATE	REVISIONS	DESCRIPTION	INIT

JOB NO: 00131
SHEET: 1 of 1

- NOTES:
1. DEP FILE #223-1122
 2. AS-BUILT SURVEY PERFORMED BY ALLEN ENGINEERING & ASSOCIATES IN OCTOBER 2020
 3. THIS PLAN IS FOR A REQUEST FOR PARTIAL CERTIFICATE OF COMPLIANCE ONLY.

Agenda Item # 3



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 17, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: Request for Certificate of Compliance – 1 National Street (Amazon)
DEP File # 222-1167

Dear Mr. Giampietro:

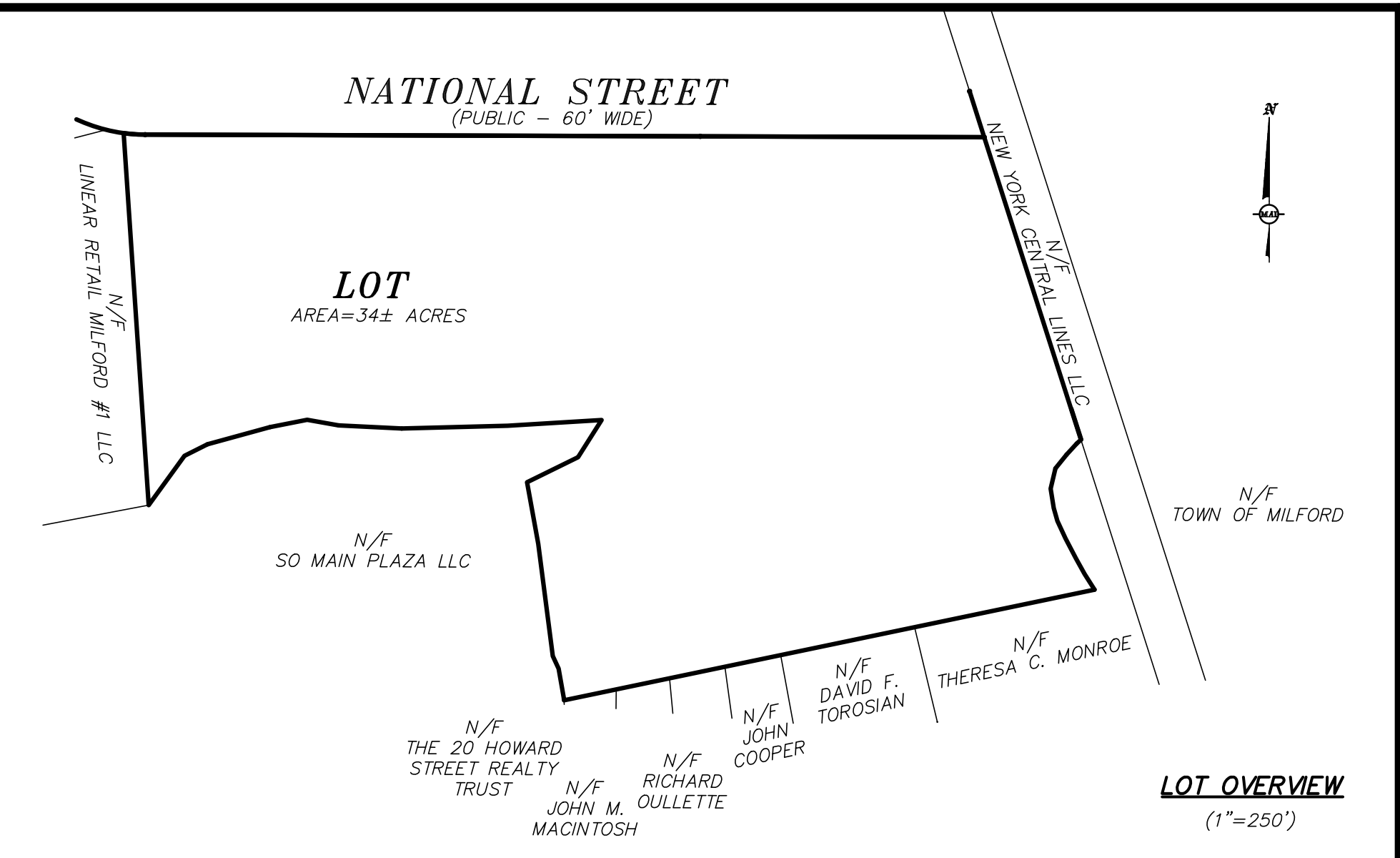
I have reviewed the Request for a Certificate of Compliance 1 National Street, the Applicant is Milford National LLC, Gregory Schain, 1 National Street, Milford, MA 01757.

Following a site inspection, it was discovered a couple of the drainage structures have been paved over. These structures are associated with the drainage located in the eastern portion of the site, in the main truck entrance off of the end of National Street. I recommend the two or three structures have rims and covers installed and that they are brought to existing grade.

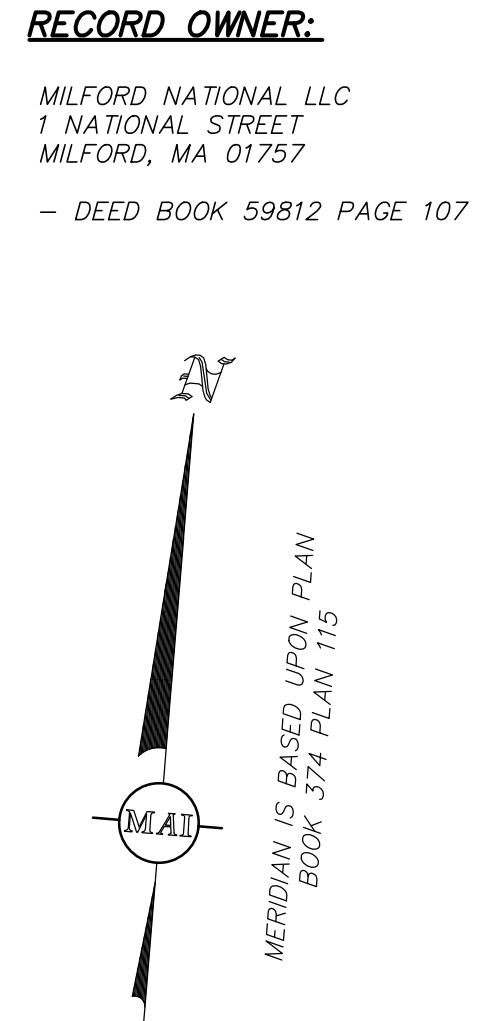
I recommend the issuance of the Certificate of Compliance (COC) and to hold the COC until a final inspection is performed on the above-mentioned drainage structures and the as-built plan is updated.

Sincerely,

Michael Dean, P.E.
Town Engineer



- NOTES:**
- THE TOPOGRAPHY, SITE DETAIL & SURFACE IMPROVEMENTS DEPICTED HEREON WERE OBTAINED FROM AN INSTRUMENT SURVEY CONDUCTED ON THE GROUND BY MERIDIAN ASSOCIATES, INC. (MAI) BETWEEN OCTOBER 9 & 21, 2020.
 - THE SUBJECT PROPERTY IS LOCATED IN ZONE HIGHWAY INDUSTRIAL B.
 - THE SUBJECT PROPERTY IS DEPICTED AS LOT 9 ON TOWN OF MILFORD ON ASSESSOR'S MAP 58.
 - THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED UPON A PARTIAL FIELD SURVEY AND COMPILATION OF PLANS OF RECORD. MERIDIAN ASSOCIATES, INC. DOES NOT WARRANT NOR GUARANTEE THE LOCATION OF ALL UTILITIES DEPICTED OR NOT DEPICTED. THE CONTRACTOR, PRIOR TO COMMENCEMENT OF CONSTRUCTION, SHALL VERIFY THE LOCATION OF ALL UTILITIES AND CONTACT DIG SAFE AT 811.
 - THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
 - THE ELEVATIONS DEPICTED HEREON WERE BASED ON PLAN ENTITLED "1 NATIONAL STREET SITE IMPROVEMENTS BY PLANNER DESIGNERS ARCHITECTS, INC. (PDA), SURVEY DONE BY GUERRIERE AND HALNON IN 2014".



- LEGEND:**
- | | | | | | |
|------|---------------------------|--------|-------------------------------|----|----------------------------------|
| A.G. | ABOVE GROUND | TW | TOP OF WATER | -E | COMPILED ELECTRIC LINE |
| B.G. | BELOW GROUND | THRESH | THRESHOLD | -L | LIGHT POLE |
| BB | BITUMINOUS BERM | TYP | TYPICAL | -U | UTILITY POLE |
| BIT | BITUMINOUS | VCP | VITRIFIED CLAY PIPE | -W | UTILITY POLE WITH LIGHT GUY WIRE |
| CC | CONCRETE CURB | 250 | 5 FOOT CONTOUR | -D | OBSERVED DRAIN LINE |
| CI | CAST IRON | 423.5 | SPOT ELEVATION | -D | COMPILED DRAIN LINE |
| CL | CHAINLINK FENCE | | CONCRETE CURB | -D | DRAIN MANHOLE |
| CM | CORRUGATED METAL PIPE | | TREELINE | -C | CATCH BASIN |
| CP | CONCRETE PAD | | VEGETATION LINE | -C | DOUBLE CATCH BASIN |
| DI | DUCTILE IRON | | GUARDRAIL | -W | COMPILED WATER LINE |
| DS | DOWNSPOUT | | CHAINLINK FENCE | -W | WATER GATE |
| DWP | DETECTABLE WARNING PANELS | | HANDRAIL | -S | HYDRANT |
| EOP | EDGE OF PAVEMENT | | RIPRAP | -S | OBSERVED SEWER LINE |
| FM | FORCE MAIN | | CONCRETE | -S | COMPILED SEWER LINE |
| GC | GRANITE CURB | | LANDSCAPE | -C | SEWER MANHOLE |
| HOPE | HIGH DENSITY POLYETHYLENE | | LANDSCAPE SIGN | -C | CLEANOUT |
| INV | INVERT | | BOLLARD | -O | OBSERVATION PORT |
| LS | LANDSCAPE OVERHANG | | DECIDUOUS TREE | -O | DETECTABLE WARNING PANELS |
| OH | OVERHANG | | BOULDER | | |
| PL | PLASTIC OVERHANG | | BUILDING OVERHANG | | |
| PE | PEDESTRIAN ENTRANCE | | UNDERGROUND GAS PAINT MARKING | | |
| PVC | POLYVINYL CHLORIDE | | UGG | | |
| PCP | REINFORCED CONCRETE PIPE | | OHV | | |
| S.F. | SQUARE FEET | | OHV | | |
| TH | TOP OF HOOD | | OHV | | |

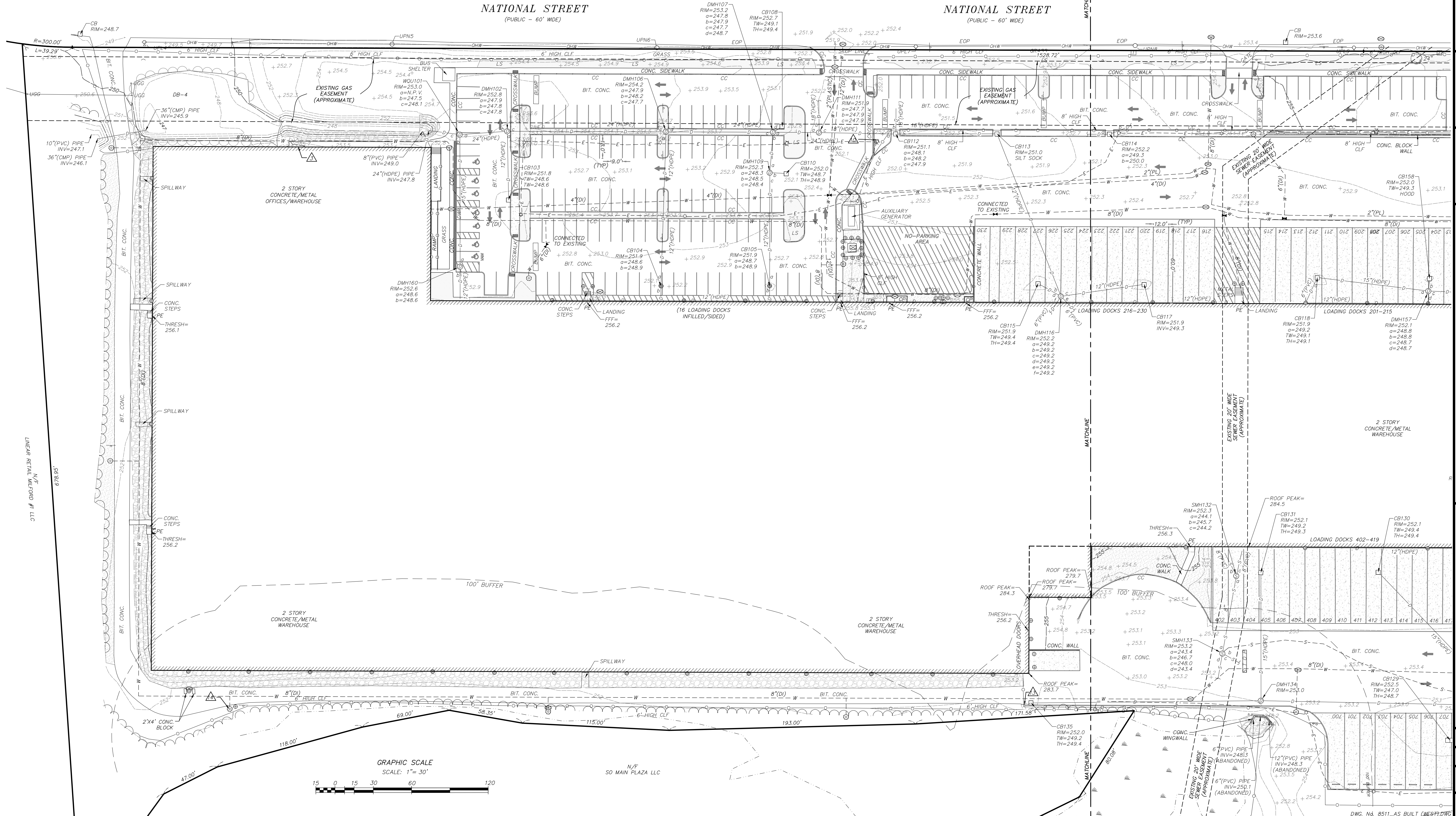
ALL UNDERGROUND UTILITY DATA REPRESENTS RECORD INFORMATION RECOVERED THROUGH RESEARCH WITHOUT SURFACE DEMARCATION NOR SUBSURFACE VERIFICATION.

TEMPORARY BENCHMARK CHART:

T.B.M.#	DESCRIPTION	ELEVATION
△	SQUARE CUT LEFT OUTSIDE CORNER LOWEST CONCRETE STEP	253.76
△	SQUARE CUT ON LIGHT POLE CONC. BASE - 2.5' A.G.	254.77
△	SQUARE CUT LEFT OUTSIDE CORNER LOWEST CONCRETE STEP	257.87
△	X-CUT ON FRONT HYDRANT BOLT - 2.75' A.G.	254.90
△	SQUARE CUT ON CONCRETE CURB	252.25
△	X-CUT ON FRONT HYDRANT BOLT - 1.7' A.G.	252.65

(SEE NOTE 6)

PLEASE REFER TO SHEET 2 OF 2 FOR ENGINEER'S CERTIFICATION

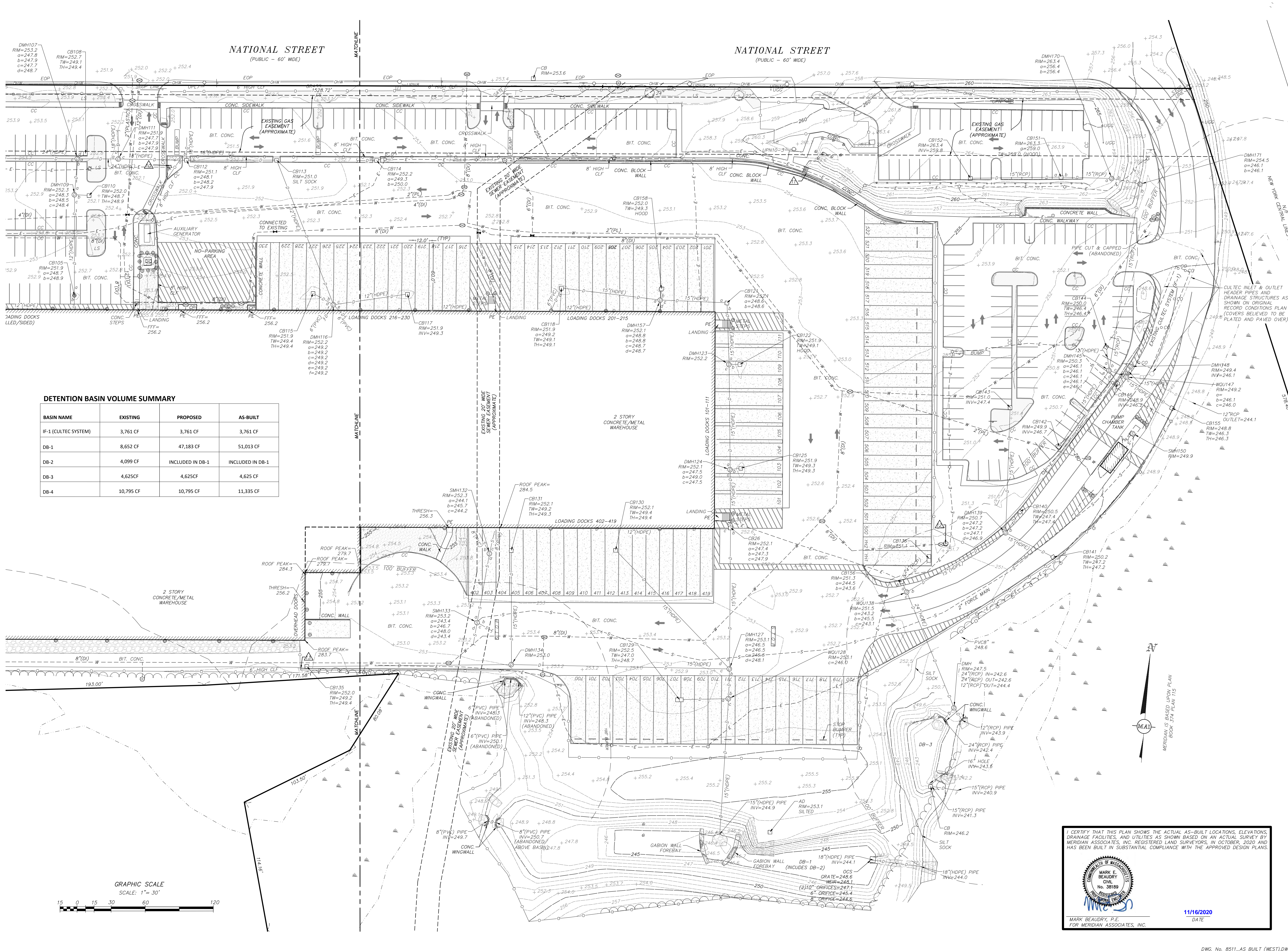


NO.	DATE	REVISIONS	DESCRIPTION
1	11/16/20		CONSERVATION SITE WALK COMMENTS

1 NATIONAL STREET
AS-BUILT PLAN OF LAND
MILFORD, MASSACHUSETTS
PREPARED FOR
DACION CORPORATION

MERIDIAN ASSOCIATES
69 MILK STREET, SUITE 208
MILFORD, MASSACHUSETTS 01851
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOCIATES.COM

DESIGNED BY: E. RICARDO
CHECKED BY: DG / MEB
DATE: (See Revisions)
NOV. 3, 2020
SCALE: 1"=30'
SHEET No.
1 of 2
PROJECT No.
8511

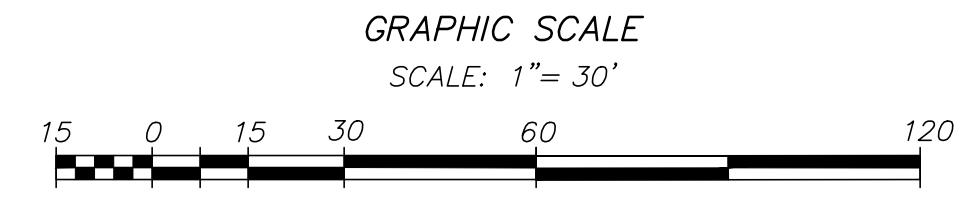


NATIONAL STREET
(PUBLIC - 60' WIDE)

NATIONAL STREET
(PUBLIC - 60' WIDE)

DETENTION BASIN VOLUME SUMMARY

BASIN NAME	EXISTING	PROPOSED	AS-BUILT
IF-1 (CULTEC SYSTEM)	3,761 CF	3,761 CF	3,761 CF
DB-1	8,652 CF	47,183 CF	51,013 CF
DB-2	4,099 CF	INCLUDED IN DB-1	INCLUDED IN DB-1
DB-3	4,625 CF	4,625 CF	4,625 CF
DB-4	10,795 CF	10,795 CF	11,335 CF



I CERTIFY THAT THIS PLAN SHOWS THE ACTUAL AS-BUILT LOCATIONS, ELEVATIONS, DRAINAGE FACILITIES, AND UTILITIES AS SHOWN BASED ON AN ACTUAL SURVEY BY MERIDIAN ASSOCIATES, INC. REGISTERED LAND SURVEYORS, IN OCTOBER, 2020 AND HAS BEEN BUILT IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DESIGN PLANS.

MARK E. BEAUDRY, P.E.
FOR MERIDIAN ASSOCIATES, INC.

11/16/2020
DATE

REVISIONS

NO.	DATE	DESCRIPTION
1	11/16/20	CONSERVATION SITE WALK COMMENTS

**1 NATIONAL STREET
AS-BUILT PLAN OF LAND
MILFORD, MASSACHUSETTS**

PREPARED FOR
DACON CORPORATION

DESIGNED BY: E. RICARDO
CHECKED BY: DC / MEB

DATE: (See Revisions)
NOV. 3, 2020

SCALE: 1" = 30'

SHEET No.
2 of 2

PROJECT No.
8511

DWG. No. 8511-AS BUILT (WEST).DWG

Agenda Item # 4



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 17, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: Request for Certificate of Compliance – Godfrey Brook Improvement Project - Congress Terrace and Main Street Culvert Replacement Project
DEP File # 222-1067

Dear Mr. Giampietro:

I have reviewed the Request for a Certificate of Compliance for the Godfrey Brook Improvement Project - Congress Terrace and Main Street Culvert Replacement Project, the Applicant is the Town of Milford.

This project is associated with the Hazard Mitigation Grant program (HMGP), grant funding from FEMA through MEMA. The project was constructed in 2015 and finalized in 2016 with inspections by MEMA and final sign off by FEMA.

The certificate of compliance will also clear title to privately owned properties that are along the Godfrey Brook and associated with this project. I recommend the issuance of a Certificate of Compliance.

Sincerely,

Michael Dean, P.E.
Town Engineer



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



November 4, 2020
15.0166148.30

Milford Conservation Commission
Town Hall
52 Main St.
Milford, MA 01757

RE: Request for Certificate of Compliance – Congress Terrace and Main Street Culvert Replacements Project, MassDEP File No. 223-1067

Dear Commission Members:

On behalf of the Town of Milford Highway Department, GZA GeoEnvironmental, Inc. (GZA) is providing this Request for a Certificate of Compliance (WPA Form 8A) for the Congress Terrace and Main Street Culvert Replacements Project Order of Conditions (MassDEP File No. 223-1067).

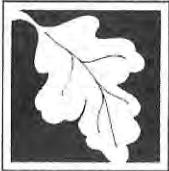
GZA's final inspection in the Spring of 2016 confirmed that work was completed in substantial compliance with the project drawings.

Very truly yours,
GZA GEOENVIRONMENTAL, INC.

Rosalie T. Starvish, P.E.
Project Manager

Thomas E. Jenkins, P.E.
Associate Principal

Attachment: WPA Form 8A – Request for Certificate of Compliance



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 8A – Request for Certificate of Compliance

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

Provided by DEP

A. Project Information

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



Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

1. This request is being made by:

Scott Crisafulli
Name

12 Front Street
Mailing Address

Milford MA 01757
City/Town State Zip Code

Phone Number

2. This request is in reference to work regulated by a final Order of Conditions issued to:

Town of Milford Highway Department
Applicant

1/16/2015 223-1067
Dated DEP File Number

3. The project site is located at:

Congress Terrace to W. Walnut St; Main St.
Street Address

see attached list
Assessors Map/Plat Number

Milford
City/Town

Parcel/Lot Number

4. The final Order of Conditions was recorded at the Registry of Deeds for:

see attached list
Property Owner (if different)

County 53419 Book 262 Page
Certificate (if registered land)

5. This request is for certification that (check one):

the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.

the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.



WPA Form 8A – Request for Certificate of Compliance
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. Project Information (cont.)

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?

Yes

If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

No

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>).

Congress Terrace/Main St. Culvert Replacement Project
 Parcel Title References for Order of Conditions

DEP # 223-1067

Owner of Record	Address	Parcel Number	Book	Page
Congress Terrace				
Ferrechia, Lisa	5 Congress Terrace	40-0-127	36850	148
Kellett, James Rachel	0 Congress Terrace	40-0-126	4092	184
Mullen, Joseph & Judith	3 Congress Terrace	40-0-125	5229	578
Fornaciari, Marc & Janice LE	10 Congress Terrace	40-0-67	43164	118
Slattery, Eleanor	27 Westbrook Street	40-0-53	18989	235
Carneiro, Ildio M	4 Congress Terrace	40-0-69	49488	276
Jones, Ronn S	25 Westbrook Street	40-0-52	14765	9
Ozerson, Harry H	29 Westbrook Street	40-0-54	5875	379
Winn, Phyllis J	28 Westbrook Street	40-0-45	46289	159
Oldfield, John S	37 West Walnut Street	40-0-39	10820	252
Pacheco, Susana M	2 Overlea Ave	40-0-46	23508	236
Dacruz, Joaquim G	1 A-B Overlea Ave	40-0-38A	7827	113
Sweeney, Margaret Rose A	29 West Walnut Street	40-0-38	17813	251
Main Street				
Parthasarathy, Navinchandar	335 Main Street	51-0-81	35592	342
Kilderry, Barbara A	8 Orrin Street	51-0-82	47066	56
Longo, Kathleen E	335 1/2 Main Street	51-0-79	17304	237
Longo, Robert E	5 Huntoon Slip	51-0-78	17706	206
Rua, Carmaria	344 Main St.	51-0-41	20036	13
Rafferty, Kimberly	340 Main Street	51-0-43	52457	177
Mann Marc W L Trustee	336 Main Street	52-0-269	13319	61

CONTRACT DRAWINGS

for the

- GODFREY BROOK IMPROVEMENT PROJECT - CONGRESS TERRACE/MAIN STREET CULVERT REPLACEMENTS

TOWN of MILFORD, MASSACHUSETTS

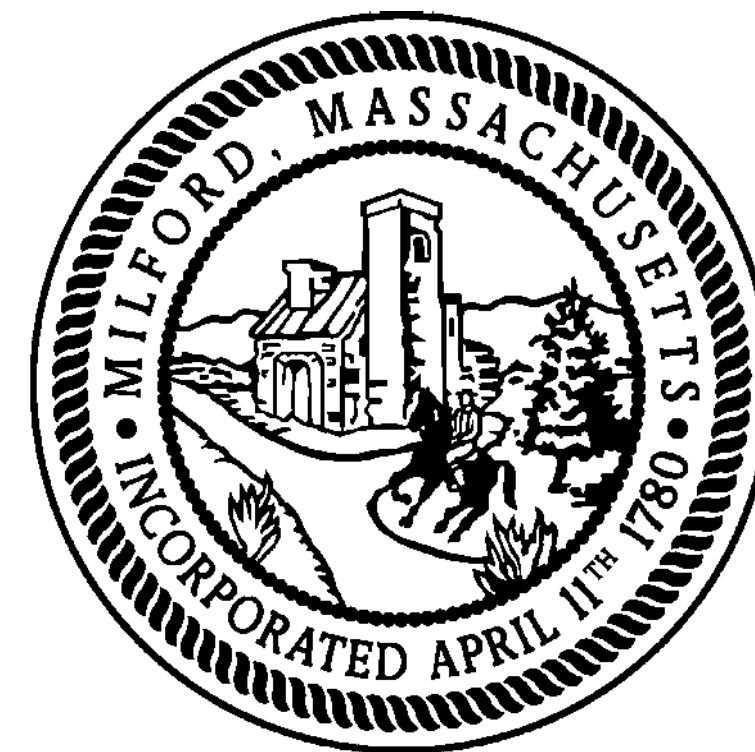
MILFORD HIGHWAY DEPARTMENT

and the

OFFICE of PLANNING and ENGINEERING

SCOTT J. CRISAFULLI

HIGHWAY SURVEYOR

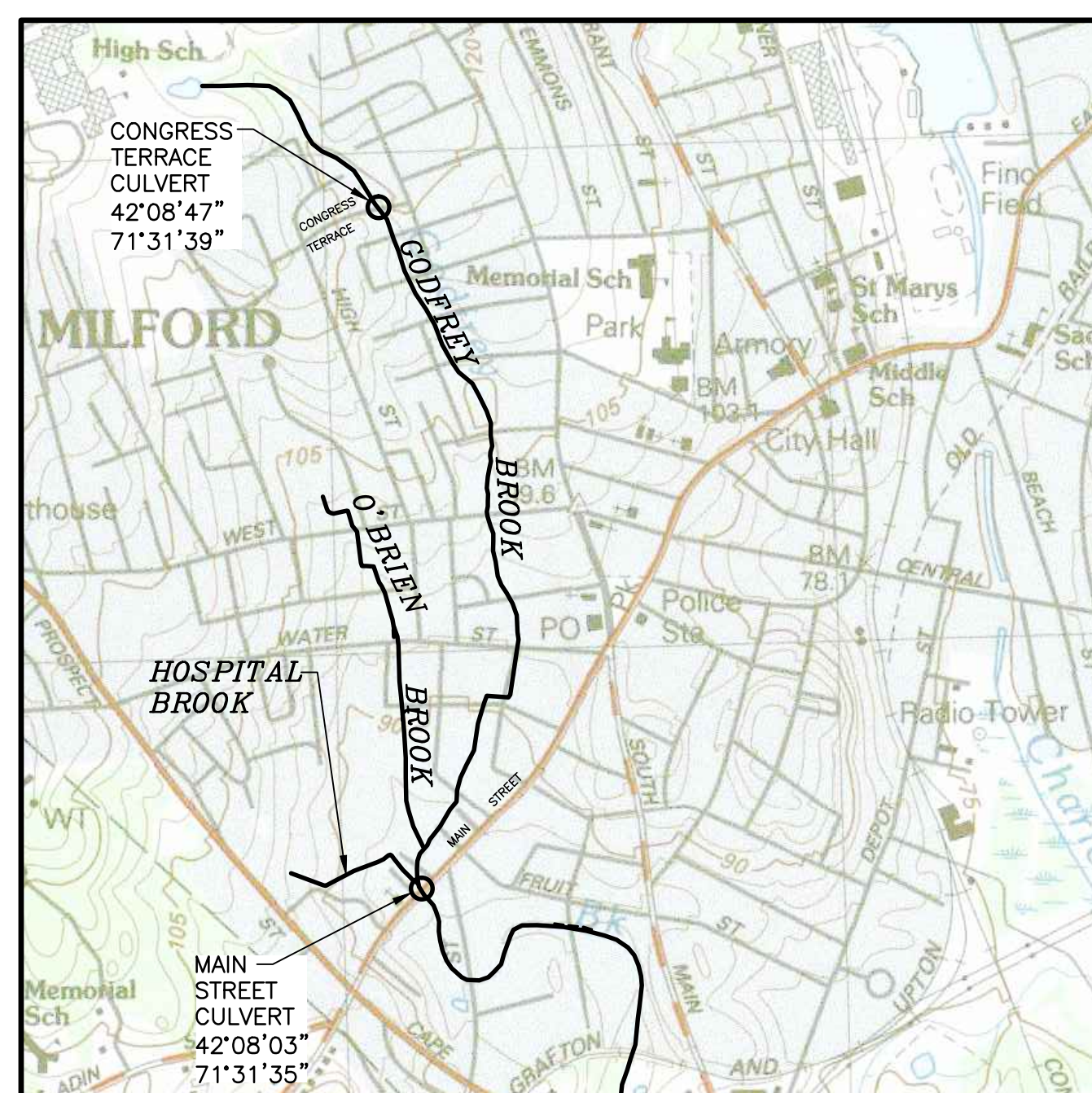


VONNIE M. REIS, P.E.

TOWN ENGINEER

INDEX TO PLAN SHEETS

SHEET NUMBER	TITLE
	Cover Sheet
1. - - -	Existing Site Plan - Congress Terrace/Westbrook St./West Walnut St.
2. - - -	Proposed Site Plan - Congress Terrace to Westbrook Street & Godfrey Brook Layout Plan - Congress Terrace to West Walnut Street
3. - - -	Proposed Godfrey Brook Profile - Congress Terrace to Westbrook Street
4. - - -	Proposed Roadway Plans - Congress Terrace & Westbrook Street
5. - - -	Roadway Profiles - Congress Terrace & Westbrook Street
6. - - -	Proposed Sewer Interceptor - Westbrook Street to West Walnut Street
7. - - -	Culvert Inlet Details - Congress Terrace & Westbrook Street
8. - - -	Culvert Outlet Details - Congress Terrace & Westbrook Street
9. - - -	Existing Site Plan - Main Street
10. - - -	Proposed Site Plan - Main Street
11. - - -	Proposed Godfrey Brook & Main Street Profiles and Main Street Culvert Layout Plan
12. - - -	Culvert Inlet Details - Main Street
13. - - -	Culvert Outlet Details - Main Street
14. - - -	Traffic Management Plan
15. - - -	Channel Details
16. - - -	Roadway Details
17. - - -	Sediment & Erosion Control Plan
18. - - -	Sediment & Erosion Control Details



LOCUS PLAN
MILFORD, MA
U.S.G.S. Quadrangle
1" = 1000'

FEBRUARY 10, 2015

PROJECT FUNDING ASSISTANCE PROVIDED BY:

HAZARD MITIGATION GRANT PROGRAM (HMGP)

"A Federal, State, and Local Partnership through the Federal Emergency Management Agency (FEMA)"

HMGP GRANT NUMBERS 4051-42; 4028-22

Commonwealth of Massachusetts
CHARLIE BAKER, GOVERNOR

Massachusetts Emergency Management Agency
KURT N. SCHWARTZ, DIRECTOR

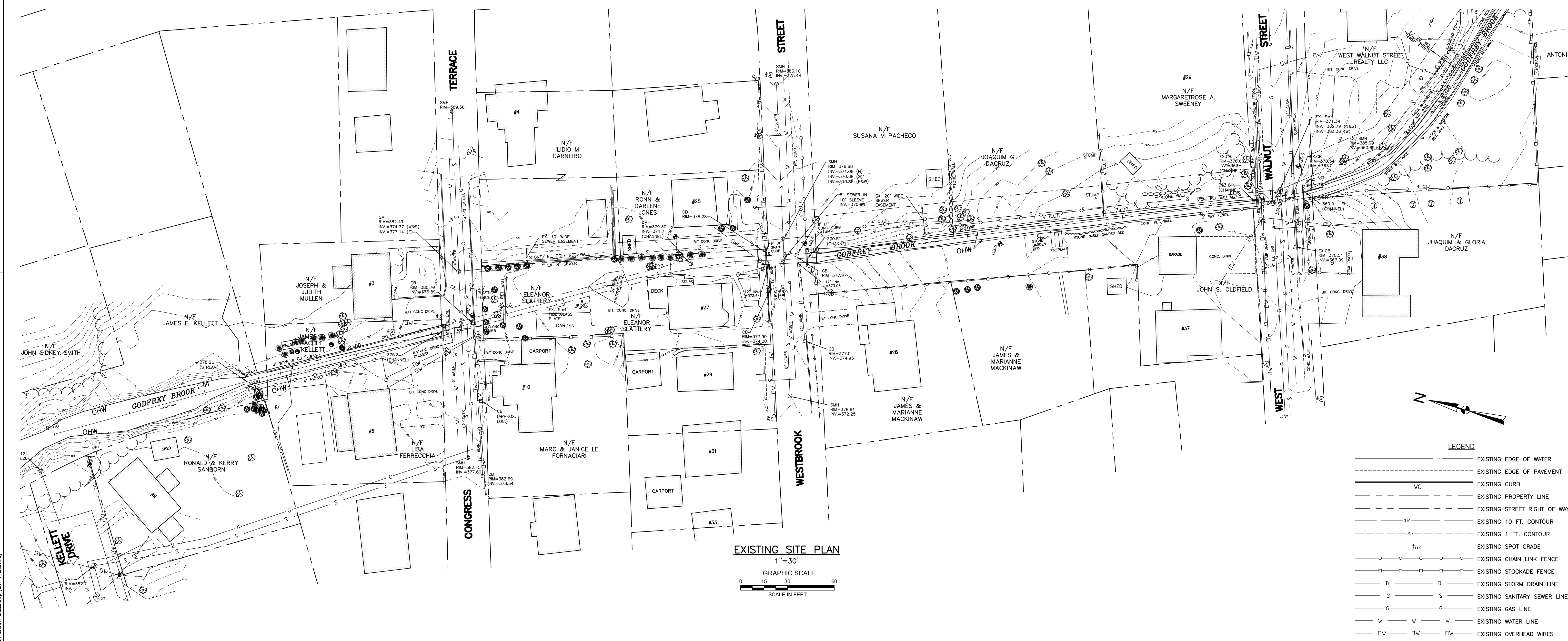
Department of Conservation and Recreation
JOHN P. MURRAY, COMMISSIONER



PREPARED BY

GZA GeoEnvironmental, Inc.
Engineers and Scientists
ONE FINANCIAL PLAZA
1350 Main Street, Suite 1400
Springfield, MA 01103
413-726-2100

2014 - GZA GeoEnvironmental, Inc. - 0.168199.15.01016148.20 Godfrey Brook Restoration Project - Phase 1A, 15.01016148.20 CAD/rev/GODFREY-COVERS-01.DWG - BASKZ.dwg [SHEET 1 OF 1]



EXISTING SITE PLAN
 1" = 30'
 GRAPHIC SCALE
 SCALE IN FEET

LEGEND

	EXISTING EDGE OF WATER
	EXISTING EDGE OF PAVEMENT
	EXISTING CURB
	EXISTING PROPERTY LINE
	EXISTING STREET RIGHT OF WAY
	EXISTING 10 FT. CONTOUR
	EXISTING 1 FT. CONTOUR
	EXISTING SPOT GRADE
	EXISTING CHAIN LINK FENCE
	EXISTING STOCKADE FENCE
	EXISTING STORM DRAIN LINE
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING OVERHEAD WIRES
	EXISTING CATCH BASIN
	EXISTING DRAIN MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING UTILITY POLE
	EXISTING HYDRANT
	EXISTING WATER VALVE
	EXISTING GAS VALVE
	EXISTING TREES
	BORING LOCATION

CONGRESS TERRACE/WESTBROOK STREET UTILITY COORDINATION NOTES

WATER MAIN: THE FOLLOWING SEQUENCE OF ACTIVITIES SHALL BE COORDINATED BY THE CONTRACTOR WITH THE MILFORD WATER COMPANY. ALL EXCAVATION, BACKFILL, DEWATERING, TRAFFIC CONTROL, AND ANCILLARY WORK SHALL BE PERFORMED BY CONTRACTOR. AT CONGRESS TERRACE THE PIPE MAY BE INCREASED TO 8" AND WILL GO OVER THE CULVERT. AT WESTBROOK STREET THE WATER LINE WILL GO UNDER THE CULVERT.

1. THE MILFORD WATER COMPANY WILL CUT AND CAP THE EXISTING WATER MAIN ON EACH SIDE OF THE CULVERT CROSSING.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING WATER MAIN BETWEEN THE TWO CUTS.
3. THE MILFORD WATER COMPANY WILL FURNISH SECTIONS OF D.I. WATER MAIN AND GATE VALVES.
4. THE CONTRACTOR SHALL INSTALL THE D.I. WATER MAIN AND GATE VALVES CROSSING THE NEW CULVERT FOR FUTURE USE BY THE WATER COMPANY.

GAS MAIN: THE FOLLOWING SEQUENCE OF ACTIVITIES SHALL BE COORDINATED BY THE CONTRACTOR WITH NSTAR GAS COMPANY. ALL EXCAVATION, BACKFILL, DEWATERING, TRAFFIC CONTROL, AND ANCILLARY WORK SHALL BE PERFORMED BY CONTRACTOR. THERE IS NO GAS MAIN IN WESTBROOK STREET. IN CONGRESS TERRACE, NSTAR HAS PROPOSED TO RELOCATE THE GAS MAIN OVER THE NEWLY INSTALLED CULVERT UPSTREAM OF THE CURRENT GAS MAIN ALIGNMENT & RECONNECT PRIOR TO SHUTTING DOWN THE EXISTING LINE. ALTERNATIVELY, THE CONTRACTOR MAY TEMPORARILY SUPPORT & PROTECT THE EXISTING GAS MAIN IN PLACE.

1. UNDER THE RELOCATION OPTION, CONTRACTOR SHALL PHASE CULVERT INSTALLATION WITH NSTAR RELOCATING THE GAS MAIN OVER THE PORTION OF THE CULVERT PRIOR TO COMPLETING THE CULVERT INSTALLATION.
2. UNDER THE TEMPORARY SUPPORT OPTION, CONTRACTOR SHALL PROVIDE A TEMPORARY SUPPORT & PROTECTION PLAN & SCHEDULE TO NSTAR FOR APPROVAL. EXPOSED GAS LINE SHALL BE PROTECTED WITH STEEL PLATES AT ALL TIMES.

CONGRESS TERRACE/WESTBROOK STREET GENERAL NOTES

1. BASE SURVEY FOR THIS PROJECT WAS PROVIDED BY GUERRIERE AND HALNOR, INC., MILFORD, MASSACHUSETTS, DATED 4/29/2010. HORIZONTAL DATUM IS MASS. COORD. NAD-83. VERTICAL DATUM IS NAVD 88. COMPLETE TOPOGRAPHICAL PLANS FROM THIS SURVEY WORK CAN BE OBTAINED FROM THE TOWN OF MILFORD. FIELD UPDATED BY GZA 4/20/14. WESTBROOK STREET WAS RECONSTRUCTED IN THE VICINITY OF THE CULVERT AFTER THIS SURVEY.
2. THE ACCURACY AND COMPLETENESS OF UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UTILITIES THAT MAY BE AFFECTED BY THE WORK OF THIS PROJECT. ALL DRAIN AND SANITARY SEWER STRUCTURES OWNED BY THE TOWN OF MILFORD SHALL BE ADJUSTED TO NEW LINE AND GRADE BY THE CONTRACTOR, AS DIRECTED BY THE PLANS OR BY THE ENGINEER. DE-ENERGIZING OVERHEAD WIRES IS NOT POSSIBLE AT WESTBROOK STREET NOR CONGRESS TERRACE. OSHA DOES NOT ALLOW CRANES TO OPERATE UNDER ENERGIZED OVERHEAD WIRES. POLES WILL BE RELOCATED BY THE APPLICABLE UTILITY COMPANY. ALTERATIONS TO UTILITIES NOT OWNED BY THE TOWN OF MILFORD SHALL BE MADE BY THE APPLICABLE UTILITY OWNERS, AS COORDINATED BY THE CONTRACTOR, AS DESCRIBED IN "UTILITY COORDINATION NOTES".
3. ALL MATERIALS AND CONSTRUCTION METHODS AND DETAILS FOR THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", MASSACHUSETTS HIGHWAY DEPARTMENT (MHD), AS AMENDED, REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
4. THE CONTRACTOR MAY USE A CERTAIN PORTION OF THE ILIDIO M. CARNEIRO PROPERTY AT 4 CONGRESS TERRACE AS A STAGING AREA. AT THE END OF THIS PROJECT, THE CONTRACTOR SHALL REPLACE THE EXISTING RETAINING WALL WITH A NEW CONCRETE WALL AND RESTORE DISTURBED LAWN USING SOD. ANY OTHER STAGING AREAS SHALL BE PROCURED BY THE CONTRACTOR AT THEIR OWN EXPENSE. ANY DAMAGE TO PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PROPOSED CATCH BASIN AND DROP INLET FRAMES AND COVERS SHALL BE AS LEBARON FOUNDRY, INC. MODEL NO. LF-248-2, OR EQUIVALENT. ALL PROP. CATCH BASINS SHALL BE AS SHOWN IN MHD (SD) 201.4.0 EXCEPT THAT THE SUMP SHALL BE 4'-0" DEEP. ALL CATCH BASINS SHALL BE EQUIPPED WITH HOODS AS PER MHD (SD) 201.12.0. ALL CATCH BASIN GRATES SHALL BE MARKED WITH LETTERING CAST INTO THE GRATE, "DUMP NO WASTE! DRAINS TO WATERWAYS".
6. ALL PROP. DRAINAGE AND SAN. SEWER STRUCTURES SHALL BE SUPPORTED WITH A 12" CRUSHED STONE (M2.01.1) FOUNDATION.
7. ALL REINFORCED CONCRETE PIPE USED ON THIS PROJECT SHALL BE CLASS IV, UNLESS OTHERWISE DESIGNATED ON THE PLANS.
8. ALL EXISTING DRAIN AND SAN. SEWER LINES TO BE REPLACED SHALL BE ABANDONED IN PLACE, IF THEY CONFLICT WITH ANY PROP. WORK THEY SHALL BE REMOVED.
9. WHERE LINES OR STRUCTURES ARE ABANDONED IN PLACE, THE CONTRACTOR SHALL ENSURE THAT ALL CONNECTING PIPES, INLETS, AND OUTLETS ARE PLUGGED. ALL LIVE CONNECTIONS SHALL BE CONNECTED TO NEW WORK TO THE SATISFACTION OF THE ENGINEER.

10. CATCH BASIN, DROP INLET, AND MANHOLE FRAMES AND GRATES/COVERS SHALL CLEARLY ALIGN WITH THE OPENINGS IN THE PRECAST STRUCTURES.
11. ALL EXISTING PAVEMENT MARKINGS SHALL BE REPLACED IN KIND AFTER FINAL PAVING OF ROAD RECONSTRUCTION AREAS UNDER THIS CONTRACT.
12. ALL STRUCTURE STATIONS AND OFFSETS ARE TO THE CENTER POINT OF THE PROP. GRATE OR COVER.
13. ALL PROPOSED GRANITE CURBING SHALL BE MADOT TYPE VB AND SHALL INCLUDE REMOVAL OF EXISTING GRANITE CURBING, WHERE APPLICABLE, UNLESS OTHERWISE DESIGNATED ON THE PLANS.
14. NEW SIDEWALKS, WHEELCHAIR RAMPS, PRIVATE WALKS AND DRIVEWAYS SHALL BE CONSTRUCTED TO THE NEAREST SCORE LINE OR EXPANSION JOINT IN THE EXISTING ADJACENT SURFACES OR AS DIRECTED BY THE ENGINEER. PROP. CEMENT CONCRETE SIDEWALKS SHALL INCLUDE REMOVAL OF EXISTING SIDEWALK SURFACES.
15. ALL WHEELCHAIR RAMPS SHALL MEET THE LATEST REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE LATEST STANDARDS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.
16. ALL DRIVEWAY REPAIRS SHALL BE "TYPICAL DRIVEWAYS" AS SHOWN IN THE DETAILS.
17. IN EXCAVATION AREAS, ALL TOPSOIL SHALL BE REMOVED TO A DEPTH OF 12" (MINIMUM) OR AS DIRECTED BY THE ENGINEER AND SHALL BE STOCKPILED FOR RESPREADING AFTER BACKFILLING IS COMPLETED.
18. MAILBOXES, FENCES, STREET SIGNS, LANDSCAPING FEATURES, ETC. THAT NEED TO BE REMOVED AND RESET OR RELOCATED SHALL BE DONE SO TO THE SATISFACTION OF THE ENGINEER. ALL ITEMS SHALL BE SET TO MHD STANDARDS. ELECTRIC DOG FENCES ENCOUNTERED DURING THE WORK SHALL BE PROTECTED OR RESTORED.
19. CONTRACTOR SHALL COMPLY IN ALL RESPECTS WITH ALL ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT.
20. SOME GODFREY BROOK FIELDSTONE WALLS HAVE BEEN REPLACED WITH CONCRETE WALLS.
21. IF ANY ARTIFACTS OR HUMAN REMAINS ARE FOUND DURING GROUND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL CEASE WORK AND IMMEDIATELY NOTIFY THE ENGINEER.
22. ALL DISTURBED AREAS NOT OTHERWISE SURFACED SHALL RECEIVE 6" LOAM AND SEED AND BE ESTABLISHED AS LAWNS.

2	ISSUED FOR BIDDING	EDM	2/10/15
1	ISSUED FOR PERMITTING, WITH MODIFICATIONS	EDM	11/24/14
NO.	ISSUE/DESCRIPTION	BY	DATE

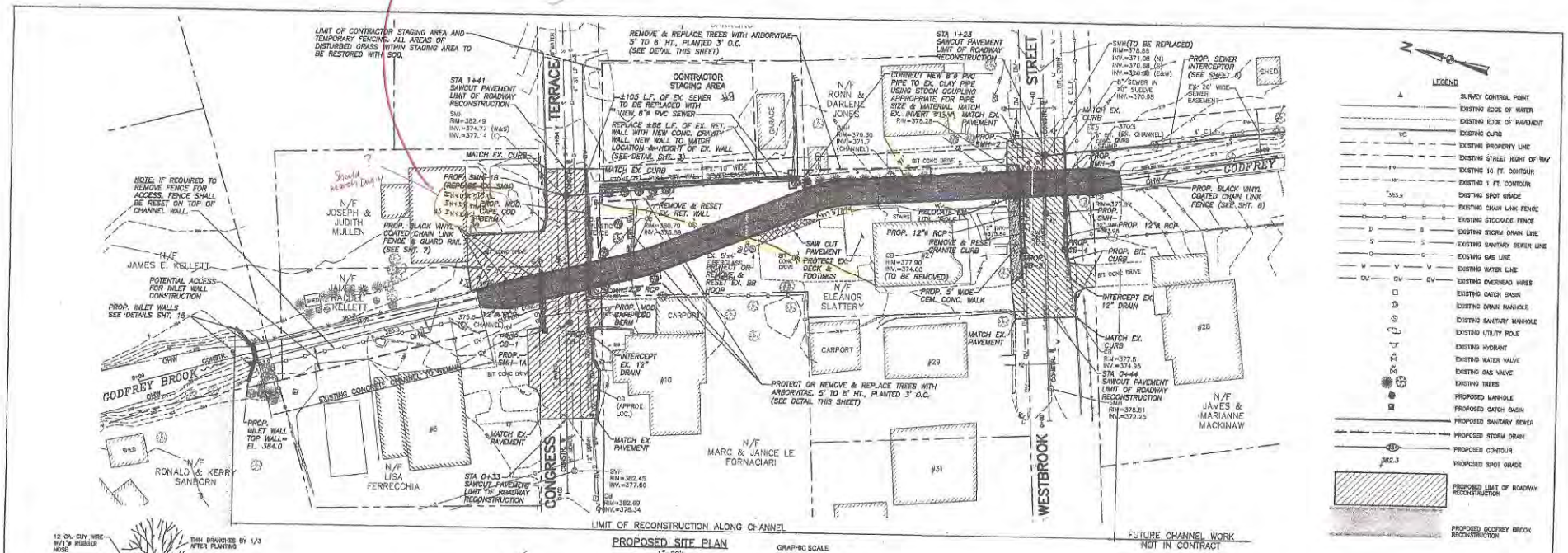
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE REPRODUCED, 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.

**GODFREY BROOK
 IMPROVEMENT PROJECT**

**EXISTING SITE PLAN
 CONGRESS TERRACE/WESTBROOK ST./WEST WALNUT ST.**

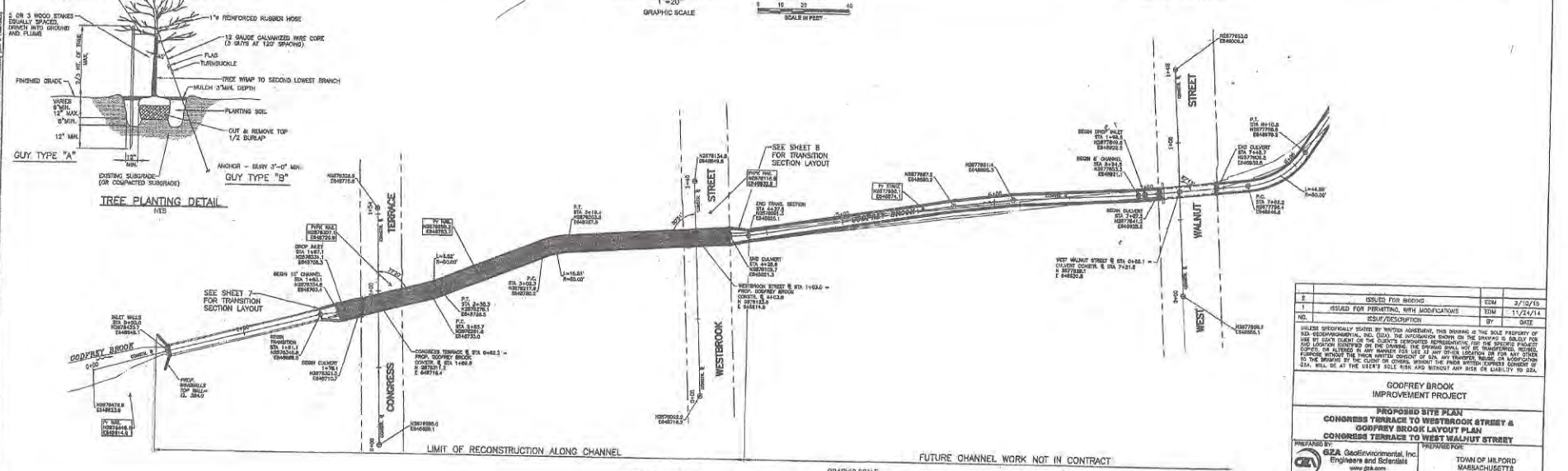
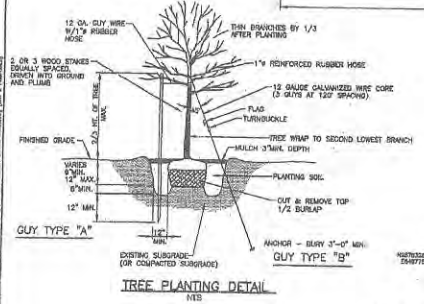
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: TOWN OF MILFORD MASSACHUSETTS
PROJ MGR: TEJ DESIGNED BY: RSH/J DATE: AUGUST 2014	CHECKED BY: TEJ SCALE: 1"=30' REVISION NO.
15.01060148.2	DRAWING 1 SHEET NO. 1 OF 18

See sheet 4



LEGEND

SP	SURVEY CONTROL POINT
---	EXISTING EDGE OF WATER
---	EXISTING EDGE OF PAVEMENT
---	EXISTING CURB
---	EXISTING PROPERTY LINE
---	EXISTING STREET RIGHT OF WAY
---	EXISTING 10 FT. CONTOUR
---	EXISTING 5 FT. CONTOUR
---	EXISTING SPOT GRADE
---	EXISTING CHAIN LINK FENCE
---	EXISTING STOCARD FENCE
---	EXISTING SANITARY DRAIN LINE
---	EXISTING GAS LINE
---	EXISTING WATER LINE
---	EXISTING SANITARY SEWER LINE
---	EXISTING OVERHEAD WIRES
---	EXISTING CATCH BASIN
---	EXISTING DRAIN MANHOLE
---	EXISTING SANITARY MANHOLE
---	EXISTING UTILITY POLE
---	EXISTING HYDRANT
---	EXISTING WATER VALVE
---	EXISTING GAS VALVE
---	EXISTING TREES
---	PROPOSED MANHOLE
---	PROPOSED CATCH BASIN
---	PROPOSED SANITARY SEWER
---	PROPOSED STORM DRAIN
---	PROPOSED CONTOUR
---	PROPOSED SPOT GRADE
---	PROPOSED LIMIT OF ROADWAY RECONSTRUCTION
---	PROPOSED GODFREY BROOK RECONSTRUCTION



1	ISSUED FOR BIDDING	ESM	2/12/15
2	ISSUED FOR PERMITTING, CITY APPROVALS	ESM	11/24/14
3	ISSUED FOR PERMITTING, STATE APPROVALS	ESM	11/24/14

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF SEA AND ENVIRONMENTAL, INC. (SEA). THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON FIELD SURVEY DATA AND INFORMATION PROVIDED BY THE CLIENT. THE DRAWING SHALL BE THE PROPERTY OF SEA AND ENVIRONMENTAL, INC. AND SHALL BE KEPT IN THE CLIENT'S SOLE POSSESSION AND CONTROL. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF SEA AND ENVIRONMENTAL, INC. SEA SHALL BE AT THE CLIENT'S SOLE RISK AND WITHOUT ANY HIGH OR LIABILITY TO SEA.

GODFREY BROOK IMPROVEMENT PROJECT

PROPOSED SITE PLAN
CONGRESS TERRACE TO WESTBROOK STREET & GODFREY BROOK LAYOUT PLAN
CONGRESS TERRACE TO WEST WALNUT STREET

DESIGNED BY: SEA & ENVIRONMENTAL, INC.
ENGINEERS AND ARCHITECTS
1500 GUNN STREET
WEST WALNUT STREET
WEST WALNUT, MA 01981

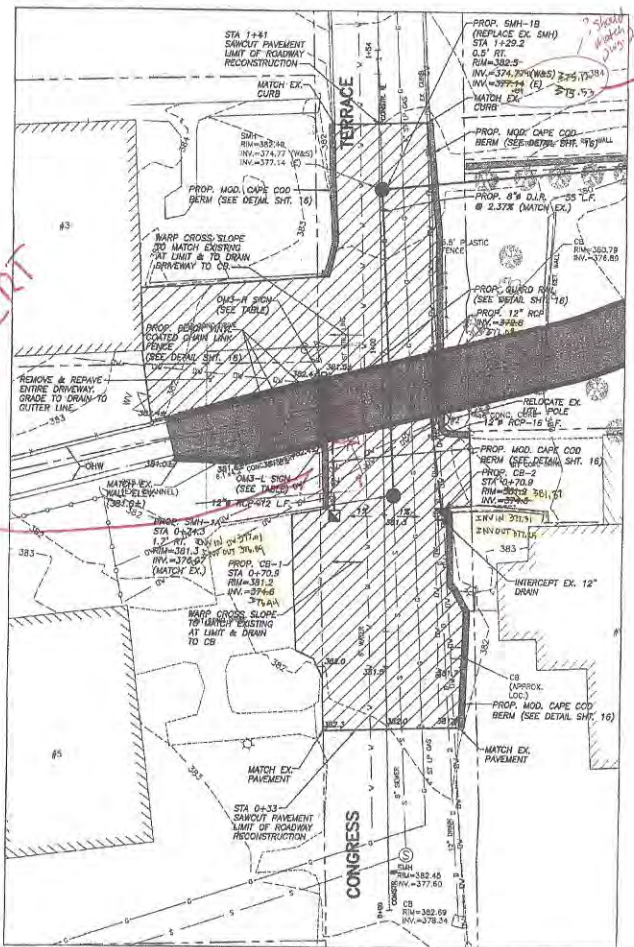
PROJECT NO.: 14-0106-02
REVISIONS: 02

DATE: AUGUST 2014
DRAWING NO.: 2
SHEET NO. 3 OF 18

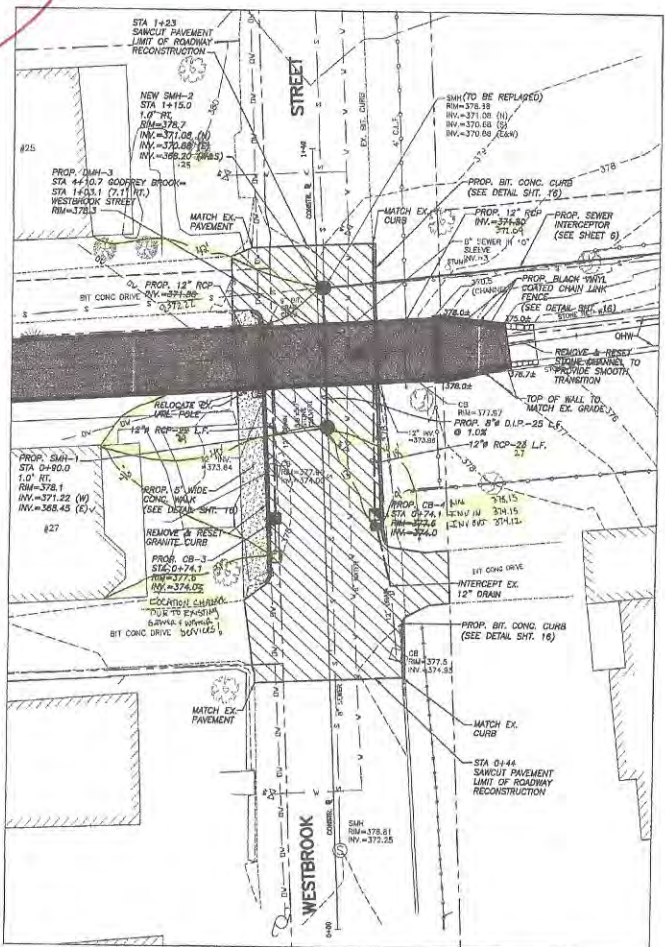
GODFREY BROOK LAYOUT PLAN
1"=30'
GRAPHIC SCALE
SCALE IN FEET

377.53 HIGH DROP
375.53 LOW DROP

12" RCP
TUNNEL @ CULVERT
378.94



CONGRESS TERRACE ROADWAY SITE PLAN
GRAPHIC SCALE 1"=10'
SCALE IN FEET



WESTBROOK STREET ROADWAY SITE PLAN
GRAPHIC SCALE 1"=10'
SCALE IN FEET



TRAFFIC SIGN SUMMARY						
SIGN/TRAFFIC MARK	SIDE OF SIGN	TEXT	TEXT DIMENSIONS (LETTER HEIGHT SPACING)	NUMBER OF SIGNS	CD OR LEGEND	POST SIZE & NUMBER
D12-R	18" x 36"	SEE MUT.C.D.	SEE MUT.C.D.	1	SEE MUT.C.D.	PS
D13-L	18" x 36"	SEE MUT.C.D.	SEE MUT.C.D.	1	SEE MUT.C.D.	PS

NO.	ISSUED FOR	DATE
2	ISSUED FOR BIDDING	08/11/14
1	ISSUED FOR PERMITTING WITH MODIFICATIONS	08/11/14
NO.	ISSUE/DESCRIPTION	DATE

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GODFREY BROOK IMPROVEMENT PROJECT

**PROPOSED ROADWAY PLANS
CONGRESS TERRACE & WESTBROOK STREET**

PREPARED BY: **BZA GeoEnvironmental, Inc.**
Engineers and Scientists
www.bza.com

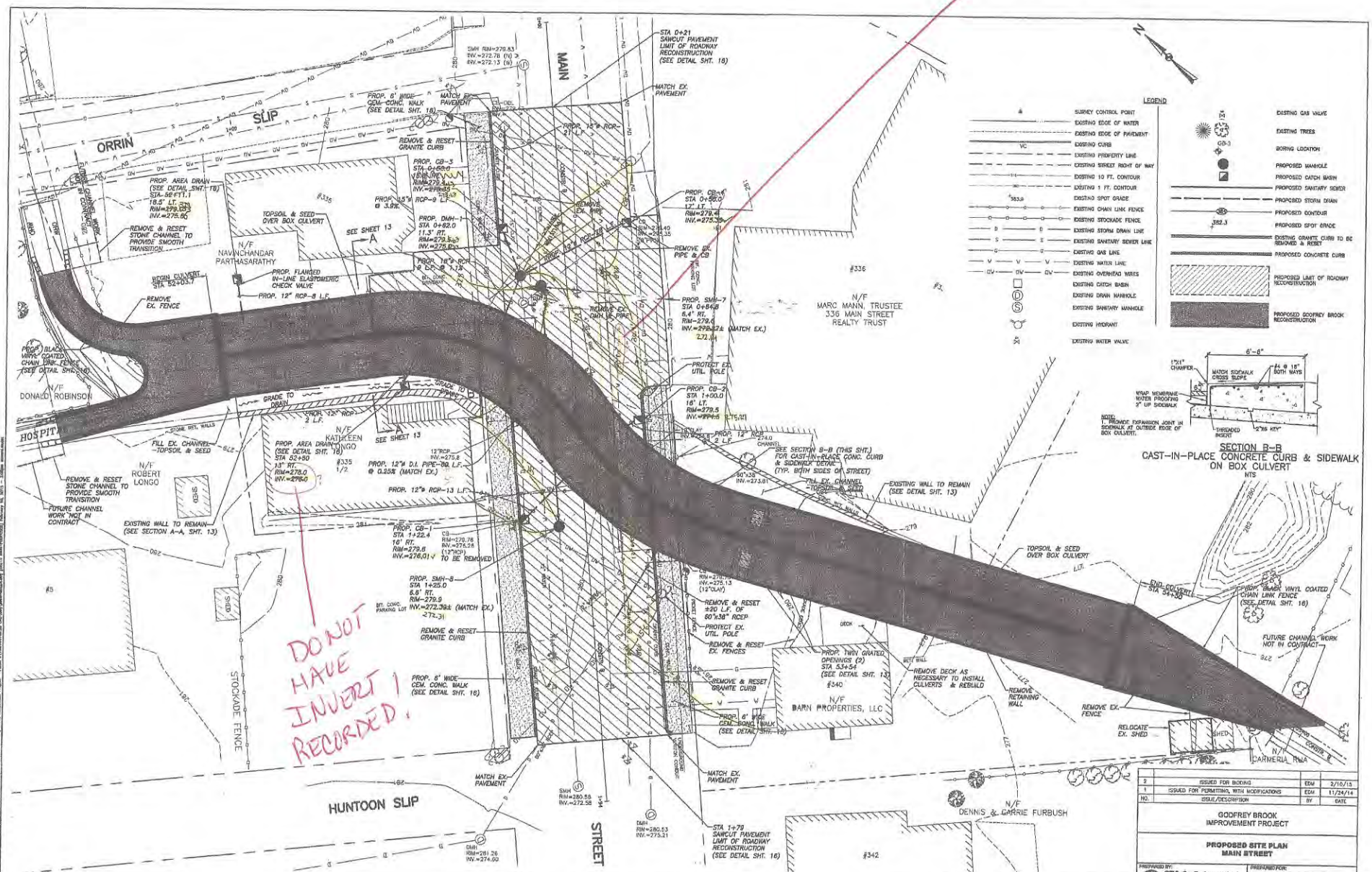
PREPARED FOR: **TECHNICAL SERVICES**
MASSACHUSETTS

PROJECT NO.: 15.0108162
DATE: AUGUST 2014

DESIGNED BY: TRJ
CHECKED BY: TRJ
SCALE: 1/4"=1'
DRAWING NO.: 4
REVISIONS: 1

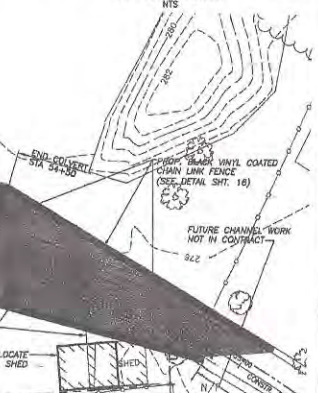
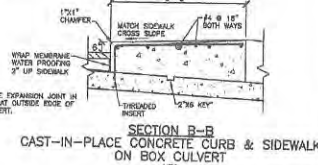
SHEET NO. 4 OF 14

8" DI Water



DO NOT HAVE INVERT RECORDED.

- LEGEND**
- SURVEY CONTROL POINT
 - EXISTING EDGE OF WATER
 - EXISTING EDGE OF PAVEMENT
 - EXISTING CURB
 - EXISTING PROPERTY LINE
 - EXISTING STREET RIGHT OF WAY
 - EXISTING 10 FT. CONTOUR
 - EXISTING 1 FT. CONTOUR
 - EXISTING SPOT GRADE
 - EXISTING CHAIN LINK FENCE
 - EXISTING STOCKADE FENCE
 - EXISTING DRAIN LINE
 - EXISTING SANITARY SEWER LINE
 - EXISTING GAS LINE
 - EXISTING WATER LINE
 - EXISTING OVERHEAD WIRES
 - EXISTING DRAIN MANHOLE
 - EXISTING SANITARY MANHOLE
 - EXISTING HYDRANT
 - EXISTING WATER VALVE
 - EXISTING GAS VALVE
 - EXISTING TREES
 - BORING LOCATION
 - PROPOSED MANHOLE
 - PROPOSED CATCH BASIN
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM DRAIN
 - PROPOSED CONTOUR
 - PROPOSED SPOT GRADE
 - EXISTING GRANITE CURB TO BE REMOVED & RESET
 - PROPOSED GRANITE CURB
 - PROPOSED LIMIT OF ROADWAY RECONSTRUCTION
 - PROPOSED GODFREY BROOK RECONSTRUCTION



SITE PLAN
1"=10'
GRAPHIC SCALE
SCALE IN FEET

2	ISSUED FOR BIDDING	EDM	2/10/13
1	ISSUED FOR PERMITTING, WITH MODIFICATIONS	EDM	11/24/14
NO.	ISSUE/DESCRIPTION	BY	DATE

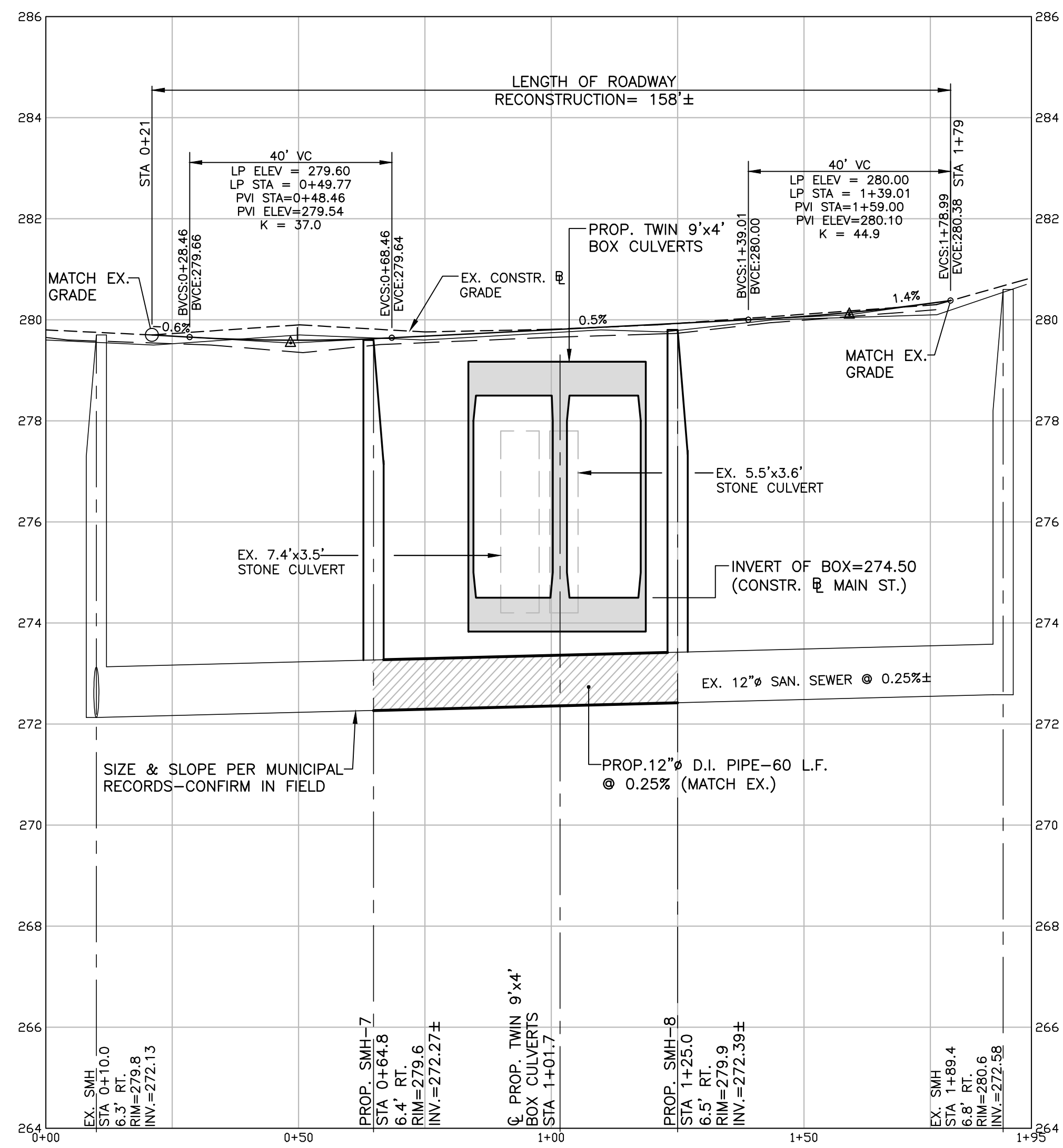
GODFREY BROOK IMPROVEMENT PROJECT

PROPOSED SITE PLAN
MAIN STREET

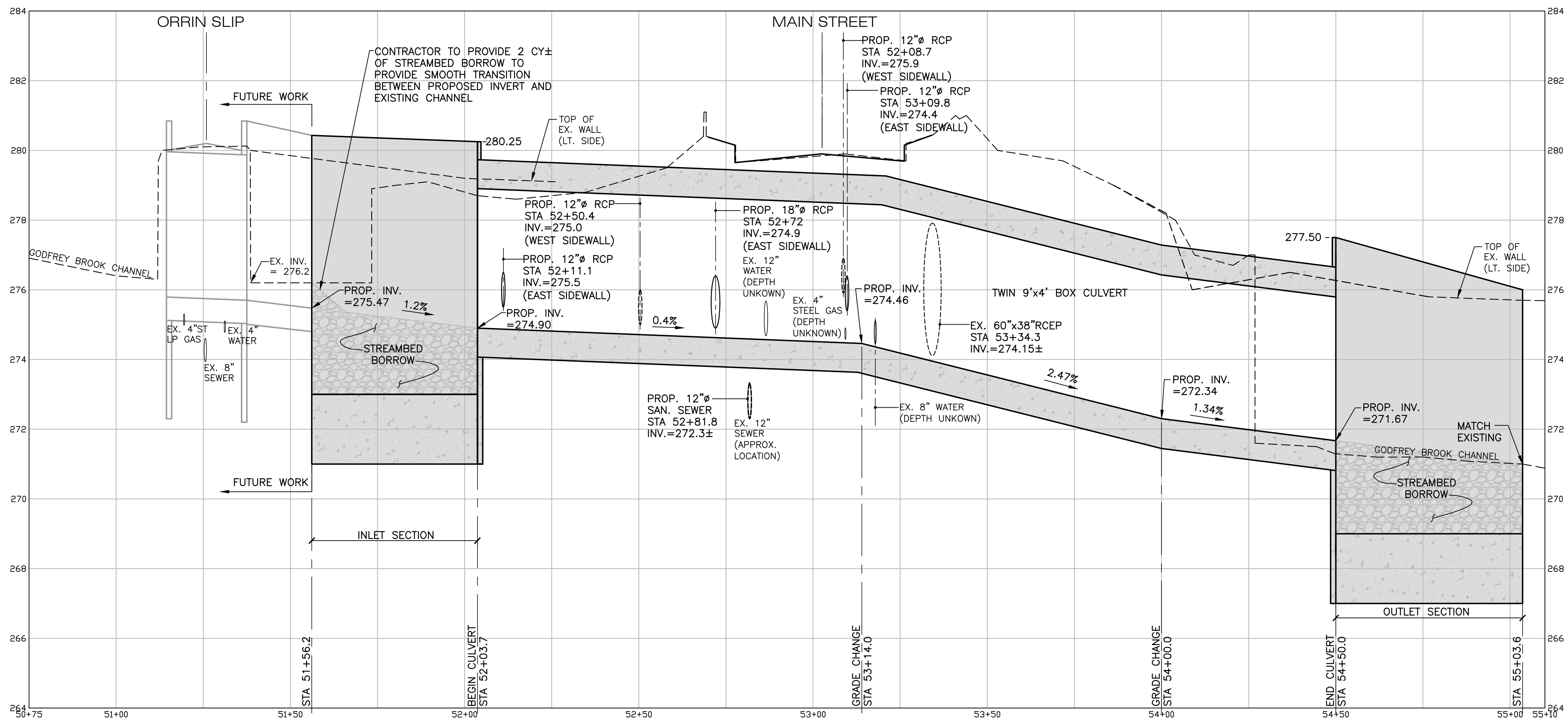
PREPARED BY: **GZA GeoEnvironmental, Inc.**
Engineers and Scientists
www.gza.com

PROJECT NO.: 10111111111111111111
DRAWN BY: EDW
CHECKED BY: RS
DATE: AUGUST 2014
PROJECT NO.: 10111111111111111111
REVISION NO.:
SHEET NO. 13 OF 14

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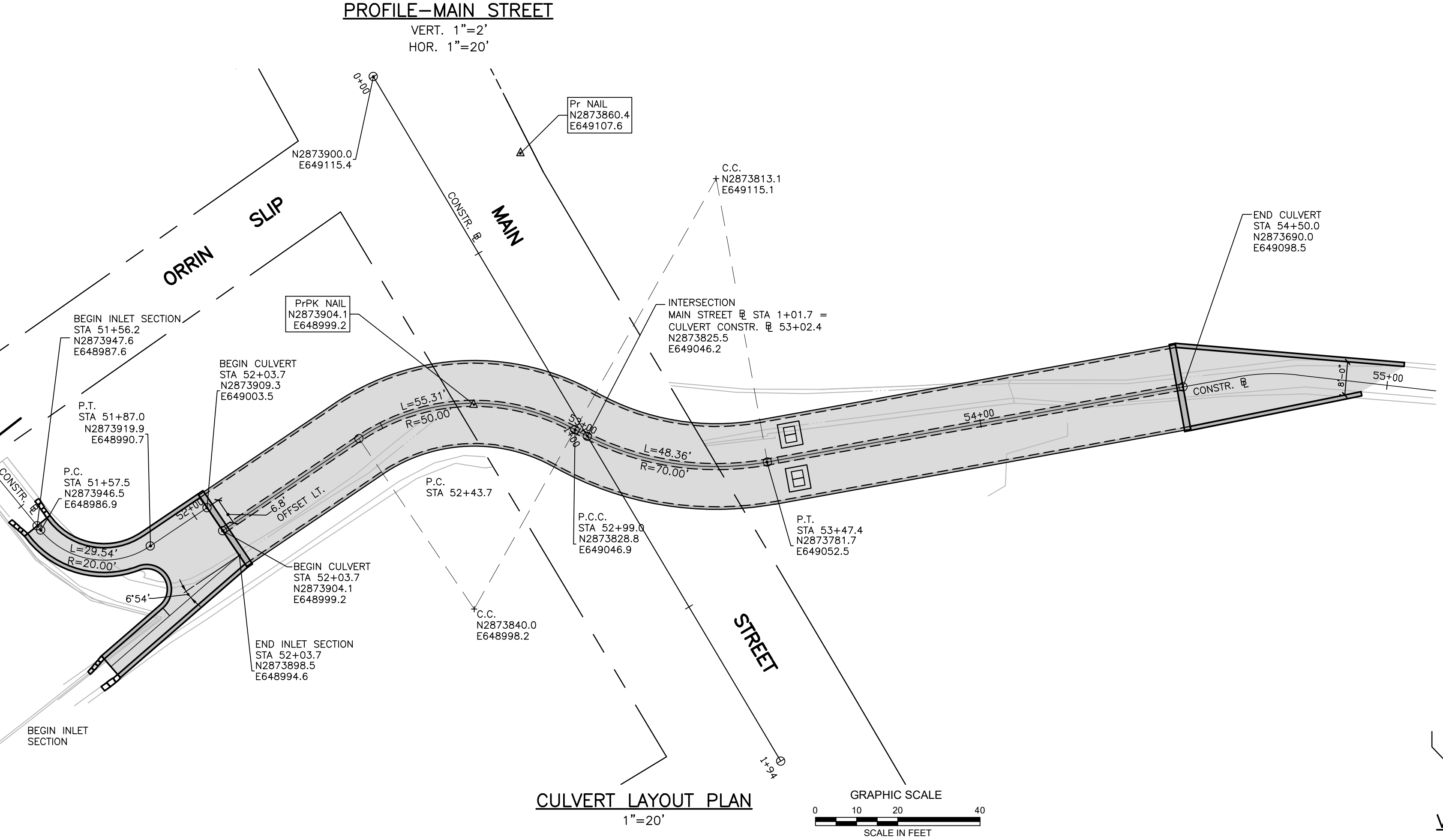


PROFILE-MAIN STREET
VERT. 1"=2'
HOR. 1"=20'

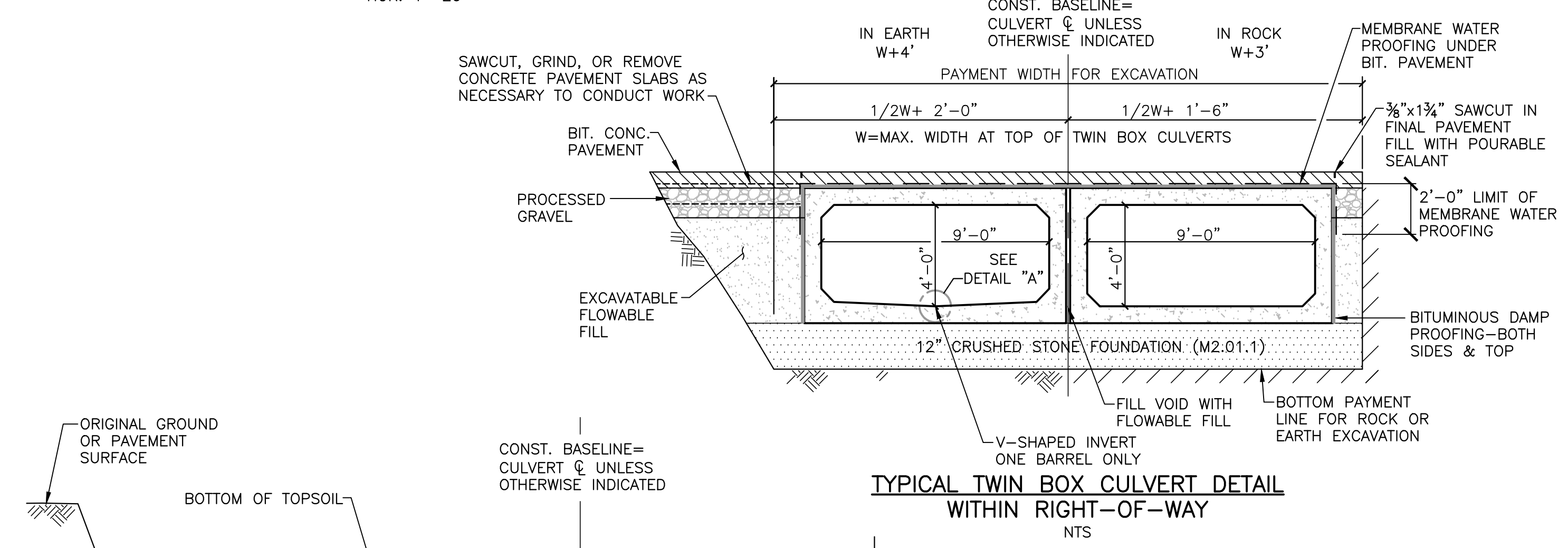
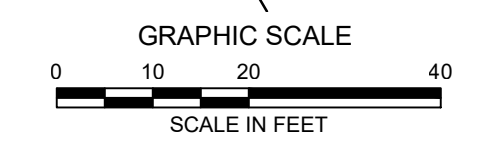


PROFILE-MAIN STREET CULVERT
(PROFILE ALONG CULVERT CONSTR. @)

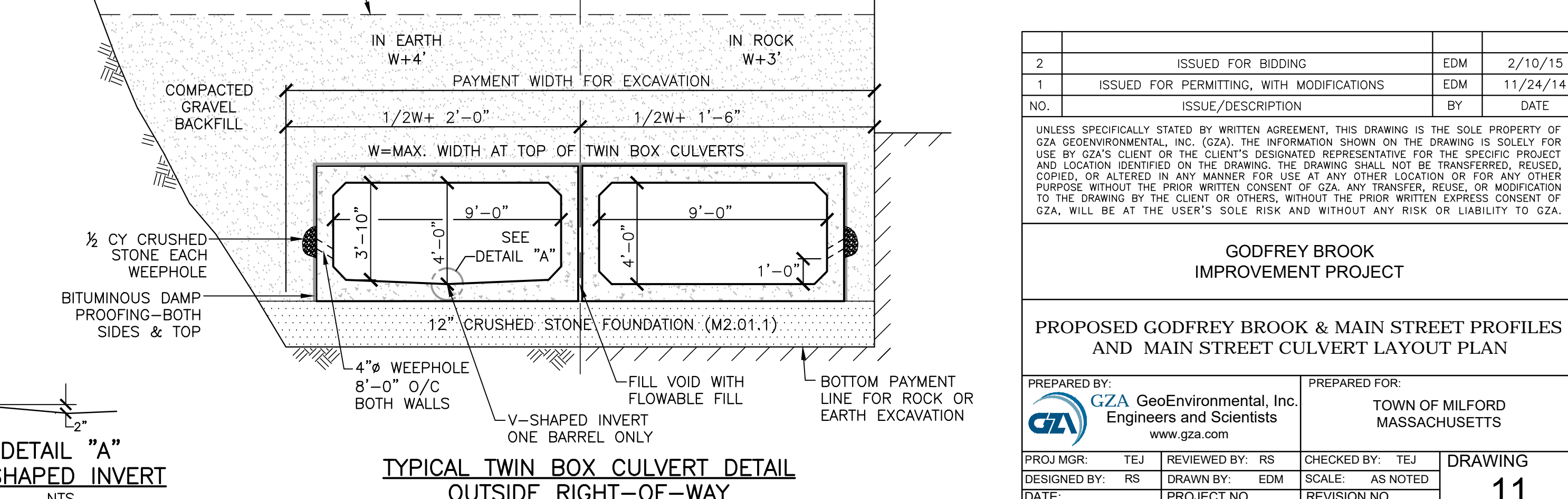
VERT. 1"=2'
HOR. 1"=20'



CULVERT LAYOUT PLAN
1"=20'



TYPICAL TWIN BOX CULVERT DETAIL
WITHIN RIGHT-OF-WAY
NTS



TYPICAL TWIN BOX CULVERT DETAIL
OUTSIDE RIGHT-OF-WAY
NTS

DETAIL "A"
V-SHAPED INVERT
NTS

2	ISSUED FOR BIDDING	EDM	2/10/15
1	ISSUED FOR PERMITTING, WITH MODIFICATIONS	EDM	11/24/14
NO.	ISSUE/DESCRIPTION	BY	DATE

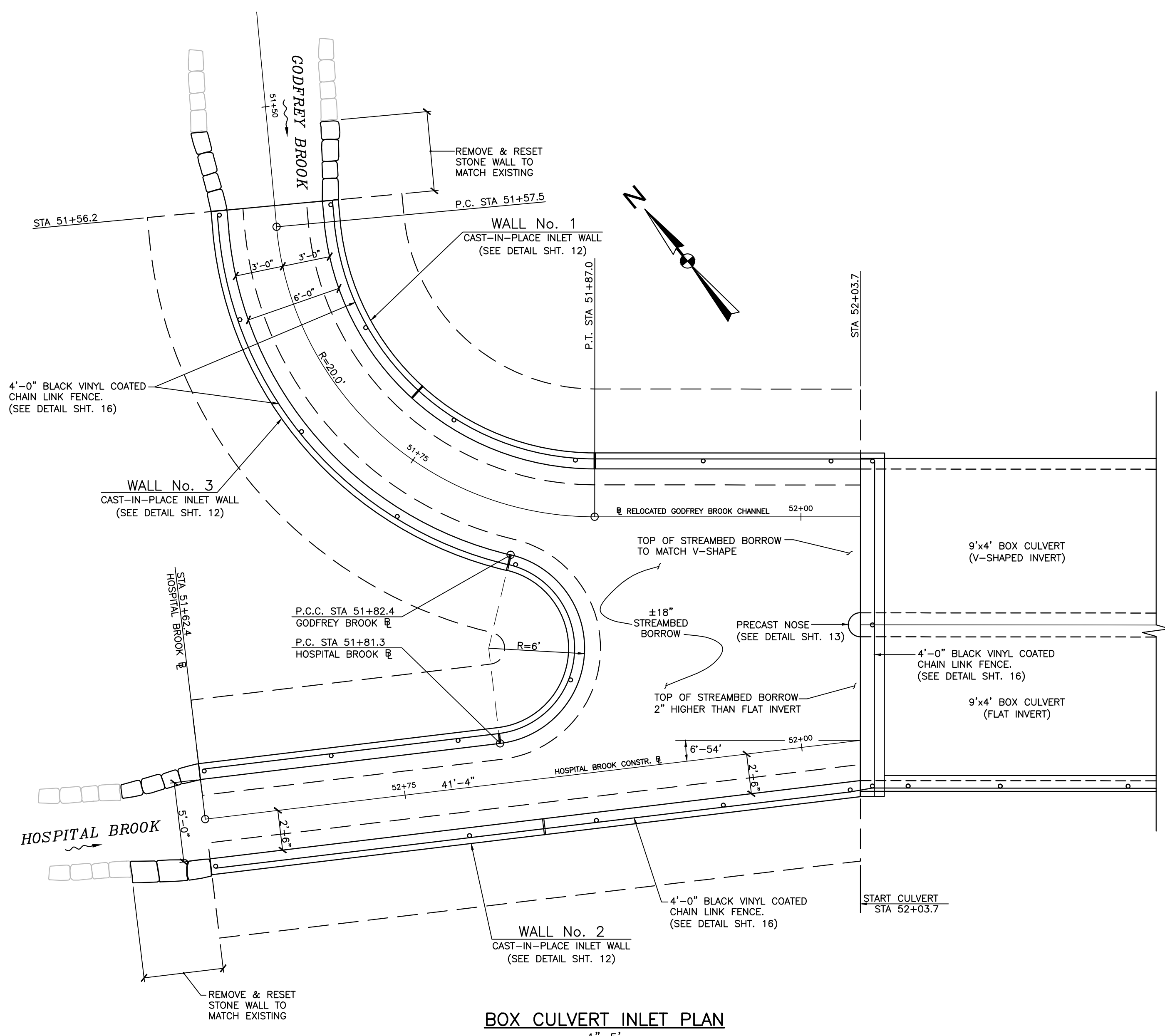
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GODFREY BROOK
IMPROVEMENT PROJECT

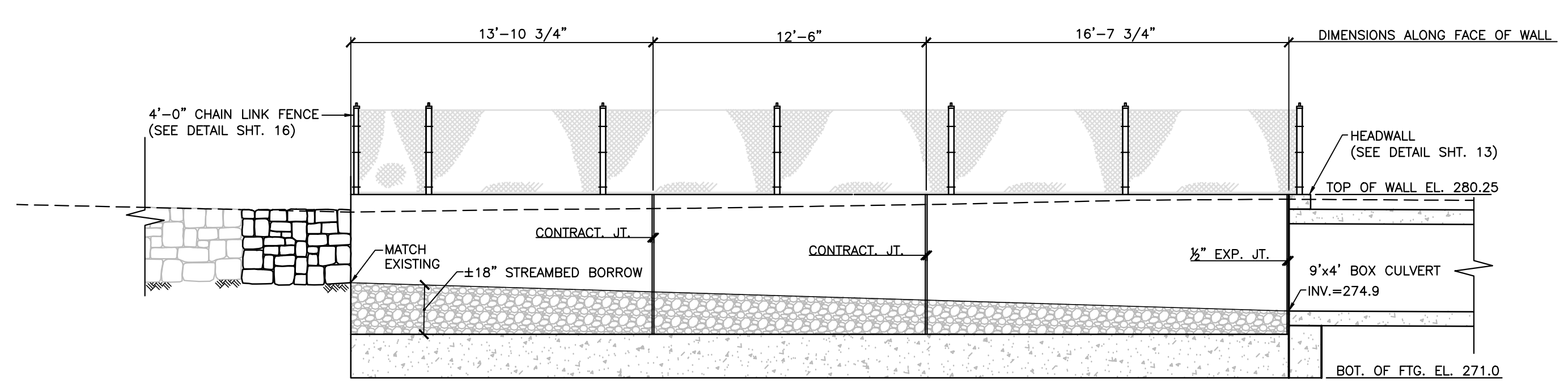
PROPOSED GODFREY BROOK & MAIN STREET PROFILES
AND MAIN STREET CULVERT LAYOUT PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: TOWN OF MILFORD MASSACHUSETTS		
PROJ MGR: TEJ	REVIEWED BY: RS	CHECKED BY: TEJ	DRAWING
DESIGNED BY: RS	DRAWN BY: EDM	SCALE: AS NOTED	
DATE: AUGUST 2014	PROJECT NO. 15.0166148.20	REVISION NO.	11

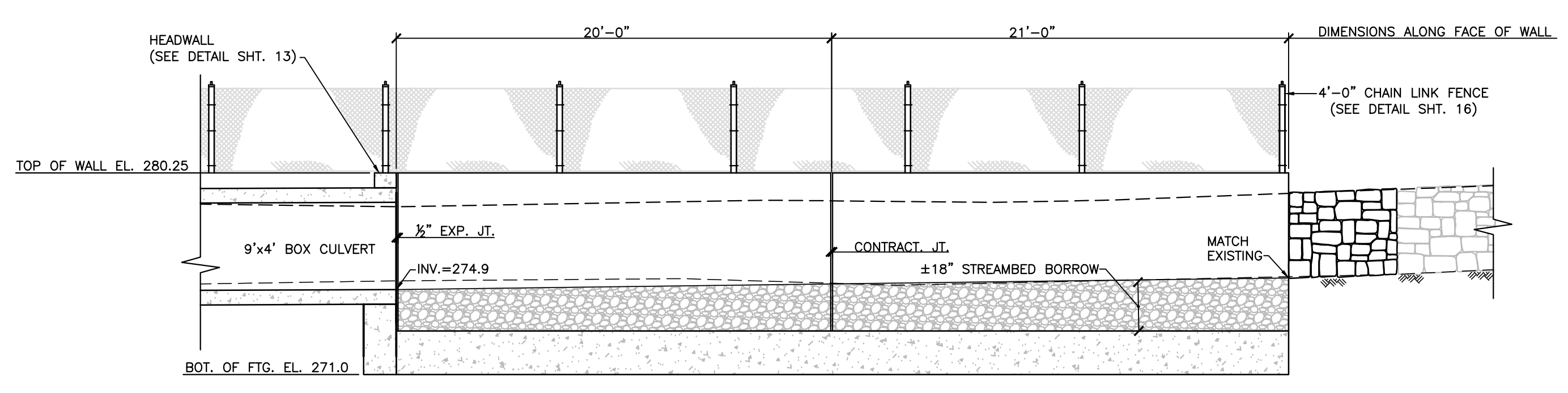
© 2014 - GZA, GeoEnvironmental, Inc. GZA-A-D 166100 - 0 166198 15.0166148.20 CAD/View/MAN-GREEN-ENG [SHT. 12 CULVERT INLET DETAILS] July 09, 2014



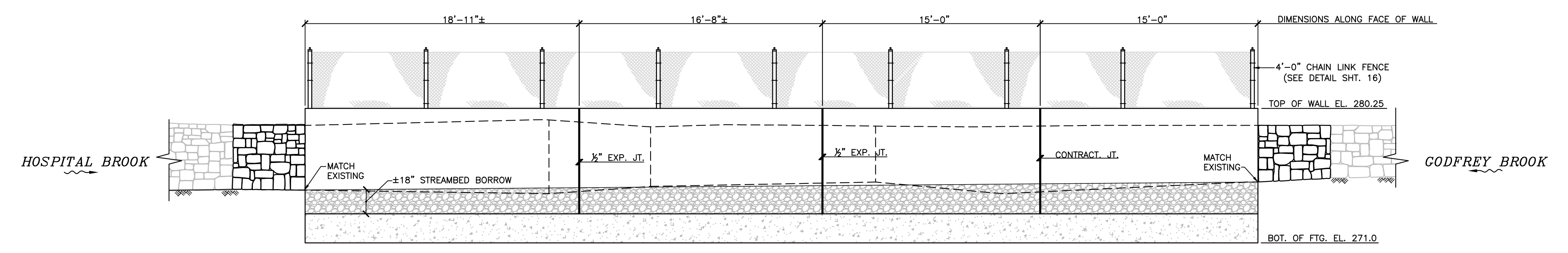
BOX CULVERT INLET PLAN
1"=5'



WALL NO. 1 MAIN STREET CAST-IN-PLACE INLET SECTION
(DEVELOPED VIEW ALONG GODFREY BROOK CONSTRUCTION LOOKING EAST)
1"=5'

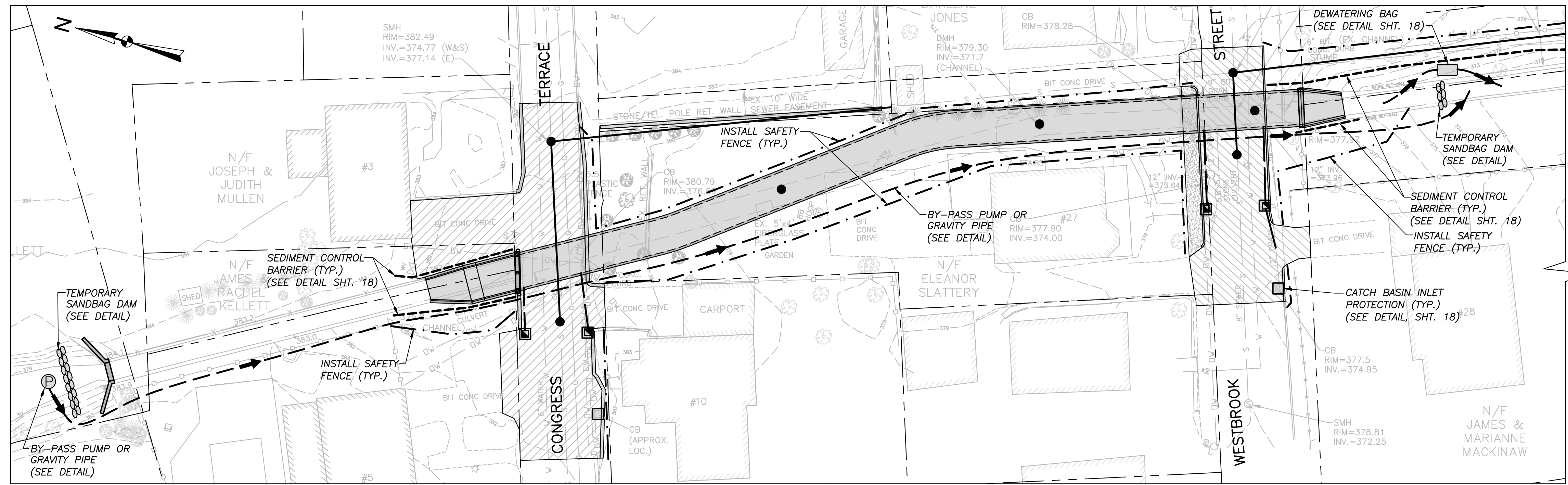


WALL NO. 2 MAIN STREET CAST-IN-PLACE INLET SECTION
(DEVELOPED VIEW ALONG GODFREY BROOK CONSTRUCTION LOOKING WEST)
1"=5'



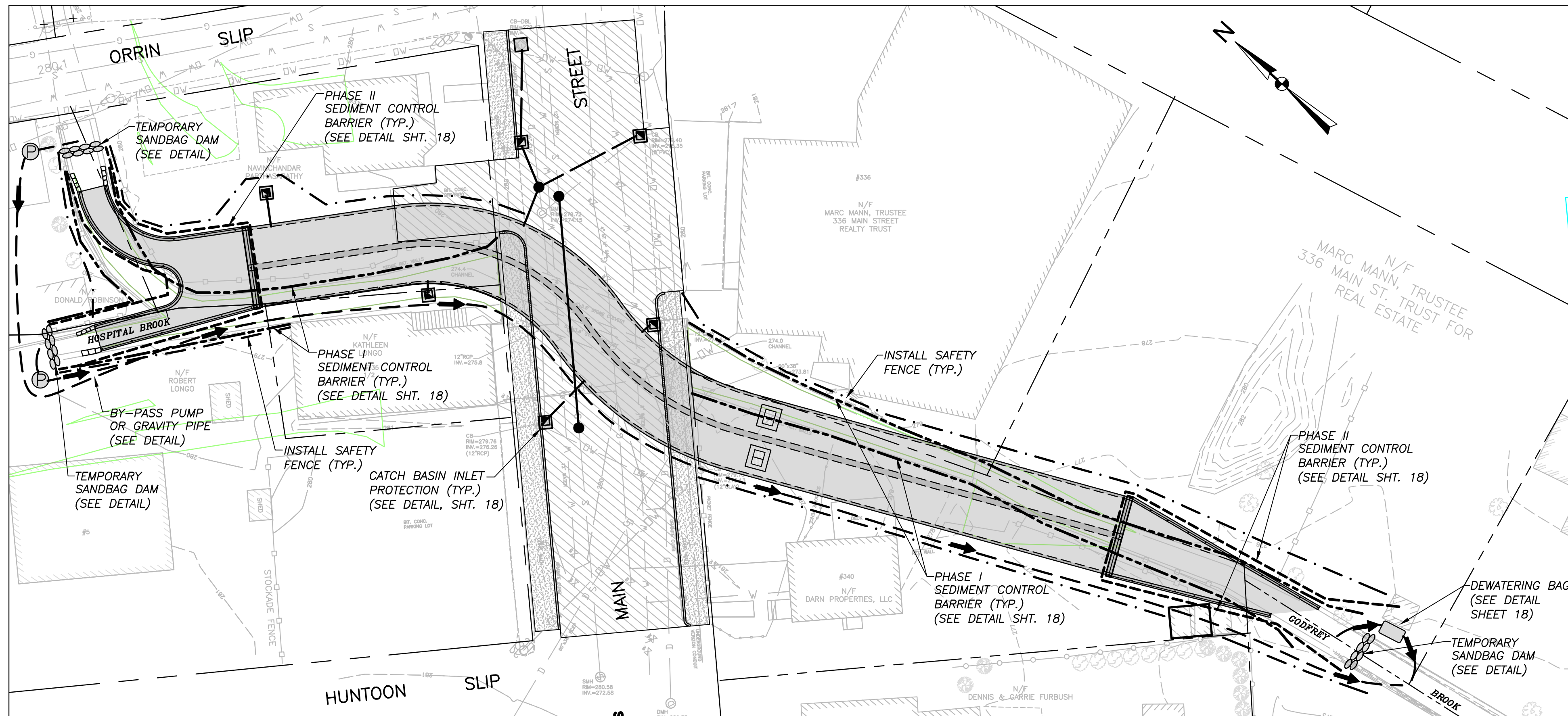
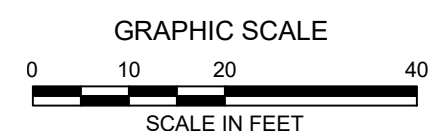
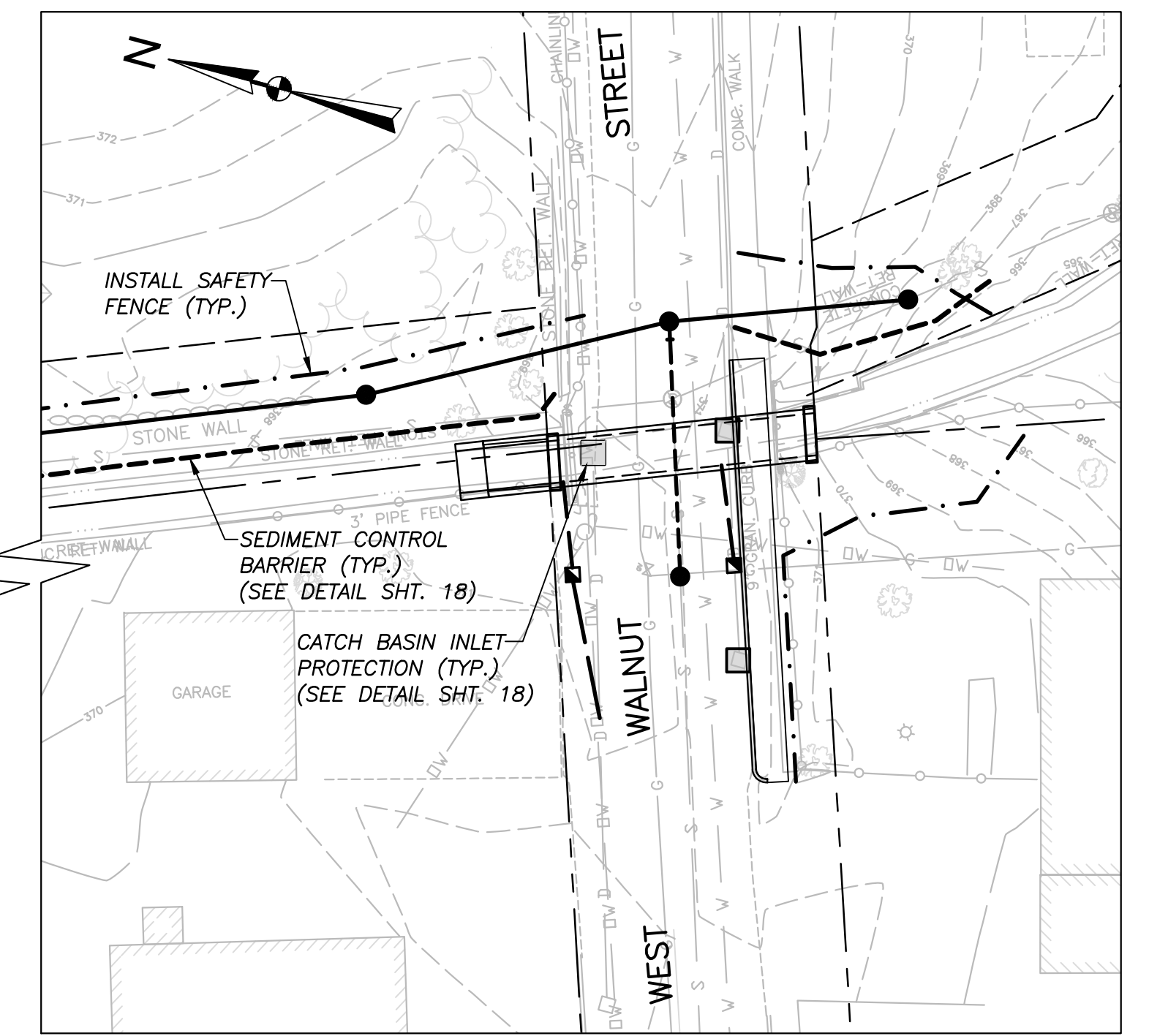
WALL NO. 3 MAIN STREET CAST-IN-PLACE INLET SECTION
(DEVELOPED VIEW ALONG GODFREY BROOK & HOSPITAL BROOK CONSTRUCTION LOOKING NORTH)
1"=5'

2	ISSUED FOR BIDDING	EDM	2/10/15
1	ISSUED FOR PERMITTING, WITH MODIFICATIONS	EDM	11/24/14
NO.	ISSUE/DESCRIPTION	BY	DATE
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GODFREY BROOK IMPROVEMENT PROJECT			
CULVERT INLET DETAILS MAIN STREET			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	TOWN OF MILFORD MASSACHUSETTS
PROJ MGR:	TEJ	REVIEWED BY:	RS
DESIGNED BY:	RS	DRAWN BY:	EDM
DATE:	AUGUST 2014	PROJECT NO.:	15.0166148.20
		SCALE:	AS NOTED
		REVISION NO.:	
		12	SHEET NO. 12 OF 18



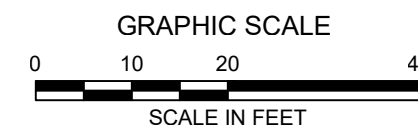
CONGRESS TERRACE TO WEST WALNUT STREET SITE PLAN

1"=20'

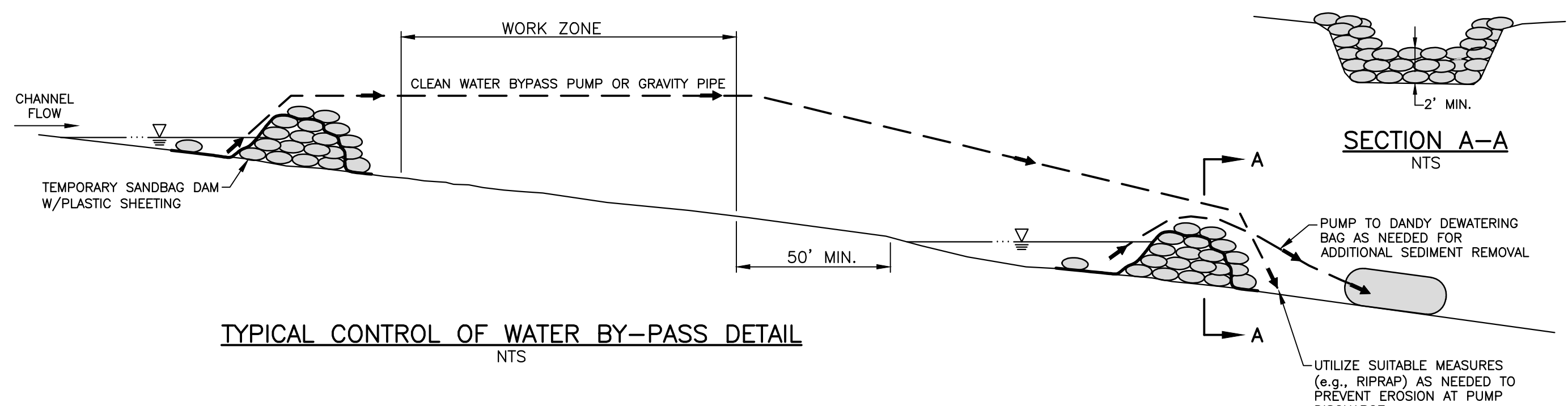


MAIN STREET SITE PLAN

1"=20'



- LEGEND**
- EXISTING EDGE OF WATER
 - EXISTING EDGE OF PAVEMENT
 - VC EXISTING CURB
 - EXISTING PROPERTY LINE
 - EXISTING STREET RIGHT OF WAY
 - 310 EXISTING 10 FT. CONTOUR
 - 307 EXISTING 1 FT. CONTOUR
 - 383.9 EXISTING SPOT GRADE
 - EXISTING CHAIN LINK FENCE
 - EXISTING STOCKADE FENCE
 - EXISTING STORM DRAIN LINE
 - EXISTING SANITARY SEWER LINE
 - EXISTING GAS LINE
 - EXISTING WATER LINE
 - EXISTING OVERHEAD WIRES
 - EXISTING CATCH BASIN
 - EXISTING DRAIN MANHOLE
 - EXISTING SANITARY MANHOLE
 - EXISTING UTILITY POLE
 - EXISTING HYDRANT
 - EXISTING WATER VALVE
 - EXISTING GAS VALVE
 - EXISTING TREES
 - BORING LOCATION
 - PROPOSED MANHOLE
 - PROPOSED CATCH BASIN
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM DRAIN
 - 384 PROPOSED CONTOUR
 - 382.3 PROPOSED SPOT GRADE
 - PROPOSED LIMIT OF ROADWAY RECONSTRUCTION
 - PROPOSED GODFREY BROOK RECONSTRUCTION
 - PROPOSED SAFETY FENCE
 - PROPOSED PHASE I SEDIMENT CONTROL BARRIER
 - PROPOSED PHASE II SEDIMENT CONTROL BARRIER
 - PROPOSED CATCH BASIN INLET PROTECTION
 - PROPOSED BY-PASS PUMP OR GRAVITY PIPE



TYPICAL CONTROL OF WATER BY-PASS DETAIL

2	ISSUED FOR BIDDING	EDM	2/10/15
1	ISSUED FOR PERMITTING, WITH MODIFICATIONS	EDM	11/24/14
NO.	ISSUE/DESCRIPTION	BY	DATE

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GODFREY BROOK IMPROVEMENT PROJECT
SEDIMENT & EROSION CONTROL PLAN

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

PREPARED FOR: **TOWN OF MILFORD MASSACHUSETTS**

PROJ MGR: TEJ	DESIGNED BY: RSHJ	REVIEWED BY: RSHJ	CHECKED BY: TEJ	DRAWING
DATE: AUGUST 2014	PROJECT NO.: 15.0160148.2	SCALE: AS NOTED	REVISION NO.:	17

© 2014 - GZA GeoEnvironmental, Inc. GZA-15.0160148.2 Godfrey Brook Restoration Project - Phase II, 15.0160148.2 CAD View/0001/0001-0001-0001 - Phase II, 15.0160148.2 CAD View/0001/0001-0001-0001 - Phase II, 15.0160148.2 CAD View/0001/0001-0001-0001

Agenda Item # 5



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

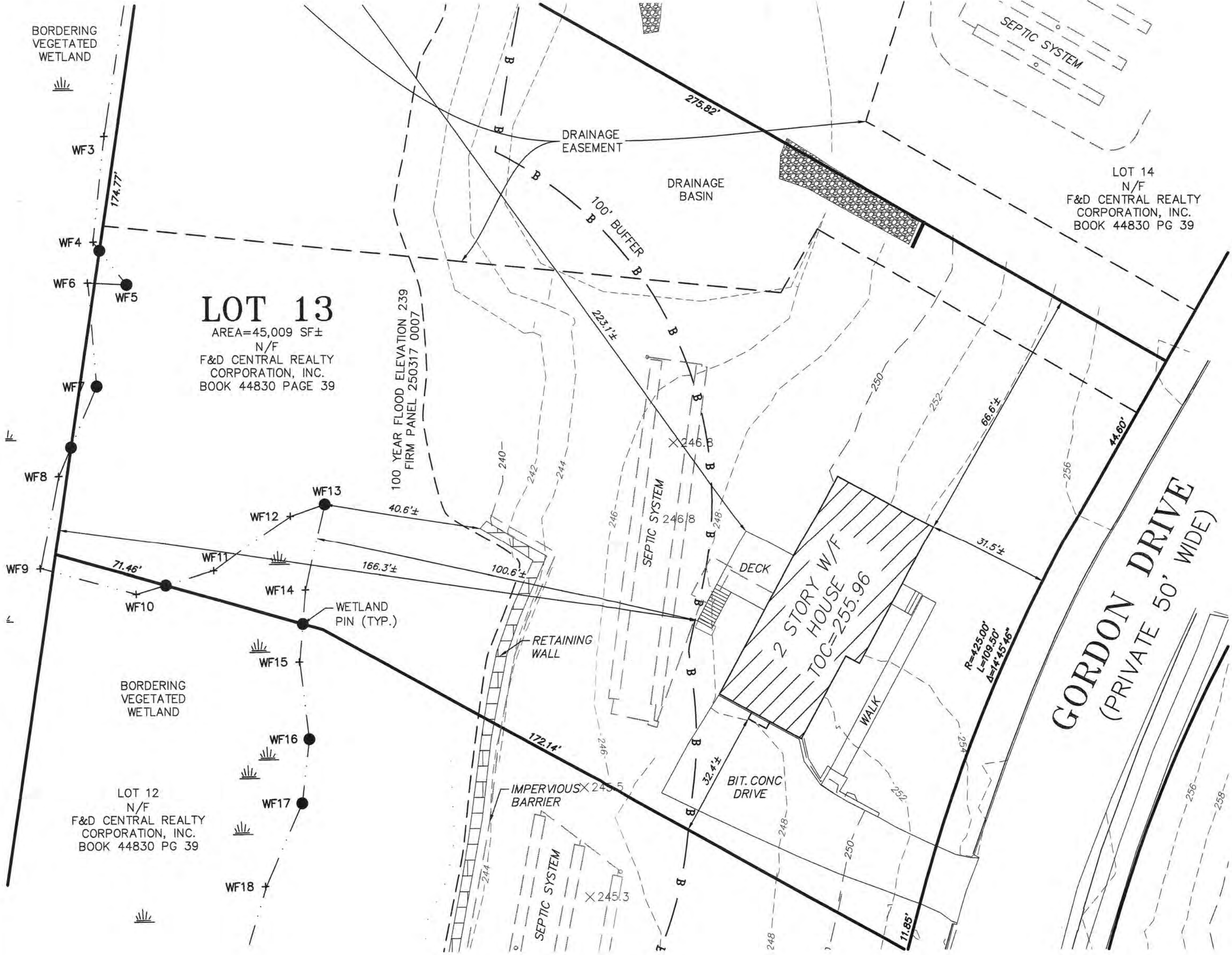
Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: 15 Gordon Drive (Lot 13) - Request for a Certificate of Compliance
DEP File # 223-1146

The following information is in reference to a Request for a Certificate of Compliance for 15 Gordon Drive (Lot 13). The Applicant is F&D Central Realty Corporation, 189 Main Street, Milford, MA 01757.

Following a review of the submitted documents and a site inspection, I recommend the issuance of a Certificate of Compliance for D.E.P. File # 223-1146.



C:\Users\liferico\Desktop\C-5665-1 ASB LOTS.dwg



**Guerriere &
Halnon, Inc.**

ENGINEERING & LAND SURVEYING
333 WEST STREET PH. (508) 473-6630
MILFORD, MA 01757 FX. (508) 473-8243
www.gandengineering.com

I CERTIFY THE PROJECT HAS BEEN COMPLETED
IN SUBSTANTIAL COMPLIANCE WITH THE PLANS
AND CONDITIONS SET FORTH IN THE ORDER OF
CONDITIONS FOR DEP FILE NO. 223-1146.



DATE: 11/11/20

OWNER		
F&D CENTRAL REALTY CORP. INC. 189 MAIN STREET, MILFORD MA		
00/11/09/20	INITIAL SUBMITTAL	JDF

AS-BUILT
PLAN OF LAND
15 GORDON DRIVE
IN
MILFORD, MA
SCALE: 40 FEET TO AN INCH
DATE: NOVEMBER 9, 2020

Agenda Item # 6



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

Michael Dean, P.E.
Town Engineer

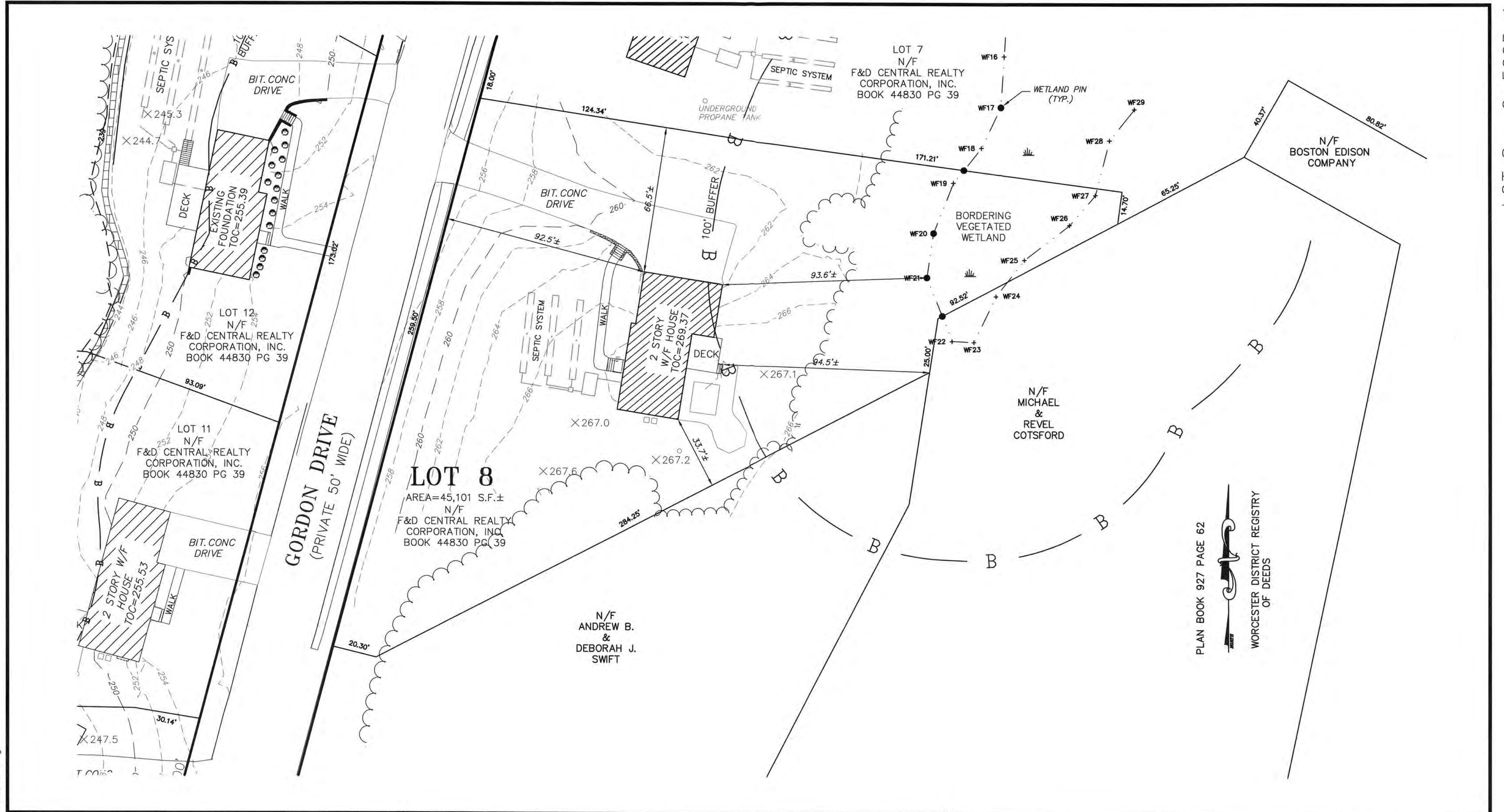
M E M O R A N D U M

TO: Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: 18 Gordon Drive (Lot 8) - Request for a Certificate of Compliance
DEP File # 223-1141

The following information is in reference to a Request for a Certificate of Compliance for 18 Gordon Drive (Lot 8). The Applicant is F&D Central Realty Corporation, 189 Main Street, Milford, MA 01757.

Following a review of the submitted documents and a site inspection, I recommend the issuance of a Certificate of Compliance for D.E.P. File # 223-1141.

C:\C3DMilford\G-5665-1\DWG\G-5665-1 ASB LOTS_recover.dwg



I CERTIFY THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE PLANS AND CONDITIONS SET FORTH IN THE ORDER OF CONDITIONS FOR DEP FILE NO. 223-1141.



DATE:

OWNER		
F&D CENTRAL REALTY CORP. INC. 189 MAIN STREET, MILFORD MA		
00/11/09/20	INITIAL SUBMITTAL	INIT

AS-BUILT
PLAN OF LAND
18 GORDON DRIVE
IN
MILFORD, MA
SCALE: 30 FEET TO AN INCH
DATE: NOVEMBER 9, 2020

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
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MILFORD, MA 01757 FX. (508) 473-8243
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Agenda Item # 7



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

Michael Dean, P.E.
Town Engineer

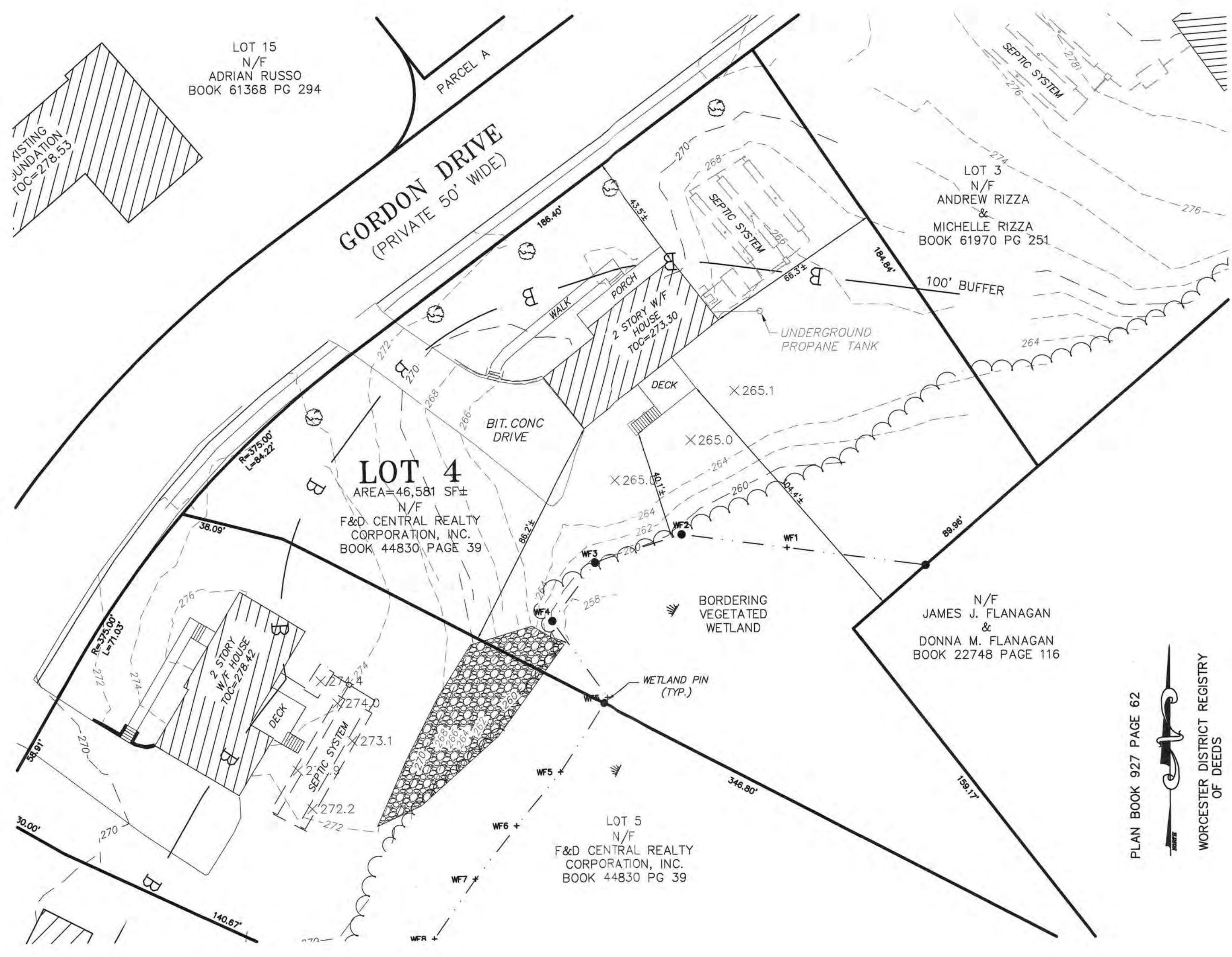
M E M O R A N D U M


TO: Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: 10 Gordon Drive (Lot 4) - Request for a Certificate of Compliance
DEP File # 223-1159

The following information is in reference to a Request for a Certificate of Compliance for 10 Gordon Drive (Lot 4). The Applicant is F&D Central Realty Corporation, 189 Main Street, Milford, MA 01757.

Following a review of the submitted documents and a site inspection, I recommend the issuance of a Certificate of Compliance for D.E.P. File # 223-1159.

C:\Users\Federico\Desktop\G-5665-1 ASB LOTS.dwg



PLAN BOOK 927 PAGE 62

 WORCESTER DISTRICT REGISTRY OF DEEDS



Guerriere & Halnon, Inc.
 ENGINEERING & LAND SURVEYING
 333 WEST STREET PH. (508) 473-6630
 MILFORD, MA 01757 FX. (508) 473-8243
 www.gandengineering.com

I CERTIFY THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE PLANS AND CONDITIONS SET FORTH IN THE ORDER OF CONDITIONS FOR DEP FILE NO. 223-1159.



DATE: 11/11/20

OWNER		
F&D CENTRAL REALTY CORP. INC. 189 MAIN STREET, MILFORD MA		
00 11/09/20	INITIAL SUBMITTAL	JDF

AS-BUILT
 PLAN OF LAND
10 GORDON DRIVE
 IN
MILFORD, MA
 SCALE: 30 FEET TO AN INCH
 DATE: NOVEMBER 9, 2020

Agenda Item # 8



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

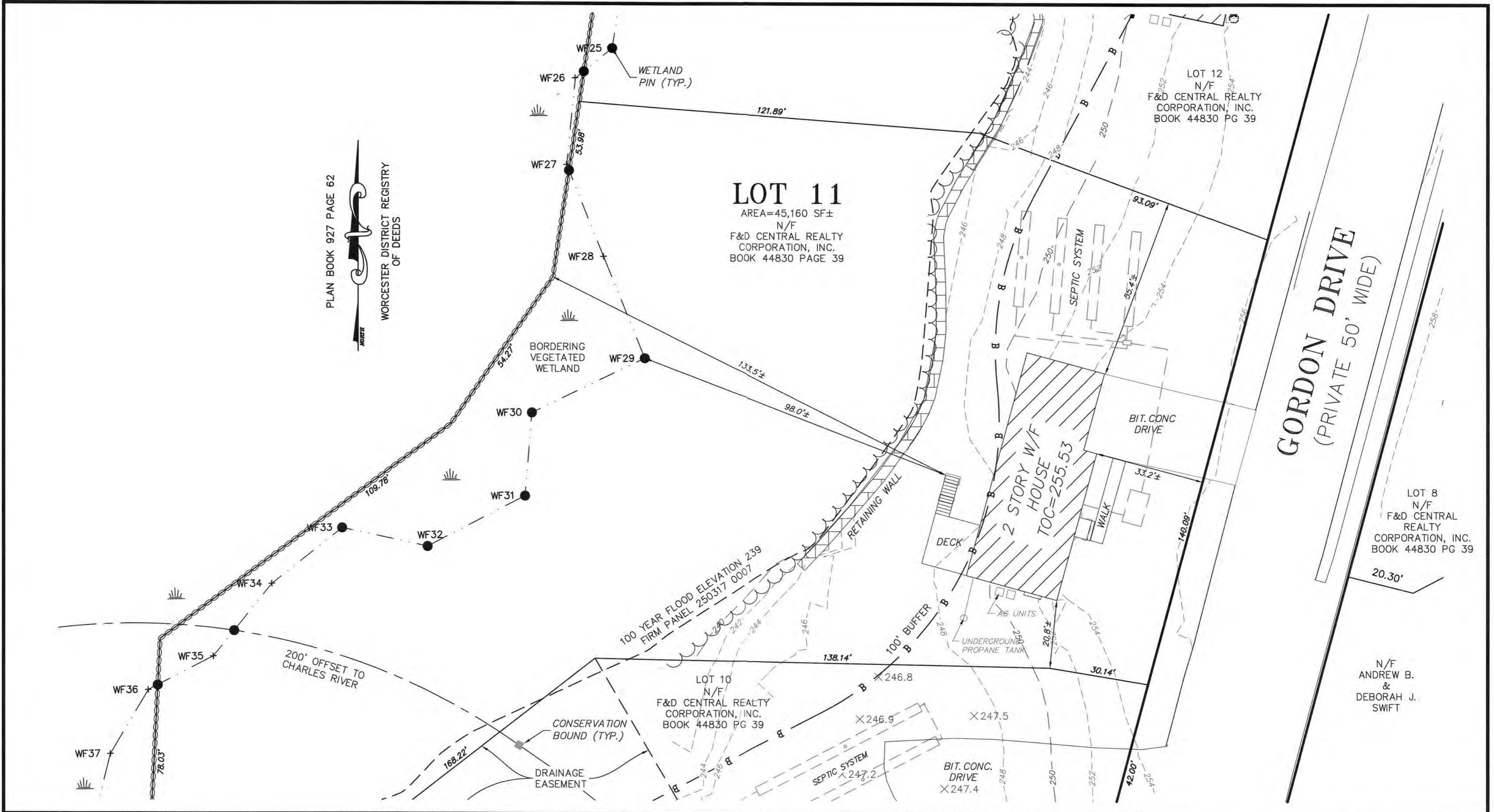
Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: 19 Gordon Drive (Lot 11) - Request for a Certificate of Compliance
DEP File # 223-1148

The following information is in reference to a Request for a Certificate of Compliance for 19 Gordon Drive (Lot 11). The Applicant is F&D Central Realty Corporation, 189 Main Street, Milford, MA 01757.

Following a review of the submitted documents and a site inspection, I recommend the issuance of a Certificate of Compliance for D.E.P. File # 223-1148.



I CERTIFY THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE PLANS AND CONDITIONS SET FORTH IN THE ORDER OF CONDITIONS FOR DEP FILE NO. 223-1148.

ELIZABETH A. MARINI-GANCHIONI
 No. 48096
 REGISTERED PROFESSIONAL ENGINEER

[Signature]

11/11/20

DATE:

OWNER		
F&D CENTRAL REALTY CORP. INC. 189 MAIN STREET, MILFORD MA		
00	DATE	INITIAL SUBMITTAL

AS-BUILT
 PLAN OF LAND
19 GORDON DRIVE
 IN
MILFORD, MA
 SCALE: 20 FEET TO AN INCH
 DATE: NOVEMBER 9, 2020

Guerriere & Halnon, Inc.
 ENGINEERING & LAND SURVEYING
 333 WEST STREET PH. (508) 473-6630
 MILFORD, MA 01757 FX. (508) 473-8243
 www.gandhengineering.com

Agenda Item # 9



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: 114 Beaver Street (Lot A)- Request for a Certificate of Compliance
DEP File # 223-1157

The following information is in reference to a Request for a Certificate of Compliance for 114 Beaver Street (Lot A). The Applicant is F&D Central Realty Corporation, 189 Main Street, Milford, MA 01757.

Following a review of the submitted documents and a site inspection, I recommend the issuance of a Certificate of Compliance for D.E.P. File # 223-1157.

PLAN BOOK 938 PLAN 72

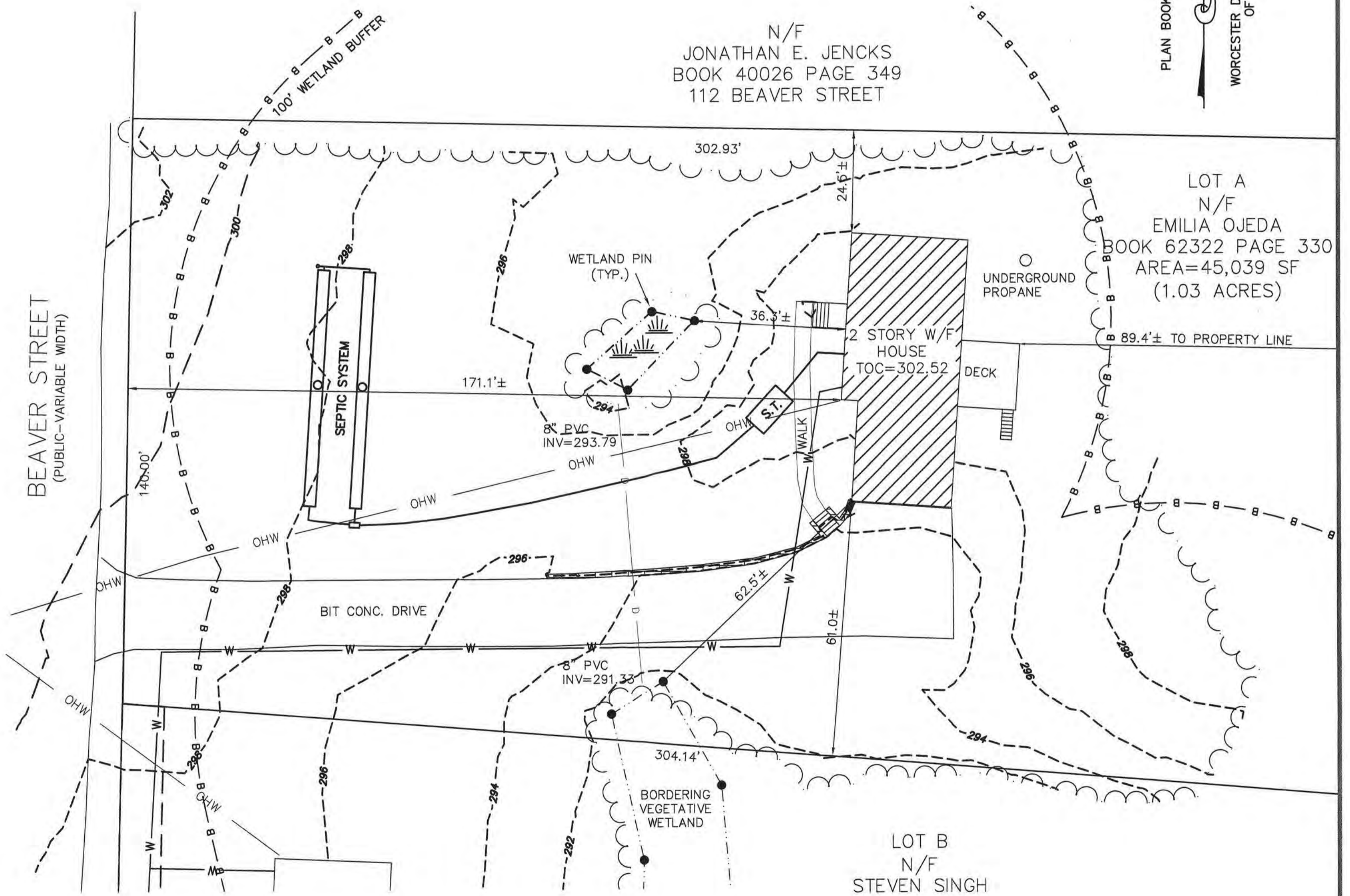


BEAVER STREET
(PUBLIC-VARIABLE WIDTH)

N/F
JONATHAN E. JENCKS
BOOK 40026 PAGE 349
112 BEAVER STREET

LOT A
N/F
EMILIA OJEDA
BOOK 62322 PAGE 330
AREA=45,039 SF
(1.03 ACRES)

LOT B
N/F
STEVEN SINGH
&
LAKHBIR BAINS
BOOK 63118 PAGE 96
AREA=83,506 SF
(1.92 ACRES)



G:\C3DMilford\G-10110\DWG\G-10110 ASB LOTS_recover.dwg



Guerriere & Halnon, Inc.

ENGINEERING & LAND SURVEYING

333 WEST STREET PH. (508) 473-6630
MILFORD, MA 01757 FX. (508) 473-8243
www.gandhengineering.com

I CERTIFY THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE PLANS AND CONDITIONS SET FORTH IN THE ORDER OF CONDITIONS FOR DEP FILE NO. 223-1157.



DATE: 11-12-20

APPLICANT

D&F AFONSO BUILDERS, INC
189 MAIN STREET
MILFORD, MA 01757

00/11/11/20	INITIAL SUBMITTAL	JDF

AS-BUILT
PLAN OF LAND
114 BEAVER STREET
IN
MILFORD, MA
SCALE: 20 FEET TO AN INCH
DATE: NOVEMBER 11, 2020

Agenda Item # 10



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Michael Giampietro, Chairman – Conservation Commission
FROM: Michael Dean, P.E. *MD*
DATE: November 16, 2020
SUBJECT: 116 Beaver Street (Lot B)- Request for a Certificate of Compliance
DEP File # 223-1158

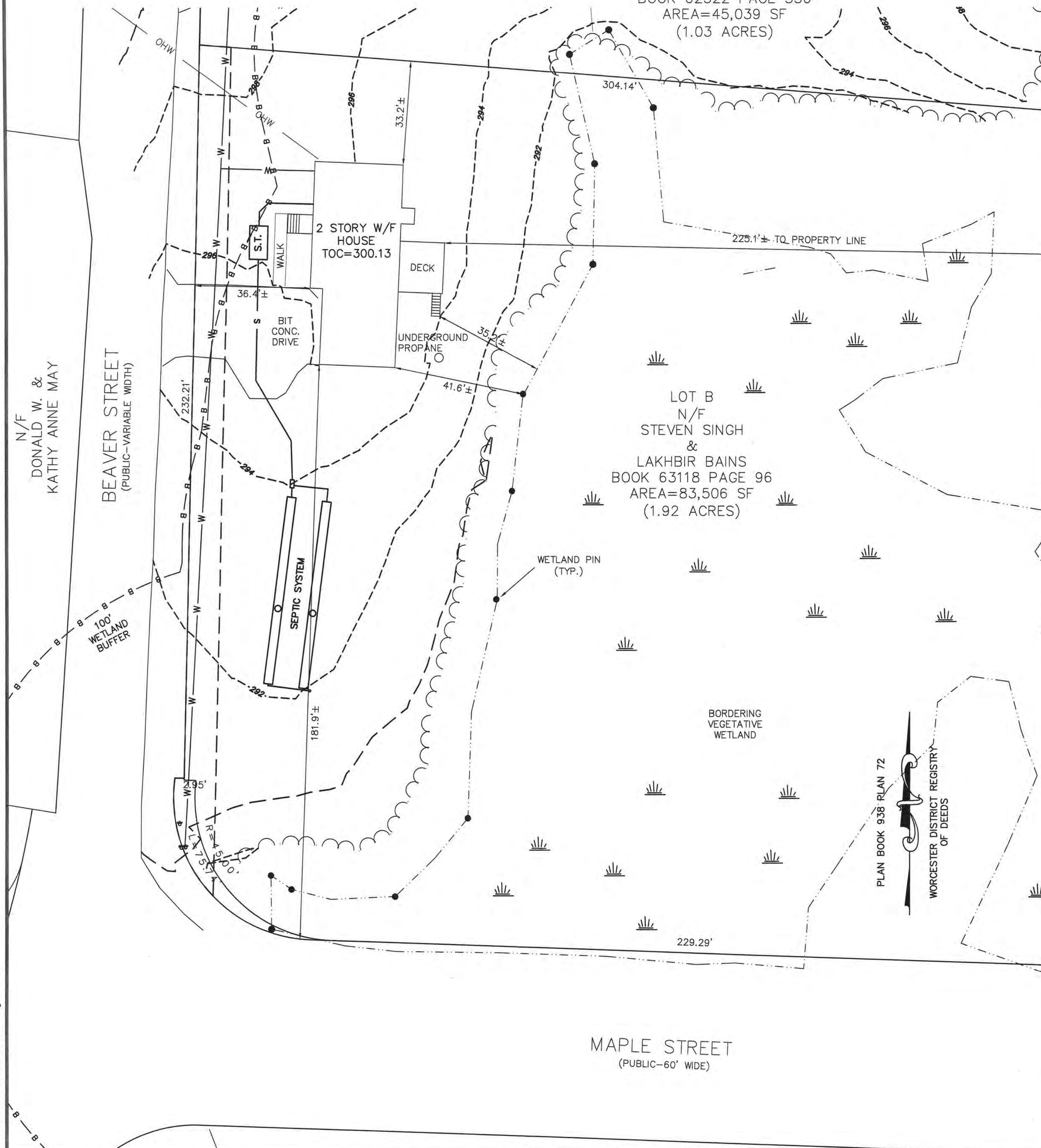
The following information is in reference to a Request for a Certificate of Compliance for 116 Beaver Street (Lot B). The Applicant is F&D Central Realty Corporation, 189 Main Street, Milford, MA 01757.

Following a review of the submitted documents and a site inspection, I recommend the issuance of a Certificate of Compliance for D.E.P. File # 223-1158.

NOT A RECORD PLAN - OFFSETS ARE NOT FOR THE REPRODUCTION OF PROPERTY LINES.

LOT A
N/F
EMILIA OJEDA
BOOK 62322 PAGE 330
AREA=45,039 SF
(1.03 ACRES)

LOT B
N/F
STEVEN SINGH
&
LAKHBIR BAINS
BOOK 63118 PAGE 96
AREA=83,506 SF
(1.92 ACRES)



G:\CSDMiford\G-10110\DWG\G-10110 ASB LOTS_recover.dwg



Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING

333 WEST STREET PH. (508) 473-6630
MILFORD, MA 01757 FX. (508) 473-8243
www.gandhengineering.com

I CERTIFY THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE PLANS AND CONDITIONS SET FORTH IN THE ORDER OF CONDITIONS FOR DEP FILE NO. 223-1158.



DATE: 11-12-20

APPLICANT		
D&F AFONSO BUILDERS, INC 189 MAIN STREET MILFORD, MA 01757		
00 11/11/20	INITIAL SUBMITTAL	JDF

AS-BUILT
PLAN OF LAND
116 BEAVER STREET
IN
MILFORD, MA
SCALE: 20 FEET TO AN INCH
DATE: NOVEMBER 11, 2020

LOT B G-10110

Agenda Item # 11



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 16, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: Request for **Certificate of Compliance**, 54 Field Pond Road (Lot 29)
DEP File # 223- 1118

Dear Mr. Giampietro:

I have reviewed the request for a Certificate of Compliance for 54 Field Pond Road (Lot 29), a lot within the Sanylah Crossing Subdivision.

I recommend that the Commission issue the Certificate of Compliance.

Sincerely,

Michael Dean, P.E.
Town Engineer

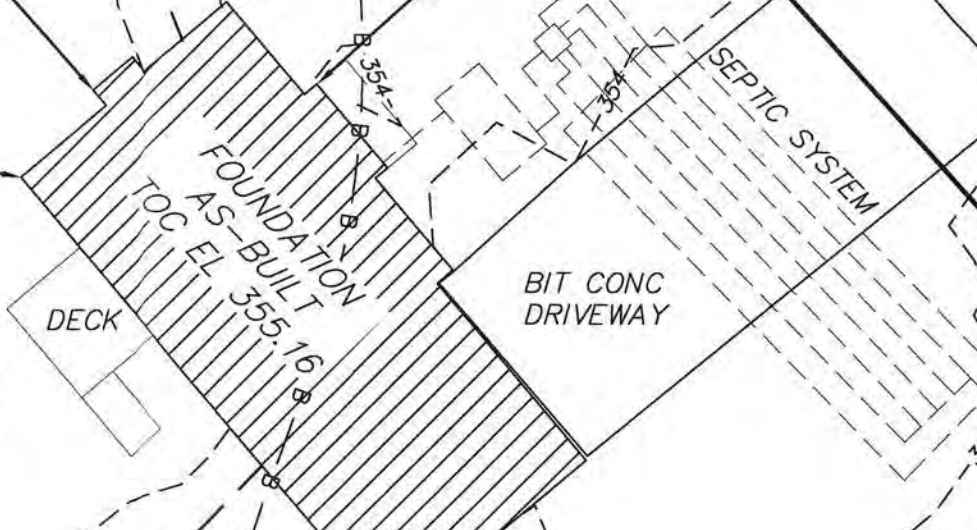
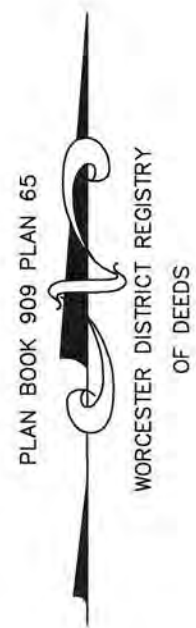
LOT 18
N/F
SANYLAH CROSSING LLC
DEED BOOK 52813
PAGE 127

TEMPORARY CONSTRUCTION
EASEMENT
PLAN BOOK 909 PLAN 65

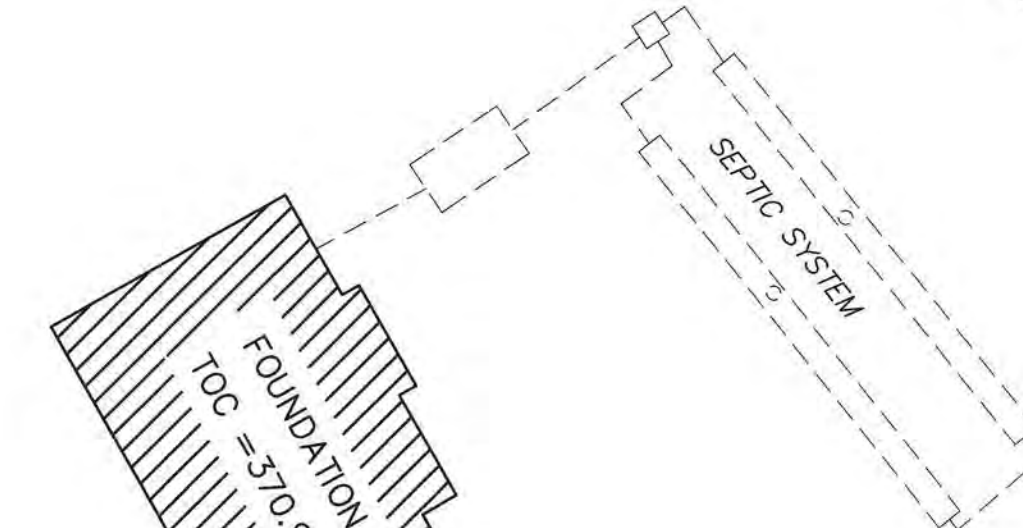
FIELD POND ROAD
(PRIVATE ~ 50 FT WIDE)

LOT 30
N/F
SANYLAH CROSSING LLC
DEED BOOK 52813
PAGE 127

TEMPORARY CONSTRUCTION
EASEMENT
PLAN BOOK 909 PLAN 65



LOT 28
N/F
BEERA
DEED BOOK 60215
PAGE 302



LOT 29
N/F
SANYLAH CROSSING LLC
DEED BOOK 52813
PAGE 127
AREA=48,798 SF

GRADING EASEMENT
PLAN BOOK 934 PLAN 103

290.8± TO PROPERTY LINE

WETLAND, PN (TYP.)

BORDERING VEGETATIVE WETLANDS

G:\C3DMilford\G-9353\DWG\G-9353-69715 ASB LOTS.dwg



Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
333 WEST STREET PH. (508) 473-6630
MILFORD, MA 01757 FX. (508) 473-8243
www.gandhengineering.com

DATE: 11/12/20
I HEREBY CERTIFY TO THE MILFORD
CONSERVATION COMMISSION THAT THE WORK
SHOWN HEREON IS COMPLETE AND IS
SUBSTANTIALLY IN COMPLIANCE WITH THE ORDER
OF CONDITIONS D.E.P. FILE #223-1118."

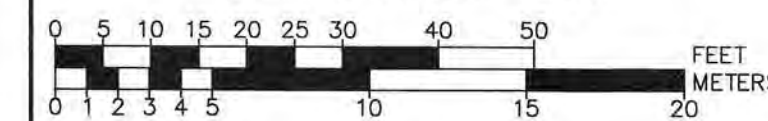


PROFESSIONAL ENGINEER

PARCEL ID: 24-153-29

OWNER:
SANYLAH CROSSING, LLC
BOOK 52813 PAGE 127

GRAPHIC SCALE: 1"=20'



AS-BUILT
PLAN OF LAND
54 FIELD POND ROAD
IN
MILFORD, MA
SCALE: 20 FEET TO AN INCH
DATE: NOVEMBER 11, 2020

Agenda Item # 12

(To be continued)

Agenda Item # 13



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 10, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: Ariana Estates – 11 & 13 Ariana Circle (Lot 2)
Notice of Intent for an Individual Lot

Dear Mr. Giampietro:

The submittal is a Notice of Intent for 11 & 13 Ariana Circle, an individual lot of Ariana Estates Residential Subdivision. The Applicant is Claro Construction Corp., 81 Camp Street, Milford, MA 01757.

The site consists of 18,005 SF of land, Zoned as General Residential (RA). The parcel refers to the Town Assessors Map 52, Block 293, Lot 2.

This project / Lot has already been in front of the commission at the last meeting on October 21, 2020. The hearing was opened and discussions took place between the commission, applicants representative and abutters. During the meeting the commission had raised some concerns and asked for additional information, specifically, the existing elevations of the brook and elevations of the abutting land on the south side of the brook. The commission then asked the Town Engineer to research any existing files / plans that may contain the above referenced information.

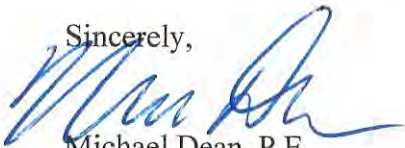
I have reviewed the files and found a filing for a pool installation at 7 Carven Road, the plans have no topography or spot elevations, as this filing was simply to convert a lawn area into an inground pool area. The Town's GIS shows the abutting land at an approximate elevation of 270, see the attached Exhibit.

Following a review of the submitted documents I offer the following:

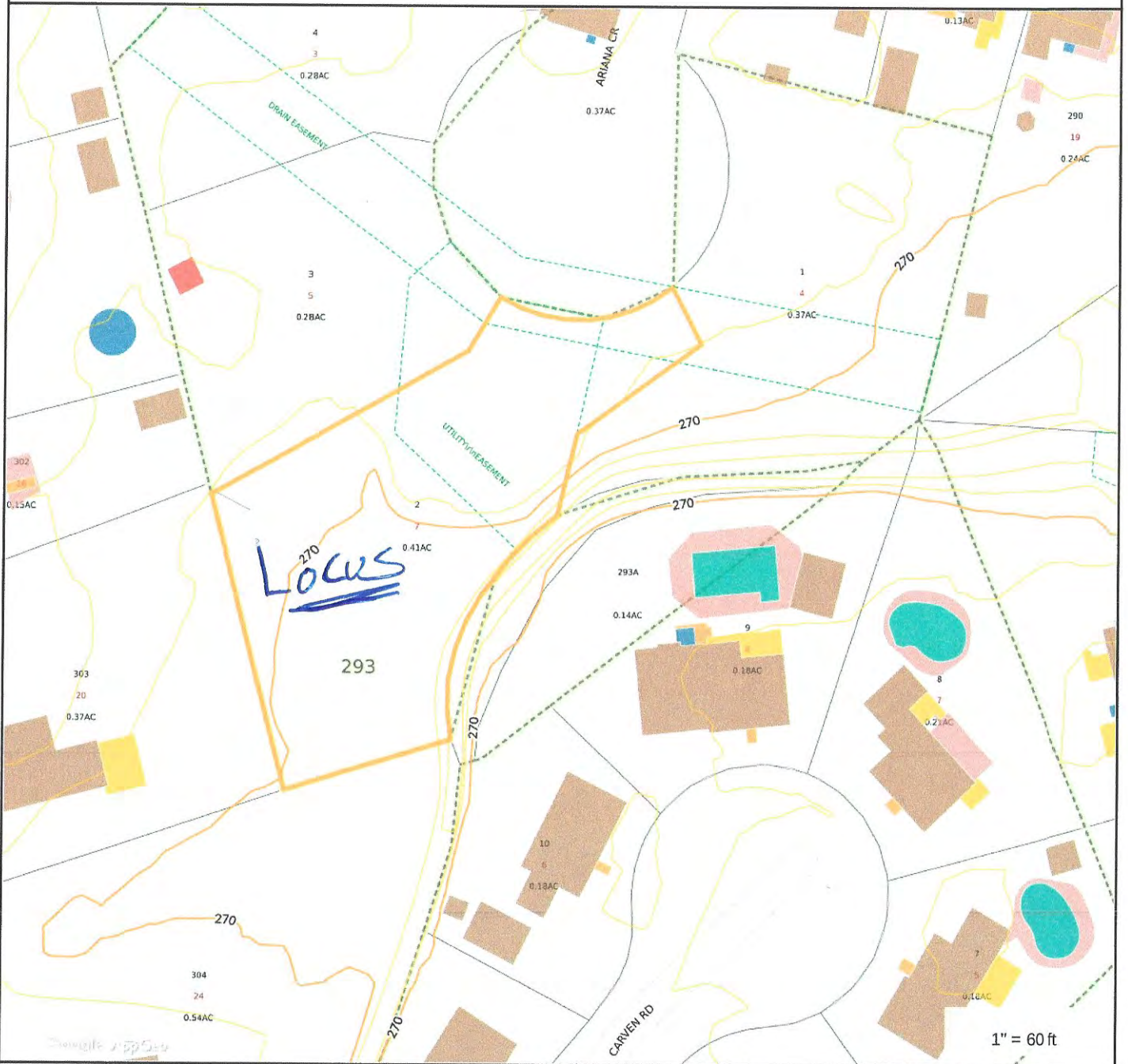
- The submitted plans (and previous subdivision plans) show some level of detail of the brook and what appears to be boulders along the edge of said brook. This detail work may possibly contain the information pertaining to the above referenced request by the commission (existing elevations of the brook and elevations of the abutting land on the south side of the brook). There may be a possibility that the original survey has the spot elevations of such detail work, this should be further researched and the elevations should be provided per the commission's request.
- The plans show a proposed driveway over the existing underground detention basin. The applicants engineer shall provide a detail of the **existing** basin with the proposed driveway and certify the **existing** underground basin is built to accommodate traffic loading (H-20). The detail should include items such as the type of the existing chambers, model number, the amount of crushed stone, amount of cover materials and type, etc.

The above items should be addressed prior to approval.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Michael Dean', is written over the typed name.

Michael Dean, P.E.
Town Engineer



Property Information
Property ID 52-293-2
Location 7 ARIANA CIR
Owner LILY BEAN LLC &



**MAP FOR REFERENCE ONLY
 NOT A LEGAL DOCUMENT**

Town of Milford, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated March 2018
 Data updated 11/16/2019

LEGEND

Table with columns for EXISTING and PROPOSED symbols and their corresponding descriptions for various utilities, structures, and site features.

ABBREVIATIONS

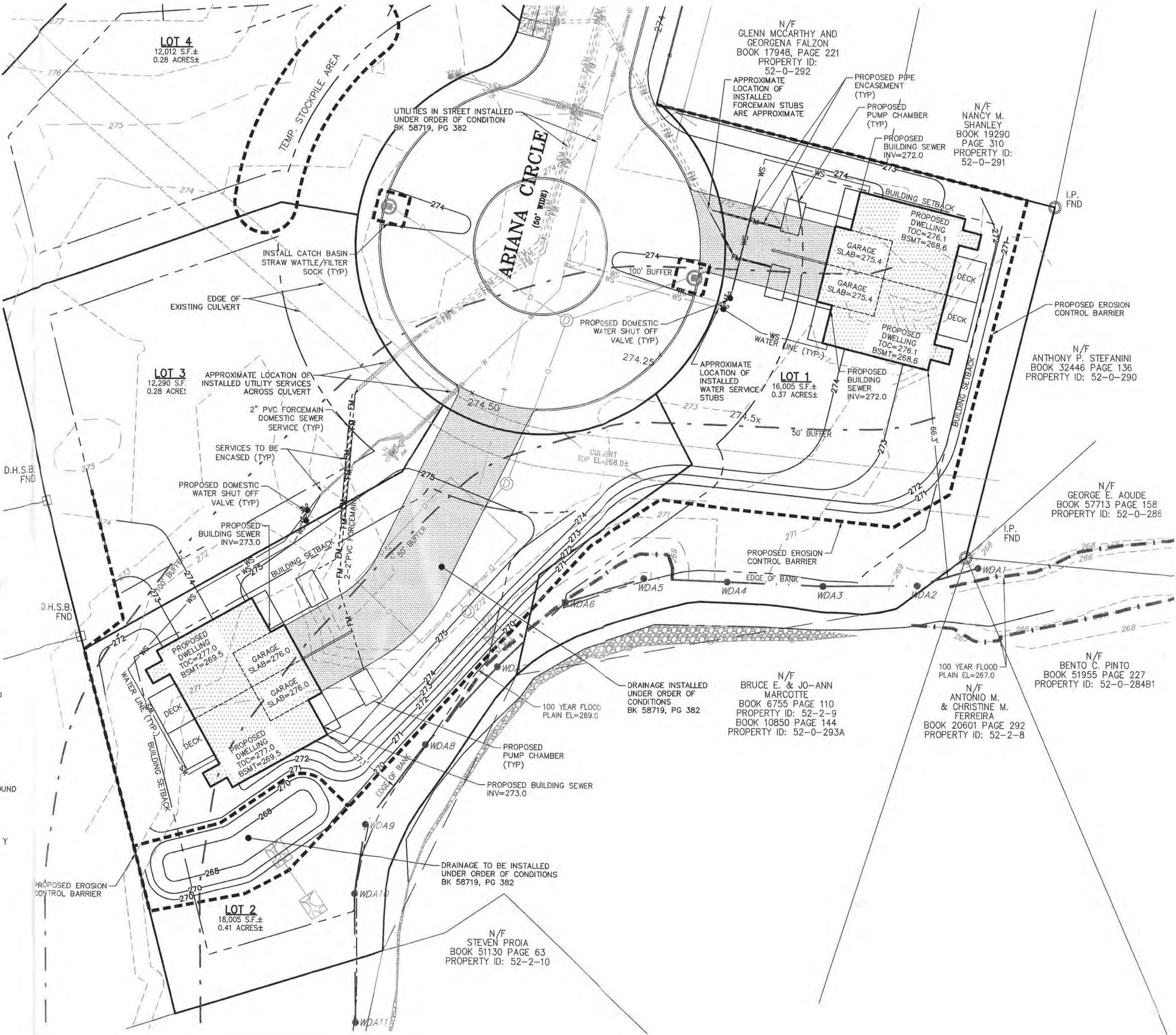
Table listing abbreviations used throughout the plan, such as AASHTO, ADA, ASTM, etc., and their full names.

GENERAL NOTES:

- List of 18 general notes providing instructions and clarifications for the contractor regarding utility work, construction methods, and site conditions.

REGULATORY NOTES:

- List of 5 regulatory notes detailing requirements for utility marking, permit acquisition, and construction standards.



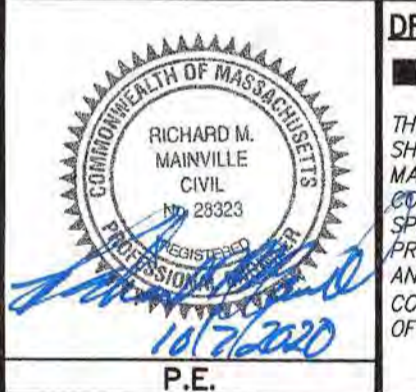
Andrews Survey & Engineering, Inc. Land Surveying - Civil Engineering - Site Planning

OWNER OF RECORD: LILY BEAN LLC & CLARO CONSTRUCTION CORP

MILFORD ASSESSORS INFORMATION: MAP 20, PARCEL 293-1 & PARCEL 293-2

PLAN REFERENCES: 1. DEFINITIVE PLAN OF LAND, ARIANA ESTATES, MILFORD, MA...

OTHER REFERENCES: 1. ORDER OF CONDITIONS ISSUED: 4/20/2018, RECORD AT THE WORCESTER REGISTRY OF DEEDS...



DRAWING ISSUED FOR: PERMIT. THIS PLAN IS INTENDED TO SHOW CONSTRUCTABILITY AND MAY NOT SHOW ALL CONSTRUCTION DETAILS...

REVISIONS table with columns for NO., DATE, and DESCRIPTION.

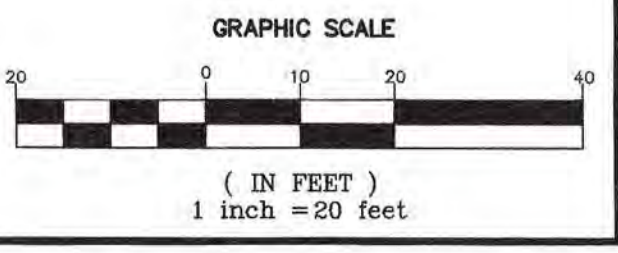
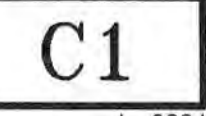
SHEET TITLE

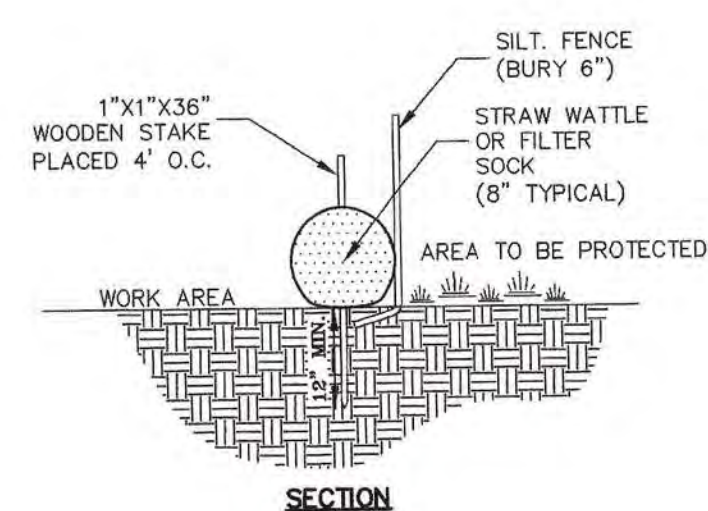
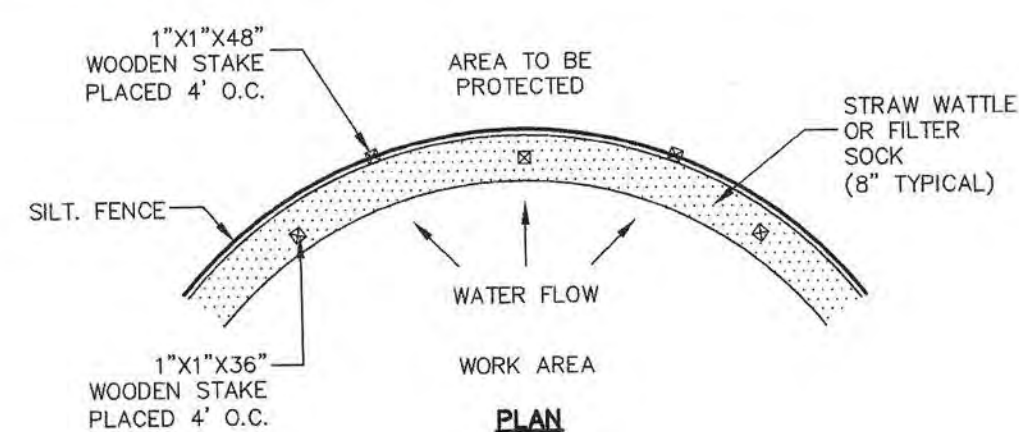
CONSERVATION PLAN FOR LOT 1 & LOT 2 ARIANA CIRCLE

PROJECT: ARIANA ESTATES NOTICE OF INTENT ARIANA CIRCLE MILFORD, MA 01757

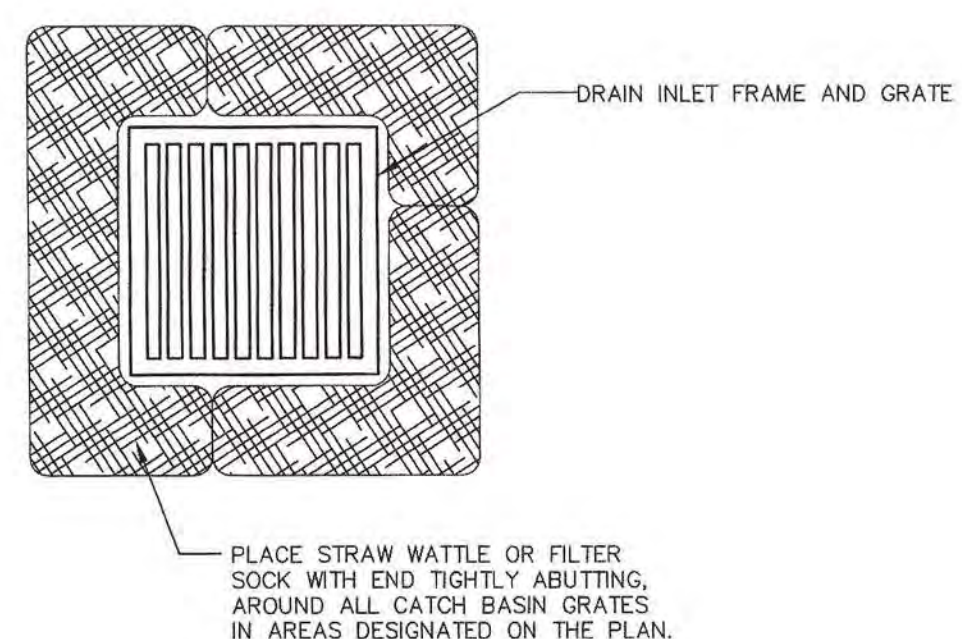
OWNER/APPLICANT: CLARO CONSTRUCTION CORP. 81 CAMP STREET MILFORD, MA 01757

DES BY: KNL DATE: OCTOBER 7, 2020 CHK BY: RMM PROJECT NO. 2019-293



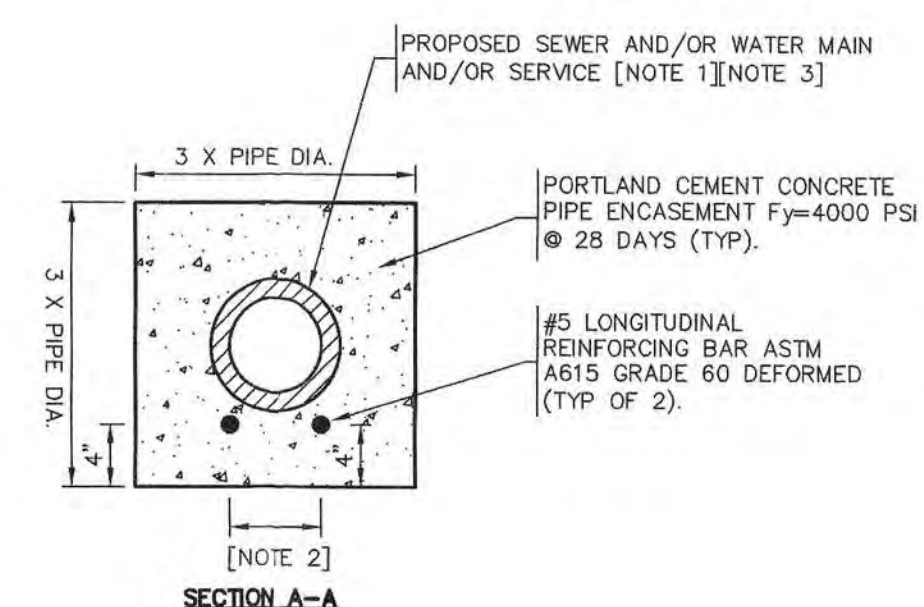
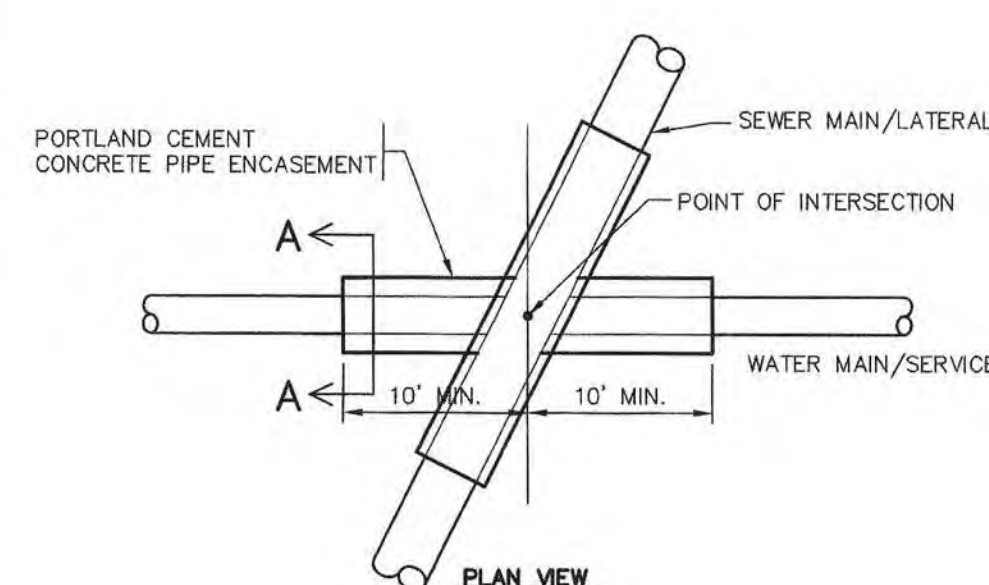


1 **EROSION CONTROL BARRIER (ECB)**
SCALE: N.T.S.



2 **CATCH BASIN STRAW WATTLE/FILTER SOCK**
SCALE: N.T.S.

NOTES:
[1] CONCRETE PIPE ENCASEMENT TO EXTEND 10 FT ALONG SEWER LINE AND WATER LINE FROM POINT OF INTERSECTION.
[2] DISTANCE EQUAL TO PIPE DIAMETER.
[3] CONCRETE PIPE ENCASEMENT REQUIRED WHENEVER PROPOSED SEWER MAIN/LATERAL IS WITHIN 10' OF PROPOSED WATER MAIN/SERVICE.



3 **PIPE ENCASEMENT**
SCALE: N.T.S.

F:\ACAD\2019 PROJECTS\2019-293\DWG\PERMIT\SITE.DWG 10-05-20 11:43:07 AM - LAYOUT CD

DRAWING ISSUED FOR:
 PERMIT

THIS PLAN IS INTENDED TO SHOW CONSTRUCTABILITY AND MAY NOT SHOW ALL CONSTRUCTION DETAILS AND SPECIFICATIONS FOR THE PROPOSED IMPROVEMENTS, AND MAY NOT IDENTIFY ALL CONSTRUCTION ITEMS/AREAS OF CONTRACTOR JURISDICTION.

P.E.

REVISIONS		
NO.	DATE	DESCRIPTION

SHEET TITLE

CONSTRUCTION DETAILS

PROJECT:
 ARIANA ESTATES
 NOTICE OF INTENT
 ARIANA CIRCLE
 MILFORD, MA 01757

OWNER/APPLICANT:
 CLARO CONSTRUCTION
 CORP.
 81 CAMP STREET
 MILFORD, MA 01757

DES BY: KNL DATE: OCTOBER 7, 2020
 CHK BY: RMM PROJECT NO. 2019-293

Agenda Item # 14



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 12, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: 125 Fortune Boulevard – Nitto Denko AVECIA, Inc.
Notice of Intent – Facility Expansion

Dear Mr. Giampietro:

Following my letter dated November 12, 2020, the plans have been revised and all of my concerns have been addressed.

I recommend the issuance of an Order of Conditions.

Sincerely,

Michael Dean, P.E.
Town Engineer



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 12, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: 125 Fortune Boulevard – Nitto Denko Avecia, Inc.
Notice of Intent – Facility Expansion

Dear Mr. Giampietro:

The submittal is a Notice of Intent for an expansion to the existing manufacturing facility at 125 Fortune Boulevard. The applicant is Nitto Denko Avecia, Inc., 155 Fortune Boulevard, Milford, MA. The site consists of a 15.28 Acre parcel of land Zoned Highway Industrial B (IB), Assessors Map 28, Block 98, Lot 4.

The proposed project consists of a 50,000 SF addition, a covered tank farm and loading area, both located in the southern portion of the site (rear portion).

Following a review of the submitted documents I have been in contact with the applicant's engineers and several items have already been addressed and the plans have been revised to address the concerns.

Items already discussed and addressed:

1. The drainage analysis (utilizing HydroCAD Software) has been revised using a Type – III storm event, the applicants engineer also adjusted some of the post drainage areas, per my request. The drainage design has been revised as needed. **These items are completed.**

2. The outlet from the proposed detention basin has been redesigned to direct flows towards the existing wetland / drainage system located in the eastern portion of the site. This is consistent with the drainage analysis for the overall industrial park / development "Quarry Square". **These items are completed.**

The last remaining item that should be addressed is:

3. The erosion control detail should be changed to also include **Silt Fence with the Mulch Sock.**

I have worked with the applicant's engineers to address my concerns, item number 3 above should be addressed, I recommend the issuance of an order of conditions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michael Dean".

Michael Dean, P.E.
Town Engineer

November 16, 2020
Revised November 17, 2020

Michael Dean, P.E., Town Engineer
Town of Milford
52 Main Street
Milford, MA 01757

Re: **Response to Comments**
125 Fortune Boulevard
MassDEP File No. CE 223-1183
(Pare Project No. 20115.00)

NOTICE OF INTENT REVIEW RESPONSES TO COMMENTS

RESPONSES TO TOWN ENGINEER'S REPORT DATED NOVEMBER 12, 2020:

- COMMENT:** The drainage analysis (utilizing HydroCAD Software) has been revised using a Type III storm event, the applicants engineer also adjusted some of the post drainage areas, per my request. The drainage design has been revised as needed. **These items are completed.**

RESPONSE: *Noted.*
- COMMENT:** The outlet from the proposed detention basin has been redesigned to direct flows towards the existing wetland / drainage system located in the eastern portion of the site. This is consistent with the drainage analysis for the overall industrial park / development "Quarry Square." **These items are completed.**

RESPONSE: *Noted.*
- COMMENT:** The erosion control detail should be changed to also include silt fence with the mulch sock.

RESPONSE: *The erosion control detail on Sheet C-601 Civil Details 1 has been revised to include silt fence with the compost filter sock.*





RESPONSES TO MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
COMMENTS E-MAILED ON NOVEMBER 12, 2020:

1. **COMMENT:** In regards to the southern part of the detention basin, a significant excavation of up to 13 feet appears to be proposed, the applicant should provide additional information that construction of the basin will not intercept bedrock/groundwater in this area as TP-2 is not well centered.

RESPONSE: *According to the data collected for TP-2, there was no well-defined redox observed that would be indicative of the estimated seasonal high groundwater (ESHGW), therefore the ESHGW was determined to be at the bottom of the pit at elevation 330.0, which is 4.0 feet below the bottom of the detention basin. Note #4 on the test pit log says that there was possible redox observed at 44" deep (elevation 332.3) which is consistent with the depth of redox observed in test pits TP-1 and TP-3 in the surrounding area. If this were the elevation of the ESHGW there would still be 1.7 feet of separation below the bottom of the detention basin. Therefore, even with the most conservative estimate, the bottom of the detention basin is still above the ESHGW table. Bedrock was encountered in TP-2 at elevation 330.0, or 4.0 feet below the bottom of basin. It is expected that bedrock will be excavated on the southern side of the basin into the rocky knoll which is not expected to have groundwater higher than the elevation observed in the surrounding test pits based on the characteristics of this feature.*

2. **COMMENT:** Additional proposed contours are needed in the area north of the detention basin to demonstrate proposed grade and how that area will drain

RESPONSE: *The proposed grading is designed to maintain as much natural vegetation as possible. Minor revisions to the proposed grading north of the detention basin have been made to allow the area to drain with a minimum 2% slope from the existing 341.0 contour at the tree line to the 339.0 contour at the top of the bank of the detention basin.*

3. **COMMENT:** Applicant should confirm that the stormwater system can be isolated from the tank farm in the event of a tank failure, clarify if there is a turn-off valve, and consider lining the detention basin as a redundant protective measure.

RESPONSE: *The tanks in the tank farm are single-walled and the tank farm itself is recessed and surrounded by a concrete wall designed as a containment area that is sized to store 110% of the volume of the largest tank, plus 20 minutes of deluge fire water collection. Any incidental rainwater in the potentially contaminated area of truck unloading and tank farm will be collected and pumped into one of the waste tanks for off-site disposal at a licensed facility. Therefore, if a tank failure occurred, any spillage would be contained until properly disposed off-site and would not enter the detention basin.*



Michael Dean, P.E., Town Engineer

(3)

November 17, 2020

Pare has prepared a revised plan set incorporating comments with a revision date of November 16, 2020. Should you have any other questions related to this matter, please feel free to contact me.

Sincerely,

Jenna R. Rioux, P.E.
Project Engineer

DLP/JHR/dp

CC: Kimberly Roth - Massachusetts Department of Environmental Protection

Z:\JOBS\20 Jobs\20115.00 Avecia-125 Fortune Blvd Bldg Expansion-MA\CORRESP\RTC\2020-11-16 RTC MassDEP.doc

Project America

Assessor's Map 28 Block 98 Lot 4

125 Fortune Boulevard

Milford, Massachusetts

OWNER/APPLICANT:



Nitto Denko Avecia, Inc.
125 Fortune Boulevard
Milford, MA
(508) 532-2678

CIVIL ENGINEER:



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

MEP ENGINEER:



959 CONCORD STREET, FRAMINGHAM, MA 01701
Phone: (508) 532-6760 Fax: (508) 532-6765
www.dpsgroupglobal.com

ARCHITECT:



1232 Chancellor Street
Philadelphia, PA
(215) 985-0400

SURVEYOR:



120 Front Street
Suite 500
Worcester, MA
(508) 513-2719



SCALE: N.T.S.

INDEX OF DRAWINGS

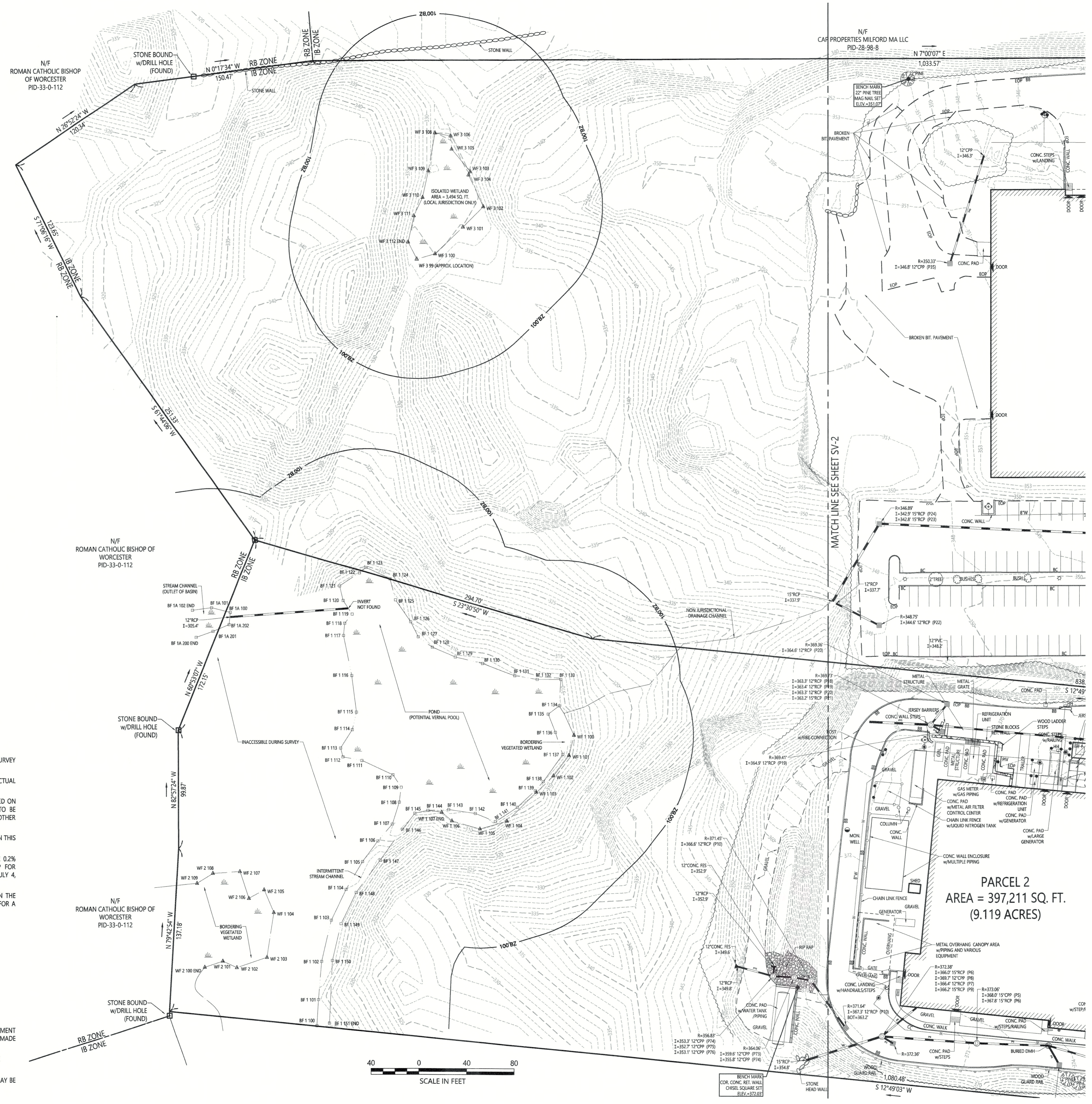
SHEET No.	DRAWING No.	DESCRIPTION
-	-	COVER SHEET
1 - 2	Sv-1 - Sv-2	EXISTING CONDITIONS PLAN OF LAND 1 - 2
3	C-101	CIVIL NOTES & LEGEND
4	C-102	OVERALL PLAN
5 - 7	C-201 - 203	DEMOLITION, EROSION & SEDIMENT CONTROL PLAN 1 - 3
8 - 10	C-301 - 303	GENERAL PLAN 1 - 3
11 - 13	C-401 - 403	GRADING PLAN 1 - 3
14 - 16	C-501 - 503	DRAINAGE & UTILITY PLAN 1 - 3
17 - 21	C-601 - 605	CIVIL DETAILS 1 - 5

AMENDED SITE PLAN SUBMISSION
SEPTEMBER 30, 2020
REVISED OCTOBER 20, 2020
REVISED NOVEMBER 16, 2020

APPROVED BY THE PLANNING BOARD:	
PLANNING BOARD, CHAIR TOWN OF MILFORD	DATE



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



- Legend**
- ⊕ DRAIN MANHOLE
 - ⊕ CATCH BASIN
 - ⊕ SEWER MANHOLE
 - ⊕ ELECTRIC MANHOLE
 - ⊕ TELEPHONE MANHOLE
 - ⊕ MANHOLE
 - ⊕ HAND HOLE
 - ⊕ WATER GATE
 - ⊕ FIRE HYDRANT
 - ⊕ GAS GATE
 - ⊕ BOLLARD w/LIGHT
 - ⊕ STREET SIGN
 - ⊕ LIGHT POLE
 - ⊕ UTILITY POLE
 - ⊕ GUY POLE
 - ⊕ GUY WIRE
 - ⊕ MONITORING WELL
 - ⊕ FLOOD LIGHT
 - ⊕ WELL
 - ⊕ MARSH
 - ⊕ F.F.E.=45.27'
 - FINISHED FLOOR ELEVATION
 - CNO COULD NOT OPEN
 - NPV NO PIPES VISIBLE
 - DYL DOUBLE YELLOW LINE
 - DWL DASHED WHITE LINE
 - SYL SINGLE YELLOW LINE
 - LSA LANDSCAPED AREA
 - EDGE OF PAVEMENT
 - CONCRETE CURB
 - VERTICAL GRANITE CURB
 - SLOPED GRANITE EDGE
 - BITUMINOUS BERM
 - BITUMINOUS CURB
 - GUARD RAIL
 - CHAIN LINK FENCE
 - DRAINAGE LINE
 - SEWER LINE
 - OVERHEAD WIRE
 - UNDERGROUND ELECTRIC
 - TELEPHONE LINE
 - GAS LINE
 - WATER LINE
 - STONE WALL
 - TREE LINE
 - 100'BT 100-FT BUFFER ZONE
 - 100'RA 100-FT RIVER FRONT AREA
 - 200'RA 200-FT RIVER FRONT AREA
 - LIMIT MEAN ANNUAL HIGH WATER
 - LIMIT OF BANK
 - BF1-100
 - WF1-100 VEGETATED WETLAND BOUNDARY

General Notes

- 1) THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN MARCH, 2020 AND FROM DEEDS AND PLANS OF RECORD.
- 2) THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB, INC. IN MARCH, 2020.
- 3) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY ARE NOT WARRANTED TO BE EXACTLY LOCATED NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
- 4) HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983. ELEVATIONS SHOWN ON THIS PLAN REFER TO NAVD OF 1988.
- 5) BOTH PARCELS LIE ENTIRELY WITHIN ZONE X (UNSHADED) (AREAS TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR WORCESTER COUNTY, MASSACHUSETTS, MAP NUMBER 25017C0867E, EFFECTIVE DATE JULY 4, 2011.
- 6) THE LOT LIES ENTIRELY WITHIN THE HIGHWAY INDUSTRIAL DISTRICT (IB) AS SHOWN ON THE 'ZONING DISTRICT MAP OF MILFORD, MASSACHUSETTS'. DIMENSIONAL REQUIREMENTS FOR A (IB) AT THE TIME OF THIS SURVEY ARE:

	REQUIRED
MINIMUM LOT AREA	80,000 S.F.
MINIMUM FRONTAGE	230 FEET
MINIMUM FRONT YARD SETBACK	50 FEET
MINIMUM SIDE YARD SETBACK	25 FEET
MINIMUM REAR YARD SETBACK	30 FEET
MAXIMUM BUILDING HEIGHT	60 FEET
- 7) THE WETLANDS SHOWN ON THIS PLAN WERE FLAGGED BY VHB ENVIRONMENTAL DEPARTMENT AND FIELD SURVEYED BY VHB IN MARCH, 2020. THE WETLANDS ALSO REFLECT COMMENTS MADE IN A MEMO DATED 9-11-2020 BY PARE CORP.
- 8) THE TREE SYMBOL OUTLINE SHOWN ON THIS PLAN DOES NOT REPRESENT THE ACTUAL TREE CANOPY.
- 9) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND MAY BE SUBJECT TO ADDITIONAL INFORMATION DISCLOSED IN SUCH.

Avecia
125 - 155 Fortune Boulevard
Milford, Massachusetts

No.	Revision	Date	Appr.
1	ADDRESS PARE CORP.'S 9/11/20 COMMENTS	9/24/2020	

Designed by _____ Checked by _____
Issued for _____ Date **March 31, 2020**

Existing Conditions
Plan of Land

Drawing Title: **Existing Conditions Plan of Land**

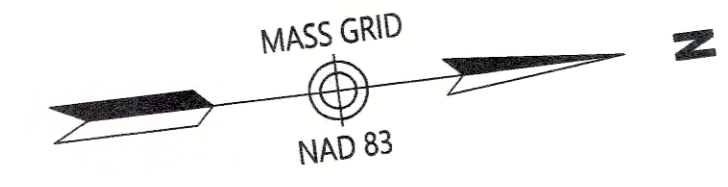
Drawing Number: _____

Sv-1

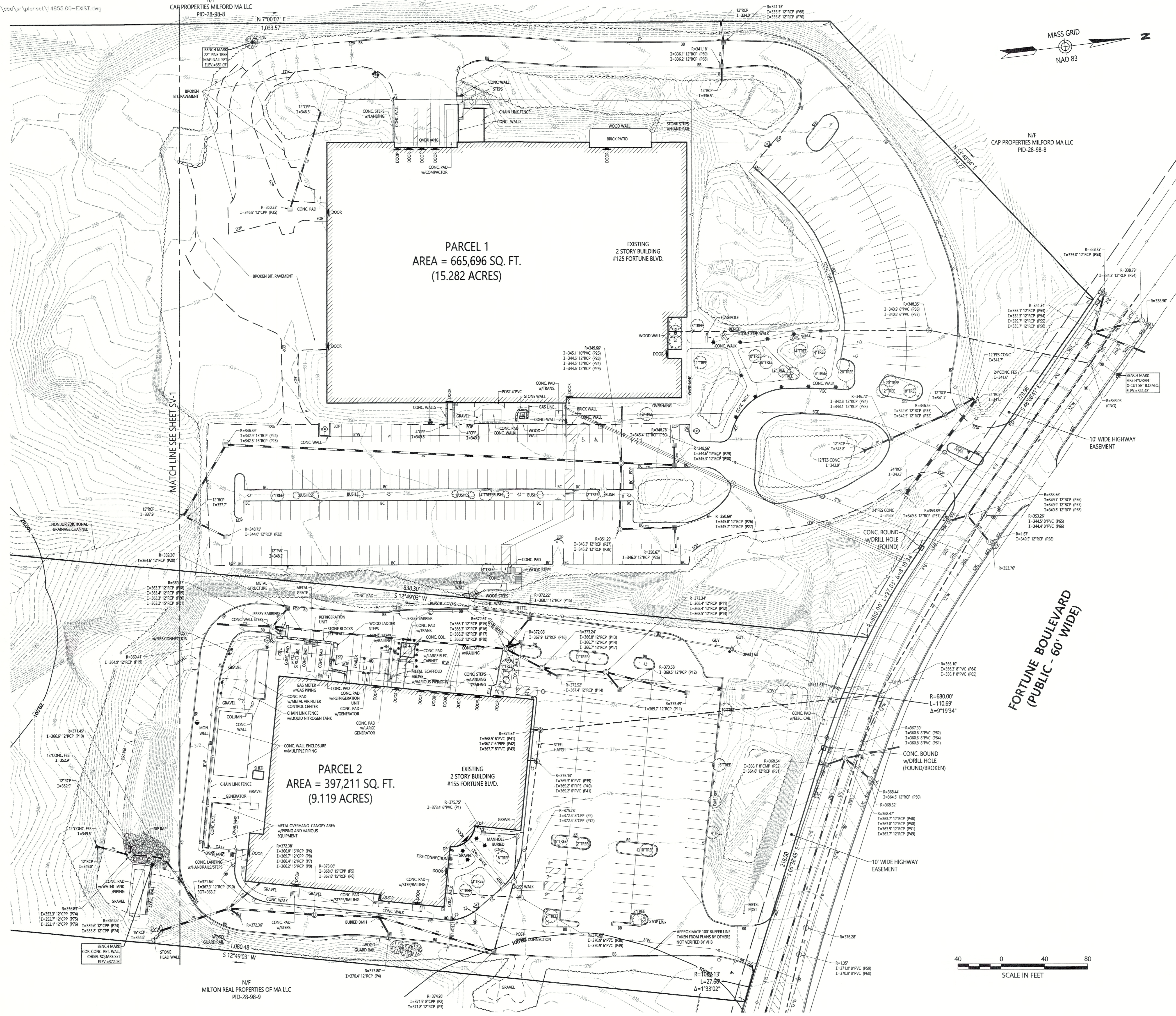
Sheet **1** of **2**

Project Number: **14855.00**

Russell J. Bousquet
9/28/2020



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



Legend

- ⊕ DRAIN MANHOLE
- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
- ⊕ ELECTRIC MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ MANHOLE
- ⊕ HAND HOLE
- ⊕ WATER GATE
- ⊕ FIRE HYDRANT
- ⊕ GAS GATE
- ⊕ BOLLARD w/LIGHT
- ⊕ STREET SIGN
- ⊕ LIGHT POLE
- ⊕ UTILITY POLE
- ⊕ GUY POLE
- ⊕ GUY WIRE
- ⊕ MONITORING WELL
- ⊕ FLOOD LIGHT
- ⊕ WELL
- ⊕ MARSH
- ⊕ F.F.E.=45.27'
FINISHED FLOOR ELEVATION
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- DYL DOUBLE YELLOW LINE
- DWL DASHED WHITE LINE
- SYL SINGLE YELLOW LINE
- LSA LANDSCAPED AREA
- EDGE OF PAVEMENT
- CONCRETE CURB
- VERTICAL GRANITE CURB
- SLOPED GRANITE EDGE
- BITUMINOUS BERM
- BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
- OVERHEAD WIRE
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- GAS LINE
- WATER LINE
- STONE WALL
- TREE LINE
- 100' BUFFER ZONE
- 100' RIVER FRONT AREA
- 200' RIVER FRONT AREA
- LIMIT MEAN ANNUAL HIGH WATER
- LIMIT OF BANK
- VEGETATED WETLAND BOUNDARY

Avecia

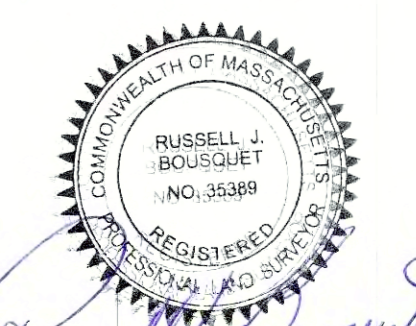
125 - 155 Fortune Boulevard
Milford, Massachusetts

No.	Revision	Date	App'd.
1	ADDRESS PARE CORP'S 9/15/20 COMMENTS	9/24/2020	

Designed By: _____ Checked By: _____
Issued for: _____ Date: **March 31, 2020**

**Existing Conditions
Plan of Land**

Drawing Title: Existing Conditions Plan of Land
Drawing Number: Sv-2



Russell J. Bougheit
9/28/2020

Sv-2

Sheet 2 of 2

Project Number: 14855.00

REFERENCE

- 1. PROJECT LOCATION: NITTO DENKO AVECIA INC. 125 FORTUNE BOULEVARD MILFORD, MA 01757
ASSESSOR'S MAP 28, LOT 4.
2. EXISTING CONDITIONS MAPPING TAKEN FROM PLAN ENTITLED "EXISTING CONDITIONS PLAN OF LAND" PREPARED BY VANASSE HANGEN BRUSTLIN, INC. (VHB), DATED MARCH 31, 2020.
3. WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED BY VHB ON FEBRUARY 11, 2020, AND REVIEWED AND LOCATED BY PARE CORPORATION ON JULY 23, 2020.

GENERAL NOTES

- 1. THE COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE CONSTRUCTION, 2020 EDITION OR LATEST REVISION, AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL MEET OR EXCEED THE MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, WITH LATEST REVISIONS. THE LATEST REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA FEDERAL, STATE, AND LOCAL REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL.
5. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER AND OWNER.
6. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
8. ALL SIGNS SHALL BE REFLECTORIZED TYPE III SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION.
9. ALL UTILITIES (LOCATION AND ELEVATION) DEPICTED SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ALL DAMAGE TO EXISTING UTILITIES OR STRUCTURES, AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. NO EXCAVATION SHALL BE DONE UNTIL COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.

LAYOUT NOTES

- 1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE RAMPS SHALL BE PER THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND CODE OF MASSACHUSETTS REGULATIONS (CMR) TITLE 521 OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK. THE CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
4. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB. DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB.
5. ALIGN WALKWAYS ON DOORWAYS THEY SERVE TO PROVIDE MINIMUM REQUIRED MANUEVERING CLEARANCE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND CODE OF MASSACHUSETTS REGULATIONS (CMR) TITLE 521 OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS.

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, AND UTILITY DRAWINGS.
2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
3. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.
4. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICES DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL OF THE OWNER.

GRADING AND UTILITY NOTES

- 1. UNDERGROUND UTILITIES DEPICTED WERE COMPILED FROM AVAILABLE RECORD PLANS AND SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DEPICTED OR NOT DEPICTED ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS TO REPAIR SUCH DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
2. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
3. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
4. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
6. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION SHALL BE PROVIDED ON A SKETCH TO SCALE OF THE EXISTING UTILITY WITH TIES TO KNOWN POINTS, PHOTOS AND FURNISHED TO THE ENGINEER FOR RESOLUTION.
7. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION.
8. GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
10. ALL GRAVITY SANITARY PIPING SHALL BE SDR-35 PVC. ALL SEWER CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE MILFORD SEWER DEPARTMENT.
11. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS MUST ADHERE TO THE MILFORD WATER COMPANY SPECIFICATIONS AND SHALL BE INSPECTED BEFORE, DURING, AND AFTER CONSTRUCTION PRIOR TO TAPPING THE SERVICE MAIN.
12. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
13. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
14. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS AND GRADING PLAN.

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION (CONTRACTOR'S RESPONSIBILITY)

- 1. THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
2. THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE ENGINEER AND THE TOWN OF MILFORD. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
3. ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.

POST CONSTRUCTION (OWNER'S RESPONSIBILITY)

- 1. TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER MANAGEMENT SYSTEM FACILITY (INCLUDING BUT NOT LIMITED TO CATCH BASINS, MANHOLES, INLET, OUTLET AND DIVERSION STRUCTURES, AND STORMWATER BEST MANAGEMENT PRACTICES (BMPs)) A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN THE SPRING AND FALL.
2. THE PARKING LOT AND ENTRY DRIVE SHALL BE SWEEP BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
3. ALL CLEANING AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEMS POST-CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS WITH SUMPS INSPECTION, MAINTENANCE, AND REPAIR NOTES

- 1. INSPECTIONS SHALL BE PERFORMED A MINIMUM OF TWO TIMES PER YEAR (SPRING/FALL). UNITS SHALL BE CLEANED ANNUALLY AND WHENEVER THE DEPTH OF SEDIMENT IS GREATER THAN OR EQUAL TO HALF THE SUMP DEPTH.
2. THE INLET GRATE SHALL NOT BE WELDED TO THE FRAME OR PAVED OVER SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.
3. CARE SHALL BE TAKEN TO AVOID DAMAGING AND DISPLACING HOODS PLACED ON HOODED OUTLETS DURING CLEANING.

EROSION AND SEDIMENTATION CONTROL NOTES - MASSACHUSETTS

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY'S (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL PREPARE AND SUBMIT AN ELECTRONIC NOTICE OF INTENT (eNOI) WITH THE EPA IN ACCORDANCE WITH THE NPDES PERMIT REQUIREMENTS PRIOR TO CONSTRUCTION.
4. SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.
5. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
6. REQUIRED PERIMETER CONTROL SHALL BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
7. AS FEASIBLE, CONSTRUCTION SHALL BE PHASED TO LIMIT THE AREA OF EXPOSED SOIL AND THE DURATION OF EXPOSURE. ALL DISTURBED AREAS SHALL BE TEMPORARILY AND/OR PERMANENTLY STABILIZED WITHIN 14 DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES.
8. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE EROSION CONTROL BARRIERS ARE INTACT.
10. CLEAN AND MAINTAIN SEDIMENTATION CONTROL BARRIERS WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE BARRIER. MATERIAL COLLECTED FROM THE SEDIMENTATION BARRIER SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
11. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
12. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
13. SOIL AND OTHER MATERIALS RESULTING FROM SITE CLEARING MAY BE RECYCLED AND/OR REUSED ON THE SITE AS APPROPRIATE. WASTE MATERIALS SHALL BE REMOVED FROM THE SITE.
14. CRUSHED STONE CONSTRUCTION ENTRANCES SHALL BE ESTABLISHED AT ALL POINTS OF INGRESS AND EGRESS.
15. TEMPORARY DIVERSIONS (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIP PILES, COIR LOGS, OR SIMILAR MATERIALS.
16. TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TS) SHALL BE SIZED BY THE CONTRACTOR USING THE PARAMETERS CONTAINED IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.
17. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
18. CATCH BASINS AND STORM DRAINS SHALL BE PROTECTED WITH HAY BALES OR SEDIMENT BAGS IN PAVED AREAS UNTIL CONTRIBUTING AREA IS PERMANENTLY STABILIZED.
19. DEWATERING WASTEWATER PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO A DEWATERING BASIN, HAY BALE CORRALS, OR SEDIMENTATION BAGS.
20. CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
21. RIPRAP OR OTHER ENERGY DISSIPATORS SHALL BE USED WHERE NECESSARY TO CONTROL EROSION.
22. ANY EQUIPMENT THAT IS NOT READILY MOBILE (TRACK MACHINERY) SHALL BE PARKED WITHIN THE PROJECT LIMIT OF DISTURBANCE. LARGE AND/OR BULKY MATERIALS SHALL BE STORED SUCH THAT THEY DO NOT INTERFERE WITH THE ONGOING CONSTRUCTION ACTIVITIES OR EROSION CONTROL MEASURES.
23. NEWLY VEGETATED AREAS SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE THE ESTABLISHMENT OF STABLE VEGETATED SURFACES.
24. THE CONTRACTOR SHALL NOT REMOVE ANY COMPOST FILTER SOCKS OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING AREA IS PERMANENTLY STABILIZED.
25. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF THE FINAL PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
26. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
27. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.

SEDIMENT FOREBAY INSPECTION, MAINTENANCE, AND REPAIR NOTES

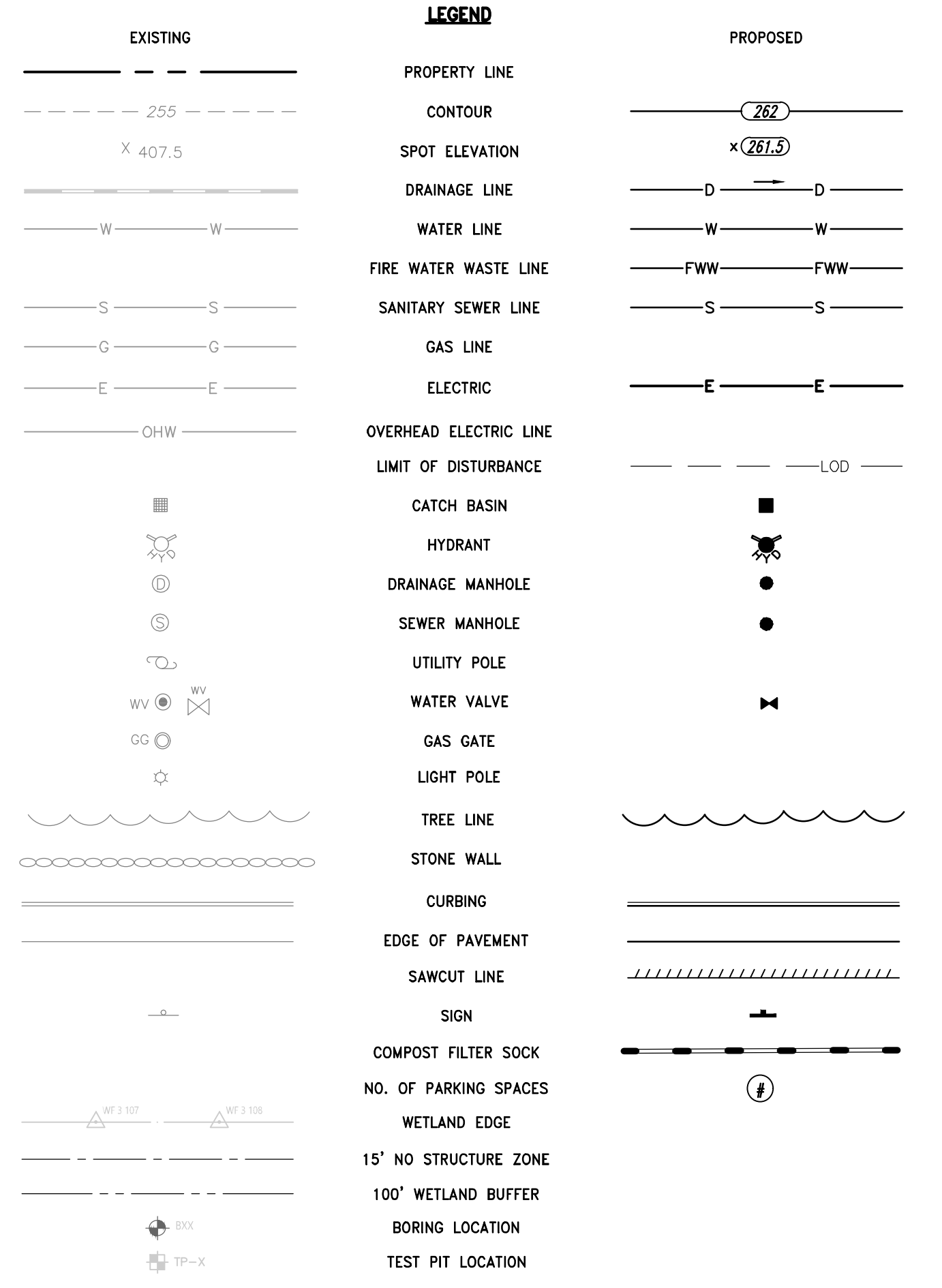
- FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.
1. SEDIMENT FOREBAY SHALL BE INSPECTED A MINIMUM OF TWO TIMES PER YEAR AND AFTER EVERY STORM OF 2.7" INCH OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. SEDIMENT FOREBAYS SHALL BE CLEANED IF SEDIMENT REACHES HALF THE DESIGN DEPTH.
3. SEDIMENT FOREBAY CHECK DAMS SHALL BE REPLACED IF DRAWDOWN TIMES WITHIN THE SEDIMENT FOREBAY EXCEED 48 HOURS FOLLOWING THE STORM EVENT.
4. ALL SEDIMENTS REMOVED SHALL BE DISPOSED OF AT AN APPROVED AND PERMITTED LOCATION.
5. VEGETATION SHALL NOT EXCEED 18" IN HEIGHT IN THE SEDIMENT FOREBAYS.

DETENTION BASIN INSPECTION, MAINTENANCE, AND REPAIR NOTES

- 1. SEDIMENT SHALL BE REMOVED FROM THE DETENTION BASIN WHEN THE SEDIMENT VOLUME EXCEEDS 10 PERCENT OF THE TOTAL BASIN VOLUME. THE REMOVED SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED AND PERMITTED LOCATION.
2. FOLLOWING FIRST 6 MONTHS AFTER CONSTRUCTION
• INSPECT INFILTRATION PRACTICES AFTER FIRST TWO RAINFALL EVENTS OF 1" OR MORE.
3. BI-ANNUALLY
• INSPECT DETENTION BASIN A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY ONCE IN APRIL AND ONCE IN OCTOBER.
• MOW SIDE SLOPES AND BOTTOM OF DETENTION BASIN A MINIMUM OF TWO TIMES PER YEAR. THE VEGETATION SHALL NOT EXCEED 18" IN HEIGHT.
4. QUARTERLY
• THE DETENTION BASIN OUTLET STRUCTURES AND ALL OUTFLOW CHANNELS SHOULD BE INSPECTED QUARTERLY BY THE OWNER.

ABBREVIATIONS

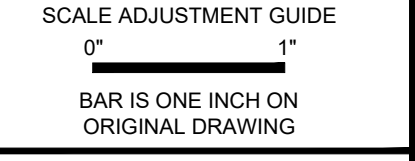
Table listing abbreviations such as ADA, ASSF, BM, BMP, BIT, BOT, BC, BS, BW, CI, CB, CLI, CL, CMR, CONC, CC, DEMO, DIA, DV, DYL, DMH, EOP, ELEV, EX, EXIST, EXCB, EXDMH, FFE, FT, FND, GTD, GRAN, HDPE, HMA, HYD, I.D., INV, LOD, LP, MUTCD, MAX, MIN, MON, NTS, N.T.S., OWS, OCS, PERF, PE, PVC, R=X, RCP, MASSDEP, MASSDOT, M.A. STD., SMH, SWL, SESC, SDR, TD, TST, TSW, TP, TC, TS, TW, TYP, UP, VGC, VC, WPM, W/, YD.



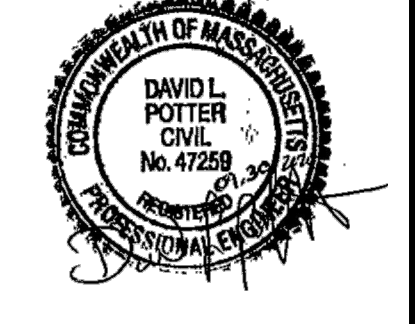
LEGEND:

Legend table listing symbols and their meanings: ATG = ADJUST TO GRADE, BOL = BOLLARD, CCB = CAPE COD BERM, CCW = CEMENT CONCRETE WALK, CE = CONSTRUCTION ENTRANCE, CFS = COMPOST FILTER SOCK (SEE DETAIL), CG = CLEAR AND GRUB VEGETATION, CLF = CHAIN LINK FENCE, CM = SAWCUT AND MATCH, CP = CONCRETE PAD, CRW = CONCRETE RETAINING WALL, CTE = CONNECT TO EXISTING, DC = REMOVE AND DISPOSE CURB, DCB = REMOVE AND DISPOSE CATCH BASIN, DCP = REMOVE AND DISPOSE CONCRETE PAD, DD = REMOVE AND DISPOSE DRAINAGE, DFP = REMOVE AND DISPOSE FLEXIBLE PAVMENT, DH = REMOVE AND DISPOSE HYDRANT, DRW = REMOVE AND DISPOSE RETAINING WALL, DS = REMOVE AND DISPOSE SIGN, DSWR = REMOVE AND DISPOSE SEWER, DW = REMOVE AND DISPOSE WATER, DWP = DETECTABLE WARNING PAYER (SEE DETAIL), ETR = EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION., G = GRAVEL DRIVE (SEE DETAIL), GV = GATE VALVE.

Legend table listing symbols and their meanings: HMA = HOT MIXED ASPHALT PAVEMENT (SEE DETAIL), HMAW = HOT MIXED ASPHALT WALK, HYD = HYDRANT, LS = LOAM AND SEED (SEE DETAIL), PCFES = PRECAST CONCRETE FLARED END SECTION, RLS = RIPRAP LEVEL SPREADER (SEE DETAIL), RRS = RIPRAP SLOPE (SEE DETAIL), RS = RIPRAP SPILLWAY (SEE DETAIL), RTAD = REFER TO ARCHITECTURAL DRAWINGS, RTED = REFER TO ELECTRICAL DRAWINGS, RTFPD = REFER TO FIRE PROTECTION DRAWINGS, RTMD = REFER TO MECHANICAL DRAWINGS, RTPD = REFER TO PLUMBING DRAWINGS, RTSO = REFER TO STRUCTURAL DRAWINGS, R&D = REMOVE AND DISPOSE, R&R = REMOVE AND RESET, SFCD = SEDIMENT FOREBAY CHECK DAM (SEE DETAIL), SHP = HANDICAP PARKING PAVEMENT MARKING (SEE DETAIL), SM = SEDIMENT MARKER, TDS = TEMPORARY DIVERSION SWALE, TIS = TEMPORARY INLET PROTECTION, TRM = TURF REINFORCEMENT MAT, TST = TEMPORARY SEDIMENT TRAP, VCP = VEHICULAR CONCRETE PAVEMENT, VGC = VERTICAL GRANITE CURB, 4W = 4" SOLID WHITE EPOXY RESIN PAVEMENT MARKING.



Project America 125 Fortune Boulevard Milford, Massachusetts



REVISIONS:

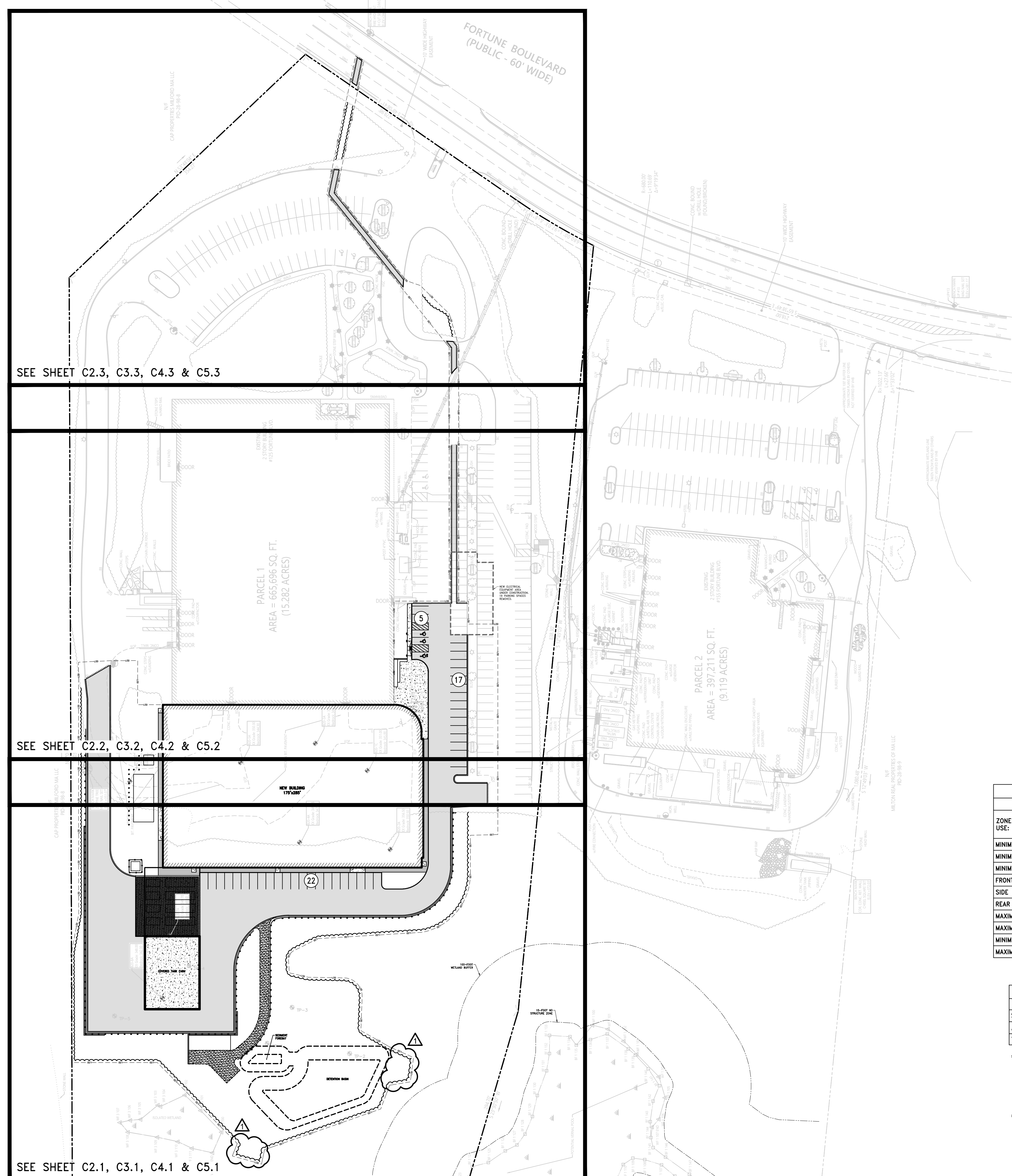
Table with columns for revision number, description, and date.

PROJECT NO.: 20115.00
DATE: SEPTEMBER 30, 2020
SCALE: N.T.S.
DESIGNED BY: KJM
CHECKED BY: JHR
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:

CIVIL NOTES & LEGEND

DRAWING NO.: C-101

Project America
125 Fortune Boulevard
 Milford, Massachusetts



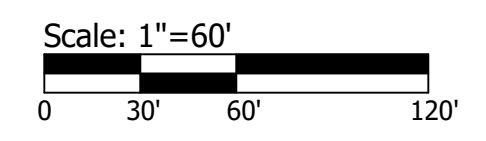
ZONING TABLE		
	REQUIRED	PROVIDED
ZONE: IB		
USE: MANUFACTURING FACILITY		
MINIMUM LOT AREA	80,000 SF	665,696 SF
MINIMUM LOT WIDTH	250'	414'
MINIMUM LOT FRONTAGE	230'	377'
FRONT SETBACK	50'	261'
SIDE SETBACK	25'	100'
REAR SETBACK	30'	440'
MAXIMUM BUILDING COVERAGE	35%	19%
MAXIMUM GROSS FLOOR AREA RATIO	0.50	0.27
MINIMUM OPEN SPACE PER LOT AREA	20%	55%
MAXIMUM HEIGHT	60'	32'

PARKING SUMMARY			
	EXISTING	REQUIRED*	PROVIDED
STANDARD SPACES (9'x18')	217	207	219
ACCESSIBLE SPACES**	4	7	7
TOTAL SPACES	221	214	226

* INDUSTRIAL USES:
 OFFICE: 3.5 SPACES PER 1,000 SF OF GFA
 (19,000 SF/1,000) X 3.5 = 67 SPACES

WAREHOUSE: 1.2 SPACES PER EMPLOYEE FOR FACILITIES WITH MULTIPLE SHIFTS
 24 WAREHOUSE EMPLOYEES + 100 R&D EMPLOYEES
 124 EMPLOYEES X 1.2 = 132 SPACES

** ADA REQUIREMENT FOR PARKING LOT 201 TO 300 TOTAL SPACES = 7 SPACES



REVISIONS:

NO.	DATE	COMMENTS
1	10/20/2020	TOWN COMMENTS

PROJECT NO.: 20115.00
 DATE: SEPTEMBER 30, 2020
 SCALE: 1" = 60'
 DESIGNED BY: KJM
 CHECKED BY: JHR
 DRAWN BY: AKL
 APPROVED BY: DLP
 DRAWING TITLE:

OVERALL PLAN

DRAWING NO.:
C-102

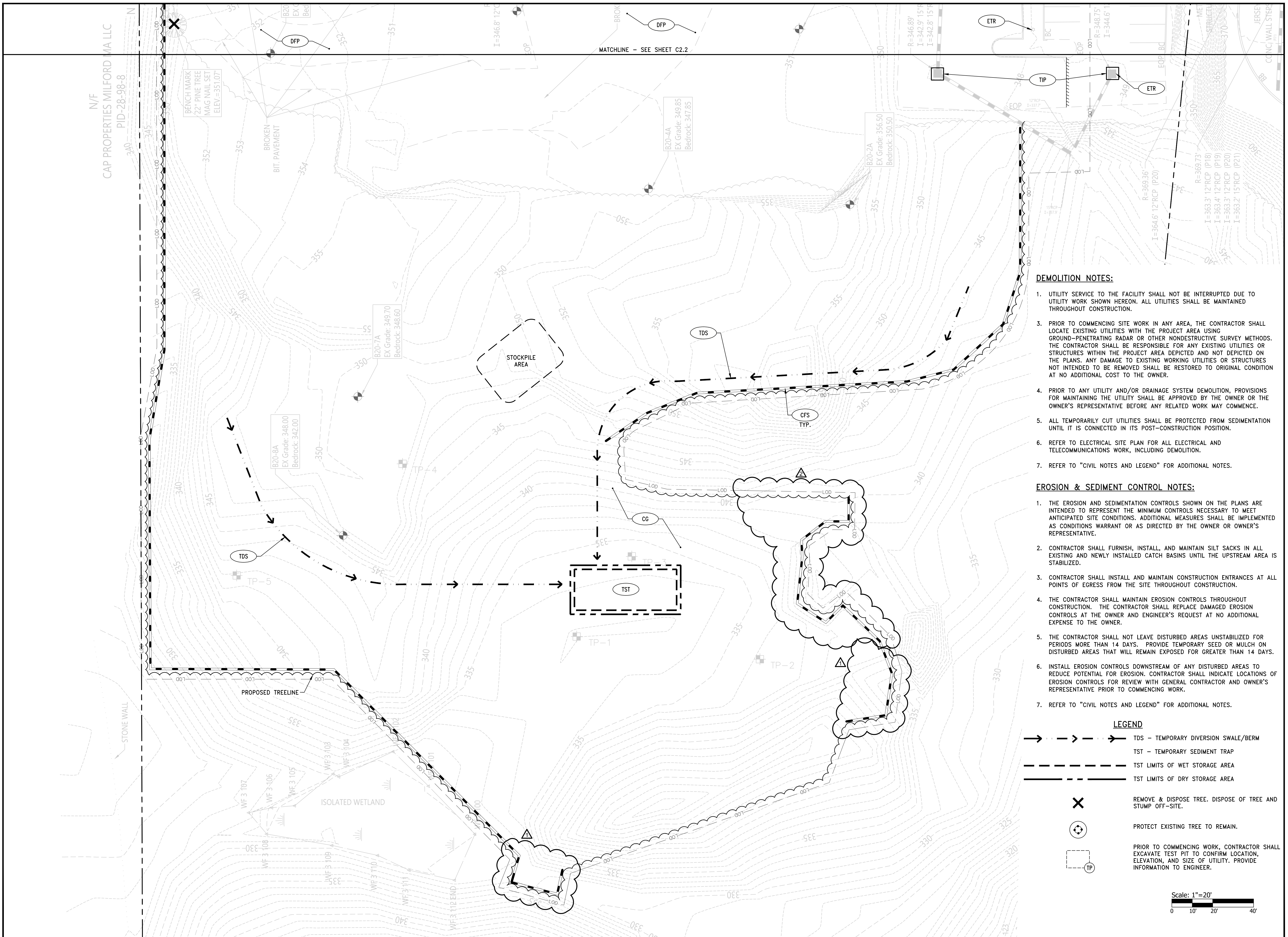
REVISIONS:

1	10/20/2020	TOWN COMMENTS
2	11/16/2020	DEP COMMENTS

PROJECT NO.: 20115.00
 DATE: SEPTEMBER 30, 2020
 SCALE: 1" = 20'
 DESIGNED BY: KJM
 CHECKED BY: JHR
 DRAWN BY: AKL
 APPROVED BY: DLP
 DRAWING TITLE:

DEMOLITION, EROSION & SEDIMENT CONTROL PLAN 1

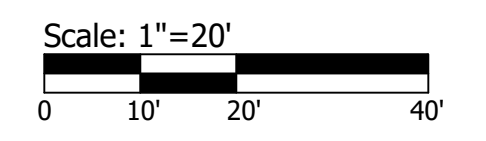
DRAWING NO.:
C-201



- DEMOLITION NOTES:**
- UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - PRIOR TO COMMENCING SITE WORK IN ANY AREA, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
 - PRIOR TO ANY UTILITY AND/OR DRAINAGE SYSTEM DEMOLITION, PROVISIONS FOR MAINTAINING THE UTILITY SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE ANY RELATED WORK MAY COMMENCE.
 - ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
 - REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING DEMOLITION.
 - REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

- EROSION & SEDIMENT CONTROL NOTES:**
- THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
 - CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
 - THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
 - INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
 - REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

- LEGEND**
- TDS - TEMPORARY DIVERSION SWALE/BERM
 - TST - TEMPORARY SEDIMENT TRAP
 - TST LIMITS OF WET STORAGE AREA
 - TST LIMITS OF DRY STORAGE AREA
 - REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
 - PROTECT EXISTING TREE TO REMAIN.
 - PRIOR TO COMMENCING WORK, CONTRACTOR SHALL EXCAVATE TEST PIT TO CONFIRM LOCATION, ELEVATION, AND SIZE OF UTILITY. PROVIDE INFORMATION TO ENGINEER.



DEMOLITION NOTES:

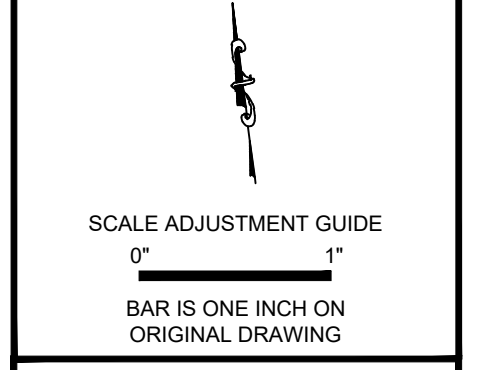
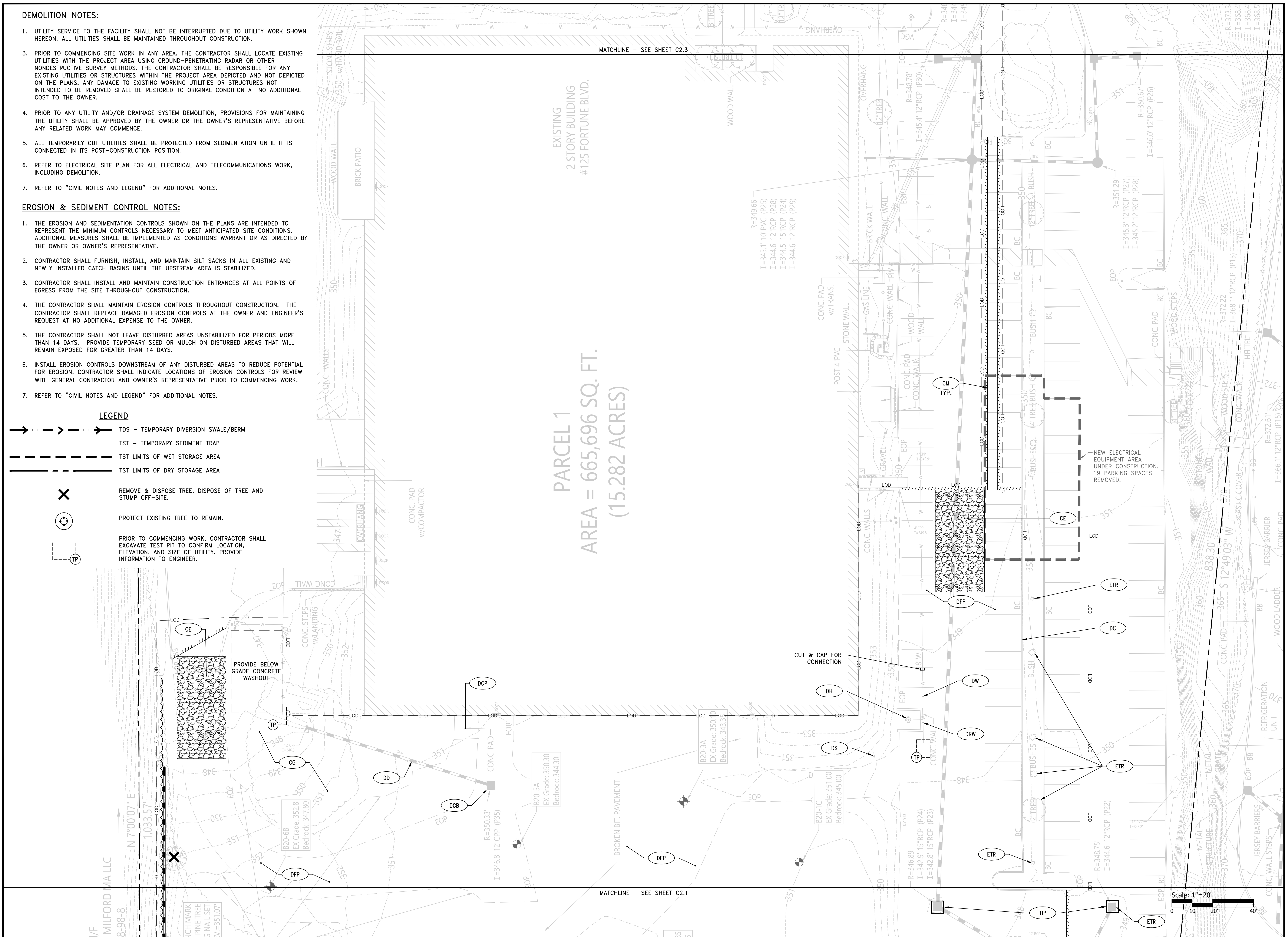
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- PRIOR TO COMMENCING SITE WORK IN ANY AREA, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
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- REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING DEMOLITION.
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- CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
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- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

LEGEND

- TDS - TEMPORARY DIVERSION SWALE/BERM
- TST - TEMPORARY SEDIMENT TRAP
- TST LIMITS OF WET STORAGE AREA
- TST LIMITS OF DRY STORAGE AREA
- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN.
- PRIOR TO COMMENCING WORK, CONTRACTOR SHALL EXCAVATE TEST PIT TO CONFIRM LOCATION, ELEVATION, AND SIZE OF UTILITY. PROVIDE INFORMATION TO ENGINEER.



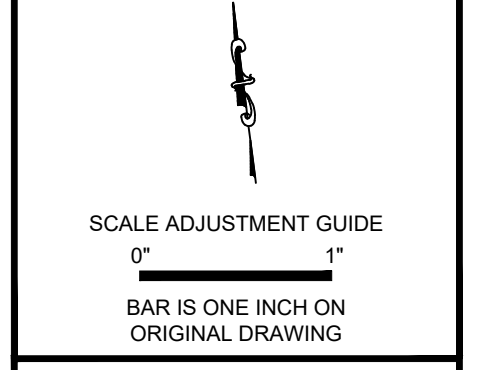
Project America
125 Fortune Boulevard
 Milford, Massachusetts



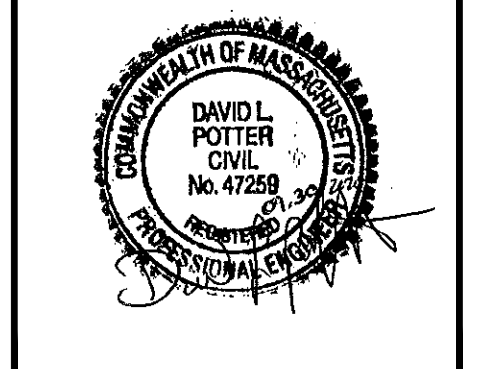
REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT NO.: 20115.00
 DATE: SEPTEMBER 30, 2020
 SCALE: 1" = 20'
 DESIGNED BY: KJM
 CHECKED BY: JHR
 DRAWN BY: AKL
 APPROVED BY: DLP
 DRAWING TITLE:
 DEMOLITION, EROSION & SEDIMENT CONTROL PLAN 2
 DRAWING NO.:
C-202



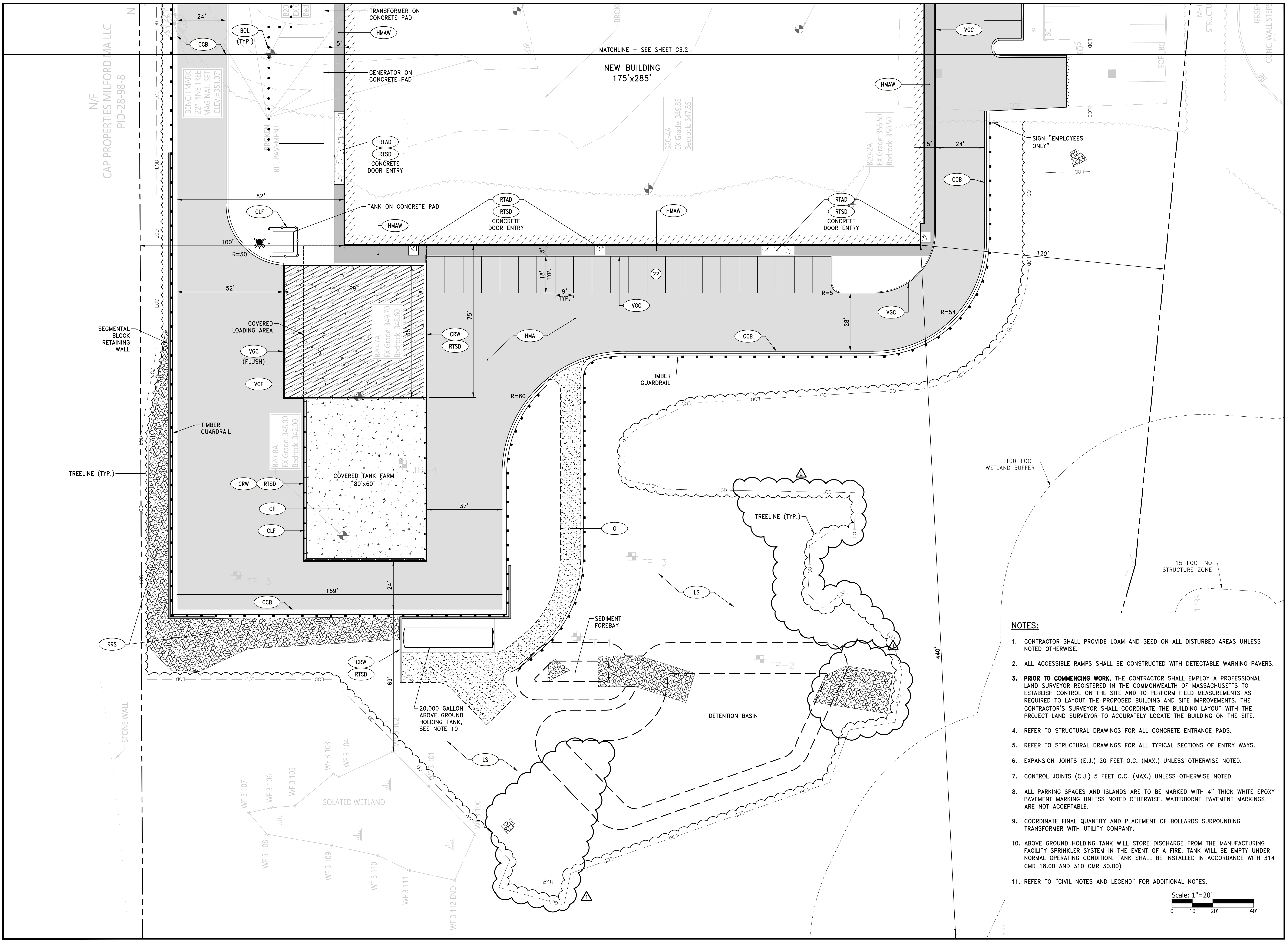
Project America
125 Fortune Boulevard
Milford, Massachusetts



REVISIONS:	
1	10/20/2020 TOWN COMMENTS
2	11/16/2020 DEP COMMENTS

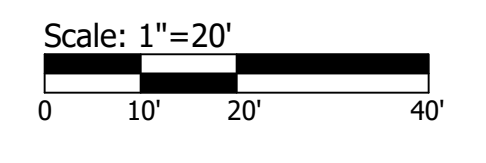
PROJECT NO.:	20115.00
DATE:	SEPTEMBER 30, 2020
SCALE:	1" = 20'
DESIGNED BY:	KJM
CHECKED BY:	JHR
DRAWN BY:	AKL
APPROVED BY:	DLP
DRAWING TITLE:	

GENERAL PLAN 1
DRAWING NO.:
C-301



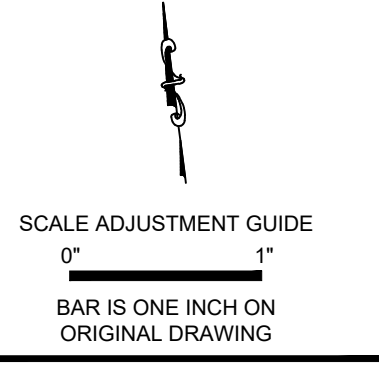
NOTES:

- CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE.
- ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
- PRIOR TO COMMENCING WORK,** THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
- REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
- REFER TO STRUCTURAL DRAWINGS FOR ALL TYPICAL SECTIONS OF ENTRY WAYS.
- EXPANSION JOINTS (E.J.) 20 FEET O.C. (MAX.) UNLESS OTHERWISE NOTED.
- CONTROL JOINTS (C.J.) 5 FEET O.C. (MAX.) UNLESS OTHERWISE NOTED.
- ALL PARKING SPACES AND ISLANDS ARE TO BE MARKED WITH 4" THICK WHITE EPOXY PAVEMENT MARKING UNLESS NOTED OTHERWISE. WATERBORNE PAVEMENT MARKINGS ARE NOT ACCEPTABLE.
- COORDINATE FINAL QUANTITY AND PLACEMENT OF BOLLARDS SURROUNDING TRANSFORMER WITH UTILITY COMPANY.
- ABOVE GROUND HOLDING TANK WILL STORE DISCHARGE FROM THE MANUFACTURING FACILITY SPRINKLER SYSTEM IN THE EVENT OF A FIRE. TANK WILL BE EMPTY UNDER NORMAL OPERATING CONDITION. TANK SHALL BE INSTALLED IN ACCORDANCE WITH 314 CMR 18.00 AND 310 CMR 30.00)
- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

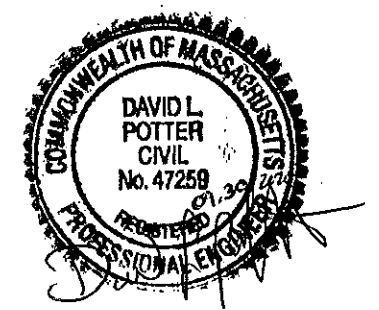


NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE.
2. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. **PRIOR TO COMMENCING WORK**, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
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11. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



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Milford, Massachusetts



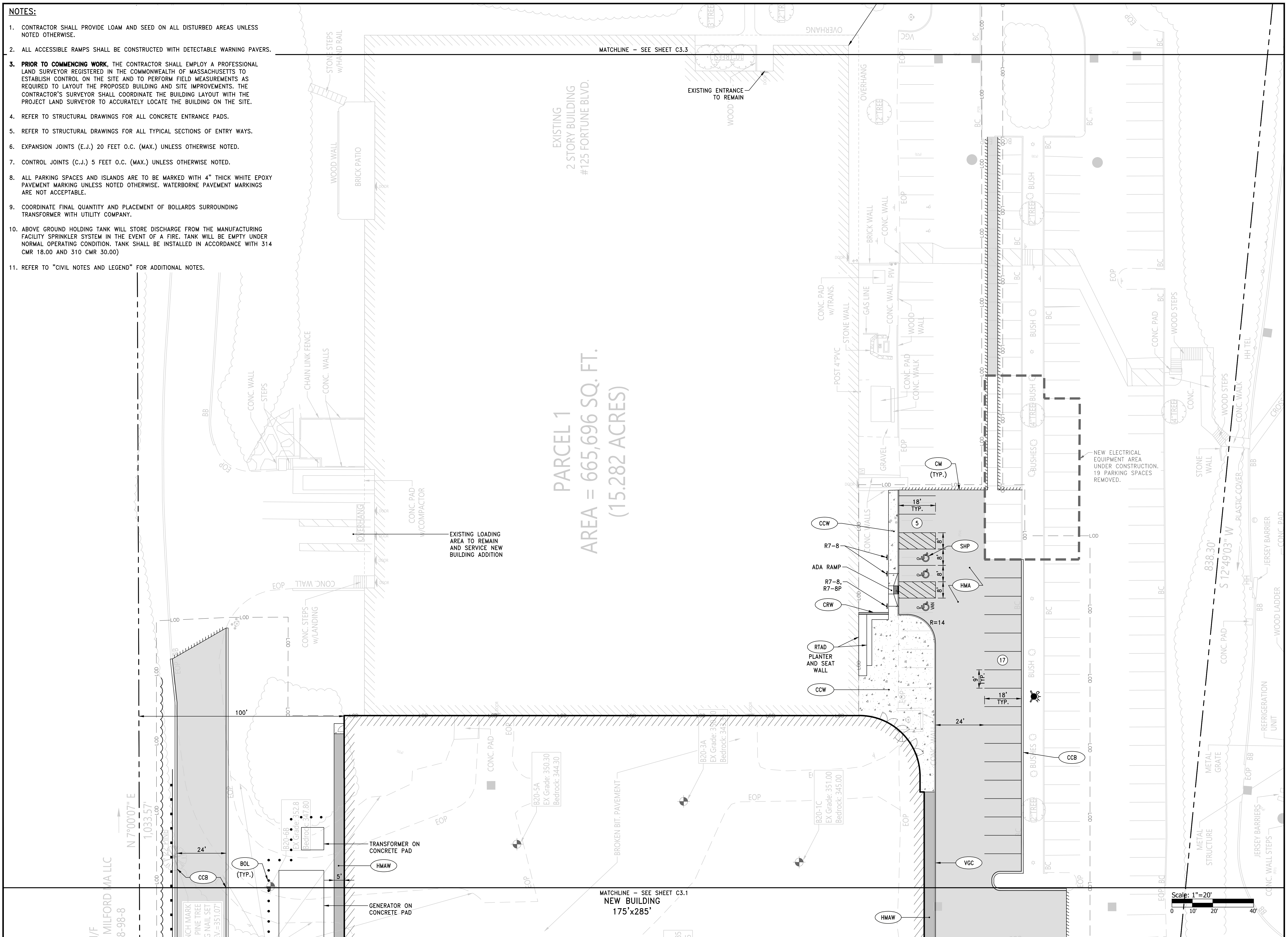
REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT NO.: 20115.00
DATE: SEPTEMBER 30, 2020
SCALE: 1" = 20'
DESIGNED BY: KJM
CHECKED BY: JHR
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:

GENERAL PLAN 2

DRAWING NO.:
C-302



PARCEL 1
AREA = 665,696 SQ. FT.
(15.282 ACRES)

Scale: 1"=20'
0 10 20 40'

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE.
2. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. **PRIOR TO COMMENCING WORK**, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
4. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
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11. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

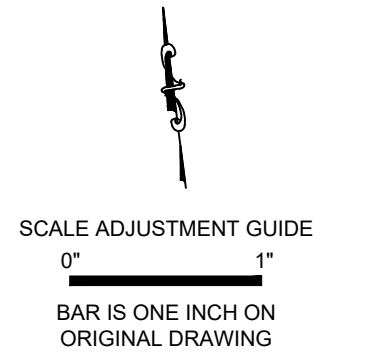
N/F
CAP PROPERTIES MILFORD MA LLC
PID-28-98-8

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354.27'

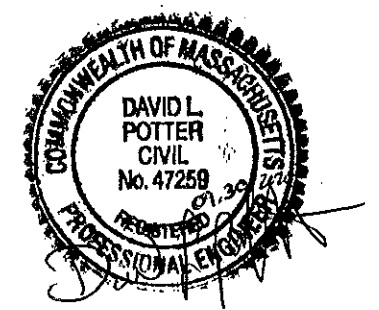
BENCH MZ
FIRE HYDR
X-CUT SET
ELEV.=344'

10' WIDE HIGHWAY
EASEMENT

FORTUNE BOULEVARD
(PUBLIC - 60' WIDE)



Project America
125 Fortune Boulevard
Milford, Massachusetts



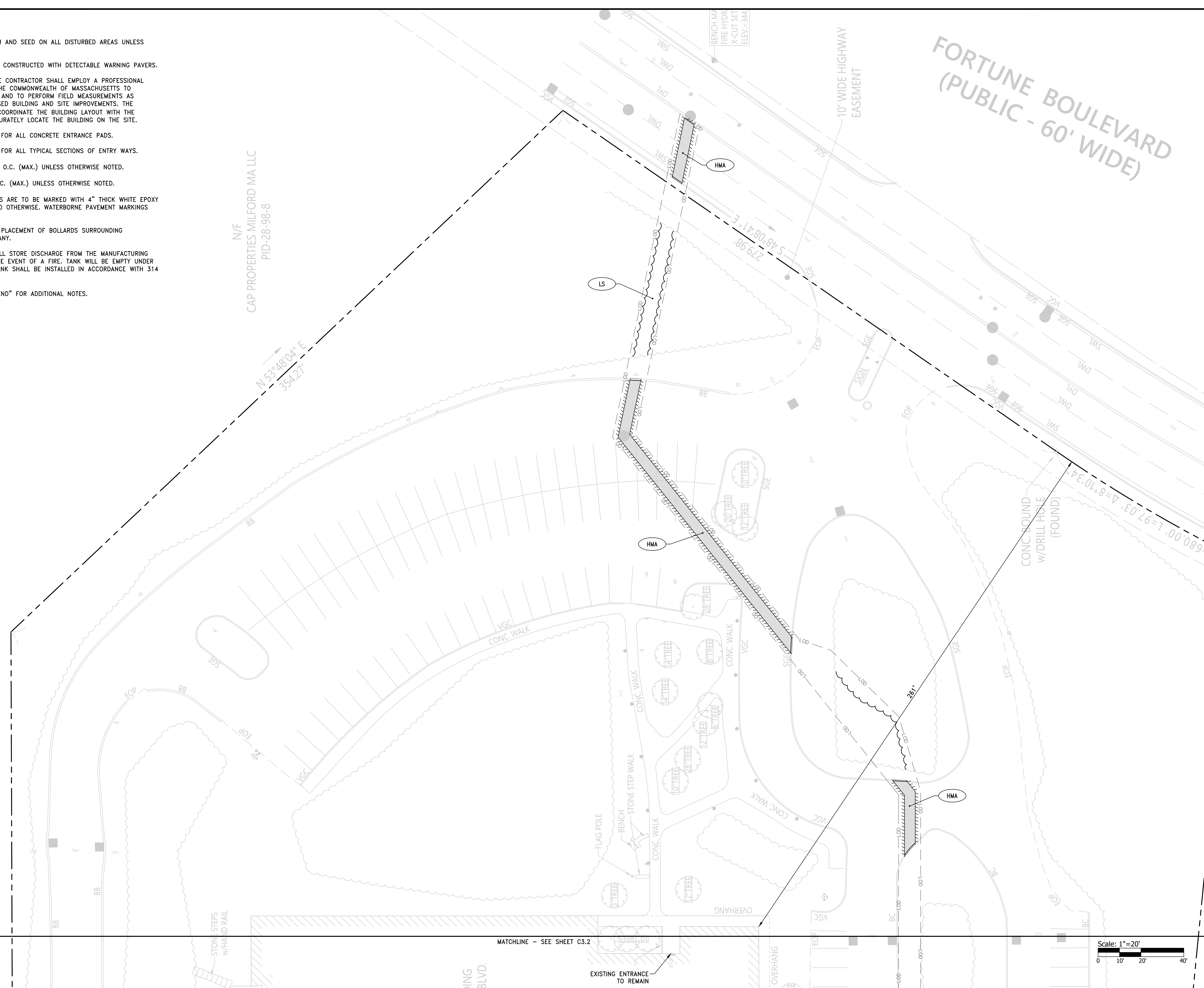
REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 20115.00
DATE: SEPTEMBER 30, 2020
SCALE: 1" = 20'
DESIGNED BY: KJM
CHECKED BY: JHR
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:

GENERAL PLAN 3

DRAWING NO.:
C-303



MATCHLINE - SEE SHEET C3.2

Scale: 1"=20'
0 10' 20' 40'

ING BLVD.

EXISTING ENTRANCE TO REMAIN

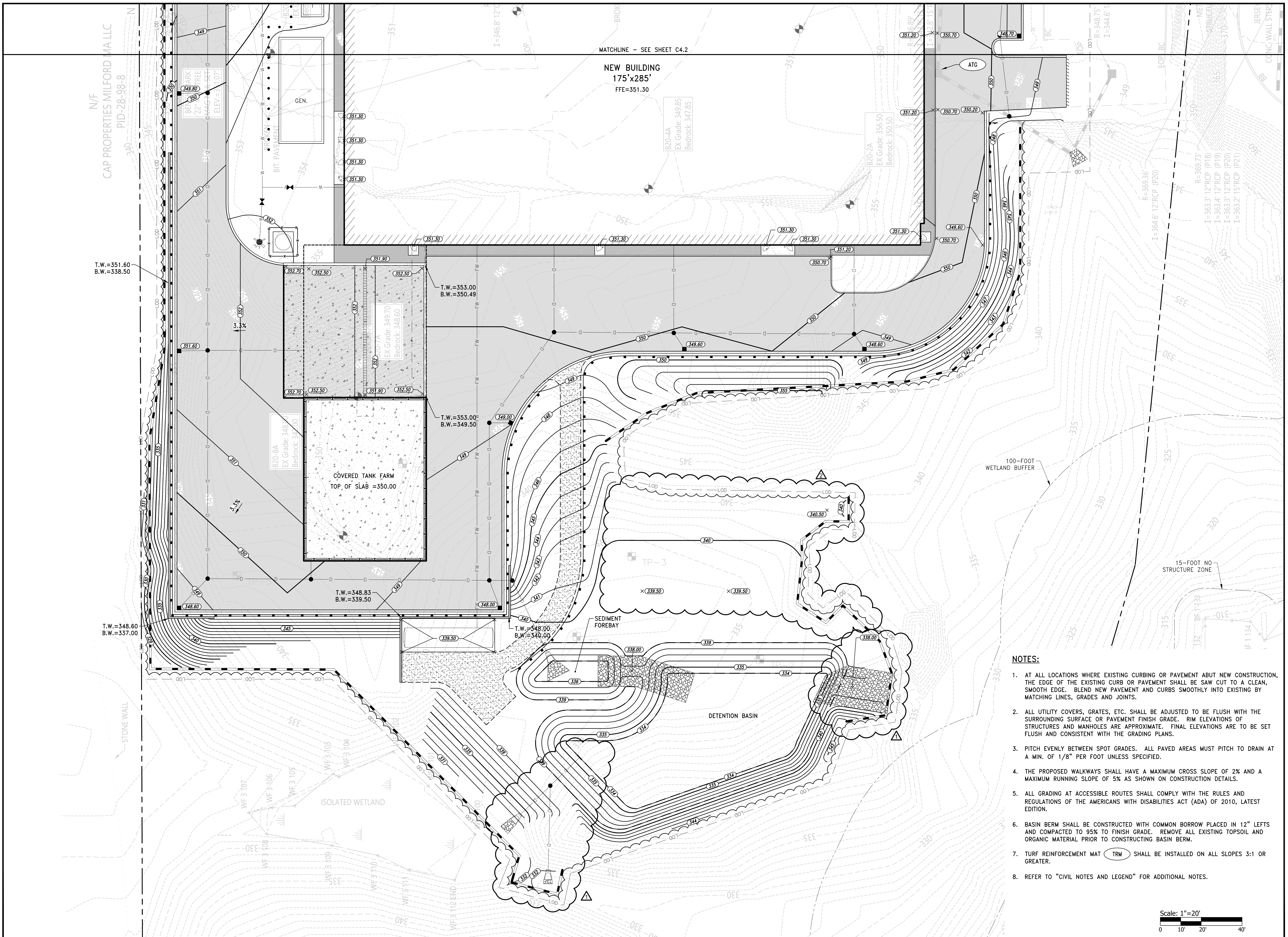
REVISIONS:	
1	10/20/2020 TOWN COMMENTS
2	11/16/2020 DEP COMMENTS

PROJECT NO.:	20115.00
DATE:	SEPTEMBER 30, 2020
SCALE:	1" = 20'
DESIGNED BY:	KJM
CHECKED BY:	JHR
DRAWN BY:	AKL
APPROVED BY:	DLP
DRAWING TITLE:	

GRADING PLAN 1

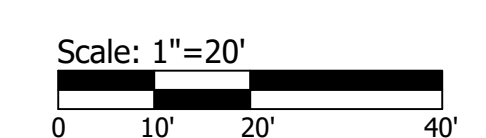
DRAWING NO.:

C-401



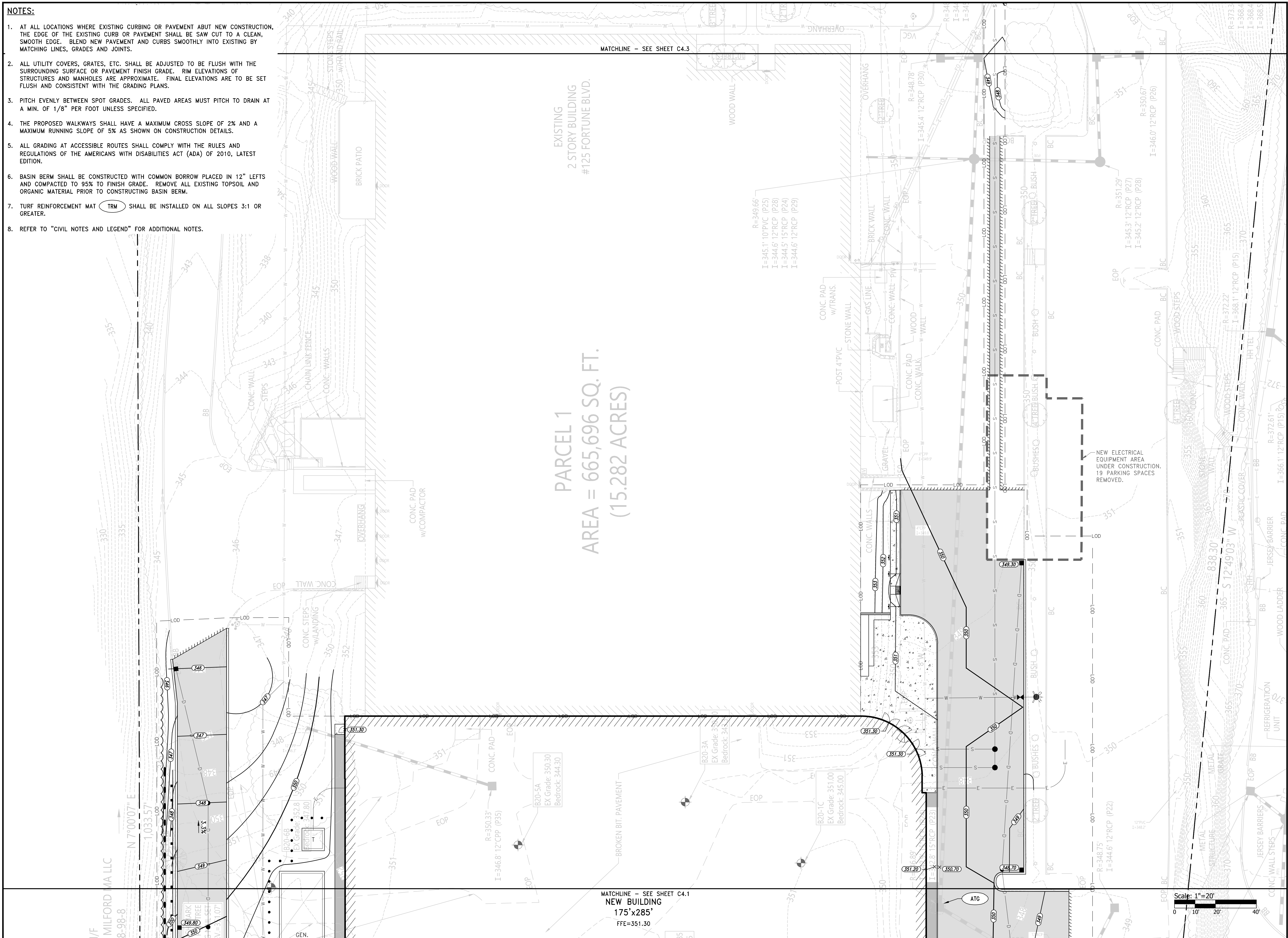
NOTES:

1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
2. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
3. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
4. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS.
5. ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.
6. BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LEFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING BASIN BERM.
7. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
8. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



NOTES:

1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
2. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
3. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
4. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS.
5. ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.
6. BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LEFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING BASIN BERM.
7. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
8. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

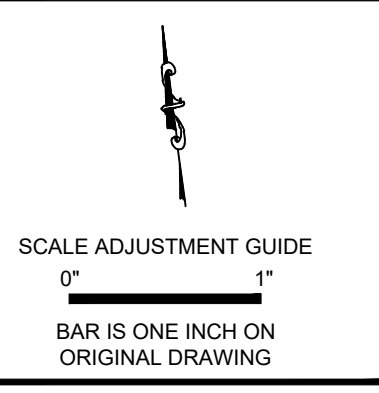


PARCEL 1
 AREA = 665,696 SQ. FT.
 (15.282 ACRES)

EXISTING
 2 STORY BUILDING
 #125 FORTUNE BLVD.

MATCHLINE - SEE SHEET C4.1
 NEW BUILDING
 175' x 285'
 FFE=351.30

Scale: 1"=20'
 0 10 20 40'



Project America
 125 Fortune Boulevard
 Milford, Massachusetts



REVISIONS:

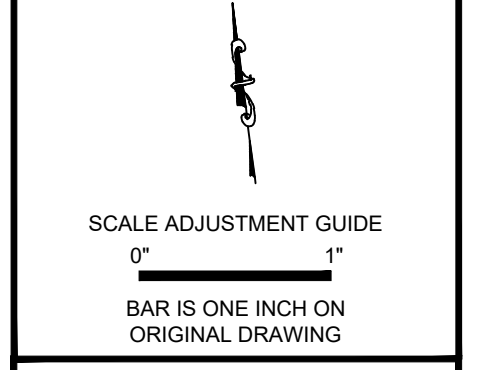
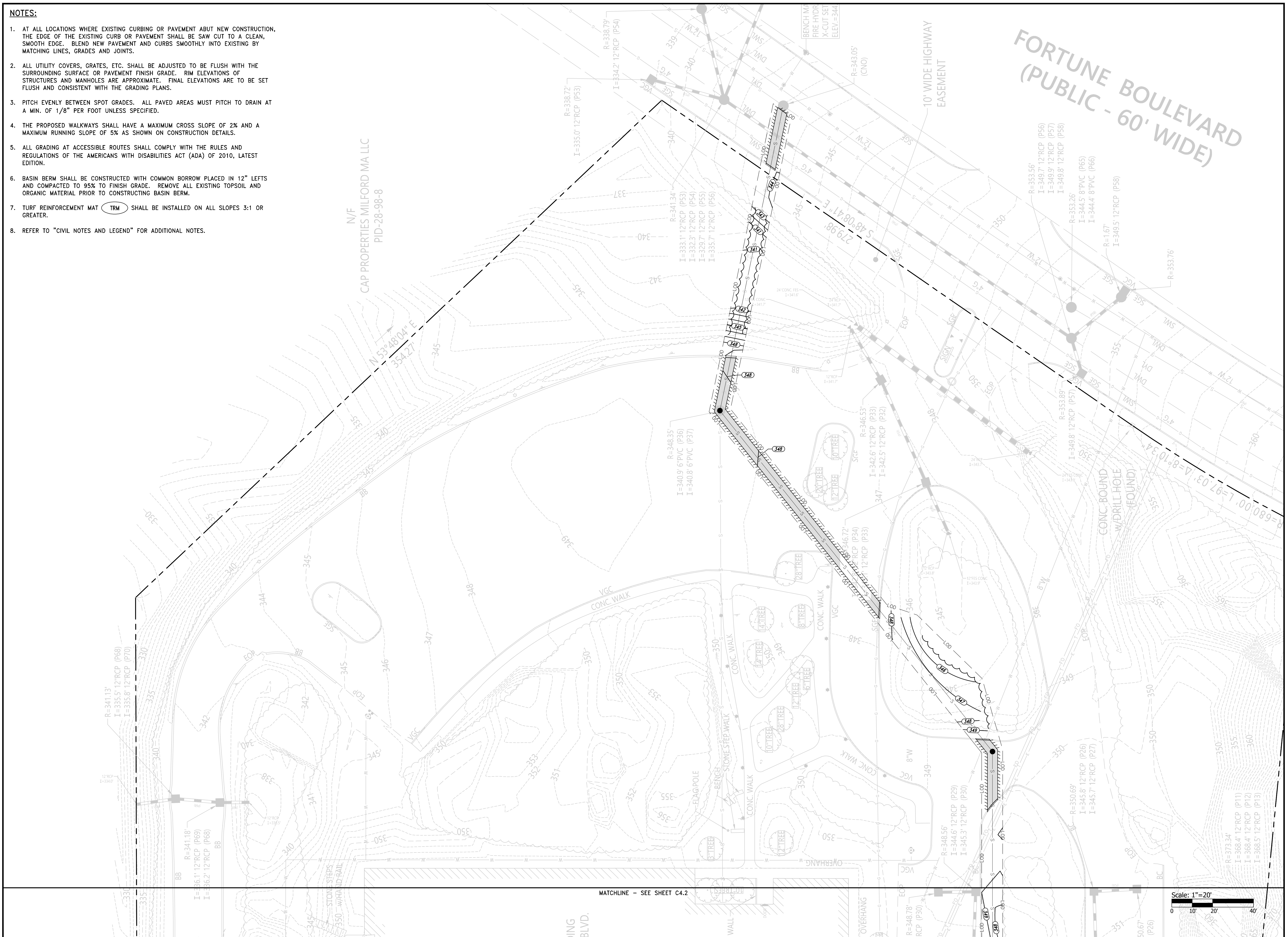
NO.	DESCRIPTION	DATE

PROJECT NO.: 20115.00
 DATE: SEPTEMBER 30, 2020
 SCALE: 1" = 20'
 DESIGNED BY: KJM
 CHECKED BY: JHR
 DRAWN BY: AKL
 APPROVED BY: DLP
 DRAWING TITLE:

GRADING PLAN 2
 DRAWING NO.:
 C-402

NOTES:

1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
2. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
3. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
4. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS.
5. ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.
6. BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LEFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING BASIN BERM.
7. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
8. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



Project America
125 Fortune Boulevard
Milford, Massachusetts



REVISIONS:

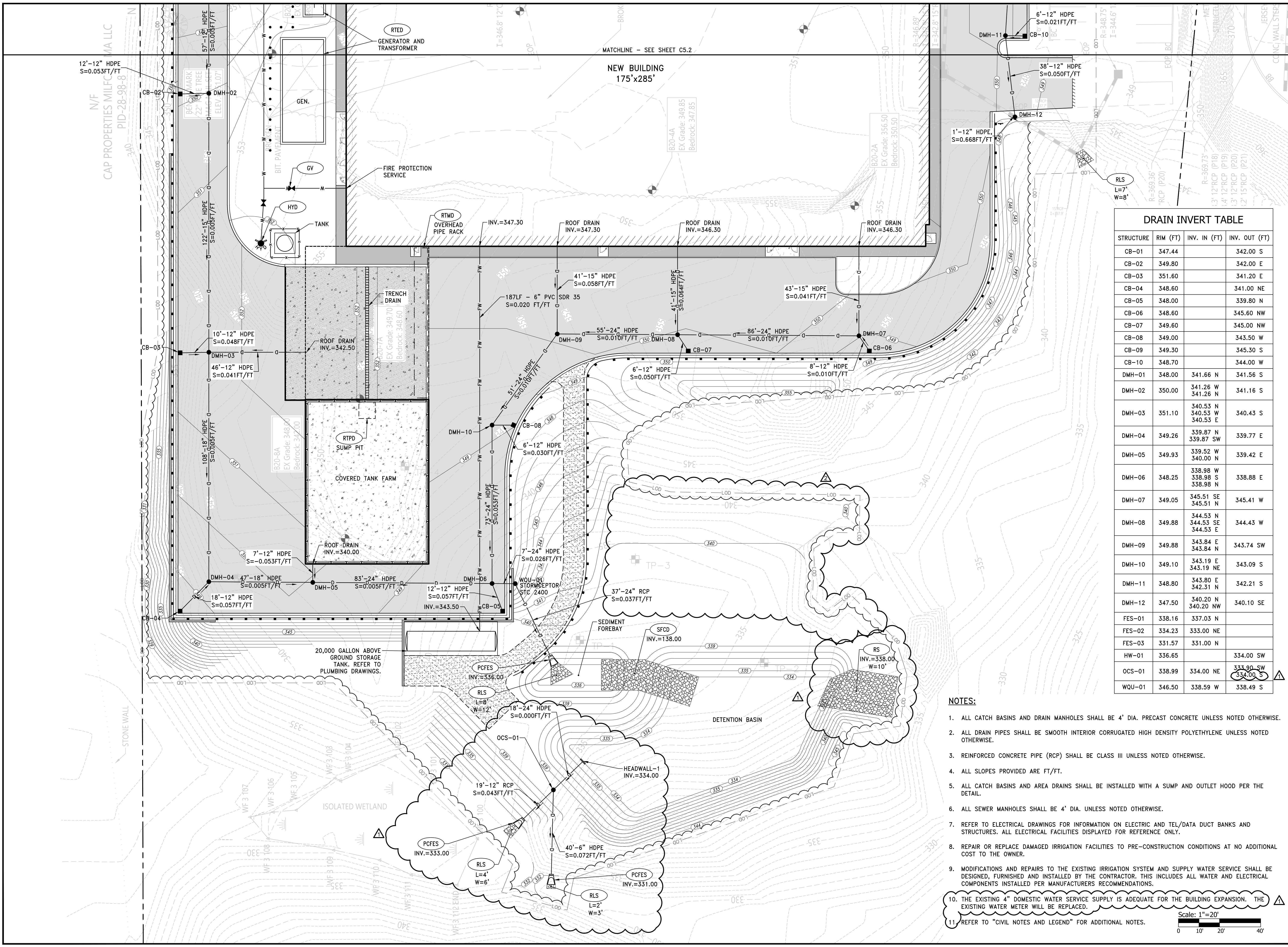
NO.	DESCRIPTION	DATE

PROJECT NO.: 20115.00
DATE: SEPTEMBER 30, 2020
SCALE: 1" = 20'
DESIGNED BY: KJM
CHECKED BY: JHR
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:

GRADING PLAN 3
DRAWING NO.: C-403

REVISIONS:

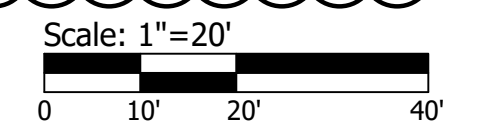
1	10/20/2020	TOWN COMMENTS
2	11/16/2020	DEP COMMENTS



DRAIN INVERT TABLE

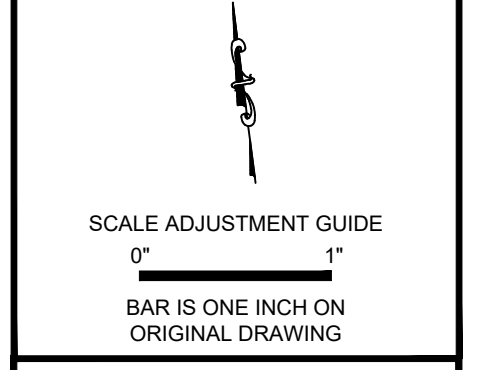
STRUCTURE	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-01	347.44		342.00 S
CB-02	349.80		342.00 E
CB-03	351.60		341.20 E
CB-04	348.60		341.00 NE
CB-05	348.00		339.80 N
CB-06	348.60		345.60 NW
CB-07	349.60		345.00 NW
CB-08	349.00		343.50 W
CB-09	349.30		345.30 S
CB-10	348.70		344.00 W
DMH-01	348.00	341.66 N	341.56 S
DMH-02	350.00	341.26 W	341.16 S
DMH-03	351.10	340.53 N	340.43 S
DMH-04	349.26	339.87 N	339.77 E
DMH-05	349.93	339.52 W	339.42 E
DMH-06	348.25	338.98 W	338.88 E
DMH-07	349.05	345.51 SE	345.41 W
DMH-08	349.88	344.53 N	344.43 W
DMH-09	349.88	343.84 E	343.74 SW
DMH-10	349.10	343.19 E	343.09 S
DMH-11	348.80	343.80 E	342.21 S
DMH-12	347.50	340.20 N	340.10 SE
FES-01	338.16	337.03 N	
FES-02	334.23	333.00 NE	
FES-03	331.57	331.00 N	
HW-01	336.65		334.00 SW
OCS-01	338.99	334.00 NE	333.90 SW
WQU-01	346.50	338.59 W	338.49 S

- NOTES:**
- ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
 - ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
 - REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
 - ALL SLOPES PROVIDED ARE FT/FT.
 - ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
 - ALL SEWER MANHOLES SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
 - REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
 - REPAIR OR REPLACE DAMAGED IRRIGATION FACILITIES TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
 - MODIFICATIONS AND REPAIRS TO THE EXISTING IRRIGATION SYSTEM AND SUPPLY WATER SERVICE SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL WATER AND ELECTRICAL COMPONENTS INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 - THE EXISTING 4" DOMESTIC WATER SERVICE SUPPLY IS ADEQUATE FOR THE BUILDING EXPANSION. THE EXISTING WATER METER WILL BE REPLACED.
 - REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



NOTES:

- ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
- ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
- REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
- ALL SLOPES PROVIDED ARE FT/FT.
- ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
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10. THE EXISTING 4" DOMESTIC WATER SERVICE SUPPLY IS ADEQUATE FOR THE BUILDING EXPANSION. THE EXISTING WATER METER WILL BE REPLACED.
- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



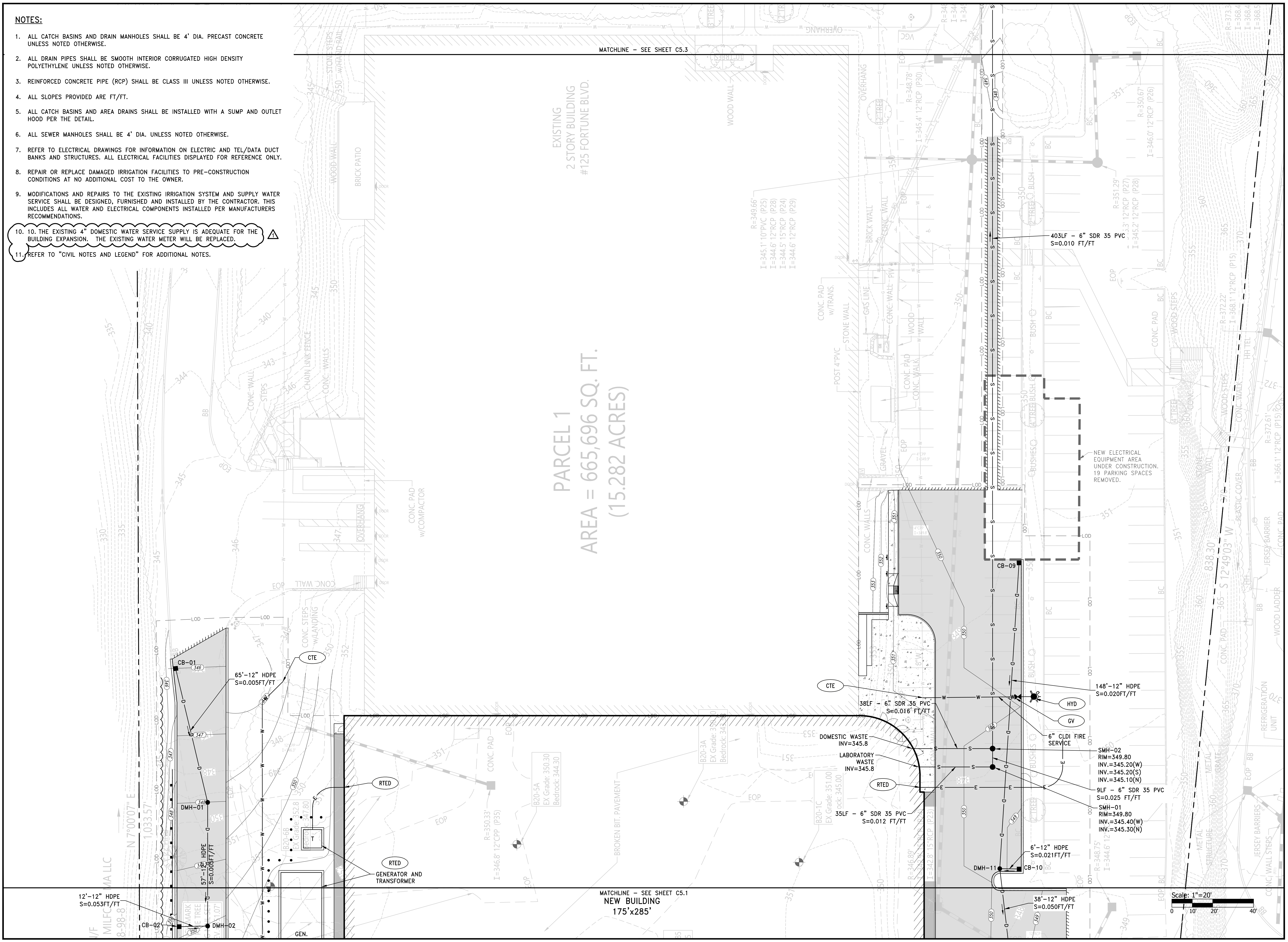
Project America
125 Fortune Boulevard
 Milford, Massachusetts

REVISIONS:

1	10/20/2020	TOWN COMMENTS
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PROJECT NO.: 20115.00
 DATE: SEPTEMBER 30, 2020
 SCALE: 1" = 20'
 DESIGNED BY: KJM
 CHECKED BY: JHR
 DRAWN BY: AKL
 APPROVED BY: DLP
 DRAWING TITLE:

DRAINAGE & UTILITY
 PLAN 2
 DRAWING NO.:
C-502



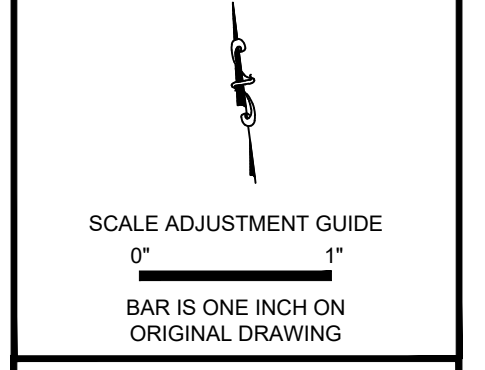
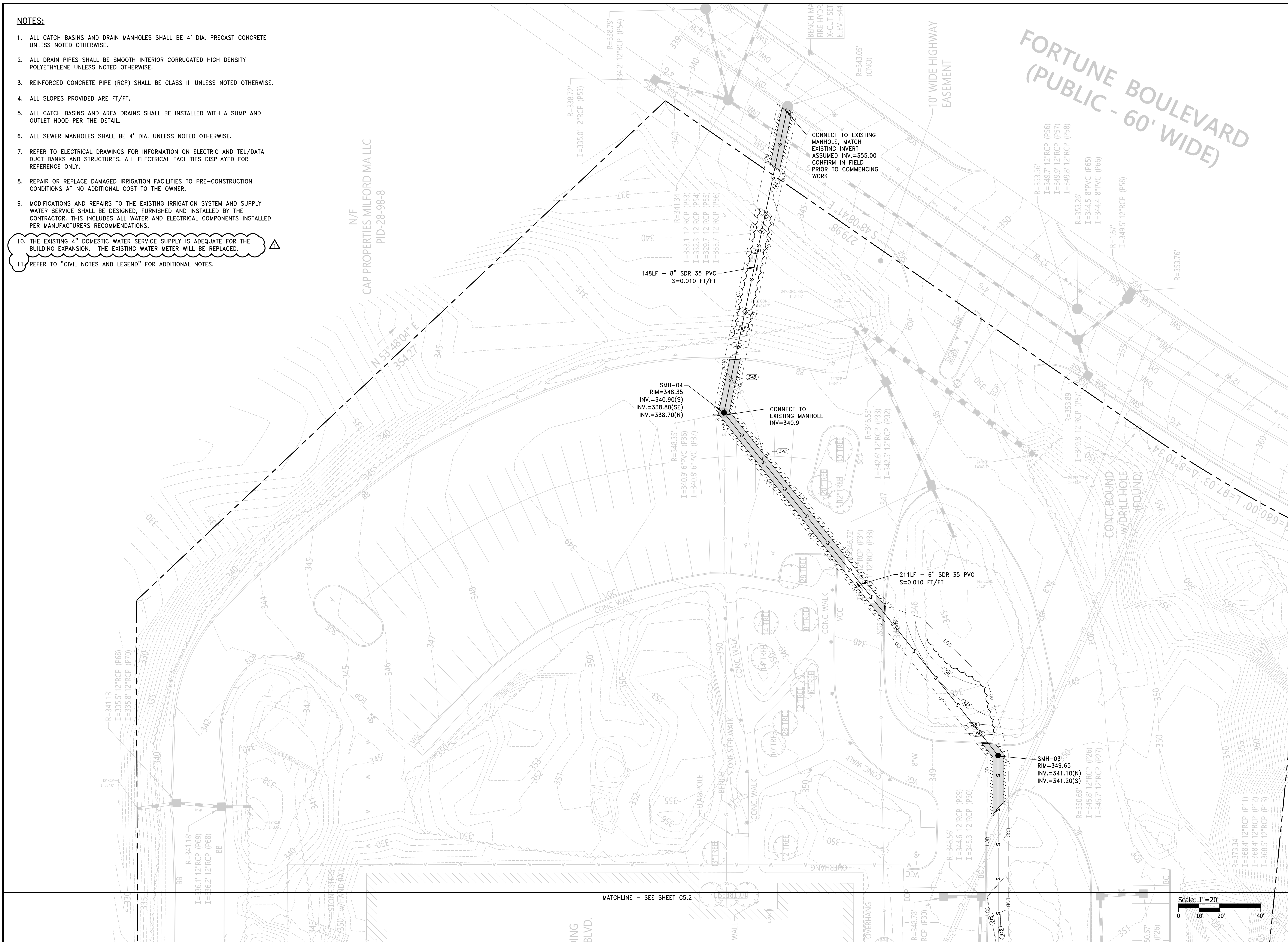
PARCEL 1
AREA = 665,696 SQ. FT.
(15.282 ACRES)

MATCHLINE - SEE SHEET C5.1
NEW BUILDING
175'x285'

Scale: 1"=20'
 0 10 20 40

NOTES:

- ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
- ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
- REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
- ALL SLOPES PROVIDED ARE FT/FT.
- ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
- ALL SEWER MANHOLES SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
- REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
- REPAIR OR REPLACE DAMAGED IRRIGATION FACILITIES TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- MODIFICATIONS AND REPAIRS TO THE EXISTING IRRIGATION SYSTEM AND SUPPLY WATER SERVICE SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL WATER AND ELECTRICAL COMPONENTS INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- THE EXISTING 4" DOMESTIC WATER SERVICE SUPPLY IS ADEQUATE FOR THE BUILDING EXPANSION. THE EXISTING WATER METER WILL BE REPLACED.
- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



Project America
125 Fortune Boulevard
 Milford, Massachusetts

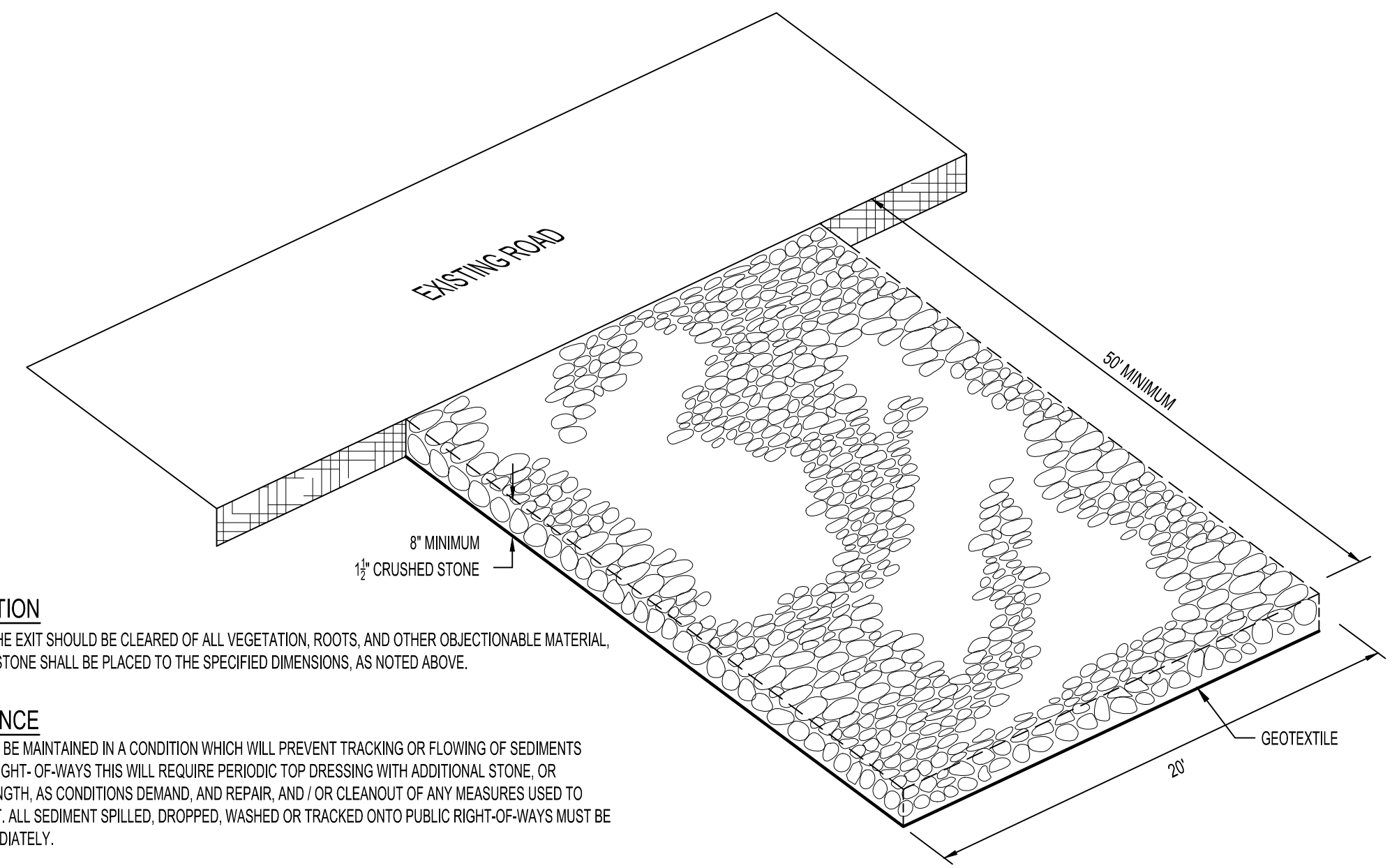
REVISIONS:

NO.	DATE	DESCRIPTION
1	10/20/2020	TOWN COMMENTS

PROJECT NO.: 20115.00
 DATE: SEPTEMBER 30, 2020
 SCALE: 1" = 20'
 DESIGNED BY: KJM
 CHECKED BY: JHR
 DRAWN BY: AKL
 APPROVED BY: DLP
 DRAWING TITLE:

DRAINAGE & UTILITY
 PLAN 3

DRAWING NO.:
C-503

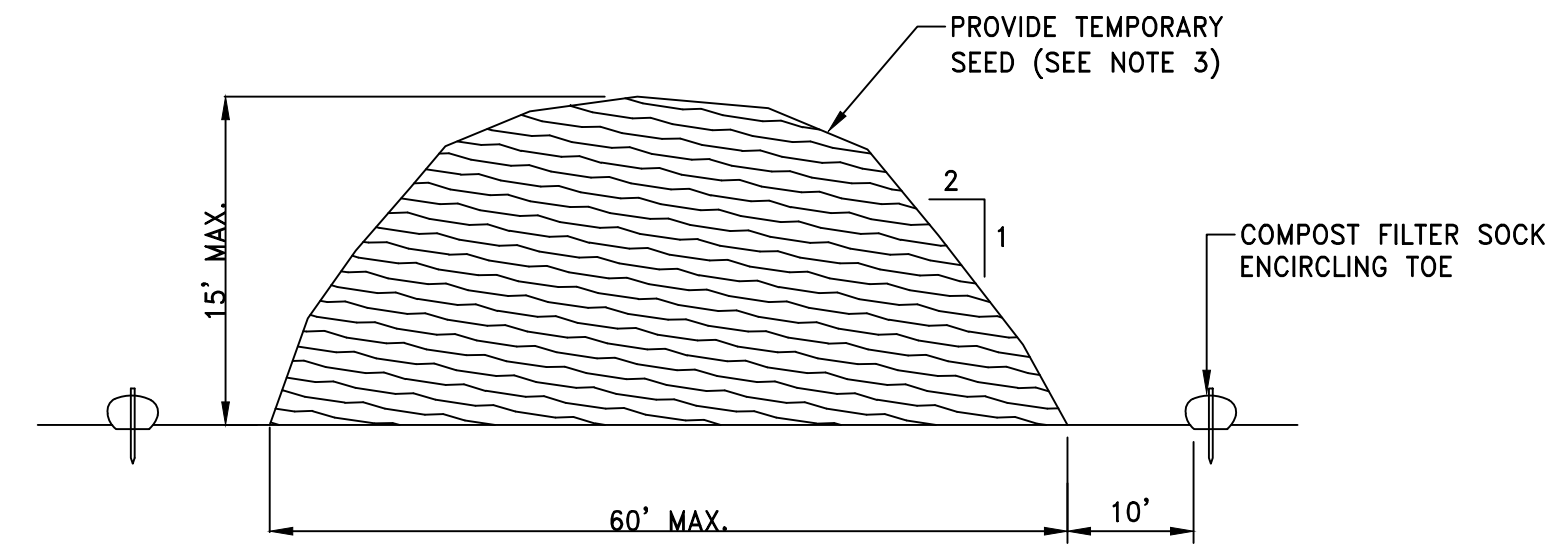


INSTALLATION
 THE AREA OF THE EXIT SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE CRUSHED STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

MAINTENANCE
 THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

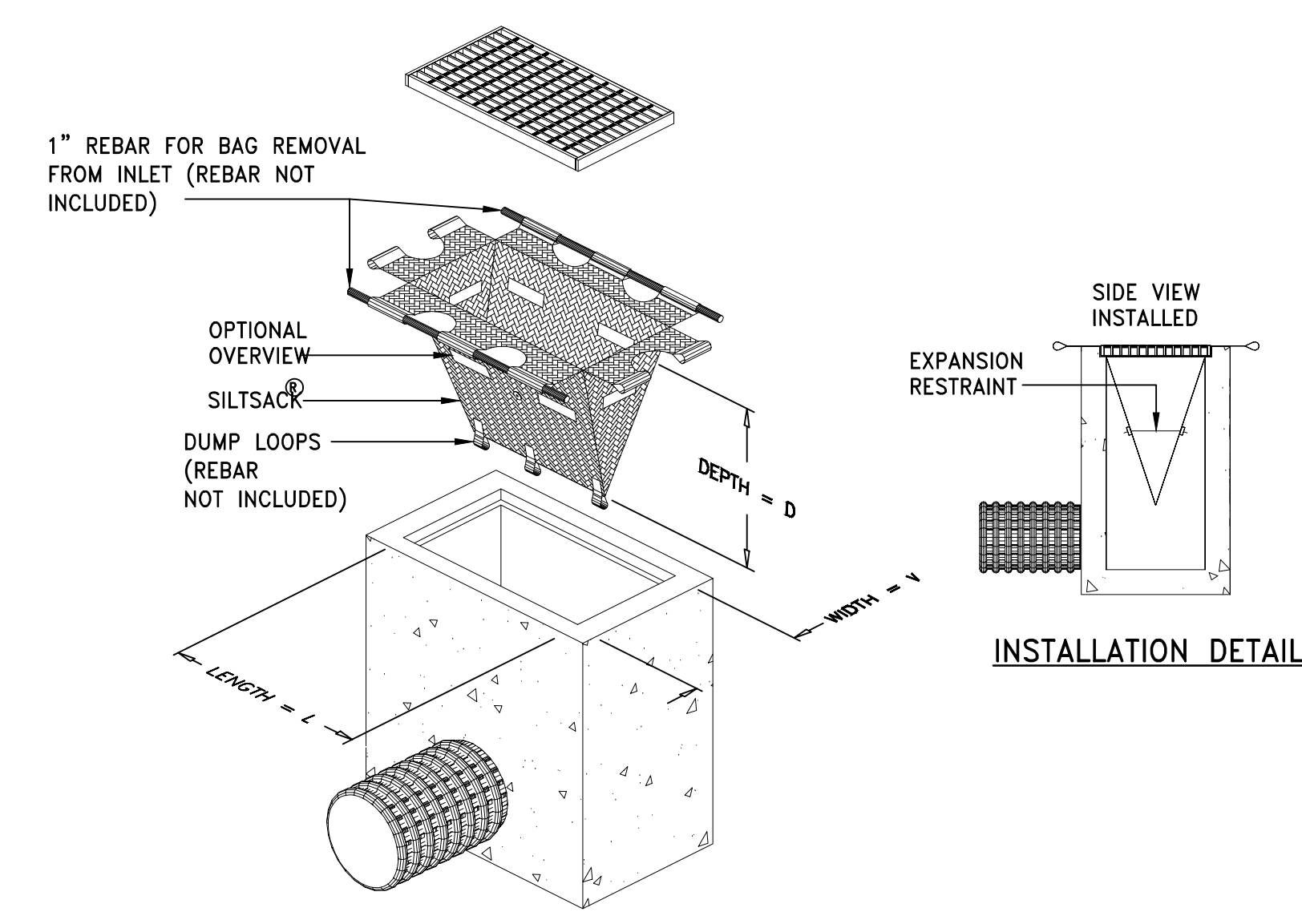
LOCATION
 SEE PROJECT PLANS FOR LOCATION OF CONSTRUCTION EXIT.

CONSTRUCTION EXIT PROTECTION STONE STABILIZATION PAD
 NOT TO SCALE

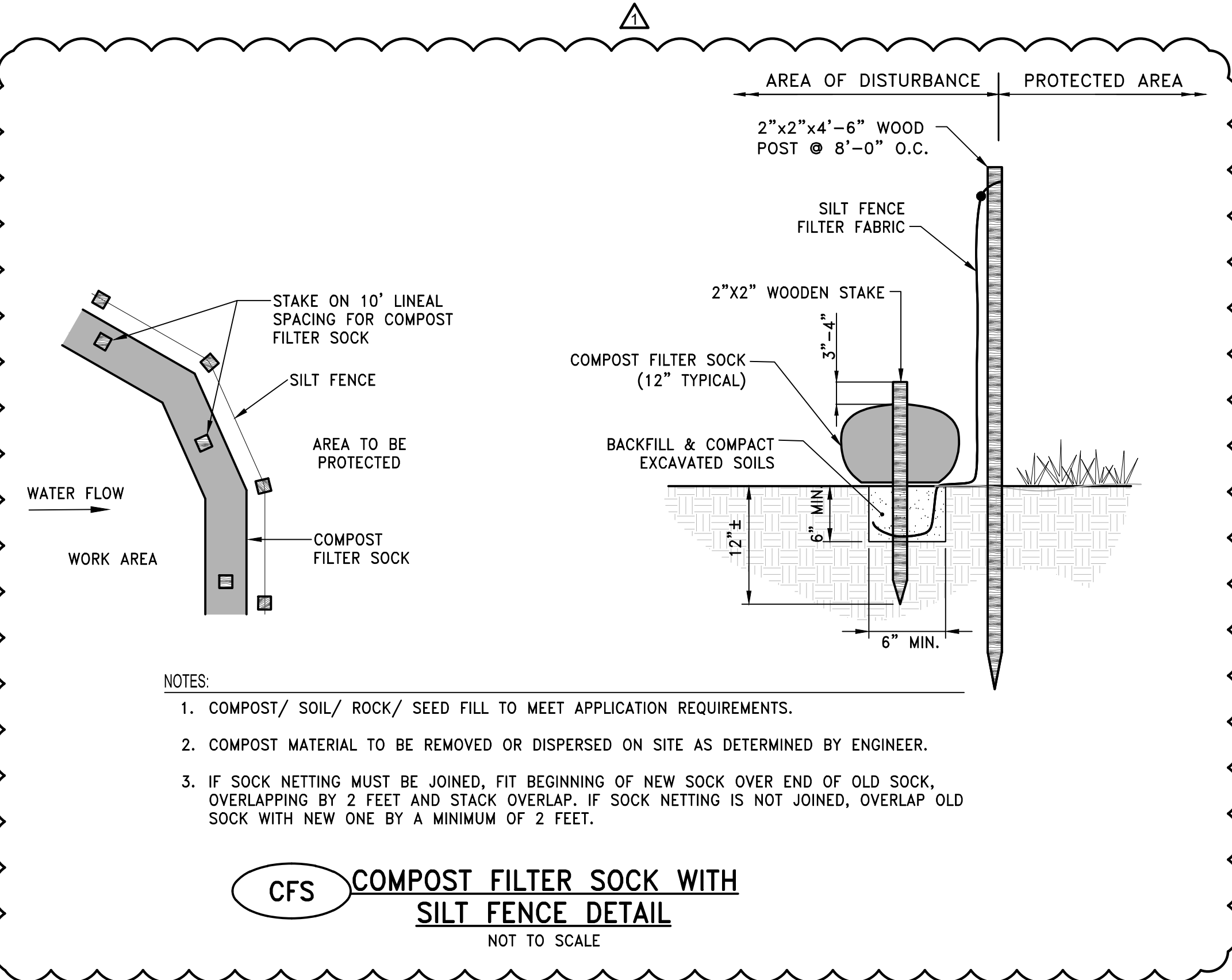


- NOTES:
1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
 2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
 3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE MASSDOT STD. M6.03.1 (EROSION SEED).

ERODIBLE MATERIAL STOCKPILE
 NOT TO SCALE

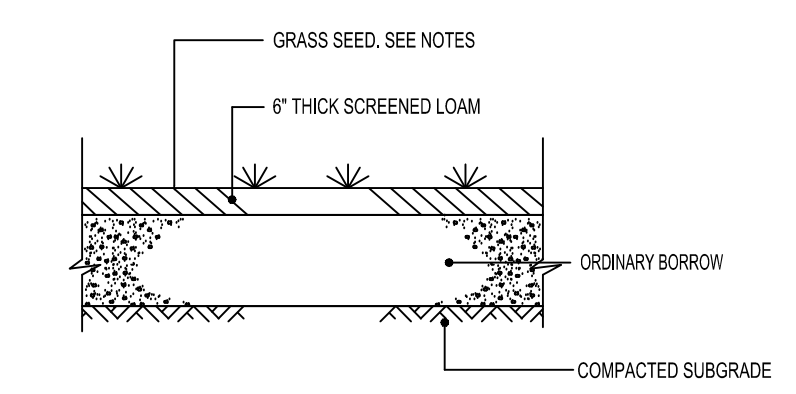


TIP TEMPORARY INLET PROTECTION
 NOT TO SCALE



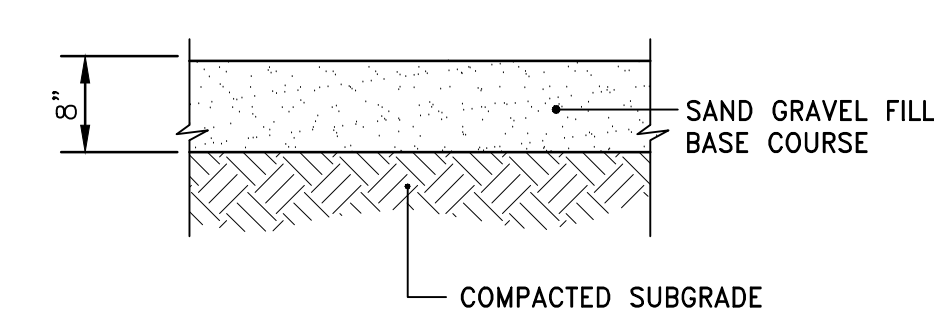
- NOTES:
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
 2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
 3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY A MINIMUM OF 2 FEET.

CFS COMPOST FILTER SOCK WITH SILT FENCE DETAIL
 NOT TO SCALE

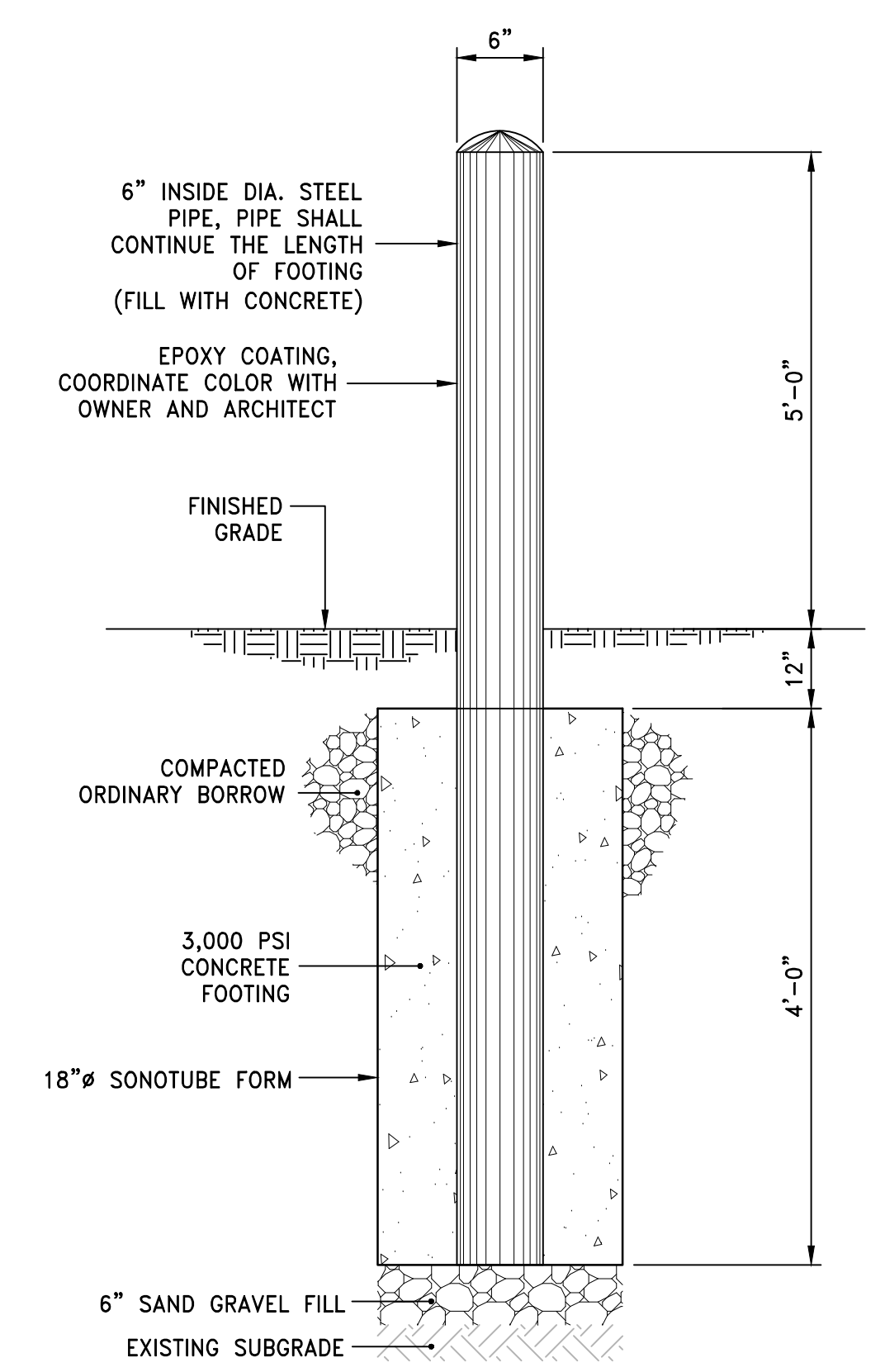


- NOTES:
1. LOAM SHALL BE IN ACCORDANCE WITH SECTION 751 OF THE MASSHIGHWAY STANDARD SPECIFICATIONS.
 2. SEEDING SHALL MEET M6.03.0 AND BE INSTALLED IN ACCORDANCE WITH SECTION 785 OF THE MASS HIGHWAY STANDARD SPECIFICATIONS.

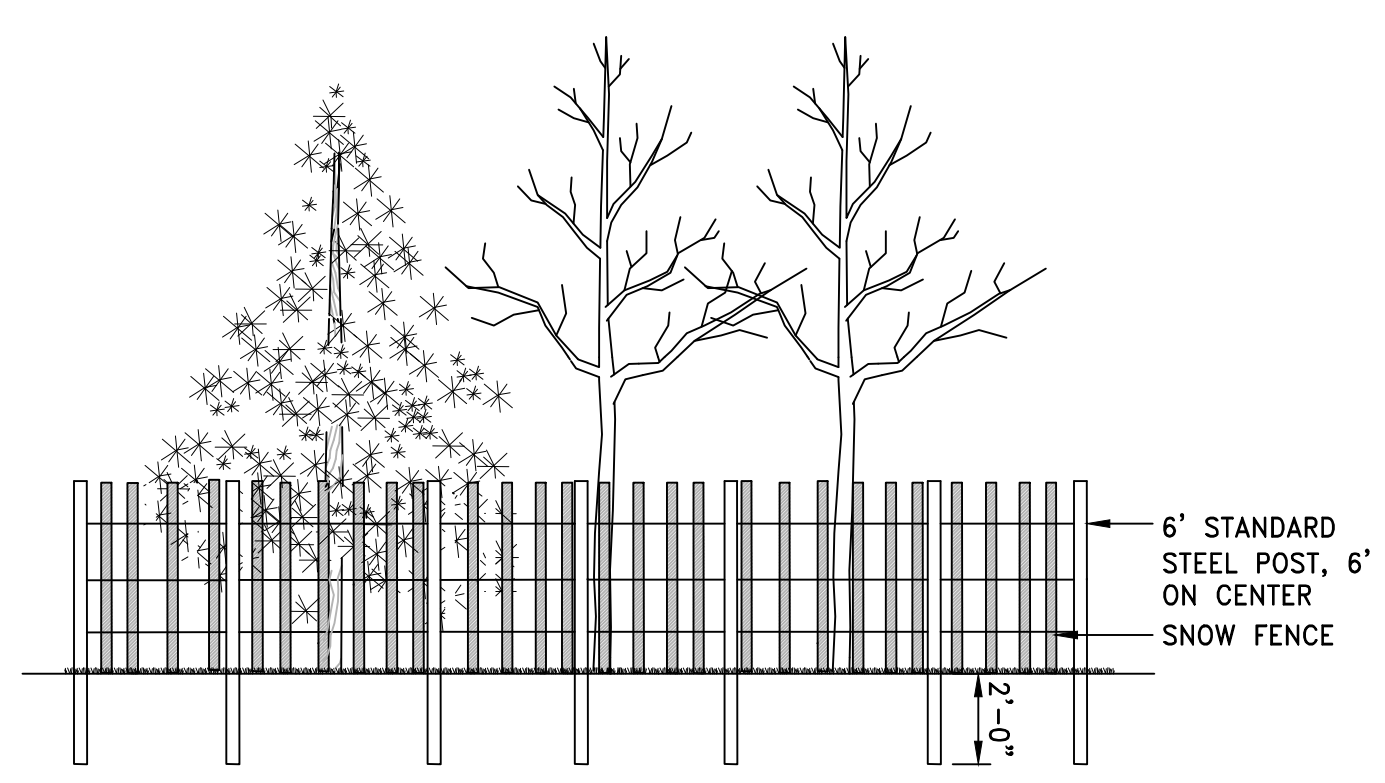
LS LOAM AND SEED
 NOT TO SCALE



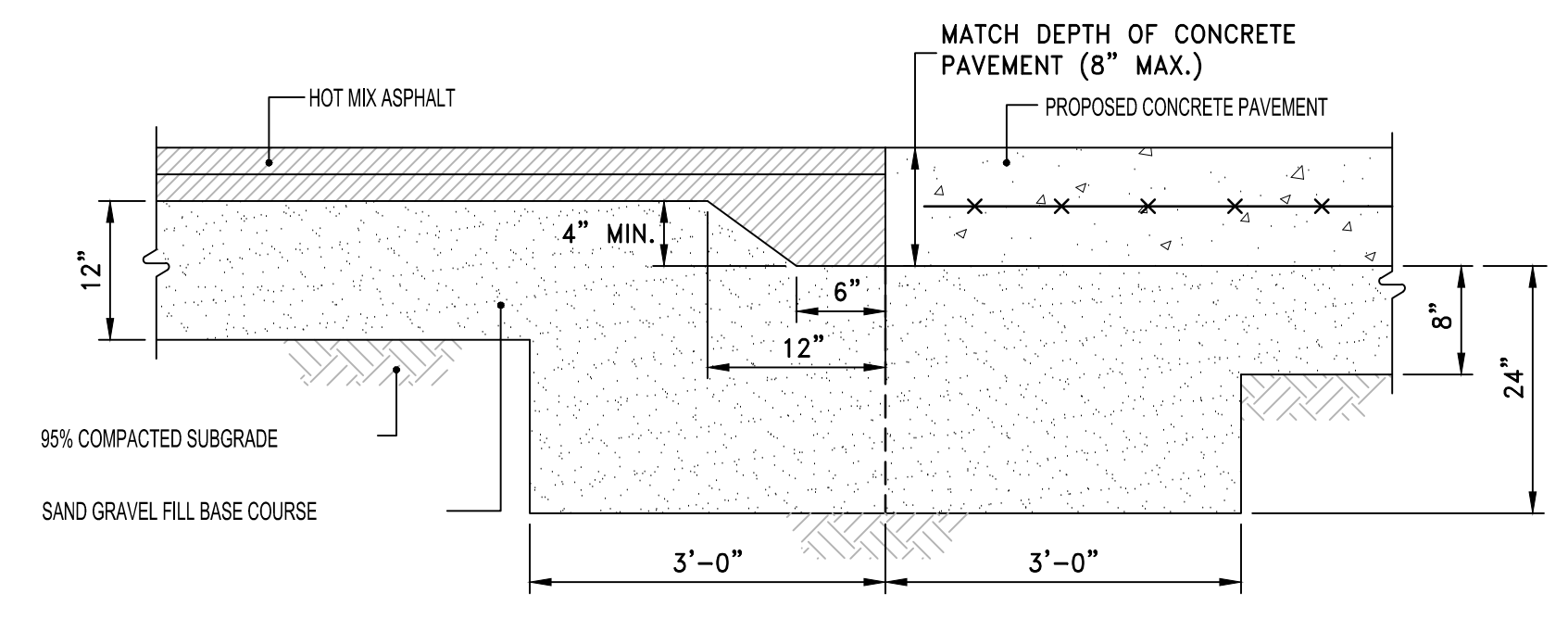
G GRAVEL DRIVE DETAIL
 NOT TO SCALE



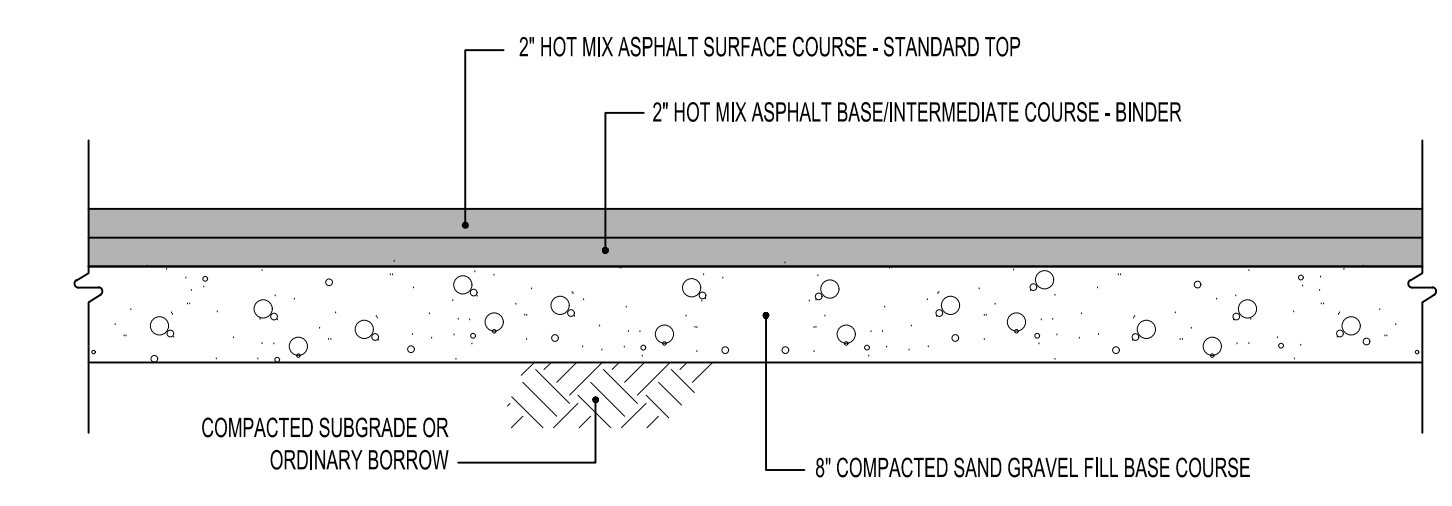
BOL BOLLARD DETAIL
 NOT TO SCALE



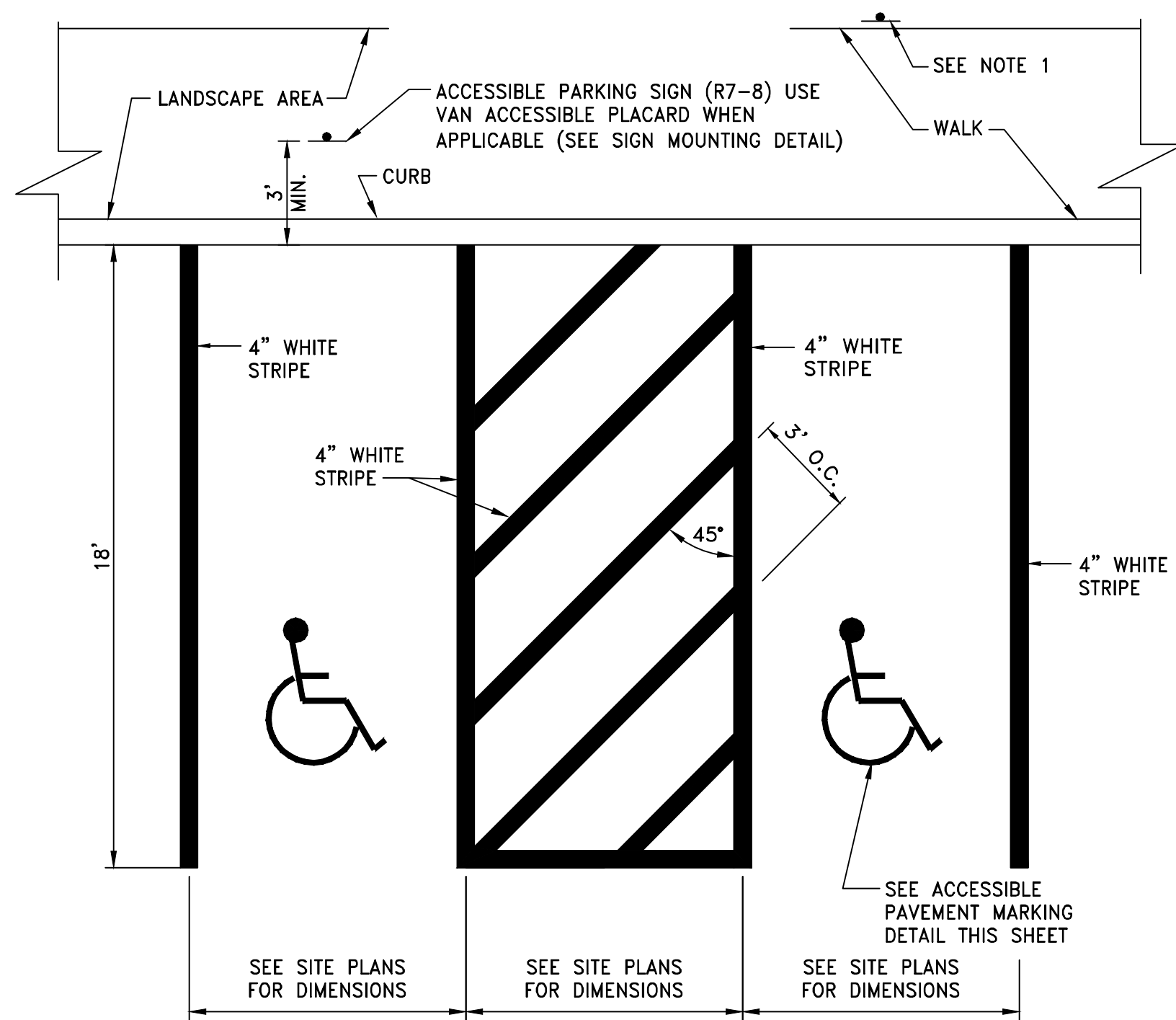
TGP TREE GROUP PROTECTION DETAIL
 NOT TO SCALE



ASPHALT TURNDOWN DETAIL
 NOT TO SCALE

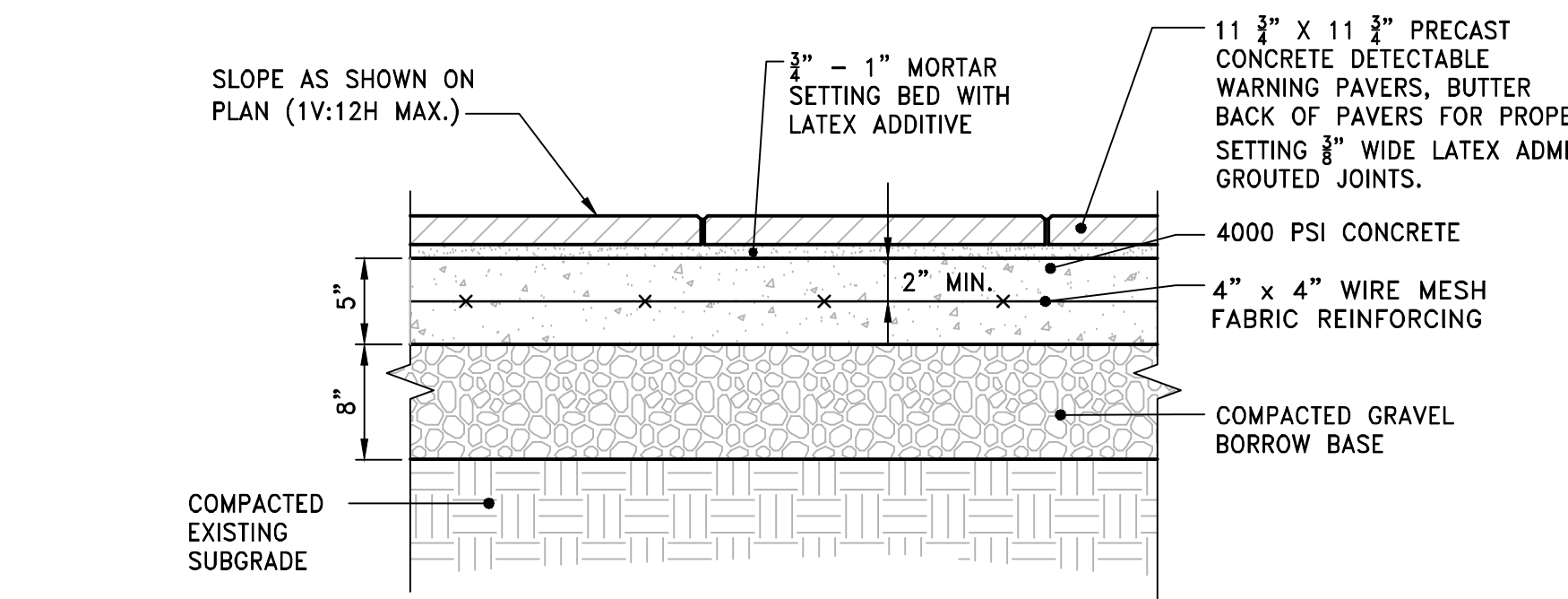


HMA HOT MIX ASPHALT PAVEMENT DETAIL
 NOT TO SCALE



NOTE:
 1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
 2. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.

ACCESSIBLE PARKING STALLS @ 90°
 NOT TO SCALE



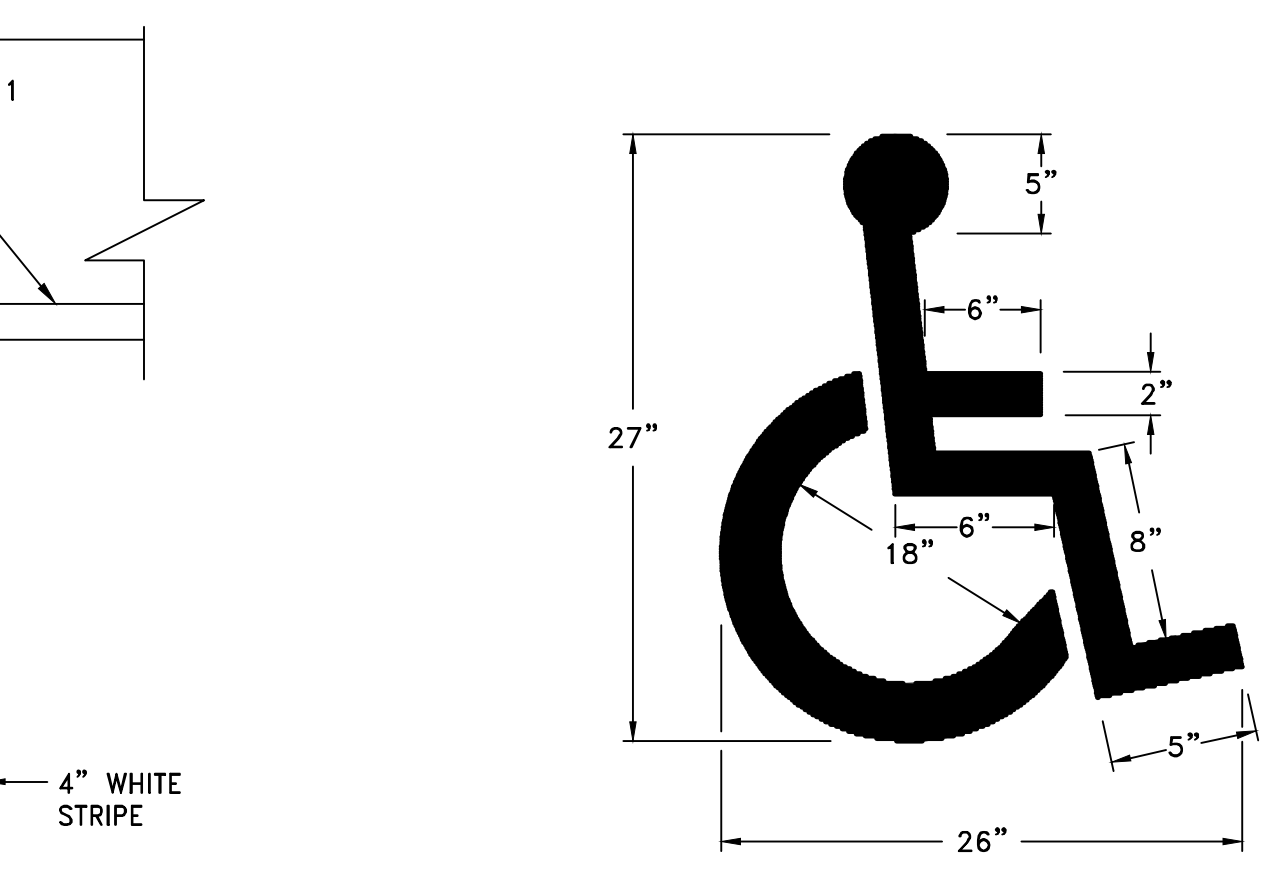
NOTE:
 1. PROVIDE EXPANSION AND CONTROL JOINTS IN CONCRETE BENEATH CONCRETE PAVERS.

DWP DETECTABLE WARNING PAVERS
 NOT TO SCALE

LEGEND	DESIGNATION	SIZE
	R7-8	(12" x 18")
	R7-8P	(12" x 6")

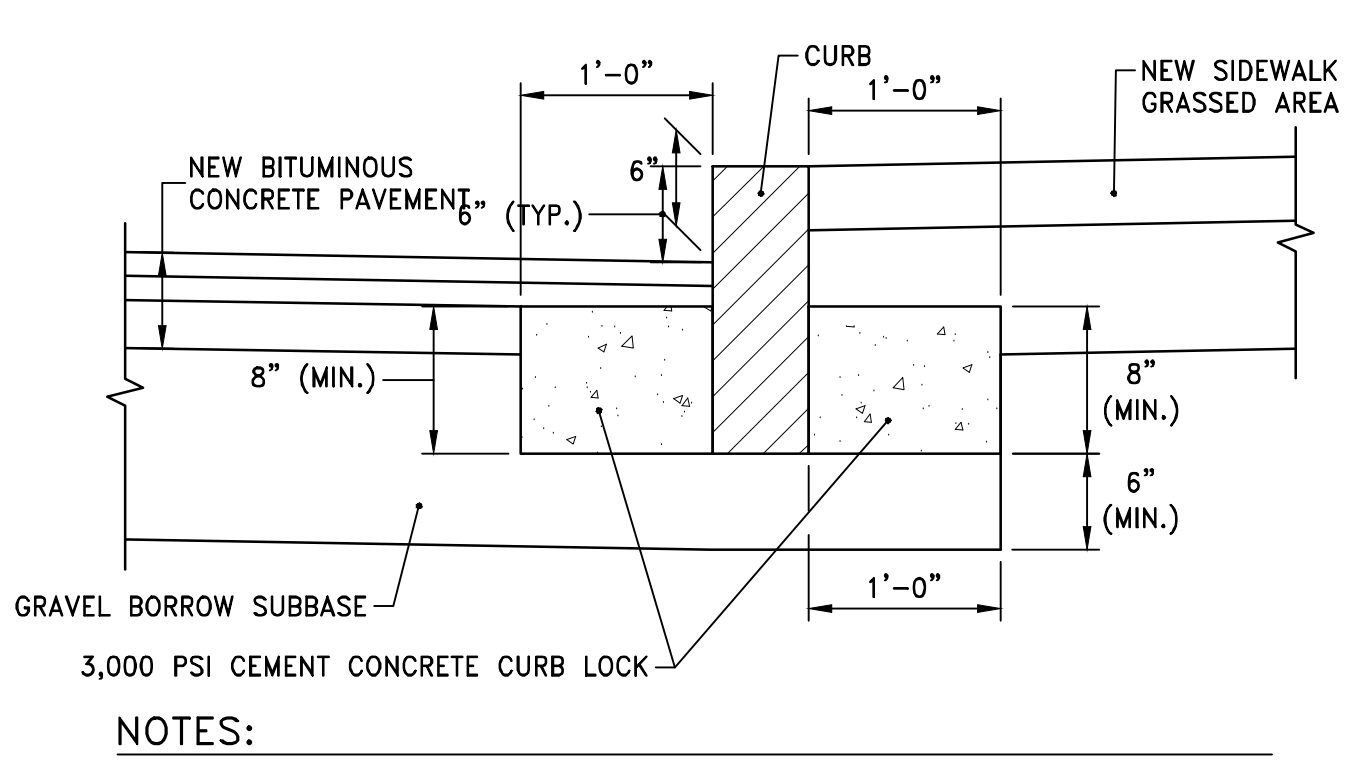
SIGN SCHEDULE

NOTE:
 1. SIGNS SHALL BE CONSTRUCTED OF TYPE III REFLECTORIZED SHEETING AND IN ACCORDANCE WITH MUTCD REQUIREMENTS.
 2. THE CONTRACTOR SHALL SUBMIT SAMPLE SIGNS TO THE OWNER FOR APPROVAL PRIOR TO FURNISHING.
 3. ALL TRAFFIC SIGNS SHALL CONFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 828.
 4. ALL SIGN MOUNTING SHALL CONFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 840.
 5. CONTRACTOR SHALL SUBMIT CUT SHEET FOR EACH SIGN. EACH SIGN SHALL CONFORM TO THE LATEST MUTCD REQUIREMENTS.



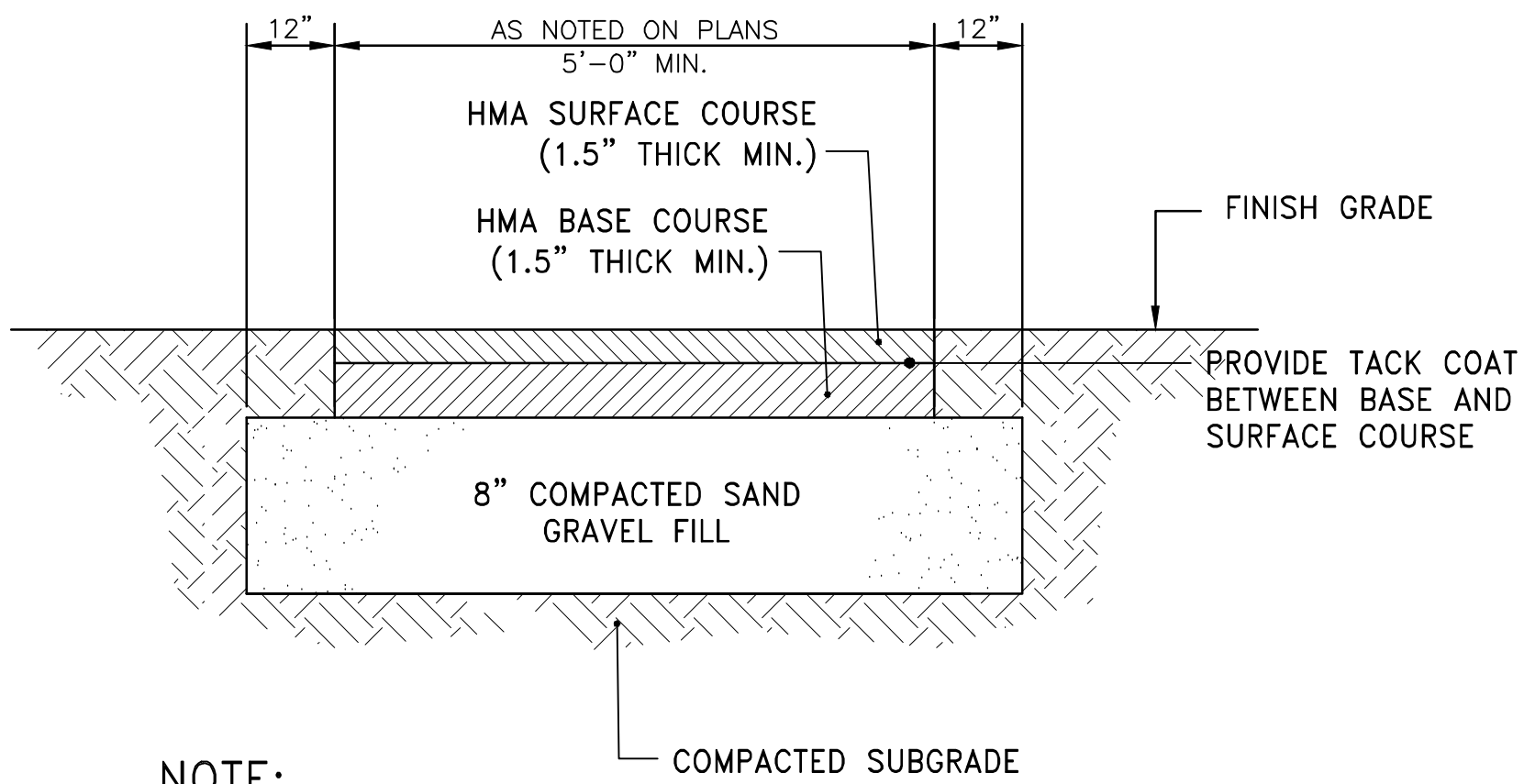
NOTE:
 ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

SHP ACCESSIBLE PAVEMENT MARKING
 NOT TO SCALE



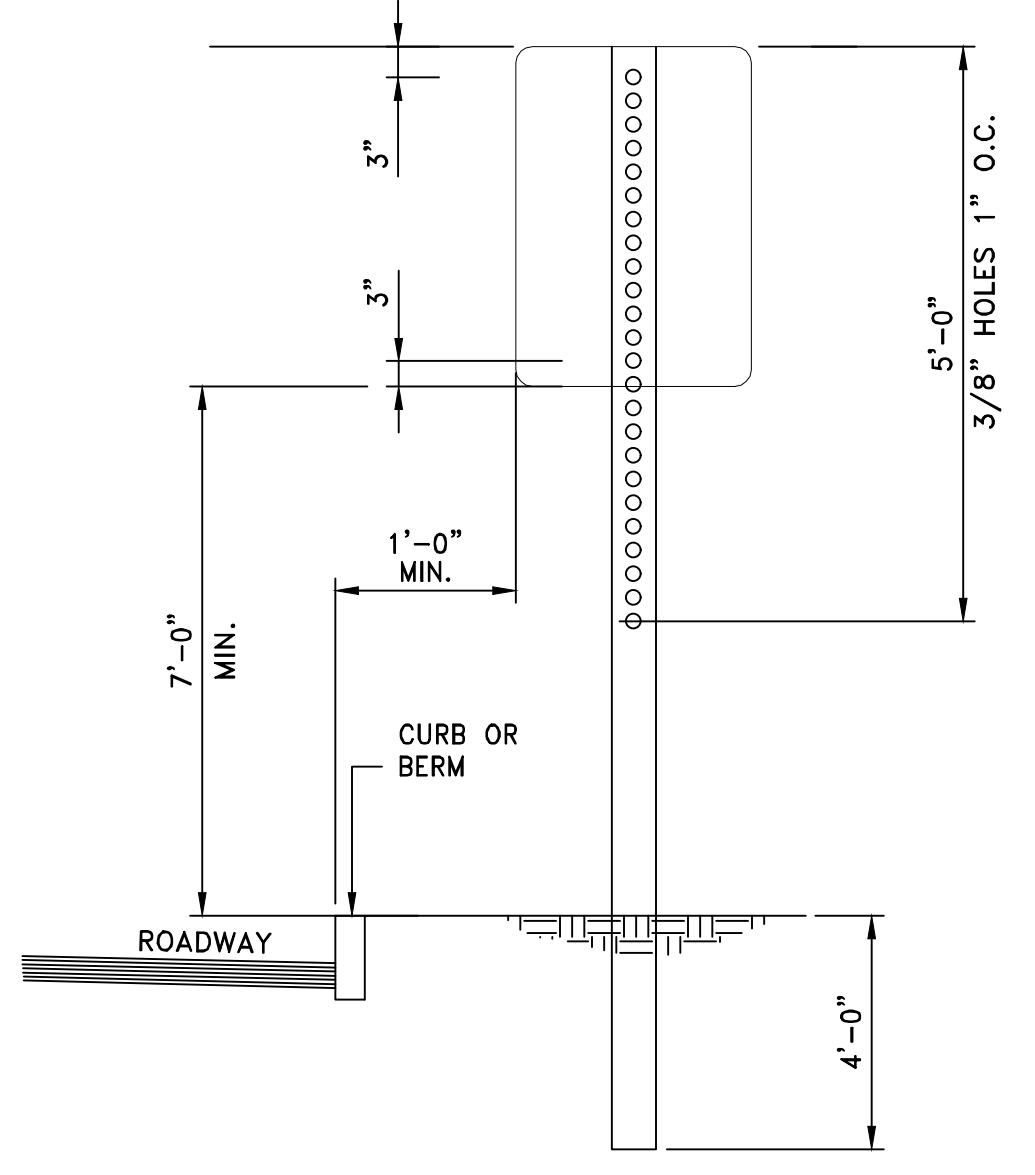
NOTES:
 1. PROVIDE CEMENT CONCRETE CURB LOCK ON ALL CURBS

CURB SETTING DETAIL
 NOT TO SCALE



NOTE:
 1. HOT MIXED ASPHALT SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 701 OF THE MASS DOT STANDARD SPECIFICATIONS.
 2. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.

HMAW TYPICAL HOT MIXED ASPHALT SIDEWALK
 NOT TO SCALE



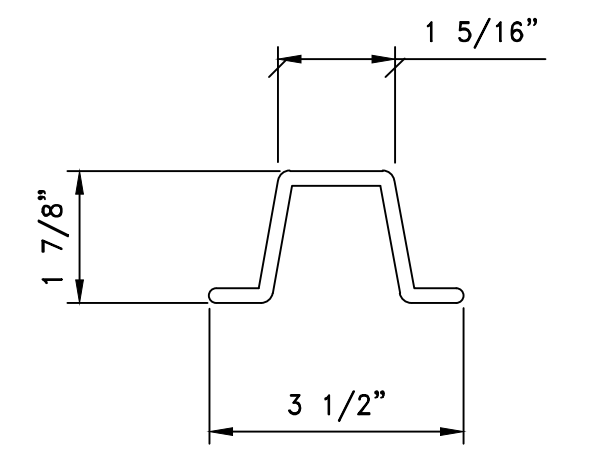
SIGN MOUNTING NOTES:
 1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
 2. WASHERS SHALL BE 0.07" THICK.
 3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES."

SIGN MOUNTING
 NOT TO SCALE

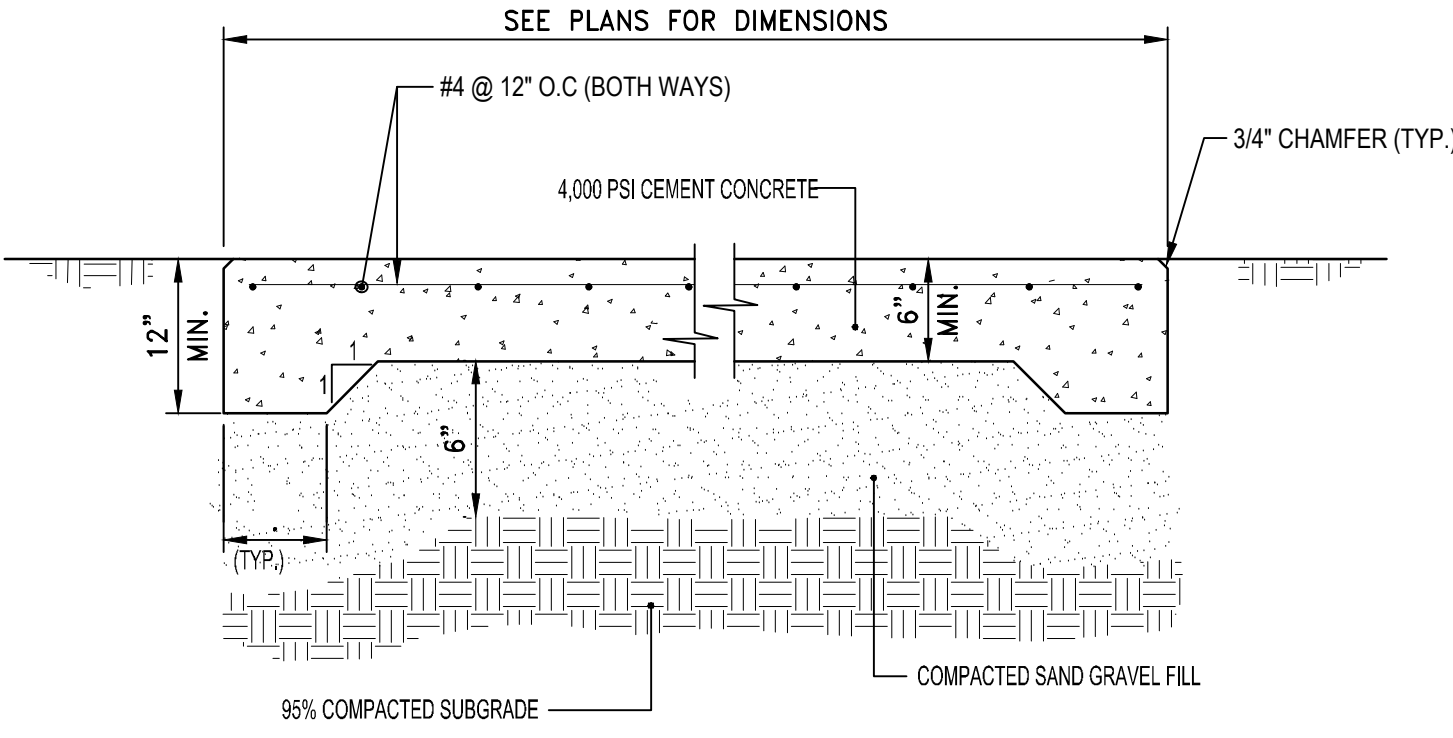
2-5/16" x 2-1/2" GALVANIZED BOLTS AND 0.070 WASHERS.

STEEL SPECIFICATION- A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY- A.S.T.M. A 123.

WT./FT.	#
3.00	4
0.484in	3
0.569in	4
0.886in	3
0.606in	3

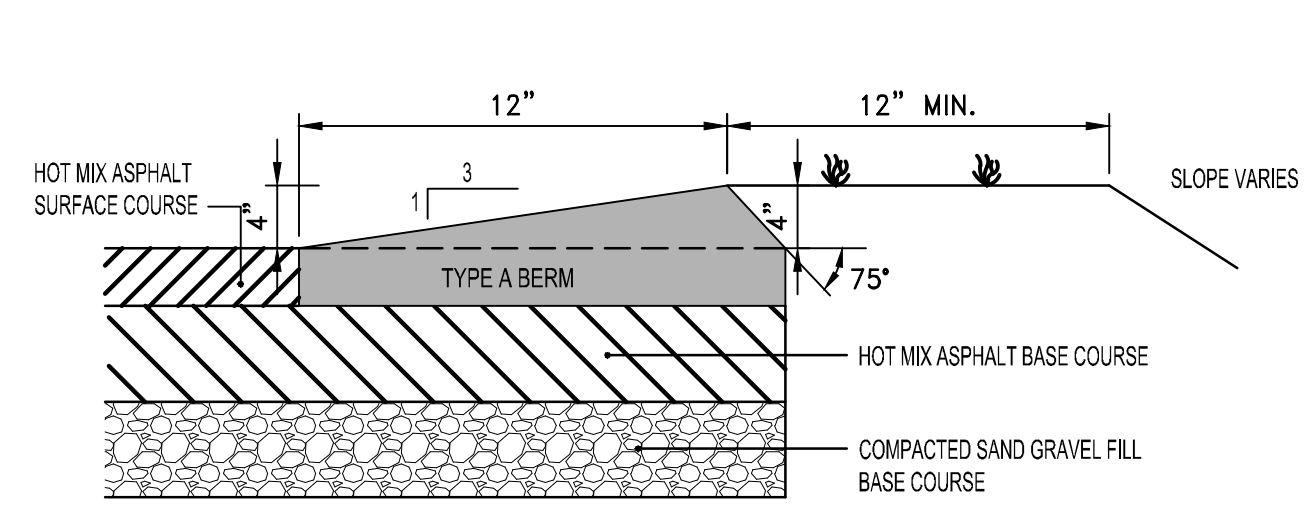


SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° A LINE PARALLEL TO THE FLOW OF TRAFFIC.

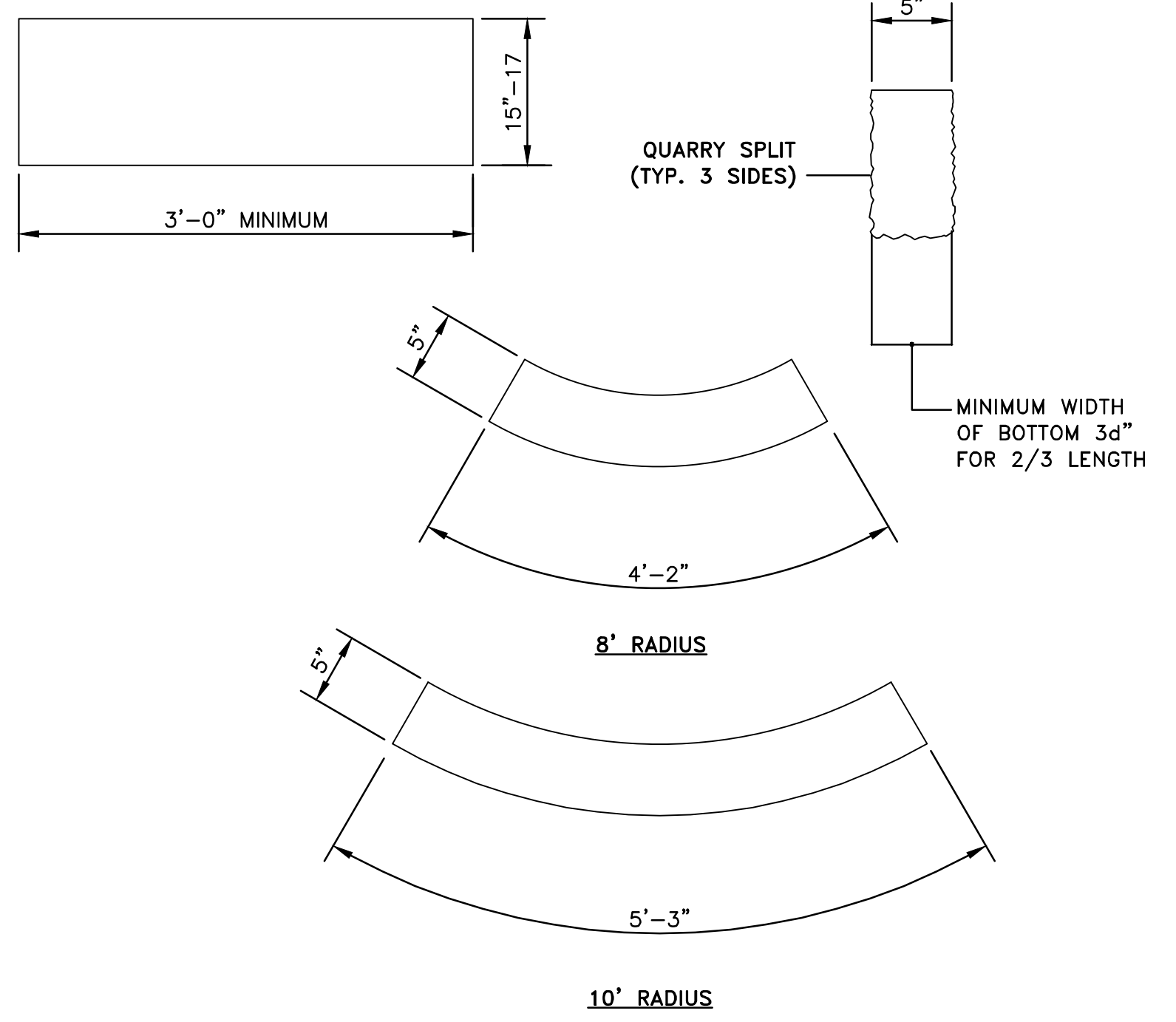


NOTES:
 1. REINFORCING TO BE #4 GRADE 60 BARS AND SHALL CONFORM TO ASTM STANDARD A-615 OF THE LATEST DATA. REINFORCING RODS TO BE LOCATED IN THE CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.
 2. CEMENT CONCRETE PAD FOR DUMPSTER PAD AND CONCRETE STAIR LOWER LANDINGS. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ENTRANCE PADS. REFER TO ELECTRICAL DRAWING FOR CONCRETE UTILITY PADS.

CP CEMENT CONCRETE PAD
 NOT TO SCALE

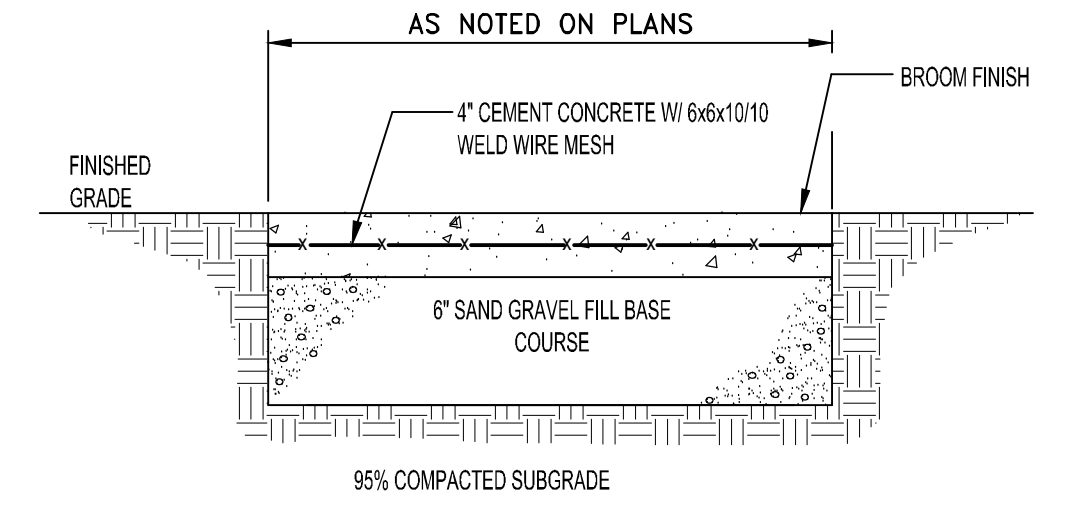


CCB CAPE COD BERM
 NOT TO SCALE



NOTES:
 1. MAXIMUM LENGTHS USING 8' & 10' RADII, WITH 90° ANGLE, ARE 4'-2" AND 5'-3" RESPECTIVELY.
 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
 3. TOP SURFACE TO BE DRESSED BY SAW.
 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 100' OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 100' RADIUS.
 5. GRANITE CURB SHALL CONFORM TO M.H.D. STD. SPECIFICATION MATERIALS SECTION M9.04.1 GRANITE CURB, TYPE VB.

VGC VERTICAL GRANITE CURB
 NOT TO SCALE

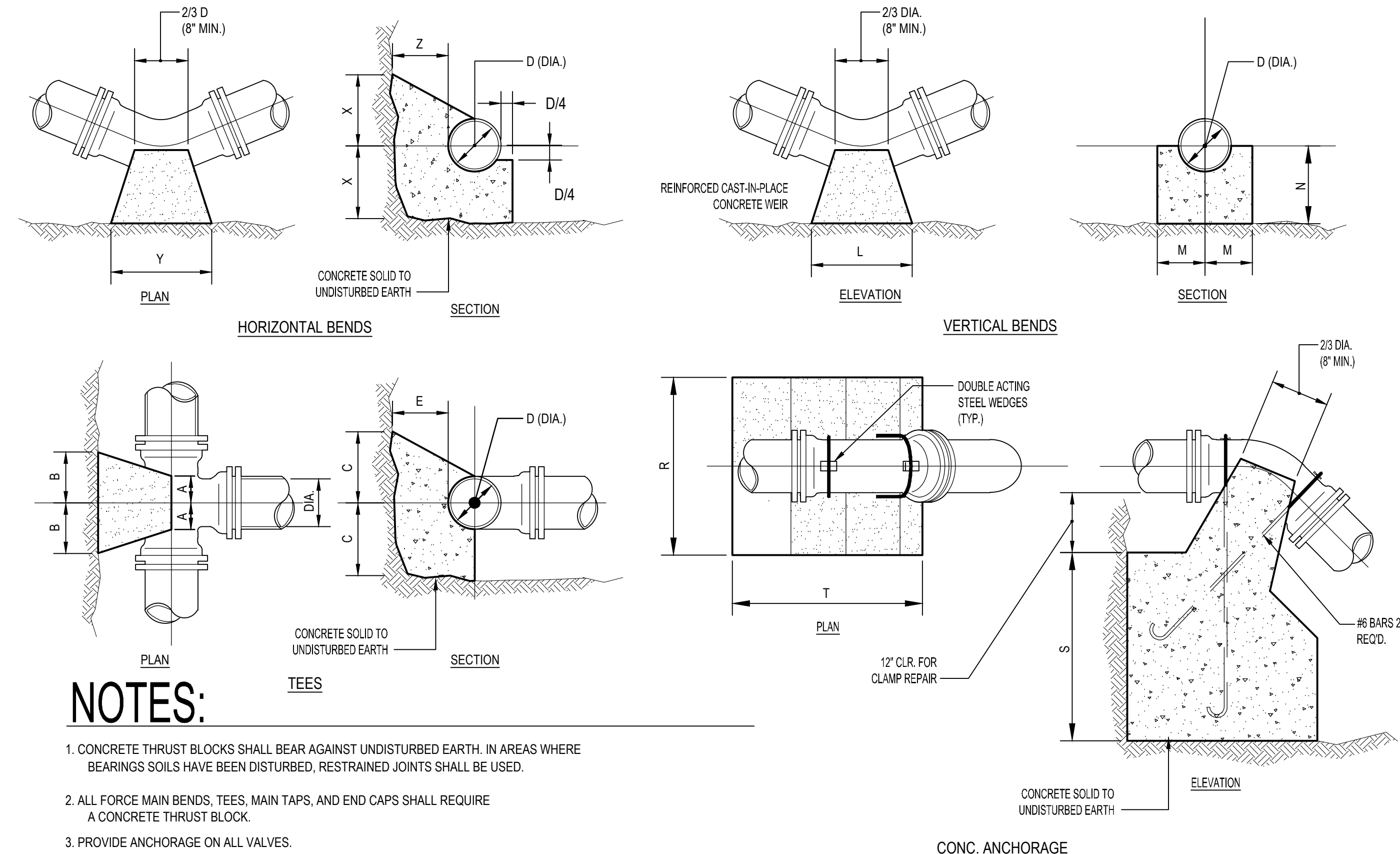


NOTES:
 1. CONCRETE SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 476 OF THE MASSHIGHWAY STANDARD SPECIFICATIONS.
 2. WIRE MESH SHALL BE IN ACCORDANCE WITH SECTION 18.01.2 OF THE MASSHIGHWAY STANDARD SPECIFICATIONS.
 3. EXPANSION JOINTS (E.J.) 20' O.C. UNLESS OTHERWISE NOTED.
 4. CONTROL JOINTS (C.J.) 5' O.C. UNLESS OTHERWISE NOTED.

CCW TYPICAL CEMENT CONCRETE SIDEWALK
 NOT TO SCALE

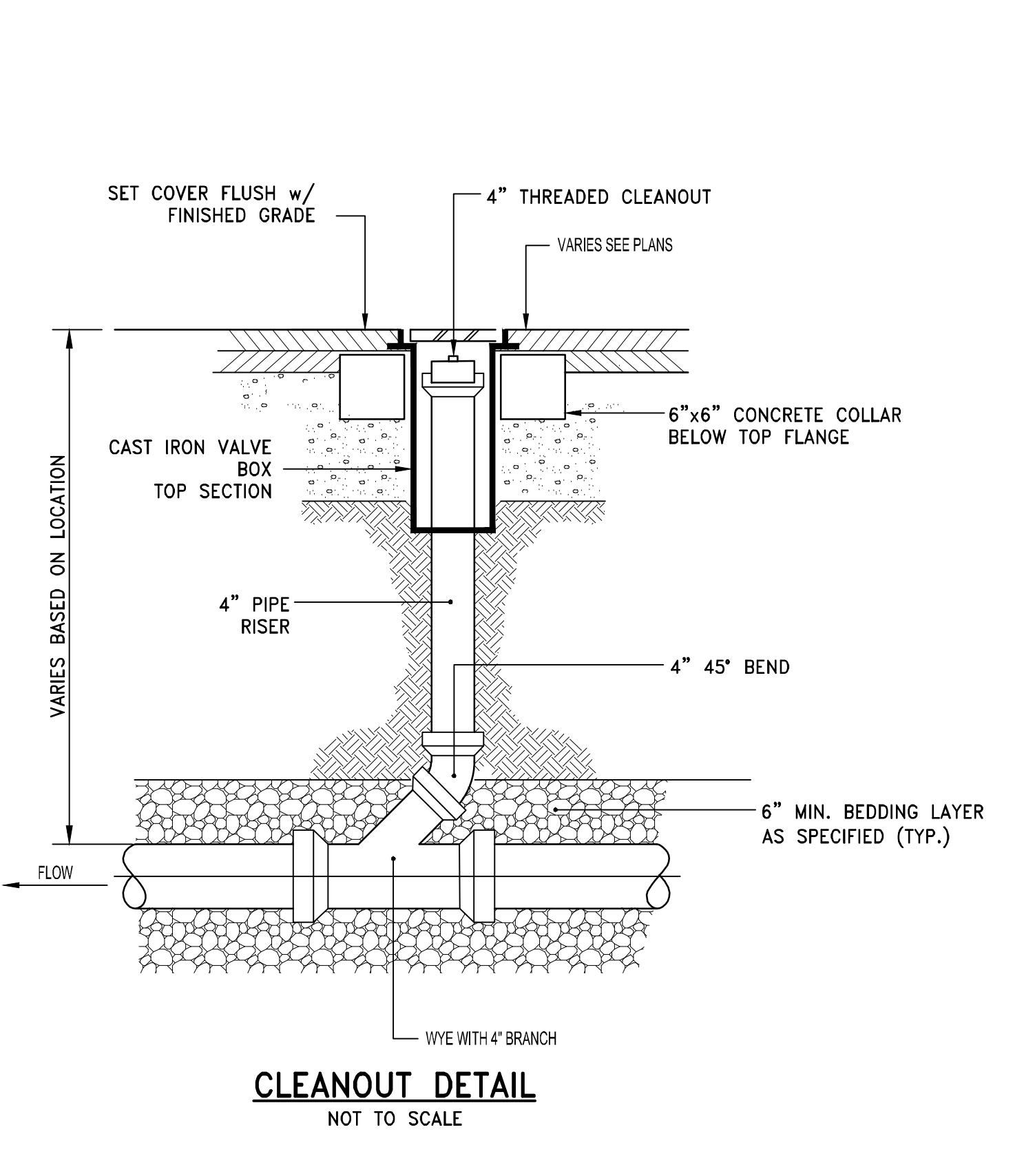
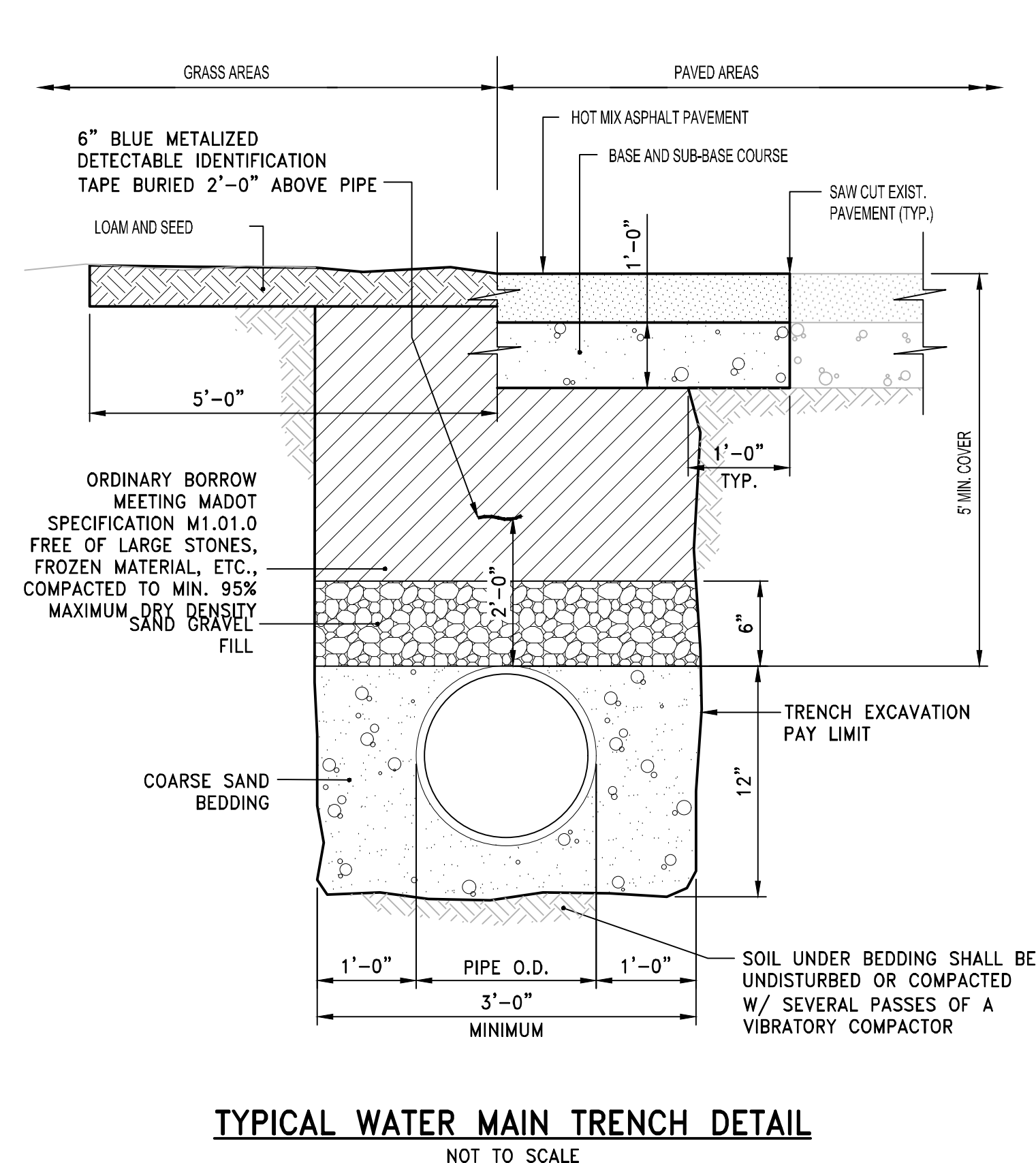
REVISIONS:

NO.	DATE	DESCRIPTION

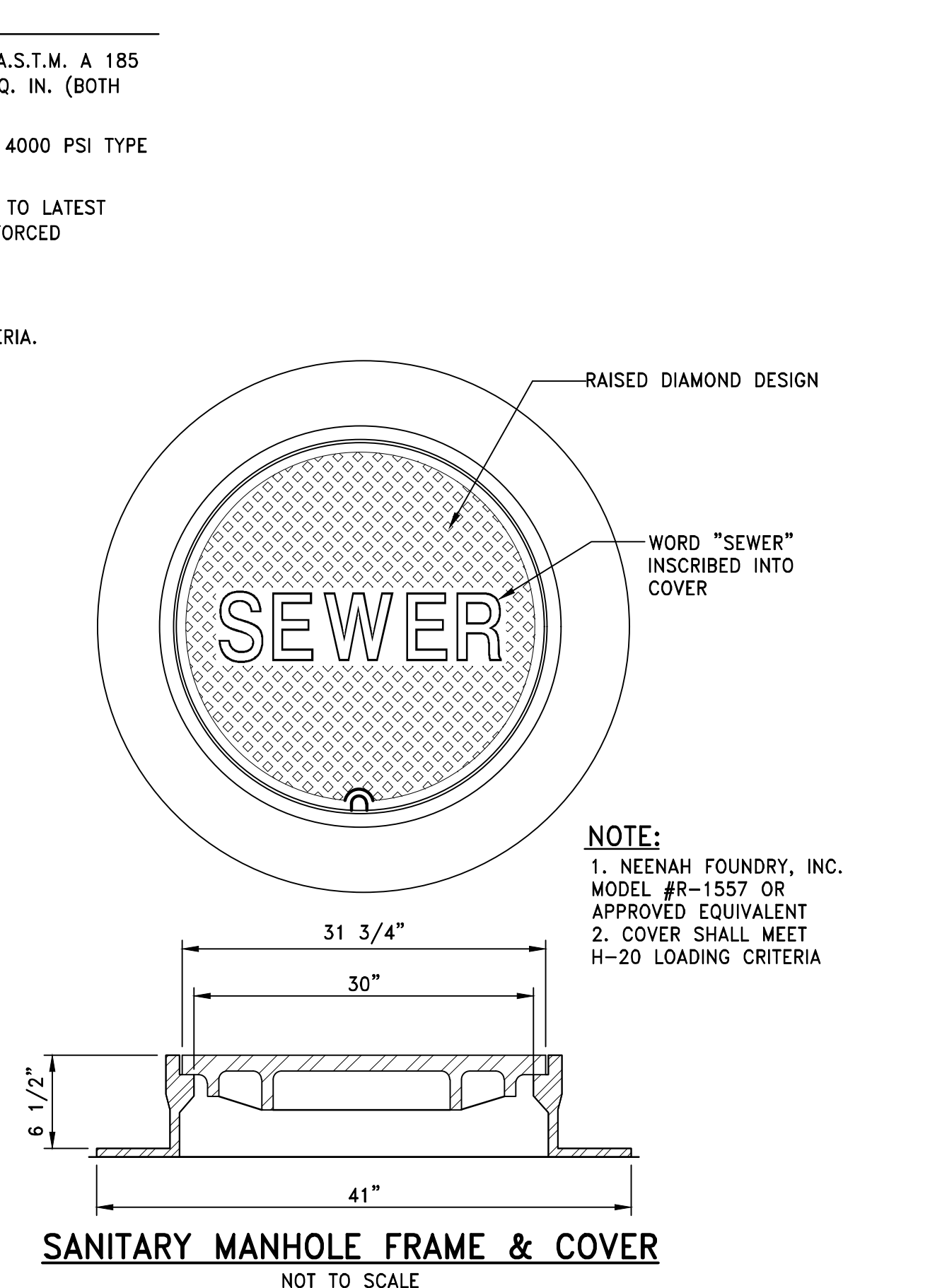
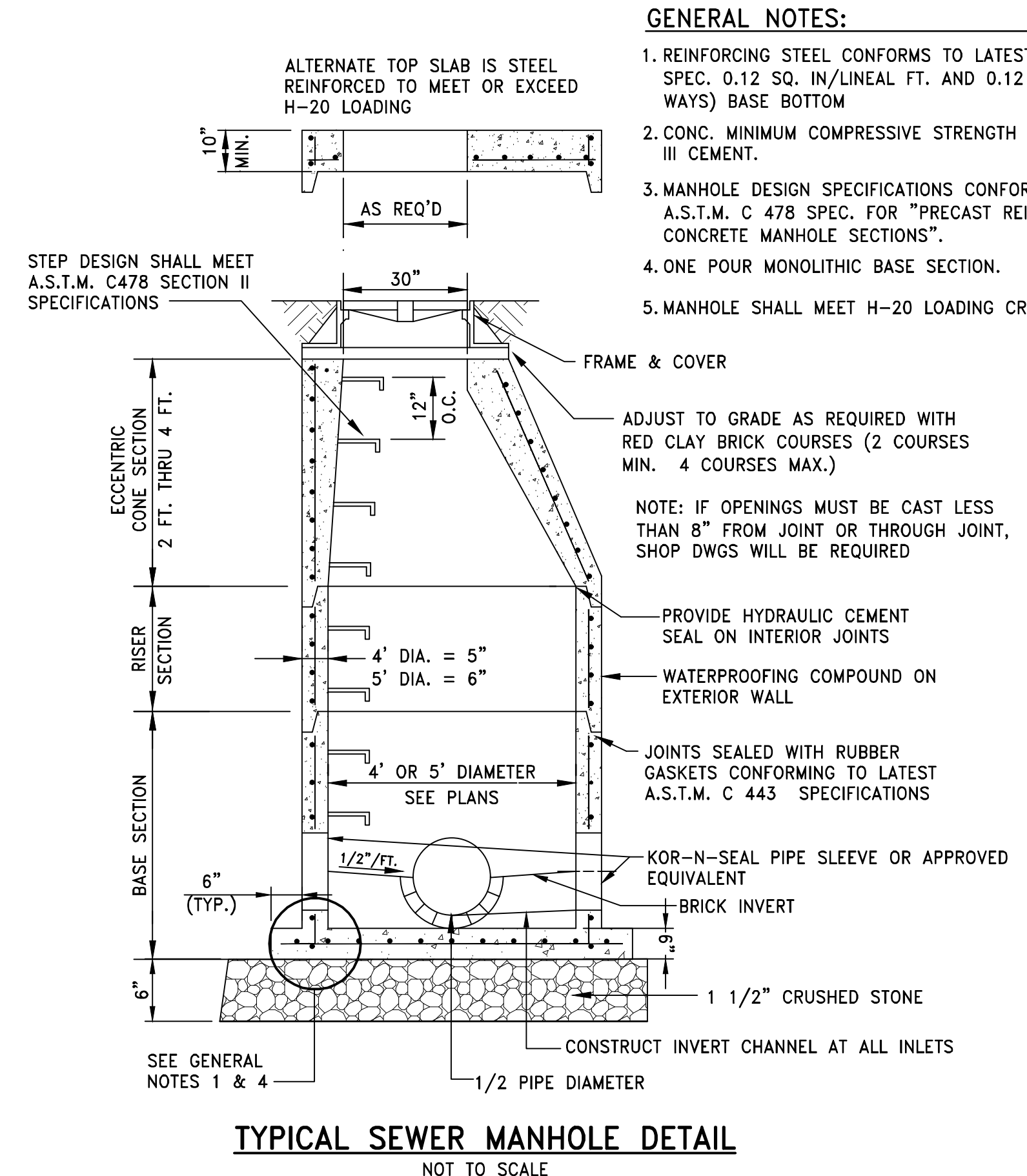
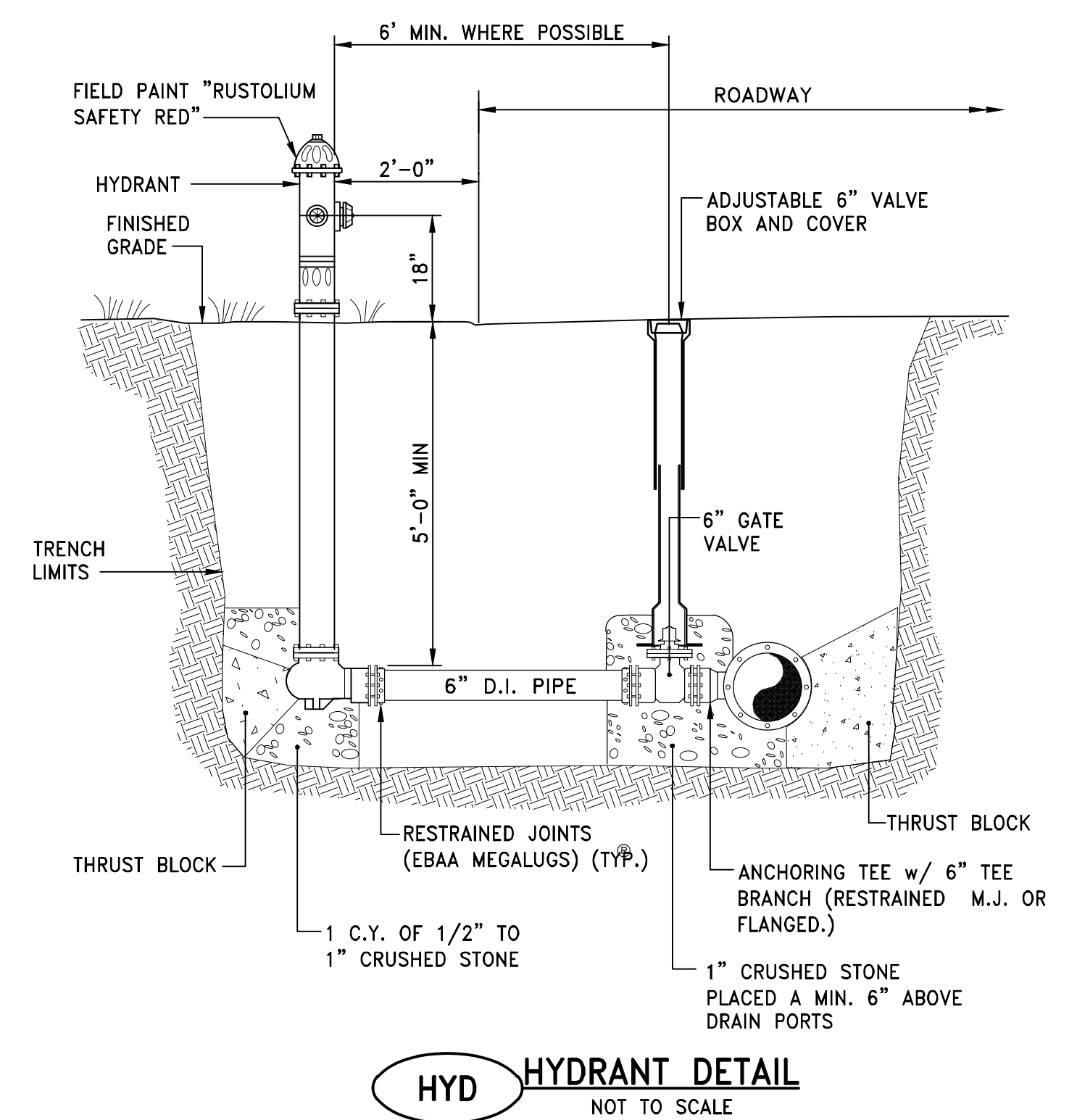
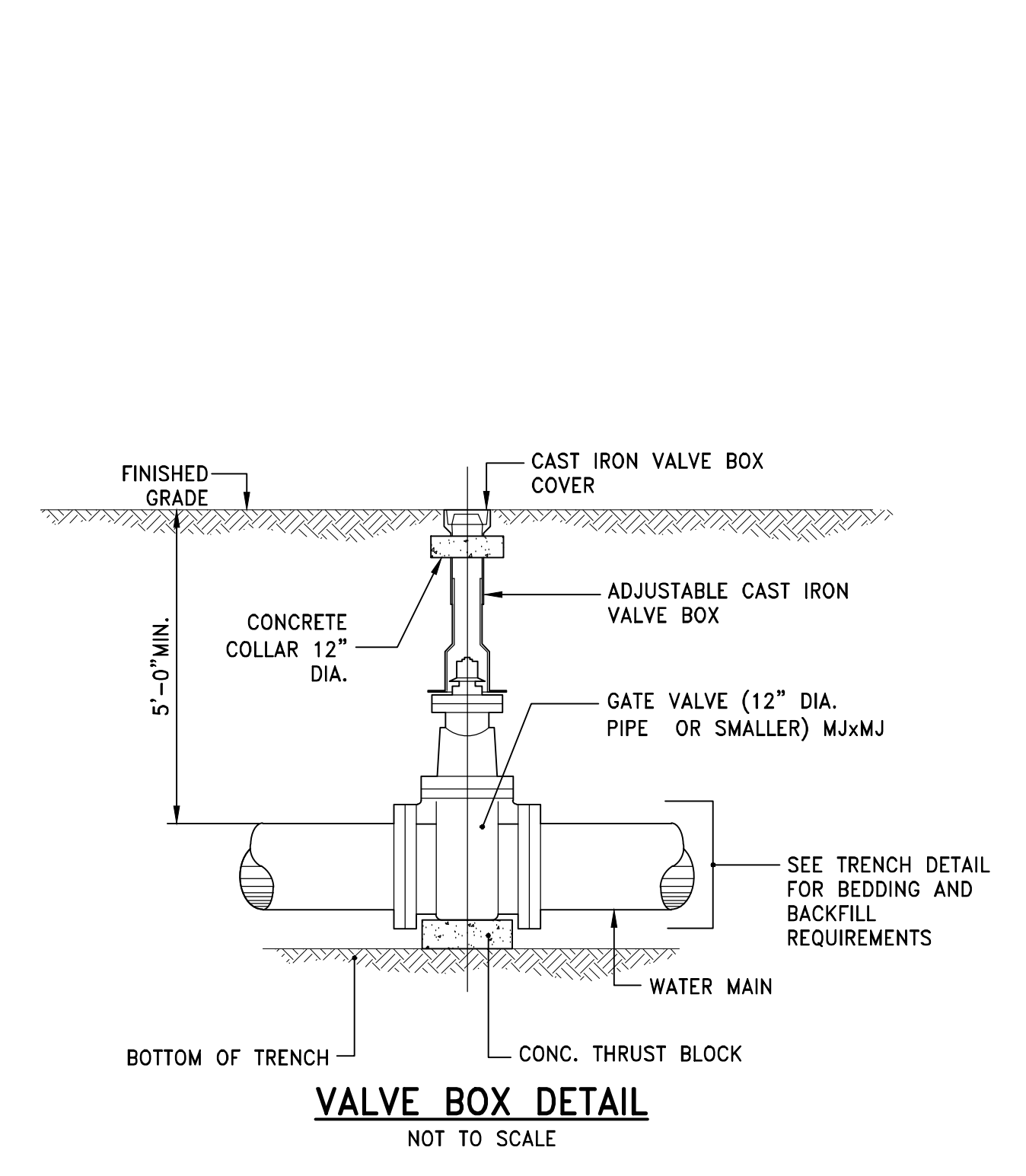


- NOTES:**
1. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.
 2. ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.
 3. PROVIDE ANCHORAGE ON ALL VALVES.

TEES					HORIZONTAL BENDS					VERTICAL BENDS					ANCHORAGES				
PIPE SIZE-D (DIA.)					PIPE SIZE-D (DIA.)					PIPE SIZE-D (DIA.)					PIPE SIZE-D (DIA.)				
BEND	A	8"	8"	10"	BEND	X	1'-0"	1'-0"	1'-4"	BEND	L	2'-0"	2'-0"	2'-8"	BEND	R	2'-6"	2'-6"	3'-0"
	B	1'-2"	1'-2"	1'-6"		Y	2'-0"	2'-0"	2'-8"		M	1'-0"	1'-0"	1'-4"		S	2'-6"	2'-6"	2'-9"
	C	1'-2"	1'-2"	1'-6"		Z	8"	8"	10"		N	7"	7"	8"		T	3'-0"	3'-0"	4'-0"
	E	8"	8"	10"		X	1'-0"	1'-0"	1'-4"		L	2'-0"	2'-0"	2'-8"		R	2'-0"	2'-0"	2'-8"
BEND	X	1'-0"	1'-0"	1'-4"	BEND	Y	2'-0"	2'-0"	2'-8"	BEND	M	1'-0"	1'-0"	1'-4"	BEND	S	1'-9"	1'-9"	2'-3"
	Z	8"	8"	10"		Z	8"	8"	10"		N	7"	7"	7"		T	2'-8"	2'-8"	3'-4"
	X	1'-0"	1'-0"	1'-4"		X	1'-0"	1'-0"	1'-4"		L	8"	8"	8"		R	1'-8"	1'-8"	2'-0"
	Z	8"	8"	10"		Y	1'-0"	1'-0"	1'-4"		M	7"	7"	7"		S	1'-3"	1'-3"	1'-9"
BEND	X	1'-0"	1'-0"	1'-4"	BEND	Y	1'-0"	1'-0"	1'-4"	BEND	M	7"	7"	7"	BEND	S	1'-3"	1'-3"	1'-9"
	Z	8"	8"	10"		Z	8"	8"	10"		N	7"	7"	7"		T	2'-0"	2'-0"	2'-6"

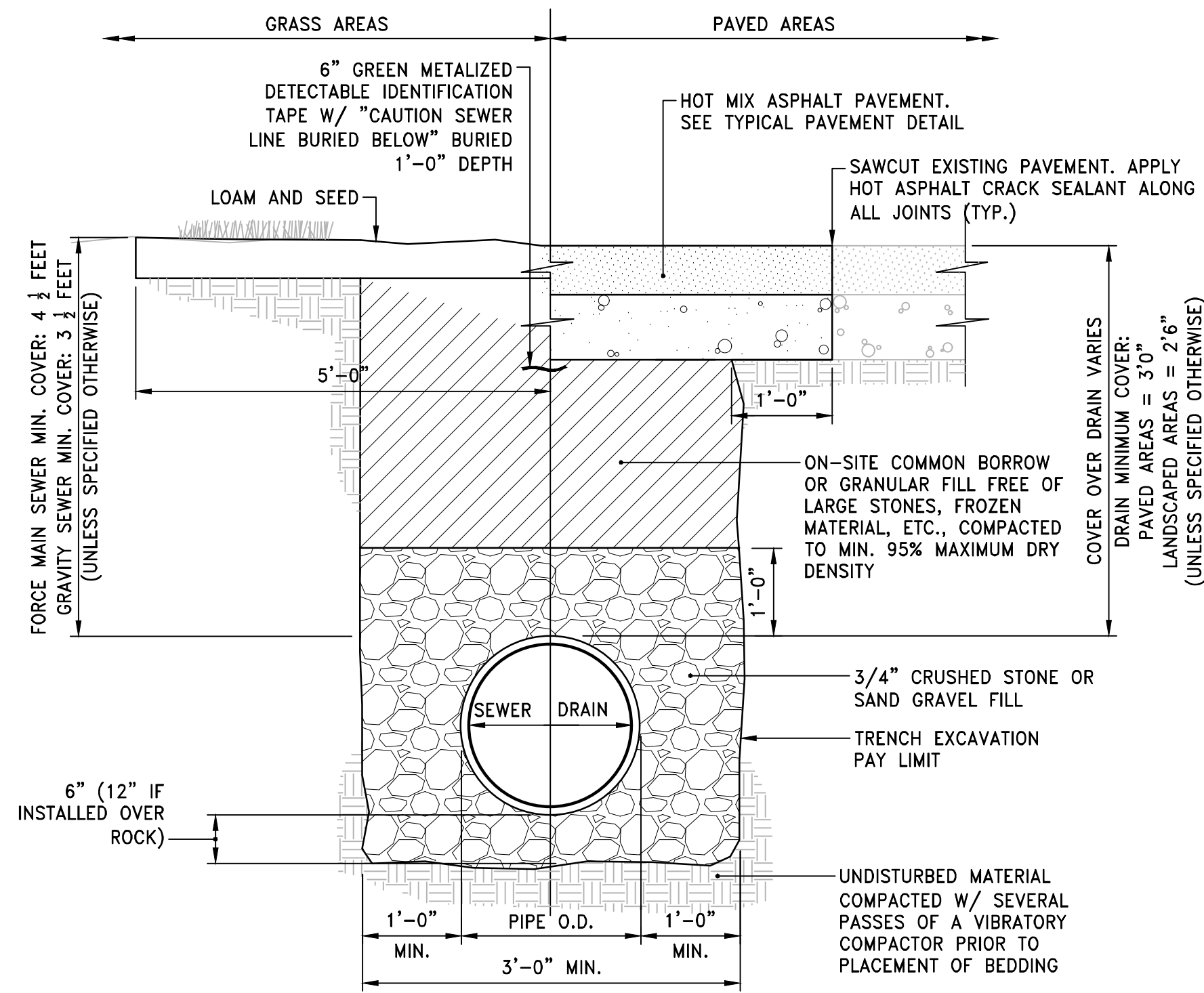


CONCRETE THRUST BLOCKS
 NOT TO SCALE



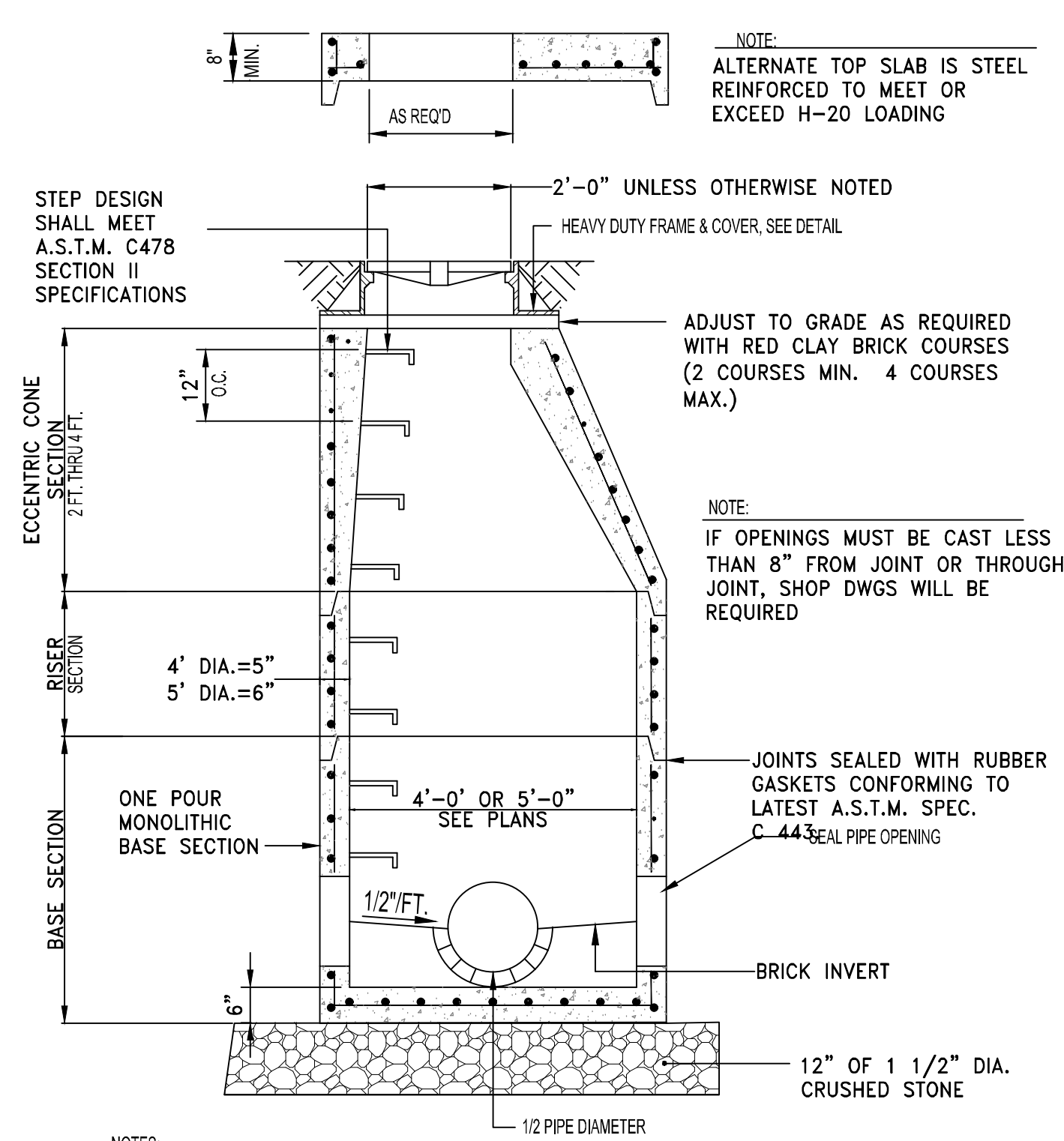
- GENERAL NOTES:**
1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
 2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
 3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
 4. ONE POUR MONOLITHIC BASE SECTION.
 5. MANHOLE SHALL MEET H-20 LOADING CRITERIA.

NOTE:
 1. NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT
 2. COVER SHALL MEET H-20 LOADING CRITERIA



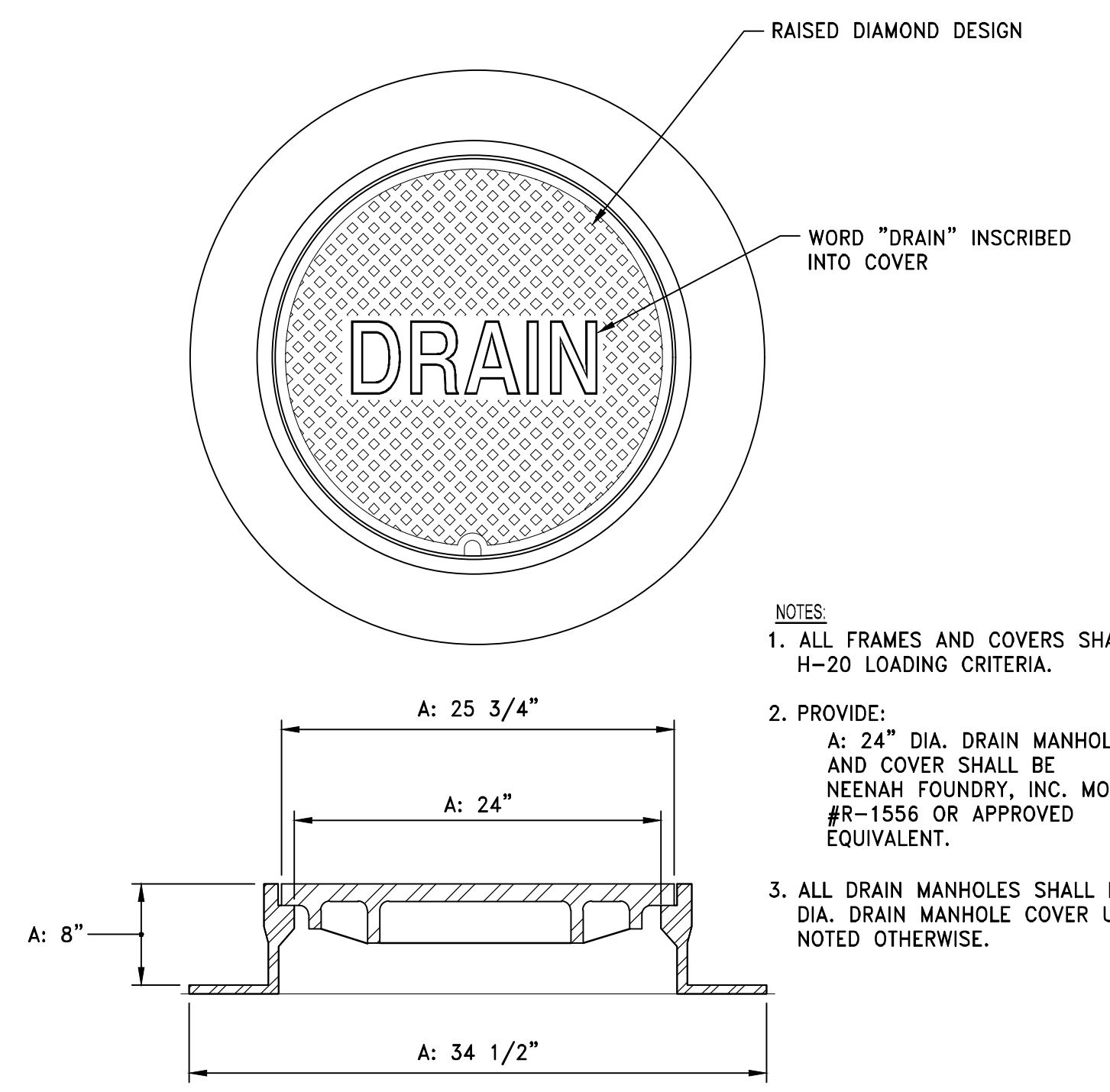
- NOTES:**
- WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
 - 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

SEWER/RAIN TRENCH DETAIL
NOT TO SCALE



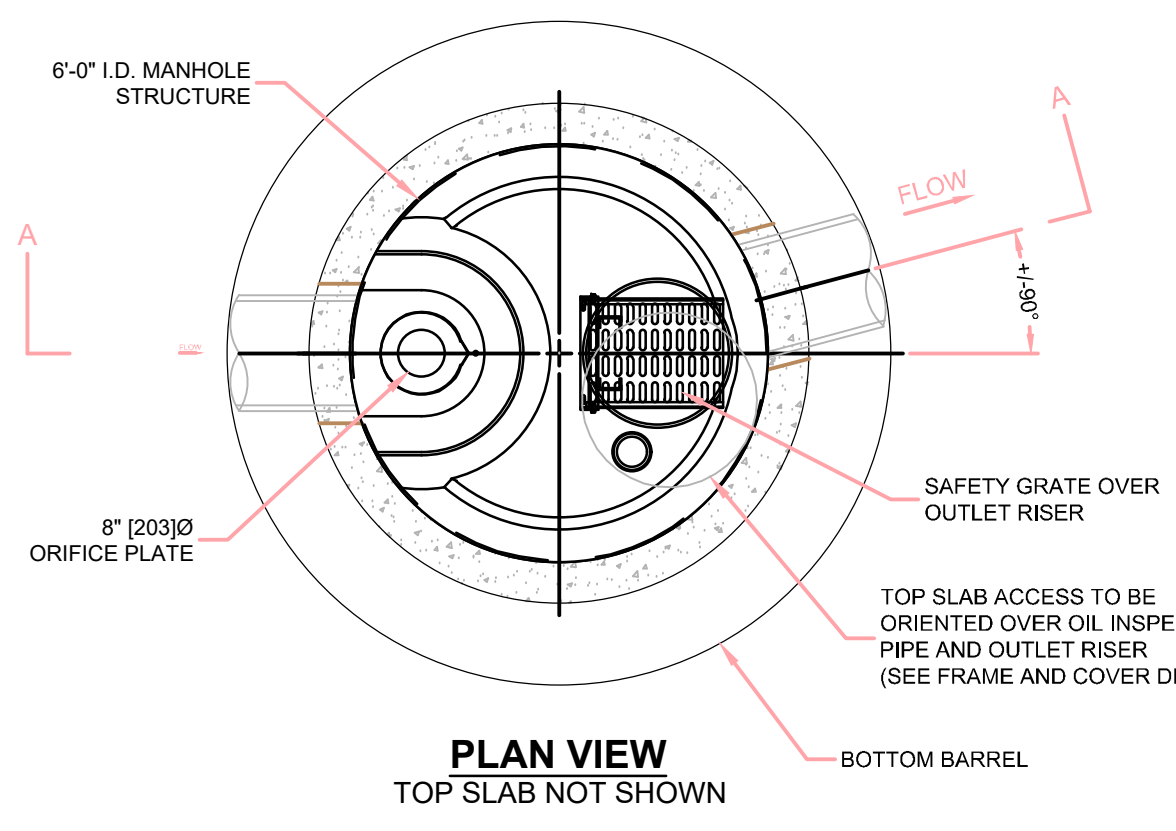
- NOTES:**
- STEEL REINFORCEMENT FOR BASE SECTION SHALL BE 0.12 SQ. IN./LF.
 - CIRCUMFERENTIAL STEEL REINFORCEMENT SHALL BE 0.15 SQ. IN./LF. MINIMUM.
 - STRUCTURE SHALL CONFORM TO MASS HIGHWAY SPECIFICATIONS.

TYPICAL DRAIN MANHOLE DETAIL
NOT TO SCALE

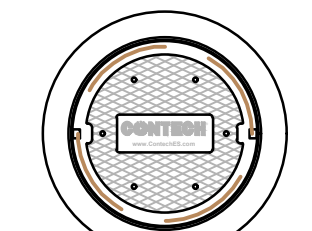


- NOTES:**
- ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
 - PROVIDE:
A: 24" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1556 OR APPROVED EQUIVALENT.
 - ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.

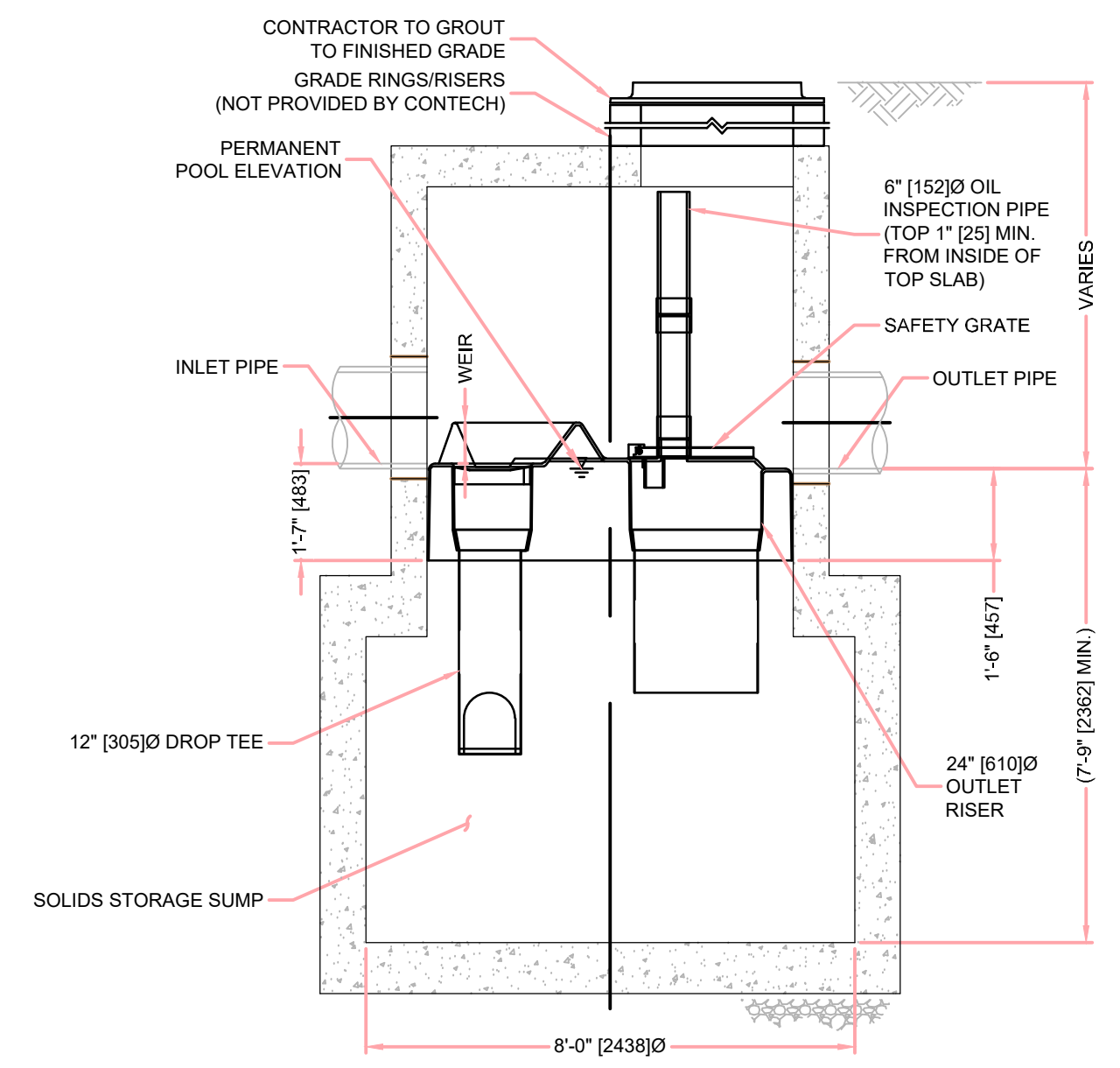
DRAIN MANHOLE FRAME & COVER
NOT TO SCALE



PLAN VIEW
TOP SLAB NOT SHOWN

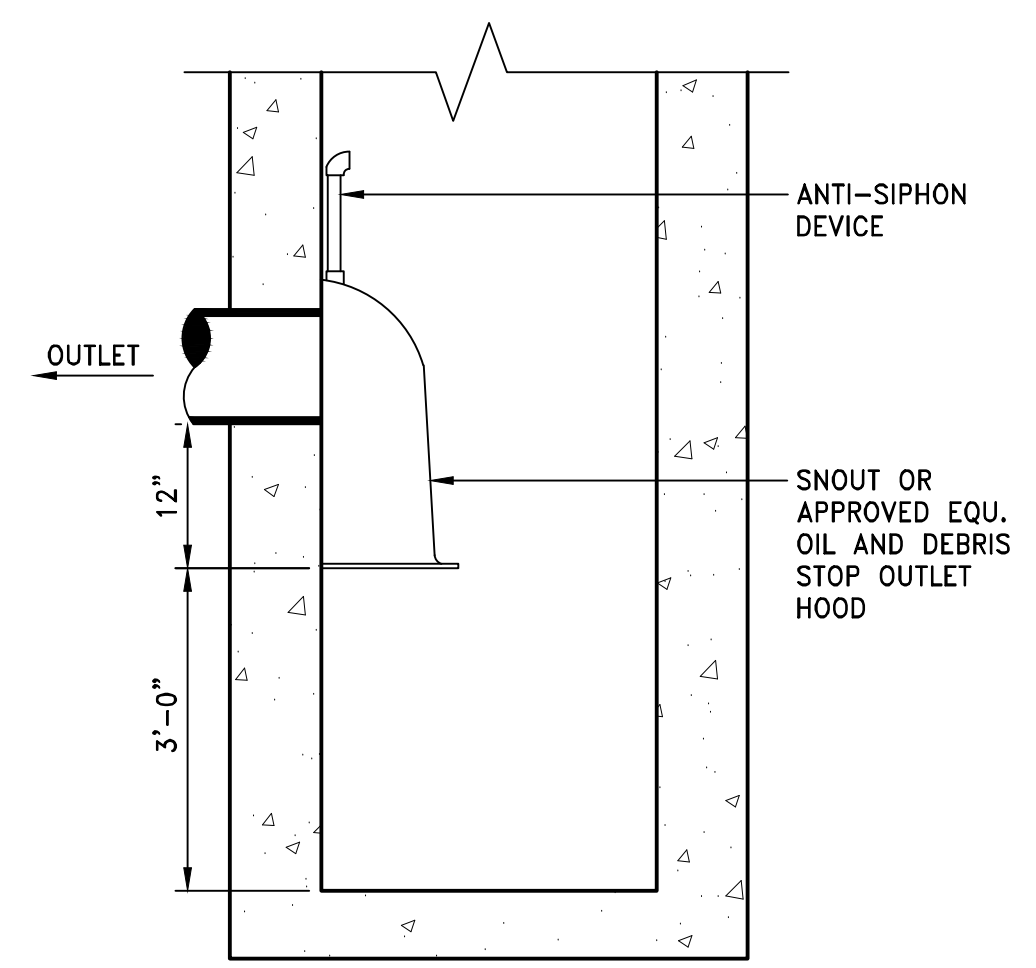


FRAME AND COVER
NOT TO SCALE

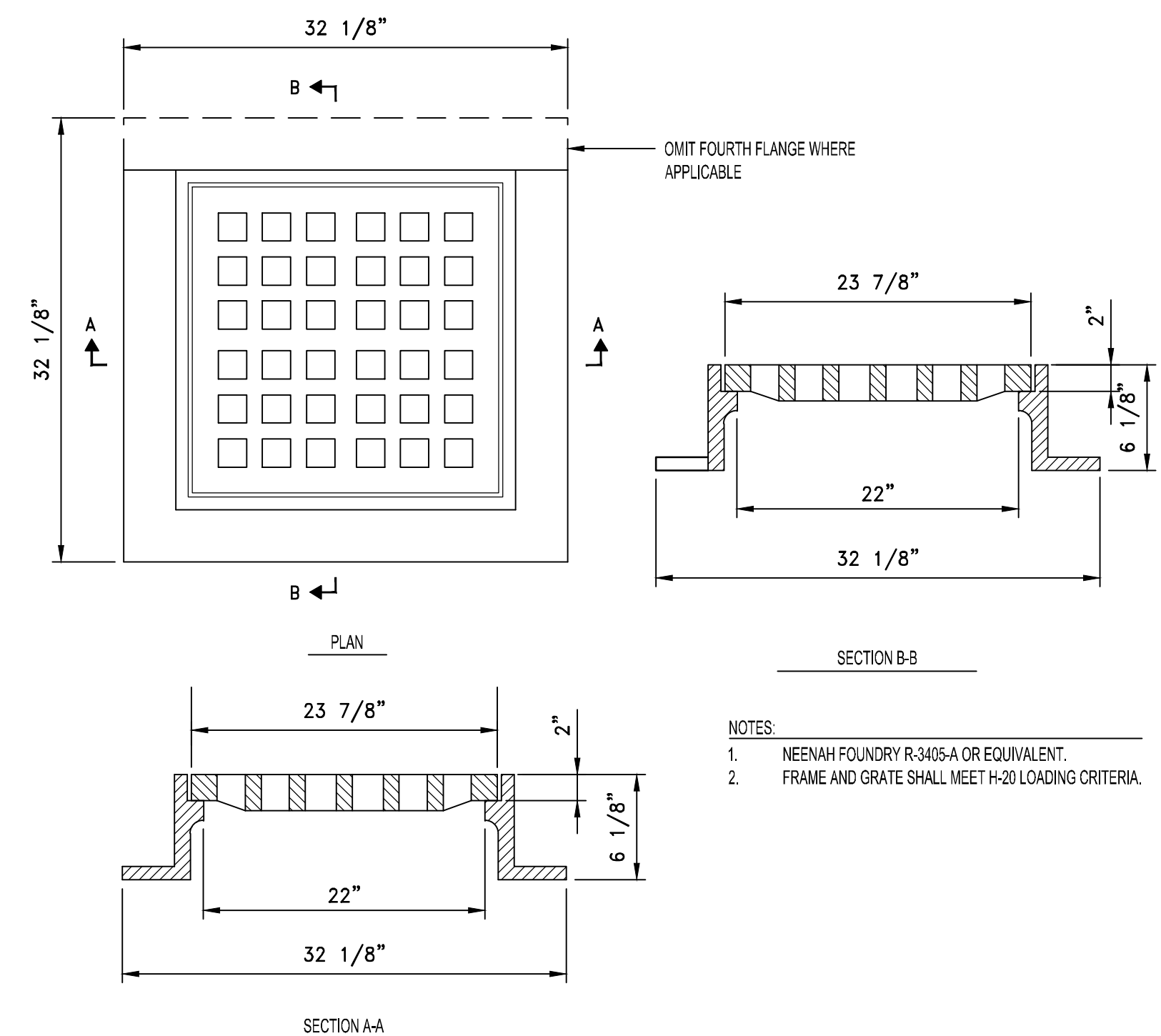


SECTION A-A

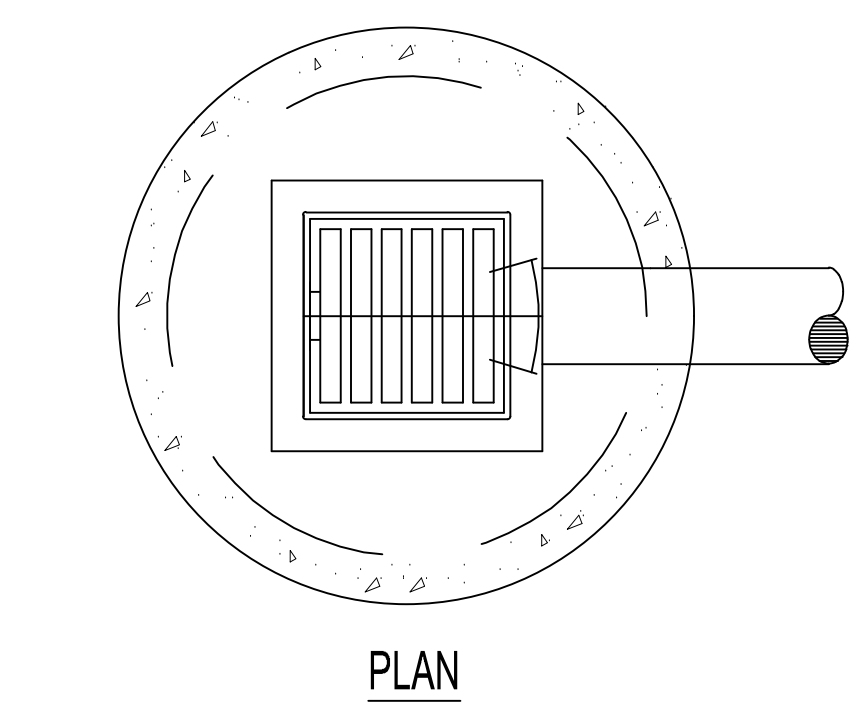
WATER QUALITY UNIT (WQU-01)
STORMCEPTOR STC-2400
NOT TO SCALE



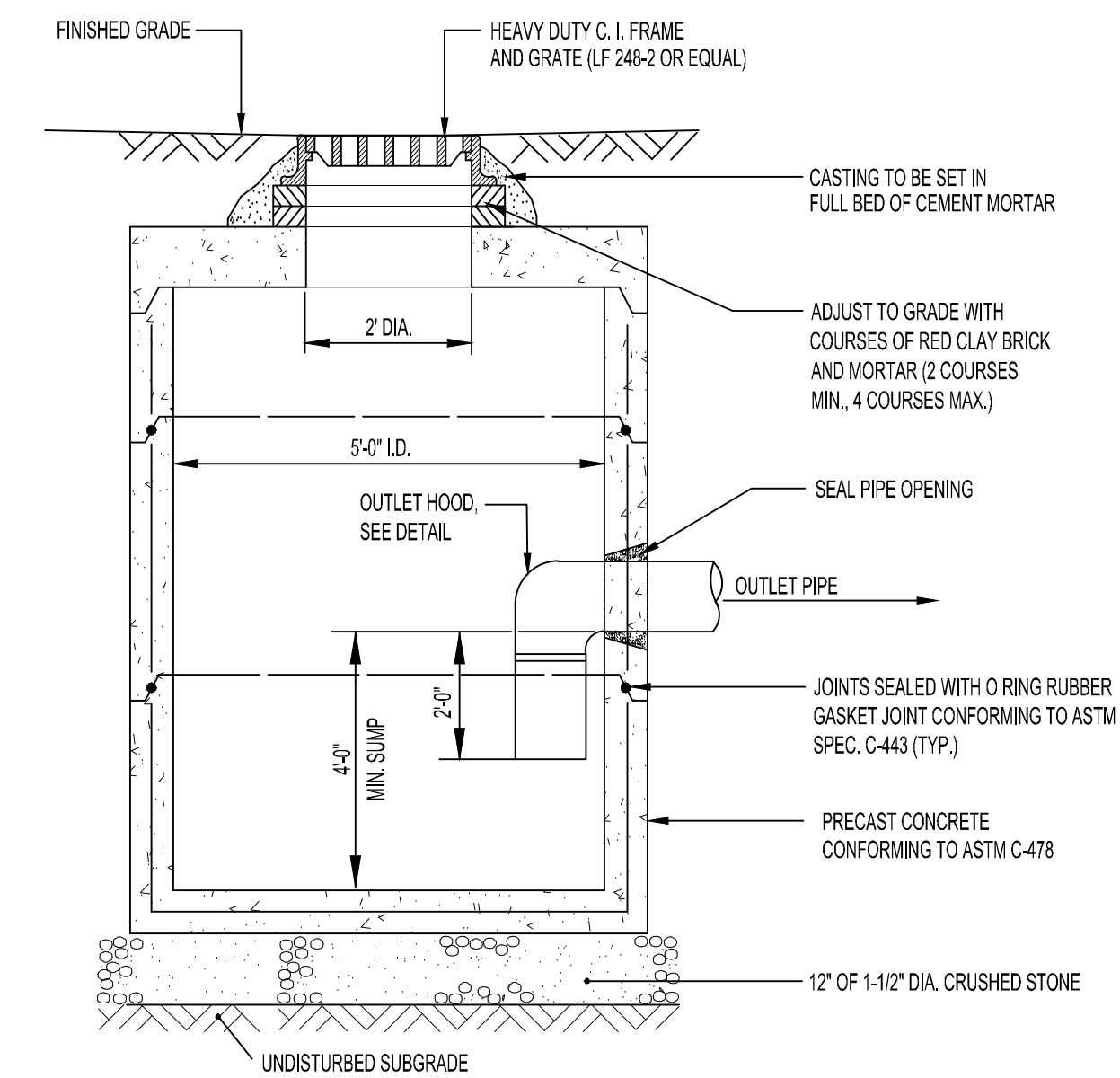
OUTLET HOOD DETAIL
NOT TO SCALE



SQUARE CATCH BASIN FRAME & GRATE
NOT TO SCALE



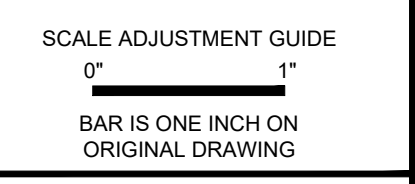
PLAN



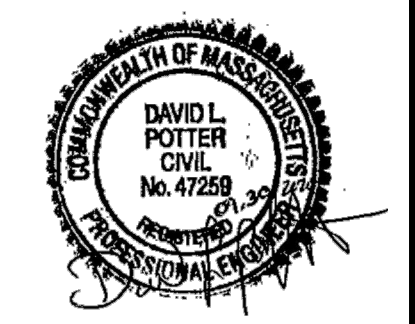
SECTION

- NOTES:**
- STEEL REINFORCEMENT FOR BASE SECTION SHALL BE 0.12 SQ. IN./LF.
 - CIRCUMFERENTIAL STEEL REINFORCEMENT SHALL BE 0.15 SQ. IN./LF. MINIMUM.
 - STRUCTURE SHALL CONFORM TO MASS HIGHWAY SPECIFICATIONS.

CATCH BASIN
NOT TO SCALE



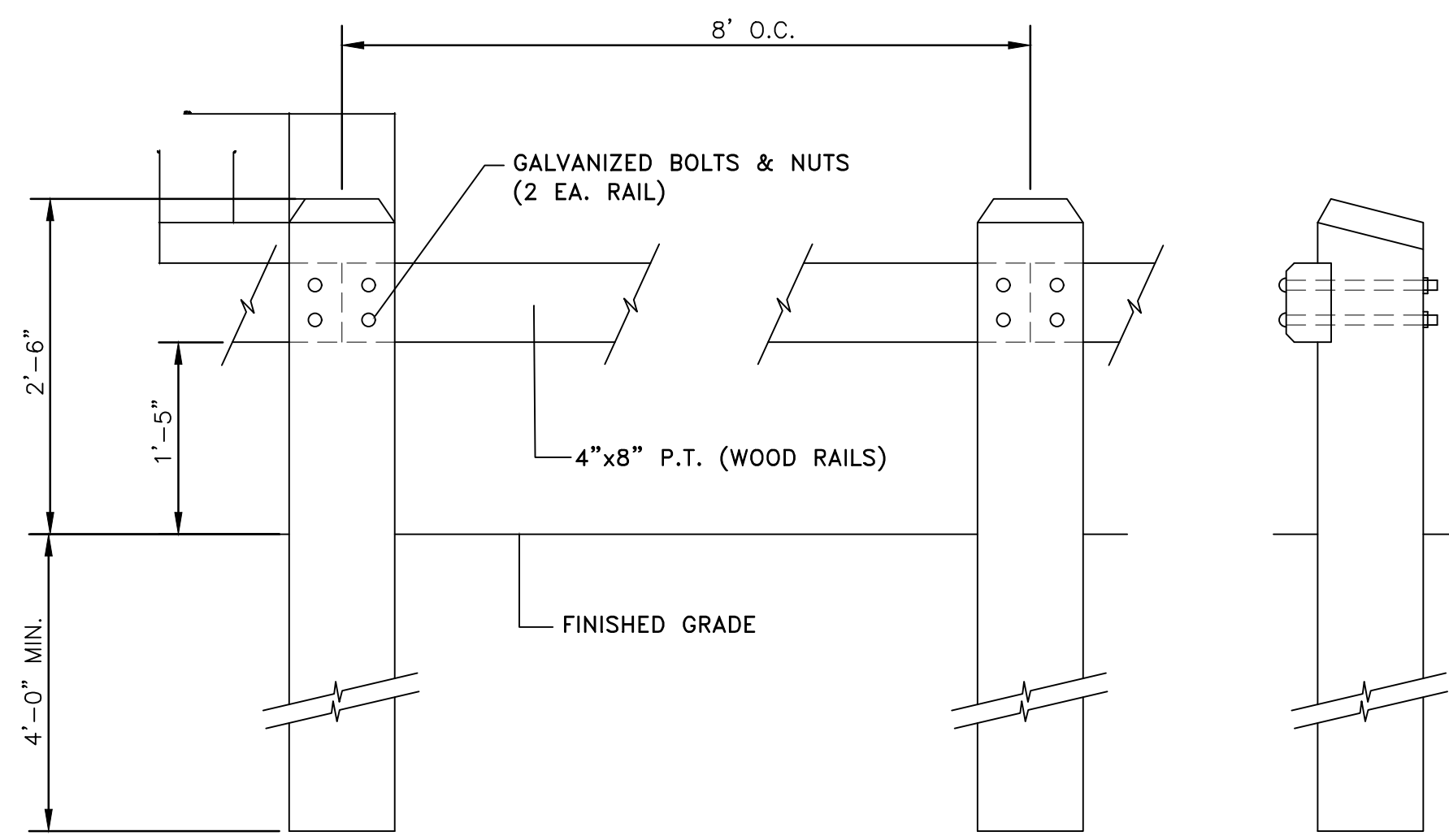
Project America
125 Fortune Boulevard
Milford, Massachusetts



REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 20115.00
DATE: SEPTEMBER 30, 2020
SCALE: N.T.S.
DESIGNED BY: KJM
CHECKED BY: JHR
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:
CIVIL DETAILS 4
DRAWING NO.:
C-604

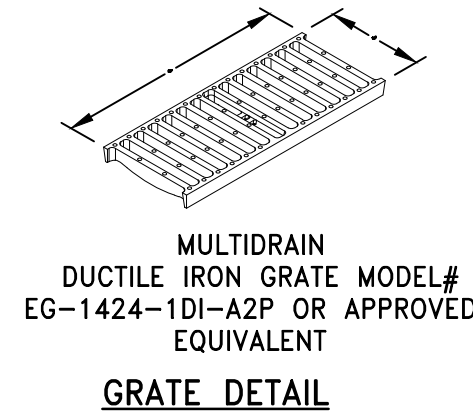


NOTES:

- COORDINATE TIMBER GUARD RAIL DESIGN AND LOCATION WITH RETAINING WALL MANUFACTURER'S STRUCTURAL ENGINEER

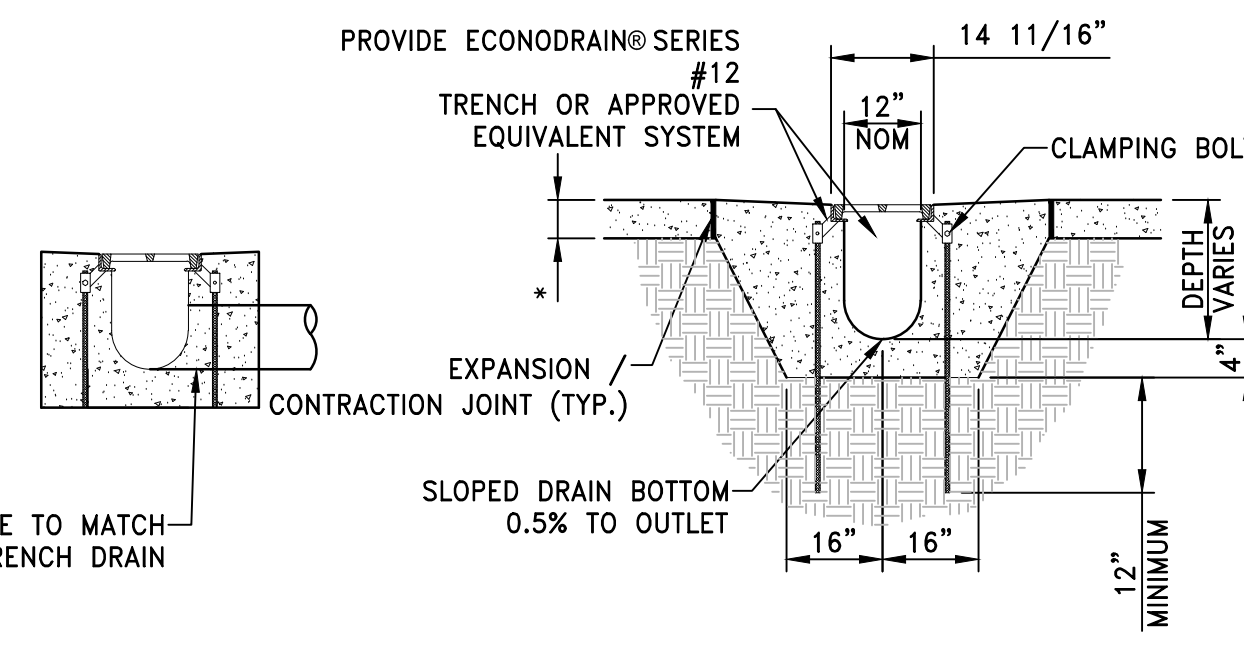
TIMBER GUARD RAIL

NOT TO SCALE



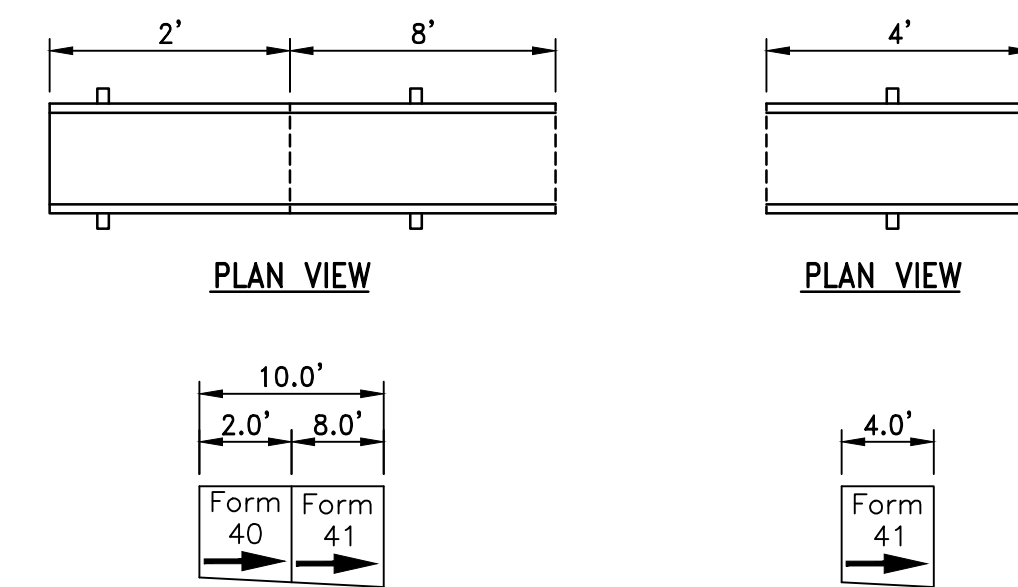
OUTLET FROM END OF TRENCH

- CONSTRUCTION NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.
 - TRENCH DRAIN AND GRATE SHALL BE RATED TO WITHSTAND H=20 LOADING CRITERIA.
 - GRATE ELEVATIONS SHALL MATCH EXISTING GRADE.



TRENCH DRAIN DETAIL

NOT TO SCALE

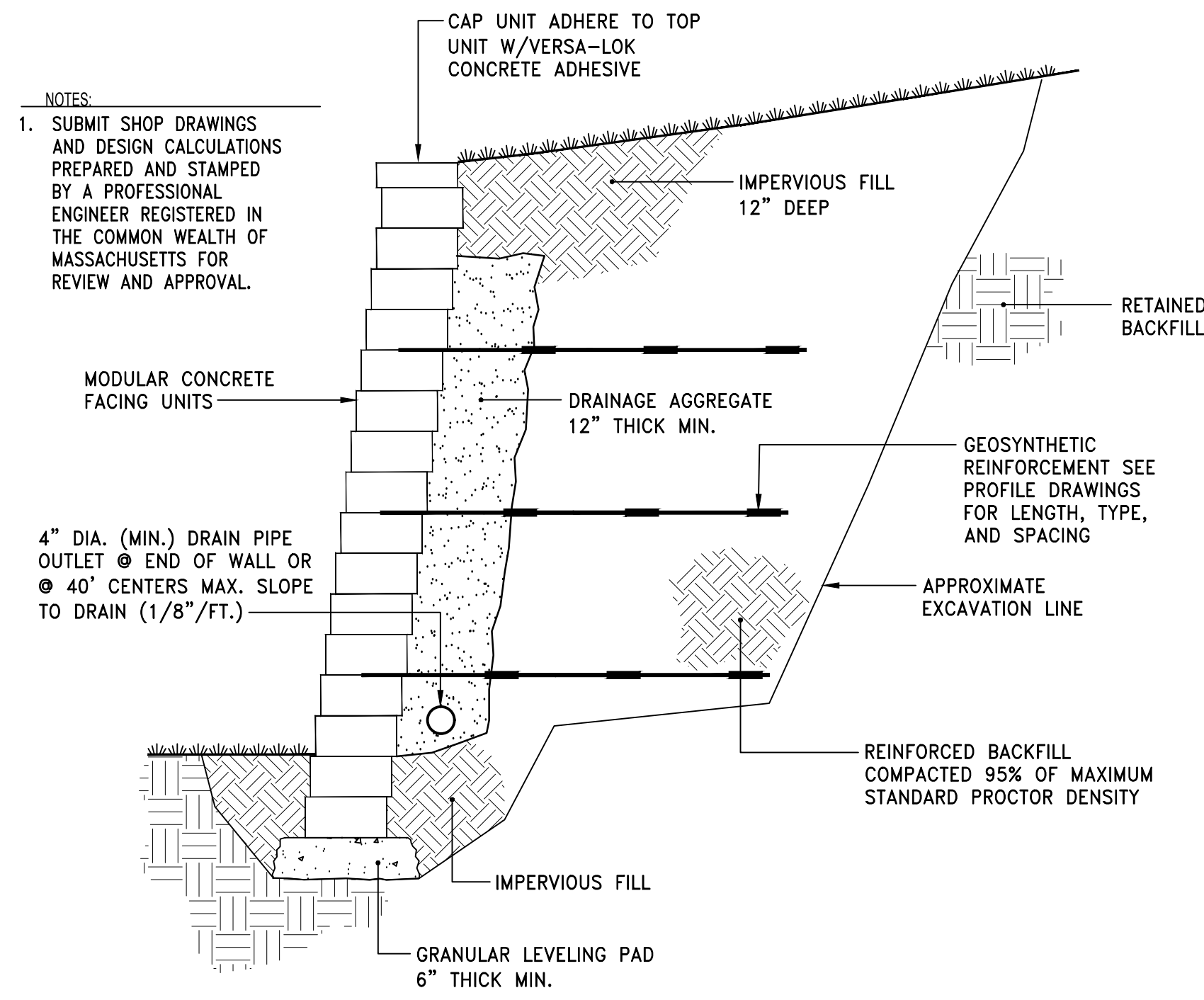


SHALLOW EPS FORMS			
EPS FORM	MIN	DEPTH	MAX
40	23"	23-1/2"	
41	23-1/2"	24"	

TRENCH DRAIN 1

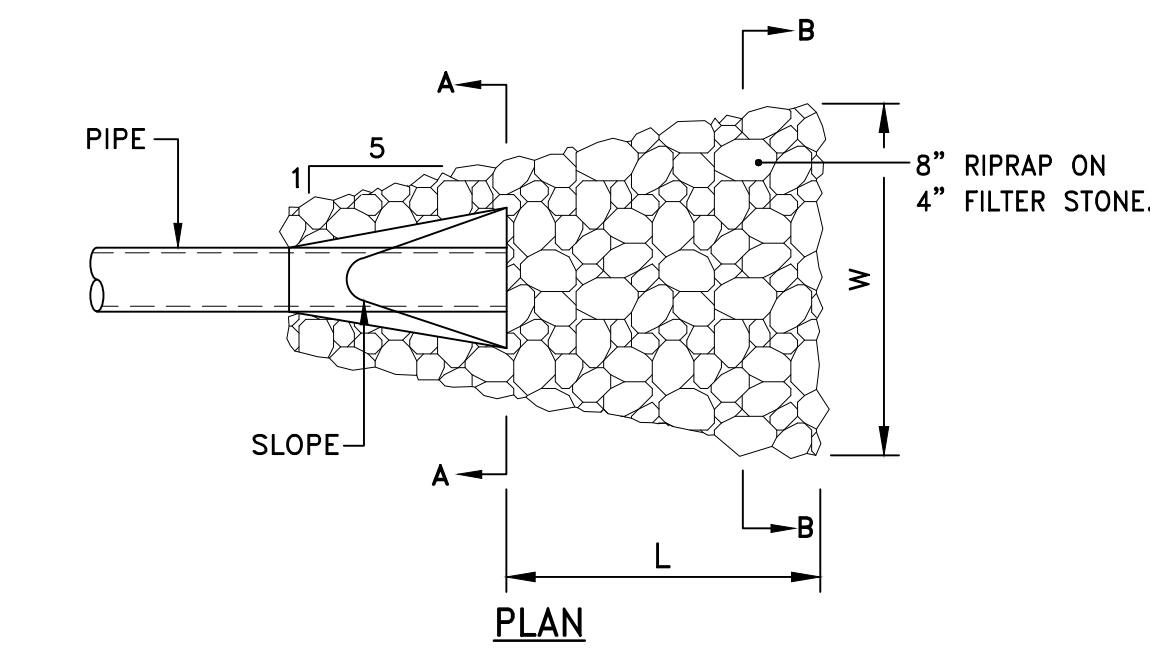
SHALLOW EPS FORMS			
EPS FORM	MIN	DEPTH	MAX
41	23-1/2"	24"	

TRENCH DRAIN 2

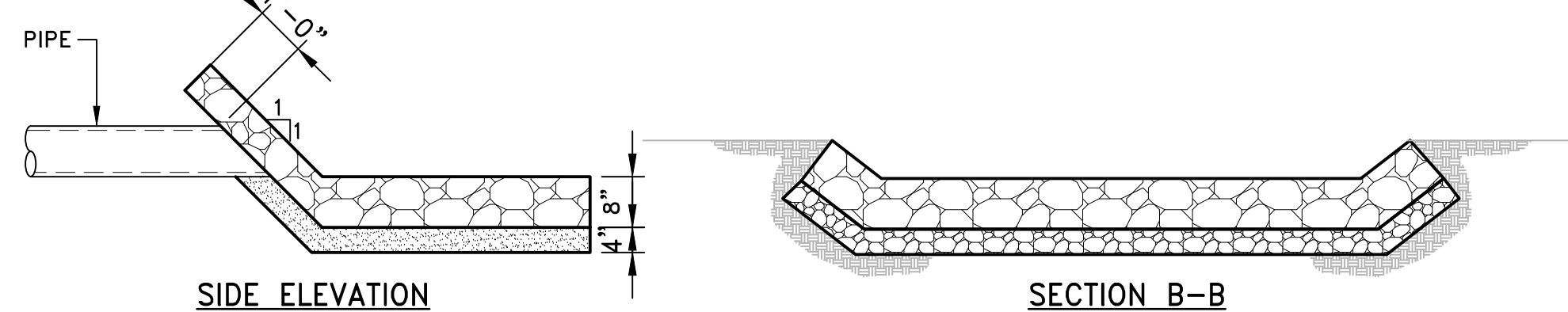


SEGMENTAL RETAINING WALL

NOT TO SCALE

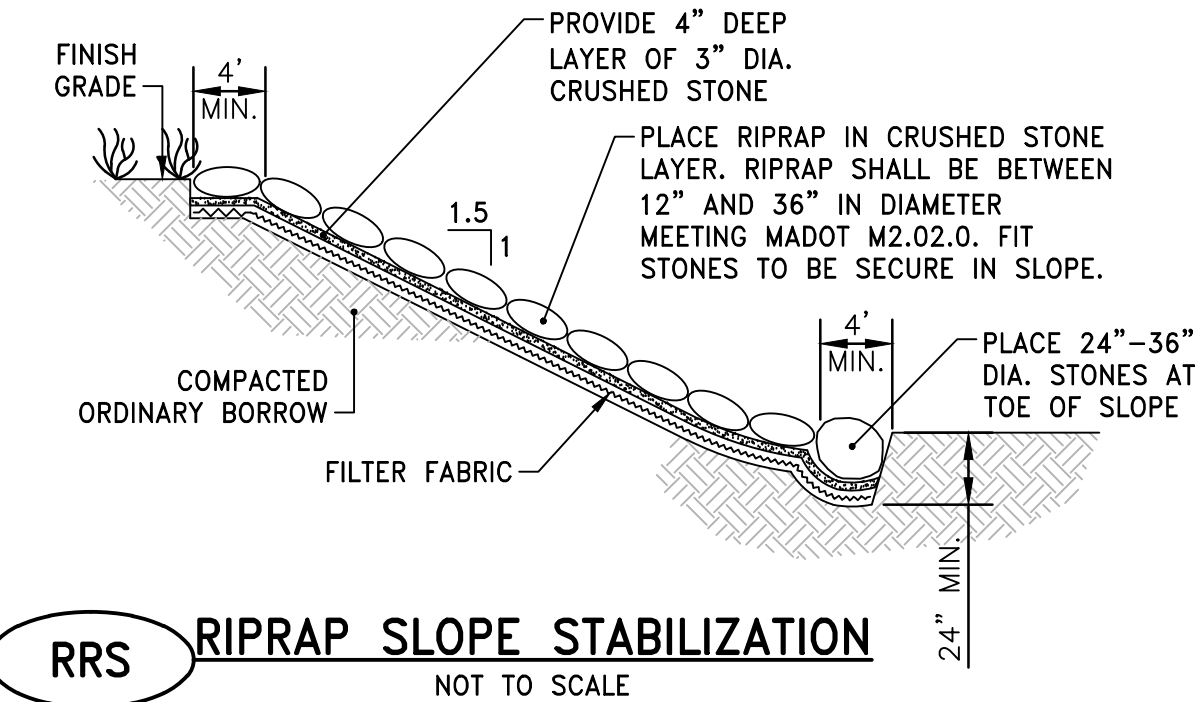


SECTION A-A



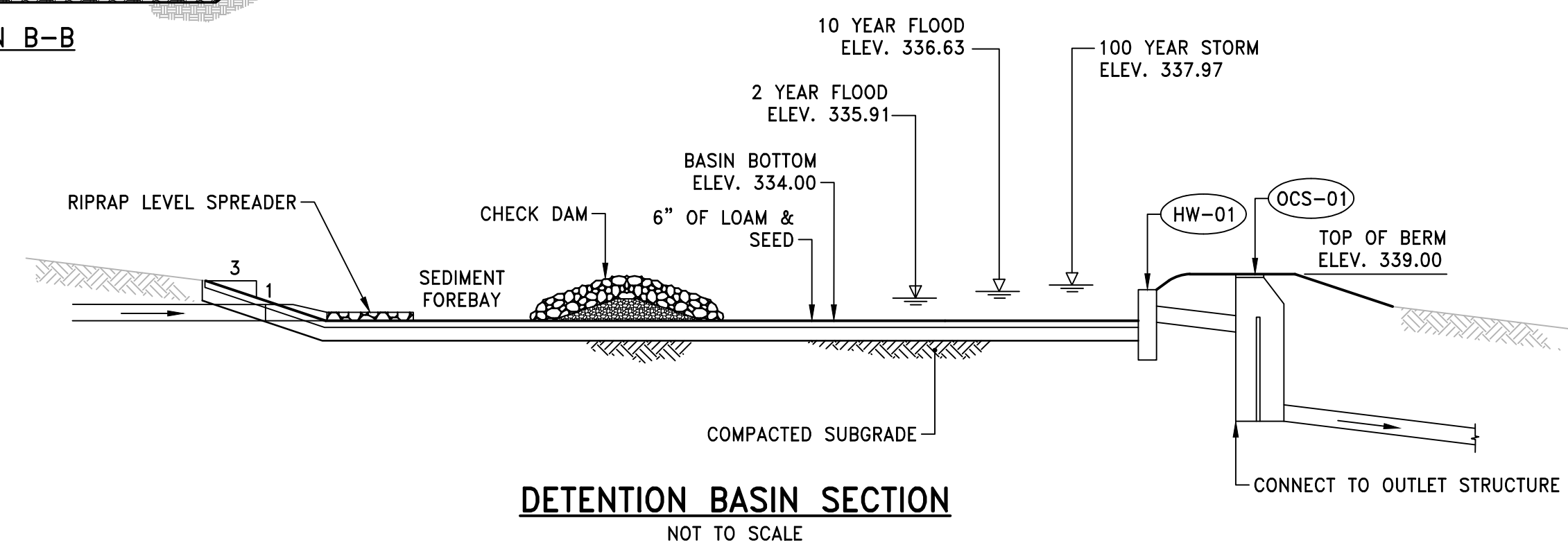
RLS RIPRAP LEVEL SPREADER

NOT TO SCALE



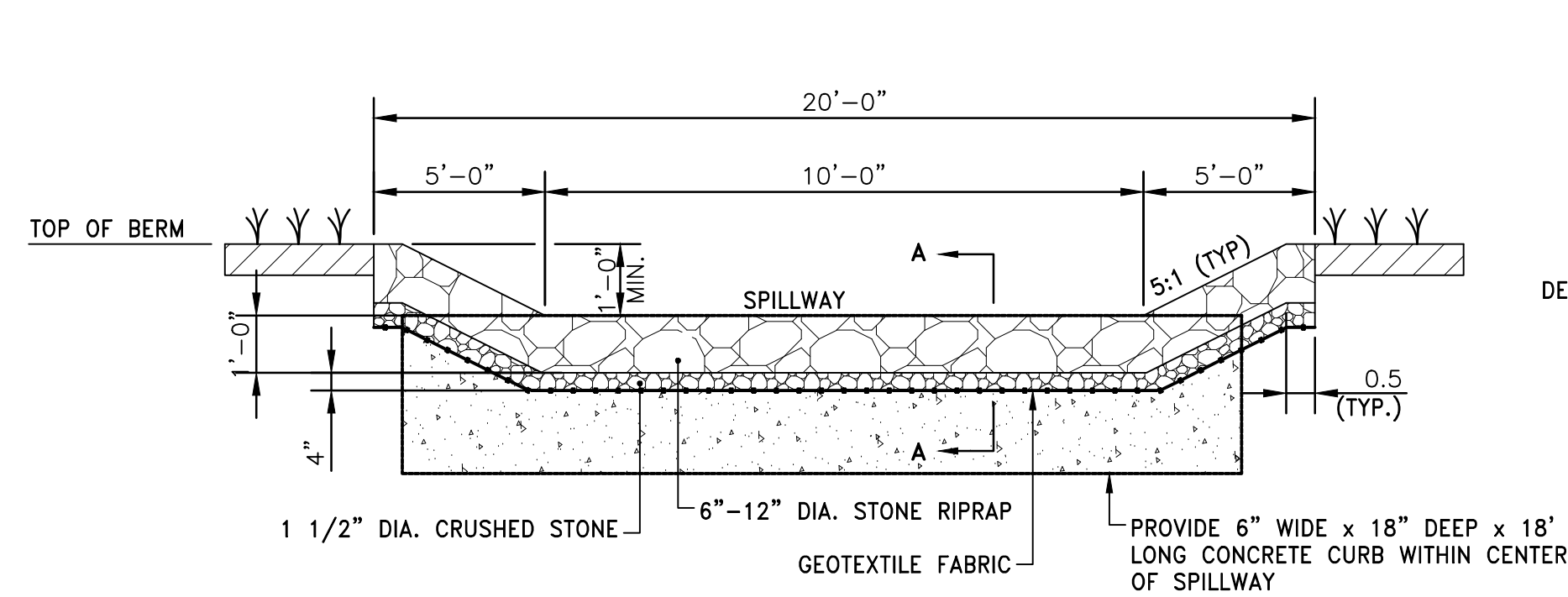
RRS RIPRAP SLOPE STABILIZATION

NOT TO SCALE



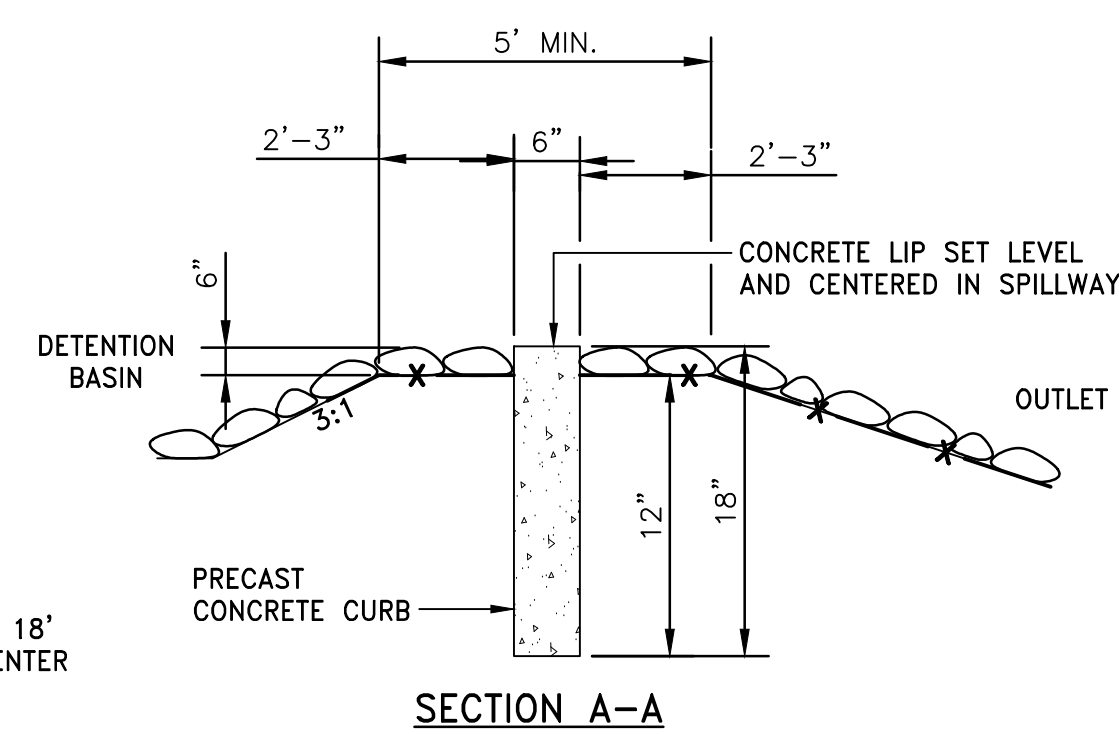
DETENTION BASIN SECTION

NOT TO SCALE



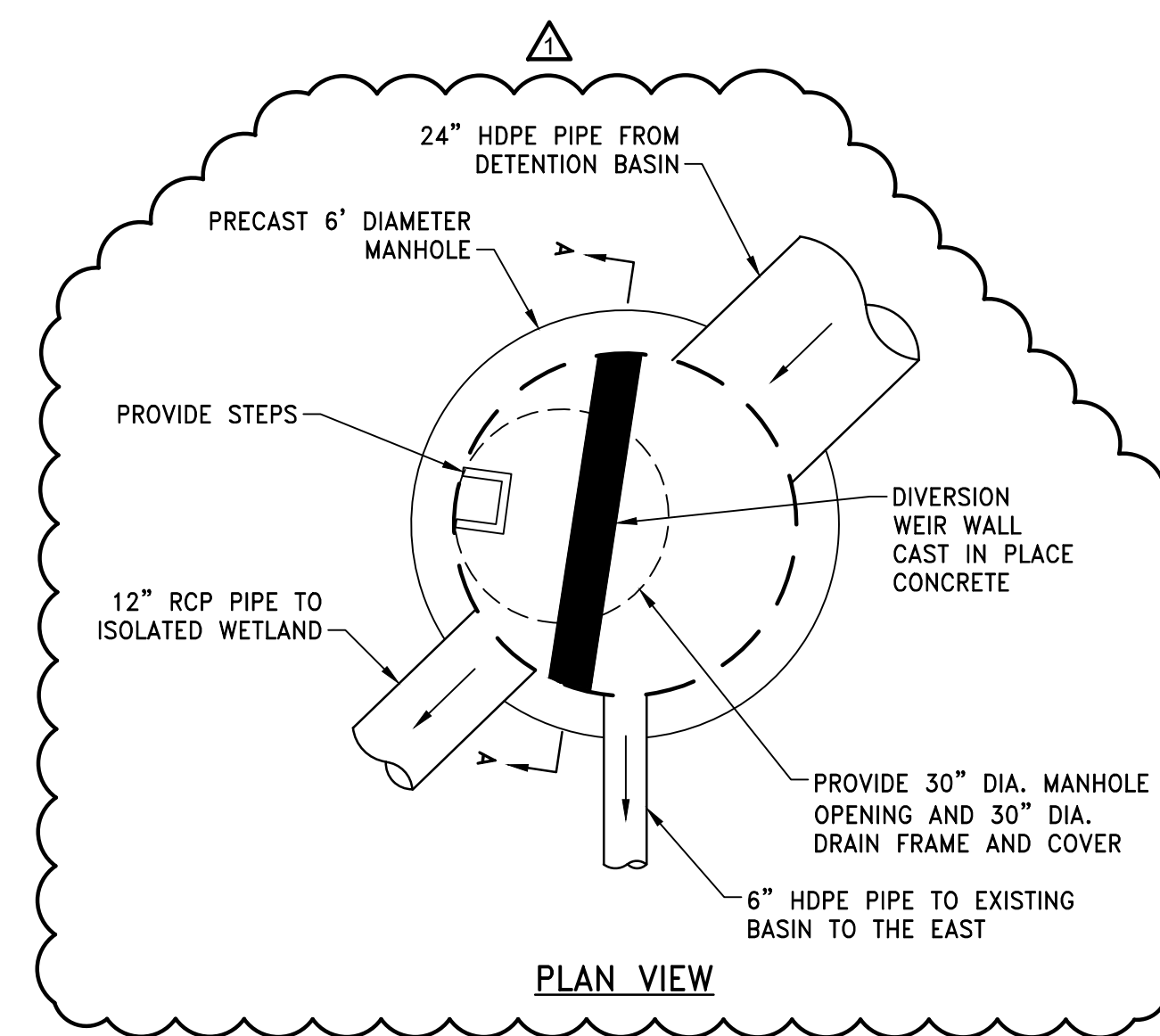
RS RIPRAP SPILLWAY DETAIL

NOT TO SCALE



SECTION A-A

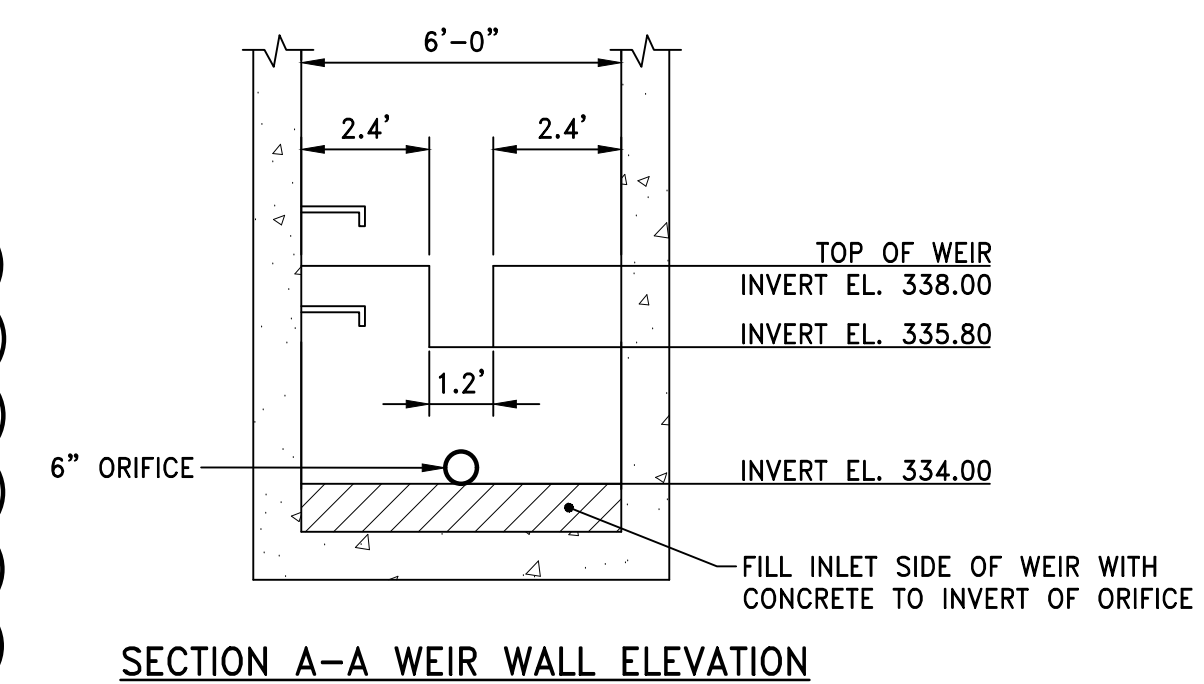
NOTE: CONTRACTOR SHALL FILL VOIDS BETWEEN CURB SECTIONS WITH MORTAR



PLAN VIEW

OUTLET CONTROL STRUCTURE (OCS)

NOT TO SCALE



SECTION A-A WEIR WALL ELEVATION

REVISIONS:

1	10/20/2020	TOWN COMMENTS
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PROJECT NO.: 20115.00
DATE: SEPTEMBER 30, 2020
SCALE: N.T.S.
DESIGNED BY: KJM
CHECKED BY: JHR
DRAWN BY: AKL
APPROVED BY: DLP
DRAWING TITLE:

Agenda Item # 15



TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

OFFICE OF PLANNING
AND ENGINEERING

Michael Dean, P.E.
Town Engineer

M E M O R A N D U M

TO: Mr. Michael Giampietro, Chairman – Conservation Commission

FROM: Michael Dean, P.E. *MD*

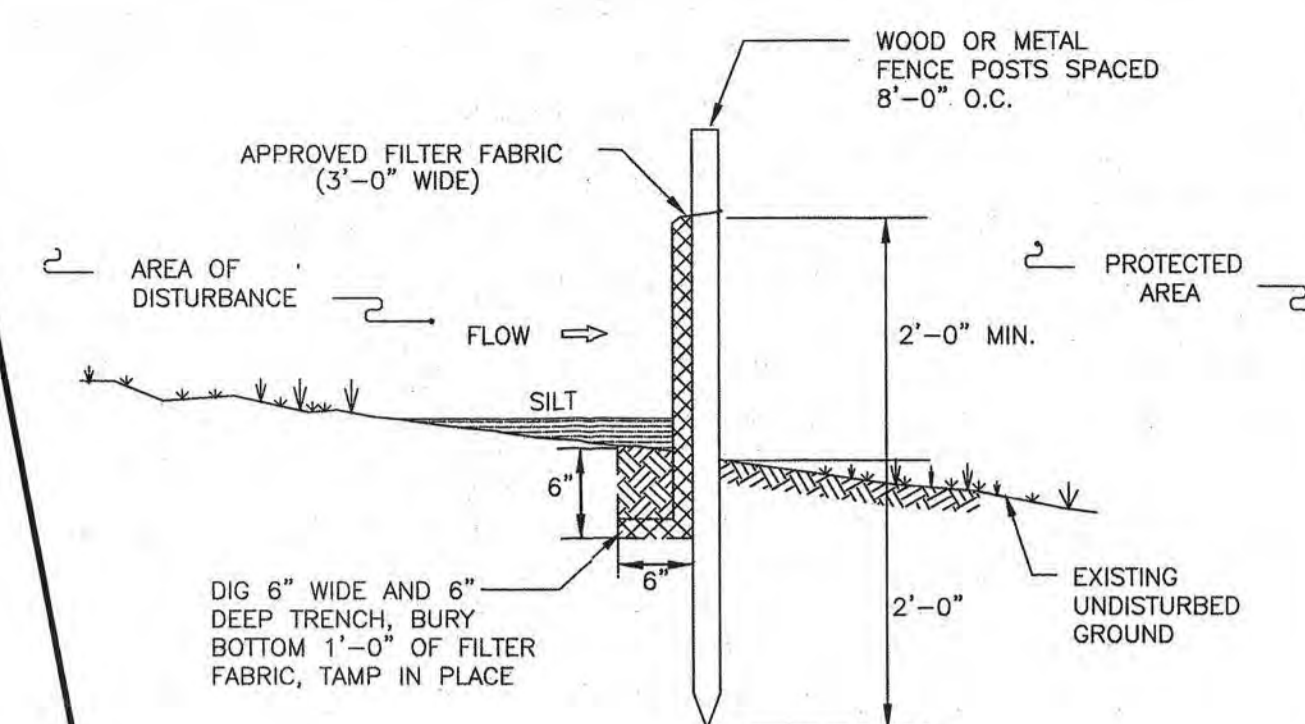
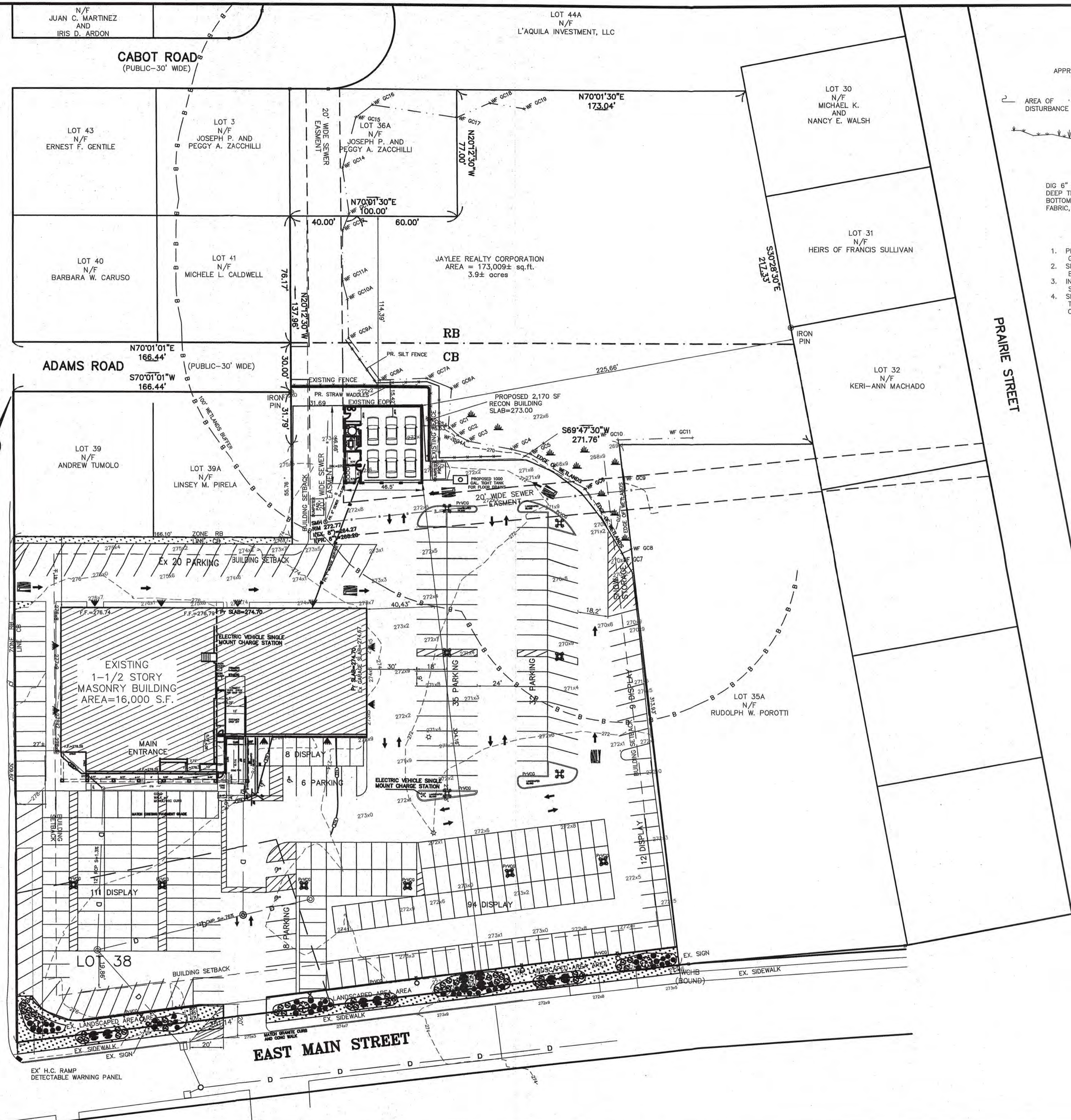
DATE: September 11, 2020

SUBJECT: **158 - 160 East Main Street (formerly #154) – Hyundai Dealership**
Notice of Intent - DEP File # 223-1182

The submittal is for a Notice of Intent associated with the Car Dealership at 158-160 East Main Street, the Applicant is Imperial Hyundai Corp., P O Box 444 Mendon, MA. The Parcels consists of 3.9 Acres, front portion of the parcel is Zoned as Neighborhood Commercial B (CB) and Single Family Residential – RB in the northern portion (rear) of the site. The parcels refer to the Town Assessors Map 33, Block 0, Lots 35, 36, 37 & 38.

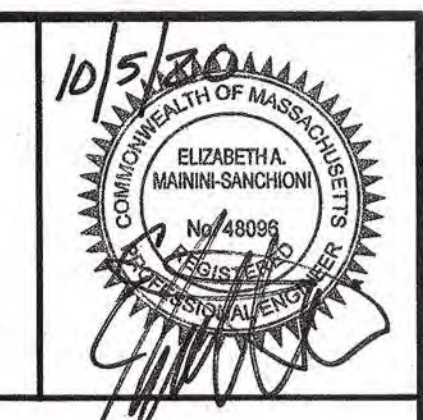
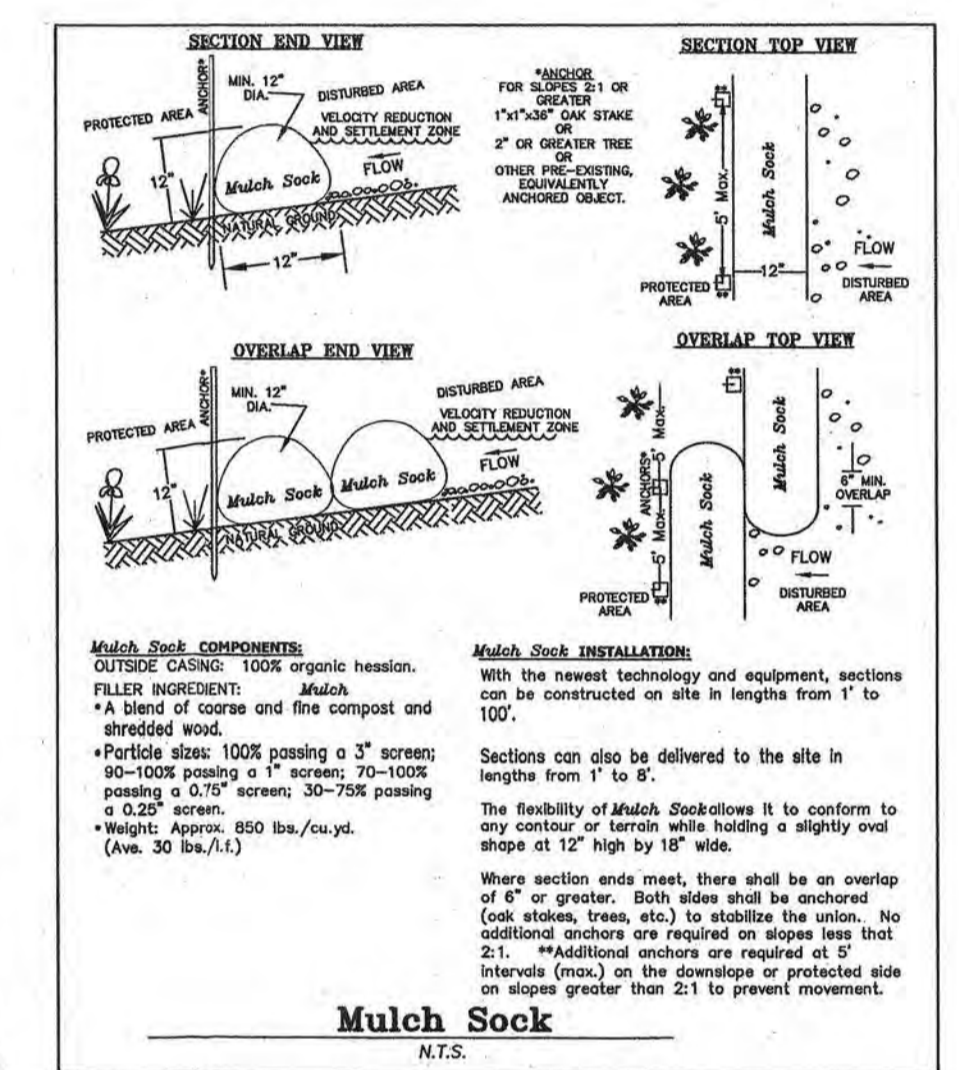
This site has been in front of the Conservation Commission a number of times over the years, the current submittal is for a 2,356 SF detached building associated with Automobile Sales and Service. The proposed detached building is in a location that is currently paved.

Following a review of the submitted documents I recommend the issuance of an order of conditions.



1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
2. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
4. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE CONSERVATION COMMISSION.

SILT FENCE
N.T.S.



CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

"WARNING"
EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233).

EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

NOTES

1. THIS PLAN REFERS TO MILFORD ASSESSORS MAP 33 LOTS 35, 37 & 38.
2. ZONING CLASSIFICATION IS CB-COMMERCIAL B
3. WETLANDS DELINEATION PERFORMED FEBRUARY 22, 2018, BY GODDARD CONSULTING AND LOCATED BY GUERRIERE & HALNON.

DATE	DESCRIPTION	INIT

OWNER
JAYLEE REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

APPLICANT
JAYLEE REALTY CORPORATION
P.O. BOX 444
MENDON, MA 01756

"IMPERIAL HYUNDAI"

RECON BUILDING PLAN OF LAND
IN
MILFORD, MA
SCALE: 30 FEET TO AN INCH
DATE: SEPTEMBER 30, 2020

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
333 WEST STREET PH. (508) 473-6630
MILFORD, MA 01757 FX. (508) 473-8243
www.gandhengineering.com

Agenda Item # 16



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 13, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: Notice of Intent for **21 Beaver Street - Proposed Transportation Terminal**
DEP File # 223- _____

Dear Mr. Giampietro:

I have reviewed the current (3rd) Notice of Intent filing for 21 Beaver Street (lot 25A). The submittal is for a Proposed Transportation Terminal. The applicant is Route 85 Realty Corp., P.O. Box 444, Mendon, MA 01756.

The site consists of 14.58 Acres, Zoned Highway Industrial B (IB) and is located on the west side of Beaver Street (behind McDonald's Restaurant).

The 1st NOI was for Site Preparation (for a future commercial site). The 1st filing has an Order of Conditions, DEP File number 223-1103. The 2nd NOI was for the filling of a small portion of Bordering Vegetated Wetlands (BVW) and a Drainage Ditch / Bank associated with the aforementioned small portion of BVW. The 2nd NOI has an Order of Conditions, DEP File # 223-1132.

The resource areas associated with the parcel are: Bordering Vegetated Wetlands, Bank and 100Year Flood Plain. The resource areas were delineated and re-evaluated by Goddard Consulting, LLC.

Following a review of the above referenced documents I offer the following comments:

1. There is 3,545 SF of Bordering Vegetated Wetland proposed to be filled under this NOI, plus 860 SF previously approved, with a total of 6,489 SF of Wetland Replication, a 1.5:1 Ratio. 40 Lineal feet (LF) of bank is to be filled also. The resource area bank, that is associated with the site is essentially a drainage ditch that carried drainage from the McDonald's site to the main wetlands.
2. Erosion control measures **are** shown on the plan and the detail **does** include Silt Fence with Mulch Sock.
3. The larger full-scale Resource Area Plan **does** include the Replication Procedure / information that is included in the Report by Goddard Consulting.
4. Since the original submittal, the drainage analysis / design has been revised along with a final set of design plans.

I recommend the issuance of an Order of Conditions for the project.

Sincerely,



Michael Dean, P.E.
Town Engineer

October 7, 2020

Milford Conservation Commission
52 Main Street
Milford, MA 01757

RE: Notice of Intent
21 Beaver Street (Map 44, Lot 25A), Milford, MA
(DEP File #233-1132)

Dear Milford Conservation Commission:

Goddard Consulting, LLC is pleased to submit this Notice of Intent (NOI) on behalf of the applicant, Rte. 85 Realty Corporation, for the construction of a parking lot with associated grading and infiltration system. Work includes impacts to Bordering Vegetated Wetlands (BVW), Bank, and Land Under Water Bodies and Waterways (LUW) with wetland replication. This new NOI is being filed as the work proposed is beyond the original extent of the Order of Conditions (DEP File #233-1132) issued in 2017.

Seven hard copies and a digital copy of the NOI application have been submitted for your review. A list of enclosed documents are as follows:

- NOI (WPA Form 3) Application Form
- NOI Wetland Fee Transmittal Form
- Copy of Fee Checks
- Affidavit of Service, Notification to Abutters, Certified Abutters List and Map
- Order of Conditions (WPA Form 5), DEP File #223-1103, 11/17/2017
- USGS Site Locus, Goddard Consulting, LLC. 3/4/2020
- Orthoview of Site, Goddard Consulting, LLC. 10/7/2020
- Wetland Replication Area - Planting Plan, Goddard Consulting, LLC. 10/7/2020
- Stormwater Report for “495 Transportation Terminal”, Milford, MA, Guerriere & Halnon, Inc. Revised: 2/19/2020
- Site Plan: “495 Transportation Depot I” Transportation Terminal Site Plan 21 Beaver Street, Milford MA, 10 Sheets, Guerriere & Halnon, Inc., 9/8/2020

1.0 Site Permitting History

An Order of Conditions (DEP File #233-1132) was issued for this site in 2017 for clearing, grading and the construction of a temporary stormwater basin. This work included the filling of a non-jurisdictional wetland ditch (480 linear feet) and 860 square feet (SF) of BVW. The Construction of a 4,477 SF wetland replication area with interior Bank restoration was approved to replicate the resource areas impacted. This replication area is yet to be constructed.

2.0 Existing Conditions

The site of the proposed project consists of one parcel totaling approximately 14.58 acres. The northern portion of the site is an open gravel area, created under the OOC for DEP file #223-1132. The ditch (480 linear feet of Bank) and BVW (860 SF) have been filled under the OOC (DEP #223-1132). The temporary stormwater basin is in place and the wetland replication area has been cleared for construction. Erosion controls are in place at the limit of work, preventing sedimentation into BVW, which resides just south of the gravel area. In general, the site is dominated with native species of vegetation (red maple, white pine, red oak, witch hazel, highbush blueberry, sweet pepperbush, ferns, raspberry, greenbrier, and grape) with small pockets disturbed by invasive species (glossy buckthorn and oriental bittersweet).

There is a flagged intermittent stream, near wetland flag WF-GC73, which includes two resource areas: Bank (40 linear feet) and Land Under Water (LUW; 267 SF).

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife and has no mapped potential or certified vernal pools. The site is not located in an ACEC. There are Zone AE and X FEMA Flood Zones located both within and outside of the delineated BVW boundary. The resource area, Bordering Land Subject to Flooding (BLSF), extends from the delineated wetland line up to the 100-year FEMA flood elevation (249.40) at the southeastern portion of the lot.

3.0 Project Summary

The proposed project has complied with the work approved under the OOC for DEP file # 233-1132 and shows cumulative impacts to all of the on-site resource areas. The project involves the construction of a parking lot (264 parking spaces) with associated grading and an underground stormwater infiltration system that will overflow its discharge into the Buffer Zone around wetland flag WF-GC27. Rip-rap is proposed to be installed along the western and southern edges of the parking lot.

To allow for fluid parking areas, the project proposes impacting an additional 3,545 SF of BVW. Total wetland fill (including the 860 SF of fill from DEP #233-1132) equals 4,405 SF. Filling of wetlands is proposed between wetland flags WF-GC17 through WF-GC27, WF-GC37 through WF-GC76, WF-GC98 through WF- GC101, and WF-GC101 through WF-GC105 and will be referred to as BVW fill areas 1, 2, 3, and 4 respectively. BVW fill area 1 hosts two species of invasive vegetation including a dominant shrub (20% cover) and ground cover (20% cover) of glossy buckthorn and abundant oriental bittersweet vines (25% cover) which have weighed down saplings and shrubs within the BVW. BVW fill areas 2, 3 and 4 are noticeably void of any invasive species. The BVW will be replicated by combining the original wetland replication area (4,477 SF) to create 6,489 SF of BVW adjacent to the existing BVW. This results in a 1.45 replication ratio.

BVW fill area 2 encompasses two additional resource areas, Bank (40 linear feet) and Land Under Water (LUW; 267 SF), that are proposed to be impacted by the construction the parking lot.

4.0 Regulatory Compliance

This project will comply with the regulations set forth in the WPA. The following Inland Resource Areas are jurisdictional under the WPA and are proposed to be altered in some form: BVW, Bank, LUW & the 100-foot Buffer Zone to BVW (the Buffer Zone).

4.1 BVW General Performance Standards

General Performance Standards associated with filling BVW must be followed for the project to be permissible. Per the WPA 310 CMR 10.55(4)(b, d, & e), the following performance standards must be met:

(b) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5000 square feet of Bordering Vegetated Wetland when said area is replaced in accordance with the following general conditions and any additional, specific conditions the issuing authority deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost:

- 1. the surface of the replacement area to be created ("the replacement area") shall be equal to that of the area that will be lost ("the lost area");*
- 2. the ground water and surface elevation of the replacement area shall be approximately equal to that of the lost area;*
- 3. The overall horizontal configuration and location of the replacement area with respect to the bank shall be similar to that of the lost area;*
- 4. the replacement area shall have an unrestricted hydraulic connection to the same water body or waterway associated with the lost area;*
- 5. the replacement area shall be located within the same general area of the water body or reach of the waterway as the lost area;*
- 6. at least 75% of the surface of the replacement area shall be reestablished with indigenous wetland plant species within two growing seasons, and prior to said vegetative reestablishment any exposed soil in the replacement area shall be temporarily stabilized to prevent erosion in accordance with standard U.S. Soil Conservation Service methods; and*
- 7. the replacement area shall be provided in a manner which is consistent with all other General Performance Standards for each resource area in Part III of 310 CMR 10.00. In the exercise of this discretion, the issuing authority shall consider the magnitude of the alteration and the significance of the project site to the interests identified in M.G.L. c. 131, § 40, the extent to which adverse impacts can be avoided, the extent to which adverse impacts are minimized, and the extent to which mitigation measures, including replication or restoration, are provided to contribute to the protection of the interests identified in M.G.L. c. 131, § 40.*

The proposed project will result in the cumulative loss of less than 5,000 SF (4,405 SF) of BVW and will be replaced in the following way:

1. The surface of the replacement area to be created, "the Wetland Replication Area" (6,489 SF), will be greater than that of the area that will be lost "the wetland fill area" (4,405 SF), exceeding the required 1:1 ratio set forth in 310 CMR 10.55(4)(b)(1).
2. The ground water and surface elevation of the Wetland Replication Area (249, 251) will be approximately equal to that of the wetland fill area (249, 251).

3. The overall horizontal configuration and location of the Wetland Replication Area with respect to the Bank will be similar to that of the wetland fill area.
4. The replacement area will have an unrestricted hydraulic connection to the same water body or waterway associated with the wetland fill area.
5. The replacement area will be located within the same general area of the waterbody or reach of the waterway as the wetland fill area.
6. At least 75% of the surface of the Wetland Replication Area will be reestablished with indigenous wetland plant species within two growing seasons, and prior to said vegetative reestablishment, any exposed soil in the Wetland Replication Area shall be temporarily stabilized to prevent erosion in accordance with standard U.S. Soil Conservation Service methods; and
7. The Wetland Replication Area will be provided in a manner which is consistent with all other General Performance Standards for each resource area in Part III of 310 CMR 10.00.

(d) Notwithstanding the provisions of 310 CMR 10.55(4)(a),(b) and (c), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.

The proposed project will not have any adverse effects on specified habitat sites of rare vertebrate or invertebrate species according to the MassGIS data layers for the Natural Heritage and Endangered Species Program (NHESP).

(e) Any proposed work shall not destroy or otherwise impair any portion of a Bordering Vegetated Wetland that is within an Area of Critical Environmental Concern designated by the Secretary of Energy and Environmental Affairs under M.G.L. c. 21A, § 2(7) and 301 CMR 12.00: Areas of Critical Environmental Concern. 310 CMR 10.55(4)(e):

1. *supersedes the provisions of 310 CMR 10.55(4)(b) and (c);*
2. *shall not apply if the presumption set forth at 310 CMR 10.55(3) is overcome;*
3. *shall not apply to work proposed under 310 CMR 10.53(3)(l); and*
4. *shall not apply to maintenance of stormwater detention, retention, or sedimentation ponds, or to maintenance of stormwater energy dissipating structures, that have been constructed in accordance with a valid order of conditions.*

The proposed project site is not located within an ACEC and therefore will not destroy or otherwise impair any portion of a BVW that is within an ACEC. The BVW fill impacts will require a Wildlife Habitat Evaluation to comply with the *Massachusetts Wildlife Habitat Protection Guidance for Inland Wetlands* manual. This evaluation will be submitted to the Commission as supplemental information.

4.2 Wetland Replication Plan

The existing wetland fill areas are located along the exiting tree line. The BVW impact areas (4,405 SF) dips in elevation behind the existing gravel lot and is largely connected to BVW from the south. The key features distinguishing this BVW are the soils and vegetation present. Existing soils within the BVW fill areas are generally muck as far down as 8", with gleyed soils (7.5YR 4/1) further beneath. Ground water was located between 2" and 15" below surface elevation 251 and redoximorphic soil features were found at 6" in wetland fill area 3 and deeper

in other areas. The dominant wetland vegetation consists of red maple, yellow birch, winterberry, sweet pepperbush, witch hazel, highbush blueberry, invasive glossy buckthorn, raspberry, blackberry, and cinnamon fern. The wetland fill area currently provides protection of the following interests in relation to the WPA: ground water supply, flood control, erosion control and sedimentation control, stormwater damage prevention, other water damage prevention, wildlife protection, plant or wildlife habitat, and natural character of wetland values.

The wetland replication area is located in an upland feature that is surrounded by BVW on three of its edges. The size of the replicated area will be about 6,487 SF, which far larger than the existing wetland fill area (4,405 SF to be lost). The location of the replication area was selected for the following reasons:

- The area can easily be accessed from the gravel area.
- Ground water was located 12 inches below ground level in the proposed wetland replication area. Only a 2-foot cut in grading will need to occur throughout the area to reach desirable depths for necessary hydric soil conditions.
- Hydric soils were found as low as 12 inches below the surface which hints that the soils will be suitable for wetland indicator species to thrive.
- The connection to BVW will allow the replication area to blend into a similar landscape provided nearby.
- This location allows the replicated wetland to fulfill the same functions and values as the existing BVW. The wetland replication area will provide protection of the following benefits: ground water supply, flood control, erosion control and sedimentation control, storm damage prevention, other water damage prevention, prevention of pollution, wildlife protection, and plant or wildlife habitat.

The following steps may be completed congruently to ensure transplanted vegetation is immediately planted.

Supervision: All work within the replication area shall be supervised by a qualified wetland scientist with a minimum of five years' experience. Wetland scientist shall submit qualification for approval by the Conservation Commission prior to the commencement of work that requires supervision. The supervisor shall submit monitoring reports to the Conservation Commission as described below. Reports shall contain details of all work performed and photographs of completed conditions.

Timing: Work shall take place ideally when the wetland impact area is not saturated. If necessary, a dewatering plan shall be approved by the Conservation Commission. The construction and installation of the replication area should be accomplished during the spring or fall growing seasons (between April 16 and May 31 or between September 16 and October 30). Planting during these periods is highly recommended. The replication area grading is advised not to commence unless the contractor can guarantee completion of the work within the replication area within the same season.

Step 1: Stake Limits of Work, Confirm Wetland Flags in Place & Install ECB – At Replication Area

Stake out limits of work and confirm wetland flags are in place for the replication area. Erosion control barriers shall then be installed in the form of staked siltation fence and mulch sock (or similar invasive-free barrier) placed at the limit of work for the replication area. These will remain in place and be maintained until the areas are completely stabilized and then may be removed after approval of the Conservation Commission. Wetland scientist shall have authority to require additional erosion control measures if deemed necessary.

Step 2a: Identify Shrubs, Woody Debris, and Boulders to be re-used in Replication Area

The wetland scientist shall identify and flag any native wetland shrubs within the replication area and the wetland fill areas that may be dug up and stockpiled for use as additional plantings in the replication area. A few plant species that will likely be flagged include, but are not limited to: red maple, highbush blueberry, winterberry, sweet pepperbush & cinnamon fern. Any flagged specimens shall be removed and carefully stockpiled in a designated area outside the replication area. Any large woody debris (rotting logs and tree stumps), moss covered boulders/rocks, ferns, and other ground cover shall also be identified and flagged for stockpiling and subsequent addition to the replication area. Wetland trees that lie or stand along the edge of the replication area may be preserved at the discretion of the wetland scientist.

Step 2b: Remove Trees and Vegetation

Once flagged trees, shrubs and woody debris specimens have all been removed and stockpiled, clear and remove all remaining vegetation within the replication area and the wetland fill areas in preparation for excavation and grading.

Step 3: Excavation of Wetland Soils at the wetland fill areas

Prior to any soil excavation, a storage area for soil and leaf litter shall be prepared; soil shall not be stored in buffer zone. Topsoil, leaf litter, and subsoil shall be stockpiled separately. Wetland soils from the wetland fill areas will be excavated and transported to the replication area. The soils immediately surrounding the wetland fill area will also be transplanted to the replication area and will be placed along the inner border of the replication area to create a natural transition from wetland to upland soils.

Step 4: Excavation of Replication Area

An excavator or backhoe shall remove existing soils up to the edge of the proposed replication area boundary, to a depth at which redoximorphic features become visible in the C-horizon at the soil surface and at least one foot below proposed final grade, all of which shall be supervised and directed by the wetland scientist. Final grading will range from 249 feet at the deepest desired depth and will elevate to 251 feet further upgradient. Ground water was discovered 12 inches below elevation 251 so it expected that ground water will be revealed as elevations are graded down to 250. Topsoil and subsoil shall be removed from the area for re-use elsewhere in the project site or removed from the site. Subsoil of the C-horizon shall be loosened prior to Step 5 to ensure soils aren't compacted prior to topsoil placement.

Step 5: Final Grading of Replication Area

Upon removal of existing soils down to the proper depth (as determined by the wetland scientist), the organic soil from the wetland fill areas will be placed within the replication area. If soils from the impact area are not sufficient, supplemental soils shall be imported sourced from composted organic materials and shall consist of a 50:50 mix of loam and organic material with an organic content between 12 and 20%. Topsoil shall be placed within the replication area to a depth 6-12" and even with the surrounding proposed elevation on design plan, to be determined by the supervising wetland scientist. Final grade shall be confirmed to be proper by the wetland scientist prior to plantings. Placement of soil shall be such that no equipment drives over or compacts placed soils. Final grading will result in micro relief of pits and mounds. Topography will create areas that pool and flood during heavy rain events and also see water near the surface during the wet season.

Step 6: Place Woody Debris and Boulders

Woody debris and moss-covered boulders shall be randomly placed throughout the replication area to provide cover for wildlife.

Step 7: Planting

Selected species, especially grasses and sedges, may be transplanted from the wetland fill areas into the replication area provided that the time of year and duration of plants' time out of soil is appropriate for survival of transplants. Precise citing of plants may be determined by the wetland scientist in the field prior to installation. All plantings (referenced in the planting list later in the report) shall be distributed randomly throughout the area; trees spaced at 10-15' on center; shrubs spaced at 6-12' on center and herbaceous species 3' or less on center. Shrubs shall be planted in clumps of 3-4 of same species. As a rule, plants of the same species will be placed in groupings that more closely mimic natural conditions. Trees planted on mounds and shrubs and herbaceous cover in depressions. Stockpiled shrubs will be placed first. All other plantings will be removed from burlap sacks, wire cages and plastic containers prior to planting. Each plant will have its roots loosened prior to planting to encourage root growth away from the planting bulb. Leaf litter shall be spread throughout area if available. Wetland seed mix shall be scattered evenly by hand throughout the replication area. Once all work is complete an erosion control barrier will be installed to enclose the replication area on the access side of the replication area.

Step 8: As-built

Interim as-built plans, complete with one-foot contours, spot elevations, surface area, and cross sections of the replication area shall be prepared by a Registered Professional Land Surveyor of the Commonwealth and submitted to the Commission within 30 days of completion of final grading.

Step 9: Erosion Controls Removal

Once replication area is stable a request shall be submitted to the Conservation Commission to remove the erosion controls around wetland replication area. Upon approval of stabilization, erosion controls shall be removed promptly, and any significant disturbance shall be seeded with a wetland seed mix as specified in the planting list.

Step 10: Replication Monitoring

a. **Seasonal monitoring reports** shall be prepared for the replication area by a qualified wetland scientist for a period of 3 additional years after installation or every year until a COC is issued by the Charlton Conservation Commission. This monitoring program will consist of early summer and early fall inspections and will include photographs and details about the vitality of the replication area. Monitoring reports shall be submitted to the Commission by November 15th of each year. Monitoring reports shall describe, using narratives, plans, and color photographs, the physical characteristics of the replication area with respect to stability, soil characteristics (i.e. horizons, depths, texture, percent gravel and rock, organic matter, Munsell hue, value and chroma, consistence and evidence of hydrologic influence), survival of vegetation and plant mortality, aerial extent and distribution, species diversity and vertical stratification (i.e. herb, shrub and tree layers). Invasive species will be documented if present, monitored and removed.

b. **At least 75% of the surface area** of the replication area shall be re-established with indigenous plant species within three growing seasons. If the replication area does not meet the 75% re-vegetation requirement by the end of the second growing season after installation, the Applicant shall submit a remediation plan to the Commission for approval that will achieve, under the supervision of a Wetland Specialist, replication goals. This plan must include an analysis of why the areas have not successfully re-vegetated and how the Applicant intends to resolve the problem.

Proposed Plantings for Wetland Replication Area (6,489 SF)

Common Name	Scientific Name	Number	Size
Trees (n = 39)			
Red Maple (FAC)	<i>Acer rubrum</i>	13	4-5'
Yellow Birch (FAC)	<i>Betula alleghaniensis</i>	13	4-5'
Swamp White Oak (FACW)	<i>Quercus bicolor</i>	13	4-5'
Shrubs (n = 84)			
Sweet Pepperbush (FAC)	<i>Clethra alnifolia</i>	21	3 gal. pot
Highbush Blueberry (FACW)	<i>Vaccinium corymbosum</i>	21	3 gal. pot
Winterberry (FACW)	<i>Ilex verticillata</i>	21	3 gal. pot
Spicebush (FACW)	<i>Lindera benzoin</i>	21	3 gal. pot
Ground Cover (n = 50)			
Cinnamon Fern (FACW)	<i>Osmundastrum cinnamomea</i>	50	1 gal. pot
Seed Mix			
New England Wetland Plants WETMIX or equivalent		1	3 lbs

In the exercise of its discretion, the Commission should consider that the project has been designed to minimize impacts to BVW to the greatest extent practicable. The BVW replication area has been expanded from its original scope and will be replicated at a ratio greater than 1:1.

4.3 Bank and LUW Impacts

The project plans for the originally approved project (DEP File #233-1132) show the originally proposed Bank and LUW replication area within a wetland replication area. With the newly proposed design, this Bank and LUW restoration will be removed as the stormwater source for the stream is being shifted to the east to allow the stormwater to discharge into the undisturbed Buffer Zone. To justify this, the wetland replication area has been expanded well above a 1:1 ratio of BVW replication to make up for the loss of Bank and LUW.

Bank

General Performance Standards associated with filling Bank must be followed for the project to be permissible. Per the WPA 310 CMR 10.54(4), the following performance standards must be met:

(a) Where the presumption set forth in 310 CMR 10.54(3) is not overcome, any proposed work on a Bank shall not impair the following:

- 1. The physical stability of the Bank;*
- 2. The water carrying capacity of the existing channel within the Bank;*
- 3. Ground water and surface water quality;*
- 4. The capacity of the Bank to provide breeding habitat, escape cover and food for fisheries;*
- 5. The capacity of the Bank to provide important wildlife habitat functions. A project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 50 feet (whichever is less) of the length of the bank found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. In the case of a bank of a river or an intermittent stream, the impact shall be measured on each side of the stream or river. Additional alterations beyond the above threshold may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.*
- 6. Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.54(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards by consisting of a span or embedded culvert in which, at a minimum, the bottom of a span structure or the upper surface of an embedded culvert is above the elevation of the top of the bank, and the structure spans the channel width by a minimum of 1.2 times the bankfull width. This presumption is rebuttable and may be overcome by the submittal of credible evidence from a competent source. Notwithstanding the requirement of 310 CMR 10.54(4)(a)5., the impact on bank caused by the installation of a stream crossing is exempt from the requirement to perform a habitat evaluation in accordance with the procedures contained in 310 CMR 10.60.*

The proposed project will result in the loss of 40 linear feet of Bank and will address the aforementioned regulations in the following way:

1. The physical stability of the filled Bank will be impacted since it will no longer be re-created within the replication area. To justify this, the replication area has been expanded well above a 1:1 ratio of BVW replication to make up for the loss of Bank.
2. The carrying capacity of the channel will be lost because Bank will no longer be replicated. To justify this, the wetland replication has been expanded to compensate for the loss of water carrying capacity that the Bank once provided.
3. Ground water and surface water quality will not be impacted.
4. The capacity to provide breeding habitat, escape cover and food for fisheries will not be impacted as there is no fisheries present within the existing Bank resource area.
5. A wildlife habitat analysis is yet to be performed and will be submitted to the Commission as supplemental information to address this regulation.
6. A stream crossing is not proposed as part of this project.

(b) Notwithstanding the provisions of 310 CMR 10.54(4)(a), structures may be permitted in or on a Bank when required to prevent flood damage to facilities, buildings and roads constructed prior to the effective date of 310 CMR 10.51 through 10.60 or constructed pursuant to a Notice of Intent filed prior to the effective date of 310 CMR 10.51 through 10.60 (April 1, 1983), including the renovation or reconstruction (but not substantial enlargement) of such facilities, buildings and roads, provided that the following requirements are met:

1. *The proposed protective structure, renovation or reconstruction is designed and constructed using best practical measures so as to minimize adverse effects on the characteristics and functions of the resource area;*
2. *The applicant demonstrates that there is no reasonable method of protecting, renovating or rebuilding the facility in question other than the one proposed.*

The proposed project does is not proposing impacts to prevent flood damage.

(c) Notwithstanding the provisions of 310 CMR 10.54(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of Rare Species, as identified by procedures established under 310 CMR 10.59.

The proposed project site is not located within an ACEC and therefore will not destroy or otherwise impair any portion of a BVW that is within an ACEC.

LUW

General Performance Standards associated with filling LUW must be followed for the project to be permissible. Per the WPA 310 CMR 10.56(4), the following performance standards must be met:

(a) Where the presumption set forth in 310 CMR 10.56(3) is not overcome, any proposed work within Land under Water Bodies and Waterways shall not impair the following:

1. *The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;*

2. *Ground and surface water quality;*
3. *The capacity of said land to provide breeding habitat, escape cover and food for fisheries; and*
4. *The capacity of said land to provide important wildlife habitat functions. A project or projects on a single lot, for which Notice(s) of intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures established under 310 CMR 10.60.*
5. *Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.56(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards by consisting of a span or embedded culvert in which, at a minimum, the bottom of a span structure or the upper surface of an embedded culvert is above the elevation of the top of the bank, and the structure spans the channel width by a minimum of 1.2 times the bankfull width. This presumption is rebuttable and may be overcome by the submittal of credible evidence from a competent source. Notwithstanding the requirements of 310 CMR 10.56(4)(a)4., the impact on Land under Water Bodies and Waterways caused by the installation of a stream crossing is exempt from the requirement to perform a habitat evaluation in accordance with the procedures established under 310 CMR 10.60.*

The proposed project will result in the loss of 267 SF of LUW and will address the aforementioned regulations in the following way:

1. The carrying capacity of the channel will be lost because LUW will no longer be replicated. To justify this, the wetland replication has been expanded to compensate for the loss of water carrying capacity that the LUW once provided.
2. Ground water and surface water quality will not be impacted.
3. The capacity to provide breeding habitat, escape cover and food for fisheries will not be impacted as there is no fisheries present within the existing LUW resource area.
4. A wildlife habitat analysis is yet to be performed and will be submitted to the Commission as supplemental information to address this regulation.
5. A stream crossing is not proposed as part of this project.

(b) Notwithstanding the provisions of 310 CMR 10.56(4)(a), the issuing authority may issue an Order in accordance with M.G.L. c. 131, § 40 to maintain or improve boat channels within Land under Water Bodies and Waterways when said work is designed and carried out using the best practical measures so as to minimize adverse effects such as the suspension or transport of pollutants, increases in turbidity, the smothering of bottom organisms, the accumulation of pollutants by organisms or the destruction of fisheries habitat or nutrient source areas.

The proposed project does not involve work related to this regulation.

(c) Notwithstanding the provisions of 310 CMR 10.56(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.

The proposed project site is not located within an ACEC and therefore will not destroy or otherwise impair any portion of a BVW that is within an ACEC.

5.0 Conclusion

The project has been designed to comply with the regulations of 310 CMR 10.00 et al and has provided a larger replication area than required to justify the loss of Bank and LUW resource areas. The applicant requests that the Commission permit the proposed work with an Order of Conditions.

If there are any questions concerning this submission, please do not hesitate to contact us.

Very truly yours,
GODDARD CONSULTING, LLC

A handwritten signature in black ink, appearing to read 'Scott Goddard', written over a horizontal line.

Scott Goddard, Principal & PWS

Cc: MassDEP-CERO Office, Wetland Division, 8 New Bond Street, Worcester, MA 01606
John Nenart, RTE 85 Realty Corp, P.O. Box, Mendon, MA 01756

Photos of Site



Photo 1: Vegetation within the existing BVW.



Photo 2: Large downed woody debris in existing BVW will be relocated to the Wetland Replication Area. The gravel area can be seen at the right edge of the photo, adjacent to the BVW.



Photo 3: Soil test pit in a proposed BVW fill area , revealing dark, organic soil material below the surface. This soil will be removed from the BVW and placed within the Wetland Replication Area to mimic original BVW soil conditions.



Photo 4: Proposed Wetland Replication Area (6,489 SF). The gravel area, proposed to be a parking lot, can be seen in the distance.



Photo 5: The BVW with the intermittent stream, Bank and LUW resource areas to be impacted for the construction of the parking lot.



Photo 6: The existing gravel area permitted under the previous OOC. The BVW can be seen on the left side of the photo, behind the large mounds of gravel.

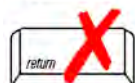


WPA Form 3 – Notice of Intent

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

MassDEP File Number
Document Transaction Number
Milford
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>21 Beaver Street</u>	<u>Milford</u>	<u>01757</u>
a. Street Address	b. City/Town	c. Zip Code
<u>Latitude and Longitude:</u>	<u>42.1470336</u>	<u>-71.4866811</u>
	d. Latitude	e. Longitude
<u>Map 44</u>	<u>Lot 25A</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>John</u>	<u>Nenart</u>	
a. First Name	b. Last Name	
<u>RTE 85 Realty Corp</u>		
c. Organization		
<u>P.O. Box 444</u>		
d. Street Address		
<u>Mendon</u>	<u>MA</u>	<u>01756</u>
e. City/Town	f. State	g. Zip Code
<u>508-422-1050</u>	<u>johnn@imperialcars.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

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

<u></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>Scott</u>	<u>Goddard</u>	
a. First Name	b. Last Name	
<u>Goddard Consulting LLC</u>		
c. Company		
<u>291 Main Street, Suite #8</u>		
d. Street Address		
<u>Northboro</u>	<u>MA</u>	<u>01532</u>
e. City/Town	f. State	g. Zip Code
<u>508-393-3784</u>	<u>scott@goddardconsultingllc.com</u>	
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$1,000 + \$100 Advertisement Fee</u>	<u>\$487.50</u>	<u>\$512.50 + \$100 Ad fee</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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

Milford

City/Town

A. General Information (continued)

6. General Project Description:

Construction of a parking lot with stormwater discharge within 100-foot buffer zone to Bordering Vegetated Wetlands. Work involves filling Bordering Vegetated Wetlands (BVW).

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

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input checked="" type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> 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:

Worcester

a. County

51954

c. Book

b. Certificate # (if registered land)

371

d. Page Number

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

- 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.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

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



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

Provided by MassDEP:

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input checked="" type="checkbox"/> Bank	40 1. linear feet	0 2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	3,545 plus 860 prior 1. square feet	6,489 2. square feet
c. <input checked="" type="checkbox"/> Land Under Waterbodies and Waterways	267 1. square feet 0 3. cubic yards dredged	0 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.



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

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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. <input type="checkbox"/> Barrier 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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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Milford

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**

2017

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 <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/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.



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
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City/Town

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

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/ mesa/ mesa_fee_schedule.htm). 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, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/ mesa/ mesa_exemptions.htm; 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
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

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.



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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Milford

City/Town

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

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

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.



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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Document Transaction Number

Milford

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.

"495 Transportation Depot I" Transportation Terminal Site Plan, 21 Beaver Street, Milford, Massachusetts

Guerriere & Halnon, Inc.

Elizabeth A. Mainini-Sanchioni

b. Prepared By

c. Signed and Stamped by

9/8/2020

40'=1"

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:

5406, 5407

9/18/2020, 9/18/2020

2. Municipal Check Number

3. Check date

5405

9/18/2020

4. State Check Number

5. Check date

Rte 85 Realty Corporation

6. Payor name on check: First Name

7. Payor name on check: Last Name



WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number



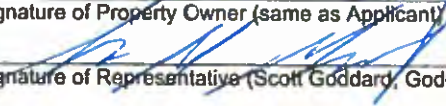
Milford

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.

	9-18-20
1. Signature of Applicant (John Nenart, Route 85 Realty Corp.)	2. Date
	
3. Signature of Property Owner (same as Applicant)	4. Date
	9/21/20
5. Signature of Representative (Scott Goddard, Goddard Consulting, LLC)	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:

21 Beaver St	Milford
a. Street Address	b. City/Town
5405	\$487.50
c. Check number	d. Fee amount

2. Applicant Mailing Address:

John	Nenart	
a. First Name	b. Last Name	
Rte 85 Reality Corp		
c. Organization		
P.O. Box 444		
d. Mailing Address		
Mendon	MA	01756
e. City/Town	f. State	g. Zip Code
508-422-1050	johnn@imperialcars.com	
h. Phone Number	i. Fax Number	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).

THIS CHECK IS VOID WITHOUT A BLUE & GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

Rte 85 Realty Corporation
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Rockland Trust
Milford, MA 01757

5405
Printed-WebUser-Auth: 09/18/20 11:30:19 am
DATE: 9/18/2020

 **PAY ONLY 487.50 CENTS**
Four Eight Seven

\$ 487.50

PAY Four Hundred Eighty-Seven and 50/100 Dollars

TO THE ORDER OF Commonwealth of Massachusetts

MEMO: 21beaverst



SIGNATURE HAS A COLORED BACKGROUND • BORDER CONTAINS MICROPRINTING

⑈005405⑈ ⑆011303327⑆ 181536510⑈

THIS CHECK IS VOID WITHOUT A BLUE & GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

Rte 85 Realty Corporation
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Rockland Trust
Milford, MA 01757

5406
Printed-WebUser-Auth: 09/18/20 11:30:19 am
DATE: 9/18/2020

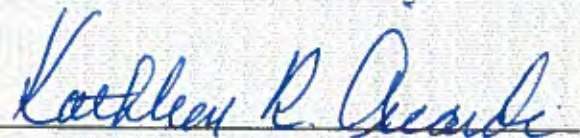
 **PAY ONLY 512.50 CENTS**
Five One Two

\$ 512.50

PAY Five Hundred Twelve and 50/100 Dollars

TO THE ORDER OF Town of Milford

MEMO: 21beaverst



SIGNATURE HAS A COLORED BACKGROUND • BORDER CONTAINS MICROPRINTING

⑈005406⑈ ⑆011303327⑆ 181536510⑈

THIS CHECK IS VOID WITHOUT A BLUE & GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

Rte 85 Realty Corporation
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Rockland Trust
Milford, MA 01757

5407
Printed-WebUser-Auth: 09/18/20 11:30:20 am
DATE: 9/18/2020

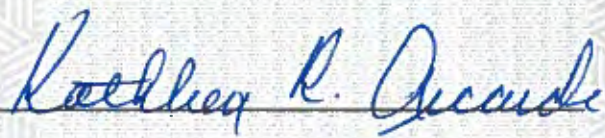
 **PAY ONLY 100.00 CENTS**
One Zero Zero

\$ 100.00

PAY One Hundred and 00/100 Dollars

TO THE ORDER OF Town of Milford

MEMO: 21beaverst



SIGNATURE HAS A COLORED BACKGROUND • BORDER CONTAINS MICROPRINTING

⑈005407⑈ ⑆011303327⑆ 181536510⑈

201116 001 000

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, Mitch Maslanka hereby certify under the pains and penalties of perjury that on 10/8/2020 I gave notification to abutters in Compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dating April 8, 1994 in connection with the following matter:

A Notice Of Intent was filed under the Massachusetts Wetlands Protection Act by John Nenart of Rte. 85 Reality Corporation with the Milford Conservation Commission on 10/7/2020 for property located at 21 Beaver Street (Map 44, lot 25A) in Milford, MA for the construction of a parking lot within the 100-foot buffer zone to Bordering Vegetated Wetlands (BVW) and for filling BVW.

The form of the notification, and the list of abutters to whom it was given, and their addresses, are attached to this Affidavit of Service.

Mitch Maslanka
(Name)

10-6-2020
(Date)

Notification to Abutters Under the Massachusetts Wetlands Protection Act

In accordance with the Massachusetts General Laws Chapter 131, Section 40 (the Wetlands Protection Act) you are hereby notified of the following:

1. The applicant's name is John Nenart
2. The applicant has filed the following application with the Milford Conservation Commission
 - A Notice of Intent, seeking permission to alter an area that maybe or may not be subject to protection under the Wetlands Protection Act and/or the Bylaw.
 - A request to amend an existing Order of Conditions.
 - A Notice of Resource Area Delineation, seeking to determine the extent of areas subject to protection under the Wetlands Protection Act and/or Bylaw.
3. The address or location of the site where the activity is proposed is: 21 Beaver Street, (map 44, lot 25A)
4. The proposed activity is construction of a parking lot in the buffer zone, storm drainage, and filling of wetlands and flood zone.
5. Copies of the above application may be examined at the Milford Conservation Commission's office, located in the Town Hall, 52 Main St, Milford, MA Copies may be obtained at the office for a fee or from the applicant.
6. Information regarding the date, time, and place of the public hearing may be obtained:
 - a. by calling the Milford Conservation Commission
 - b. from the applicant's representative; Goddard Consulting LLC at 1-508-393-3784.

PLEASE NOTE:

1. Notice of the public hearing including its date, time, and place will be published at least five business days in advance in the local newspaper and will be posted in the Town Hall not less than 48 hours in advance.
2. For more information about this application, the Wetlands Protection Act, or Notice of Intent Process, please contact the Conservation Commission or the Massachusetts Department of Environmental Protection (DEP) Central Office, 8 New Bond Street, Worcester, MA 01606



**TOWN OF MILFORD
BOARD OF ASSESSORS
CERTIFIED ABUTTERS LIST**

Certified by:

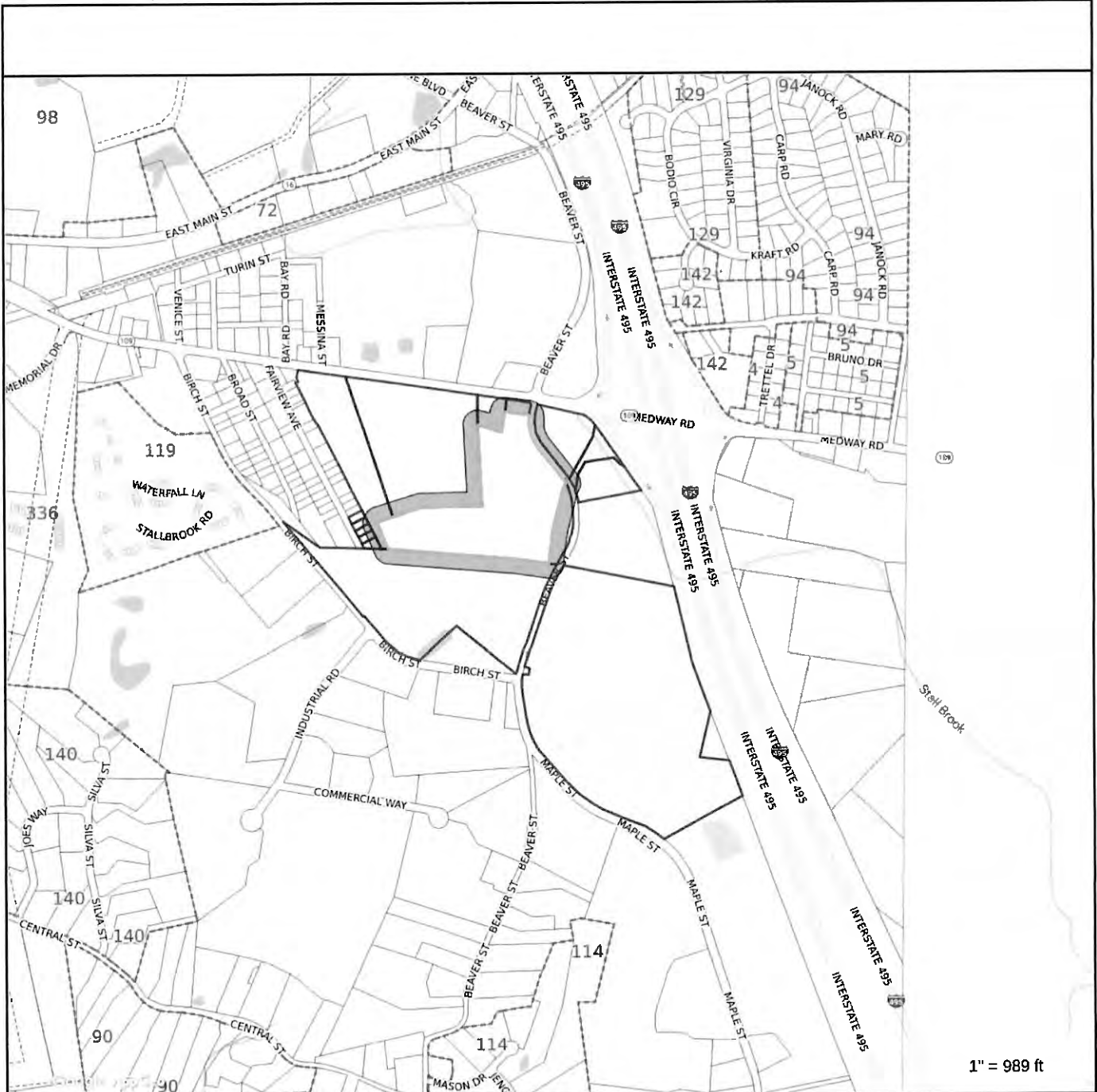
Date: 09/21/2020

100 ft

Subject Properties - 21 Beaver Street

Abutters

ID	Site Address	Owner	Owner 2	Address	City	State	Zipcode
43-0-15F	REAR FAIRVIEW AV	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
43-0-15C	REAR FAIRVIEW AV	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
43-0-15D	REAR FAIRVIEW AV	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
44-0-24	BEAVER ST	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
45-0-10B	BEAVER ST	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
43-0-2	30 BIRCH ST	TRIPLE BIRCH PROPERTIES LLC		4 CHARLESVIEW ROAD	HOPEDALE	MA	01747
43-0-5A	91 MEDWAY RD	MOLINARI JOHN A & ADELE TRSTS	C/O GP-MILFORD REALTY TRUST	ONE HARTFIELD BLVD STE 102	EAST WINDSOR	CT	06098
44-0-25	26 BEAVER ST	RTE 85 REALTY CORP		PO BOX 444	MENDON	MA	01756
43-0-15G	REAR FAIRVIEW AV	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
43-0-15E	REAR FAIRVIEW AV	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
44-0-23B	BEAVER ST	RTE 85 REALTY CORP		8 UXBRIDGE RD	MENDON	MA	01756
44-0-23C	BEAVER ST	RTE 85 REALTY CORP		8 UXBRIDGE RD	MENDON	MA	01756
43-0-5	89 MEDWAY RD	MOLINARI JOHN & ADELE TRUSTEES		89 MEDWAY RD	MILFORD	MA	01757
44-0-26	147 MEDWAY RD	A & R SERRANO INC	THE MOLINARI TRUST OF 1968	25 JOSIAH DRIVE	UPTON	MA	01568
43-0-3	143 MEDWAY RD	A + R SERRANO INC	C/O JANICE KIRBY	25 JOSIAH DRIVE	UPTON	MA	01568



1" = 989 ft

Property Information

Property ID 44-0-25A
Location 21 BEAVER ST
Owner RTE 85 REALTY CORP



MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of Milford, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated March 2018
 Data updated 11/16/2018

Legend



Parcel Boundary



Hydrologic Connection



DEP Wetland

FEMA National Flood Hazard Layer

Flood Zone Designations



AE: 1% Annual Chance of Flooding, with BFE



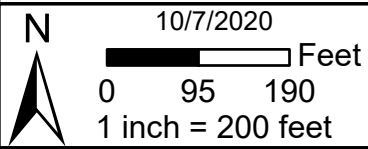
AE: Regulatory Floodway



X: 0.2% Annual Chance of Flooding

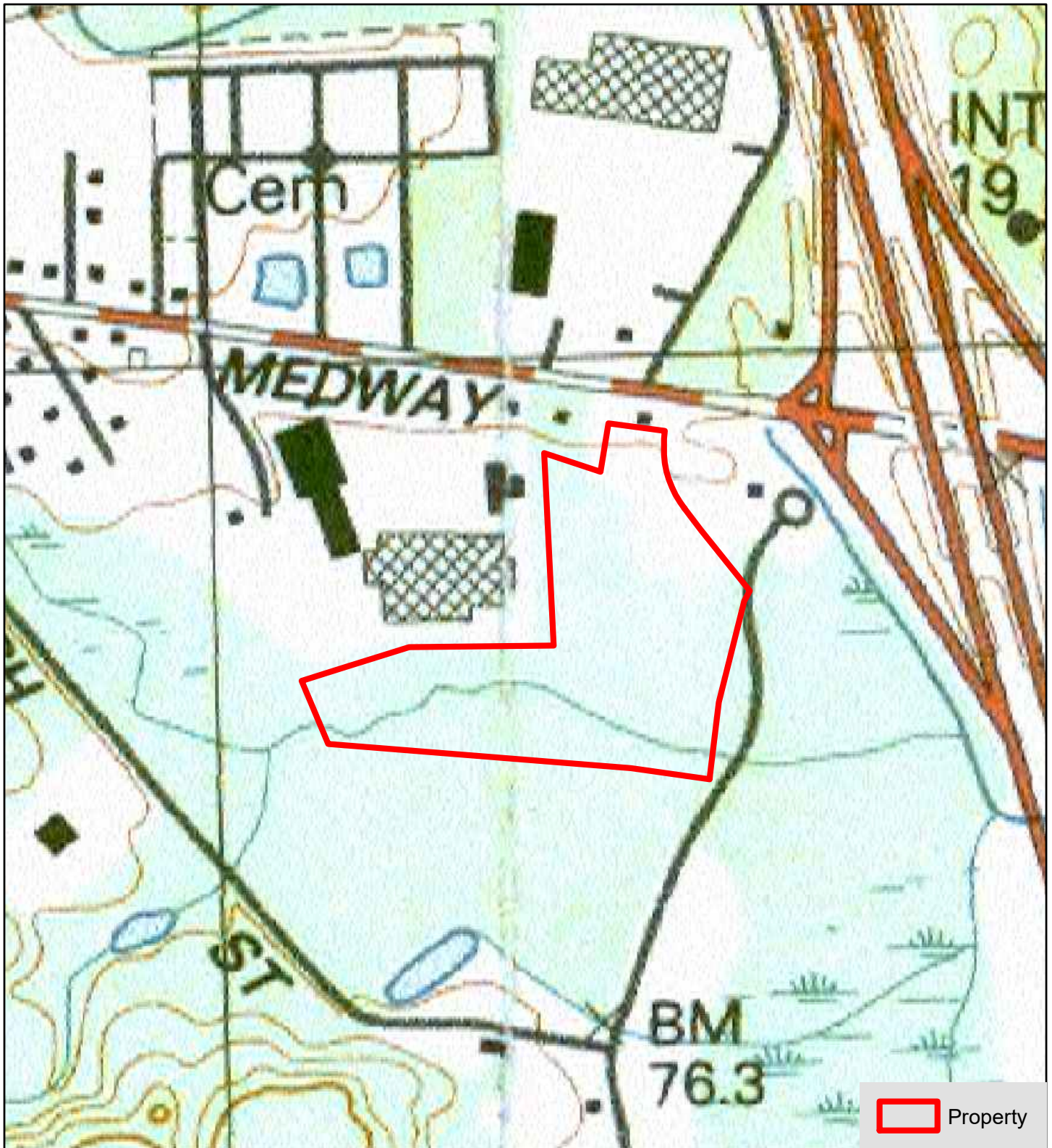


Orthoview of Site
21 Beaver Street - Milford, MA
(Map: 44, Lot: 25A)



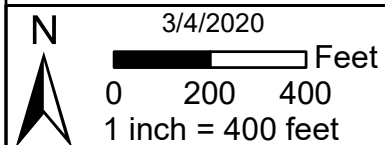
GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"



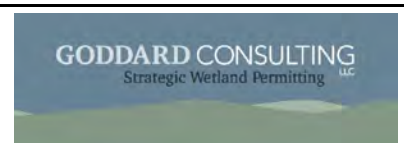


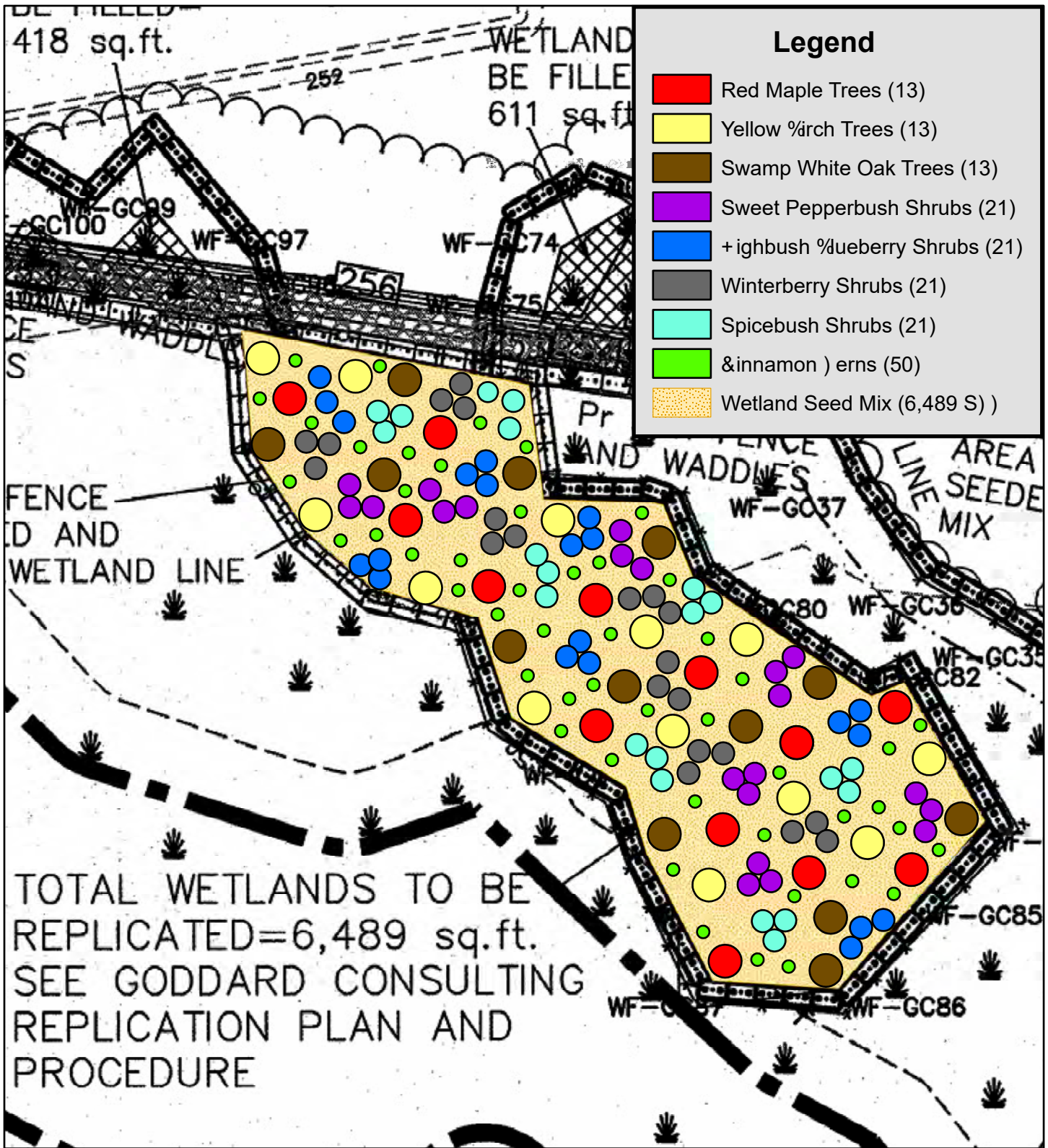
USGS Site Locus

21 Beaver Street - Milford, MA
(Map: 44, Lot: 25A)



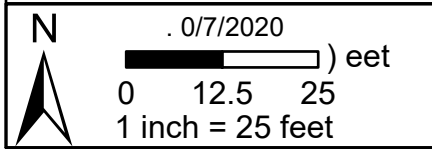
GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"





Wetland Replication Area - Planting Plan

21 Beaver Street - Milford, MS
(Map: 44, Lot: 25\$)



* IS ' ata Source: "Office of * eographic Information (MassGIS), &ommonwealth of Massachusetts, MassIT"



Stormwater Report

for

“495 Transportation Terminal”

Milford, MA

Date: December 26, 2019

Revised: February 19, 2020

Prepared By:
Guerriere & Halnon, Inc.
333 West Street
Milford, MA



Prepared for:
Route 85 Realty Corp
P.O. Box 444
Mendon, MA 01756



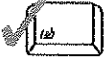
**Guerriere &
Halnon, Inc.**
ENGINEERING & LAND SURVEYING



Checklist for Stormwater Report

A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



 1/3/20
Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development
- Redevelopment
- Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
 - Credit 1
 - Credit 2
 - Credit 3
- Use of "country drainage" versus curb and gutter conveyance and pipe
- Bioretention Cells (includes Rain Gardens)
- Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- Treebox Filter
- Water Quality Swale
- Grass Channel
- Green Roof
- Other (describe): _____

Standard 1: No New Untreated Discharges

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- Soil Analysis provided.
- Required Recharge Volume calculation provided.
- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - Static
 - Simple Dynamic
 - Dynamic Field¹
- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - Site is comprised solely of C and D soils and/or bedrock at the land surface
 - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - Solid Waste Landfill pursuant to 310 CMR 19.000
 - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - is within the Zone II or Interim Wellhead Protection Area
 - is near or to other critical areas
 - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - involves runoff from land uses with higher potential pollutant loads.
 - The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

- The BMP is sized (and calculations provided) based on:
 - The ½" or 1" Water Quality Volume or
 - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted *prior to* the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does *not* cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has *not* been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - Limited Project
 - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - Bike Path and/or Foot Path
 - Redevelopment Project
 - Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has *not* been included in the Stormwater Report but will be submitted *before* land disturbance begins.
- The project is *not* covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - Name of the stormwater management system owners;
 - Party responsible for operation and maintenance;
 - Schedule for implementation of routine and non-routine maintenance tasks;
 - Plan showing the location of all stormwater BMPs maintenance access areas;
 - Description and delineation of public safety features;
 - Estimated operation and maintenance budget; and
 - Operation and Maintenance Log Form.
- The responsible party is *not* the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached;
- NO Illicit Discharge Compliance Statement is attached but will be submitted *prior to* the discharge of any stormwater to post-construction BMPs.

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SITE LOCATION & DESCRIPTION

This report was prepared on behalf of the property owner Route 85 Realty Corp. The project site is located on the west side of Beaver Street near its intersection with Route 109 in Milford, MA. The property is approximately 14.64 acres that is bordered on the east by Beaver Street, on the south by Town of Milford property, on the west by Milford Plaza, and to the north, Shell Gas Station and McDonalds. The original wooded site has been disturbed by the work previously permitted in 2016. Approximately 3/4 of the site is impacted by a large wetland on flood plain on the southerly end of the site.

PROJECT DESCRIPTION

The owner is proposing to construct a Transportation Terminal for the purpose of parking 425 vans for the purpose of daily use for deliveries from the Amazon Facility on Industrial Road. The project consists of the development of approximately 3.32 acres of the site as paved parking and includes a 600 s.f. storage building, and lighting for the parking lot.

DESCRIPTION OF EXISTING DRAINAGE

The runoff from the proposed 3.32 acre developed area currently flows overland to the large wetlands area to the south.

DESCRIPTION OF PROPOSED DRAINAGE FACILITIES

The runoff generated from the proposed development will be collected in a catch basin to drain manhole system, using HDPE pipe. A proposed 260-unit StormTech Chamber detention system will be constructed to attenuate the peak flows for the 2, 10, and 100-year storm events. Static recharge for the site will be provided in the area below the structure outlet invert. T.S.S. removal will occur within the hydrodynamic separator prior to discharged to the detention basin.

This report documents design compliance with the applicable sections of the Massachusetts Stormwater Management Standards 1-10.

Stormwater Design Parameter:

The stormwater management system was designed to control the post-development rate of peak rainfall runoff from the site by keeping it below the post-development peak rate of rainfall runoff as stated as the objective in the Massachusetts Stormwater Handbook. These calculations were performed using the HydroCAD hydraulic program, developed by applied Microcomputer System. The HydroCAD software is based upon the Soil Conservation Service, “Technical Release 55 – Urban Hydrology for Small Watersheds” and is generally accepted industry methodology.

The analysis was performed for the 2-year, 10-year, 25-year, and 100-year 24-hour storm events.

The following data was required for input:

- Watershed Area: Areas of each watershed were calculated and expressed in square feet for these calculations.
- SCS Curve Number (Cn): Based on the cover type and hydrologic soil group, a weighted curve number (CN) was determined for each of the existing watersheds utilizing Table 2-2a- *Runoff Curve Numbers For Urban Areas* and *Worksheet 2, Runoff Curve Number and Runoff* from the Soil Conservation Service Technical Release 55 – Urban Hydrology for Small Watersheds.
- Time of Concentration, Tc (Minutes): The time of concentration for each watershed was determined by finding the time necessary for runoff to travel from the hydraulically most distant point in the watershed to the point of concentration. For the proposed conditions the minimum time of 6 minutes was used for runoff to reach the most distant catch basin.
- SCS 24-Hour Storm Type: For the greater New England region, a Type III storm rainfall distribution is recommended for drainage calculations and was used for this project.
- Rainfall Precipitation: Rainfall precipitations used the HydroCad TP-40-Rain for Worcester County for the 2, 10, and 100-year storm events and are as follows:

2-year storm event:	3.2 inches
10-year storm event:	4.7 inches
100-year storm event:	6.8 inches

An on-site conventional storm drainage collection system is designed based on the “Rational Method” using Manning’s equation to carry a minimum 25-year storm event without surcharge (See Pipe Sizing Attachments). The proposed drainage pipes will be High Density Polyethylene Pipe.

Standard 1: No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

All Paved area runoff will sheet flow across the pavement areas, accumulate into hooded catch basins, connect with drain pipe to a hydrodynamic separator, which discharges to the StormTech detention structure. The outlet pipe will discharge to an armored riprap slope to prevent erosion. No new untreated stormwater discharges are proposed.

Standard 2: Stormwater management systems shall be designed so that the post-development peak discharge rates do not exceed pre-development peak discharge rates.

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 Milford, MA

To meet Standard 2, the post-development peak discharge rate must be equal to or less than pre-development rates to prevent storm damage and downstream and offsite flooding from the 2-year thru and 100-year 24-hour storm events.

Peak discharge rates were calculated and evaluated at the same locations – at the wetland system, on the easterly side of the development.

In summary of the attached drainage analysis (HydroCAD), the peak discharge rates leaving the point of evaluation in cubic feet per second (cfs) are as follows;

Storm Events	Run off		
	Pre (cfs)	Post (cfs)	Change (cfs)
2-year	3.94	3.61	-0.33
10-year	7.64	6.22	-1.42
100-year	13.16	9.21	-3.95

Standard 3: Loss of annual recharge to ground water shall be eliminated or minimized through the use of environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post- development site shall approximate the annual recharge from pre-development conditions based on soil type. This standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

Hydrologic Group	Volume to Recharge x Total Impervious Area
A	0.60 inches of runoff
B	0.35 inches of runoff
C	0.25 inches of runoff
D	0.10 inches of runoff

The required volume of recharge for post-development conditions is calculated as follows;

Proposed Increase to Impervious Area: 3.32 acres (144,619 sf)

Required Recharge Volume

$$0.35'' \times 1' / 12'' \times 144,619 \text{ sf} = \underline{\underline{4,218}} \text{ cf} \quad (\text{B soils})$$

StormTech

Total storage volume provided below overflow outlet invert @ 250.40= **7,111 cf**

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Soils

Soils underlying the site are defined as map unit 260B Sudbury fine sandy loam. We have estimated the soil as hydrologic group "B" for the majority of the site based on Web Soil Survey USDA/NRCS Soil Map. The recharge under the StormTech Chambers infiltration design is based on a calculation of the B soil type.

Calculations show that during a 100-year storm event, the StormTech System will completely dewater within approximately 33.0 hours (See Drawdown calculations in the appendix) which is in compliance with the maximum dewatering time of 72 hours.

Standard 4: Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This standard is met when:

- a) Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained;*
- b) Structural stormwater best management practices are sized to capture the required water quality volume as determined in accordance with the Massachusetts Stormwater Handbook; and*
- c) Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.*

The Water Quality Volume requiring 80% TSS removal, is calculated as follows:

The required water quality volume is based on 1.0". The water quality volume equals 1.0 inches of runoff times the increased impervious area of the post-development site.

Proposed Impervious Area
Total Site Impervious Area = 144,619 sf
Impervious area to be treated = 144,619 sf

Total volume to be treated:
 $1.0'' \times 1\frac{1}{12}'' \times 144,619 \text{ sf} = \underline{\underline{12,052 \text{ cf Water Quality Volume Required}}}$

Provided Water Quality Volume:

All stormwater flows through the catch basins, hydrodynamic separators and detention structures.

See TSS Removal Calculations in Attachment Section.

Standard 4: requires the development and implementation of suitable practices for source control and pollution prevention. These measures must be identified in a long-term pollution prevention plan.

The long-term pollution prevention plan is incorporated into the Operation and Maintenance Plan required by Standard 9.

Standard 5: For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to

Stormwater Report
495 Transportation Terminal
Milford, MA

eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable.

The proposed project is not a use with higher potential pollutant loads.

Standard 6: Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply and stormwater discharges near or to any other critical area require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook.

The subject property does not discharge stormwater within the Zone II of a public water supply.

Standard 7: A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable:

This Site is not a redevelopment project.

Standard 8: A plan to control construction-related impacts, including erosion, sedimentation, and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

During land disturbance and construction activities, project proponents must implement controls that prevent erosion, control sediment movement, and stabilize exposed soils to prevent pollutants from moving offsite or entering wetlands or waters. Land disturbance activities include demolition, construction, clearing, excavation, grading, filling, and reconstruction.

Construction Period Pollution Prevention Plan and Erosion and Sedimentation Control.
EPA NPDES – Storm Water Pollution Prevention Plan (SWPPP)

A. Names of Persons or Entities Responsible for Plan Compliance

John Nenart
Route 85 Realty Corp.
P.O. Box 444
Mendon, MA 01756
Tel : 508-422-1050
johnn@imperialcars.com

B. Construction Period Pollution Prevention Measures

1. Inventory materials to be present on-site during construction.
2. Train employees and subcontractors in prevention and clean up procedures.
3. All materials stored on site will be stored in their appropriate containers and if possible, under a roof or covered.
4. Follow manufacturer's recommendation for disposal of used containers.
5. Store only enough products on site to do the job.

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6. On site equipment, fueling and maintenance measures:
 - a. Inspect on-site vehicles and equipment daily for leaks.
 - b. Conduct all vehicle and equipment maintenance and refueling in front of building, away from storm drains and Wetlands.
 - c. Perform major repairs and maintenance off site.
 - d. Use drip pans, drip cloths or absorbent pads when replacing spent fuels.
 - e. Collect spent fuels and remove from site, per Local and State regulations.
 - f. Maintain a clean construction entrance; install a crushed stone apron where truck traffic is frequent to reduce soil compaction constant sweeping is required and limit tracking of sediment into streets, sweeping street when silt is observed on street.
 7. A temporary concrete washout station and equipment wash station shall be located on the site. Concrete washout station and equipment wash station shall not be within the 100' wetland buffer. Areas shall be surrounded with a silt fence to contain materials and provide ease of cleanup.
 8. Stock pile materials, and maintain Erosion Control around the materials where it can easily be accessed. Maintain easy access to clean up materials to include brooms, mops, rags gloves, goggles, sand, sawdust, plastic and metal trash containers.
 9. Clean up spills.
 - a. Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (sawdust, cat litter and/or rags and absorbent pads).
 - b. Sweep up dry materials immediately. Never wash them away or bury them.
 - c. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil in a certified container and notify a certified hauler for removal.
 - d. Report significant spills to the Fire Department.
 10. It is the responsibility of the site superintendent or employees designated by the Applicant to inspect erosion control and repair as needed, also to inspect all on site vehicles for leaks and check all containers on site that may contain hazardous materials daily.
- C. Site Development Plans
1. See Site Plan set "Platinum Park" Transportation Terminal, Milford, Massachusetts" dated May 29, 2019, prepared by Guerriere & Halnon, Inc.
- D. Construction Erosion and Sedimentation Control Plan:
1. See Site Plan set "Platinum Park" Transportation Terminal, Milford, Massachusetts" dated May 29, 2019, prepared by Guerriere & Halnon, Inc.
- E. Plans
1. Construction Sequencing Plan
 - a. A NPDES NOI shall be filed with the EPA.
 - b. Record Order of Conditions - The site superintendent shall be aware of all the Conditions contained within the Order including inspection schedules.
 - c. Install DEP File # Sign.
 - d. Prior to any work on the site including tree/brush clearing, the approved limit of clearing as well as the location of the proposed erosion control devices (such as silt fence/straw bales, etc.) must be staked on the ground under the direction of a Massachusetts registered Professional Land Surveyor.
 - e. Install erosion control barrier at locations depicted on the plans.

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- f. Erosion control to be inspected by either the design engineer (or agent) or an erosion control monitor appointed by the Town of Milford, MA.
 - g. Erosion control devices shall be stored on the site to be used in case of an emergency (large storm).
 - h. Perform tree/brush removal.
 - i. Strip off top and subsoil. Stockpile material to be reused away from any drainage inlet or protected wetland areas, remove excess material from the site. Install and maintain erosion control barrier around stockpile.
 - j. Rough grade site, maintaining temporary low areas/sediment traps for sediment accumulation and away from the wetlands and prevent sedimentation from migrating from the site.
 - k. Construct detention basin, outlets/outfalls and install pipes, manholes and catch basins. Stabilize side slopes with loam, seed and mulch.
 - l. Install underground utilities; protect all open drainage structures with erosion/siltation control devices, and rope off any areas susceptible to heavy vehicle damage.
 - m. Prepare compacted parking lot base.
 - n. Loam and seed (mulch as required) disturbed areas of site other than immediately adjacent to the parking lot.
 - o. Install binder course of bituminous asphalt.
 - p. Install curbing and final pavement wearing course.
 - q. Finish grade - loam and seed and landscaping.
 - r. Maintain all erosion control devices until site is stabilized, final inspections are performed, and a Certificate of Compliance is issued by the Conservation Commission.
 - s. The Contractor shall be responsible to schedule any required inspections of his/her work.
2. Construction Waste Management Plan
- a. Dumpster for trash and bulk waste collection shall be provided separately for construction.
 - b. Recycle materials whenever possible (paper, plaster cardboard, metal cans). Separate containers for material are recommended.
 - c. Segregate and provide containers for disposal options for waste.
 - d. Do not bury waste and debris on site.
 - e. Certified haulers will be hired to remove the dumpster container waste as needed. Recycling products will also be removed off site weekly.
- F. Operation and Maintenance of Erosion and Sedimentation Controls
The operation and maintenance of sedimentation control shall be the responsibility of the contractor. The inspection and maintenance of the storm water component shall be performed as noted below. The contractor shall, at all times have erosion control in place. The contractor, based on future weather reports shall prepare and inspect all erosion control devices; cleaning, repairing and upgrading is a priority so that the devices perform as per design. Inspect the site during rain events. **Don't stay away from the site.** At a minimum, there should be inspection to assure the devices are not clogged or plugged, or that devices have not been destroyed or damaged during the rain event. After a storm event inspection is required to clean and repair any damage components. Immediate repair is required.
- G. Inspection and Maintenance Schedules

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1. Inspection must be conducted at least once every 7 days and within 24 hours prior to and after the end of a storm event 0.5 inches or greater.
2. Inspection frequency can be reduced to once a month if:
 - a. The site is temporarily stabilized.
 - b. Runoff is unlikely due to winter conditions, when site is covered with snow or ice.
3. Inspections must be conducted by qualified personnel, "qualified personnel" means a person knowledgeable in the principles and practice of erosion and sediment controls and who possess the skills to assess the conditions and take measures to maintain and ensure proper operation, also to conclude if the erosion control methods selected are effective.
4. For each inspection, the inspection report must include:
 - a. The inspection date.
 - b. Names, titles of personnel making the inspection.
 - c. Weather information for the period since the last inspection.
 - d. Weather information at the time of the inspection.
 - e. Locations of discharges of sediment from the site, if any.
 - f. Locations of BMP's that need to be maintained.
 - g. Locations where additional BMP's may be required.
 - h. Corrective action required or any changes to the SWPPP that may be necessary.
5. Qualified personnel shall inspect the following in-place work;

Inspection Schedule:

Erosion Control	Weekly
Catch Basins	Weekly
Temporary Sedimentation Traps/Basins	Weekly

Please Note: Special inspections shall also be made after a significant rainfall event.

Maintenance Schedule

Erosion Control Devices Failure	Immediately
Temporary Sedimentation Traps/Basins	As needed

Please Note: Special maintenance shall also be made after a significant rainfall event.

H. Inspection and Maintenance Log Form.

1. See Construction Phase Inspection and Maintenance Form attached

Standard 9: A Long –Term Operation and Maintenance (O&M) Plan shall be developed and implemented to ensure that storm water management systems function as designed.

The following shall serve as the (O&M) Plan required by Standard 9, as well as the Long-Term Pollution Prevention Plan required by Standard 4.

A. Names of Persons or Entities Responsible for Plan Compliance:

John Nenart
Route 85 Realty Corp.
P.O. Box 444
Mendon, MA 01756
Tel: 508-422-1050
Email: johnn@imperialcars.com

B. Good housekeeping practices

1. Maintain site, landscaping and vegetation.
2. Sweep and pick up litter on pavements and grounds.
3. Deliveries shall be monitored by owners or representative to ensure that if any spillage occurs, it shall be contained and cleaned up immediately.
4. Maintain pavement and curbing in good repair.

C. Requirements for routine inspections and maintenance of stormwater BMPs

1. **Plans:** The storm water Operation and Maintenance Plan shall consist of all Plans, documents and all local state and federal approvals as required for the subject property.
2. **Record Keeping:**
 - a. Maintain a log of all operation and maintenance activities for at least three years following construction, including inspections, repairs, replacement and disposal (for disposal, the log shall indicate the type of material and the disposal location);
3. **Descriptions and Designs:** The Best Management Practices (BMP) incorporated into the design include the following:
 - a. Deep sump catch basins with hoods installed to promote TSS Removal of solids and control floatable pollutants. This BMP has a design rate of 25% TSS Removal.
 - b. Hydrodynamic Separator - installed to promote TSS Removal of solids. This BMP has a design rate of 65% TSS Removal.
 - c. Infiltration Basin –has a design rate of 80% TSS Removal. Refer to TSS Removal Worksheet included in the Attachments.
 - d. Spill Containment Kit to contain and clean-up spills that could occur on site.
4. **BMP Maintenance:** After construction it is the responsibility of the owner to perform maintenance. The cleaning of the components of the stormwater management system shall generally be as follows:
 - a. **Pavement:** The owner shall keep the pavement swept with a mechanical sweeper or hand swept semi-annually at a minimum.
 - b. **Catch Basins:** Shall be cleaned by excavating, pumping or vacuuming. The sediment shall be disposed of off-site by the Owner. Inspect quarterly, remove silt when ¼ full.
 - c. **Hydrodynamic Separator** shall be cleaned by pumping. The sediment shall be disposed of off-site by the Owner. Inspect quarterly, remove silt when ¼ full.
 - d. **StormTech Chambers:** Inspect for proper function after every major storm event during the first 3 months of operation, inspect/remove debris twice per year afterward.
5. **Access Provisions:** All of the components of the storm water system will be accessible by the Owner

D. Spill prevention and response plans

1. Train employees and subcontractors in prevention and clean up procedures.
2. All materials stored on site will be stored in their appropriate containers under a roof or in the approved underground storage tanks.
3. Follow manufacturer's recommendation for disposal of used containers.
4. On site equipment, fueling and maintenance measures:
 - a. Inspect on-site vehicles and equipment daily for leaks.
 - b. Conduct all vehicle and equipment maintenance off Site and refueling in one location, away from storm drains and wetlands.
5. Clean up spills.
 - a. Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry clean-up methods (sawdust, cat litter and/or rags and absorbent pads).
 - b. Sweep up dry materials immediately. Never wash them away or bury them.
 - c. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
 - d. Report significant spills to the Fire Department, Conservation Commission and Board of Health.

E. Provisions for maintenance of lawns, gardens, and other landscaped areas

Dispose of clippings outside of the 100-foot buffer zone to the adjacent wetland and away from storm drainage and use 0% phosphate fertilizer.

F. Requirements for storage and use of herbicides, and pesticides

The application of herbicides or pesticides will be done by professional certified contractor.

G. Provisions for solid waste management

1. Waste Management Plan

- a. Recycle materials whenever possible (paper, plaster cardboard, metal cans). Separate containers for material are recommended.
- b. Do not bury waste and debris on site.
- c. Certified haulers will be hired to remove the dumpster container waste as needed. Recycling products will also be removed off site weekly.

H. Snow disposal and plowing plans

Snow storage is adequate around the site for large storm events, see site plan

I. Winter Road Salt and/or Sand Use and Storage restrictions

No sand, salt, or chemicals for de-icing will be stored outside.

J. Pavement sweeping schedules

Sweeping, the act of cleaning pavement can be done by mechanical sweepers, vacuum sweeper or hand sweeper. The quantity of sand is a direct correlation with the treatment of ice and snow and the types of chemicals and spreaders that are being used on site to manage snow. If a liquid de-icer such as calcium chloride is used as a pretreatment to new events the amount of sand is minimized. Sweeping for this site should be done semi-annually at a minimum. Collecting the particulate before it enters the catch basins is cheaper and more environmentally friendly than in a catch basin mixing with oils and greases in the surface water runoff in catch basins.

K. Provisions for prevention of illicit discharges to the stormwater management system

The discharge into the stormwater system is not being violated, see attachment for illicit discharges compliance.

- L. Training the staff or personnel involved with implementing Long-Term Pollution Prevention Plan
The owner shall develop policies and procedures for containing the illicit spilling of oils, soda, beer, paper and litter. These wastes provide a degrading of the water quality. The placement of signs and trash barrels with lids around the site would contribute to a clean water quality site condition.
- M. List of Emergency contacts for implementing Long-Term Pollution Prevention Plan:

John Nenart
Route 85 Realty Corp.
P.O. Box 444
Mendon, MA 01756
Tel: 508-422-1050
johnn@imperialcars.com

Standard 10: All illicit discharges to the stormwater management system are prohibited.

Standard 10 prohibits illicit discharges to stormwater management systems. The stormwater management system is the system for conveying, treating, and infiltrating stormwater on site, including stormwater best management practices and any pipes intended to transport stormwater to the ground water, a surface water, or municipal separate storm sewer system. Illicit discharges to the stormwater management system are discharges that are not entirely comprised of stormwater. Notwithstanding the foregoing, an illicit discharge does not include discharges from the following activities or facilities: firefighting, water line flushing, landscape irrigation, uncontaminated ground water, potable water sources, foundation drains, air conditioning condensation, footing drains, individual resident car washing, flows from riparian habitats and wetlands, dechlorinated water from swimming pools, water used for street washing and water used to clean residential buildings without detergents.

Illicit Discharge Compliance Statement

It is the intent of the Owner, Route 85 Realty Corp., P.O. Box 444, Mendon, MA 01756 to prevent illicit discharges to the stormwater management system, including wastewater discharges and discharges of stormwater contaminated by contact with process wastes, raw materials, toxic pollutants, hazardous substances, oil, or grease. There will be no connection to the storm water system to inadvertently direct other types of liquids, chemicals or solids into the storm drainage system. The Owner will also promote a clean Green Environment by mitigating spills onto pavements; oils, soda, chemicals, pet waste, debris and litter.

Respectfully Acknowledged,

Stormwater Report
495 Transportation Terminal
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WATERSHED PLAN
Pre and Post Development Conditions

TOTAL WETLANDS FILLED=4,940 sq.ft.

1575 sq.ft.

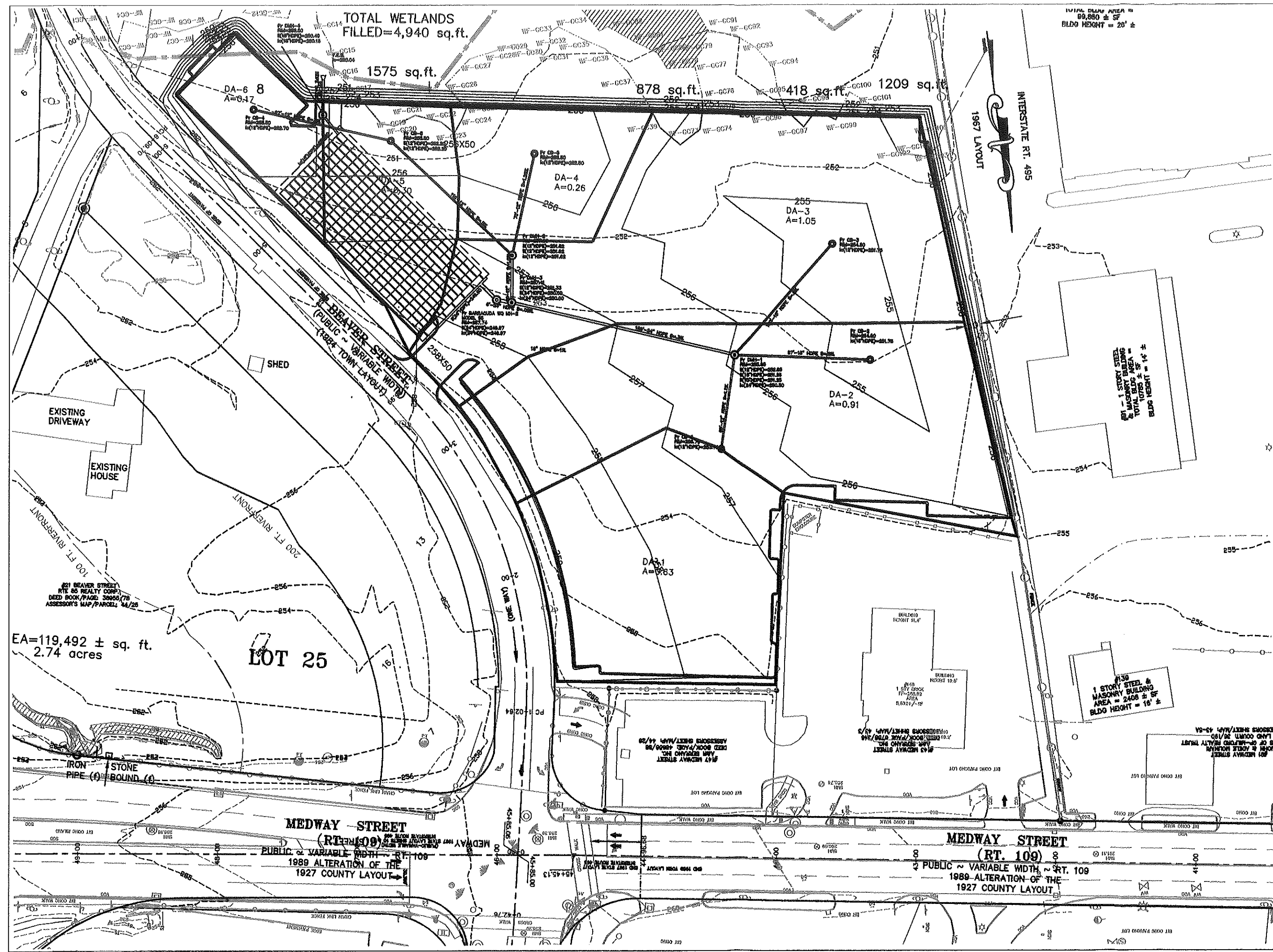
878 sq.ft.

418 sq.ft.

1209 sq.ft.

TOTAL BLDG AREA = 59,850 ± SF
BLDG HEIGHT = 20' ±

INTERSTATE RT. 495
1967 LAYOUT



EA=119,492 ± sq. ft.
2.74 acres

LOT 25

MEDWAY STREET
(RT. 109)

PUBLIC ~ VARIABLE WIDTH ~ RT. 109
1989 ALTERATION OF THE
1927 COUNTY LAYOUT

MEDWAY STREET
(RT. 109)

PUBLIC ~ VARIABLE WIDTH ~ RT. 109
1989 ALTERATION OF THE
1927 COUNTY LAYOUT

RATIONAL METHOD
DRAINAGE AREAS

MILFORD, MA

SCALE 1" = 30'
DATE: MARCH 26, 2016

Guerriere & Halnon, Inc.
Engineering & Land Surveying
333 WEST STREET, MILFORD, MASS. 01757
(508) 473-6630 FAX (508) 473-8243
gondengineering.com







Stormwater Report
495 Transportation Terminal
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USDA WEB SOIL SURVEY

Soil Map—Worcester County, Massachusetts, Southern Part



MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Area of Interest (AOI)	 Stony Spot
Soils	 Very Stony Spot
 Soil Map Unit Polygons	 Wet Spot
 Soil Map Unit Lines	 Other
 Soil Map Unit Points	 Special Line Features
Special Point Features	Water Features
 Blowout	 Streams and Canals
 Borrow Pit	Transportation
 Clay Spot	 Rails
 Closed Depression	 Interstate Highways
 Gravel Pit	 US Routes
 Gravelly Spot	 Major Roads
 Landfill	 Local Roads
 Lava Flow	Background
 Marsh or swamp	 Aerial Photography
 Mine or Quarry	
 Miscellaneous Water	
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Worcester County, Massachusetts, Southern Part

Survey Area Data: Version 12, Sep 12, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 28, 2019—Aug 15, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3A	Seabrook and Walpole soils, 0 to 3 percent slopes	0.7	9.9%
254B	Merrimac fine sandy loam, 3 to 8 percent slopes	0.5	6.8%
260B	Sudbury fine sandy loam, 3 to 8 percent slopes	6.0	78.5%
625C	Hinckley-Urban land complex, 0 to 15 percent slopes	0.4	4.8%
Totals for Area of Interest		7.6	100.0%

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DRAWDOWN CALCULATIONS (100-YR)

TRANSPORTATION TERMINAL

Type III 24-hr 100 YR EVENT Rainfall=6.80"

Prepared by {enter your company name here}

Printed 12/26/2019

HydroCAD® 10.00-16 s/n 01433 © 2015 HydroCAD Software Solutions LLC

Hydrograph for Pond 3P: (new Pond)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
5.00	0.28	4	249.40	0.24	0.24	0.00
7.50	0.49	1,124	249.68	0.24	0.24	0.00
10.00	1.07	5,691	250.35	0.24	0.24	0.00
12.50	4.56	22,020	253.05	8.65	0.24	8.41
15.00	0.88	9,459	250.83	1.07	0.24	0.83
17.50	0.43	8,085	250.65	0.54	0.24	0.30
20.00	0.30	7,326	250.56	0.36	0.24	0.12
22.50	0.23	6,857	250.50	0.29	0.24	0.05
25.00	0.00	5,744	250.36	0.24	0.24	0.00
27.50	0.00	3,585	250.09	0.24	0.24	0.00
30.00	0.00	1,427	249.75	0.24	0.24	0.00
32.50	0.00	0	249.40	0.00	0.00	0.00
35.00	0.00	0	249.40	0.00	0.00	0.00
37.50	0.00	0	249.40	0.00	0.00	0.00
40.00	0.00	0	249.40	0.00	0.00	0.00
42.50	0.00	0	249.40	0.00	0.00	0.00
45.00	0.00	0	249.40	0.00	0.00	0.00
47.50	0.00	0	249.40	0.00	0.00	0.00
50.00	0.00	0	249.40	0.00	0.00	0.00
52.50	0.00	0	249.40	0.00	0.00	0.00
55.00	0.00	0	249.40	0.00	0.00	0.00
57.50	0.00	0	249.40	0.00	0.00	0.00
60.00	0.00	0	249.40	0.00	0.00	0.00
62.50	0.00	0	249.40	0.00	0.00	0.00
65.00	0.00	0	249.40	0.00	0.00	0.00
67.50	0.00	0	249.40	0.00	0.00	0.00
70.00	0.00	0	249.40	0.00	0.00	0.00

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TSS REMOVAL CALCULATIONS

INSTRUCTIONS:

1. Sheet is nonautomated. Print sheet and complete using hand calculations. Column A and B: See MassDEP Structural BMP Table
2. The calculations must be completed using the Column Headings specified in Chart and Not the Excel Column Headings
3. To complete Chart Column D, multiple Column B value within Row x Column C value within Row
4. To complete Chart Column E value, subtract Column D value within Row from Column C within Row
5. Total TSS Removal = Sum All Values in Column D

Location:

A	B	C	D	E
BMP ¹	TSS Removal Rate ¹	Starting TSS Load*	Amount Removed (B*C)	Remaining Load (C-D)
Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
8' Diameter Barracuda	0.50	0.75	0.375	0.375
StormTech Chambers Infiltration	0.80	0.375	0.30	0.075

Total TSS Removal =

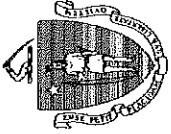
Separate Form Needs to be Completed for Each Outlet or BMP Train

Project:
 Prepared By:
 Date:

*Equals remaining load from previous BMP (E) which enters the BMP

Stormwater Report
495 Transportation Terminal
Milford, MA

SOIL LOGS



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

Owner Name _____

Street Address _____ Map/Lot # _____

City _____ State _____ Zip Code _____

B. Site Information

1. (Check one) New Construction Upgrade Repair

2. Soil Survey Available? Yes No If yes: _____

NRCS Source _____ 260B Soil Map Unit

SUDBURY FINE SANDY LOAM

Soil Name _____ Soil Limitations _____

Friable coarse-loamy eolian deposits over loose sandy glaciofluvial deposits derived from granite

TERRACES DEPRESSIONS Landform

3. Surficial Geological Report Available? Yes No If yes: _____

Year Published/Source _____ Map Unit _____

Description of Geologic Map Unit: _____

4. Flood Rate Insurance Map Within a regulatory floodway? Yes No

5. Within a velocity zone? Yes No

6. Within a Mapped Wetland Area? Yes No

If yes, MassGIS Wetland Data Layer: _____

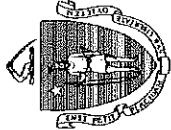
Wetland Type

7. Current Water Resource Conditions (USGS): _____

1/2020 Month/Day/ Year

Range: Above Normal Normal Below Normal

8. Other references reviewed: _____



Commonwealth of Massachusetts
City/Town of MILFORD

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: 1 Hole # 1/2/2020 Date 2 PM Time SUNNY Weather CRUSHED STONE Latitude _____ Longitude: 1
 1. Land Use PARKING AREA Vegetation NONE Surface Stones (e.g., cobbles, stones, boulders, etc.) _____ Slope (%) _____
 Description of Location: _____

2. Soil Parent Material: GRANITE AND GNEISS Landform _____ Position on Landscape (SU, SH, BS, FS, TS) _____
 3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ feet Other _____ feet
 4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock
 5. Groundwater Observed: Yes No If yes: 8' Depth Weeping from Pit 9' Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features		Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel			
0-60	FILL	GRAVEL								
60-84	C1	SL	7.5YR4/6	84				MASSIVE	FRIABLE	
84-108	C2	LS	10YR4/2					GRANULAR	LOOSE	COARSE

Additional Notes:



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: 2 Hole # 2 Date 1/2/2020 Time 2 PM Weather SUNNY Latitude _____ Longitude: _____
 1. Land Use: PARKING AREA NONE CRUSHED STONE Slope (%) 1
 (e.g., woodland, agricultural field, vacant lot, etc.) Vegetation _____ Surface Stones (e.g., cobbles, stones, boulders, etc.) _____

Description of Location: _____
 2. Soil Parent Material: GRANITE AND GNEISS Landform _____ Position on Landscape (SU, SH, BS, FS, TS) _____
 3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ feet Other _____ feet
 4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock
 5. Groundwater Observed: Yes No If Yes: 6.5' Depth Weeping from Pit 11' Depth Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistency (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-60	FILL										
60-132	C	LS	7.5YR4/6	66					GRANULAR	LOOSE	

Additional Notes:



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method Used:

- Depth observed standing water in observation hole
- Depth weeping from side of observation hole
- Depth to soil redoximorphic features (mottles)
- Depth to adjusted seasonal high groundwater (S_h) (USGS methodology)

Obs. Hole #2

_____ inches

_____ inches

66 inches

_____ inches

Obs. Hole #1

_____ inches

_____ inches

84 inches

_____ inches

Index Well Number _____ Reading Date _____

$$S_h = S_c - [S_r \times (OW_c - OW_{max}) / OW_r]$$

Obs. Hole/Well# _____ S_c _____ S_r _____ OW_c _____ OW_{max} _____ OW_r _____ S_h _____

2. Estimated Depth to High Groundwater: _____ inches

E. Depth of Pervious Material

1. Depth of Naturally Occurring Pervious Material

- a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? Yes No

- b. If yes, at what depth was it observed (exclude A and O Horizons)?

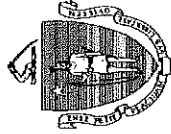
Upper boundary: _____ inches

Lower boundary: _____ inches

- c. If no, at what depth was impervious material observed?

Upper boundary: _____ inches

Lower boundary: _____ inches



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Signature of Soil Evaluator

DANIEL HAZEN 14348

Typed or Printed Name of Soil Evaluator / License #

Date

7/1/22/022

Expiration Date of License

Name of Approving Authority Witness

Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with Percolation Test Form 12.

Field Diagrams: Use this area for field diagrams:

Stormwater Report
495 Transportation Terminal
Milford, MA

SUPPLEMENT ATTACHMENTS

**495 TRANSPORTATION TERMINAL
MENDON, MA
CONSTRUCTION PHASE INSPECTION AND MAINTENANCE LOG**

Date _____

Prev. Insp. Date: _____

Inspector: _____

Title: _____

Weather: _____

Weather Since Last Inspection _____

Erosion Control - Inspect Weekly

Comments:
Corrective measures taken and date

On Site Pavement Sweeping - Inspect Weekly

Comments:
Corrective measures taken and date

Catch Basins - Inspect Weekly

Comments:
Corrective measures taken and date

Stormceptor - Inspect Weekly

Comments:
Corrective measures taken and date

Temporary Sediment Traps/Basins - Inspect Weekly

Comments:
Corrective measures taken and date

**495 TRANSPORTATION TERMINAL
MENDON, MA
CONSTRUCTION PHASE INSPECTION AND MAINTENANCE LOG**

Notify Conservation Commission RE Issues Effecting Resource Areas

Comments:
Corrective measures taken and date

Silt on Public Streets - Inspect Weekly

Comments:
Corrective measures taken and date

Stock Pile Materials - Ring with Haybales - Inspect Weekly

Comments:
Corrective measures taken and date

Any Fuel or Chemical Spill - Inspect Daily

Comments:
Corrective measures taken and date

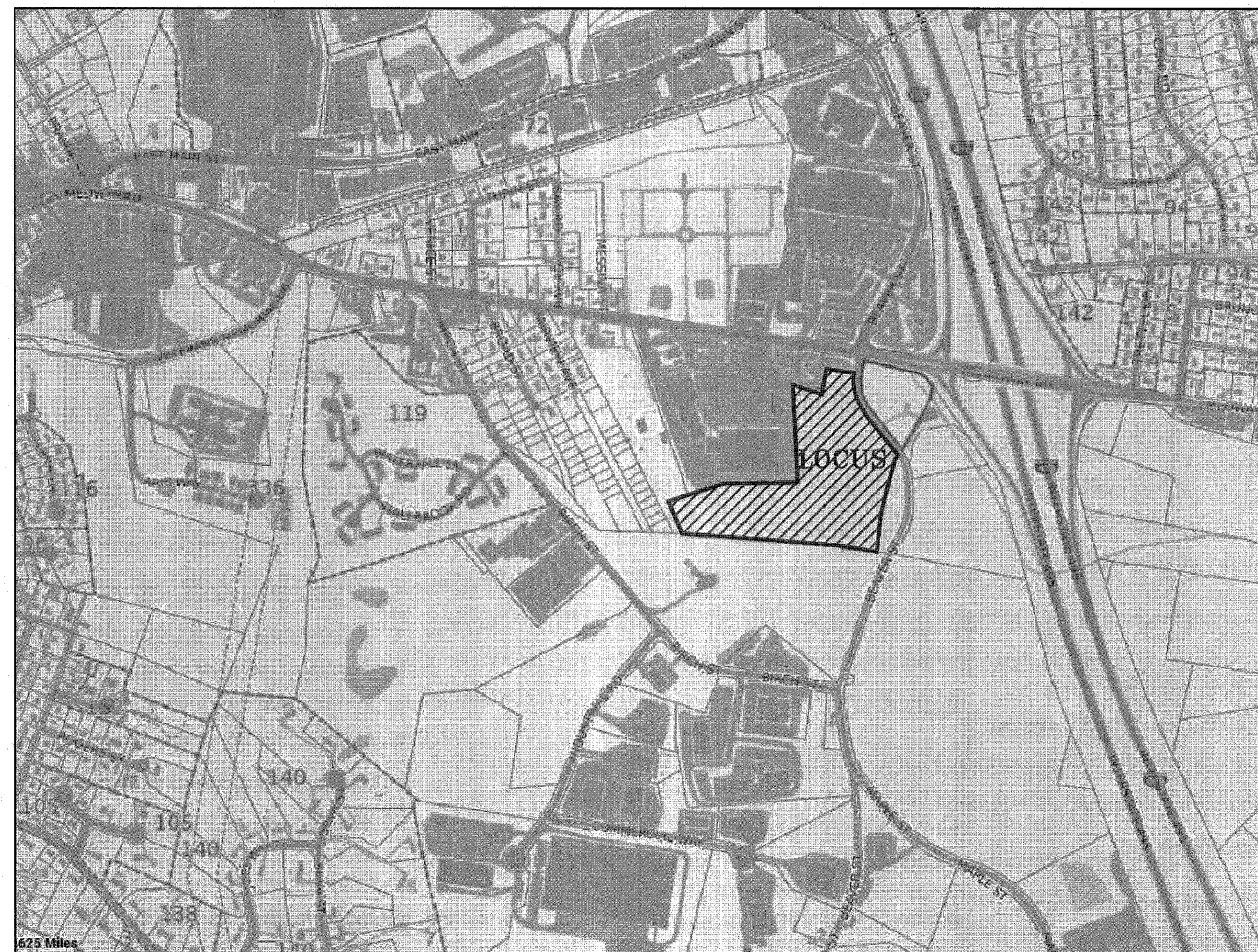
"495 TRANSPORTATION DEPOT I" TRANSPORTATION TERMINAL SITE PLAN 21 BEAVER STREET, MILFORD, MASSACHUSETTS

DATE: JANUARY 2, 2020
REV: FEBRUARY 25, 2020
JUNE 29, 2020
SEPTEMBER 8, 2020

APPROVED DATE: _____
PLANNING BOARD

SIGNATURE DATE: _____

G-8616-1



LOCUS MAP
500 FEET TO AN INCH

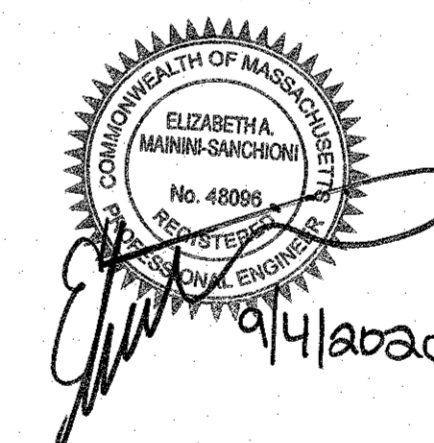
NOTE. STRIPING AND PARKING CONFIGURATION MAY BE ALTERED TO ACCOMMODATE LESSEE'S NEEDS TO ALLOW PARKING OF CARS, VANS, TUCKS TRAILERS AND TRACTOR TRAILERS.

ZONING TABLE

INTENSITY OF USE ZONE IB	EXISTING	PROPOSED
MIN. LOT REQUIREMENTS		
LOT AREA (S.F.)	80,000 S.F.	635,104± S.F.
LOT WIDTH (FT)	250 FT.	629.38 FT.
FRONTAGE (FT)	0 FT.	546.43 FT.
MIN. YARD REQUIREMENTS		
FRONT YARD SETBACK (FT)	50 FT.	0 FT.
SIDE YARD SETBACK (FT)	25 FT.	0 FT.
REAR YARD SETBACK (FT)	30 FT.	0 FT.
MAXIMUM BUILDING SIZE		
BUILDING COVERAGE (% OF LOT)	35%	0%
RATIO (FLOOR/LOT AREA)	.5	0
MINIMUM OPEN SPACE		
% OF LOT AREA	20%	100%
HEIGHT REQUIREMENTS		
MAX. HEIGHT (FT)	60 FT.	0 FT.
MAX. NO. OF STORIES	5	0
PARKING REQUIREMENTS		
TOTAL PARKING SPACES 9'X18'	9	0
HANDICAPPED PARKING 8'X18'	1	0
INTERIOR LANDSCAPING ISLANDS		
TOTAL NO. ISLANDS REQUIRED	24	0
150 S.F. PER ISLAND	3,600 S.F.	0
		4921 S.F.**

PARKING CALCULATIONS
REQUIRED PARKING - OFFICE
* SP/1000 = 2200/1000 X 4 = 9 SPACES
TOTAL SPACES REQUIRED = 9 SPACES

** PROVIDED ALONG THE EXTERIOR OF THE PAVING, EXCLUDING THE 15' BUFFER



INDEX

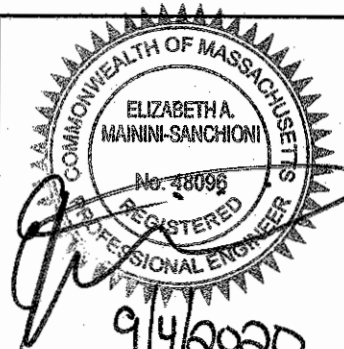
1. COVER
2. EXISTING CONDITIONS
3. SITE LAYOUT
4. GRADING & DRAINAGE PLAN
5. RESOURCE AREA PLAN
6. LANDSCAPING PLAN
7. DETAIL 1 SHEET
8. DETAIL 2 SHEET
9. PHOTOMETRIC PLAN

OWNER/APPLICANT:
RTE. 85 REALTY CORP.
P.O. BOX 444,
MENDON, MA 01756



**Guerriere
&
Halnon, Inc.**

Engineering & Land Surveying
333 WEST STREET, MILFORD, MASS. 01757
(508) 473-6630 FAX: (508) 473-8243
www.gandhengineering.com



DATE: 9/14/2020
APPROVED DATE: _____
PLANNING BOARD

SIGNATURE DATE: _____
BEING A MAJORITY
NOTES

- NOTES
- 1) THIS PLAN REFERS TO THE TOWN OF MILFORD ASSESSORS ATLAS SHEET 44 LOT 25B.
 - 2) SEE DEED BOOK 51954 PAGE 371 RECORDED AT THE WORCESTER REGISTRY OF DEEDS.
 - 3) SEE THE FOLLOWING PLANS RECORDED AT THE WORCESTER DISTRICT REGISTRY OF DEEDS--
PLAN BOOK 241 PLANS 107 & 108
PLAN BOOK 516 PLAN 115
PLAN BOOK 494 PLAN 71
 - 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
 - 5) HORIZONTAL DATUM - NAD 83.
VERTICAL DATUM - NAVD 88.

LEGEND

---	EXISTING CONTOUR
-D-	EX. DRAIN LINE
⊙	EX. DRAIN MANHOLE
⊗	EX. SEWER MANHOLE
⊠	EX. CATCHBASIN
⊕	EX. UTILITY POLE
⊙	EX. TREE
---	EX. SILT FENCE W/ STRAW WADDLES
-D-	EX. OVERHEAD WIRE
---	EX. VERTICAL GRANITE CURB
---	EX. TREE LINE
---	EX. FLOOD PLAIN
---	EX. BUILDINGS
---	EX. WETLANDS LINE
X WF-61	EX. WETLANDS FLAG
⊙	WETLANDS SYMBOL
-B-B-	100' WETLANDS BUFFER
---	EXIST. STONEWALL

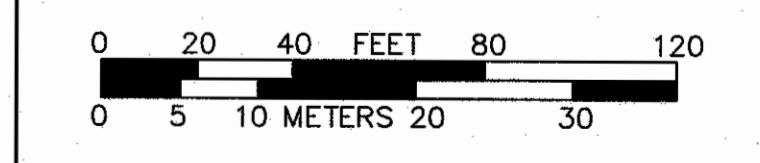
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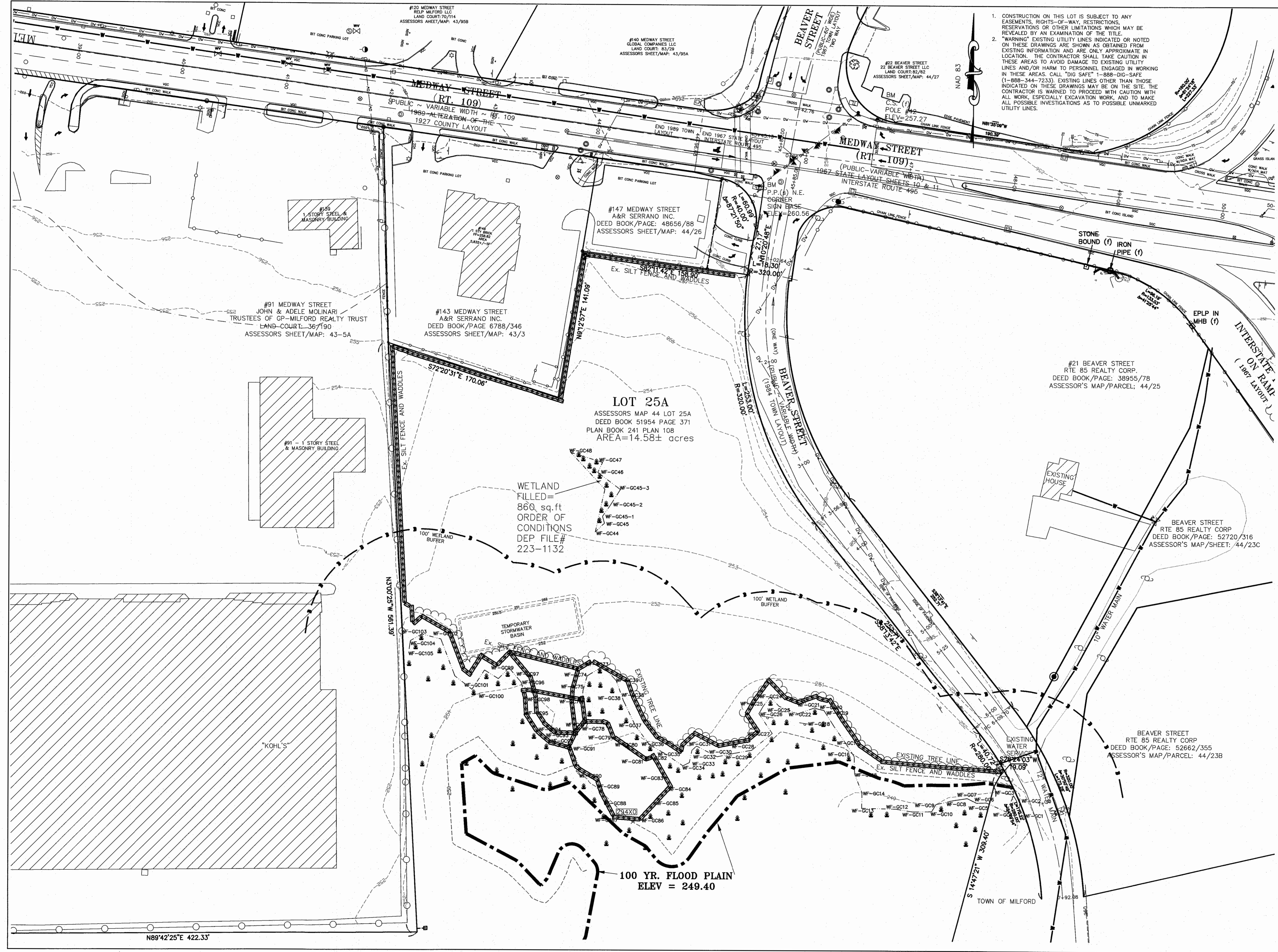
**495 TRANSPORTATION TERMINAL I
21 BEAVER STREET**

EXISTING CONDITIONS
PLAN OF LAND
IN
MILFORD, MA
SCALE: 40 FEET TO AN INCH
DATE: JANUARY 2, 2019

#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
2	6-29-20	SEWER & ABUTTERS CONCERNS	JMN
3	9-08-20	TOWN ENGINEERS REVIEW ITEMS	JMN



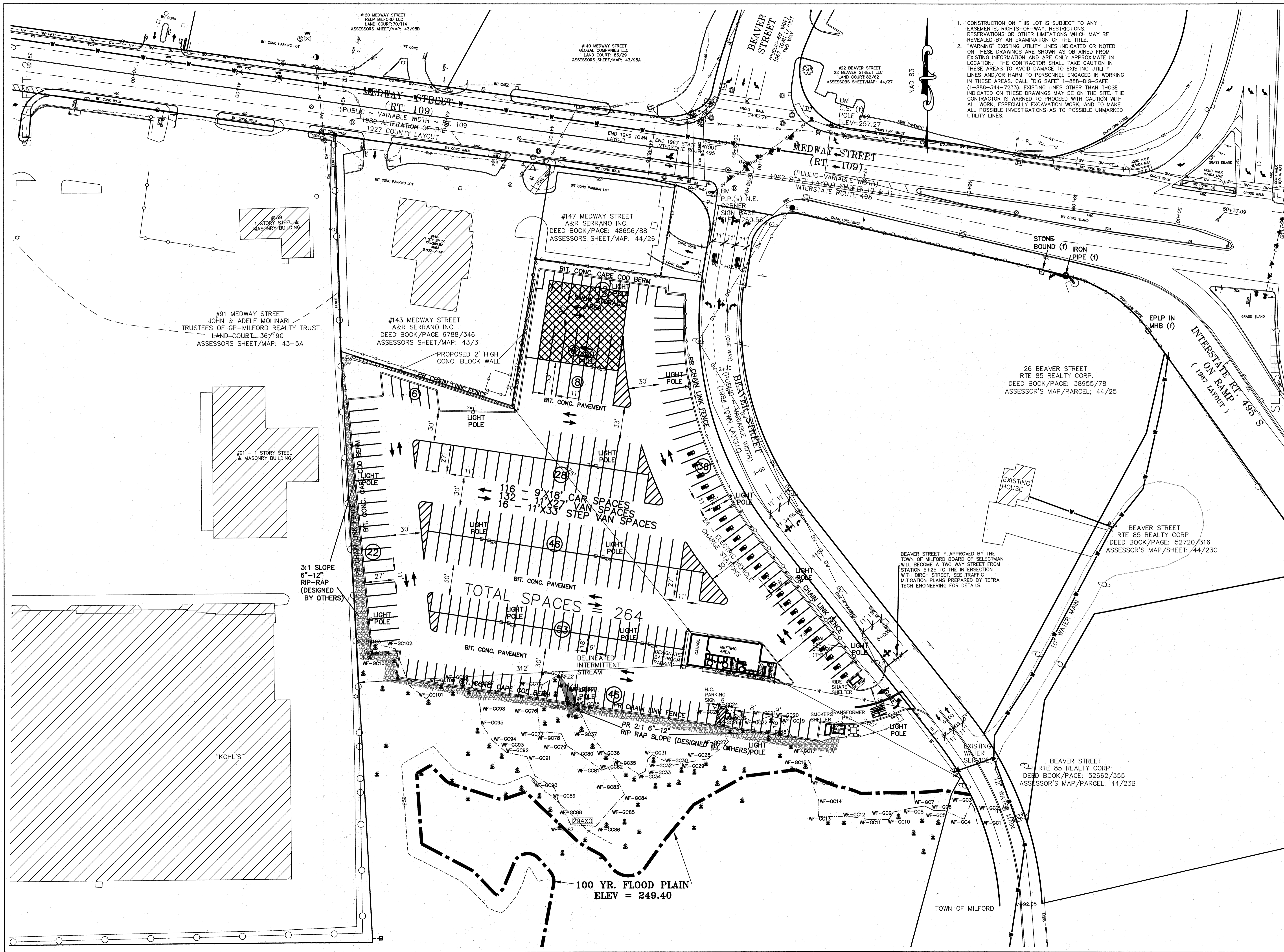
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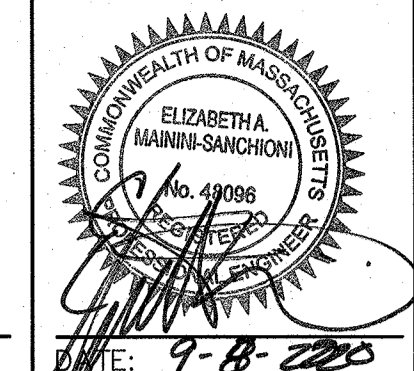
1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

2. "WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

G-8616-1



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DATE: 7-8-2020
 APPROVED DATE: PLANNING BOARD

SIGNATURE DATE: BEING A MAJORITY

- NOTES**
- 1) ALL PARKING SPACES TO BE 9'W X 18'L.
 - 2) ALL TRAVEL LINES TO BE 24' WIDE.
 - 3) STRIPING MAY BE ALTERED TO ALLOW FOR A MIXTURE OF CAR, VAN, TRAILER AND TRACTOR TRAILER PARKING.
 - 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
 - 5) HORIZONTAL DATUM - NAD 83. VERTICAL DATUM - NAVD 88.

LEGEND

	PR. EDGE OF PAVEMENT
	PR. MODIFIED CAPE COD BERM
	PR. CONTOUR
	PR. DRAIN LINE
	PR. DRAIN MANHOLE
	PR. CATCH BASIN
	PR. U.G. TELEPHONE
	PR. UTILITY/LIGHT POLE
	PR. STREET TREE
	PR. 4 HEAD LIGHT POLE
	PR. SINGLE HEAD LIGHT POLE
	PR. CHAINLINK FENCE
	PR. SIGN
	EXISTING BUILDINGS
	WETLANDS LINE
	WF-61 WETLANDS FLAG
	WETLANDS SYMBOL
	100' WETLANDS BUFFER
	EXIST. STONEWALL

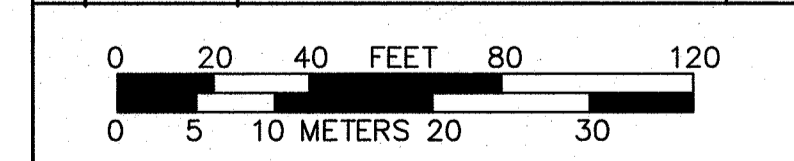
OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

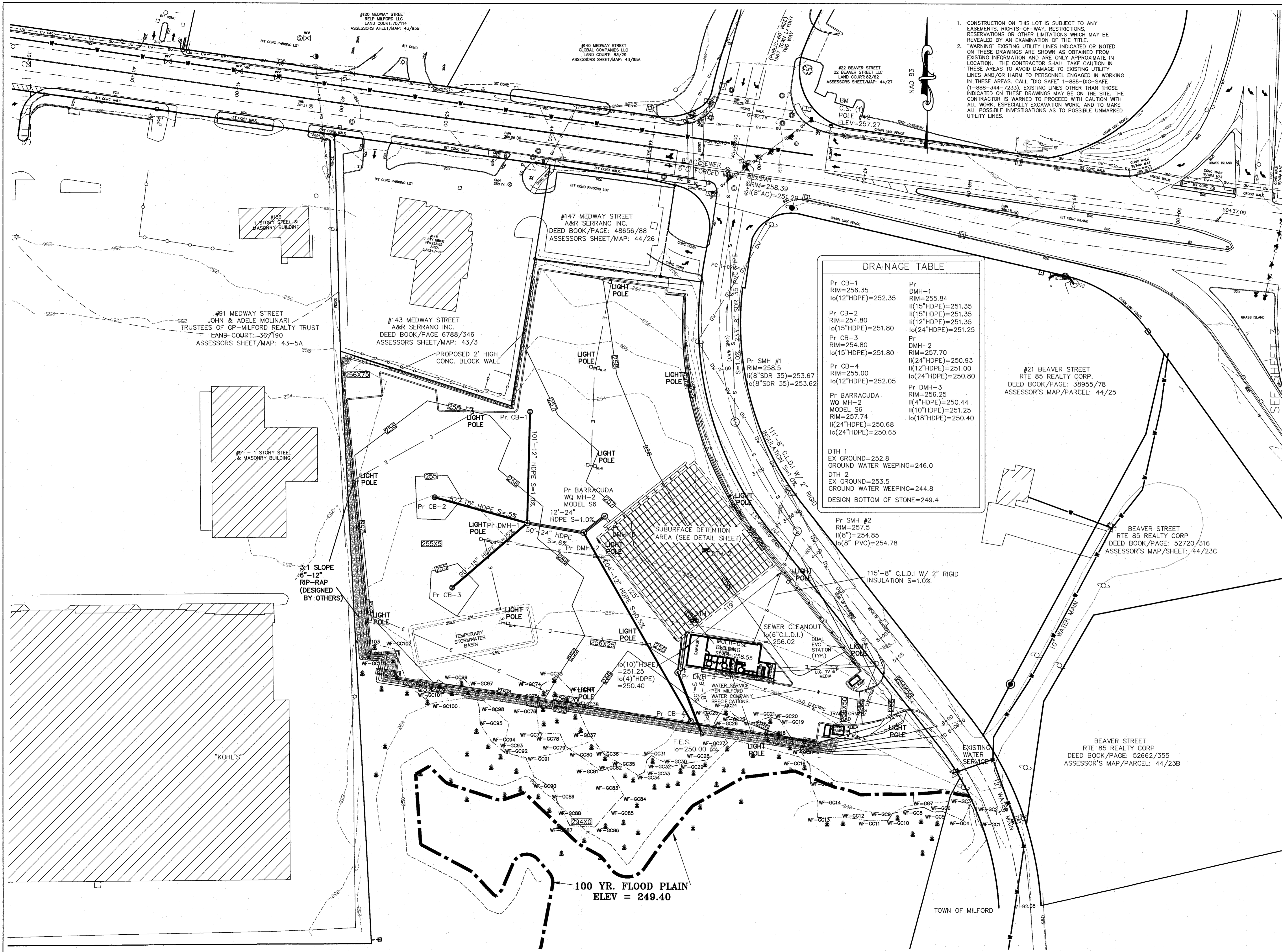
**495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET**

SITE LAYOUT
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: JANUARY 2, 2020

#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
2	6-29-20	SEWER & ABUTTERS CONCERNS	JMN
3	9-08-20	TOWN ENGINEERS REVIEW ITEMS	JMN



Guerriere & Halon, Inc.
 Engineering & Land Surveying
 333 WEST STREET, MILFORD, MASS. 01757
 (508) 473-6630 FAX: (508) 473-8243
 www.gandhengineering.com



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DRAINAGE TABLE	
Pr CB-1 RIM=256.35 lo(12"HDPE)=252.35	Pr DMH-1 RIM=255.84 li(15"HDPE)=251.35 li(12"HDPE)=251.35 lo(24"HDPE)=251.25
Pr CB-2 RIM=254.80 lo(15"HDPE)=251.80	Pr DMH-2 RIM=257.70 li(24"HDPE)=250.93 li(12"HDPE)=251.00 lo(24"HDPE)=250.80
Pr CB-3 RIM=254.80 lo(15"HDPE)=251.80	Pr DMH-3 RIM=256.25 li(4"HDPE)=250.44 li(10"HDPE)=251.25 lo(18"HDPE)=250.40
Pr CB-4 RIM=255.00 lo(12"HDPE)=252.05	
Pr BARRACUDA WQ MH-2 MODEL S6 RIM=257.74 li(24"HDPE)=250.68 lo(24"HDPE)=250.65	
DTH 1 EX GROUND=252.8 GROUND WATER WEeping=246.0	
DTH 2 EX GROUND=253.5 GROUND WATER WEeping=244.8 DESIGN BOTTOM OF STONE=249.4	
Pr SMH #1 RIM=258.5 li(8"SDR 35)=253.67 li(8"SDR 35)=253.62	
Pr SMH #2 RIM=257.5 li(8")=254.85 lo(8" PVC)=254.78	

ELIZABETH HANN-SANCHEZ
 No. 40086
 REGISTERED PROFESSIONAL ENGINEER
 9/4/2020

DATE: _____
 APPROVED DATE: _____
 PLANNING BOARD
 SIGNATURE DATE: _____
 BEING A MAJORITY

NOTES
 1) ALL TIE IN INVERTS TO BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION.
 2) WATER MAIN IN RTE 109 TO BE LOCATED IN THE FIELD PRIOR TO START OF CONSTRUCTION OF THE WATER SERVICE TO THE SITE.
 3) STRIPING MAY BE ALTERED TO ALLOW FOR A MIXTURE OF CAR, VAN, TRAILER AND TRACTOR TRAILER PARKING.
 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
 5) HORIZONTAL DATUM - NAD 83.
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LEGEND

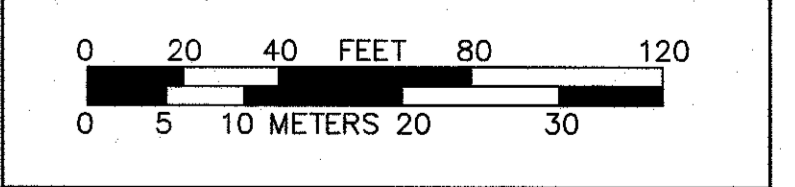
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	Pr. CONTOUR
	Pr. DRAIN LINE
	Pr. DRAIN MANHOLE
	Pr. CATCH BASIN
	Pr. SEWER MANHOLE
	Pr. SEWER LINE
	Pr. WATER LINE
	Pr. BLOCK WALL
	Pr. U.G. MEDIA
	Pr. U.G. ELECTRIC
	Pr. U.G. TELEPHONE
	Pr. STREET TREE
	Pr. 4 HEAD LIGHT POLE
	Pr. SINGLE HEAD LIGHT POLE
	Pr. CHAINLINK FENCE
	Pr. SIGN
	Pr. ELECTRIC VEHICLE CHARGE STATION
	Pr. EX DEEP TEST PIT

OWNER
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 P.O. BOX 444
 MENDON, MA 01756

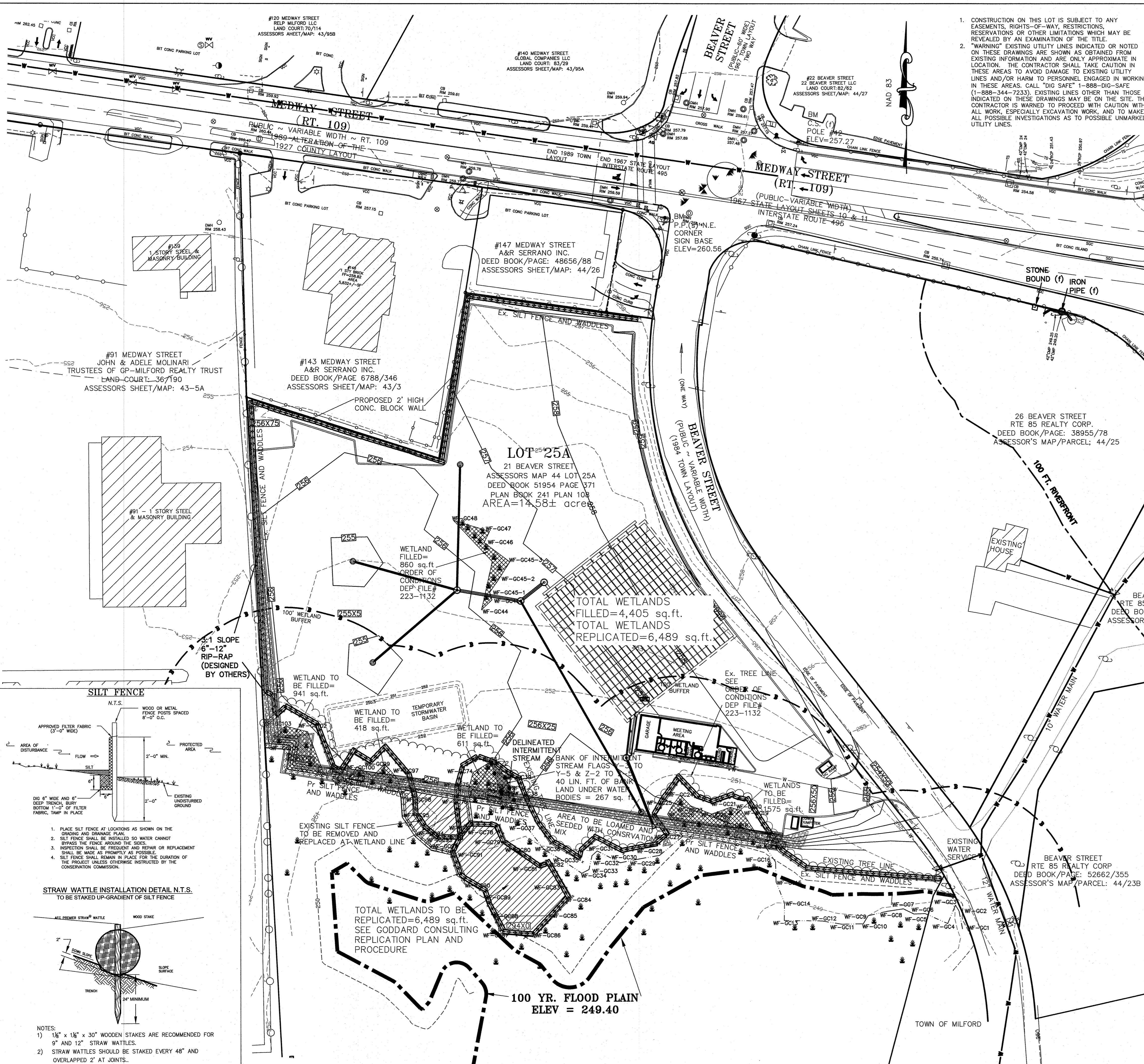
APPLICANT
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**495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET**
 GRADING & UTILITY
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: JANUARY 2, 2020

#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
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BWV AND BANK INSTALLATION PROCEDURES

SUPERVISION: ALL WORK WITHIN THE REPLICATION AREA SHALL BE SUPERVISED BY A QUALIFIED WETLAND SCIENTIST. THE SUPERVISOR SHALL SUBMIT MONITORING REPORTS TO THE CONSERVATION COMMISSION AS DESCRIBED BELOW. REPORTS SHALL CONTAIN DETAILS OF ALL WORK PERFORMED AND PHOTOGRAPHS OF COMPLETED CONDITIONS.

TIMING: THE PREPARATION/EXCAVATION OF THE REPLICATION AREA AND IMPACT AREA WILL START AFTER THE APPEAL PERIOD FOR THE ORDER OF CONDITIONS HAS LAPSED. THE PLANTING OF THE REPLICATION AREA SHALL BE ACCOMPLISHED DURING THE GROWING SEASON IN THE FALL OF 2017 (IF POSSIBLE) OR SPRING OF 2018.

STEP 1: EXCAVATION OF IMPACT AREA. AN EXCAVATOR SHALL REMOVE THE EXISTING SOILS WITHIN THE BWV IMPACT AREA. EXCAVATED SOILS WILL BE STORED OUTSIDE ALL JURISDICTIONAL AREAS AND UTILIZED IF NECESSARY WITHIN THE REPLICATION AREA (IF ADEQUATE HYDRIC AND ORGANIC SOILS ARE NOT EXPOSED WITHIN THE REPLICATION AREA DURING THE EXCAVATION PROCESS, THESE STORED SOILS WILL BE UTILIZED).

STEP 2: EROSION CONTROL BARRIERS. EROSION CONTROL BARRIERS IN THE FORM OF STAKED SILTATION FENCE AND MULCH SOCK (OR SIMILAR INVASIVE-FREE BARRIER) SHALL BE PLACED WITHIN THE REPLICATION AREA WITHIN FLAGS 78-91 TO PREVENT IMPACT TO THE ADJACENT WETLAND AREA. THESE ECB'S WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE AREA IS COMPLETELY STABILIZED.

STEP 3: PLANT REMOVAL. VEGETATION WITHIN THE REPLICATION AREA SHALL BE CLEARED AND REMOVED OUT OF JURISDICTIONAL AREAS.

STEP 4: EXCAVATION OF REPLICATION AREA. PRIOR TO ANY SOIL EXCAVATION, A STORAGE AREA FOR THE SOIL SHALL BE PREPARED; SOIL WILL NOT BE STORED IN BUFFER ZONE. AN EXCAVATOR SHALL REMOVE EXISTING SOILS TO THE ELEVATION OF THAT OF THE ADJACENT NON-IMPACTED WETLAND AREA ALONG FLAGS 78-91 AND TO A DEPTH AT WHICH REDOXIMORPHIC FEATURES BECOME VISIBLE AT THE SOIL SURFACE. A WETLAND SCIENTIST WILL BE ON SITE DURING THE EXCAVATION PROCESS.

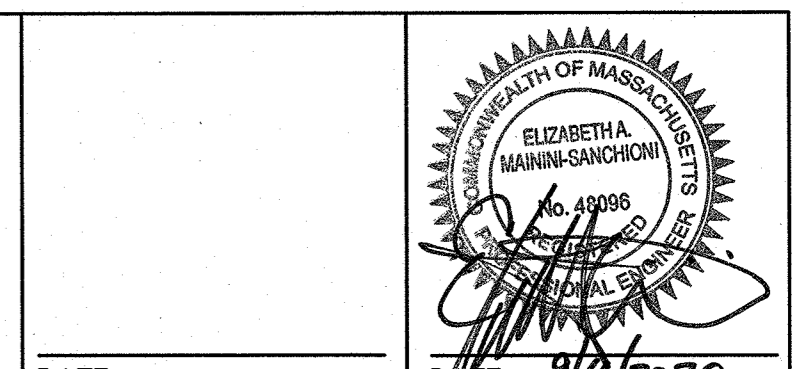
STEP 5: BANK CREATION. A CHANNEL FROM ONE END OF THE REPLICATION AREA TO THE OTHER SHALL BE CREATED AT A SIMILAR BANK SIZE AND WIDTH OF THE AREA WHICH WILL BE IMPACTED.

STEP 6: PLANTING. THE VEGETATION SELECTED FOR THE REPLICATION AREA INCLUDES SPECIES THAT ARE NATIVE TO THE SITE AND AREA ALSO LOCATED WITHIN THE ADJACENT BWV. PRECISE CITING OF PLANTS MAY BE DETERMINED BY THE WETLAND SCIENTIST IN THE FIELD PRIOR TO INSTALLATION. SHRUBS SHALL BE SPACED 8' ON CENTER AND TREES 15' ON CENTER. A WETLAND SEED MIX WILL BE SPREAD THROUGHOUT THE AREA.

A. SEASONAL MONITORING REPORTS SHALL BE PREPARED FOR THE REPLICATION AREA BY A QUALIFIED WETLAND SCIENTIST FOR A PERIOD OF 2 ADDITIONAL YEARS AFTER INSTALLATION. THIS MONITORING PROGRAM WILL CONSIST OF EARLY SUMMER AND EARLY FALL INSPECTIONS, AND WILL INCLUDE PHOTOGRAPHS AND DETAILS ABOUT THE VITALITY OF THE REPLICATION AREA. MONITORING REPORTS SHALL BE SUBMITTED TO THE COMMISSION BY DECEMBER 30TH OF EACH YEAR. MONITORING REPORTS SHALL DESCRIBE, USING NARRATIVE, PLANS AND COLOR PHOTOGRAPHS, THE PHYSICAL CHARACTERISTICS OF THE REPLICATION AREA WITH RESPECT TO STABILITY, SOIL CHARACTERISTICS, SURVIVAL OF VEGETATION AND PLANT MORTALITY, AERIAL EXTENT AND DISTRIBUTION, SPECIES DIVERSITY AND VERTICAL STRATIFICATION (I.E. HERB, SHRUB AND TREE LAYERS).

B. AT LEAST 75% OF THE SURFACE AREA OF THE REPLICATION AREA SHALL BE RE-ESTABLISHED WITH INDIGENOUS PLANT SPECIES WITHIN TWO GROWING SEASONS. IF THE REPLICATION AREA DOES NOT MEET THE 75% RE-VEGETATION REQUIREMENT BY THE END OF THE SECOND GROWING SEASON AFTER INSTALLATION, THE APPLICANT SHALL SUBMIT A REMEDIATION PLAN TO THE COMMISSION FOR APPROVAL THAT WILL ACHIEVE, UNDER THE SUPERVISION OF A WETLAND SPECIALIST, REPLICATION GOALS. THIS PLAN MUST INCLUDE AN ANALYSIS OF WHY THE AREAS HAVE NOT SUCCESSFULLY RE-VEGETATED AND HOW THE APPLICANT INTENDS TO RESOLVE THE PROBLEM.

STEP 7: AS-BUILT SURVEY. UPON MEETING THE CRITERIA FOR 75% COVER OF INDIGENOUS SPECIES AFTER TWO GROWING SEASONS, THE REPLICATION AREAS WILL BE SURVEYED FOR AS-BUILT CONDITIONS. THE AS-BUILT PLAN WILL BE SUBMITTED TO THE CONSERVATION COMMISSION ALONG WITH A REQUEST FOR A CERTIFICATE OF COMPLIANCE.



DATE: 9/4/2020
APPROVED DATE: PLANNING BOARD

SIGNATURE DATE: BEING A MAJORITY

- NOTES**
1. WETLANDS DELINEATED BY GODDARD CONSULTING IN AUGUST, 2016 AND LOCATED AND PLOTTED BY GUERRIERE & HALNON, INC.
 2. SEE ORDER OF CONDITIONS DEP FILE#223-1103, RECORDED IN BOOK 56256 PAGE 120 AT THE WORCESTER DISTRICT REGISTRY OF DEEDS AND ORDER OF CONDITIONS DEP FILE#223-1132, RECORDED IN BOOK 58081 PAGE 209 AT THE WORCESTER DISTRICT REGISTRY OF DEEDS.
 3. ALL EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH GROWING VEGETATION.
 5. A NATIVE SEED MIX IS TO BE USED TO RE-VEGETATE THE DISTURBED AREAS.

LEGEND

	EXISTING CONTOUR
	EX. SILT FENCE W/ STRAW WADDLES
	EX. TREE LINE
	EX. FLOOD LINE
	EX. WETLANDS LINE
	WF-61 WETLANDS FLAG
	WETLANDS SYMBOL
	100' WETLANDS BUFFER
	EXIST. STONEWALL
	Pr. CONTOUR
	Pr. RIP RAP
	Pr. FILLED WETLANDS
	Pr. WETLAND REPLICATION
	Pr. FILLED FLOOD PLAIN
	Pr. REPLICATED FLOOD PLAIN

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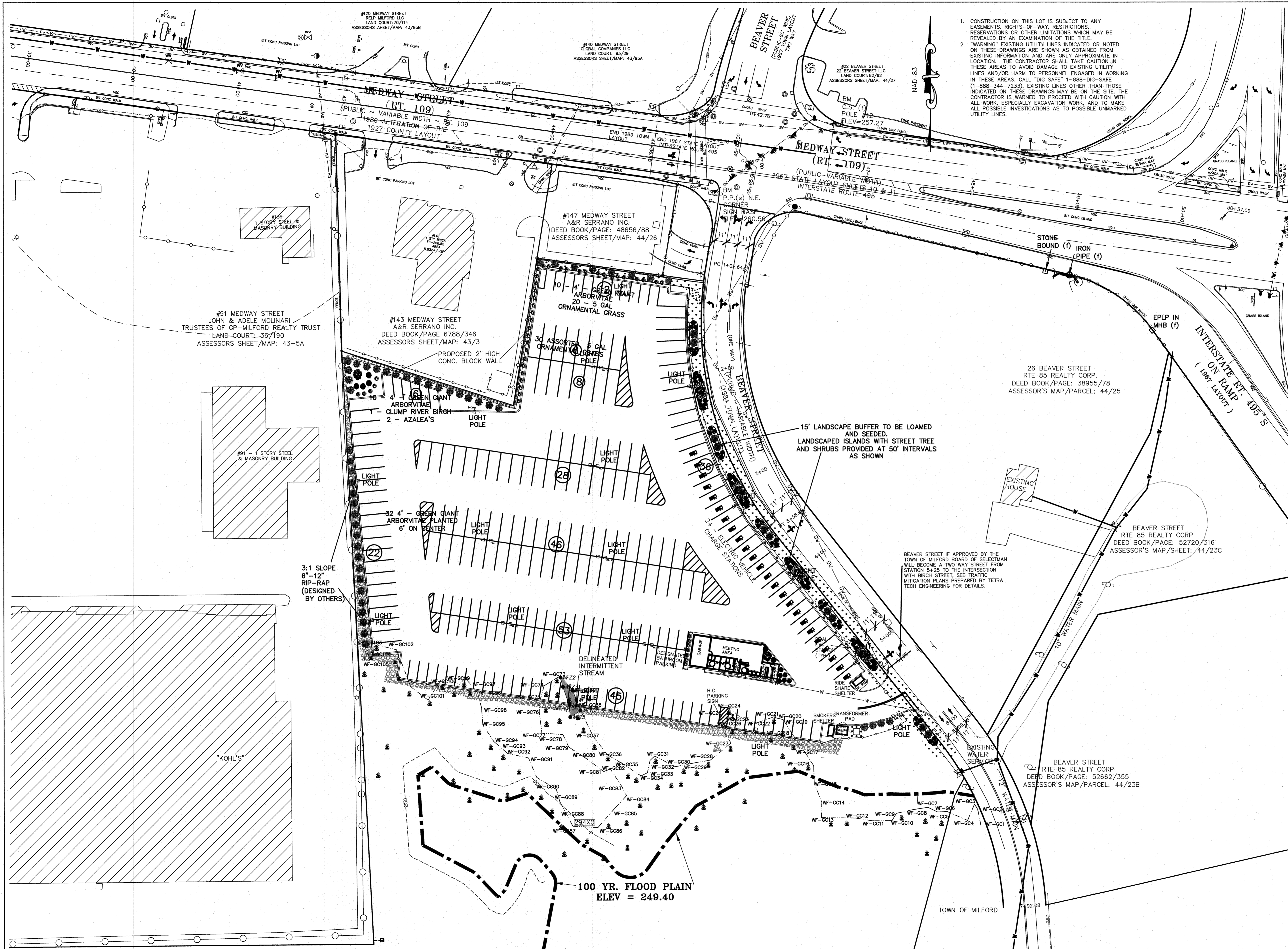
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21 BEAVER STREET

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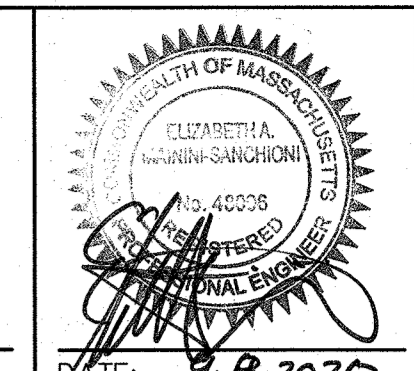
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SHEET 5 OF 9 G-8616-1



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DATE: 9-8-2020
 APPROVED DATE: PLANNING BOARD

SIGNATURE DATE: BEING A MAJORITY

- NOTES**
- 1) ALL PARKING SPACES TO BE 9' W X 18' L.
 - 2) ALL TRAVEL LINES TO BE 24' WIDE.
 - 3) STRIPING MAY BE ALTERED TO ALLOW FOR A MIXTURE OF CAR, VAN, TRAILER AND TRACTOR TRAILER PARKING.
 - 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
 - 5) HORIZONTAL DATUM - NAD 83. VERTICAL DATUM - NAVD 88.

LEGEND

---	Pr. EDGE OF PAVEMENT
---	Pr. MODIFIED CAPE COD BERM
---	Pr. CONTOUR
---	Pr. DRAIN LINE
---	Pr. DRAIN MANHOLE
---	Pr. CATCH BASIN
---	Pr. U.G. TELEPHONE
---	Pr. UTILITY/LIGHT POLE
---	Pr. STREET TREE
---	Pr. 4 HEAD LIGHT POLE
---	Pr. SINGLE HEAD LIGHT POLE
---	Pr. CHAINLINK FENCE
---	Pr. SIGN
---	EXISTING BUILDINGS
---	WETLANDS LINE
WF-61	WETLANDS FLAG
---	WETLANDS SYMBOL
---	100' WETLANDS BUFFER
---	EXIST. STONEWALL

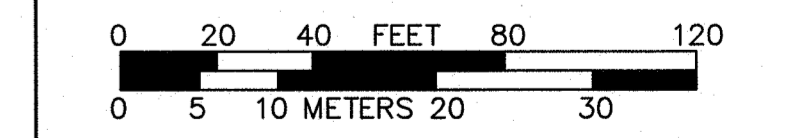
OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

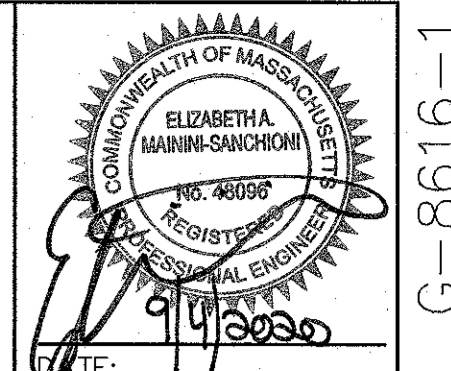
**495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET**

LANDSCAPE
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: JANUARY 2, 2020

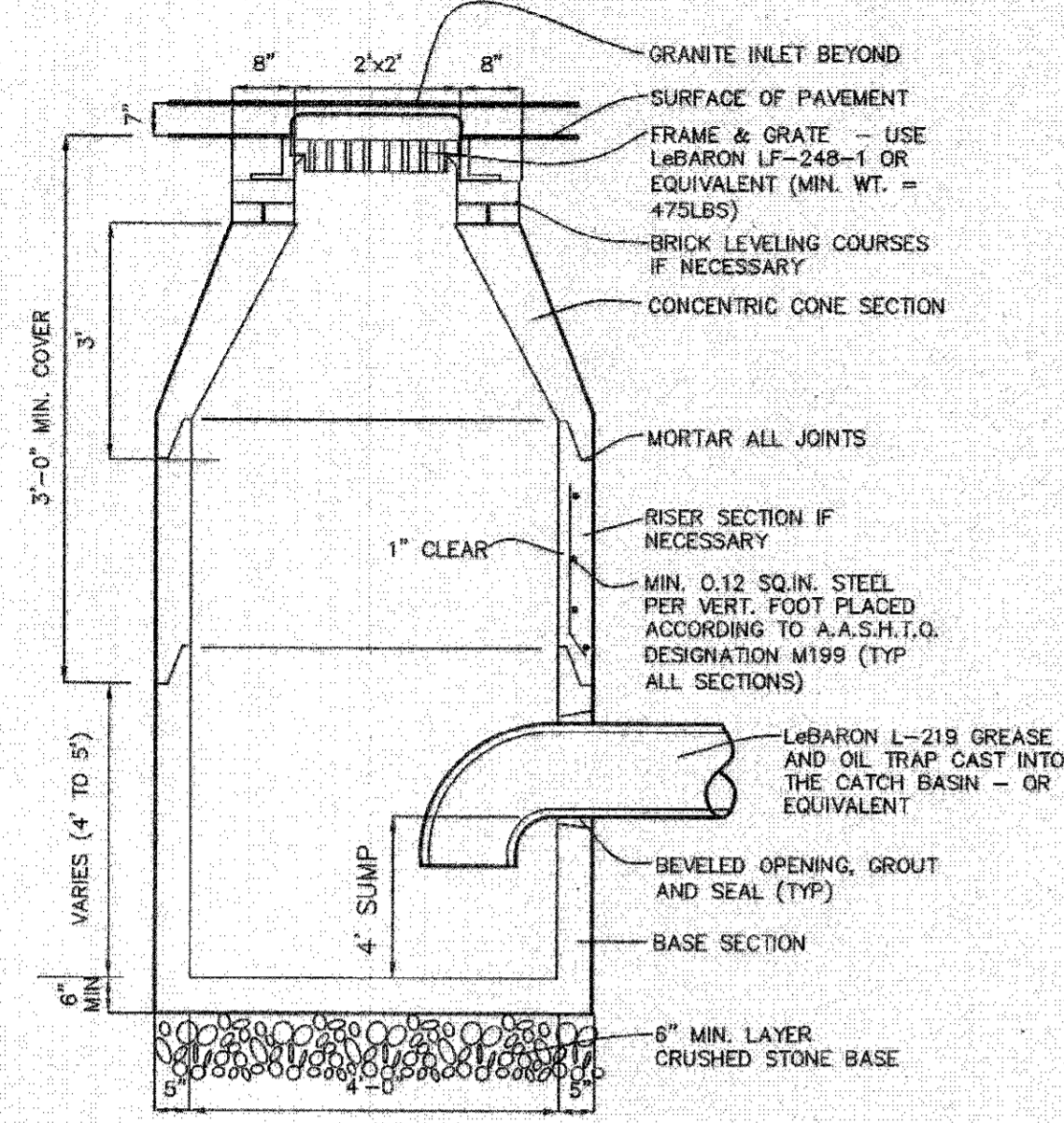
#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
2	6-29-20	SEWER AND ABUTTERS COMMENTS	JMN
3	9-08-20	TOWN ENGINEERS REVIEW ITEMS	JMN



Guerriere & Halon, Inc.
 Engineering & Land Surveying
 333 WEST STREET, MILFORD, MASS. 01757
 (508) 473-6630 FAX: (508) 473-8243
 www.gandhengineering.com

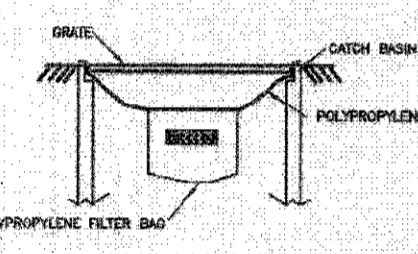


G-8616-1

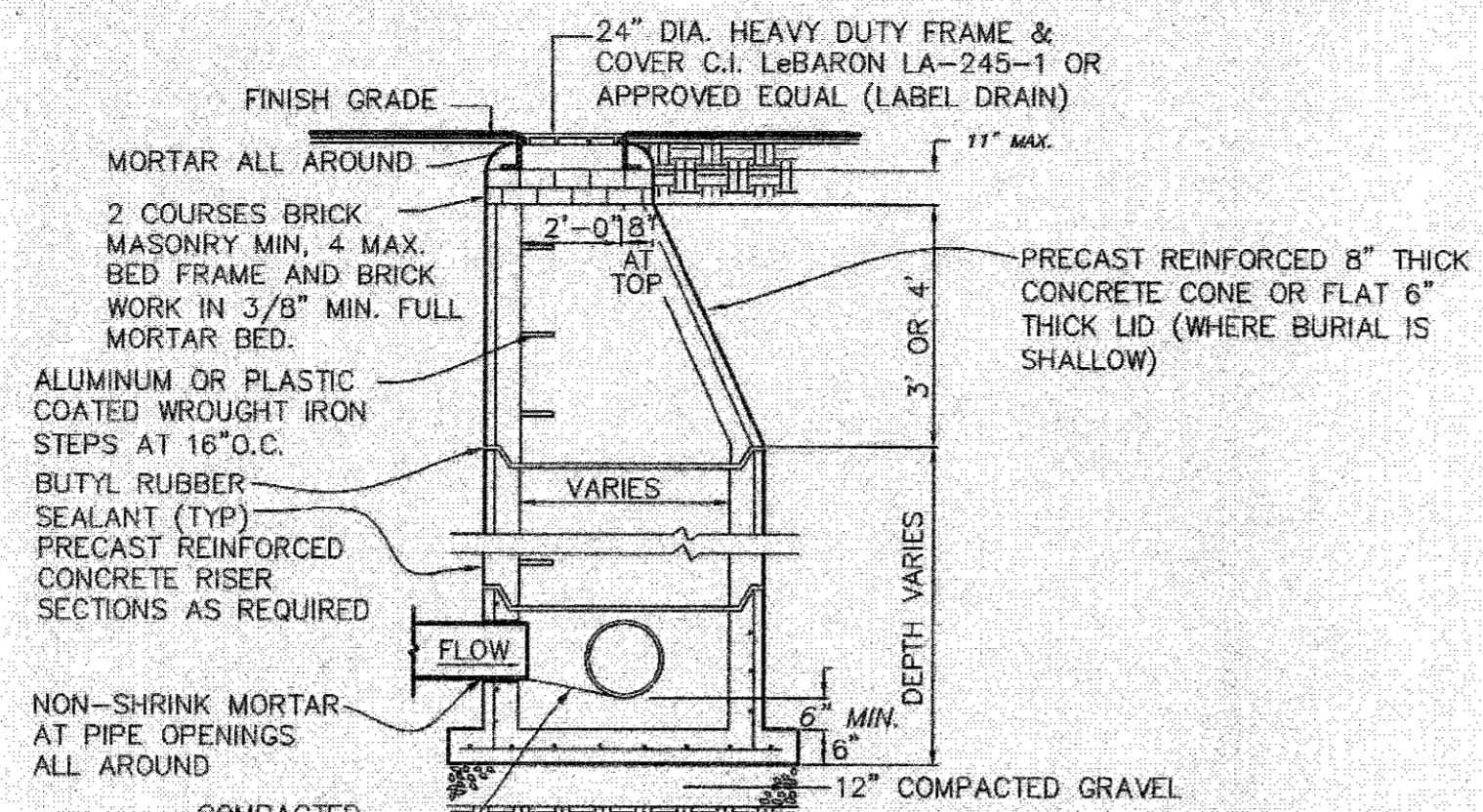


SECTION PRECAST CONCRETE CATCH BASIN
NOT TO SCALE

- NOTES:
1. PIPE OPENINGS TO BE PRECAST IN CATCH BASIN SECTIONS.
 2. SURFACE OF FRAME AND GRATE TO SLOPE DOWN 1" FROM FRONT TO BACK.
 3. FACE OF PIPE TO BE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.

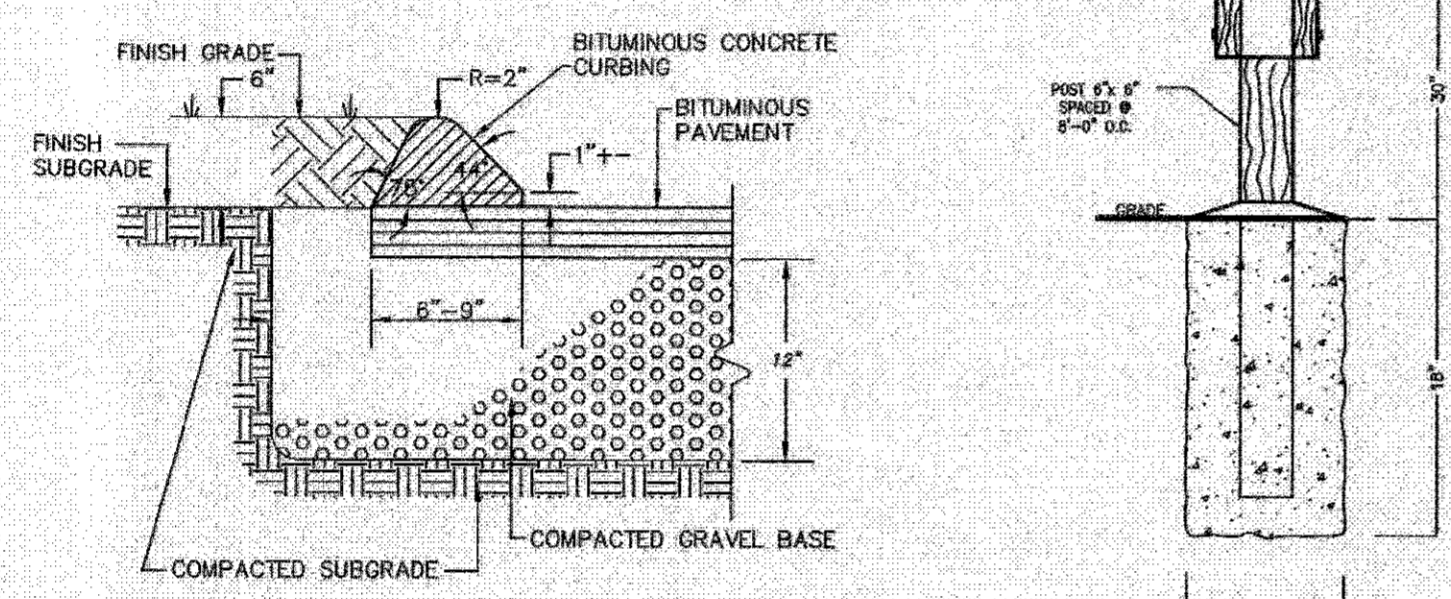


SILTATION BASKET TYPE II-S (SEDIMENT)
N.T.S.



TYP. PRECAST CONCRETE MANHOLE STORM DRAIN

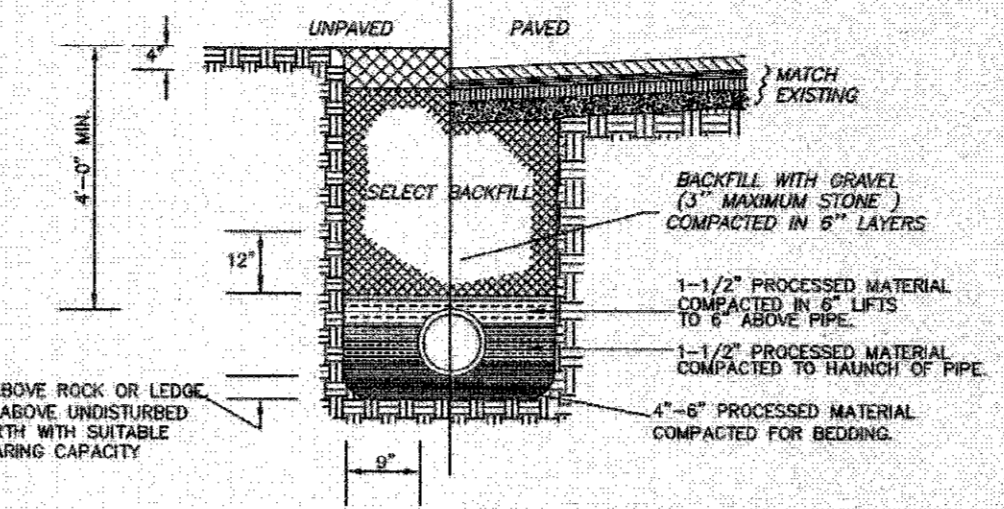
- N.T.S.
NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. C478.



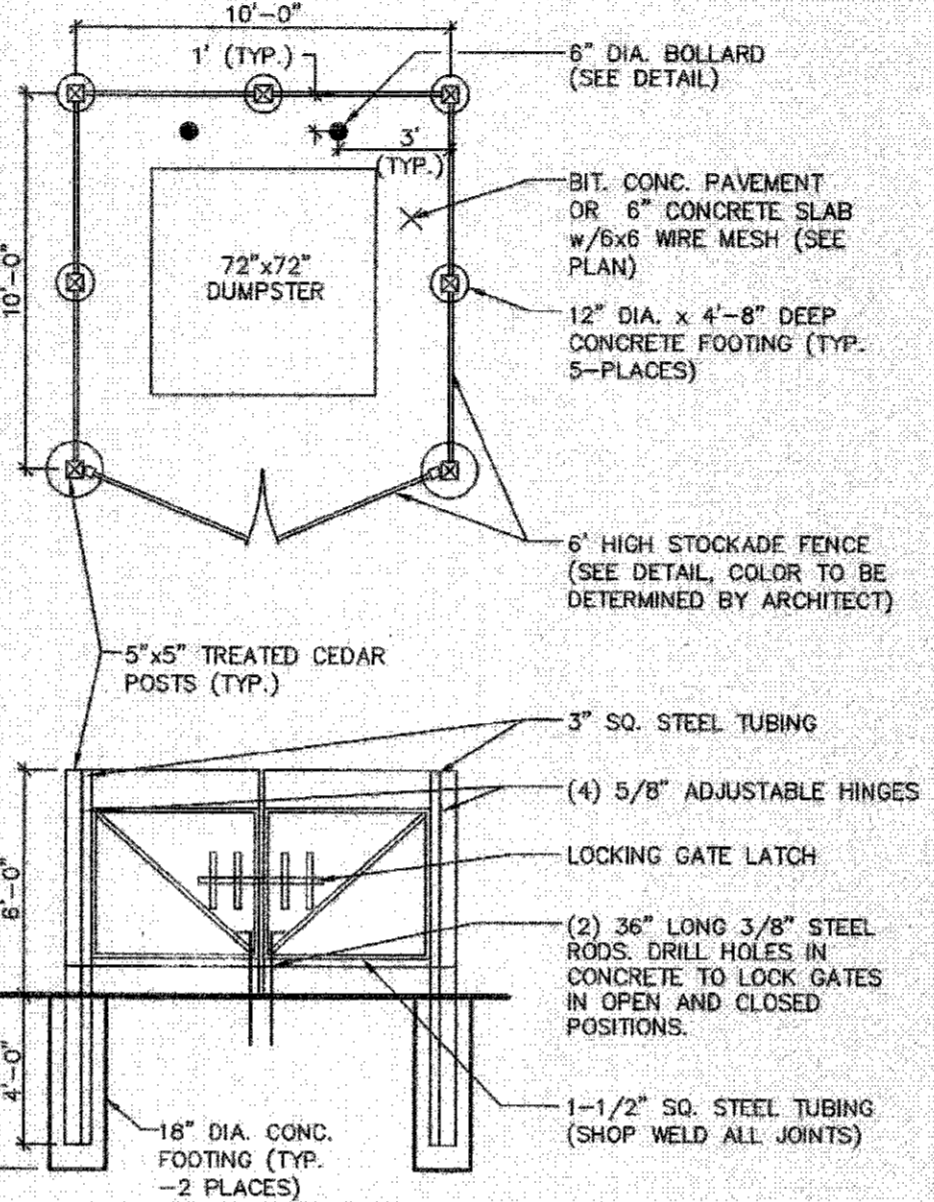
TYP. BITUMINOUS CONCRETE CURB DETAIL
N.T.S.

WOODEN GUARD RAIL
N.T.S.

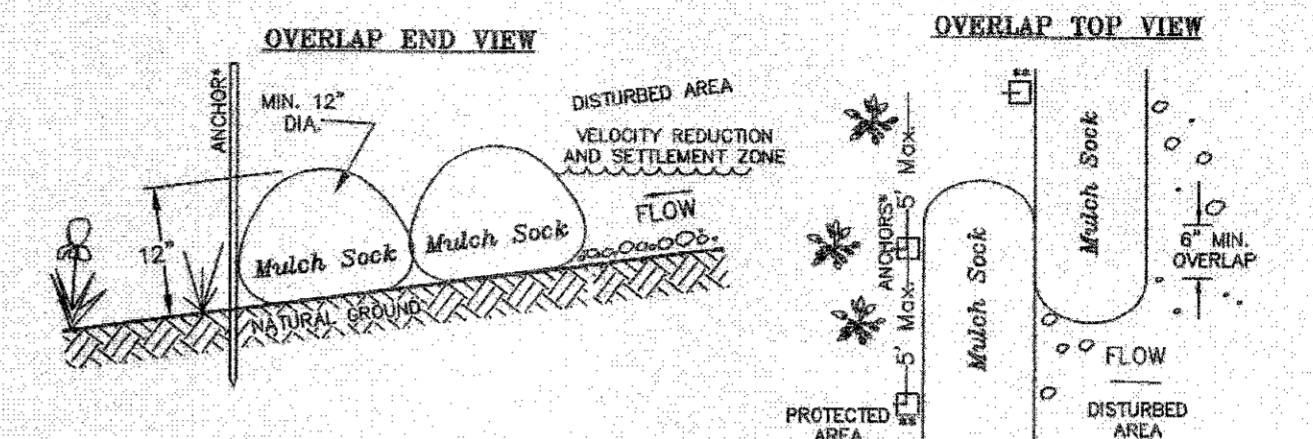
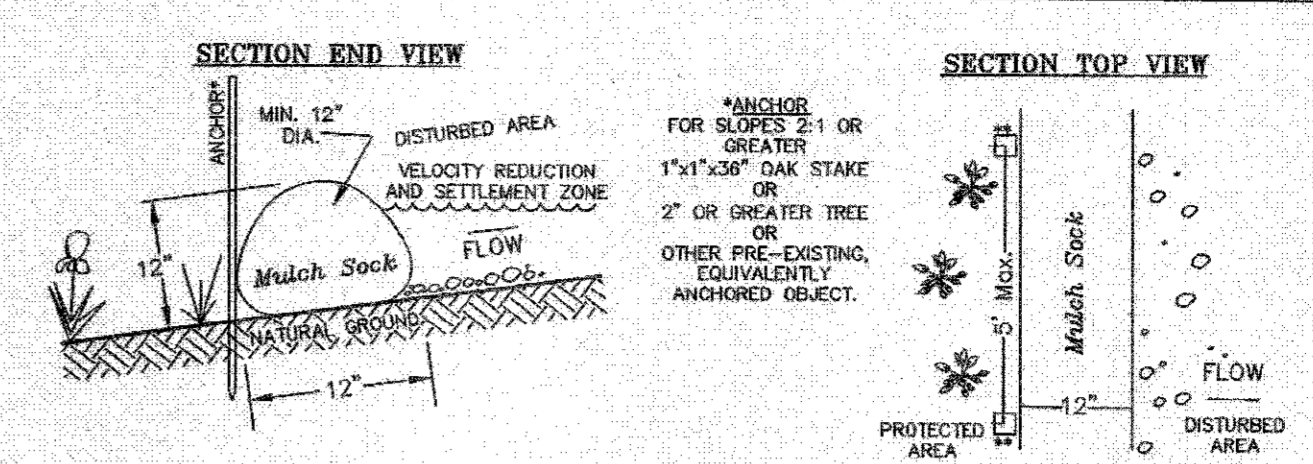
1. INSTALL PROCESSED MATERIAL COMPACTED AT SLOPE OF PIPE.
2. BACKFILL TO HAUNCH OF PIPE AND COMPACT.
3. BACKFILL 12" ABOVE PIPE AND COMPACT.



TYPICAL H.D.P.E. TRENCH SECTION
NOT TO SCALE



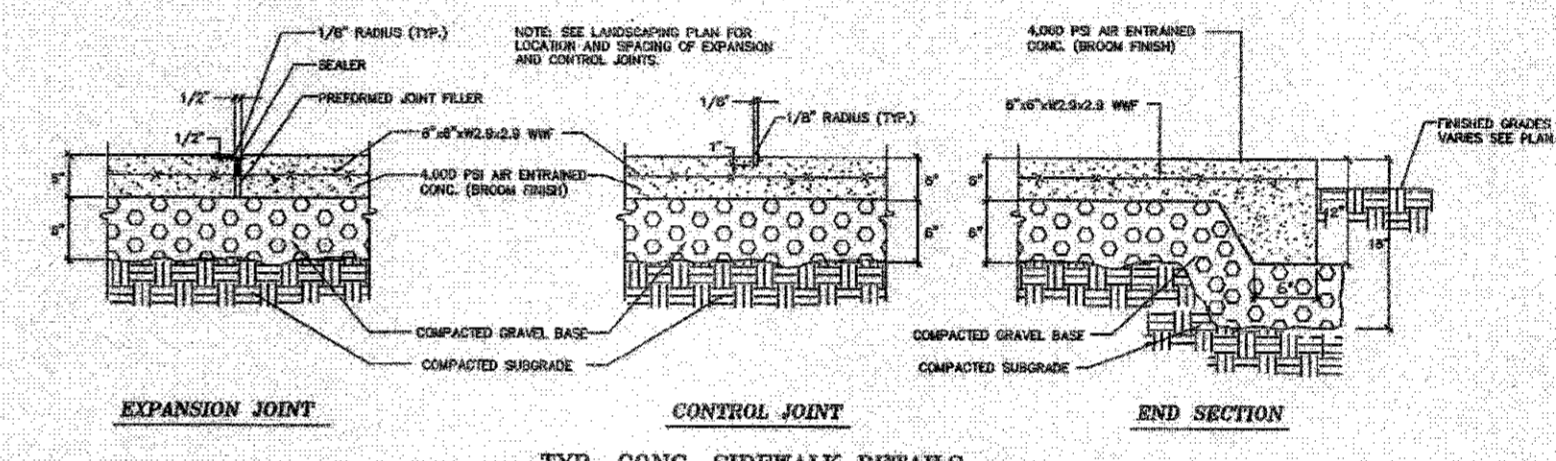
TRASH ENCLOSURE
SCALE: 1/4"=1'-0"



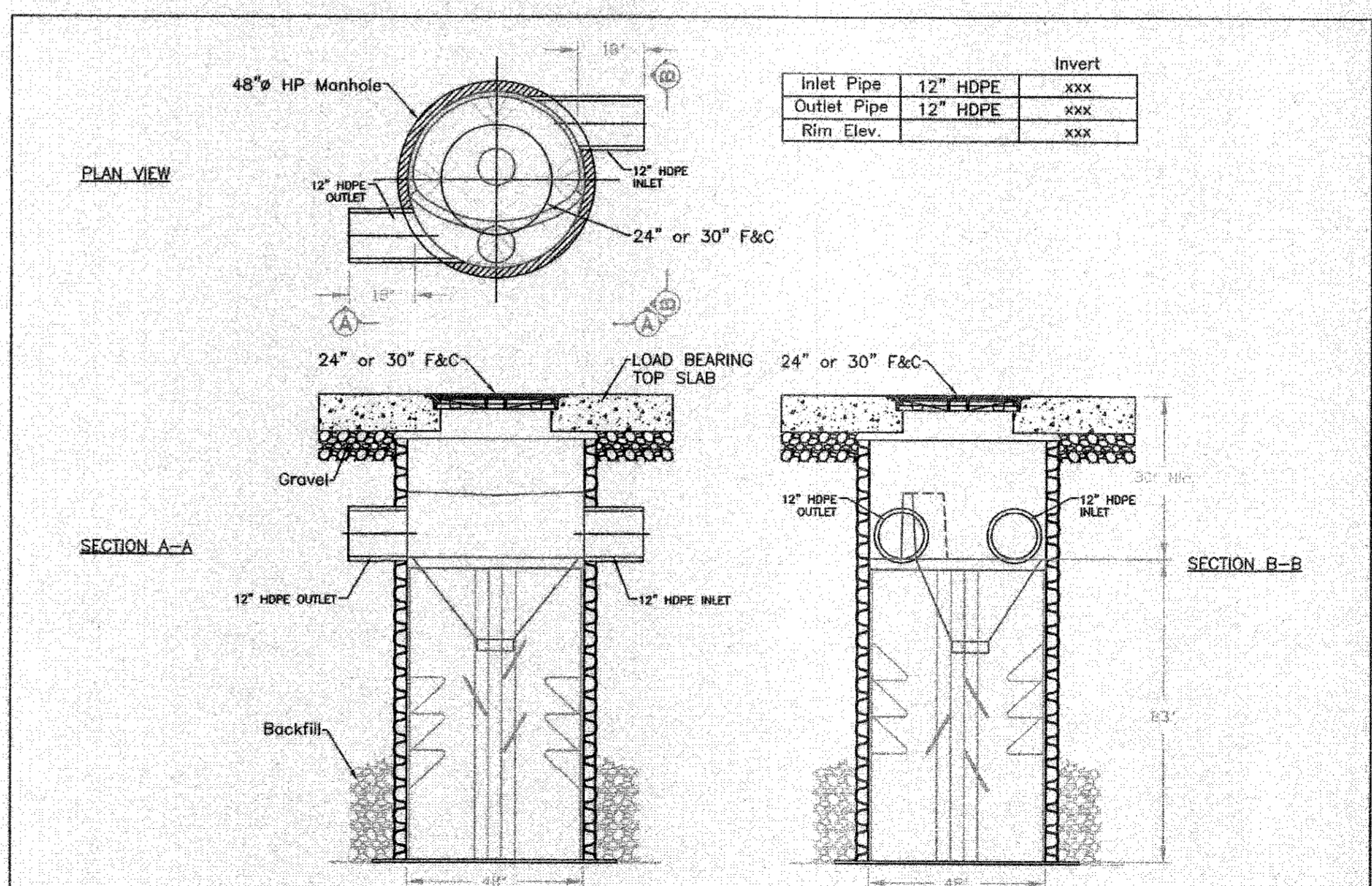
- COMPONENTS:**
OUTSIDE CASING: 100% organic hessian.
FILLER INGREDIENT: Mulch.
* A blend of coarse and fine compost and shredded wood.
* Particle sizes: 100% passing a 3" screen; 90-100% passing a 1" screen; 70-100% passing a 0.75" screen; 30-75% passing a 0.25" screen.
* Weight: Approx. 850 lbs./cu.yd. (Ave. 30 lbs./1.f.)

Mulch Sock INSTALLATION:
With the newest technology and equipment, sections can be constructed on site in lengths from 1' to 100'.
Sections can also be delivered to the site in lengths from 1' to 8'.
The flexibility of *Mulch Sock* allows it to conform to any contour or terrain while holding a slightly oval shape at 12" high by 18" wide.
Where section ends meet, there shall be an overlap of 8" or greater. Both sides shall be anchored (oak stakes, trees, etc.) to stabilize the union. No additional anchors are required on slopes less than 2:1. *Additional anchors are required at 5' intervals (max.) on the downslope or protected side on slopes greater than 2:1 to prevent movement.

Mulch Sock
N.T.S.



TYP. CONC. SIDEWALK DETAILS
N.T.S.



Inlet Pipe	12" HDPE	xxx
Outlet Pipe	12" HDPE	xxx
Rim Elev.		xxx

<p>1030 Deer Hollow Drive Mount Airy, MD 21771</p>	<p>4840 TRIEMAN BLVD MILLIARD, OH 43028</p>	<p>BARRACUDA S4 SYSTEM DETAIL</p>
--	---	-----------------------------------

DATE: _____
APPROVED DATE: _____
PLANNING BOARD

SIGNATURE DATE: _____
BEING A MAJORITY

- NOTES**
1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.
 2. "WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

OWNER
ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

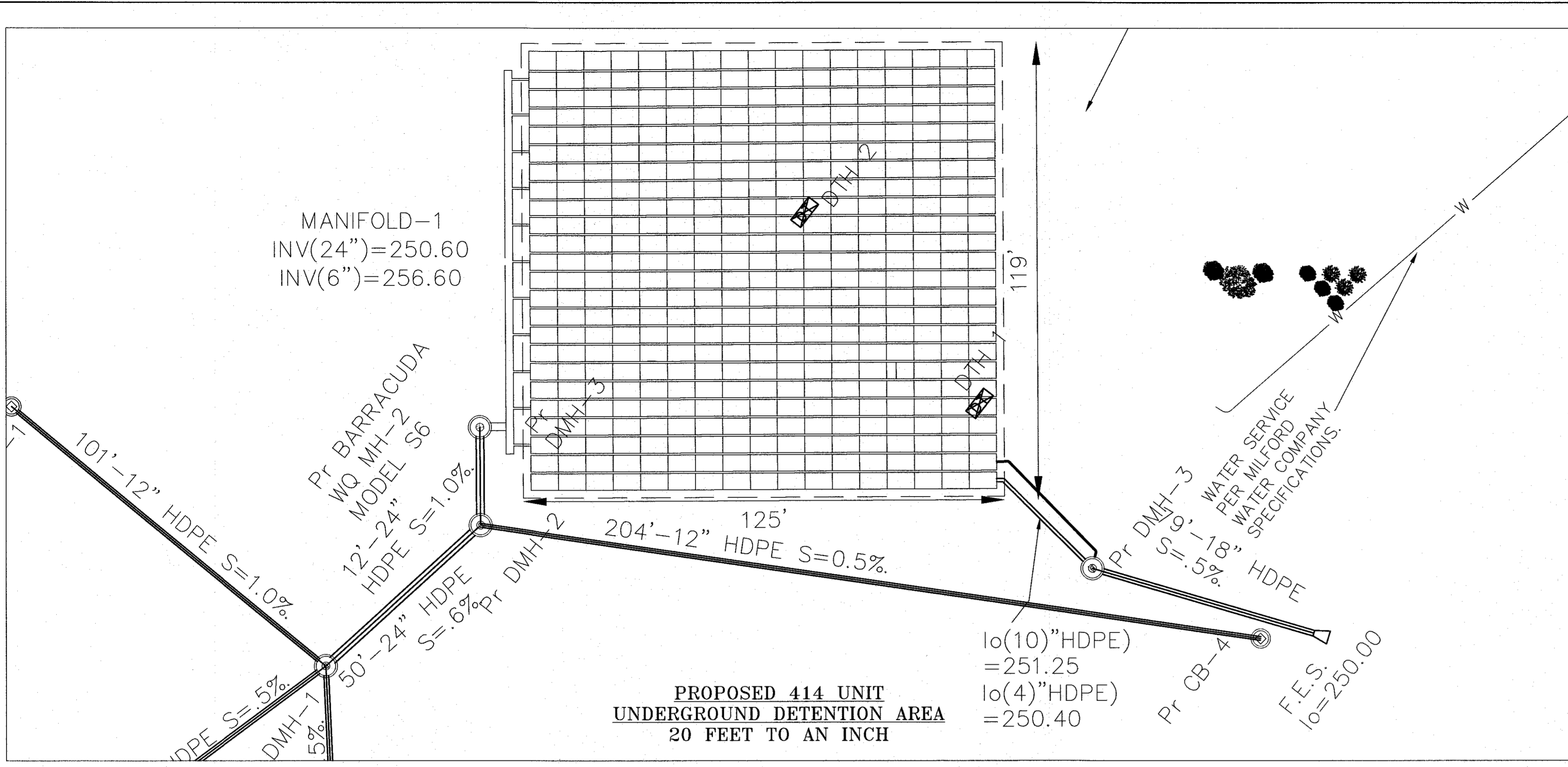
APPLICANT
ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

495 TRANSPORTATION TERMINAL I
21 BEAVER STREET

DETAIL SHEET
PLAN OF LAND
IN
MILFORD, MA
N.T.S.
DATE: JANUARY 2, 2020

#	DATE	DESCRIPTION	INI
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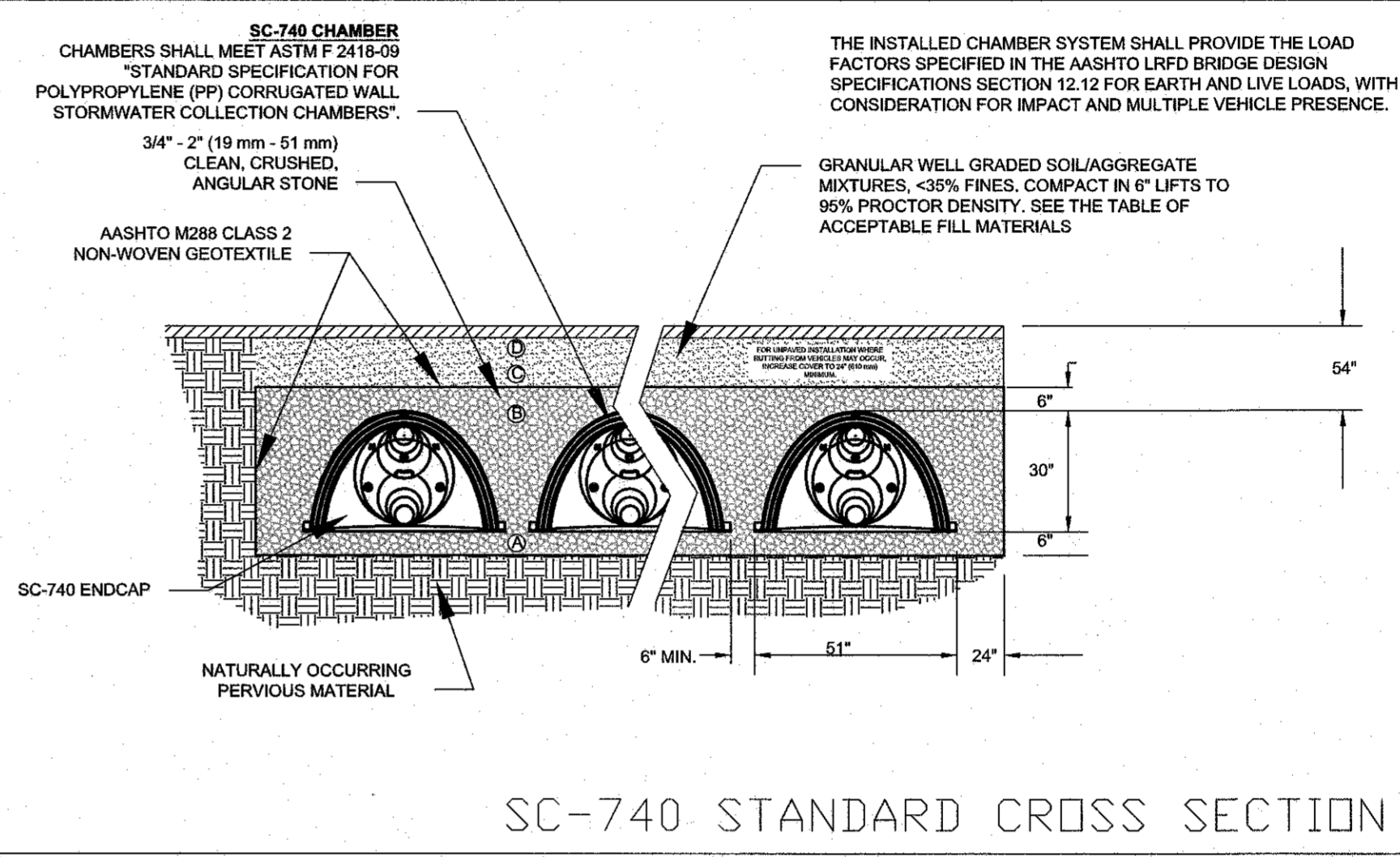
PROPOSED 414 UNIT UNDERGROUND DETENTION AREA
20 FEET TO AN INCH

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

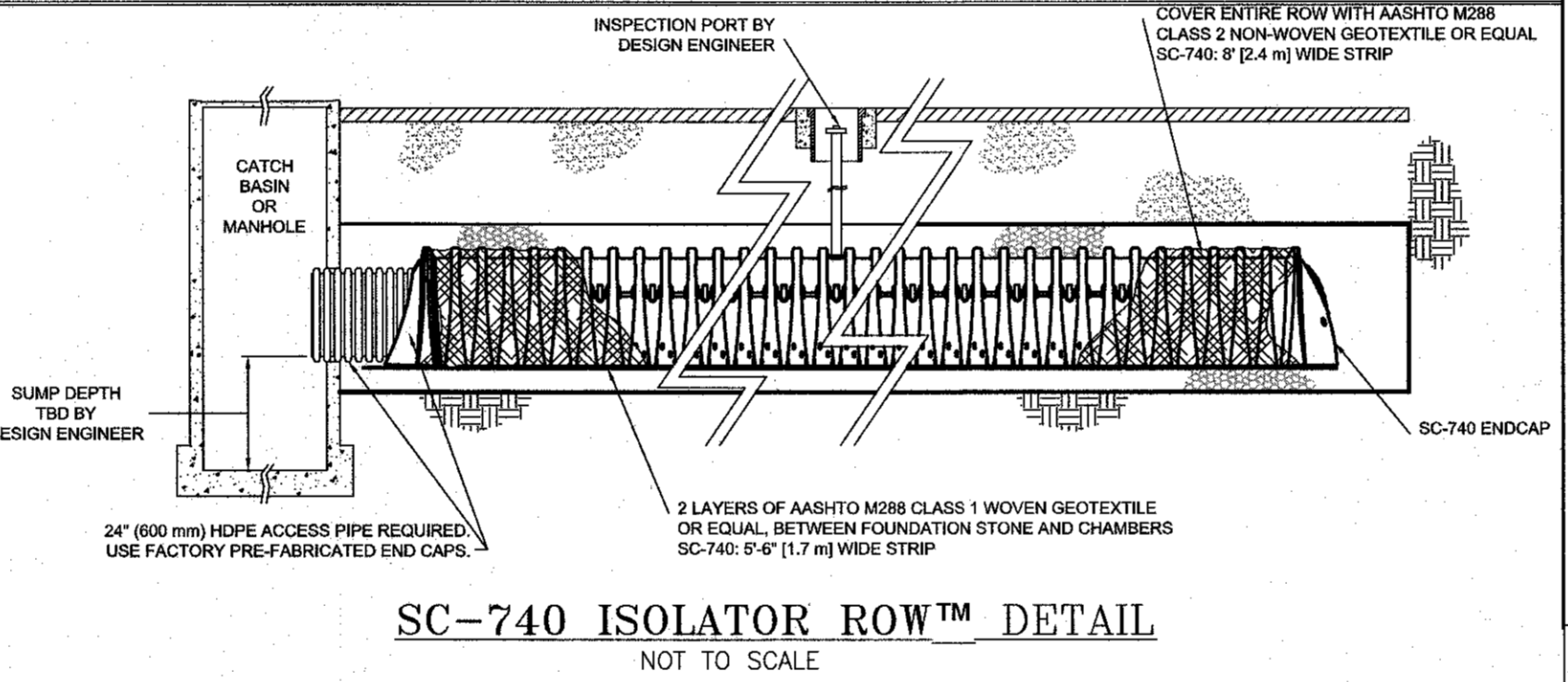
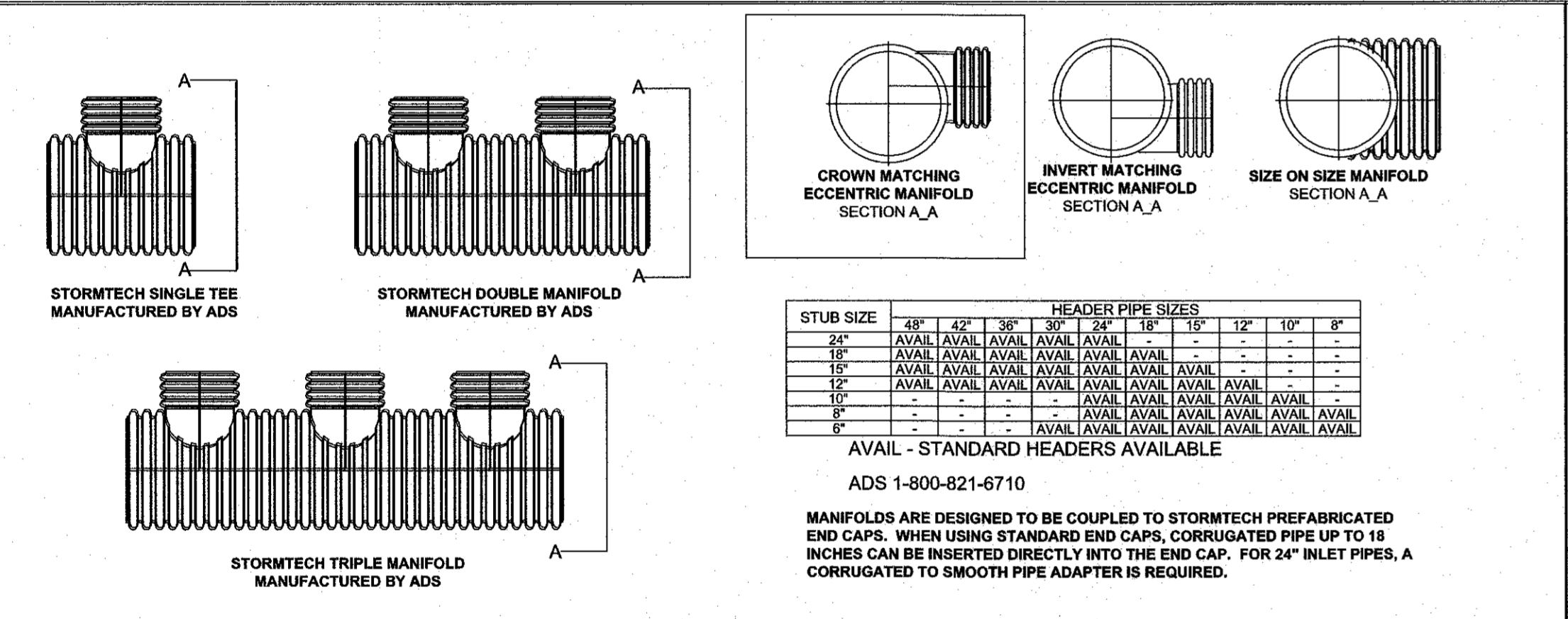
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION ¹	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE CLAYES TO THE TOP OF FLESHLY PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THIS LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR FILL ENGINEERS CLASS, DESCRIBED FOR PAVEMENT SUBGRADE REQUIREMENTS.	NA	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STEEPENED MATERIAL AND PREPARATION REQUIREMENTS.
② FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBANKMENT STONE (OF LAYER 'D') TO THE TOP OF THE CHAMBERS. NOTE THAT PAVEMENT SUBGRADE MAY BE A PART OF THIS LAYER.	GRANULAR WELL GRADED SOIL/AGGREGATE MIXTURES, <3% FINES. MOST PAVEMENT SUBGRADE MATERIALS CAN BE USED IN LAYER 'C' OF THIS LAYER.	3. 95, 4. 407, 5. 56, 57, 6. 51, 66, 7, 74, 8, 84, 9, 10	BEST COMPACTED AFTER 1" (25 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYER BY 1" (25 mm) LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY. ROLLER (GRADE VEHICLE WEIGHT NOT TO EXCEED 20,000 lbs (9,072 kg))
③ EMBANKMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" - 2 INCH (19 - 51 mm)	3. 95, 4. 407, 5. 56, 57	NO COMPACTION REQUIRED.
④ FOUNDATION STONE BELOW CHAMBERS FROM THE SURGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" - 2 INCH (19 - 51 mm)	3. 95, 4. 407, 5. 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY.

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR, NO. 4 (AASHTO M43) STONE."
2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'C' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 1" (25 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

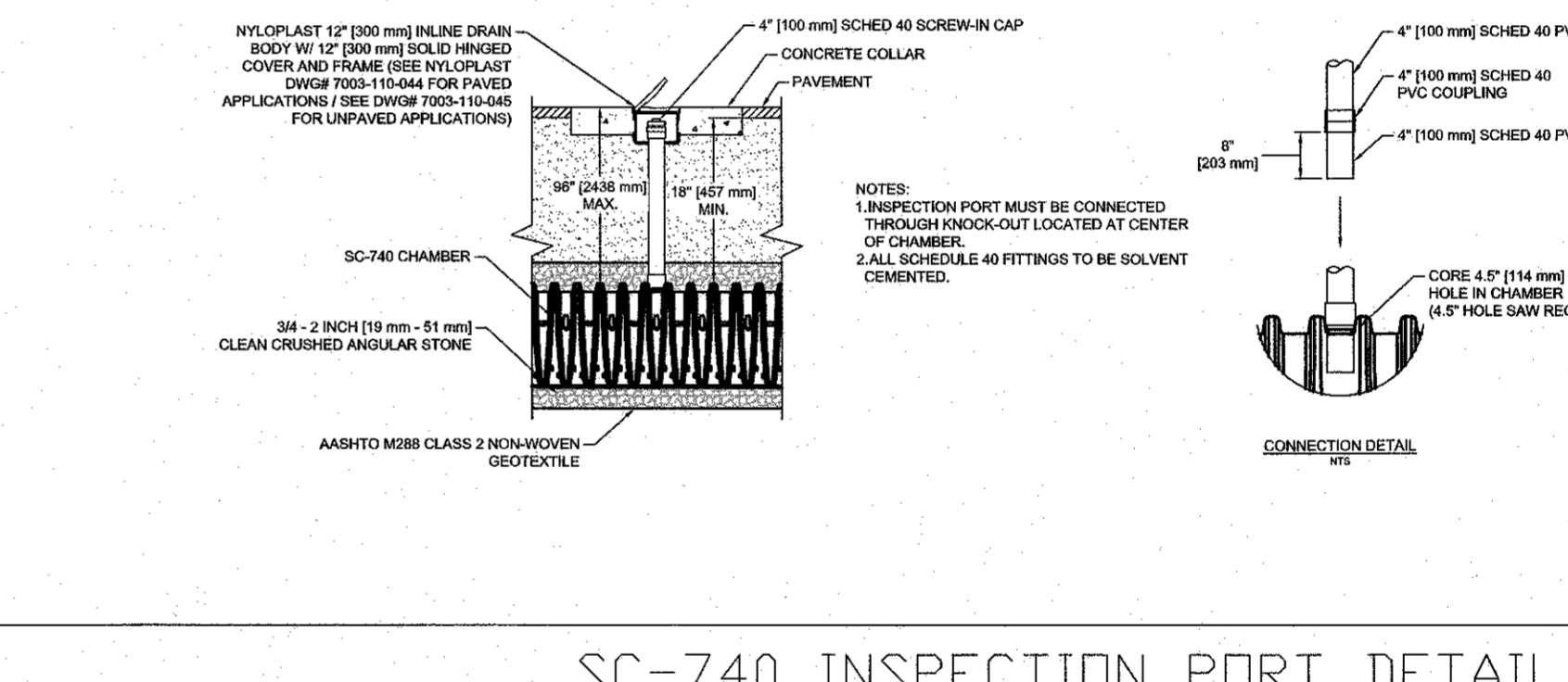
STORMTECH ACCEPTABLE FILL MATERIALS



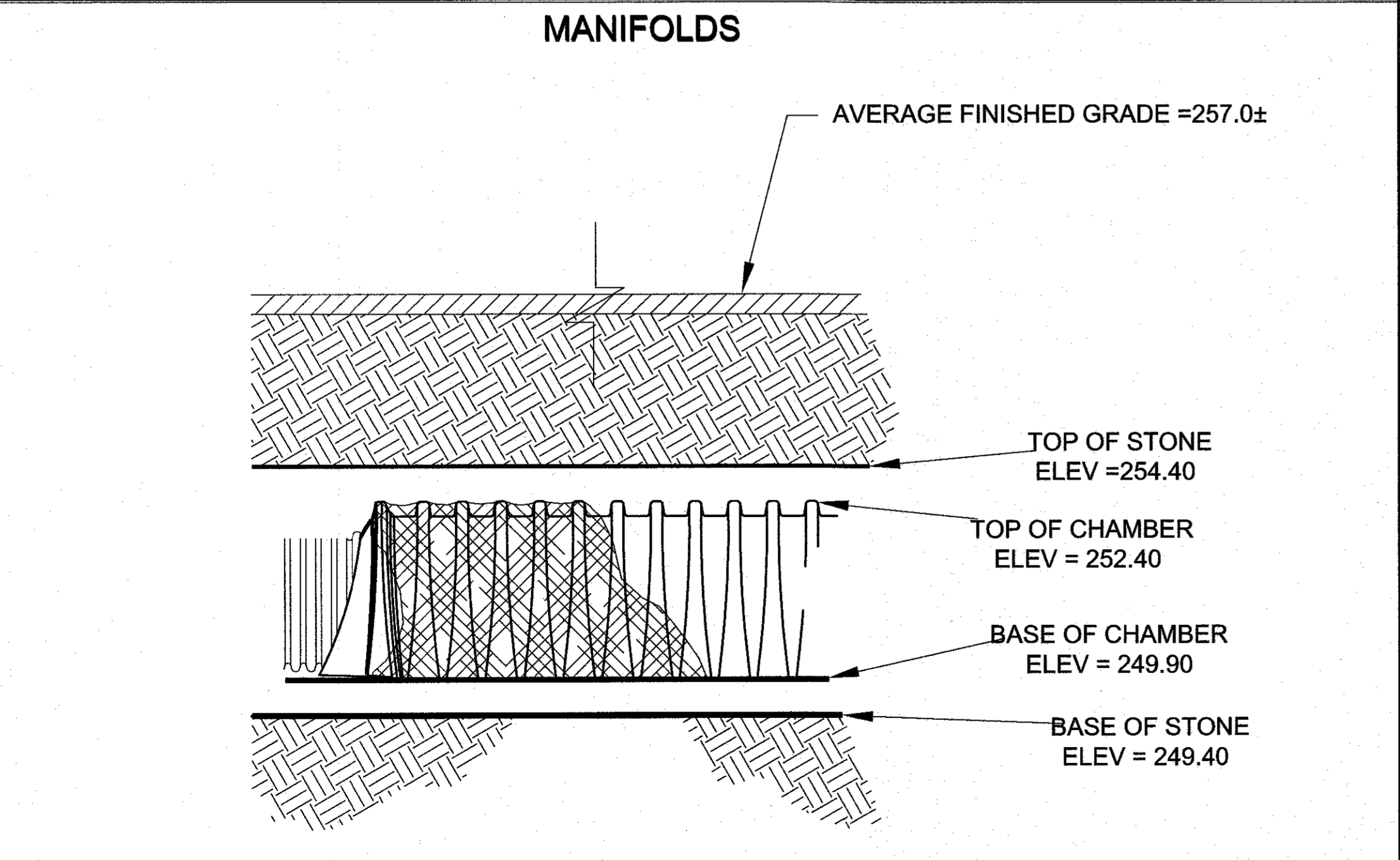
SC-740 STANDARD CROSS SECTION



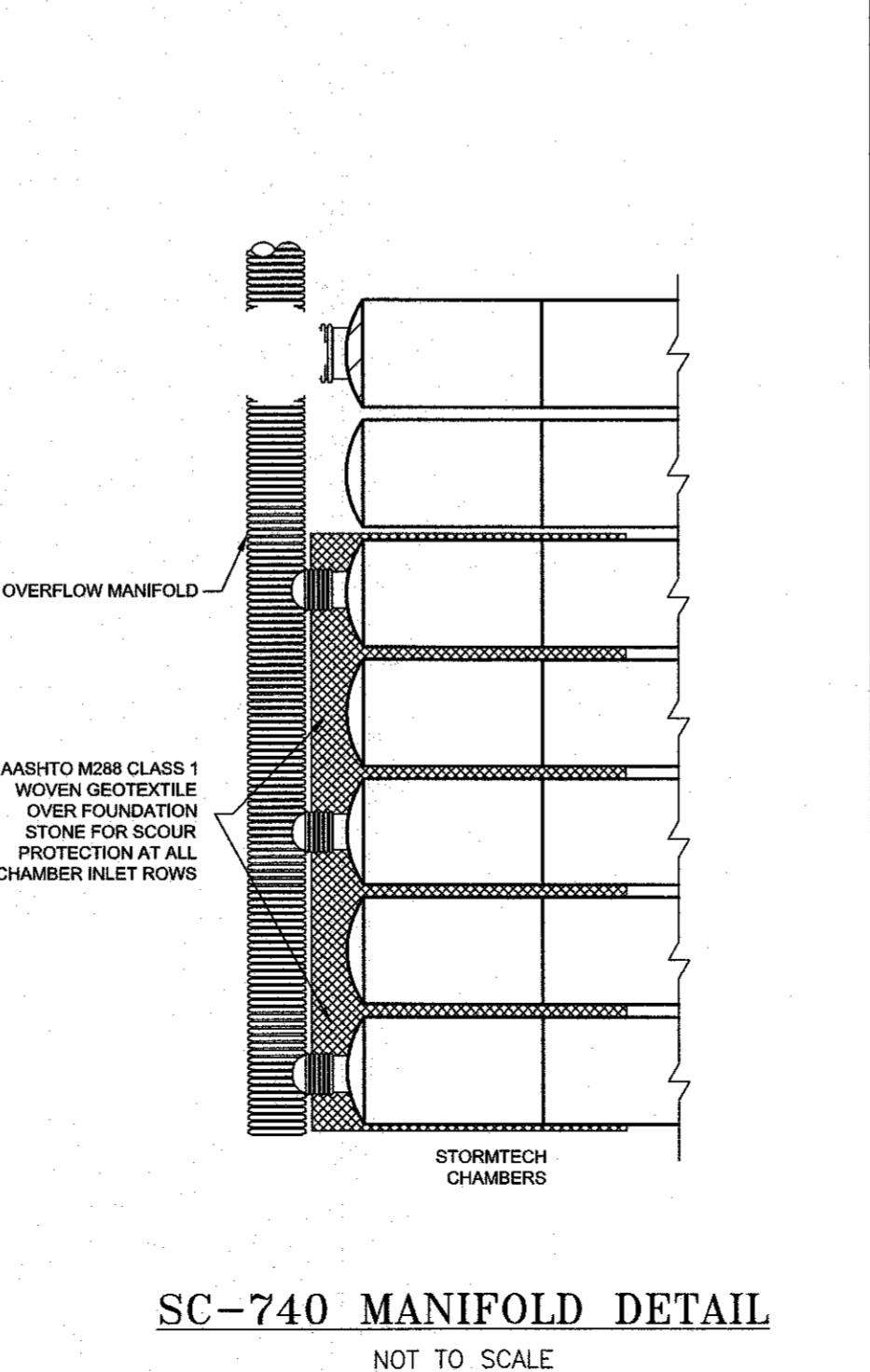
SC-740 ISOLATOR ROW™ DETAIL
NOT TO SCALE



SC-740 INSPECTION PORT DETAIL



SC-740 ELEVATIONS



SC-740 MANIFOLD DETAIL
NOT TO SCALE

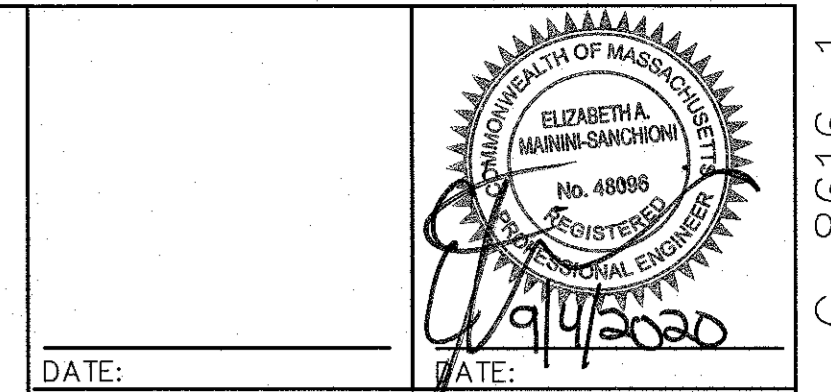
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART#	STUB	A	B	C
SC740EPE06T	6" [150 mm]	10.90" [277 mm]	18.50" [470 mm]	N/A
SC740EPE06B	6" [150 mm]	10.90" [277 mm]	N/A	0.50" [13 mm]
SC740EPE08T	8" [200 mm]	12.20" [310 mm]	16.50" [419 mm]	N/A
SC740EPE08B	8" [200 mm]	12.20" [310 mm]	N/A	0.60" [15 mm]
SC740EPE10T	10" [250 mm]	13.40" [340 mm]	14.50" [368 mm]	N/A
SC740EPE10B	10" [250 mm]	13.40" [340 mm]	N/A	0.70" [18 mm]
SC740EPE12T	12" [300 mm]	14.70" [373 mm]	12.50" [318 mm]	N/A
SC740EPE12B	12" [300 mm]	14.70" [373 mm]	N/A	1.20" [30 mm]
SC740EPE15T	15" [375 mm]	18.40" [467 mm]	9.00" [229 mm]	N/A
SC740EPE15B	15" [375 mm]	18.40" [467 mm]	N/A	1.30" [33 mm]
SC740EPE18T	18" [450 mm]	19.70" [500 mm]	5.00" [127 mm]	N/A
SC740EPE18B	18" [450 mm]	19.70" [500 mm]	N/A	1.60" [41 mm]
SC740EPE24B	24" [600 mm]	18.50" [470 mm]	N/A	0.10" [3 mm]

NOTE: ALL DIMENSIONS ARE NOMINAL.
ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-992-2694.
FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

SC-740 TECHNICAL SPEC.

- ALL DESIGN SPECIFICATIONS FOR STORMTECH SC-740 CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
- THE INSTALLATION OF STORMTECH SC-740 CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLTION. CALL 1-888-992-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLTION INSTRUCTIONS.
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.



DATE: _____
APPROVED DATE: _____
PLANNING BOARD
SIGNATURE DATE: _____
BEING A MAJORITY

- NOTES**
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P.O. BOX 444
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495 TRANSPORTATION TERMINAL I
21 BEAVER STREET

UNDERGROUND DETENTION
DETAIL
PLAN OF LAND
IN
MILFORD, MA

N.T.S.
DATE: JANUARY 2, 2020

#	DATE	DESCRIPTION	INI
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3	9-08-20	TOWN ENGINEERS REVIEW ITEMS	JMN



Plan View
Scale - 1" = 32ft

- NOTES:
- REFLECTANCES ASSUMED: SURFACE: 50
 - MOUNTING HEIGHTS:
AL-1 @ 20'-0" AFG
AL-2 @ 30'-0" AFG
 - TASK HEIGHT: AT GRADE
 - CALCULATION POINT SPACING: 15'X15' OC
 - EXTERIOR CALCULATION

DISCLAIMER:
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION. VALUES REPRESENTED ARE AN APPROXIMATION GENERATED FROM MANUFACTURERS PHOTOMETRIC IN-HOUSE OR INDEPENDANT LAB TEST WITH DATA SUPPLIED BY LAMP MANUFACTURERS.

STATISTICS						
DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN
Outer Perimeter	+	0.3 fc	9.2 fc	0.0 fc	N/A	N/A
Parking Lot	+	2.6 fc	10.4 fc	0.3 fc	34.7:1	8.7:1



SCHEDULE										
SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	# OF LAMPS	LUMENS PER LAMP	LLF	WATTAGE
□	AL-1	11	Lithonia Lighting	RSX2 LED P3 40K R4 **SINGLE HEAD @ 90° MOUNTED @ 20'-0" AFG**	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R4 Distribution	LED	1	22020	0.9	149.98
□	AL-2	5	Lithonia Lighting	RSX2 LED P3 40K R4 **DOUBLE HEAD @ 180° MOUNTED @ 30'-0" AFG**	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R4 Distribution	LED	1	22020	0.9	299.96

Beaver St Site
05-06-2020

Designer: Robert J. Lindstrom
Date: 1/18/2020
Scale: Not to Scale
Drawing No. Summary

Agenda Item # 17



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757

508-634-2317 Fax 508-473-2394

mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 13, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street
Milford, MA, 01757

Re: Notice of Intent for **26 Beaver Street - Proposed Transportation Terminal**
DEP File # 223- _____

Dear Mr. Giampietro:

I have reviewed the Notice of Intent filing for 26 Beaver Street (lots 23B, 23C & 25). The submittal is for a Proposed Transportation Terminal. The applicant is Route 85 Realty Corp., P.O. Box 444, Mendon, MA 01756.

The Parcels consists of 5.86 Acres, Zoned as Highway Industrial B (IB), located on the eastern side of Beaver Street adjacent to Route 495. The parcels refer to the Town Assessors Map 44, Block 0, Lots 23B, 23C & 25.

This project was recently in front of the Commission regarding the determination of the presence of a River / Riverfront. The project was issued a negative determination, therefore there is no presence of a River and in turn there is no Riverfront associated with the project.

The resource areas associated with the parcel are: Bordering Vegetated Wetlands, Bank and 100Year Flood Plain. The resource areas were delineated and re-evaluated by Goddard Consulting, LLC.

Following a review of the above referenced documents I offer the following comments:

1. Erosion control measures **are** shown on the plan; however, the detail **does not** include **Silt Fence** with Mulch Sock. Silt Fence should be added to the details.
2. Since the original submittal, the drainage analysis / design has been revised along with a final set of design plans.

I recommend the issuance of an Order of Conditions for the project.

Sincerely,



Michael Dean, P.E.
Town Engineer

October 7, 2020

Milford Conservation Commission
52 Main Street
Milford, MA 01757

Re: Notice of Intent
26 Beaver Street, MA 01757
Map 44, Parcels 25, 23C, 23B

Dear Milford Conservation Commission:

Goddard Consulting, LLC is pleased to submit this Notice of Intent (NOI) on behalf of Rte 85 Realty Corporation, for the property known as 26 Beaver Street in Milford, MA. The applicant proposes the construction of a parking lot and drainage within the 100-foot Buffer Zone to Bordering Vegetated Wetlands (BVW). This application is being filed under the Massachusetts Wetlands Protection Act (the WPA), Regulations 310 CMR 10.00 et. al.

Seven hard copies and a digital version of this application have been submitted for your review. A list of enclosed documents is as follows:

- NOI Application (WPA Form 3)
- Wetlands Fee Transmittal Form
- Copy of Checks
- Affidavit of Service, Notification to Abutters, Certified Abutters List
- Wetland Border Report, Goddard Consulting, LLC. 4/24/2020
- USGS of Site, Goddard Consulting, LLC. 3/4/2020
- Orthoview of Site, Goddard Consulting, LLC. 3/4/2020
- Stormwater Report for "495 Transportation Terminal II", Milford, MA, Guerriere & Halnon, Inc., 3/2/2020
- Site Plans: "495 Transportation Depot II" Transportation Terminal Site Plan, 26 Beaver Street, Milford, Massachusetts, Guerriere & Halnon, Inc., Revised 9/8/2020

Existing Conditions

The site of the proposed project consists of three parcels: Map: 44 Lot: 25 (2.74 acres), Lot: 23C (0.83 acres), and Lot: 23B (2.00 acres), totaling approximately 5.57 acres. Lot 25 has a vast lawn area with a vacant single-family home (see **Photo 1**). A non-jurisdictional isolated wetland was flagged within the maintained grass area near Medway Street with series A1-18 and is vegetated with sedges, rushes and steeplebush (all wetland species). During the site inspection, this wetland had indicators of hydrology such as standing water (1-inch of water), stained leaves and hydric soils. No physical connection (via land, water or culvert) to the adjacent Bordering Vegetated Wetland (BVW) was observed and therefore is considered isolated.



Photo 1: The existing single-family home on Lot 25 stands in the middle of a vast lawn.

According to the current USGS map, a presumptive perennial stream originates from a culvert at the northeastern corner of the parcel by Medway Street (see **Photo 2**). A narrow strip of BVW was delineated on each side of the stream. The stream flows through the lawn and continues into the adjacent parcel of land, Lot 23C, into a narrow grove of woody vegetation (partially BVW) along the northeastern edge of the parcel boundary. Lot 23C is narrow in shape and consists of the stream, BVW, and a driveway that connects to Beaver Street. The stream flows between the end of the driveway and a chain link fence (which marks the edge of the property). Beyond the fence is highway verge (lawn) and the on-ramp to Route 495. The stream and thin strip of surrounding BVW continues parallel to Route 495 until it spills into a large flooded swamp that encompasses the eastern and southern portions of Lot 23B. The northwestern portion of Lot 23B is an upland forest, littered with garbage, and dominant in oak, white pine, rose, honeysuckle, black birch, witch hazel, Canada mayflower, and princess pine.

The USGS mapped perennial stream has been a topic of discussion with the Milford Conservation Commission (the Commission) as part of an RDA submittal from June 16, 2020. Since the canal was human-made and built as a result of Route 495 and nearby development, the stream should not be considered natural. According to 310 CMR 10.58(2)(g):

Human-made canals (e.g., the Cape Cod Canal and canals diverted from rivers in Lowell and Holyoke) and mosquito ditches associated with coastal rivers do not have riverfront areas.

Due to the regulation stated above and the evidence presented as part of the RDA application, it is presumed that there is no Riverfront Area (RA) on Lot 25, 23C, and 23B. Although the Commission has not made a formal determination on whether the stream has RA, the Milford

Town Council has provided a report that agrees with the findings in the RDA and the applicant anticipated this issue will be resolved at the next public meeting, with a finding of a no RA status.

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife and has no mapped potential or certified vernal pools. The site is not located in an ACEC. There is a Zone AE FEMA Flood Zone located along the BVW boundary on Lot 23C and on portions of upland on Lot 23B. The resource area, Bordering Land Subject to Flooding (BLSF), extends from the delineated wetland line up to the 100-year FEMA flood elevation (249.40).



Photo 2: The stream discharges from the double piped culvert below Medway Street. The stream flows through the lawn and eventually enters a narrow grove of woody vegetation on Lot 23C.

Project Summary and Regulatory Compliance

The proposed project will construct a parking lot (283 spaces) and two stormwater discharges within the WPA’s 100-foot Buffer Zone to BVW and will comply with the regulations set forth in the WPA. The existing house will be razed, and mature trees will be cleared on the upland portions of Lot 23C and 23B, creating open space for the construction of the parking lot. The upland will be graded to the desired elevations for the construction of the parking lot, which is designed to direct stormwater into underground infiltration systems. During large rainstorms, excess stormwater from the underground infiltration systems will discharge out of two pipes, onto rip rap, towards the southern and southeastern edge of the upland on Lot 23B. Rip rap is proposed along the all edges of parking lot that are immediately adjacent to resource areas.

No work in the wetland resource areas (BVW & BLSF) are proposed. Construction will not adversely impact the resource areas considering there will be appropriate erosion control barriers (silt fence and mulch sock) placed at the limit of work.

Conclusion

Goddard Consulting believes that the proposed project will not have any adverse impacts on the interests identified in M.G.L c. 131 section 40. The project meets all regulatory compliance standards under the WPA, therefore Goddard Consulting respectfully requests that the Commission issues an Order of Conditions approving the proposed project. Please feel free to contact us if you have any questions.

Very truly yours,
Goddard Consulting, LLC



Scott Goddard,
Principal & PWS

CC: Mass DEP – CERO, 8 New Bond Street, Worcester, MA 01606
John Nenart, RTE 85 Realty Corporation, P.O. Box 444, Mendon, MA 01756



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

Milford

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>26 Beaver Street</u>	<u>Milford</u>	<u>01757</u>
a. Street Address	b. City/Town	c. Zip Code
<u>Latitude and Longitude:</u>	<u>42.1472830</u>	<u>-71.4865891</u>
	d. Latitude	e. Longitude
<u>44</u>	<u>25, 23C, 23B</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>John</u>	<u>Nenart</u>	
a. First Name	b. Last Name	
<u>Rte 85 Realty Corporation</u>		
c. Organization		
<u>PO Box 444</u>		
d. Street Address		
<u>Mendon</u>	<u>MA</u>	<u>01756</u>
e. City/Town	f. State	g. Zip Code
<u>508-422-1050</u>	<u>johnn@imperialcars.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

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

<u></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>Scott</u>	<u>Goddard</u>	
a. First Name	b. Last Name	
<u>Goddard Consulting, LLC</u>		
c. Company		
<u>291 Main Street, Suite 8</u>		
d. Street Address		
<u>Northborough</u>	<u>MA</u>	<u>01532</u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$1,500 + \$100 Advertisement Fee</u>	<u>\$737.50</u>	<u>\$762.50 + \$100 Ad Fee</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Construction of a parking lot and drainage within the 100-foot Buffer Zone to Bordering Vegetated Wetlands.

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:

Worcester

a. County

38955, 52720, 52662

c. Book

b. Certificate # (if registered land)

78, 316, 355

d. Page Number

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

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

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



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

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

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

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

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

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

4. Proposed alteration of the Riverfront Area:

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

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

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

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

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



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

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

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

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

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

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

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. 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



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- 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**

- 2017
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 <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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

- (c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm).
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, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm; 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:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

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.



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Provided by MassDEP:

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

Online Users:

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

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

D. Additional Information

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

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

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

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



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D. Additional Information (cont'd)

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

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

"495 Transportation Depot II" Transportation Terminal Site Plan, 26 Beaver Street, Milford, Massachusetts

Guerriere & Halnon, Inc.

Elizabeth A. Mainini-Sanchioni

b. Prepared By

c. Signed and Stamped by

9/8/2020

40' = 1"

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:

5433, 5434

9/23/2020, 9/23/2020

2. Municipal Check Number

3. Check date

5432

9/23/2020

4. State Check Number

5. Check date

Rte 85 Realty Corporation

6. Payor name on check: First Name

7. Payor name on check: Last Name



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F. Signatures and Submittal Requirements

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

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

 1. Signature of Applicant (John Nenart, Rte 85 Realty Corp)	<u>P.O.A. Rte 85 Realty Corp.</u> 2. Date
3. Signature of Property Owner (if different)	4. Date
 5. Signature of Representative (Scott Geddard, Goddard Consulting, LLC)	<u>9-23-20</u> 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:

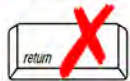
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



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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:

<u>26 Beaver Street</u>	<u>Milford</u>
a. Street Address	b. City/Town
<u>5432</u>	<u>\$737.50</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>John</u>	<u>Nenart</u>	
a. First Name	b. Last Name	
<u>Rte 85 Realty Corporation</u>		
c. Organization		
<u>P.O. Box 444</u>		
d. Mailing Address		
<u>Mendon</u>	<u>MA</u>	<u>01756</u>
e. City/Town	f. State	g. Zip Code
<u>508-422-1050</u>	<u>johnn@imperialcars.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing 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

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).



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
2b.	1	\$500	\$500
2g.	2	\$500	\$1,000
Advertising Fee	1	\$100	\$100

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	\$1,500 + \$100 Ad Fee
	a. Total Fee from Step 5
	\$737.50
State share of filing Fee:	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	\$762.50 + \$100 Ad Fee
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

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

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

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

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

Rte 85 Realty Corporation
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Rockland Trust
Milford, MA 01757

5432

Printed With User ID: 09/23/20 12:18:47 pm

DATE: 9/23/2020

 **PAY 737.50**
ONLY SEVEN THIRTY SEVEN DOLLARS AND FIFTY CENTS

PAY Seven Hundred Thirty-Seven and 50/100 Dollars

TO THE ORDER OF
Commonwealth of Massachusetts

MEMO: 26beaverst



SIGNATURE HAS A COLORED BACKGROUND - BORDER CONTAINS MICROPRINTING

⑈005432⑈ ⑆011303327⑆ ⑆1538510⑈

Rte 85 Realty Corporation
NAME: Commonwealth of Massachusetts

Date 9/23/2020
Type Reference
Bill 26beaverst

CHECK DATE: 9/23/2020

Original Amt.	737.50	Balance Due	737.50
		Discount	
		Check Amount	

5432

Payment	737.50
	737.50

Rockland Trust-Check 26beaverst

737.50

Rte 85 Realty Corporation
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Rockland Trust
Milford, MA 01757

5433

Printed With User Option: 09/23/20 12:16:47 pm
DATE: 9/23/2020

 **PAY 762.50**
ONLY SEVEN SIX TWO DOLLARS CENTS

\$ 762.50

PAY Seven Hundred Sixty-Two and 50/100 Dollars

TO THE ORDER OF
Town of Milford

MEMO: 26beaverst

Kathleen R. Quirk

SIGNATURE HAS A COLORED BACKGROUND - BORDER CONTAINS MICROPRINTING

⑆005433⑆ ⑆011303327⑆ 181536510⑆

Rte 85 Realty Corporation

NAME: Town of Milford

Date 9/23/2020
Type Reference
Bill 26beaverst

CHECK DATE: 9/23/2020

Original Amt. 762.50
Balance Due 762.50
Discount
Check Amount

Payment
762.50
762.50

5433

Rockland Trust-Check 26beaverst

762.50

THIS CHECK IS VOID WITHOUT A BLUE & GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK. HOLD AT AN ANGLE TO VIEW.

Rte 85 Realty Corporation
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Rockland Trust
Milford, MA 01757

5434

Printed on Recycled Paper
DATE: 9/23/2020

 **PAY 100.00**
ONLY One Zero Zero Digits

\$ 100.00

PAY One Hundred and 00/100 Dollars

TO THE ORDER OF
Town of Milford

MEMO: 26beaverst

Kathleen R. Cressida

SIGNATURE HAS A COLORED BACKGROUND • BORDER CONTAINS MICROPRINTING

⑈005434⑈ ⑆011303327⑆ 181536510⑈

Form 615-B6

Rte 85 Realty Corporation

5434

NAME: Town of Milford

CHECK DATE: 9/23/2020

Date 9/23/2020
Type Reference
Bill 26beaverst

Original Amt. 100.00

Balance Due 100.00

Discount

Payment 100.00

Check Amount 100.00

Rockland Trust-Check 26beaverst

100.00

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(to be submitted to the Massachusetts Department of Environmental
Protection and the Conservation Commission)

I, Mitch Maslanka hereby certify under the pains and penalties of perjury that on 10-8-2020 I gave notification to abutters in Compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dating April 8, 1994 in connection with the following matter:

A Notice Of Intent was filed under the Massachusetts Wetlands Protection Act by John Nenart of RTE 85 Realty Corp. with the Milford Conservation Commission on 10-7-2020 for property located at 26 Beaver Street, (Map 44, Parcels 25, 23C, 23B) in Milford, MA for the construction of a parking lot within the 100-foot Buffer Zone to Bordering Vegetated Wetlands.

The form of the notification, and the list of abutters to whom it was given, and their addresses, are attached to this Affidavit of Service.

Mitch Maslanka
(Name)

10-6-2020
(Date)

Notification to Abutters Under the Massachusetts Wetlands Protection Act

In accordance with the Massachusetts General Laws Chapter 131, Section 40 (the Wetlands Protection Act) you are hereby notified of the following:

1. The applicant's name is John Nenart of RTE 85 Realty Corp.
2. The applicant has filed the following application with the Milford Conservation Commission
 - A Notice of Intent, seeking permission to alter an area that is subject to protection under the Wetlands Protection Act.
 - A request to amend an existing Order of Conditions.
 - A Notice of Resource Area Delineation, seeking to determine the extent of areas subject to protection under the Wetlands Protection Act and/or Bylaw.
3. The address or location of the site where the activity is proposed is: 26 Beaver Street, (map 44, lots 25, 23C, 23B).
4. The proposed activity is construction of a parking lot and storm drainage within the 100-foot buffer zone to Bordering Vegetated Wetlands.
5. Copies of the above application may be examined at the Milford Conservation Commission's office, located in the Town Hall, 52 Main St, Milford, MA. Copies may be obtained at the office for a fee or from the applicant's representative; Goddard Consulting LLC at 1-508-393-3784.
6. Information regarding the date, time, and place of the public hearing may be obtained:
 - a. by calling the Milford Conservation Commission
 - b. from the applicant's representative; Goddard Consulting LLC at 1-508-393-3784.

PLEASE NOTE:

1. Notice of the public hearing including its date, time, and place will be published at least five business days in advance in the local newspaper and will be posted in the Town Hall not less than 48 hours in advance.
2. For more information about this application, the Wetlands Protection Act, or Notice of Intent Process, please contact the Conservation Commission or the Massachusetts Department of Environmental Protection (DEP) Central Office, 8 New Bond Street, Worcester, MA 01606



**TOWN OF MILFORD
BOARD OF ASSESSORS
CERTIFIED ABUTTERS LIST**

Certified by: 

Date: 09/21/2020

100 ft

Subject Properties - 26 Beaver Street

Abutters

ID	Site Address	Owner	Owner 2	Address	City	State	Zipcode
44-0-24	BEAVER ST	TOWN OF MILFORD		52 MAIN ST	MILFORD	MA	01757
44-0-25A	21 BEAVER ST	RTE 85 REALTY CORP		8 UXBRIDGE RD	MENDON	MA	01756
44-0-23B	BEAVER ST	RTE 85 REALTY CORP		8 UXBRIDGE RD	MENDON	MA	01756
44-0-23C	BEAVER ST	RTE 85 REALTY CORP		8 UXBRIDGE RD	MENDON	MA	01756
44-0-27	22 BEAVER ST	22 BEAVER STREET LLC	C/O TAGE ASSOCIATED LIMITED	P O BOX 386	WESTON	MA	02493
44-0-26	147 MEDWAY RD	A & R SERRANO INC	C/O JANICE KIRBY	25 JOSIAH DRIVE	UPTON	MA	01568

April 24, 2020

85 Realty Corp
P.O.Box 444
Mendon, MA 01756

Re: Wetland Border Report and Riverfront Analysis
Beaver St. Milford

Dear 85 Realty Corp:

On April 7, 2020 during no snow and un-frozen ground conditions the wetland resources were delineated on land located at the above referenced site (refer to enclosed locus maps). The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

One Bordering Vegetated Wetland and one potentially isolated wetland were delineated in the field. The potentially isolated wetland was flagged with series A1-18. This area is located within a maintained grass area near Medway Street and is vegetated with sedges, rushes and steplebush (all wetland species). During the site inspection this wetland had indicators of hydrology such as standing water (1-inch of water), stained leaves and hydric soils. No physical connection (via land, water or culvert) to the adjacent Bordering Vegetated Wetland (BVW) was observed and therefore is considered isolated.

The BVW located on site was flagged with series GC1-128. This wetland is dominant in red maple, buckthorn, winterberry, arrow-wood, spicebush, sweet pepperbush, high bush blueberry, poison ivy and wetland ferns. The adjacent forested upland is dominant in oak, white pine, rose, honeysuckle, black birch, witch hazel, Canada Mayflower and princess pine. Department of Environmental Protection BVW field data forms were documented at wetland flag # GC-58 and B6 (see attached forms). An upland island was delineated out of the "GC" wetland with series B1-35. This upland area is dominant in white pine, oak, birch and witch hazel.

According to the current USGS map (see Figure 1 and 2) a mapped perennial stream is located in the northern and eastern sections of the site. The most northern section of this stream channel, near Medway Street within a maintained lawn area, appears to be man-made and hand dug due to its linear orientation and consistency in channel depth, height and elevation. Today this dug channel connects to a flooded swamp in the eastern section of the site, west of Route 495.

The attached historic USGS Maps and Aerial Photographs enclosed in this report indicate that the on-site river shown on the most recent USGS map was manipulated during and after the construction of Route 495. As shown in the attached figures, no river was present in the eastern portion of the site in 1942 and/or 1953. It was not until after the construction of Route 495 in the

late 60's that the water associated with this historical river was re-directed onto the site under Route 495. It is after the construction of Route 495 that a perennial river is mapped on the USGS maps (see figures 3-7).

Furthermore, according to 310CMR10.58(2)(g) "Human-made canals and mosquito ditches associated with coastal rivers do not have riverfront areas." As stated earlier in this report the northern channel on site appears to be man-made. Since this northern portion of the channel is human-made and the eastern channel is a direct, man-made result of the construction of Route 495 (as proven above with historic USGS maps) the streams on site should not be considered natural and/or perennial and would not have a 200-ft Riverfront Area associated with them. To further support this, a stream stats analysis was performed for the northern section of the stream and the eastern section of the stream (see attached). The results calculated show that the northern section of the stream has a watershed of 0.38 acers with a 0.007 cubic feet predicted flow rate at the 99% flow duration. The eastern section of the stream has a 0.40 acer watershed with a 0.008 cubic feet predicted flow rate at the 99% flow duration. These measurements are below the required .50 acer watershed and 0.01 cubic flow rate identified in the regulations for perennial streams in section 310CMR10.58(2)1(C).

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife and has no mapped potential or certified vernal pools. The site is not located in an ACEC; however, is located in a Zone II area and a jurisdictional FEMA Flood Zone; so that the resource area Bordering Land Subject to Flooding (BLSF) is located from the delineated wetland line up to the 100-year FEMA flood elevation.

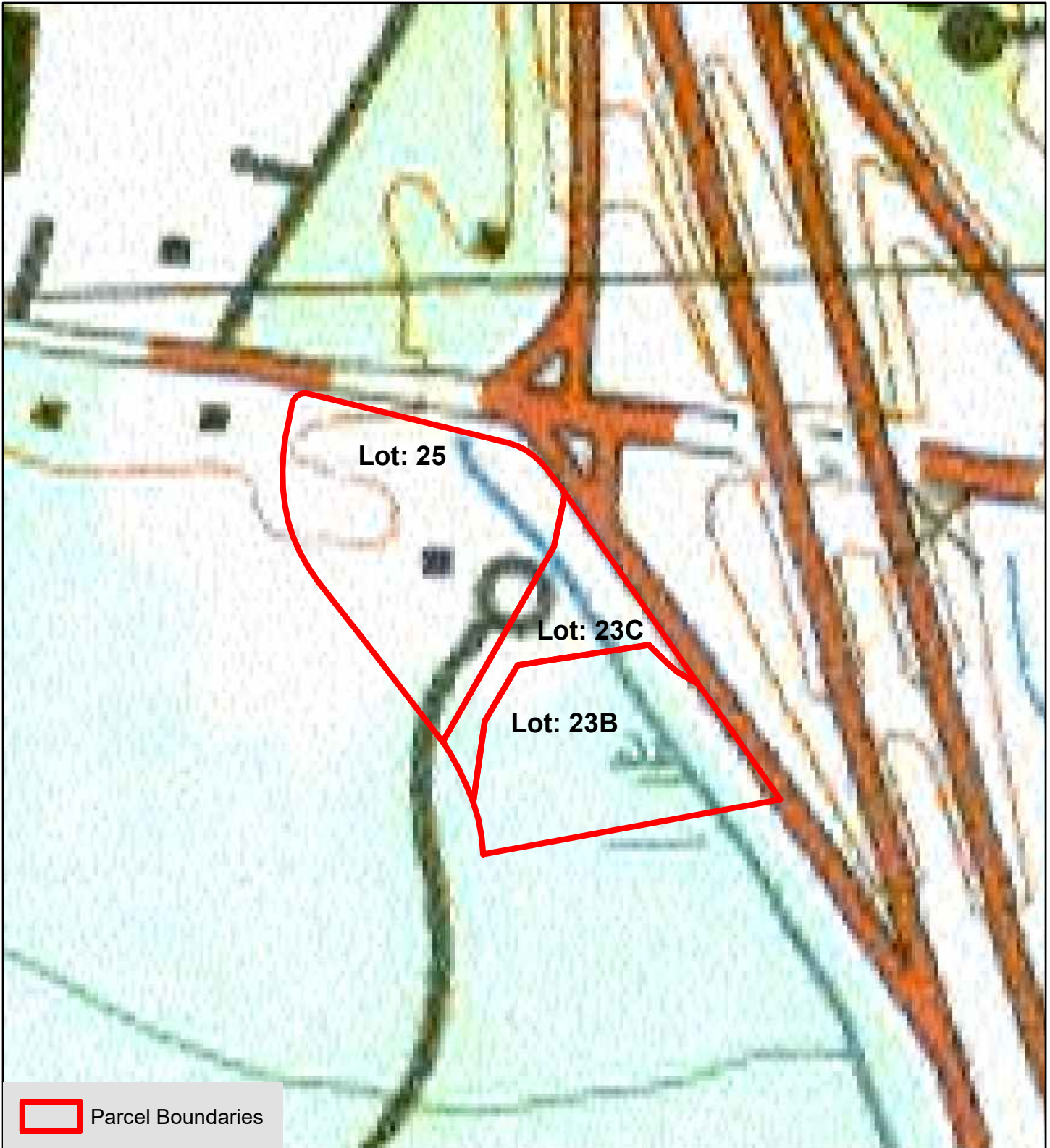
The Wetlands Protection Act takes jurisdiction over BVW and BLSF resources; but does not take jurisdiction over isolated wetlands unless they qualify as the resource area Isolated Land Subject to Flooding (which is an area able to hold $\frac{1}{4}$ acer foot of water with a minimum depth of 6-inches). The isolated wetland on site is small and shallow and cannot hold $\frac{1}{4}$ acre foot of water and therefore; is not jurisdictional. In addition, the BVW resource area has a jurisdictional 100-foot Buffer Zone. In comparison, the BLSF resource area does not have a buffer zone. Any work within any resource area and/or the 100-foot BVW buffer zone requires a Request for Determination (RDA) or Notice of Intent (NOI) be filed with the Conservation Commission.

Very truly yours,
GODDARD CONSULTING, LLC



Scott Goddard,
Principal & PWS

Figure 1 Latest USGS MAP
Rivers shown in blue



USGS of Site
Beaver Street - Milford, MA
(Map: 44, Lot: 25, 23C, 23B)

N
3/4/2020
0 50 100 200 Feet
1 inch = 200 feet

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"

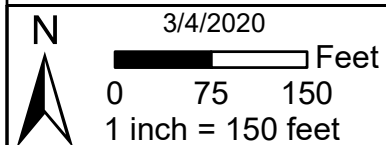


Figure 2. Orthophoto showing the River on site (in orange) according to the latest USGS MAP



Orthoview of Site

Beaver Street - Milford, MA
(Map: 44, Lot: 25, 23C, 23B)



GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"



Figure 3
1942 USGS MAP

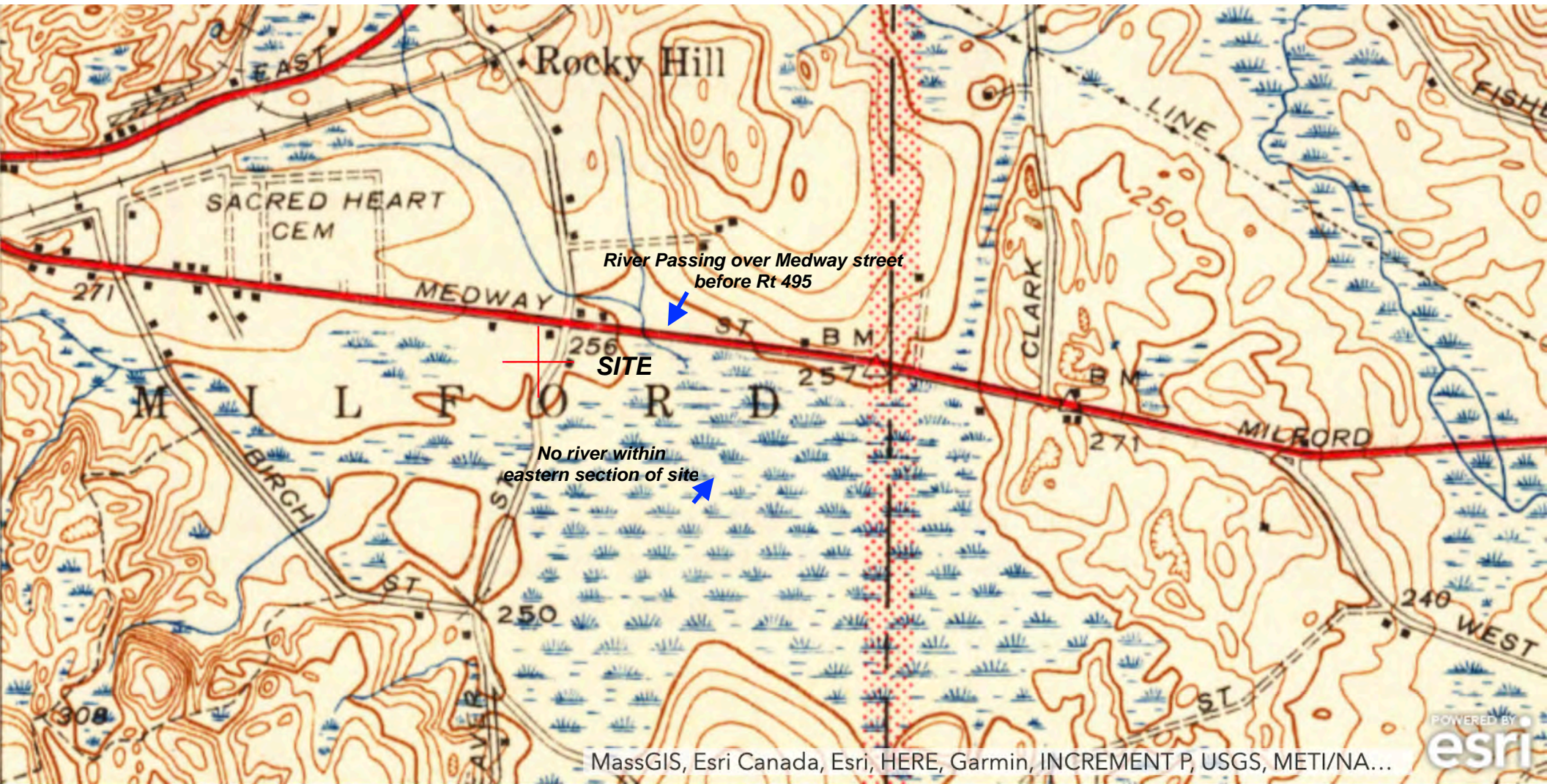


Figure 4. 1953 USGS Map
Same as 1942 USGS Map

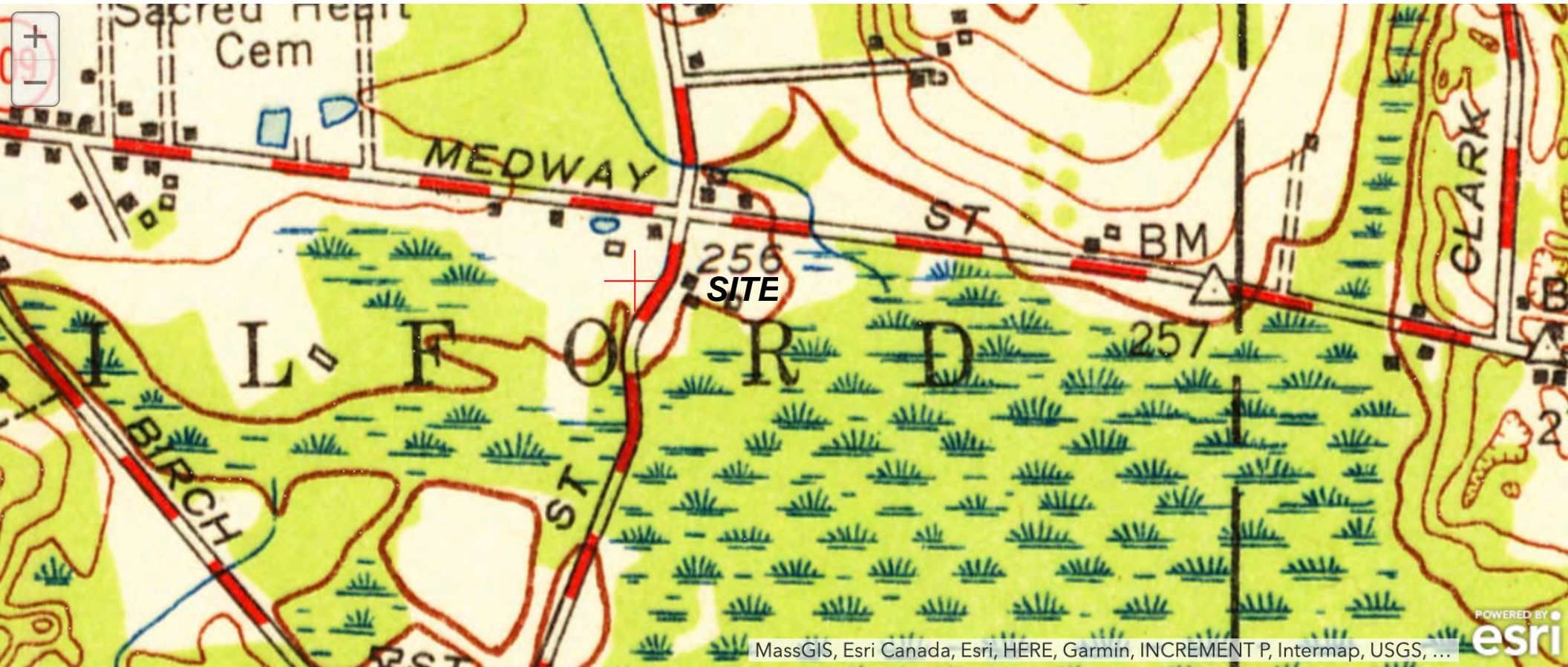
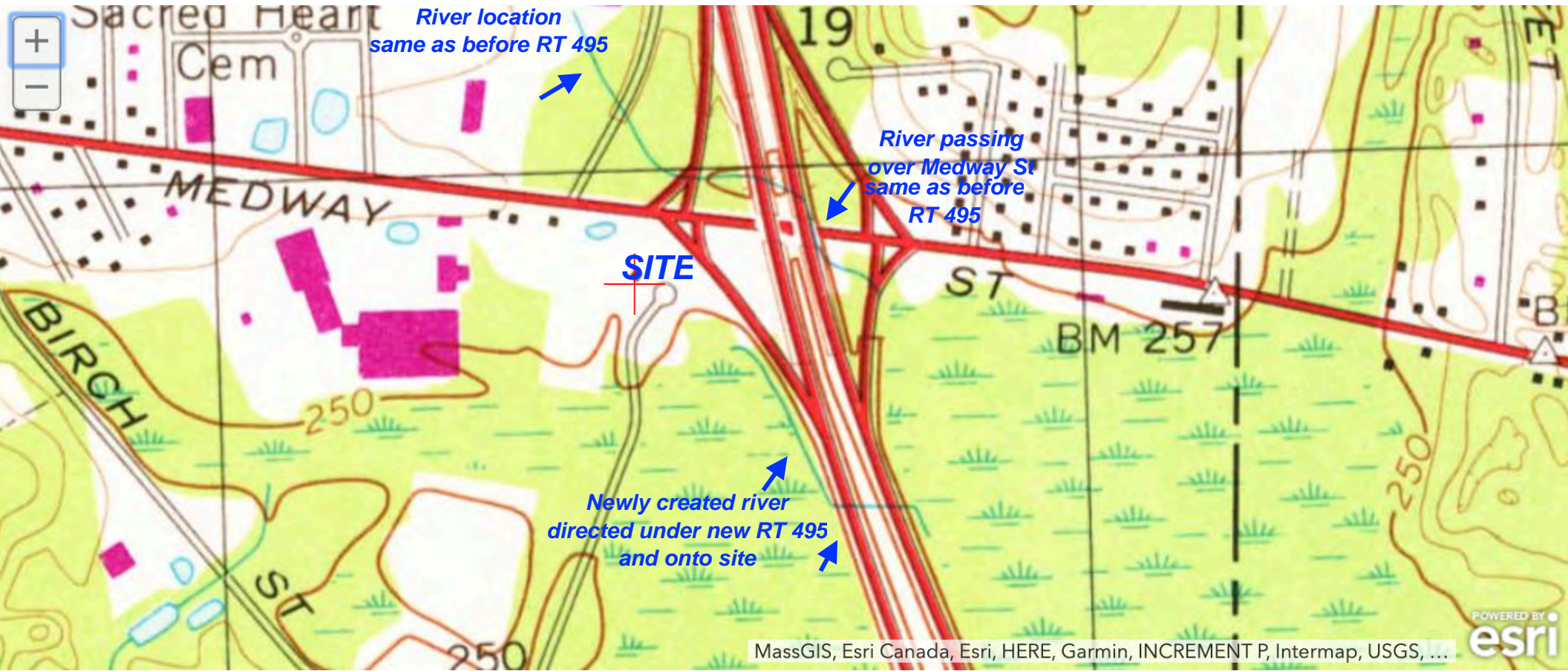


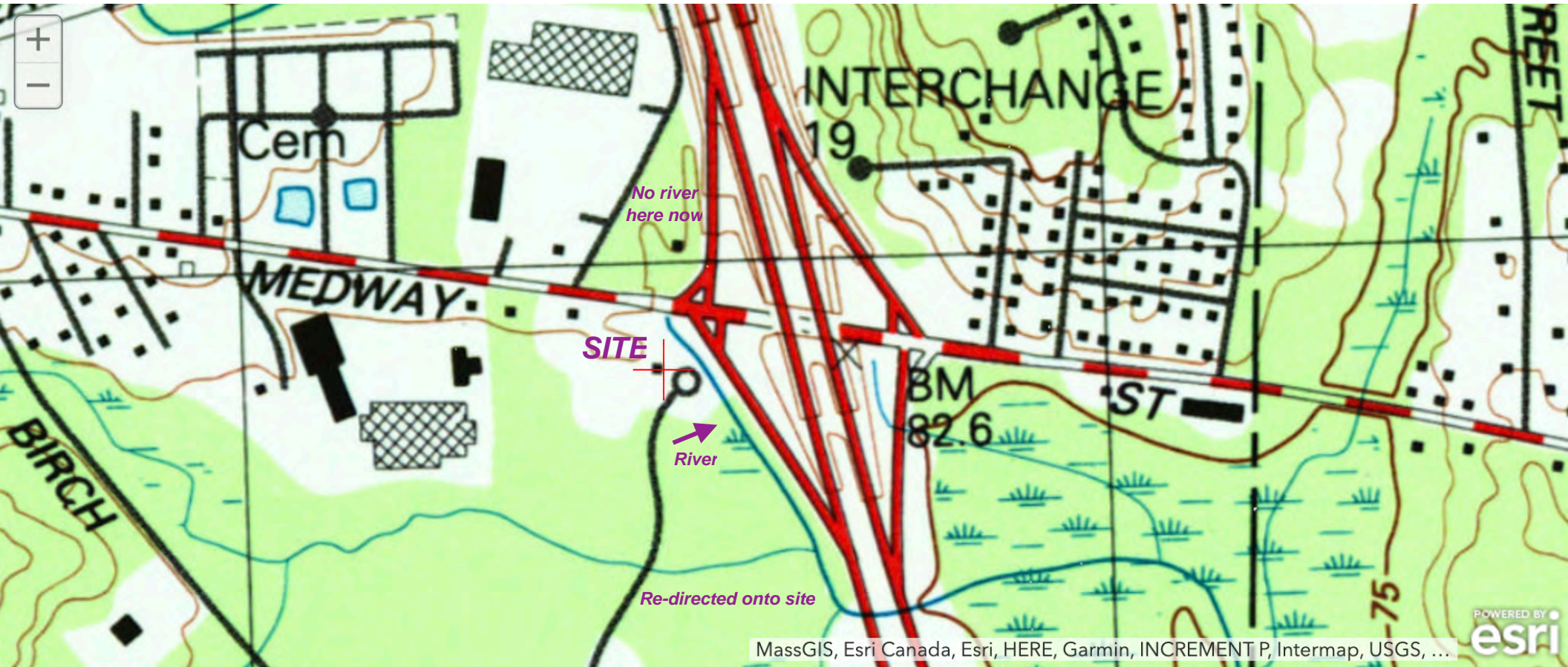
Figure 5 1979 USGS Map



**Figure 6. 1977 Orthophoto
Showing River re-directed onto site
by construction of RT 495**

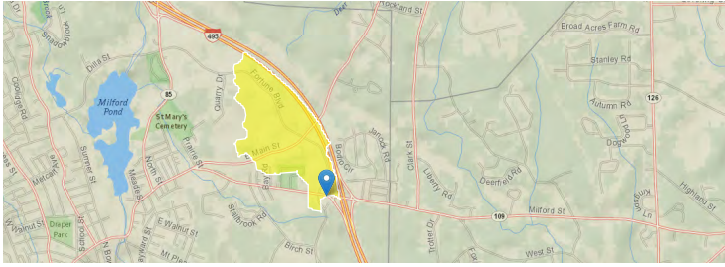


Figure 7. 1987 USGS MAP
Showing River Re-directed onto site



StreamStats Report

Region ID:
MA
Workspace ID:
MA20200424192432557000
Clicked Point (Latitude, Longitude):
42.14750, -71.48651
Time:
2020-04-24 15:24:48 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.38	square miles
DRFTPERSTR	Area of stratified drift per unit of stream length	0.1	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
BSLDEM250	Mean basin slope computed from 1:250K DEM	3.083	percent
PCTSDGRV	Percentage of land surface underlain by sand and gravel deposits	21.89	percent
FOREST	Percentage of area covered by forest	25.8	percent
BSLDEM10M	Mean basin slope computed from 10 m DEM	5.699	percent

Flow-Duration Statistics Parameter

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.38	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	0.1	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	3.083	percent	0.32	24.6

Flow-Duration Statistics Disclaimer

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Flow-Duration Statistics Flow Report

Statistic	Value	Unit
50 Percent Duration	0.356	ft ³ /s
60 Percent Duration	0.227	ft ³ /s
70 Percent Duration	0.121	ft ³ /s
75 Percent Duration	0.0893	ft ³ /s
80 Percent Duration	0.0739	ft ³ /s
85 Percent Duration	0.0515	ft ³ /s
90 Percent Duration	0.037	ft ³ /s
95 Percent Duration	0.0194	ft ³ /s
98 Percent Duration	0.0118	ft ³ /s
99 Percent Duration	0.00797	ft ³ /s

Flow-Duration Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

Low-Flow Statistics Parameter

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.38	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	3.083	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.1	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

Low-Flow Statistics Disclaimer

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0198	ft ³ /s
7 Day 10 Year Low Flow	0.00689	ft ³ /s

Low-Flow Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

August Flow-Duration Statistics Parameter

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.38	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	3.083	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.1	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

August Flow-Duration Statistics Disclaimer

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

August Flow-Duration Statistics Flow Report

Statistic	Value	Unit
August 50 Percent Duration	0.054	ft ³ /s

August Flow-Duration Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

Probability Statistics Parameters^(Perennial Flow Probability)

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.38	square miles	0.01	1.99
PCTSDNGRV	Percent Underlain By Sand And Gravel	21.89	percent	0	100
FOREST	Percent Forest	25.8	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

Probability Statistics Flow Report^(Perennial Flow Probability)

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SEI: Standard Error (other -- see report)

Statistic	Value	Unit	PC
Probability Stream Flowing Perennially	0.817	dim	71

Probability Statistics Citations

Bent, G.C., and Steeves, P.A., 2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006-5031, 107 p. (http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf)

Bankfull Statistics Parameters^(Bankfull Statistics SRO213 5155)

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.38	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	5.699	percent	2.2	23.9

Bankfull Statistics Disclaimers^(Bankfull Statistics SRO213 5155)

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Bankfull Statistics Flow Report^(Bankfull Statistics SRO213 5155)

Statistic	Value	Unit
Bankfull Width	9.88	ft
Bankfull Depth	0.698	ft
Bankfull Area	6.79	ft ²
Bankfull Streamflow	15.1	ft ³ /s

Bankfull Statistics Citations

Bent, G.C., and Waite, A.M., 2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013-5155, 62 p., (<http://pubs.usgs.gov/sir/2013/5155/>)

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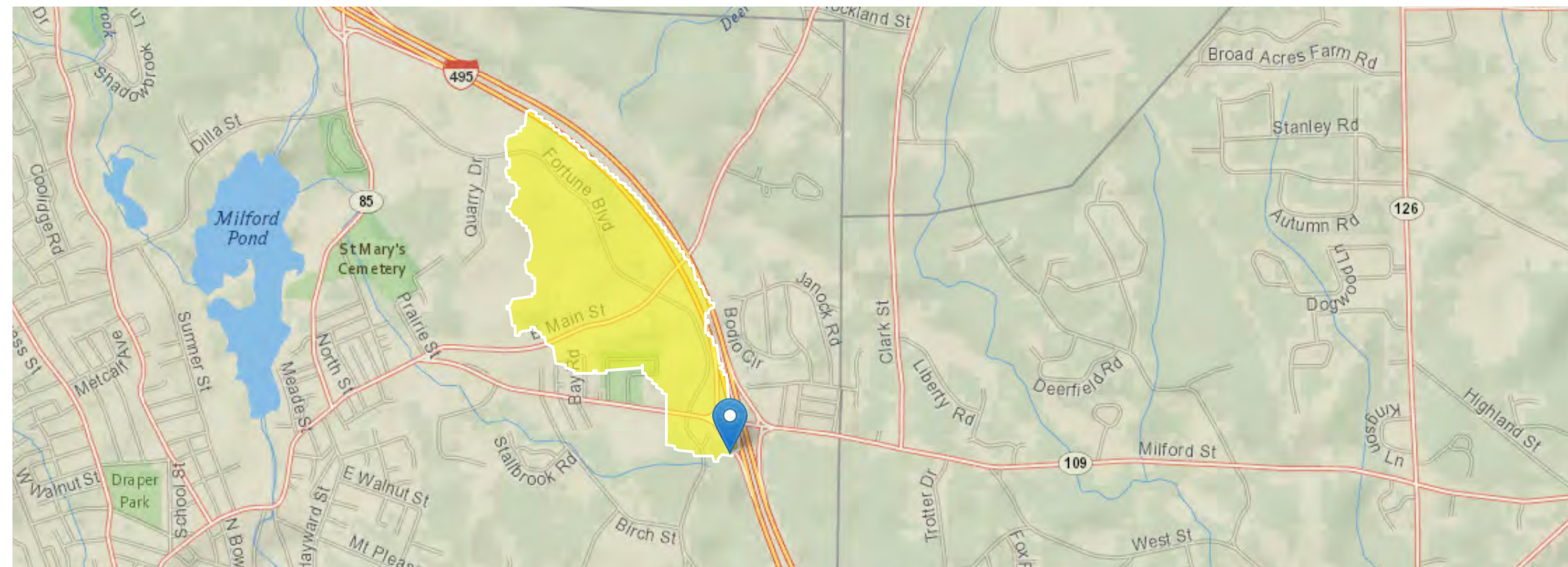
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USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.3.11

StreamStats Report

Region ID:
MA
Workspace ID:
MA20200424192727609000
Clicked Point (Latitude, Longitude):
42.14597, -71.48508
Time:
2020-04-24 15:27:43 -0400



Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.4	square miles
DRFTPERSTR	Area of stratified drift per unit of stream length	0.1	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
BSLDEM250	Mean basin slope computed from 1:250K DEM	2.978	percent
PCTSDNGRV	Percentage of land surface underlain by sand and gravel deposits	24.88	percent
FOREST	Percentage of area covered by forest	25.48	percent
BSLDEM10M	Mean basin slope computed from 10 m DEM	5.592	percent
ELEV	Mean Basin Elevation	306	feet
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	0.02	percent

Flow-Duration Statistics Parameters ^[Statewide Low Flow WRR00 4135]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	0.1	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	2.978	percent	0.32	24.6

Flow-Duration Statistics Disclaimers^[Statewide Low Flow WRR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Flow-Duration Statistics Flow Report^[Statewide Low Flow WRR00 4135]

Statistic	Value	Unit
50 Percent Duration	0.375	ft ³ /s
60 Percent Duration	0.239	ft ³ /s
70 Percent Duration	0.128	ft ³ /s
75 Percent Duration	0.0944	ft ³ /s
80 Percent Duration	0.0775	ft ³ /s
85 Percent Duration	0.0539	ft ³ /s
90 Percent Duration	0.0386	ft ³ /s
95 Percent Duration	0.0202	ft ³ /s
98 Percent Duration	0.0123	ft ³ /s
99 Percent Duration	0.00833	ft ³ /s

Flow-Duration Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

Low-Flow Statistics Parameters ^[Statewide Low Flow WRR00 4135]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	2.978	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.1	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

Low-Flow Statistics Disclaimers^[Statewide Low Flow WRR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report^[Statewide Low Flow WRR00 4135]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0208	ft ³ /s
7 Day 10 Year Low Flow	0.00718	ft ³ /s

Low-Flow Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

August Flow-Duration Statistics Parameters ^[Statewide Low Flow WRR00 4135]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	2.978	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.1	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

August Flow-Duration Statistics Disclaimers^[Statewide Low Flow WRR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

August Flow-Duration Statistics Flow Report^[Statewide Low Flow WRR00 4135]

Statistic	Value	Unit
August 50 Percent Duration	0.0567	ft ³ /s

August Flow-Duration Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

Probability Statistics Parameters^(Perennial Flow Probability)

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	0.01	1.99
PCTSNDGRV	Percent Underlain By Sand And Gravel	24.88	percent	0	100
FOREST	Percent Forest	25.48	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

Probability Statistics Flow Report^(Perennial Flow Probability)

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PC
Probability Stream Flowing Perennially	0.83	dim	71

Probability Statistics Citations

Bent, G.C., and Steeves, P.A.,2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006–5031, 107 p. (http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf)

Bankfull Statistics Parameters^(Bankfull Statewide SIR2013 5155)

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	5.592	percent	2.2	23.9

Bankfull Statistics Disclaimers^(Bankfull Statewide SIR2013 5155)

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Bankfull Statistics Flow Report^(Bankfull Statewide SIR2013 5155)

Statistic	Value	Unit
Bankfull Width	10.1	ft
Bankfull Depth	0.706	ft
Bankfull Area	6.99	ft^2
Bankfull Streamflow	15.4	ft^3/s

Bankfull Statistics Citations

Bent, G.C., and Waite, A.M.,2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013–5155, 62 p., (<http://pubs.usgs.gov/sir/2013/5155/>)

Peak-Flow Statistics Parameters^(Peak Statewide 2016 5156)

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	0.16	512
ELEV	Mean Basin Elevation	306	feet	80.6	1948
LC06STOR	Percent Storage from NLCD2006	0.02	percent	0	32.3

Peak-Flow Statistics Flow Report^(Peak Statewide 2016 5156)

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu	SEp
2 Year Peak Flood	23.3	ft^3/s	11.7	46.2	42.3
5 Year Peak Flood	39.5	ft^3/s	19.6	79.6	43.4
10 Year Peak Flood	52.6	ft^3/s	25.5	109	44.7
25 Year Peak Flood	72	ft^3/s	33.6	154	47.1
50 Year Peak Flood	88.3	ft^3/s	39.8	196	49.4
100 Year Peak Flood	106	ft^3/s	46.2	242	51.8
200 Year Peak Flood	125	ft^3/s	52.9	295	54.1
500 Year Peak Flood	153	ft^3/s	61.6	379	57.6

Peak-Flow Statistics Citations

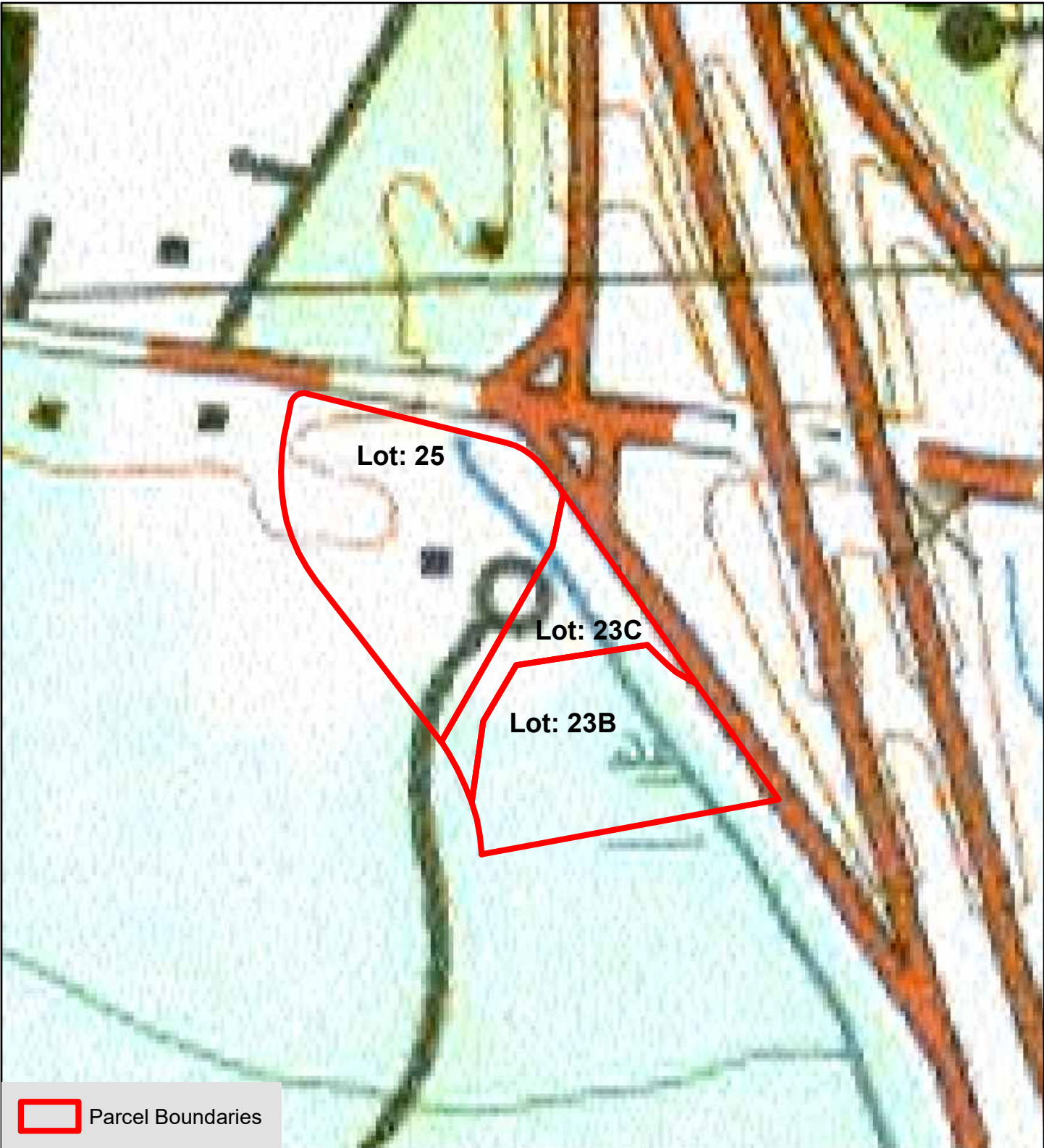
Zarriello, P.J.,2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016–5156, 99 p. (<https://dx.doi.org/10.3133/sir20165156>)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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Application Version: 4.3.11



Lot: 25

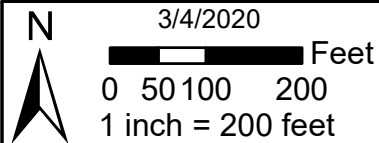
Lot: 23C

Lot: 23B

 Parcel Boundaries

USGS of Site

Beaver Street - Milford, MA
(Map: 44, Lot: 25, 23C, 23B)



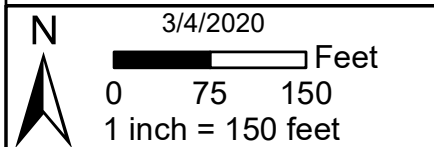
GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"





Orthoview of Site

Beaver Street - Milford, MA
(Map: 44, Lot: 25, 23C, 23B)



GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"

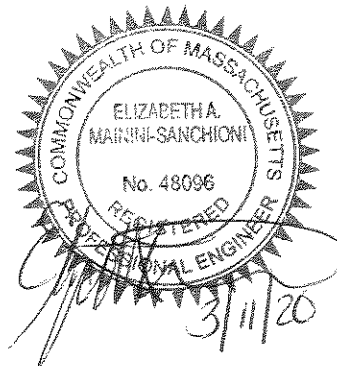


Stormwater Report
for
“495 Transportation Terminal II”
Milford, MA

Date: March 2, 2020

Prepared By:
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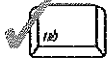
**Guerriere &
Halnon, Inc.**
ENGINEERING & LAND SURVEYING



Checklist for Stormwater Report

A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

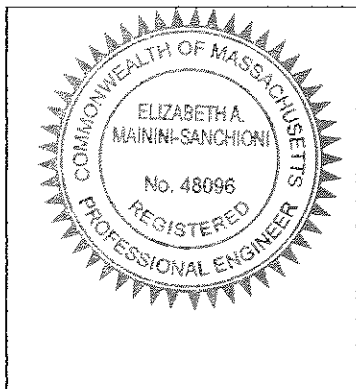
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

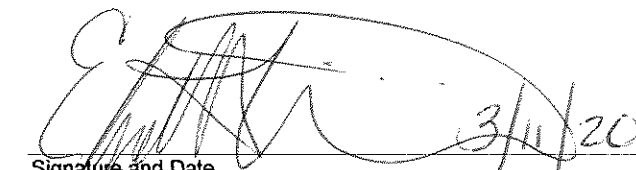
A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature




Signature and Date 3/11/20

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development
- Redevelopment
- Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
 - Credit 1
 - Credit 2
 - Credit 3
- Use of "country drainage" versus curb and gutter conveyance and pipe
- Bioretention Cells (includes Rain Gardens)
- Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- Treebox Filter
- Water Quality Swale
- Grass Channel
- Green Roof
- Other (describe): _____

Standard 1: No New Untreated Discharges

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- Soil Analysis provided.
- Required Recharge Volume calculation provided.
- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - Static
 - Simple Dynamic
 - Dynamic Field¹
- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - Site is comprised solely of C and D soils and/or bedrock at the land surface
 - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - Solid Waste Landfill pursuant to 310 CMR 19.000
 - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - is within the Zone II or Interim Wellhead Protection Area
 - is near or to other critical areas
 - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - involves runoff from land uses with higher potential pollutant loads.
 - The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

- The BMP is sized (and calculations provided) based on:
 - The ½" or 1" Water Quality Volume or
 - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does **not** cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - Limited Project
 - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - Bike Path and/or Foot Path
 - Redevelopment Project
 - Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has *not* been included in the Stormwater Report but will be submitted *before* land disturbance begins.
- The project is *not* covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - Name of the stormwater management system owners;
 - Party responsible for operation and maintenance;
 - Schedule for implementation of routine and non-routine maintenance tasks;
 - Plan showing the location of all stormwater BMPs maintenance access areas;
 - Description and delineation of public safety features;
 - Estimated operation and maintenance budget; and
 - Operation and Maintenance Log Form.
- The responsible party is *not* the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached;
- NO Illicit Discharge Compliance Statement is attached but will be submitted *prior to* the discharge of any stormwater to post-construction BMPs.

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Stormwater Report
495 Transportation Terminal II
Milford, MA

SITE LOCATION & DESCRIPTION

This report was prepared on behalf of the property owner Route 85 Realty Corp. The project site is located on the east side of Beaver Street near its intersection with Route 109 in Milford, MA. The property is approximately 5.65 acres that is bordered on the west by Beaver Street, on the south by Town of Milford property, on the east by Route 495 and to the north, by Route 109. The site contains an existing abandoned residential dwelling surrounded by grassed areas, and the discontinued Old Beaver Street.

PROJECT DESCRIPTION

The owner is proposing to construct a Transportation Terminal for the purpose of parking 430 vans for the purpose of daily use for deliveries from the Amazon Facility on Industrial Road. The project consists of the development of approximately 3.42 acres of the site as paved parking, stormwater structures and lighting for the parking lot.

DESCRIPTION OF EXISTING DRAINAGE

The runoff from the site currently flows overland to the large wetlands area to the south.

DESCRIPTION OF PROPOSED DRAINAGE FACILITIES

The runoff generated from the proposed development will be collected in a catch basin to drain manhole system, using HDPE pipe. A proposed 414-unit StormTech Chamber detention system will be constructed to attenuate the peak flows for the 2, 10, and 100-year storm events. Static recharge for the site will be provided in the area below the structure outlet invert. T.S.S. removal will occur within the hydrodynamic separator prior to discharged to the infiltration basin.

This report documents design compliance with the applicable sections of the Massachusetts Stormwater Management Standards 1-10.

Stormwater Design Parameter:

The stormwater management system was designed to control the post-development rate of peak rainfall runoff from the site by keeping it below the post-development peak rate of rainfall runoff as stated as the objective in the Massachusetts Stormwater Handbook. These calculations were performed using the HydroCAD hydraulic program, developed by applied Microcomputer System. The HydroCAD software is based upon the Soil Conservation Service, “Technical Release 55 – Urban Hydrology for Small Watersheds” and is generally accepted industry methodology.

The analysis was performed for the 2-year, 10-year, and 100-year 24-hour storm events.

The following data was required for input:

- Watershed Area: Areas of each watershed were calculated and expressed in square feet for these calculations.
- SCS Curve Number (Cn): Based on the cover type and hydrologic soil group, a weighted curve number (CN) was determined for each of the existing watersheds utilizing Table 2-2a- *Runoff Curve Numbers For Urban Areas* and *Worksheet 2, Runoff Curve Number and Runoff* from the Soil Conservation Service Technical Release 55 – Urban Hydrology for Small Watersheds.
- Time of Concentration, Tc (Minutes): The time of concentration for each watershed was determined by finding the time necessary for runoff to travel from the hydraulically most distant point in the watershed to the point of concentration. For the proposed conditions the minimum time of 6 minutes was used for runoff to reach the most distant catch basin.
- SCS 24-Hour Storm Type: For the greater New England region, a Type III storm rainfall distribution is recommended for drainage calculations and was used for this project.
- Rainfall Precipitation: Rainfall precipitations used the HydroCad TP-40-Rain for Worcester County for the 2, 10, and 100-year storm events and are as follows:

2-year storm event: 3.2 inches
10-year storm event: 4.7 inches
100-year storm event: 6.8 inches

An on-site conventional storm drainage collection system is designed based on the “Rational Method” using Manning’s equation to carry a minimum 25-year storm event without surcharge (See Pipe Sizing Attachments). The proposed drainage pipes will be High Density Polyethylene Pipe.

Standard 1: No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

All Paved area runoff will sheet flow across the pavement areas, accumulate into hooded catch basins, connect with drain pipe to a hydrodynamic separator, which discharges to the StormTeeh detention structure. The outlet pipe will discharge to an armored riprap slope to prevent erosion. No new untreated stormwater discharges are proposed.

Standard 2: Stormwater management systems shall be designed so that the post-development peak discharge rates do not exceed pre-development peak discharge rates.

Stormwater Report
 495 Transportation Terminal II
 Milford, MA

To meet Standard 2, the post-development peak discharge rate must be equal to or less than pre-development rates to prevent storm damage and downstream and offsite flooding from the 2-year thru and 100-year 24-hour storm events.

Peak discharge rates were calculated and evaluated at the same locations – at the wetland system, on the easterly side of the development.

In summary of the attached drainage analysis (HydroCAD), the peak discharge rates leaving the point of evaluation in cubic feet per second (cfs) are as follows;

Storm Events	Run off		
	Pre (cfs)	Post (cfs)	Change (cfs)
2-year	0.72	0.01	-0.71
10-year	2.45	1.56	-0.83
100-year	6.37	6.13	-0.24

Standard 3: Loss of annual recharge to ground water shall be eliminated or minimized through the use of environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post- development site shall approximate the annual recharge from pre-development conditions based on soil type. This standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

Hydrologic Group	Volume to Recharge x Total Impervious Area
A	0.60 inches of runoff
B	0.35 inches of runoff
C	0.25 inches of runoff
D	0.10 inches of runoff

The required volume of recharge for post-development conditions is calculated as follows;

Proposed Increase to Impervious Area: 3.42 acres (148,975 sf)

Required Recharge Volume

$0.35'' \times 1' / 12'' \times 74,488 \text{ sf} = 2,173 \text{ cf}$ (B soils)

$0.60'' \times 1' / 12'' \times 74,487 \text{ sf} = 3,724 \text{ cf}$ (A soils)

Total Recharge Volume = 5,897 cf.

StormTech

Total storage volume provided below overflow outlet invert @ 250.90= **23,292 cf**

Soils

Soils underlying the site are defined as map unit 260B Sudbury fine sandy loam, hydrologic group B for 50% of the site, and Merrimac fine sandy loam, hydrologic soil group A for 50% of the site. These determinations have been made based on Web Soil Survey USDA/NRCS Soil Map. The recharge under the StormTech Chambers infiltration design is based on a calculation of both the A and B soil types. Rawls Rates are 1.02 in/hr and 2.41 in/hr.

Calculations show that during a 100-year storm event, the StormTech System will completely dewater within approximately 17.5 hours (See Drawdown calculations in the appendix) which is in compliance with the maximum dewatering time of 72 hours.

Standard 4: Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This standard is met when:

- a) ***Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained;***
- b) ***Structural stormwater best management practices are sized to capture the required water quality volume as determined in accordance with the Massachusetts Stormwater Handbook; and***
- c) ***Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.***

The Water Quality Volume requiring 80% TSS removal, is calculated as follows:

The required water quality volume is based on 1.0". The water quality volume equals 1.0 inches of runoff times the increased impervious area of the post-development site.

Proposed Impervious Area
Total Site Impervious Area = 148,975 sf
Impervious area to be treated = 148,975 sf

Total volume to be treated:
 $1.0" \times 1\frac{1}{12}" \times 148,975 \text{ sf} = \mathbf{12,414 \text{ cf Water Quality Volume Required}}$

Provided Water Quality Volume:

All stormwater flows through the catch basins, hydrodynamic separators and infiltration structures with an infiltration volume of 23,292 cf.

See TSS Removal Calculations in Attachment Section.

Standard 4: requires the development and implementation of suitable practices for source control and pollution prevention. These measures must be identified in a long-term pollution prevention plan.

The long-term pollution prevention plan is incorporated into the Operation and Maintenance Plan required by Standard 9.

Stormwater Report
495 Transportation Terminal II
Milford, MA

Standard 5: For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable.

The proposed project is a use with higher potential pollutant loads.

Standard 6: Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply and stormwater discharges near or to any other critical area require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook.

The subject property does not discharge stormwater within the Zone II of a public water supply.

Standard 7: A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable:

This Site is not a redevelopment project.

Standard 8: A plan to control construction-related impacts, including erosion, sedimentation, and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

During land disturbance and construction activities, project proponents must implement controls that prevent erosion, control sediment movement, and stabilize exposed soils to prevent pollutants from moving offsite or entering wetlands or waters. Land disturbance activities include demolition, construction, clearing, excavation, grading, filling, and reconstruction.

Construction Period Pollution Prevention Plan and Erosion and Sedimentation Control.
EPA NPDES – Storm Water Pollution Prevention Plan (SWPPP)

A. Names of Persons or Entities Responsible for Plan Compliance

John Nenart
Route 85 Realty Corp.
P.O. Box 444
Mendon, MA 01756
Tel : 508-422-1050
johnn@imperialcars.com

B. Construction Period Pollution Prevention Measures

1. Inventory materials to be present on-site during construction.
2. Train employees and subcontractors in prevention and clean up procedures.
3. All materials stored on site will be stored in their appropriate containers and if possible, under a roof or covered.
4. Follow manufacturer's recommendation for disposal of used containers.
5. Store only enough products on site to do the job.

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Milford, MA

6. On site equipment, fueling and maintenance measures:
 - a. Inspect on-site vehicles and equipment daily for leaks.
 - b. Conduct all vehicle and equipment maintenance and refueling in front of building, away from storm drains and Wetlands.
 - c. Perform major repairs and maintenance off site.
 - d. Use drip pans, drip cloths or absorbent pads when replacing spent fuels.
 - e. Collect spent fuels and remove from site, per Local and State regulations.
 - f. Maintain a clean construction entrance; install a crushed stone apron where truck traffic is frequent to reduce soil compaction constant sweeping is required and limit tracking of sediment into streets, sweeping street when silt is observed on street.
 7. A temporary concrete washout station and equipment wash station shall be located on the site. Concrete washout station and equipment wash station shall not be within the 100' wetland buffer. Areas shall be surrounded with a silt fence to contain materials and provide ease of cleanup.
 8. Stock pile materials, and maintain Erosion Control around the materials where it can easily be accessed. Maintain easy access to clean up materials to include brooms, mops, rags gloves, goggles, sand, sawdust, plastic and metal trash containers.
 9. Clean up spills.
 - a. Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (sawdust, cat litter and/or rags and absorbent pads).
 - b. Sweep up dry materials immediately. Never wash them away or bury them.
 - c. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil in a certified container and notify a certified hauler for removal.
 - d. Report significant spills to the Fire Department.
 10. It is the responsibility of the site superintendent or employees designated by the Applicant to inspect erosion control and repair as needed, also to inspect all on site vehicles for leaks and check all containers on site that may contain hazardous materials daily.
- C. Site Development Plans
1. See Site Plan set "495 Transportation Terminal II", Milford, Massachusetts" dated March 2, 2020, prepared by Guerriere & Halnon, Inc.
- D. Construction Erosion and Sedimentation Control Plan;
1. See Site Plan set "495 Transportation Terminal II, Milford, Massachusetts" dated , March 2, 2020 prepared by Guerriere & Halnon, Inc.
- E. Plans
1. Construction Sequencing Plan
 - a. A NPDES NOI shall be filed with the EPA.
 - b. Record Order of Conditions - The site superintendent shall be aware of all the Conditions contained within the Order including inspection schedules.
 - c. Install DEP File # Sign.
 - d. Prior to any work on the site including tree/brush clearing, the approved limit of clearing as well as the location of the proposed erosion control devices (such as silt fence/straw bales, etc.) must be staked on the ground under the direction of a Massachusetts registered Professional Land Surveyor.
 - e. Install erosion control barrier at locations depicted on the plans.

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- f. Erosion control to be inspected by either the design engineer (or agent) or an erosion control monitor appointed by the Town of Milford, MA.
 - g. Erosion control devices shall be stored on the site to be used in case of an emergency (large storm).
 - h. Perform tree/brush removal.
 - i. Strip off top and subsoil. Stockpile material to be reused away from any drainage inlet or protected wetland areas, remove excess material from the site. Install and maintain erosion control barrier around stockpile.
 - j. Rough grade site, maintaining temporary low areas/sediment traps for sediment accumulation and away from the wetlands and prevent sedimentation from migrating from the site.
 - k. Construct detention basin, outlets/outfalls and install pipes, manholes and catch basins. Stabilize side slopes with loam, seed and mulch.
 - l. Install underground utilities; protect all open drainage structures with erosion/siltation control devices, and rope off any areas susceptible to heavy vehicle damage.
 - m. Prepare compacted parking lot base.
 - n. Loam and seed (mulch as required) disturbed areas of site other than immediately adjacent to the parking lot.
 - o. Install binder course of bituminous asphalt.
 - p. Install curbing and final pavement wearing course.
 - q. Finish grade - loam and seed and landscaping.
 - r. Maintain all erosion control devices until site is stabilized, final inspections are performed, and a Certificate of Compliance is issued by the Conservation Commission.
 - s. The Contractor shall be responsible to schedule any required inspections of his/her work.
2. Construction Waste Management Plan
- a. Dumpster for trash and bulk waste collection shall be provided separately for construction.
 - b. Recycle materials whenever possible (paper, plaster cardboard, metal cans). Separate containers for material are recommended.
 - c. Segregate and provide containers for disposal options for waste.
 - d. Do not bury waste and debris on site.
 - e. Certified haulers will be hired to remove the dumpster container waste as needed. Recycling products will also be removed off site weekly.
- F. Operation and Maintenance of Erosion and Sedimentation Controls
The operation and maintenance of sedimentation control shall be the responsibility of the contractor. The inspection and maintenance of the storm water component shall be performed as noted below. The contractor shall, at all times have erosion control in place. The contractor, based on future weather reports shall prepare and inspect all erosion control devices; cleaning, repairing and upgrading is a priority so that the devices perform as per design. Inspect the site during rain events. **Don't stay away from the site.** At a minimum, there should be inspection to assure the devices are not clogged or plugged, or that devices have not been destroyed or damaged during the rain event. After a storm event inspection is required to clean and repair any damage components. Immediate repair is required.
- G. Inspection and Maintenance Schedules

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Milford, MA

1. Inspection must be conducted at least once every 7 days and within 24 hours prior to and after the end of a storm event 0.5 inches or greater.
2. Inspection frequency can be reduced to once a month if:
 - a. The site is temporarily stabilized.
 - b. Runoff is unlikely due to winter conditions, when site is covered with snow or ice.
3. Inspections must be conducted by qualified personnel, "qualified personnel" means a person knowledgeable in the principles and practice of erosion and sediment controls and who possess the skills to assess the conditions and take measures to maintain and ensure proper operation, also to conclude if the erosion control methods selected are effective.
4. For each inspection, the inspection report must include:
 - a. The inspection date.
 - b. Names, titles of personnel making the inspection.
 - c. Weather information for the period since the last inspection.
 - d. Weather information at the time of the inspection.
 - e. Locations of discharges of sediment from the site, if any.
 - f. Locations of BMP's that need to be maintained.
 - g. Locations where additional BMP's may be required.
 - h. Corrective action required or any changes to the SWPPP that may be necessary.
5. Qualified personnel shall inspect the following in-place work;

Inspection Schedule:

Erosion Control	Weekly
Catch Basins	Weekly
Temporary Sedimentation Traps/Basins	Weekly

Please Note: Special inspections shall also be made after a significant rainfall event.

Maintenance Schedule

Erosion Control Devices Failure	Immediately
Temporary Sedimentation Traps/Basins	As needed

Please Note: Special maintenance shall also be made after a significant rainfall event.

H. Inspection and Maintenance Log Form.

1. See Construction Phase Inspection and Maintenance Form attached

Standard 9: A Long –Term Operation and Maintenance (O&M) Plan shall be developed and implemented to ensure that storm water management systems function as designed.

The following shall serve as the (O&M) Plan required by Standard 9, as well as the Long-Term Pollution Prevention Plan required by Standard 4.

Stormwater Report
495 Transportation Terminal II
Milford, MA

A. Names of Persons or Entities Responsible for Plan Compliance;

John Nenart
Route 85 Realty Corp.
P.O. Box 444
Mendon, MA 01756
Tel: 508-422-1050
Email: johnn@imperialcars.com

B. Good housekeeping practices

1. Maintain site, landscaping and vegetation.
2. Sweep and pick up litter on pavements and grounds.
3. Deliveries shall be monitored by owners or representative to ensure that if any spillage occurs, it shall be contained and cleaned up immediately.
4. Maintain pavement and curbing in good repair.

C. Requirements for routine inspections and maintenance of stormwater BMPs

1. Plans: The storm water Operation and Maintenance Plan shall consist of all Plans, documents and all local state and federal approvals as required for the subject property.
2. Record Keeping:
 - a. Maintain a log of all operation and maintenance activities for at least three years following construction, including inspections, repairs, replacement and disposal (for disposal, the log shall indicate the type of material and the disposal location);
3. Descriptions and Designs: The Best Management Practices (BMP) incorporated into the design include the following;
 - a. Deep sump catch basins with hoods installed to promote TSS Removal of solids and control floatable pollutants. This BMP has a design rate of 25% TSS Removal.
 - b. Hydrodynamic Separator - installed to promote TSS Removal of solids. This BMP has a design rate of 50% TSS Removal.
 - c. Infiltration Basin –has a design rate of 80% TSS Removal. Refer to TSS Removal Worksheet included in the Attachments.
 - d. Spill Containment Kit to contain and clean-up spills that could occur on site.
4. BMP Maintenance: After construction it is the responsibility of the owner to perform maintenance. The cleaning of the components of the stormwater management system shall generally be as follows:
 - a. Pavement: The owner shall keep the pavement swept with a mechanical sweeper or hand swept semi-annually at a minimum.
 - b. Catch Basins: Shall be cleaned by excavating, pumping or vacuuming. The sediment shall be disposed of off-site by the Owner. Inspect quarterly, remove silt when ¼ full.
 - c. Hydrodynamic Separator shall be cleaned by pumping. The sediment shall be disposed of off-site by the Owner. Inspect quarterly, remove silt when ¼ full.
 - d. StormTech Chambers: Inspect for proper function after every major storm event during the first 3 months of operation, inspect/remove debris twice per year afterward.
5. Access Provisions: All of the components of the storm water system will be accessible by the Owner

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D. Spill prevention and response plans

1. Train employees and subcontractors in prevention and clean up procedures.
2. All materials stored on site will be stored in their appropriate containers under a roof or in the approved underground storage tanks.
3. Follow manufacturer's recommendation for disposal of used containers.
4. On site equipment, fueling and maintenance measures:
 - a. Inspect on-site vehicles and equipment daily for leaks.
 - b. Conduct all vehicle and equipment maintenance off Site and refueling in one location, away from storm drains and wetlands.
5. Clean up spills.
 - a. Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry clean-up methods (sawdust, cat litter and/or rags and absorbent pads).
 - b. Sweep up dry materials immediately. Never wash them away or bury them.
 - c. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
 - d. Report significant spills to the Fire Department, Conservation Commission and Board of Health.

E. Provisions for maintenance of lawns, gardens, and other landscaped areas

Dispose of clippings outside of the 100-foot buffer zone to the adjacent wetland and away from storm drainage and use 0% phosphate fertilizer.

F. Requirements for storage and use of herbicides, and pesticides

The application of herbicides or pesticides will be done by professional certified contractor.

G. Provisions for solid waste management

1. Waste Management Plan

- a. Recycle materials whenever possible (paper, plaster cardboard, metal cans). Separate containers for material are recommended.
- b. Do not bury waste and debris on site.
- c. Certified haulers will be hired to remove the dumpster container waste as needed. Recycling products will also be removed off site weekly.

H. Snow disposal and plowing plans

Snow storage is adequate around the site for large storm events, see site plan

I. Winter Road Salt and/or Sand Use and Storage restrictions

No sand, salt, or chemicals for de-icing will be stored outside.

J. Pavement sweeping schedules

Sweeping, the act of cleaning pavement can be done by mechanical sweepers, vacuum sweeper or hand sweeper. The quantity of sand is a direct correlation with the treatment of ice and snow and the types of chemicals and spreaders that are being used on site to manage snow. If a liquid de-icer such as calcium chloride is used as a pretreatment to new events the amount of sand is minimized. Sweeping for this site should be done semi-annually at a minimum. Collecting the particulate before it enters the catch basins is cheaper and more environmentally friendly than in a catch basin mixing with oils and greases in the surface water runoff in catch basins.

K. Provisions for prevention of illicit discharges to the stormwater management system

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The discharge into the stormwater system is not being violated, see attachment for illicit discharges compliance.

- L. Training the staff or personnel involved with implementing Long-Term Pollution Prevention Plan
The owner shall develop policies and procedures for containing the illicit spilling of oils, soda, beer, paper and litter. These wastes provide a degrading of the water quality. The placement of signs and trash barrels with lids around the site would contribute to a clean water quality site condition.
- M. List of Emergency contacts for implementing Long-Term Pollution Prevention Plan:

John Nenart
Route 85 Realty Corp.
P.O. Box 444
Mendon, MA 01756
Tel: 508-422-1050
johnn@imperialcars.com

Standard 10: All illicit discharges to the stormwater management system are prohibited.

Standard 10 prohibits illicit discharges to stormwater management systems. The stormwater management system is the system for conveying, treating, and infiltrating stormwater on site, including stormwater best management practices and any pipes intended to transport stormwater to the ground water, a surface water, or municipal separate storm sewer system. Illicit discharges to the stormwater management system are discharges that are not entirely comprised of stormwater. Notwithstanding the foregoing, an illicit discharge does not include discharges from the following activities or facilities: firefighting, water line flushing, landscape irrigation, uncontaminated ground water, potable water sources, foundation drains, air conditioning condensation, footing drains, individual resident car washing, flows from riparian habitats and wetlands, dechlorinated water from swimming pools, water used for street washing and water used to clean residential buildings without detergents.

Attachment
Illicit Discharge Compliance Statement

It is the intent of the Applicant, John M. Nenart, Route 85 Realty Corp, P.O. Box 444, Mendon MA 01756, 508-422-1050, to control illicit disposal into the storm drainage system. There will be no connection to the storm water system to inadvertently direct other types of liquids, chemicals or solids into the storm drainage system. The Applicant will also promote a clean Green Environment by mitigating spills onto pavements; oils, soda, chemicals, pet waste, debris and litter.

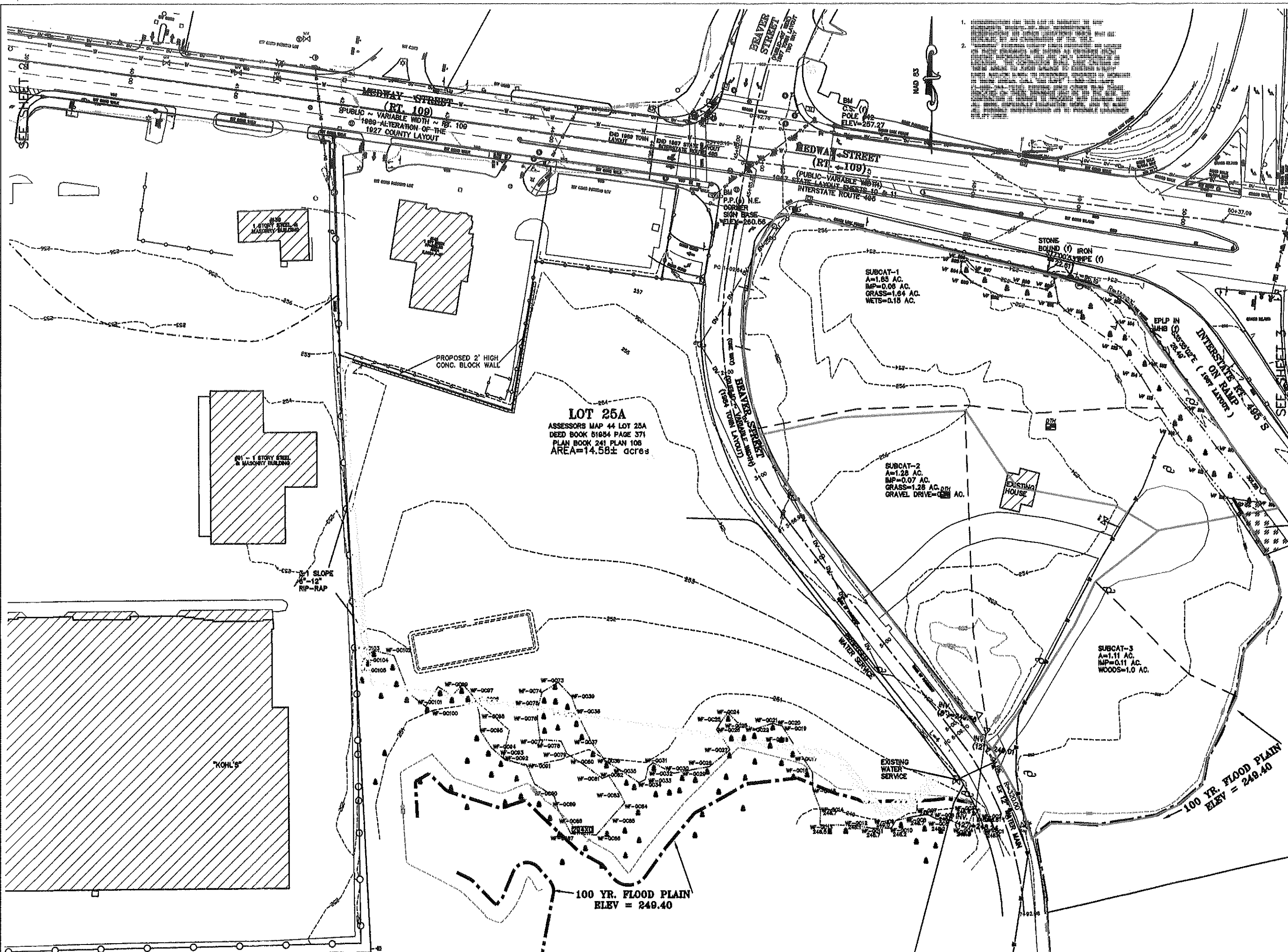
Respectfully Acknowledged,

John M. Nenart

John M. Nenart

Stormwater Report
495 Transportation Terminal II
Milford, MA

WATERSHED PLAN
Pre and Post Development Conditions



OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

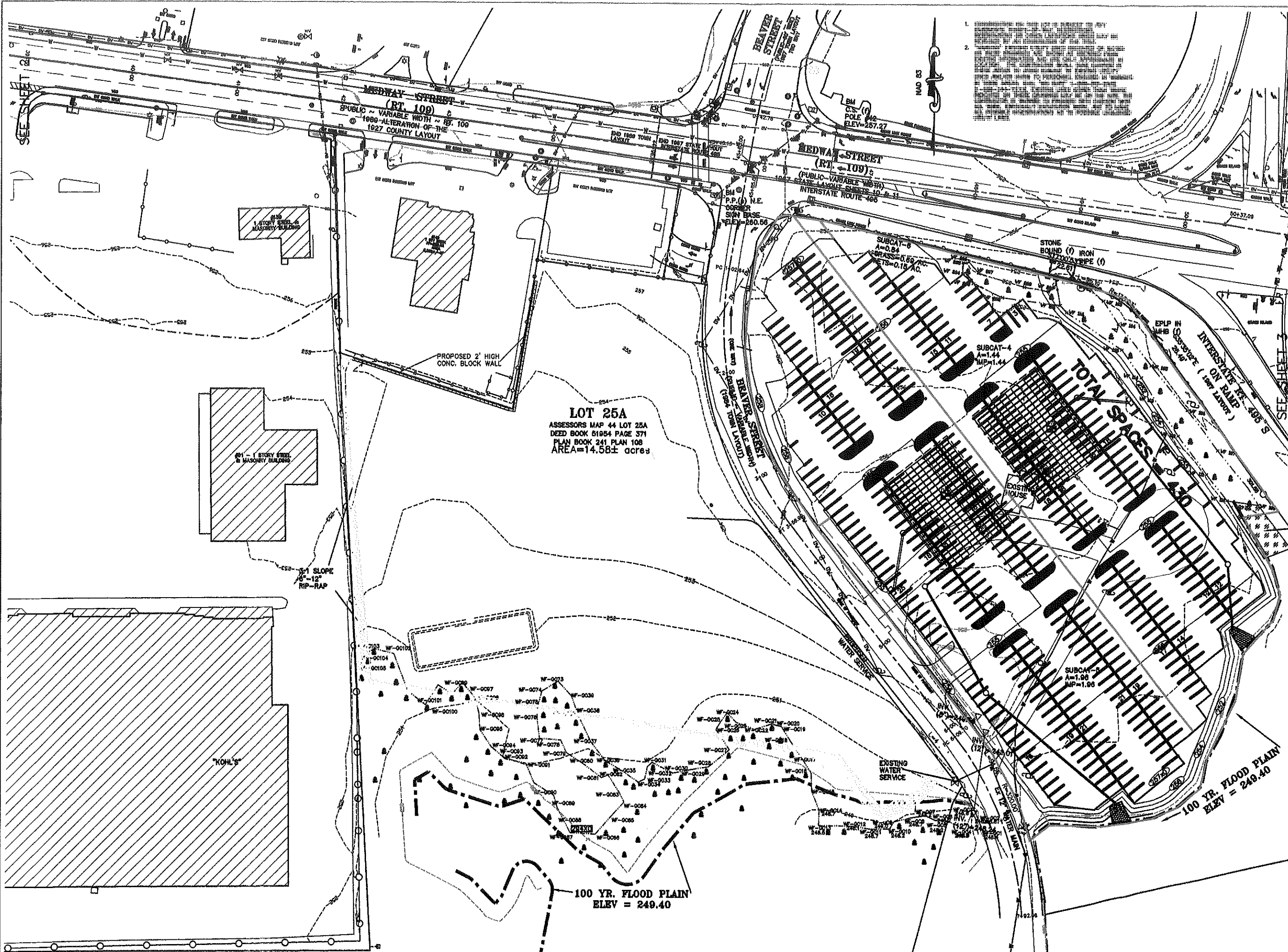
APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

26 BEAVER STREET
 PRE-DRAINAGE AREAS
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: JANUARY 15, 2020

#	DATE	DESCRIPTION	INI



Guerriere & Halon, Inc.
 Engineering & Land Surveying
 333 WEST STREET, MILFORD, MASS. 01757
 (508) 475-6830 FAX: (508) 473-8245
 www.guerrierehalon.com



LOT 25A
 ASSESSORS MAP 44 LOT 25A
 DEED BOOK 51954 PAGE 371
 PLAN BOOK 241 PLAN 108
 AREA=14.58± acres

1.	
2.	

OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

26 BEAVER STREET

POST DRAINAGE AREAS
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: JANUARY 15, 2020

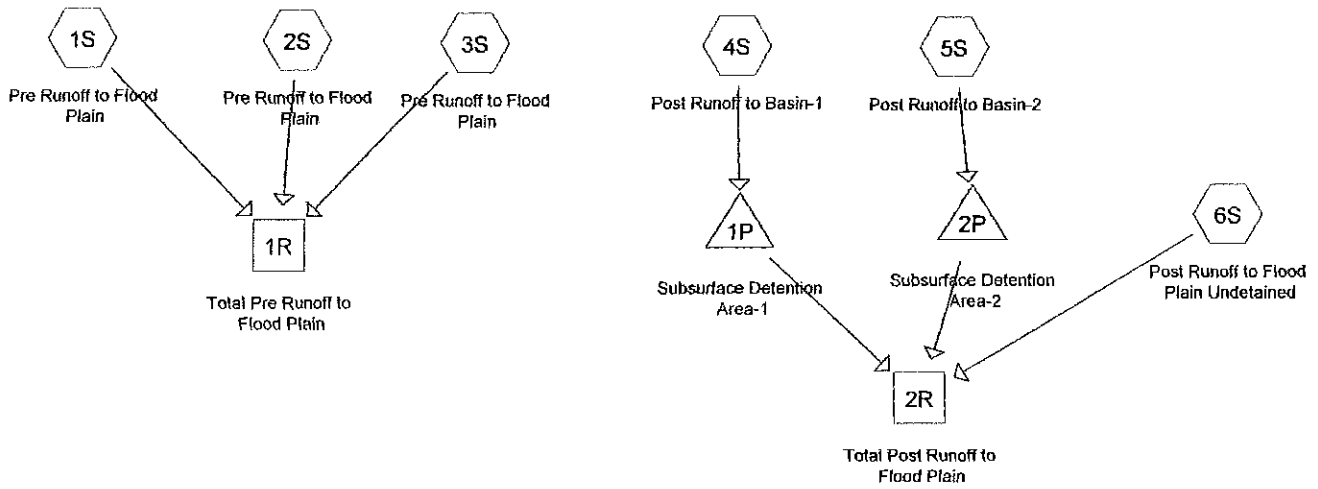
DATE	DESCRIPTION	INI

Guerriere & Halon, Inc.
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 333 WEST STREET, MILFORD, MASS. 01757
 (508) 473-6630 FAX: (508) 473-8243
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Stormwater Report
495 Transportation Terminal II
Milford, MA

DRAINAGE ANALYSIS

HydroCAD Calculations – Pre-Post Development Conditions 2, 10, 100-Year Storm Events



Routing Diagram for 2-24-20 26 BEAVER ST.
 Prepared by {enter your company name here}, Printed 3/2/2020
 HydroCAD® 10.00-16 s/n 01433 © 2015 HydroCAD Software Solutions LLC

PRE-DEVELOPMENT

2-YEAR STORM

Stormwater Report
495 Transportation Terminal II
Milford, MA

DRAINAGE ANALYSIS

Storm Drain Calculations – Rational Method and Catchment Area Calculation

495 TRANSPORTATION TERMINAL II

Weighted "c" Values

DA-1 A=1.96 ac. Imp.=1.96 ac. C = .9

DA-2 A=1.44 ac. Imp.=1.44 ac. C = .9

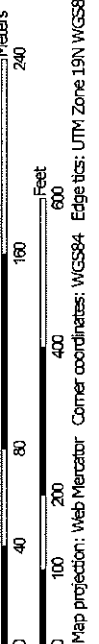
Stormwater Report
495 Transportation Terminal II
Milford, MA

USDA WEB SOIL SURVEY

Hydrologic Soil Group—Worcester County, Massachusetts, Southern Part
(Beaver Street & Rt. 109)



Map Scale: 1:2,980 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)	C
Area of Interest (AOI)	C/D
Area of Interest (AOI)	D
Area of Interest (AOI)	Not rated or not available
Soils	
Soil Rating Polygons	
A	
A/D	
B	
B/D	
C	
C/D	
D	
Not rated or not available	
Soil Rating Lines	
A	
A/D	
B	
B/D	
C	
C/D	
D	
Not rated or not available	
Soil Rating Points	
A	
A/D	
B	
B/D	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Worcester County, Massachusetts, Southern Part

Survey Area Data: Version 12, Sep 12, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 28, 2019—Aug 15, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3A	Scarboro and Walpole soils, 0 to 3 percent slopes	B/D	6.9	31.0%
51A	Swansea muck, 0 to 1 percent slopes	B/D	1.6	7.1%
254B	Merrimac fine sandy loam, 3 to 8 percent slopes	A	2.1	9.4%
260A	Sudbury fine sandy loam, 0 to 3 percent slopes	B	2.8	12.5%
260B	Sudbury fine sandy loam, 3 to 8 percent slopes	B	7.8	35.1%
625C	Hickley-Urban land complex, 0 to 15 percent slopes	A	0.7	3.2%
651	Udorthentis, smoothed	A	0.4	1.7%
Totals for Area of Interest			22.3	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Stormwater Report
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Milford, MA

DRAWDOWN CALCULATIONS (100-YR)

2-24-20 26 BEAVER ST.

Type III 24-hr 100-yr storm Rainfall=6.80"

Prepared by {enter your company name here}

Printed 3/2/2020

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Hydrograph for Pond 2P: Subsurface Detention Area-2

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
5.00	0.12	0	249.40	0.12	0.12	0.00
7.50	0.21	0	249.40	0.21	0.21	0.00
10.00	0.46	16	249.41	0.43	0.43	0.00
12.50	1.98	11,982	251.65	2.28	0.43	1.85
15.00	0.38	8,730	251.06	0.54	0.43	0.10
17.50	0.19	6,994	250.76	0.43	0.43	0.00
20.00	0.13	4,434	250.35	0.43	0.43	0.00
22.50	0.10	1,559	249.90	0.43	0.43	0.00
25.00	0.00	0	249.40	0.00	0.00	0.00
27.50	0.00	0	249.40	0.00	0.00	0.00
30.00	0.00	0	249.40	0.00	0.00	0.00
32.50	0.00	0	249.40	0.00	0.00	0.00
35.00	0.00	0	249.40	0.00	0.00	0.00
37.50	0.00	0	249.40	0.00	0.00	0.00
40.00	0.00	0	249.40	0.00	0.00	0.00
42.50	0.00	0	249.40	0.00	0.00	0.00
45.00	0.00	0	249.40	0.00	0.00	0.00
47.50	0.00	0	249.40	0.00	0.00	0.00
50.00	0.00	0	249.40	0.00	0.00	0.00
52.50	0.00	0	249.40	0.00	0.00	0.00
55.00	0.00	0	249.40	0.00	0.00	0.00
57.50	0.00	0	249.40	0.00	0.00	0.00
60.00	0.00	0	249.40	0.00	0.00	0.00
62.50	0.00	0	249.40	0.00	0.00	0.00
65.00	0.00	0	249.40	0.00	0.00	0.00
67.50	0.00	0	249.40	0.00	0.00	0.00
70.00	0.00	0	249.40	0.00	0.00	0.00

2-24-20 26 BEAVER ST.

Type III 24-hr 100-yr storm Rainfall=6.80"

Prepared by {enter your company name here}

Printed 3/2/2020

HydroCAD® 10.00-16 s/n 01433 © 2015 HydroCAD Software Solutions LLC

Hydrograph for Pond 1P: Subsurface Detention Area-1

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
5.00	0.17	0	249.40	0.17	0.17	0.00
7.50	0.29	0	249.40	0.29	0.29	0.00
10.00	0.63	443	249.54	0.43	0.43	0.00
12.50	2.69	15,065	252.38	4.17	0.43	3.74
15.00	0.52	9,211	251.14	0.67	0.43	0.24
17.50	0.25	7,799	250.90	0.43	0.43	0.00
20.00	0.18	5,729	250.56	0.43	0.43	0.00
22.50	0.14	3,228	250.16	0.43	0.43	0.00
25.00	0.00	37	249.41	0.43	0.43	0.00
27.50	0.00	0	249.40	0.00	0.00	0.00
30.00	0.00	0	249.40	0.00	0.00	0.00
32.50	0.00	0	249.40	0.00	0.00	0.00
35.00	0.00	0	249.40	0.00	0.00	0.00
37.50	0.00	0	249.40	0.00	0.00	0.00
40.00	0.00	0	249.40	0.00	0.00	0.00
42.50	0.00	0	249.40	0.00	0.00	0.00
45.00	0.00	0	249.40	0.00	0.00	0.00
47.50	0.00	0	249.40	0.00	0.00	0.00
50.00	0.00	0	249.40	0.00	0.00	0.00
52.50	0.00	0	249.40	0.00	0.00	0.00
55.00	0.00	0	249.40	0.00	0.00	0.00
57.50	0.00	0	249.40	0.00	0.00	0.00
60.00	0.00	0	249.40	0.00	0.00	0.00
62.50	0.00	0	249.40	0.00	0.00	0.00
65.00	0.00	0	249.40	0.00	0.00	0.00
67.50	0.00	0	249.40	0.00	0.00	0.00
70.00	0.00	0	249.40	0.00	0.00	0.00

Stormwater Report
495 Transportation Terminal II
Milford, MA

TSS REMOVAL CALCULATIONS

INSTRUCTIONS:

1. Sheet is nonautomated. Print sheet and complete using hand calculations. Column A and B: See MassDEP Structural BMP Table
2. The calculations must be completed using the Column Headings specified in Chart and Not the Excel Column Headings
3. To complete Chart Column D, multiple Column B value within Row x Column C value within Row
4. To complete Chart Column E value, subtract Column D value within Row from Column C within Row
5. Total TSS Removal = Sum All Values in Column D

Location: 495 Transportation Terminal II, Milford, MA

A	B	C	D	E
BMP ¹	TSS Removal Rate ¹	Starting TSS Load*	Amount Removed (B*C)	Remaining Load (C-D)
Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
8' Diameter Barracuda	0.50	0.75	0.375	0.375
StormTech Chambers Infiltration	0.80	0.375	0.30	0.075

Separate Form Needs to be Completed for Each Outlet or BMP Train

Total TSS Removal = 93%

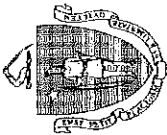
Project: G-8293
Prepared By: Robert Poxon
Date: 3/2/2020

*Equals remaining load from previous BMP (E) which enters the BMP

TSS Removal Calculation Worksheet

Stormwater Report
495 Transportation Terminal II
Milford, MA

SOIL LOGS



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

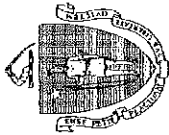
A. Facility Information

Owner Name _____
 Beaver St. & Rt 109
 Street Address _____ Map/Lot # _____

 City _____ State _____ Zip Code _____

B. Site Information

1. (Check one) New Construction Upgrade Repair
 2. Soil Survey Available? Yes No If yes: _____ WSS _____ 254B & 260B
 Source _____ Soil Map Unit _____
 Soil Name _____ Soil Limitations _____
 Soil Parent material _____ Landform _____
 3. Surficial Geological Report Available? Yes No If yes: _____ Year Published/Source _____ Map Unit _____
 Description of Geologic Map Unit: _____
 4. Flood Rate Insurance Map Within a regulatory floodway? Yes No
 5. Within a velocity zone? Yes No
 6. Within a Mapped Wetland Area? Yes No If yes, MassGIS Wetland Data Layer: _____ Wetland Type _____
 7. Current Water Resource Conditions (USGS): _____ Range: Above Normal Normal Below Normal
 8. Other references reviewed: _____ Month/Day/ Year _____



**Commonwealth of Massachusetts
City/Town of Milford**

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

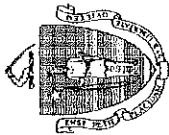
Deep Observation Hole Number: 1 Hole # _____ Date 2-26-20 Time 9:45 am Overcast Weather _____ Longitude: _____
 SFH - Rear/Side yards _____ N/A Surface Stones (e.g., cobbles, stones, boulders, etc.) _____ Slope (%) _____
 (e.g., woodland, agricultural field, vacant lot, etc.) _____

Description of Location: _____
 Soil Parent Material: _____ Landform _____ Position on Landscape (SU, SH, BS, FS, TS) _____
 Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ feet Other _____ feet
 Unsuitable Materials Present: Yes No Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock
 Groundwater Observed: Yes No If yes: _____ Depth Weeping from Pit _____ Depth Standing Water in Hole _____

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features		Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel			
0-12	A	LS	10 YR 3/2							
12-42	B	LS	7.5 Y 4/6							
42-144+	C	Fine LS	10 YR 6/1							

Additional Notes:
 Small percent of clay content within C layer



**Commonwealth of Massachusetts
City/Town of Milford**

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: 2 **Hole #** 2-26-20 **Date** 10:05 am **Time** Overcast **Weather** 0-3 **Longitude:**
Land Use: SFH - Rear/Side yards **Some grass / exposed top soil** N/A **Latitude**
 (e.g., woodland, agricultural field, vacant lot, etc.) **Vegetation** Surface Stones (e.g., cobbles, stones, boulders, etc.) **Slope (%)**

Description of Location: _____
Soil Parent Material: _____ **Landform** _____ **Position on Landscape (SU, SH, BS, FS, TS)**
Distances from: **Open Water Body** _____ **feet** **Drainage Way** _____ **feet** **Wetlands** _____ **feet**
Property Line _____ **feet** **Drinking Water Well** _____ **feet** **Other** _____ **feet**
Unsuitable Materials Present: Yes No **If Yes:** Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock
Groundwater Observed: Yes No **If yes:** _____ **Depth Weeping from Pit** _____ **Depth Standing Water in Hole** _____

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features		Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel			
0-6	a	LS	10 YR 3/2							
6-30	B	SL	10 YR 4/6							
30-48	B2	SL	10 YR 5/4							
48-144+	C	Fine LS	10 YR 6/1							

Additional Notes:
 Small percent of clay content within C layer



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method Used:

- | | | |
|---|------------------------------|----------------------------|
| <input type="checkbox"/> Depth observed standing water in observation hole | Obs. Hole #1
_____ inches | Obs. Hole #2
N/A inches |
| <input type="checkbox"/> Depth weeping from side of observation hole | _____ inches | N/A inches |
| <input type="checkbox"/> Depth to soil redoximorphic features (mottles) | _____ inches | N/A inches |
| <input type="checkbox"/> Depth to adjusted seasonal high groundwater (Sh)
(USGS methodology) | _____ inches | _____ inches |

Index Well Number _____

Reading Date _____

$$Sh = Sc - [Sr \times (OW_c - OW_{max}) / OW_r]$$

Obs. Hole/Well# _____ Sc _____ Sr _____ OW_c _____ OW_r _____ OW_{max} _____ Sh _____

2. Estimated Depth to High Groundwater: _____ inches

E. Depth of Pervious Material

1. Depth of Naturally Occurring Pervious Material

- a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil system? absorption
- Yes No
- b. If yes, at what depth was it observed (exclude A and O Horizons)?
- Upper boundary: 6 inches Lower boundary: 144+ inches
- Upper boundary: _____ inches Lower boundary: _____ inches
- c. If no, at what depth was impervious material observed? _____ inches

Stormwater Report
495 Transportation Terminal II
Milford, MA

SUPPLEMENT ATTACHMENTS

**495 TRANSPORTATION TERMINAL II
MENDON, MA
CONSTRUCTION PHASE INSPECTION AND MAINTENANCE LOG**

Date _____

Prev. Insp. Date: _____

Inspector: _____

Title: _____

Weather: _____

Weather Since Last Inspection _____

Erosion Control - Inspect Weekly

Comments:
Corrective measures taken and date

On Site Pavement Sweeping - Inspect Weekly

Comments:
Corrective measures taken and date

Catch Basins - Inspect Weekly

Comments:
Corrective measures taken and date

Stormceptor - Inspect Weekly

Comments:
Corrective measures taken and date

Temporary Sediment Traps/Basins - Inspect Weekly

Comments:
Corrective measures taken and date

**495 TRANSPORTATION TERMINAL II
MENDON, MA
CONSTRUCTION PHASE INSPECTION AND MAINTENANCE LOG**

Notify Conservation Commission RE Issues Effecting Resource Areas

Comments:
Corrective measures taken and date

Silt on Public Streets - Inspect Weekly

Comments:
Corrective measures taken and date

Stock Pile Materials - Ring with Haybales - Inspect Weekly

Comments:
Corrective measures taken and date

Any Fuel or Chemical Spill - Inspect Daily

Comments:
Corrective measures taken and date

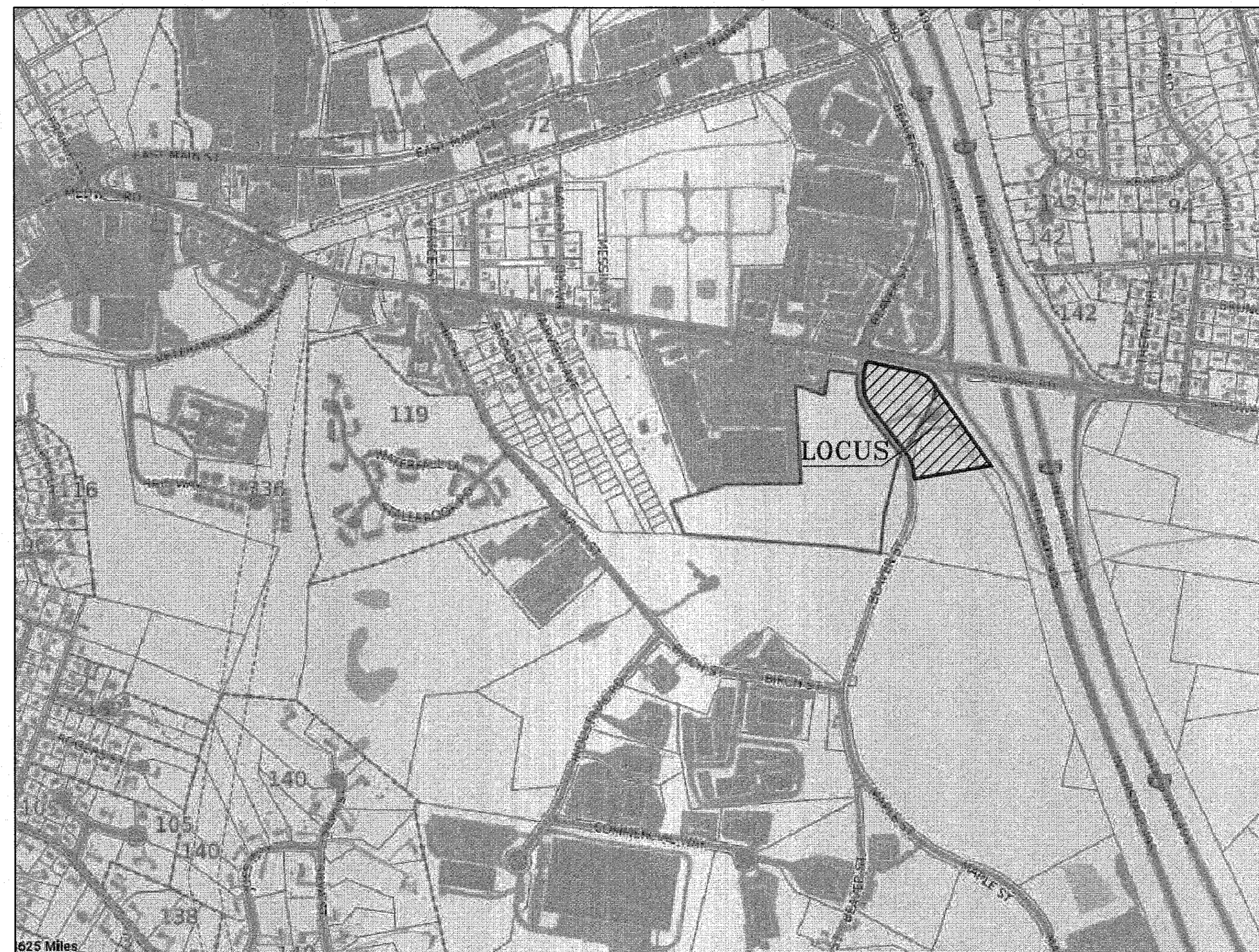
"495 TRANSPORTATION DEPOT II" TRANSPORTATION TERMINAL SITE PLAN 26 BEAVER STREET, MILFORD, MASSACHUSETTS

APPROVED DATE: _____
PLANNING BOARD

SIGNATURE DATE: _____

G-8293

DATE: MARCH 2, 2020
REV: APRIL 1, 2020
REV: JUNE 29, 2020
REV: SEPTEMBER 8, 2020



LOCUS MAP
500 FEET TO AN INCH

NOTE. STRIPING AND PARKING CONFIGURATION MAY BE ALTERED TO ACCOMMODATE LESSEE'S NEEDS TO ALLOW PARKING OF CARS, VANS, TUCKS TRAILERS AND TRACTOR TRAILERS.

ZONING TABLE

INTENSITY OF USE ZONE IB	EXISTING	PROPOSED
MIN. LOT REQUIREMENTS		
LOT AREA (S.F.)	80,000 S.F.	255,478± S.F. 255,478± S.F.
LOT WIDTH (FT)	250 FT.	725.46 FT. 725.46 FT.
FRONTAGE (FT)	0 FT.	737.90 FT. 737.90 FT.
MIN. YARD REQUIREMENTS		
FRONT YARD SETBACK (FT)	50 FT.	0 FT. 0 FT.
SIDE YARD SETBACK (FT)	25 FT.	0 FT. 0 FT.
REAR YARD SETBACK (FT)	30 FT.	0 FT. 0 FT.
MAXIMUM BUILDING SIZE		
BUILDING COVERAGE (% OF LOT)	35%	0% 0%
RATIO (FLOOR/LOT AREA)	.5	0 0
MINIMUM OPEN SPACE		
% OF LOT AREA	20%	99% 45%
HEIGHT REQUIREMENTS		
MAX. HEIGHT (FT)	60 FT.	0 FT. 0 FT.
MAX. NO. OF STORIES	5	0 0
PARKING REQUIREMENTS		
TOTAL PARKING SPACES 9'X18'	9	0 423
HANDICAPPED PARKING 8'X18'	1	0 0
INTERIOR LANDSCAPING ISLANDS		
TOTAL NO. ISLANDS REQUIRED	16	0 0
150 S.F. PER ISLAND	2,400 S.F.	0 4,883 S.F.**

** PROVIDED ALONG THE EXTERIOR OF THE PAVING, EXCLUDING THE 15' BUFFER

INDEX

1. COVER
2. EXISTING CONDITIONS
3. SITE LAYOUT
4. GRADING & DRAINAGE PLAN
5. RESOURCE AREA PLAN
6. LANDSCAPING PLAN
7. DETAIL 1 SHEET
8. DETAIL 2 SHEET
9. PHOTOMETRIC PLAN

OWNER/APPLICANT:
RTE. 85 REALTY CORP.
P.O. BOX 444,
MENDON, MA 01756

Guerriere & Halnon, Inc.
Engineering & Land Surveying
333 WEST STREET, MILFORD, MASS. 01757
(508) 473-6630 FAX: (508) 473-8243
www.gandhengineering.com



G-8293

1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.
 2. "WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

DATE: _____
 APPROVED DATE: _____
 PLANNING BOARD

SIGNATURE DATE: _____
 BEING A MAJORITY

NOTES

- 1) THIS PLAN REFERS TO THE TOWN OF MILFORD ASSESSORS ATLAS SHEET 44 LOT 25, 23B AND 23C.
- 2) SEE DEEDS BOOK 38955 PAGE 78, BOOK 52720 PAGE 316, BOOK 52662 PAGE 355, RECORDED AT THE WORCESTER REGISTRY OF DEEDS.
- 3) SEE THE FOLLOWING PLANS RECORDED AT THE WORCESTER DISTRICT REGISTRY OF DEEDS- PLAN BOOK 842 PLAN 62 PLAN BOOK 908 PLAN 104 PLAN BOOK 909 PLAN 7
- 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
- 5) HORIZONTAL DATUM - NAD 83. VERTICAL DATUM - NAVD 88.

LEGEND

- - - - - EXISTING CONTOUR
- - - - - EX. DRAIN LINE
- ⊗ EX. DRAIN MANHOLE
- ⊕ EX. SEWER MANHOLE
- ⊠ EX. CATCHBASIN
- ⊙ EX. UTILITY POLE
- ⊙ EX. TREE
- - - - - EX. SILT FENCE W/ STRAW WADDLES
- - - - - EX. OVERHEAD WIRE
- - - - - EX. VERTICAL GRANITE CURB
- - - - - EX. TREE LINE
- - - - - EX. FLOOD PLAIN
- ▨ EX. BUILDINGS
- - - - - EX. WETLANDS LINE
- X WF-61 WETLANDS FLAG
- ⊕ WETLANDS SYMBOL
- - - - - 100' WETLANDS BUFFER
- - - - - EXIST. STONEWALL
- OWNER

ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

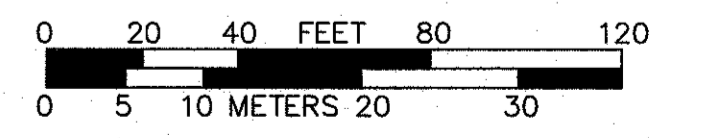
APPLICANT

ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

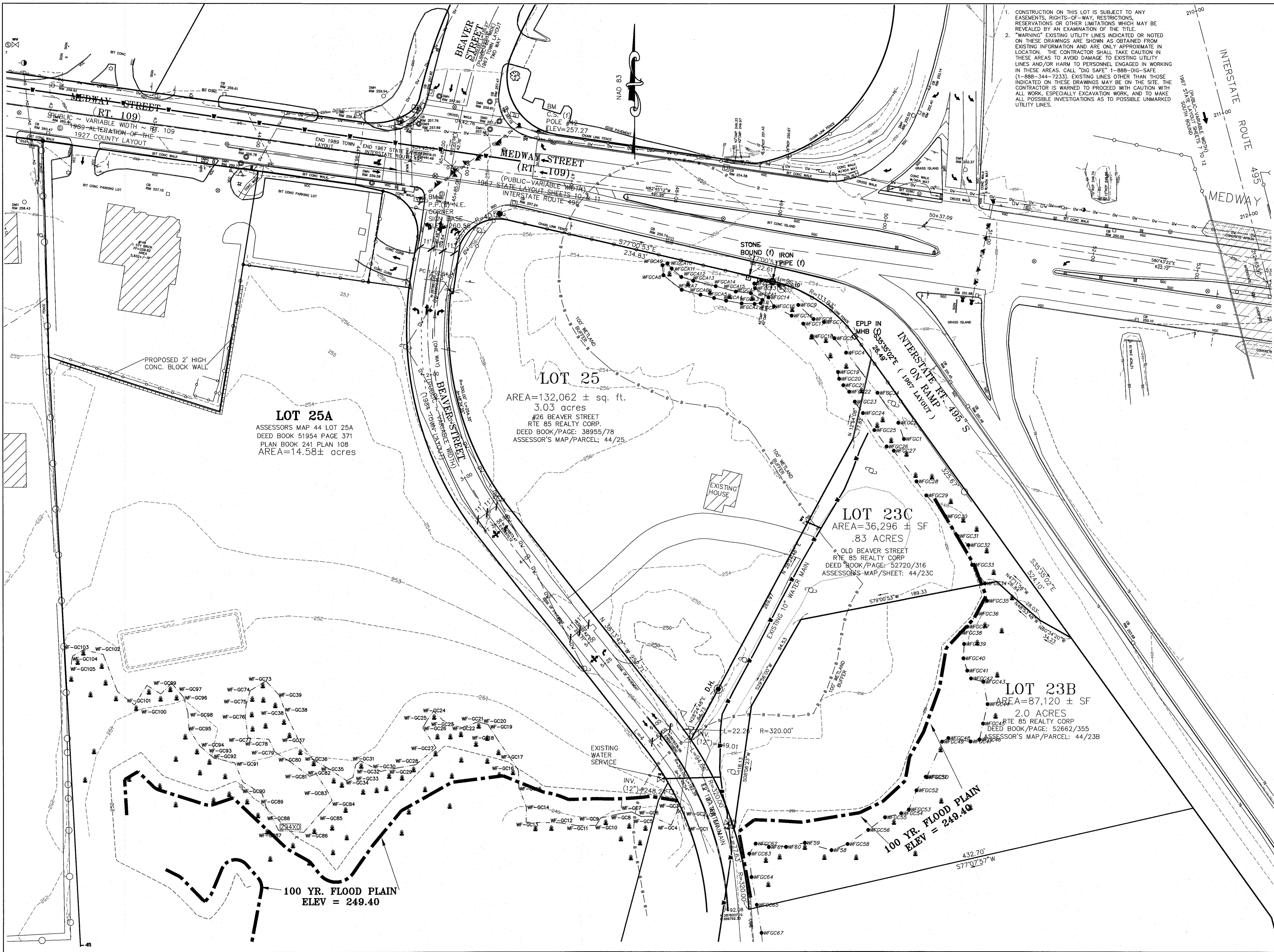
**495 TRANSPORTATION TERMINAL II
 26 BEAVER STREET**

EXISTING CONDITIONS
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: MARCH 2, 2020

#	DATE	DESCRIPTION	INI
1	4-01-20	COMMENTS AND UPDATES	JMN
2	6-29-20	LANDSCAPE, PARKING LAYOUT	JMN
3	9-08-20	TOWN ENGINEERS REVIEW	JMN



Guerriere & Halnon, Inc.
 Engineering & Land Surveying
 333 WEST STREET, MILFORD, MASS. 01757
 (508) 473-6630 FAX: (508) 473-8243
 www.gandhengineering.com



LOT 25A
 ASSESSORS MAP 44 LOT 25A
 DEED BOOK 51954 PAGE 371
 PLAN BOOK 241 PLAN 108
 AREA=14.58± acres

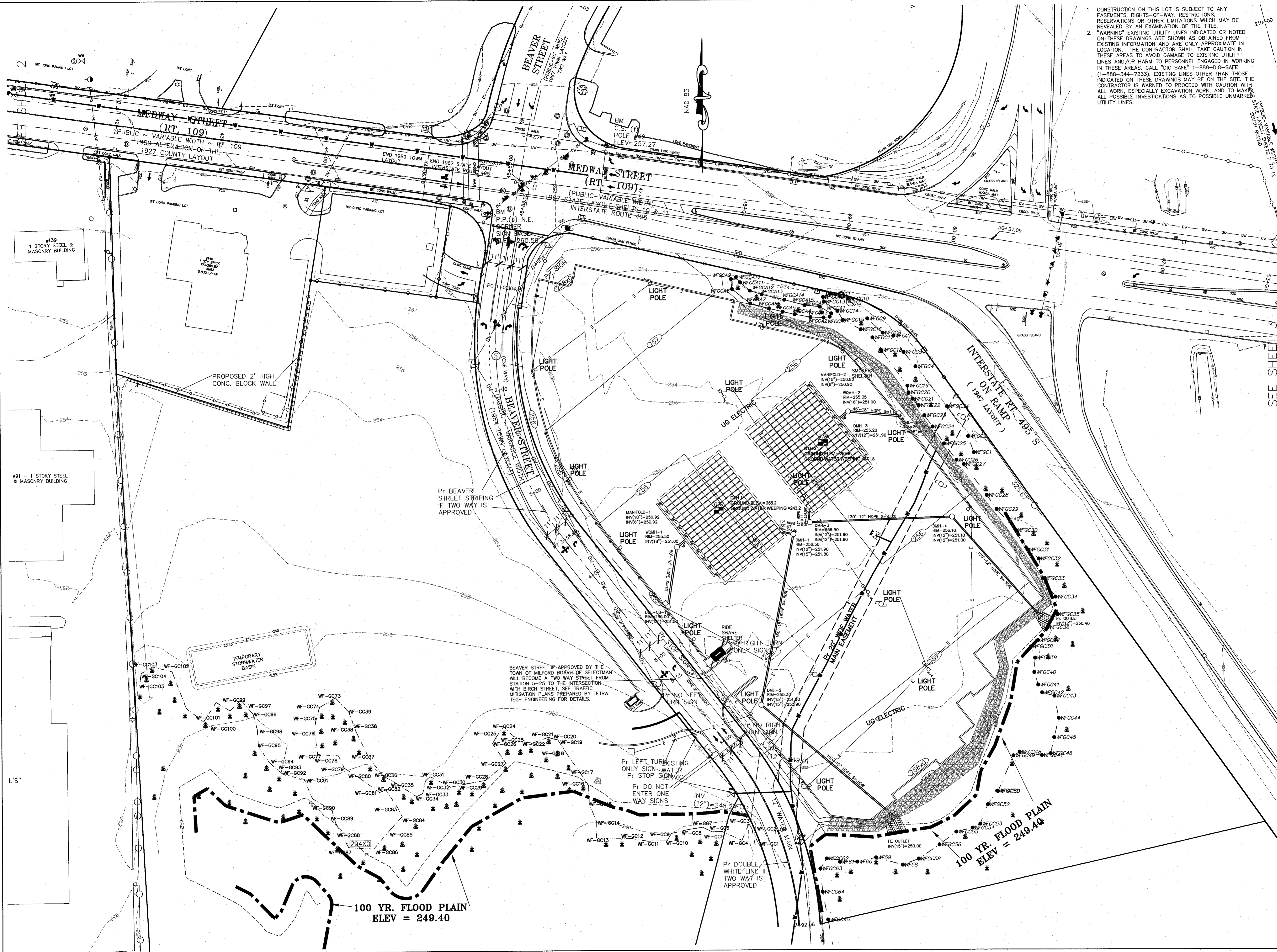
LOT 25
 AREA=132,062 ± sq. ft.
 3.03 acres
 #26 BEAVER STREET
 RTE 85 REALTY CORP.
 DEED BOOK/PAGE: 38955/78
 ASSESSOR'S MAP/PARCEL: 44/25

LOT 23C
 AREA=36,296 ± SF
 .83 ACRES
 OLD BEAVER STREET
 RTE 85 REALTY CORP.
 DEED BOOK/PAGE: 52720/316
 ASSESSOR'S MAP/SHEET: 44/23C

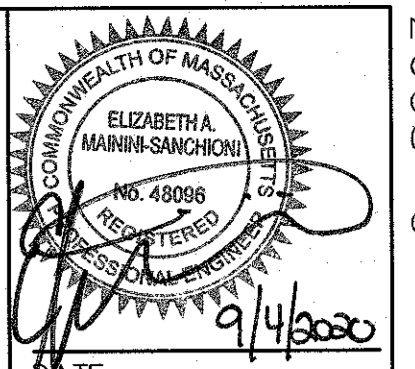
LOT 23B
 AREA=87,120 ± SF
 2.0 ACRES
 RTE 85 REALTY CORP.
 DEED BOOK/PAGE: 52662/355
 ASSESSOR'S MAP/PARCEL: 44/23B

100 YR. FLOOD PLAIN
 ELEV = 249.40

100 YR. FLOOD PLAIN
 ELEV = 249.40



1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.
 2. *WARNING* EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.



DATE: _____
 APPROVED DATE: _____
 PLANNING BOARD
 SIGNATURE DATE: _____
 BEING A MAJORITY

NOTES
 1) ALL TIE IN INVERTS TO BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION.
 2) WATER MAIN IN BEAVER ST TO BE LOCATED IN THE FIELD PRIOR TO START OF CONSTRUCTION OF THE WATER SERVICE TO THE SITE.
 3) STRIPING MAY BE ALTERED TO ALLOW FOR A MIXTURE OF CAR, VAN, TRAILER AND TRACTOR TRAILER PARKING.
 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
 5) HORIZONTAL DATUM - NAD 83.
 VERTICAL DATUM - NAVD 88.

LEGEND

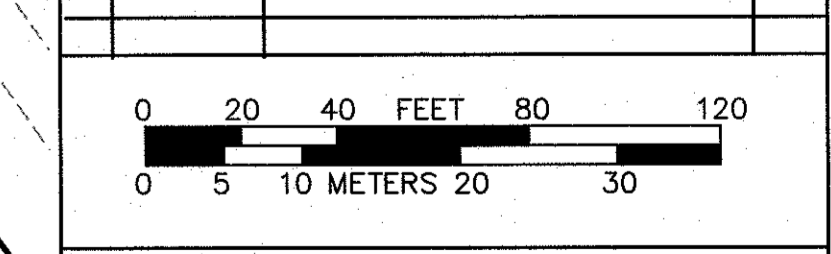
Pr. EDGE OF PAVEMENT
Pr. MODIFIED CAPE COD BERM
Pr. CONTOUR
Pr. DRAIN LINE
Pr. DRAIN MANHOLE
Pr. CATCH BASIN
Pr. SEWER MANHOLE
Pr. SEWER LINE
Pr. WATER LINE
Pr. BLOCK WALL
Pr. U.G. MEDIA
Pr. U.G. ELECTRIC
Pr. U.G. TELEPHONE
Pr. STREET TREE
Pr. 4 HEAD LIGHT POLE
Pr. SINGLE HEAD LIGHT POLE
Pr. CHAINLINK FENCE
Pr. SIGN
EXISTING BUILDINGS
WETLANDS LINE
WETLANDS FLAG

OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

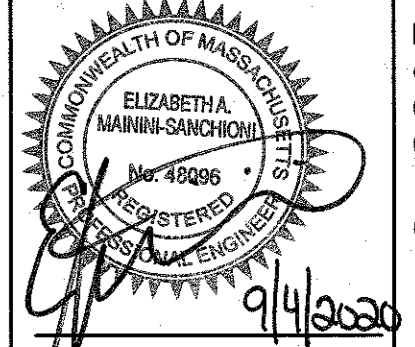
APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

**495 TRANSPORTATION TERMINAL II
 26 BEAVER STREET**
 GRADING & UTILITY
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: MARCH 2, 2020

#	DATE	DESCRIPTION	INI
1	4-01-20	COMMENTS AND UPDATES	JMN
2	6-29-20	LANDSCAPE, PARKING LAYOUT	JMN
3	9-08-20	TOWN ENGINEERS REVIEW	JMN



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G-8293

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DATE: _____
 APPROVED DATE: _____ PLANNING BOARD

SIGNATURE DATE: _____
 BEING A MAJORITY
NOTES

- WETLANDS DELINEATED BY GODDARD CONSULTING IN AUGUST, 2016 AND LOCATED AND PLOTTED BY GUERRIERE & HALNON, INC.
- ALL EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH GROWING VEGETATION.
- A NATIVE SEED MIX IS TO BE USED TO RE-VEGETATE THE DISTURBED AREAS.

LEGEND

	EXISTING CONTOUR
	Ex. SILT FENCE W/ MULCH SOCK
	Ex. TREE LINE
	Ex. FLOOD PLAIN
	Ex. WETLANDS LINE
	WF-61 WETLANDS FLAG
	WETLANDS SYMBOL
	100' WETLANDS BUFFER
	EXIST. STONEWALL
	Pr. CONTOUR
	Pr. RIP RAP
	Pr. SILT FENCE AND MULCH SOCK

OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

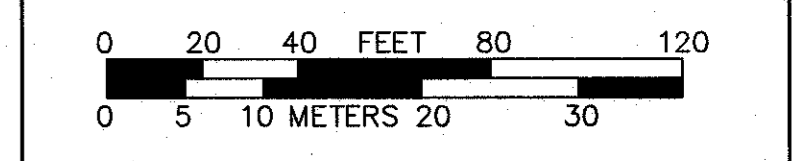
APPLICANT
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**495 TRANSPORTATION TERMINAL II
 26 BEAVER STREET**

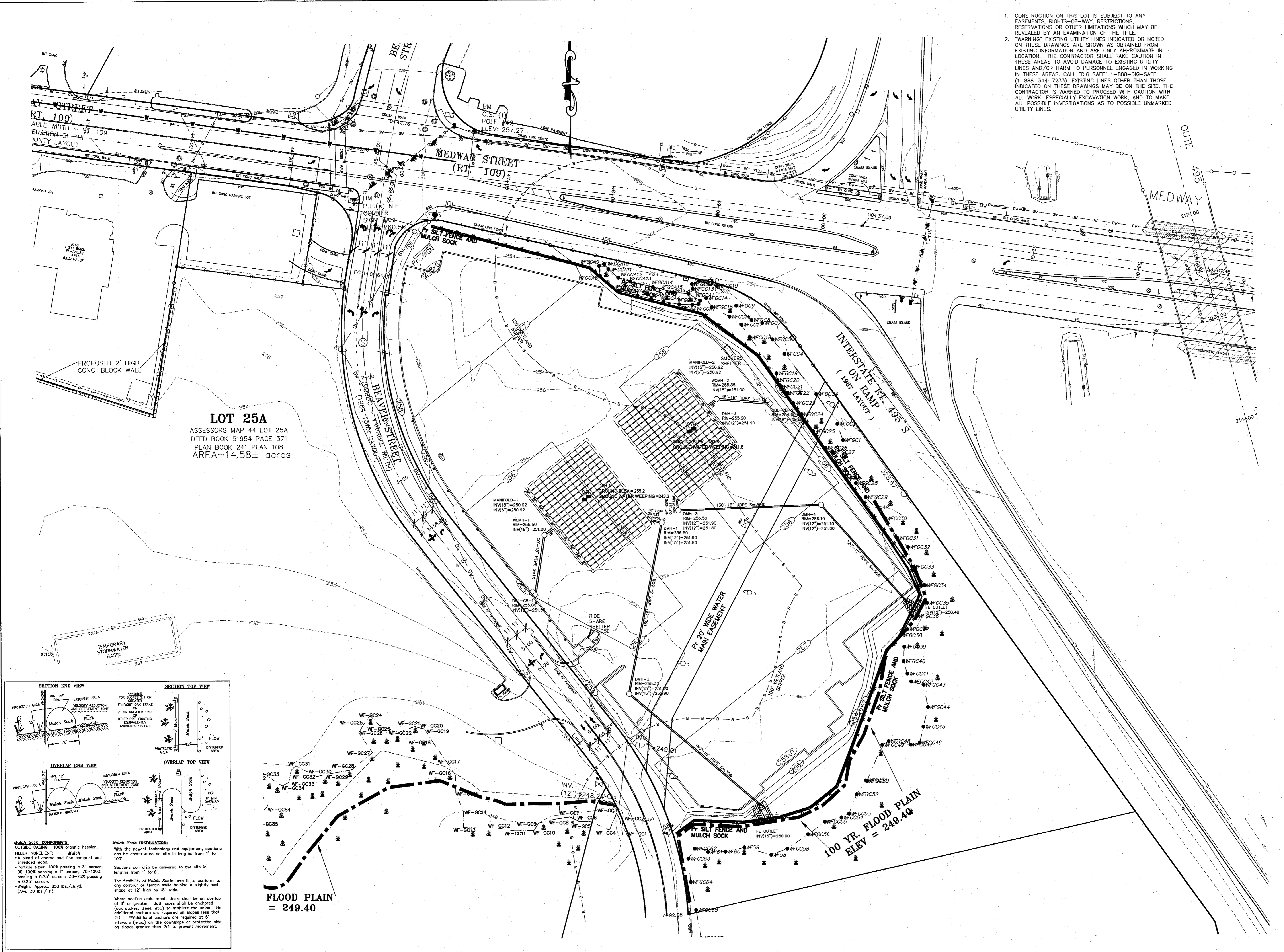
**RESOURCE AREA PLAN
 PLAN OF LAND
 IN
 MILFORD, MA**

**SCALE: 40 FEET TO AN INCH
 DATE: MARCH 2, 2020**

#	DATE	DESCRIPTION	INI
1	4-01-20	COMMENTS AND UPDATES	JMN
2	6-29-20	LANDSCAPE, PARKING LAYOUT	JMN
3	9-08-20	TOWN ENGINEERS REVIEW	JMN



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LOT 25A
 ASSESSORS MAP 44 LOT 25A
 DEED BOOK 51954 PAGE 371
 PLAN BOOK 241 PLAN 108
 AREA=14.58± acres

SECTION END VIEW

SECTION TOP VIEW

OVERLAP END VIEW

OVERLAP TOP VIEW

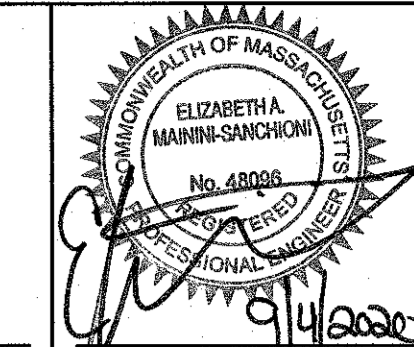
Mulch Sock COMPONENTS:
 OUTSIDE CASING: 100% organic hessian.
 FILLER INGREDIENT: Mulch
 *A blend of coarse and fine compost and shredded wood.
 *Particle sizes: 100% passing a 3" screen; 90-100% passing a 1" screen; 70-100% passing a 0.75" screen; 30-75% passing a 0.25" screen.
 *Weight: Approx. 850 lbs./cu.yd. (Ave. 30 lbs./ft.)

Mulch Sock INSTALLATION:
 With the newest technology and equipment, sections can be constructed on site in lengths from 1' to 100'.
 Sections can also be delivered to the site in lengths from 1' to 8'.
 The flexibility of Mulch Sock allows it to conform to any contour or terrain while holding a slightly oval shape at 12" high by 15" wide.
 Where section ends meet, there shall be an overlap of 6" or greater. Both sides shall be anchored (lock stakes, trees, etc.) to stabilize the union. No additional anchors are required on slopes less than 2:1. **Additional anchors are required at 5' intervals (max.) on the downslope or protected side on slopes greater than 2:1 to prevent movement.

FLOOD PLAIN = 249.40

1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

2. "WARNING" EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS. CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233). EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.



DATE: _____

APPROVED DATE: _____

PLANNING BOARD

SIGNATURE DATE: _____

BEING A MAJORITY

NOTES

- 1) ALL PARKING SPACES TO BE 9'W X 18'L.
- 2) ALL TRAVEL LINES TO BE 24' WIDE.
- 3) STRIPING MAY BE ALTERED TO ALLOW FOR A MIXTURE OF CAR, VAN, TRAILER AND TRACTOR TRAILER PARKING.
- 4) ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
- 5) HORIZONTAL DATUM - NAD 83. VERTICAL DATUM - NAVD 88.

LEGEND

	Pr. EDGE OF PAVEMENT
	Pr. MODIFIED CAPE COD BERM
	Pr. CONTOUR
	Pr. DRAIN LINE
	Pr. DRAIN MANHOLE
	Pr. CATCH BASIN
	Pr. U.G. TELEPHONE
	Pr. UTILITY/LIGHT POLE
	Pr. STREET TREE
	Pr. 4 HEAD LIGHT POLE
	Pr. SINGLE HEAD LIGHT POLE
	Pr. CHAINLINK FENCE
	Pr. SIGN
	EXISTING BUILDINGS
	WETLANDS LINE
	WETLANDS FLAG
	WETLANDS SYMBOL
	100' WETLANDS BUFFER
	EXIST. STONEWALL

OWNER

ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

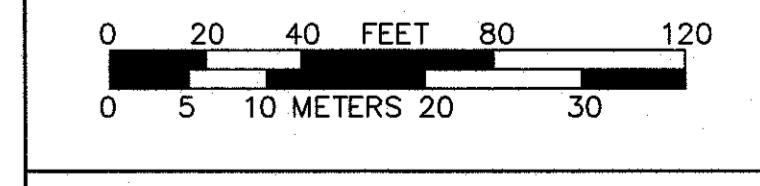
APPLICANT

ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

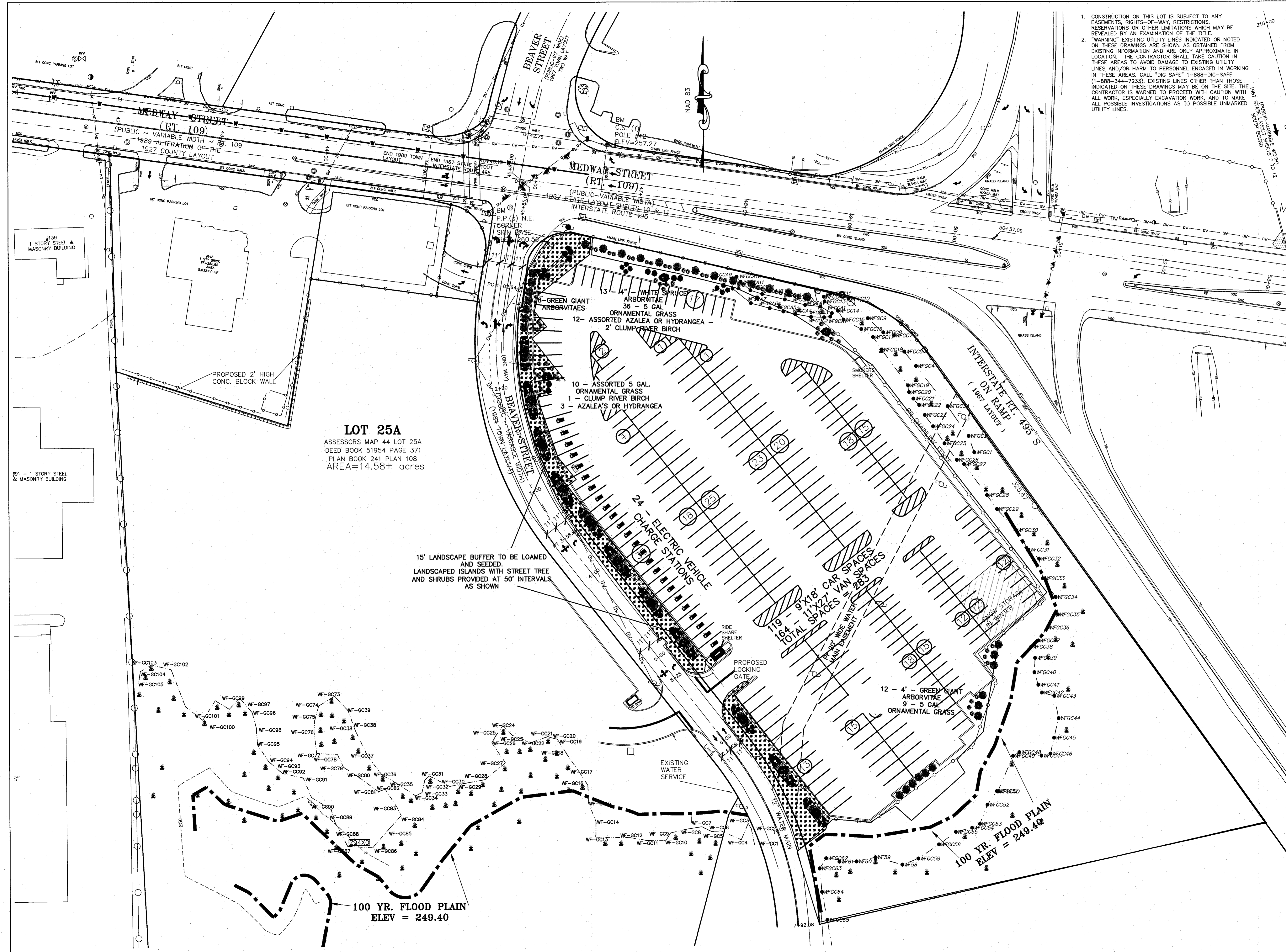
495 TRANSPORTATION TERMINAL II
26 BEAVER STREET

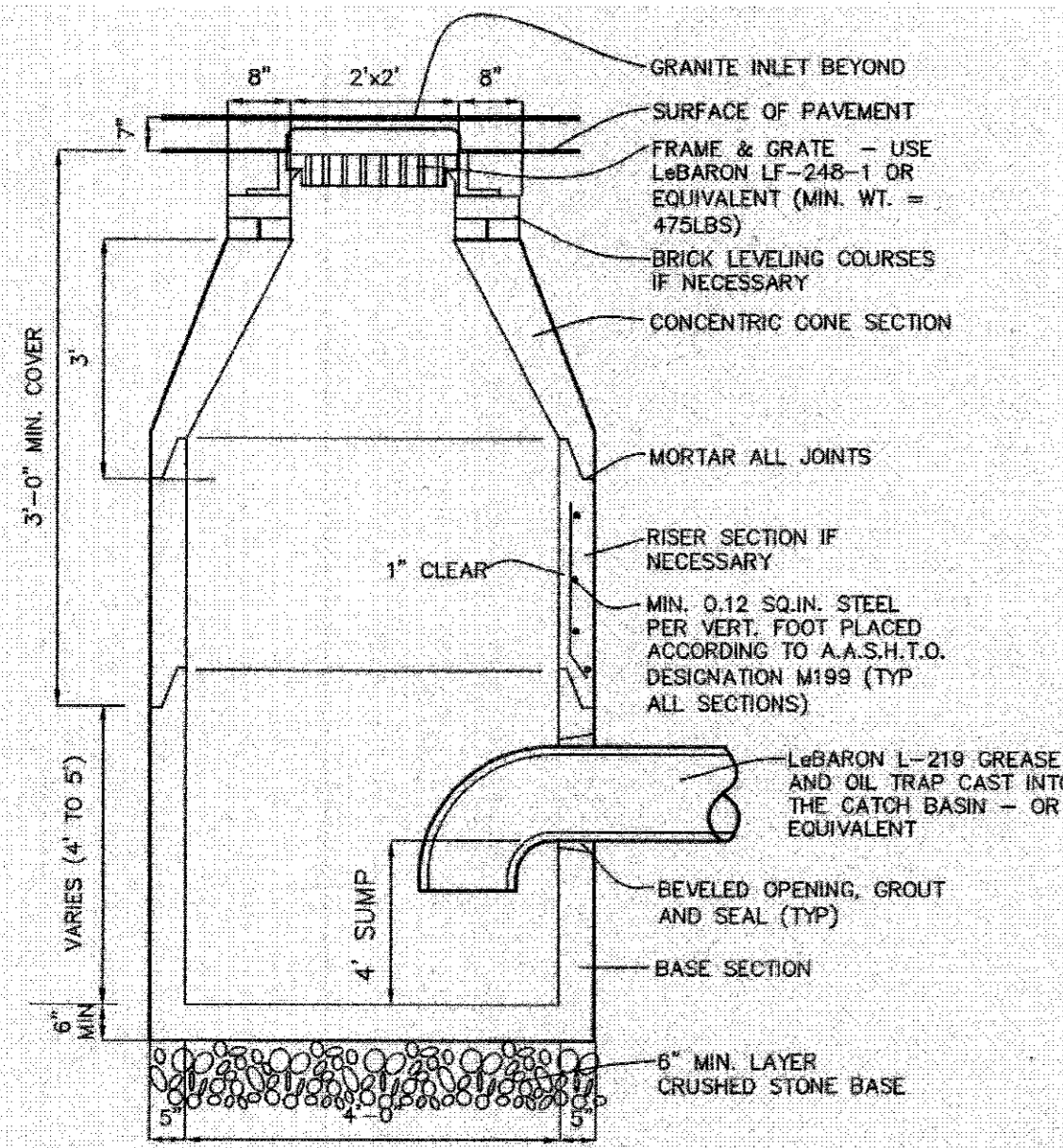
LANDSCAPE
PLAN OF LAND
IN
MILFORD, MA
SCALE: 40 FEET TO AN INCH
DATE: MARCH 2, 2020

#	DATE	DESCRIPTION	INI
1	4-01-20	COMMENTS AND UPDATES	JMN
2	6-29-20	LANDSCAPE, PARKING LAYOUT	JMN
3	9-08-20	TOWN ENGINEERS REVIEW	JMN



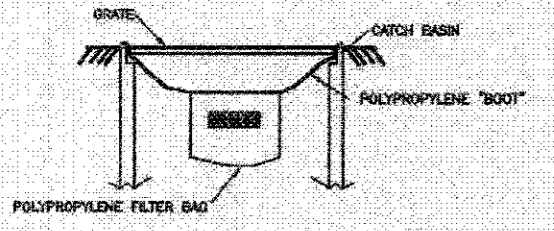
Guerriere & Halon, Inc.
Engineering & Land Surveying
333 WEST STREET, MILFORD, MASS. 01757
(508) 473-6630 FAX: (508) 473-8243
www.gandhengineering.com



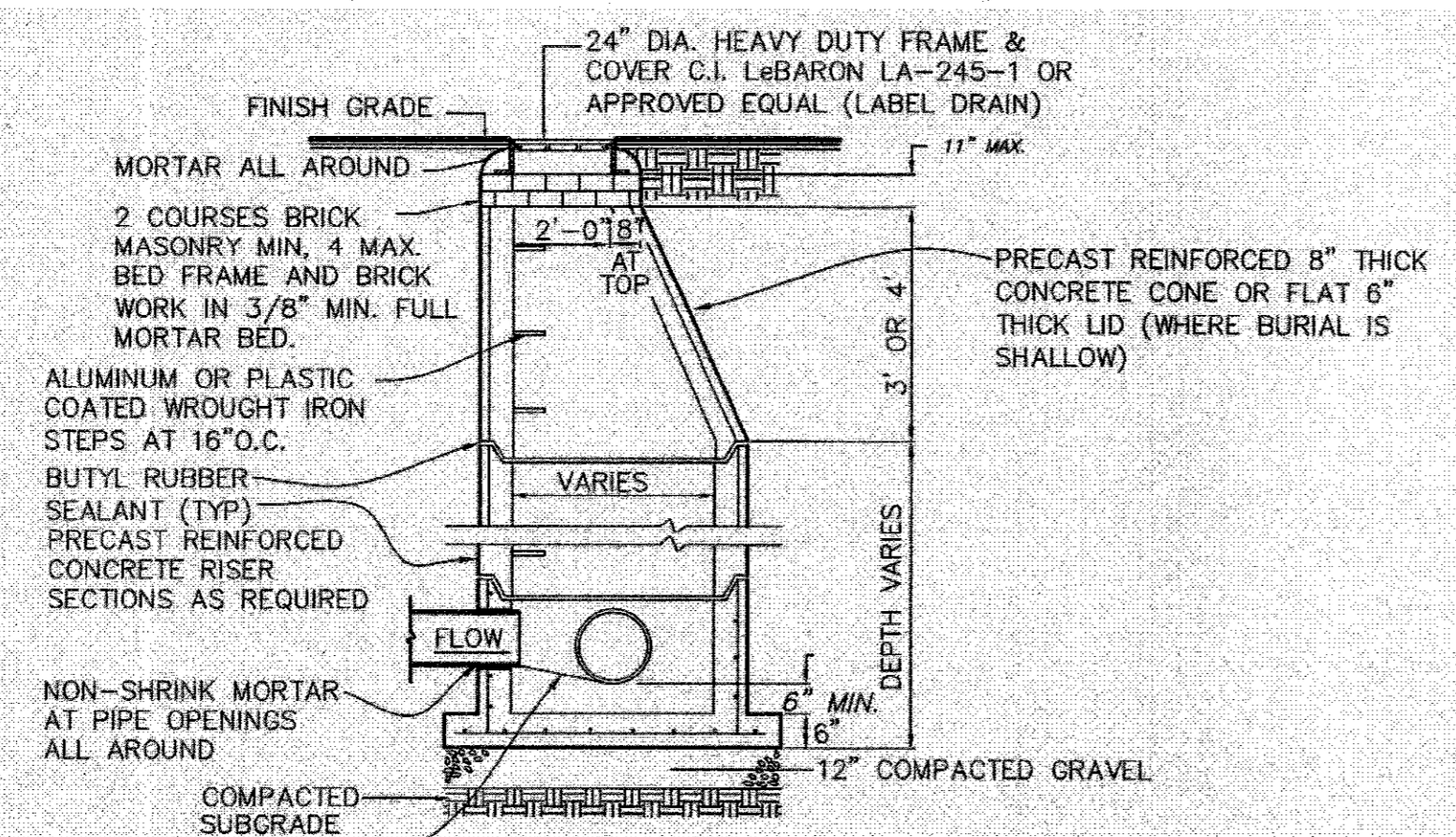


SECTION
PRECAST CONCRETE CATCH BASIN
NOT TO SCALE

- NOTES:
1. PIPE OPENINGS TO BE PRECAST IN CATCH BASIN SECTIONS.
 2. SURFACE OF FRAME AND GRATE TO SLOPE DOWN 1" FROM FRONT TO BACK.
 3. FACE OF PIPE TO BE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.

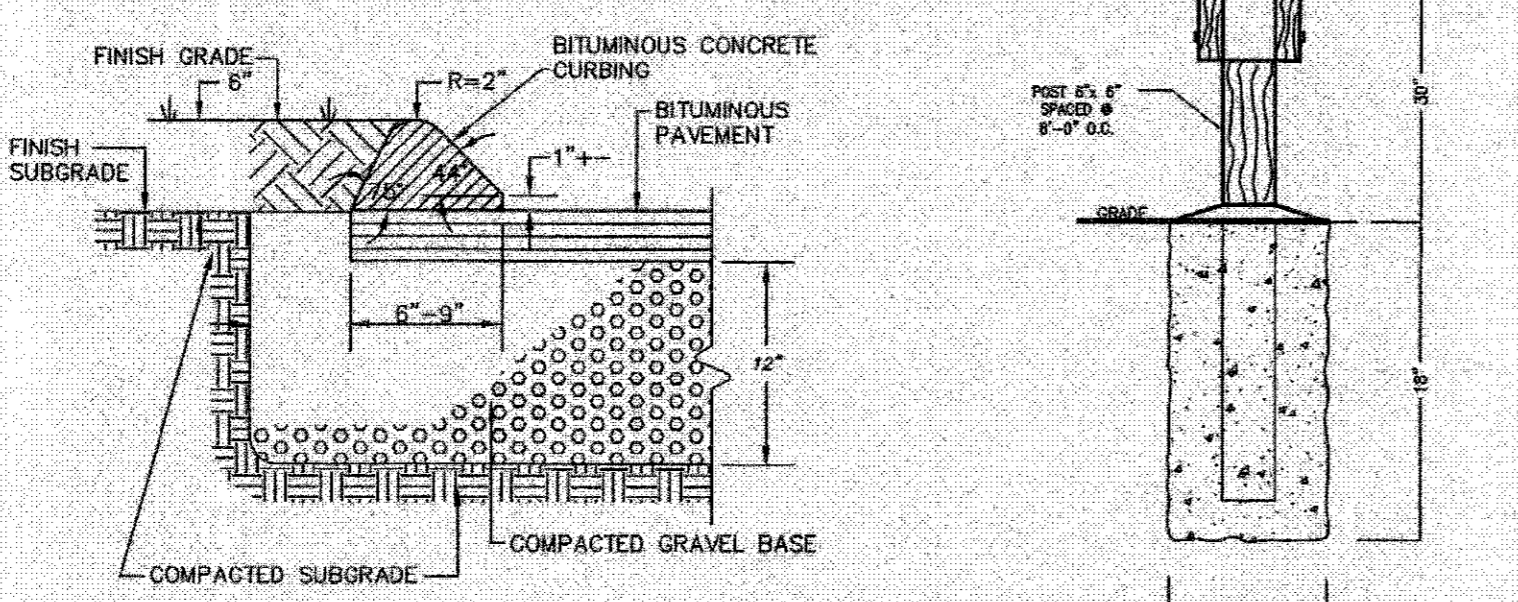


SILTATION BASKET
TYPE II-S (SEDIMENT)
N.T.S.

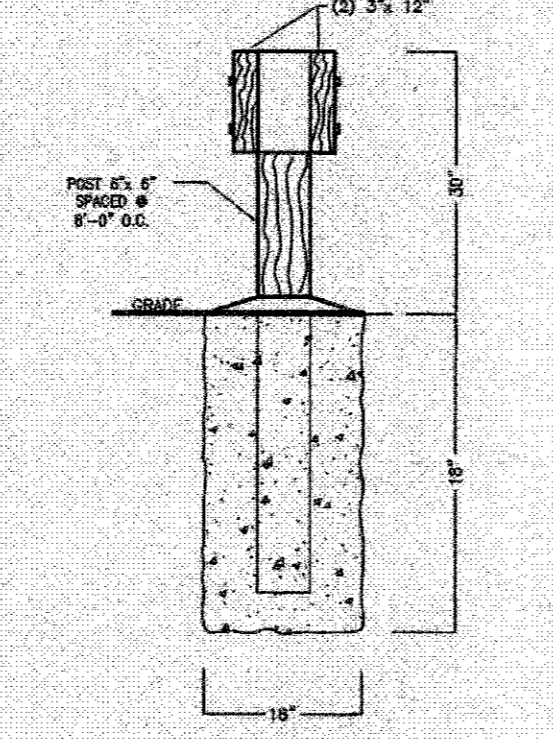


TYP. PRECAST CONCRETE MANHOLE STORM DRAIN

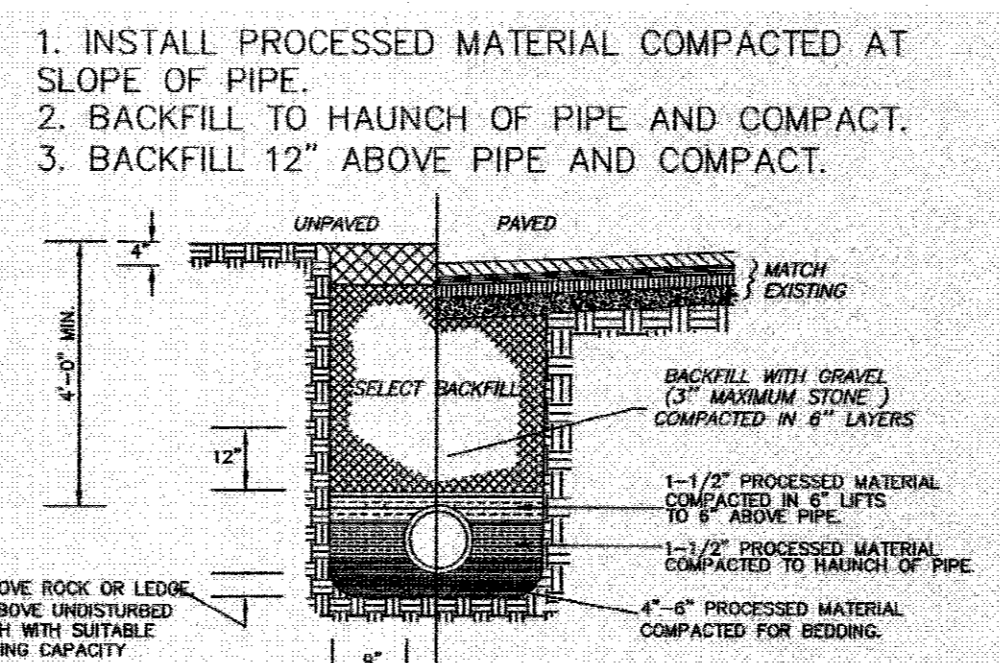
N.T.S.
NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. C478.



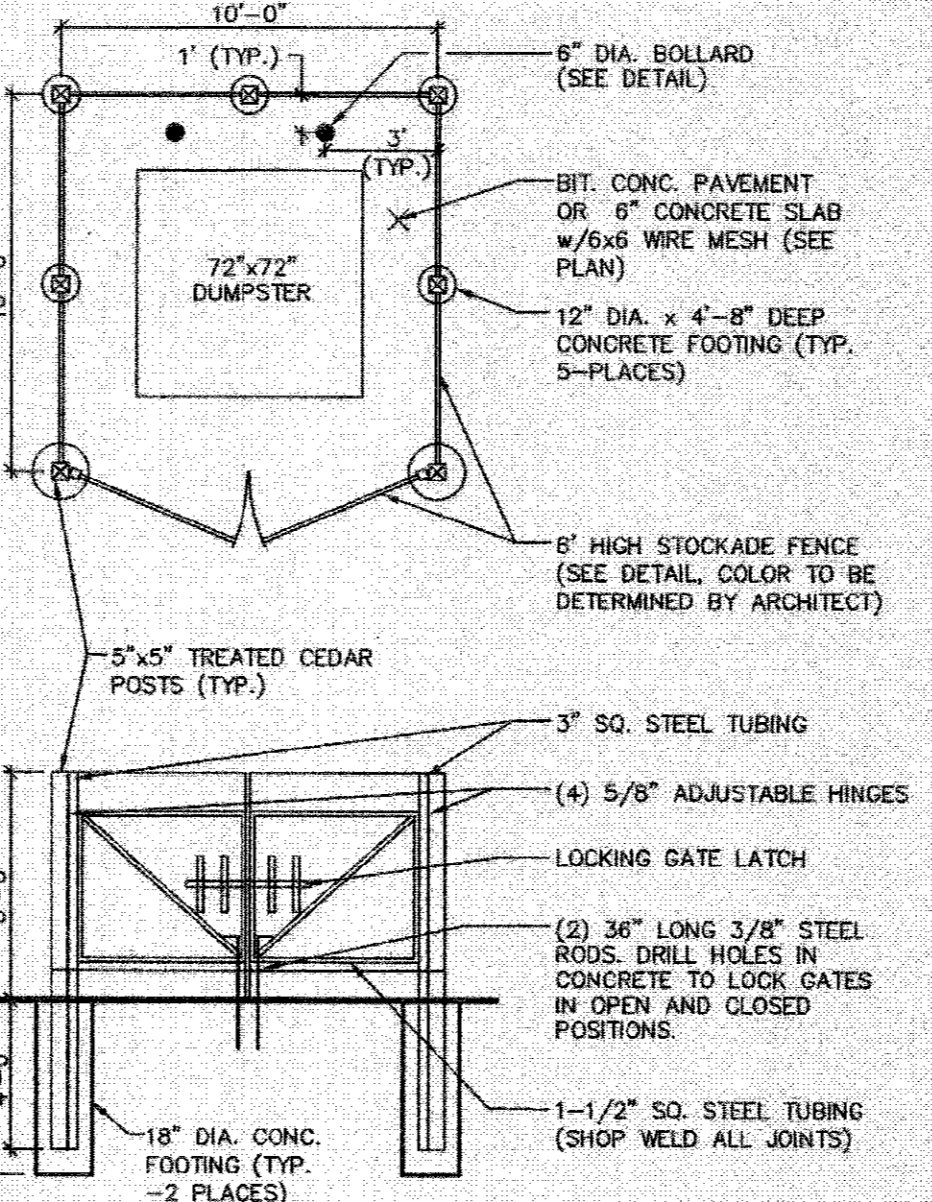
TYP. BITUMINOUS CONCRETE CURB DETAIL
N.T.S.



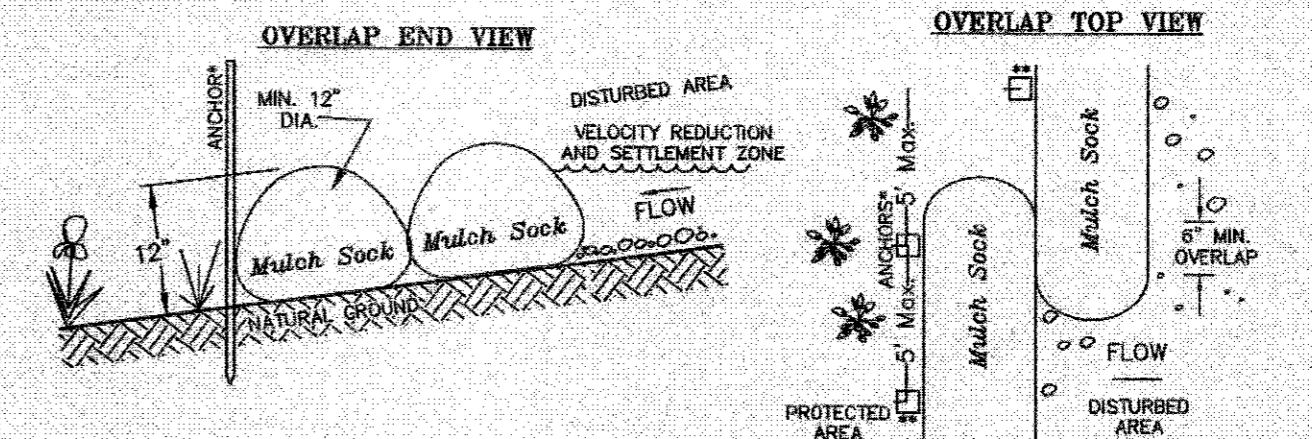
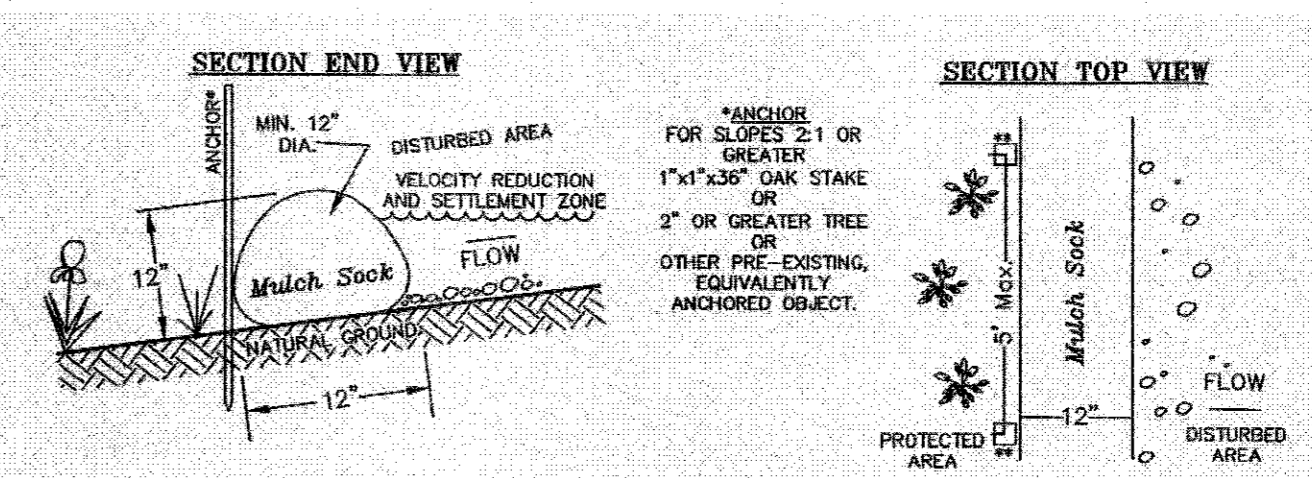
WOODEN GUARD RAIL
N.T.S.



TYPICAL H.D.P.E. TRENCH SECTION
NOT TO SCALE

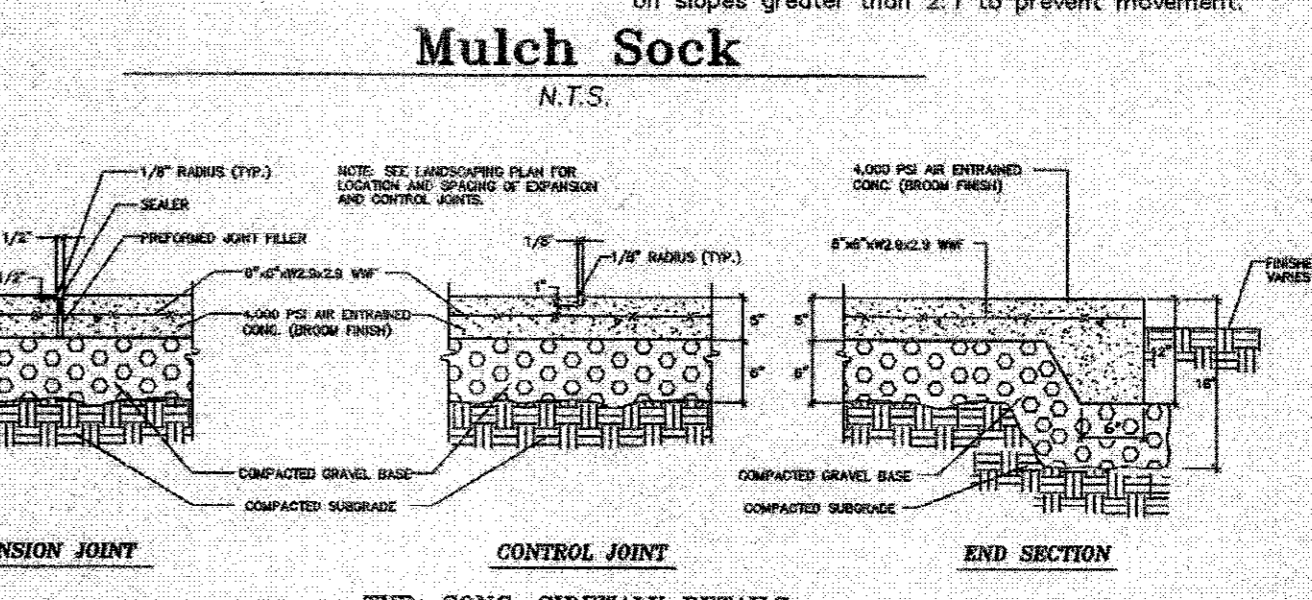


TRASH ENCLOSURE
SCALE: 1/4"=1'-0"

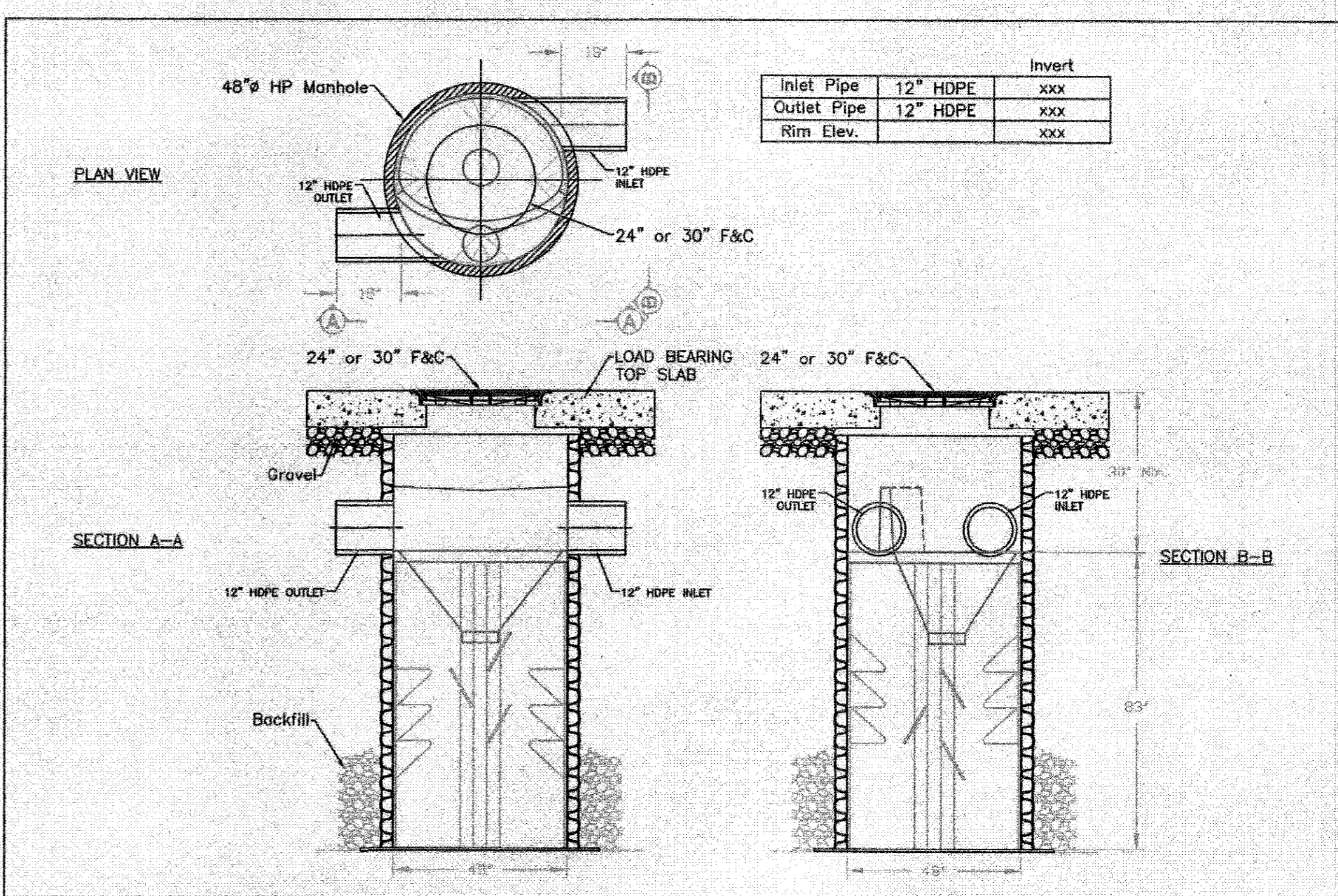


COMPONENTS:
OUTSIDE CASING: 100% organic hessian.
FILLER INGREDIENT: Mulch
• A blend of coarse and fine compost and shredded wood.
• Particle sizes: 100% passing a 3" screen; 90-100% passing a 1" screen; 70-100% passing a 0.75" screen; 30-75% passing a 0.25" screen.
• Weight: Approx. 850 lbs./cu.yd. (Ave. 30 lbs./f.t.)

Mulch Sock INSTALLATION:
With the newest technology and equipment, sections can be constructed on site in lengths from 1' to 100'.
Sections can also be delivered to the site in lengths from 1' to 8'.
The flexibility of Mulch Sock allows it to conform to any contour or terrain while holding a slightly oval shape at 12" high by 18" wide.
Where section ends meet, there shall be an overlap of 8" or greater. Both sides shall be anchored (oak stakes, trees, etc.) to stabilize the union. No additional anchors are required on slopes less than 2:1. **Additional anchors are required at 5' intervals (max.) on the downslope or protected side on slopes greater than 2:1 to prevent movement.

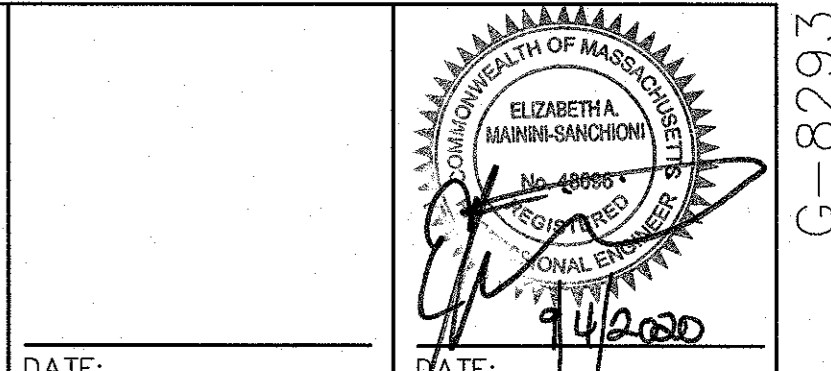


TYP. CONC. SIDEWALK DETAILS
N.T.S.



Inlet Pipe	12" HDPE	XXXX
Outlet Pipe	12" HDPE	XXXX
Rim Elev.		XXXX

<p>1030 Deer Hollow Drive Mount Airy, MD 21771 1-800-BAYSAVER 1-800-228-7283</p>	<p>4640 TRUMAN BLVD HILLIARD, OH 43026 1-800-733-7973</p>	<p>BARRACUDA S4 SYSTEM DETAIL</p>	<table border="1"> <tr><td>TREATMENT FLOW</td><td>1.25 GPM</td></tr> <tr><td>PEAK FLOW</td><td></td></tr> <tr><td>MODEL NUMBER</td><td>84</td></tr> <tr><td>DATE</td><td>7/20/17</td></tr> <tr><td>DRAWN</td><td>EKH</td></tr> <tr><td>CHECKED</td><td>PH</td></tr> <tr><td>SCALE</td><td>N.T.S.</td></tr> </table>	TREATMENT FLOW	1.25 GPM	PEAK FLOW		MODEL NUMBER	84	DATE	7/20/17	DRAWN	EKH	CHECKED	PH	SCALE	N.T.S.
TREATMENT FLOW	1.25 GPM																
PEAK FLOW																	
MODEL NUMBER	84																
DATE	7/20/17																
DRAWN	EKH																
CHECKED	PH																
SCALE	N.T.S.																



DATE: _____ DATE: 9/4/2020
APPROVED DATE: _____ PLANNING BOARD

SIGNATURE DATE: _____ BEING A MAJORITY
NOTES

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OWNER
ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

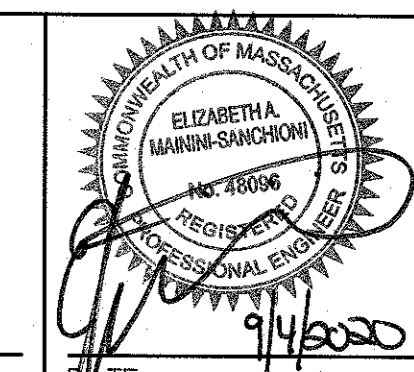
APPLICANT
ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

26 BEAVER STREET

DETAIL SHEET
PLAN OF LAND
IN
MILFORD, MA
N.T.S.
DATE: MARCH 2, 2020

#	DATE	DESCRIPTION	INI
1	4-01-20	COMMENTS AND UPDATES	JMN
2	6-29-20	ABUTTERS COMMENTS AND PARKING	JMN
3	9-08-20	TOWN ENGINEERS COMMENTS	JMN

Engineering & Land Surveying
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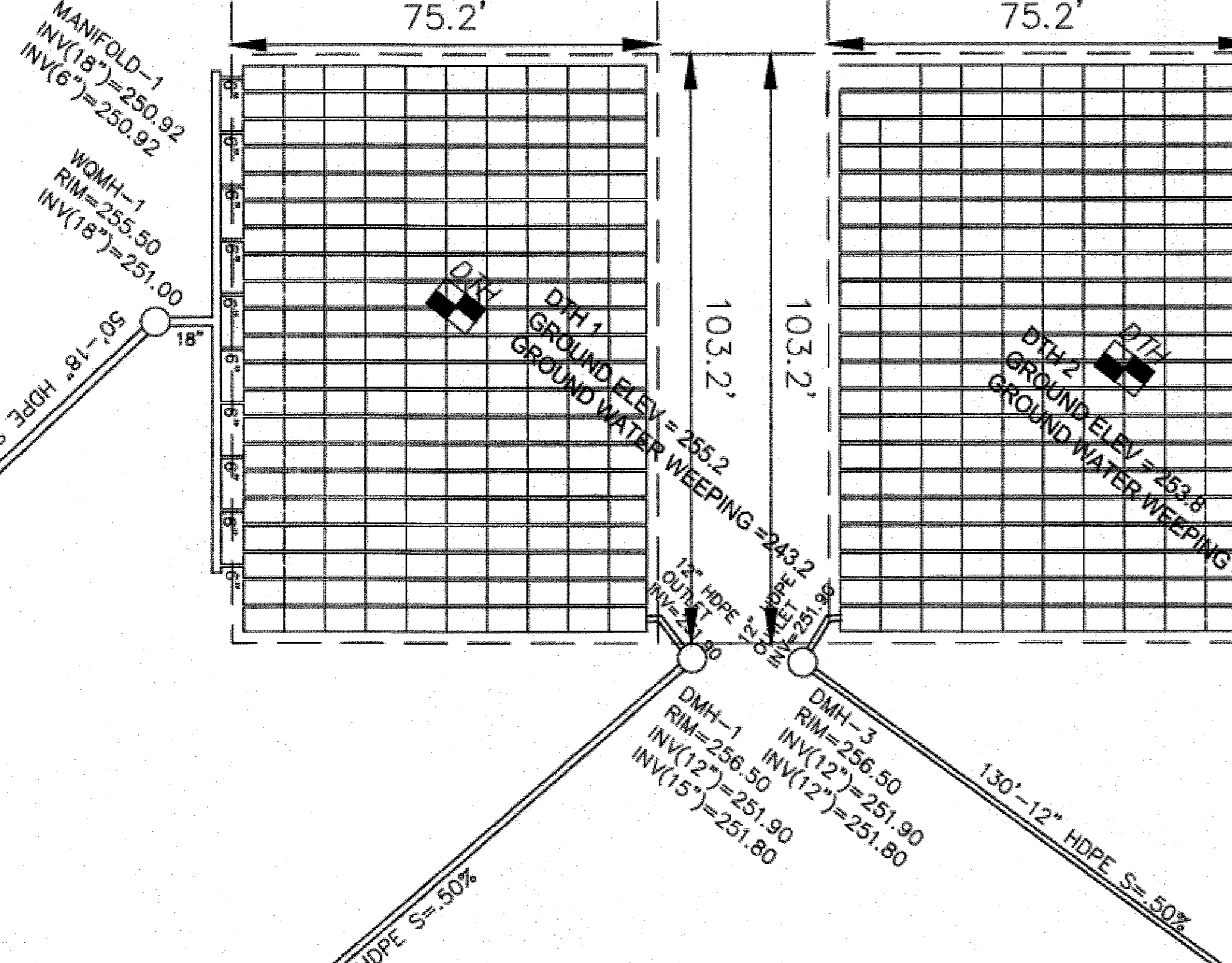
DATE: _____
 APPROVED DATE: _____ PLANNING BOARD

SIGNATURE DATE: _____
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PROPOSED 210 UNIT UNDERGROUND DETENTION AREA

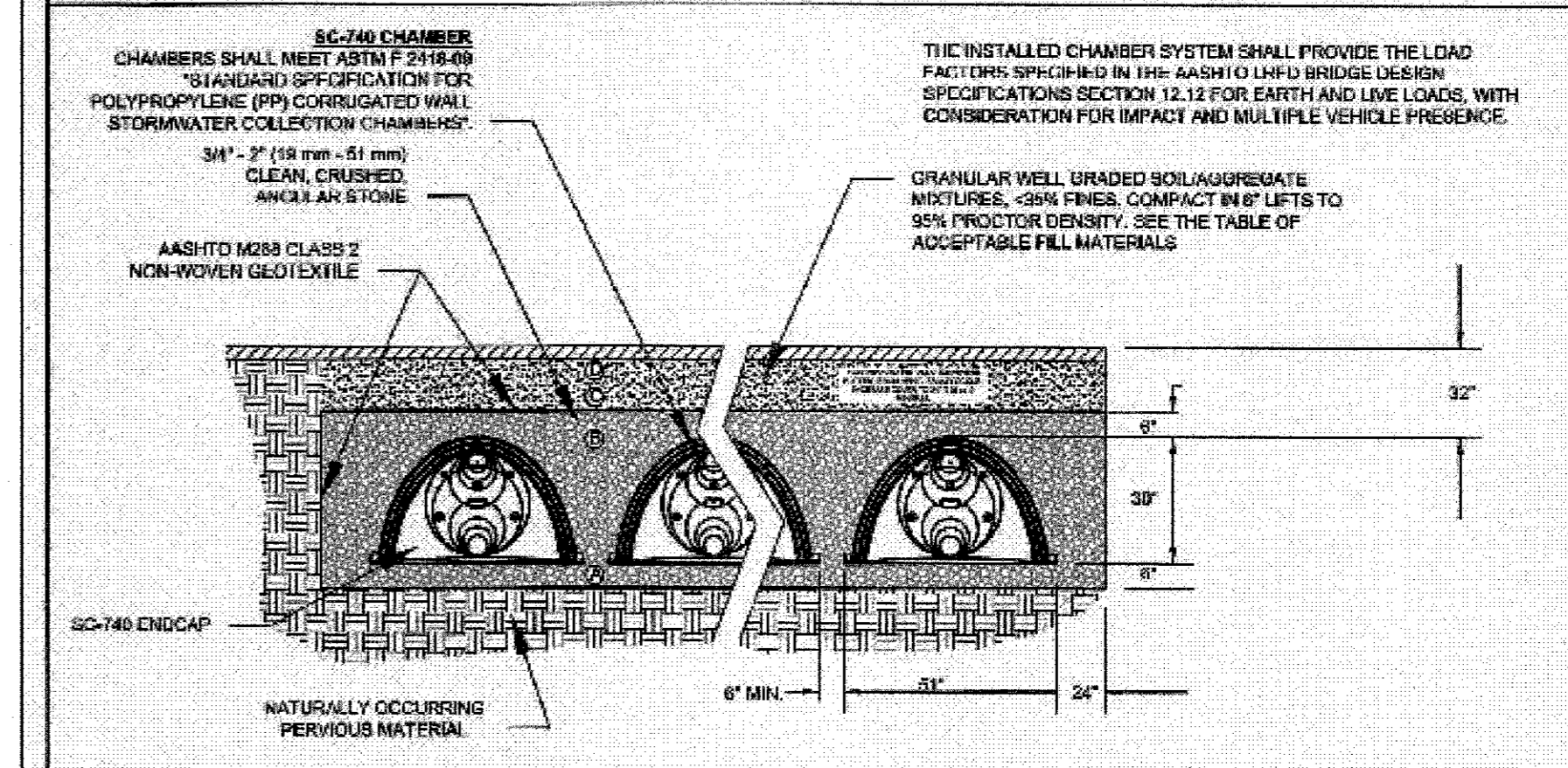


20 FEET TO AN INCH

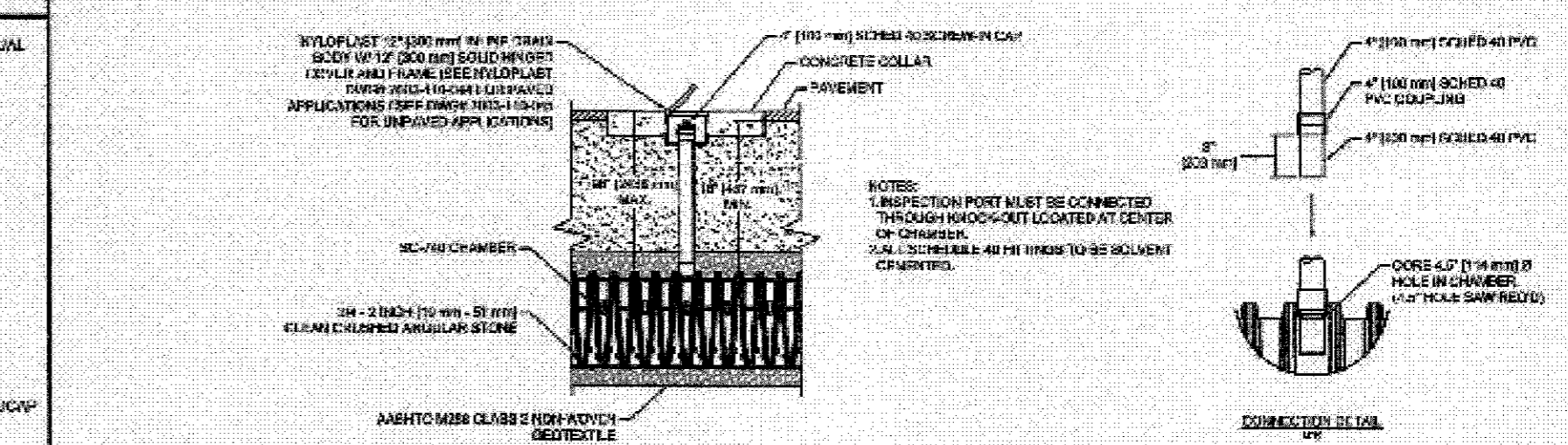
ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M88 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
1. ALL MATERIALS TO BE PLACED FROM THE TOP OF THE CHAMBER TO THE BOTTOM OF THE CHAMBER SHALL BE CLASS 2 GRANULAR SOILS.	ANY ACCEPTED NATURAL MATERIALS OR FOR THE PURPOSE OF THIS PLAN, CLASS 2 GRANULAR SOILS SHALL BE USED.	MS	95% PROCTOR DENSITY, 95% MOISTURE CONTROL
2. ALL MATERIALS TO BE PLACED FROM THE TOP OF THE CHAMBER TO THE TOP OF THE CHAMBER SHALL BE CLASS 2 GRANULAR SOILS.	ANY ACCEPTED NATURAL MATERIALS OR FOR THE PURPOSE OF THIS PLAN, CLASS 2 GRANULAR SOILS SHALL BE USED.	MS	95% PROCTOR DENSITY, 95% MOISTURE CONTROL
3. ALL MATERIALS TO BE PLACED FROM THE TOP OF THE CHAMBER TO THE TOP OF THE CHAMBER SHALL BE CLASS 2 GRANULAR SOILS.	ANY ACCEPTED NATURAL MATERIALS OR FOR THE PURPOSE OF THIS PLAN, CLASS 2 GRANULAR SOILS SHALL BE USED.	MS	95% PROCTOR DENSITY, 95% MOISTURE CONTROL
4. ALL MATERIALS TO BE PLACED FROM THE TOP OF THE CHAMBER TO THE TOP OF THE CHAMBER SHALL BE CLASS 2 GRANULAR SOILS.	ANY ACCEPTED NATURAL MATERIALS OR FOR THE PURPOSE OF THIS PLAN, CLASS 2 GRANULAR SOILS SHALL BE USED.	MS	95% PROCTOR DENSITY, 95% MOISTURE CONTROL

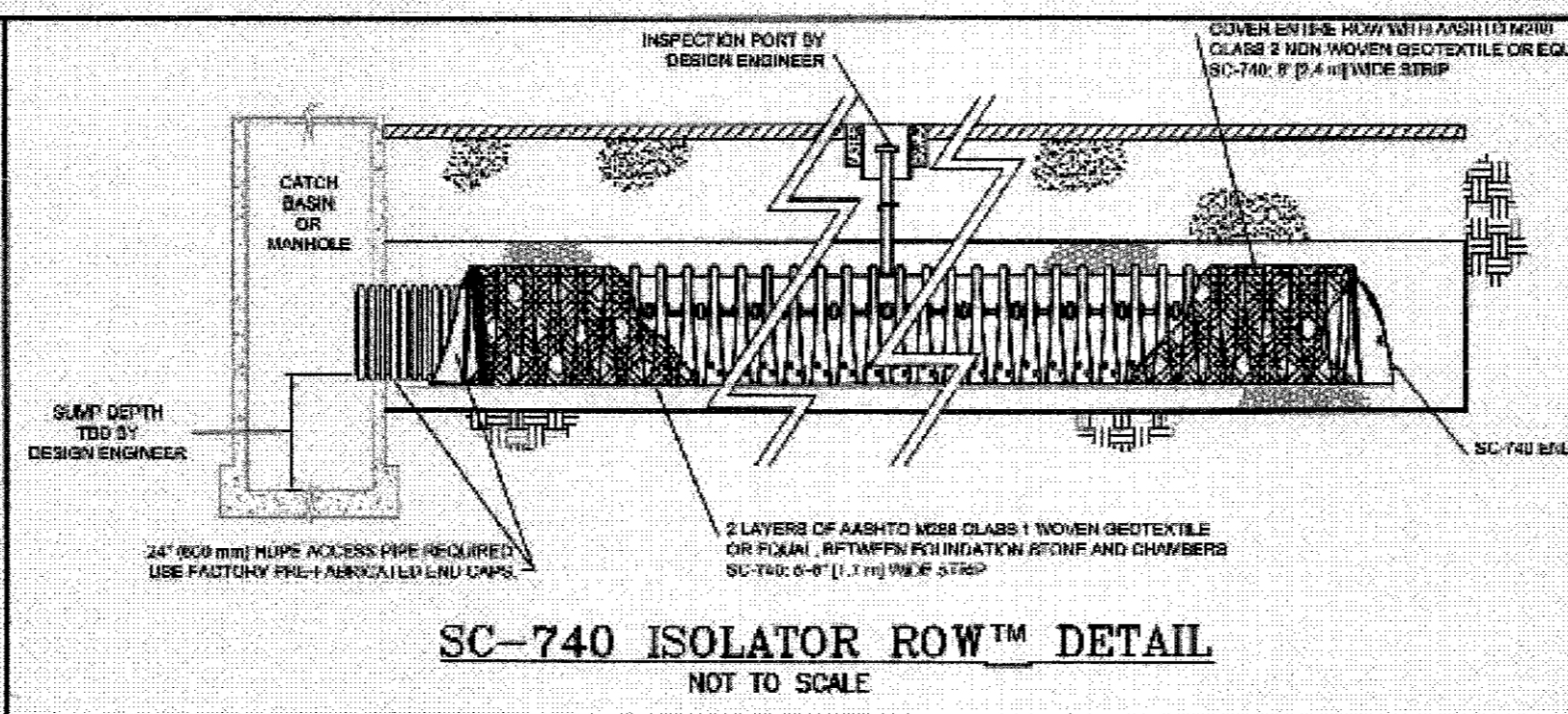
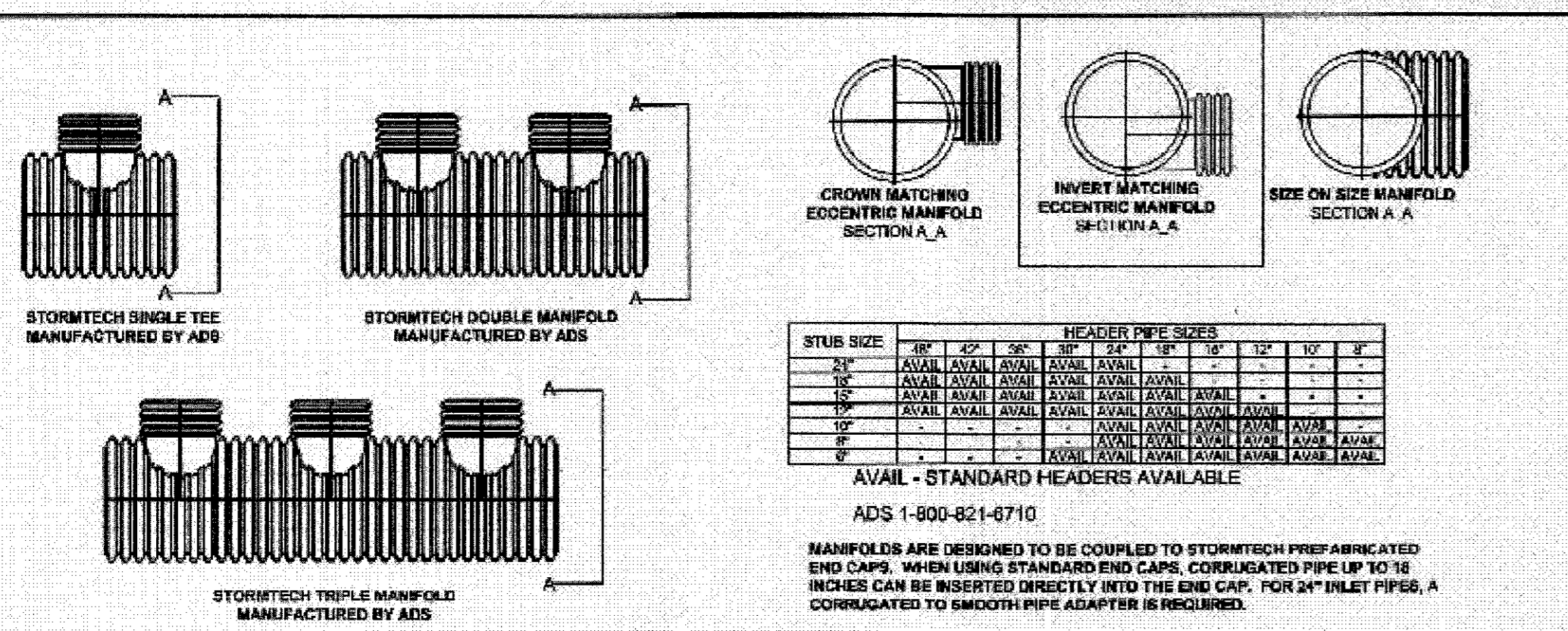
STORMTECH ACCEPTABLE FILL MATERIALS



SC-740 STANDARD CROSS SECTION

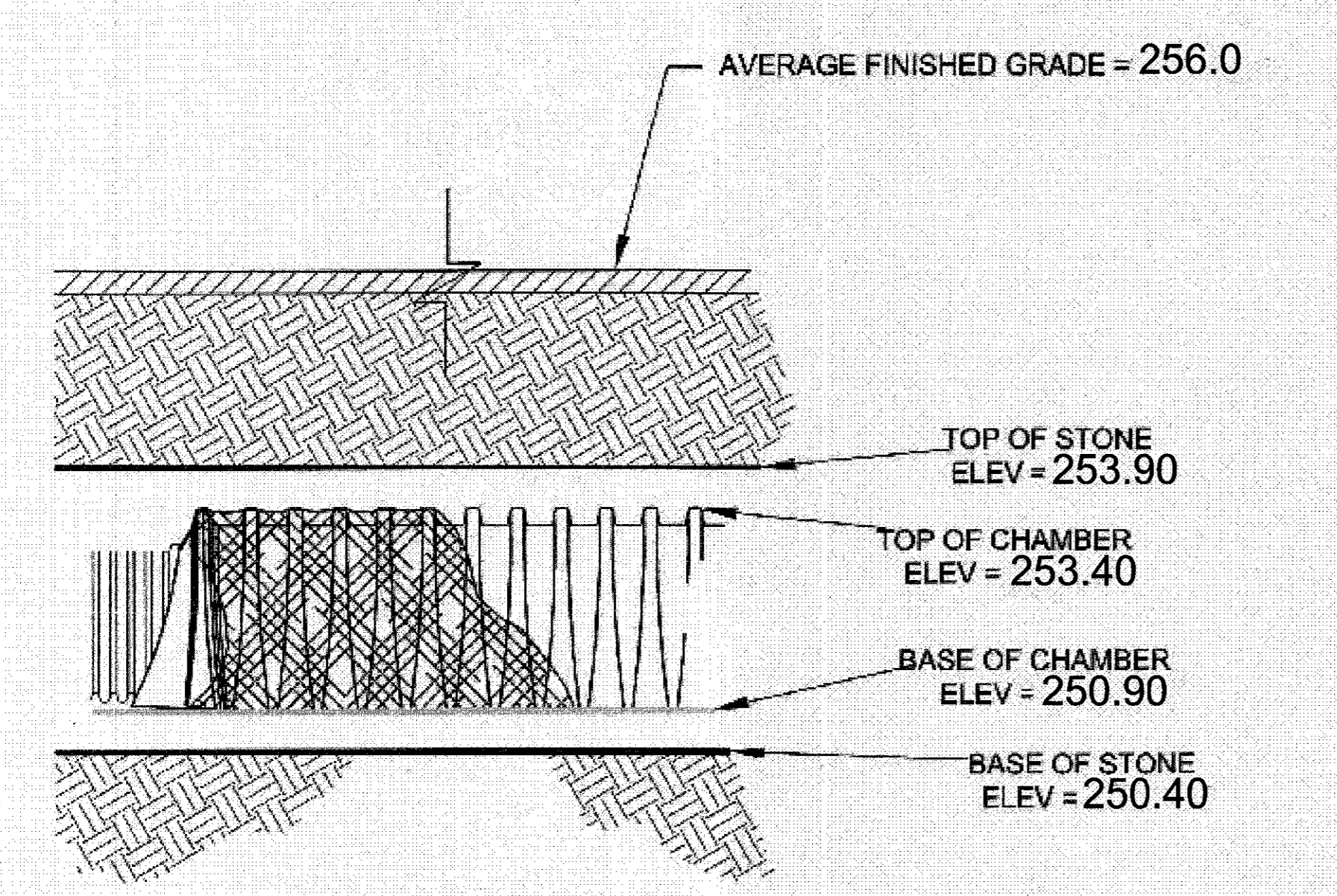


SC-740 INSPECTION PORT DETAIL

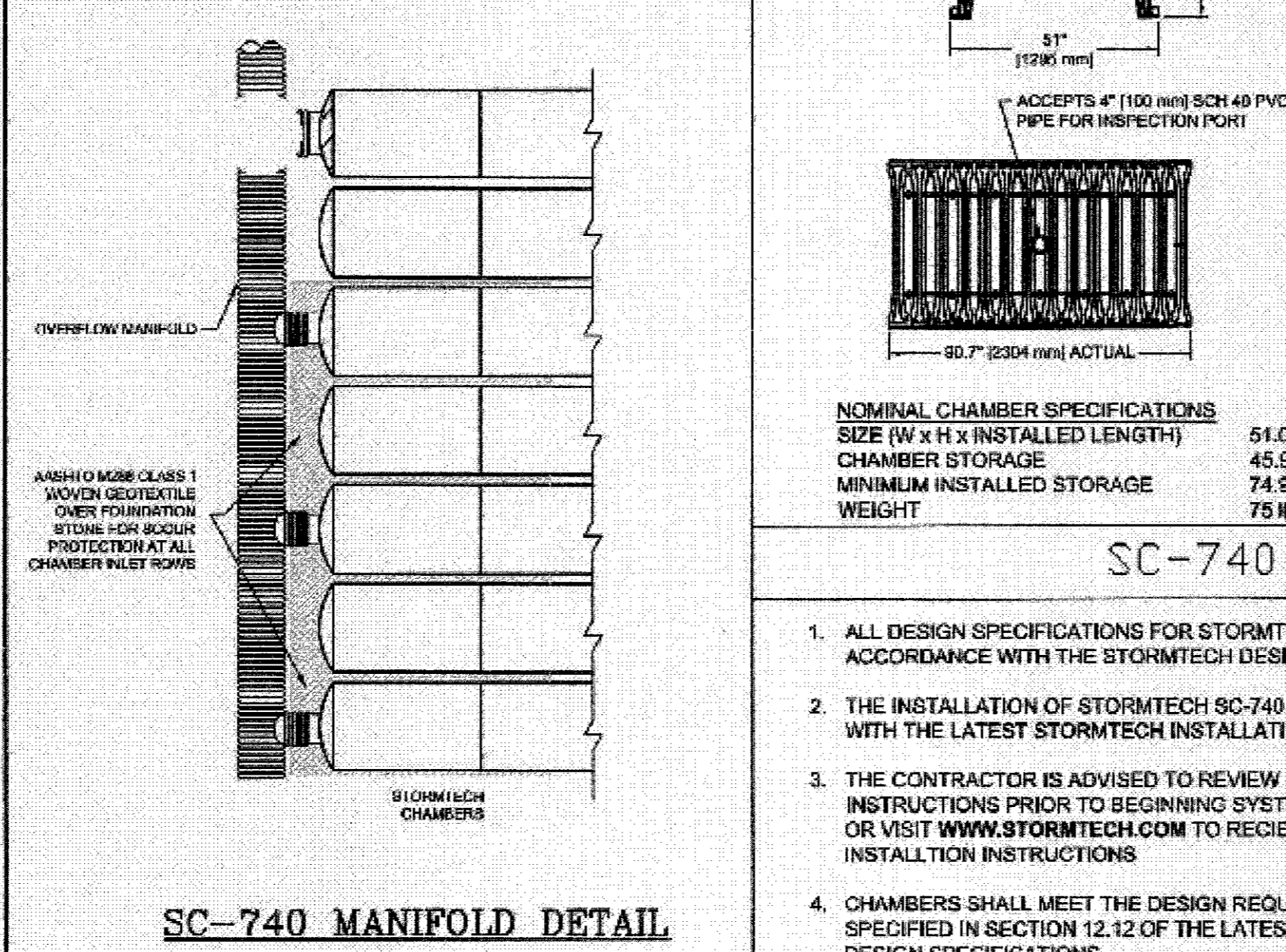


SC-740 ISOLATOR ROW™ DETAIL

MANIFOLDS

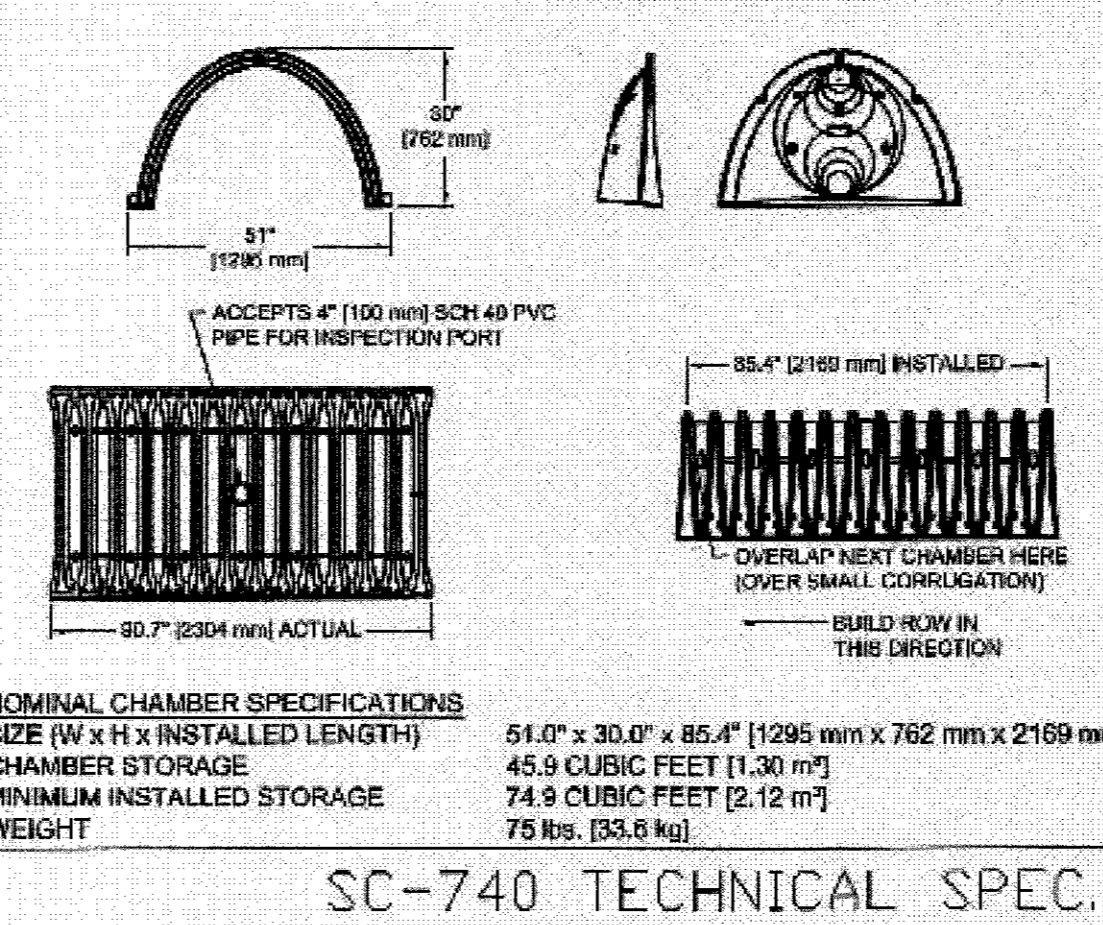


SC-740 ELEVATIONS



SC-740 MANIFOLD DETAIL

SC-740 MANIFOLD DETAIL



SC-740 TECHNICAL SPEC.

- ALL DESIGN SPECIFICATIONS FOR STORMTECH SC-740 CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
- THE INSTALLATION OF STORMTECH SC-740 CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2894 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART#	STUB	A	B	C
SC740EPE06T	6" (150 mm)	10.90" (277 mm)	18.50" (470 mm)	N/A
SC740EPE06B	6" (150 mm)	10.90" (277 mm)	N/A	0.50" (13 mm)
SC740EPE08T	8" (200 mm)	12.20" (310 mm)	16.50" (419 mm)	N/A
SC740EPE08B	8" (200 mm)	12.20" (310 mm)	N/A	0.60" (15 mm)
SC740EPE10T	10" (250 mm)	13.40" (340 mm)	14.50" (368 mm)	N/A
SC740EPE10B	10" (250 mm)	13.40" (340 mm)	N/A	0.70" (18 mm)
SC740EPE12T	12" (300 mm)	14.70" (373 mm)	12.50" (318 mm)	N/A
SC740EPE12B	12" (300 mm)	14.70" (373 mm)	N/A	1.20" (30 mm)
SC740EPE15T	15" (375 mm)	18.40" (467 mm)	8.00" (229 mm)	N/A
SC740EPE15B	15" (375 mm)	18.40" (467 mm)	N/A	1.30" (33 mm)
SC740EPE18T	18" (450 mm)	19.70" (500 mm)	5.00" (127 mm)	N/A
SC740EPE18B	18" (450 mm)	19.70" (500 mm)	N/A	1.60" (41 mm)
SC740EPE24B	24" (600 mm)	18.50" (470 mm)	N/A	0.10" (3 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.
 ALL STUBS, EXCEPT FOR THE SC740EPE24B, ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2894.
 *FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm) BELOW. MATERIAL SHOULD BE REMOVED FROM BELOW THE 12-12 STUB SO THAT THE FITTING SITS LEVEL.



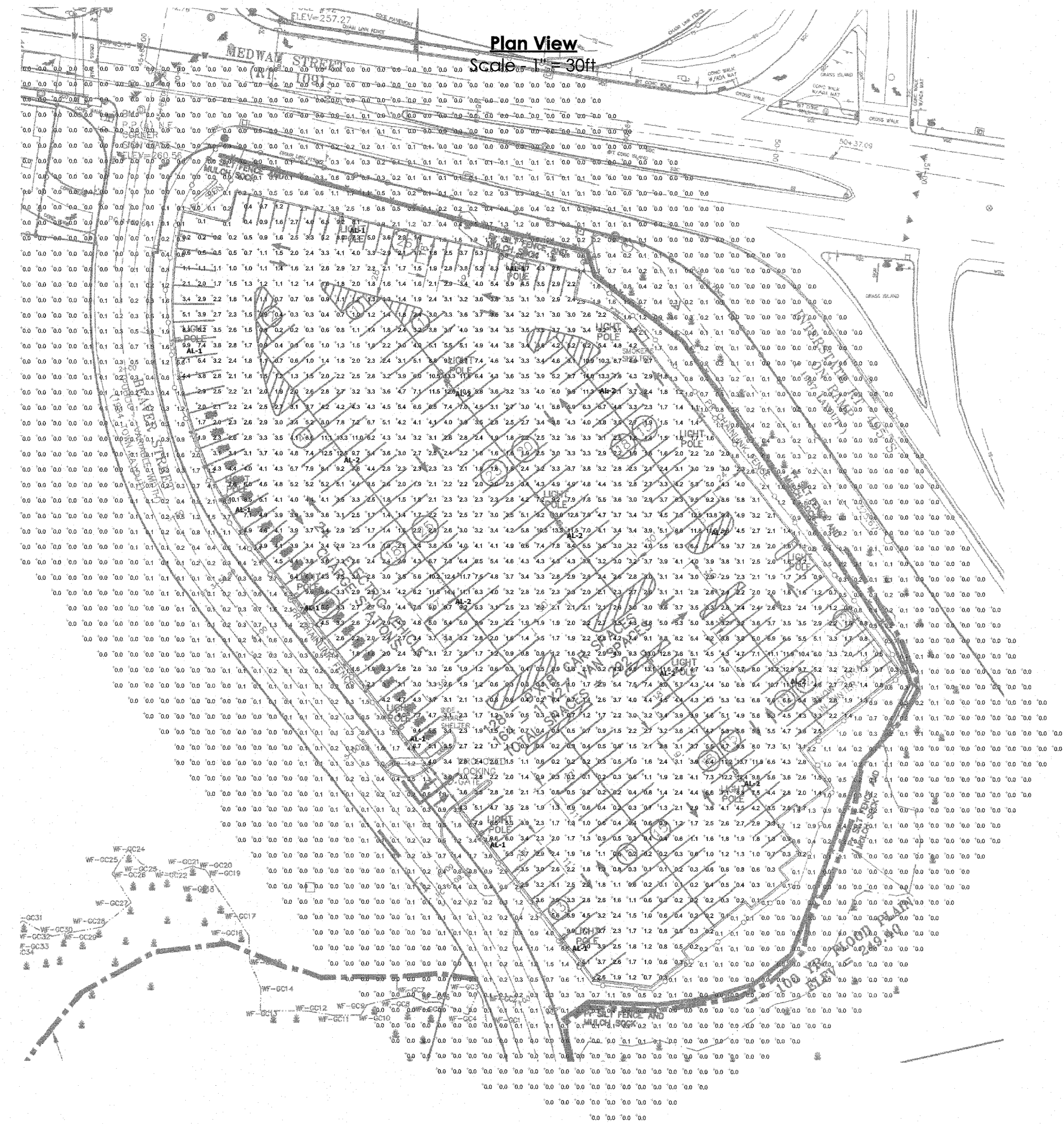
495 TRANSPORTATION TERMINAL II
 26 BEAVER STREET

DETAIL SHEET
 PLAN OF LAND
 IN
 MILFORD, MA

N.T.S.
 DATE: MARCH 2, 2020

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 Engineering & Land Surveying
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 (508) 473-6630 FAX: (508) 473-8243
www.gandhengineering.com



- NOTES:
- REFLECTANCES ASSUMED:
SURFACE: 50
 - MOUNTING HEIGHTS:
AL-1 @ 20'-0" AFG
AL-2 @ 30'-0" AFG
 - TASK HEIGHT: AT GRADE
 - CALCULATION POINT SPACING: 15'X15' OC
 - EXTERIOR CALCULATION

DISCLAIMER:

- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION. VALUES REPRESENTED ARE AN APPROXIMATION GENERATED FROM MANUFACTURERS PHOTOMETRIC IN-HOUSE OR INDEPENDANT LAB TEST WITH DATA SUPPLIED BY LAMP MANUFACTURERS.

STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN
Outer Perimeter	+	0.2 fc	8.8 fc	0.0 fc	N/A	N/A
Parking Lot	+	3.5 fc	14.4 fc	0.1 fc	144.0:1	35.0:1



SCHEDULE

SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	# OF LAMPS	LUMENS PER LAMP	LLF	WATTAGE
□	AL-1	8	Lithonia Lighting	RSX2 LED P3 40K R4 **SINGLE HEAD @ 90° MOUNTED @ 20'-0" AFG**	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R4 Distribution	LED	1	22020	0.9	149.98
□	AL-2	9	Lithonia Lighting	RSX2 LED P3 40K R4 **DOUBLE HEAD @ 180° MOUNTED @ 30'-0" AFG**	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R4 Distribution	LED	1	22020	0.9	299.96

Beaver St Site
08-19-2020

Designer: Robert J. Lindstrom
Date: 11/2/2020
Scale: Not to Scale
Drawing No.
Summary

Agenda Item # 18



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

November 16, 2020

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street, Milford, MA 01757

Re: **3 Gordon Drive (Lot 17)**
Notice of Intent – DEP File #223- _____

Dear Mr. Giampietro:

The submittal is for a Notice of Intent for the installation of an inground pool, retaining wall and associated grading, the applicant is the new home owner of 3 Gordon Drive, Thiago Silva, 3 Gordon Drive, Milford, MA 01757.

Following a review of the submitted documents, I offer the following comments:

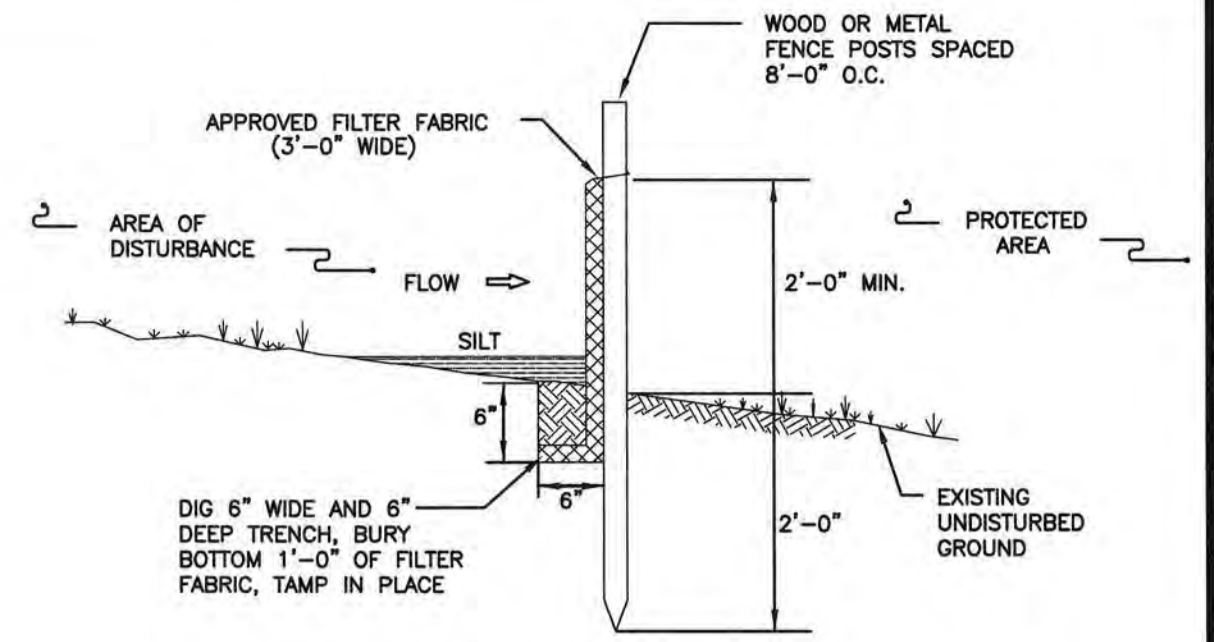
1. The retaining wall shown on the plan has already been constructed and is with in the 100-foot buffer zone. The filing of this NOI will bring the work associated with the retaining wall into compliance.
2. Haybales or mulch sock should be added to the erosion control detail.

I recommend item number two (above) be addressed; I recommend the issuance of an Order of Conditions.

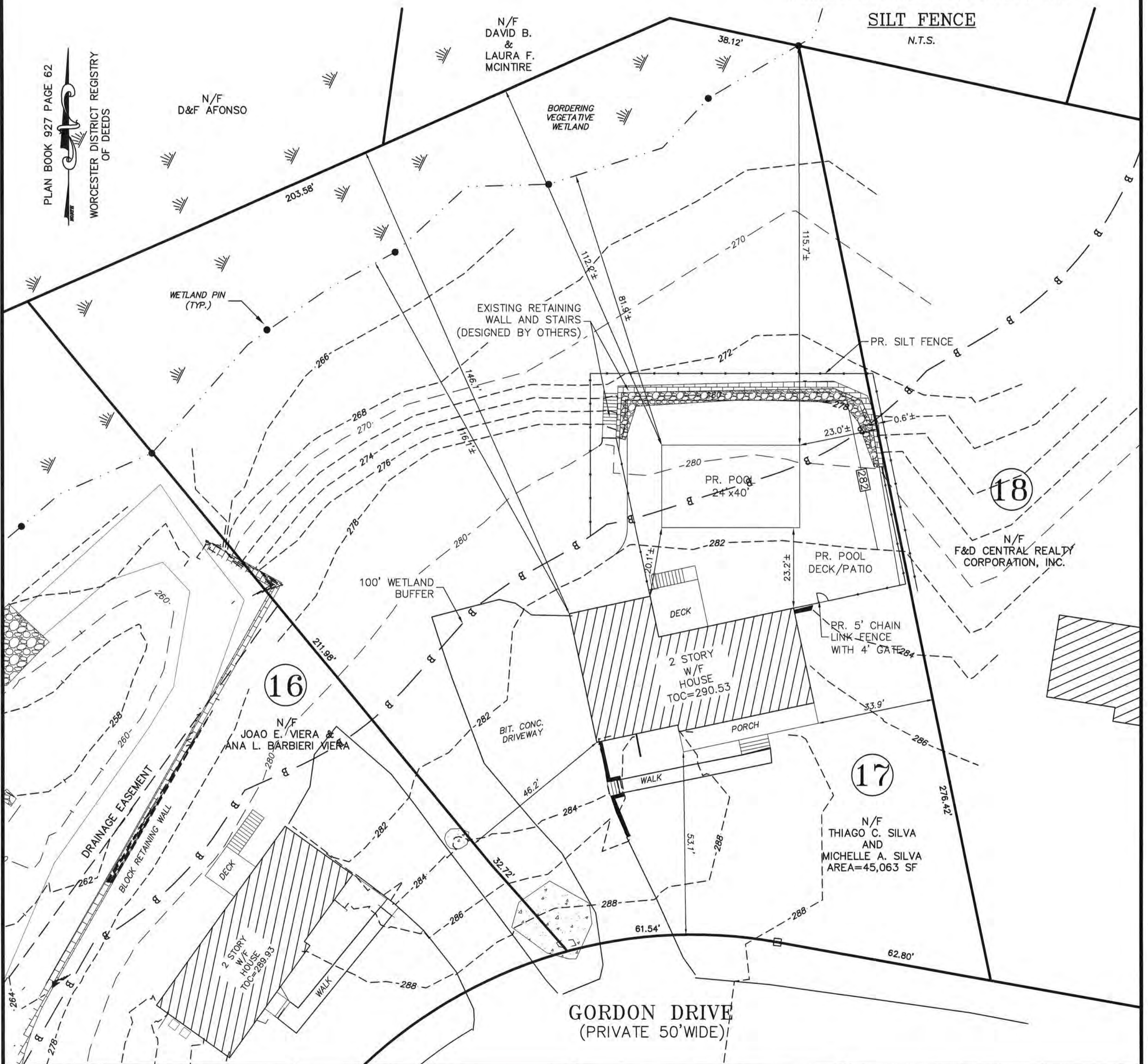
Sincerely,

Michael Dean, P.E.
Town Engineer

MINIMUM ZONING REQUIREMENTS	
ZONING DISTRICT	RC
AREA	45,000S.F.
FRONT YARD SETBACK	30
SIDE YARD SETBACK	20
REAR YARD SETBACK	30



1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE PLAN.
2. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
4. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE CONSERVATION COMMISSION.



C:\3D\Milford\G-5665-1\DWG\Lot 17\G5665 Lot 17 RAP Rev00.dwg



Guerriere & Halon, Inc.
ENGINEERING & LAND SURVEYING
333 WEST STREET MILFORD, MA 01757
PH. (508) 473-6630
FX. (508) 473-8243
www.gandengineering.com



DATE: 11-6-2020



DATE: 11-6-20

OWNER		
THIAGO SILVA 3 GORDON DRIVE MILFORD, MA 01757		
00	11/5/20	INITIAL SUBMITTAL JDF

RESOURCE AREA
PLAN OF LAND
3 GORDON DRIVE
IN
MILFORD, MA
SCALE: 20 FEET TO AN INCH
DATE: NOVEMBER 5, 2020

Agenda Item # 19



OFFICE OF PLANNING
AND ENGINEERING

TOWN OF MILFORD

52 MAIN STREET, MILFORD, MASSACHUSETTS 01757
508-634-2317 Fax 508-473-2394
mdean@townofmilford.com

Michael Dean, P.E.
Town Engineer

December 16, 2019

Mr. Michael Giampietro, Chairman
Conservation Commission
52 Main Street,
Milford, MA 01757

Re: 420- 426- 434 East Main Street - **Notice of Intent**
DEP File # 223- 1174

Dear Mr. Giampietro:

The submittal is a **Notice of Intent (NOI)**, the Applicant is Milford Stone Company, Inc., Joseph F. Shay Jr., Southborough, MA. The NOI is associated with the Gravel / Stone mining operation that has been in existence for many years (2002 – 2003).

Most of the work shown on the plans is “after-the-fact” work, as most of the work has already taken place. The unregulated work has resulted in disturbances to the resource areas on site. This filing is to correct the disturbances and will eventually bring the site in to conformance, in terms of the Wetlands Protection Act. The site is also under a Consent Order / Decree, Commonwealth of Massachusetts (Plaintiff) vs. Milford Stone Company, Inc. (Defendant).

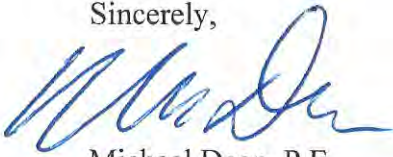
Disturbances include, but not limited to:

- a. Bank associated with a stream Approximately 130 linear feet (L.F.)
- b. Bordering Vegetated Wetlands (BVW)- “**Permanently Alerted**” Approximately 25,167 Square Feet (S.F) – an additional 12,332 S.F. Temporarily altered by sediment and an additional area of 54,167 S.F. by placed fill for a total of 91,666 of altered / disturbed BVW.

- c. Isolated land Subject to flooding (ILSF) – Approximately 496 S.F. has been altered.

Due to the large amount of disturbance to the Resource Areas and the complexity of the restoration process, I recommend the Commission hire a Professional Wetlands Scientist / Environmental Consultant to review the entire submittal and to work closely with the Town and the Applicant to ensure the proper conditions are placed in the Order of Conditions to ensure proper permitting, inspections during restoration and post restoration. All Expenses are to be paid for by the applicant.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michael Dean".

Michael Dean, P.E.
Town Engineer

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

November 27, 2019

Milford Conservation Commission
52 Main Street
Milford, MA 01757

Re: Notice of Intent (NOI) Filing – 429 East Main Street
Applicant: Milford Stone Company, Inc.

Dear Commission Members:

Enclosed please find two (2) copies of the WPA – NOI Form with required attachments and two (2) copies of supporting plans filed under the Massachusetts Wetlands Protection Act a on behalf of the Applicant and Owner for the above referenced property. The applicant is seeking an after-the-fact Order of Conditions for a gravel/stone mining facility to include existing and future operations within the Buffer Zone to BVW. The applicant also proposes the restoration and replacement of altered BVW, ILSF and Bank, and the replacement of an existing stream crossing in accordance with the Mass. Stream Crossing Standards.

The filing is comprised of:

1. The WPA Form 3 -NOI Form with required attachments;
2. The NOI Wetland Fee Transmittal Form and photocopy of checks;
3. Notification to Abutters letter with Milford Assessor's Abutter list;
4. WPA filing fee check to the Town of Milford in the amount of \$1,712.50;
5. Legal ad fee check to Town of Milford in the amount of \$85.00;
6. Wetland Resource Evaluation, 429 East Main Street, Milford, MA, prepared by EcoTec, Inc., dated 11/19/19;
7. U.S. District Court for the District of Mass. – Consent Decree
8. Site Plans prepared by McClure Engineering, Inc., dated 11/25/19;

One (1) copy of the filing has also been sent certified mail/return receipt to the DEP Central Regional Office.

We look forward to discussing this project with the Commission at the December 18, 2019 public hearing. If you have any questions, please feel free to contact me at any time.

Sincerely,



Scott Jordan
Senior Environmental Scientist