

Town of Milford Meeting Notice

MILFORD TOWN CLERK
2021 APR 15 AM 9:48

Board or Commission: Conservation Commission

Date and Time of Meeting: Wednesday April 21, 2021 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/5npvtz> 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 Review and Approve minutes

General Business

1. **Request for Orders of Condition Extension DEP#223-1145** Route 16 & 140 Mass Dep
2. **Request for Certificate of Compliance DEP#223-1103** 21 Beaver St 85 Realty Corp.
3. **Request for Certificate of Compliance DEP#223-1132** (Lot 25A) 21 Beaver St 85 Realty Corp.

Public Hearings

Notice of Intent DEP#223-1189 77 Camp Street Christopher Vine (Withdraw Application)

4. **Amended Order of Conditions DEP#223-1171** 5-7 Industrial Way sira Naturals
5. **Continuation Notice of Intent DEP#223-1185** 21 Beaver St. 85 Realty Corp.
6. **Notice of Intent DEP#223** 31 Debbie Lane Ambassador Pools

Signature



Dated

4/15/2021

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.

Minutes

March 17, 2021
MINUTES

Chairman Giampietro called the meeting of the Milford Conservation Commission to order via remote participation at 7:01 P.M. Members in attendance via remote participation were Joseph Zacchilli, Domingo Roda, Derek Atherton, Paul Braza, and Noel Bontempo. Also present was Town Engineer Michael Dean. Missing was Ed Ross.

7:02 P.M. - Motion by Zacchilli/ Bontempo to approve minutes. Un.5

Chairman abstains.

7:03 P.M.- Tax title parcels for Town Meeting

Motion by Zacchilli/ Braza to allow parcels to be in possession of the Conservation Commission. Un. 6

7:06 P.M- Partial Certificate of Compliance- DEP#223-1122 10 Kate Lane Snowflake LLC

Present at hearing was Mark Allen from Allen Associates.

Chairman Giampietro read town engineers report.

Motion by Zacchilli/ Roda to issue a partial certificate of compliance. Un. 6

Member Braza abstains

7:08 P.M.- Partial Certificate of Compliance -DEP# 223-1122 5 Megan Court Snowflake LLC

Present at hearing was Mark Allen from Allen Associates.

Chairman Giampietro read town engineers report.

Motion by Zacchilli/ Roda to issue a partial certificate of compliance. Un. 6

Member Braza abstains

7:10 p.m.- Determination of Applicability- Louisa Lake and Dilla St Milford Parks Department

Present at meeting was Jim Asam Parks Director, Parks Commissioner Joseph Arcudi AND Avery Jenkins Designer.

Mr. Asam gave an overview of Course.

Member Zacchilli concerned with how far coarse is from residential homes.

Mr. Every stated about 400 feet.

Member Bontempo questioned some of coarse holes and their placement and number of trees that will be cut down.

Chairman Giampietro questioned who will oversee this project. And hours of operation.

Chairman Giampietro stated would not be favor of disc golf being played in the months of October, November, and December.

Mr. Asam stated the responsibility of overseeing project will be the Milford Parks department.

Town Engineer recommends a negative determination based on his findings.

Motion by Zacchilli to continue hearing to allow commission to do a site walk/
Bontempo.

Site Walk will be scheduled for Monday March 22nd. At 4:00pm.

Member Braza abstains.

8:21 P.M.- Determination of Applicability- 211 Purchase Street Kimberly Johnson.

Present was Kimberly Johnson's applicant.

Ms. Johnson stated proposing to put in an inground pool and remove 3 trees.

Town Engineer stated applicant has submitted plan and recommends a negative determination.

Chairman stated will like siltation barriers installed prior to any work and to consist of silt fence and hay bales.

Motion by Zacchilli/ Roda to close public hearing and issue a negative determination with siltation barriers conditions as proposed by Chairman Giampietro. Un.6

8:30 P.M.- Notice of Intent- DEP#223-1189- 77 Camp Street Christopher Vine

Present at hearing was John Federico from Guerriere & Hanlon.

Mr. Federico stated looking to clear tree line to install 23 foot retaining wall.

Chairman Giampietro concerned with grades and construction sequence.

Motion by Zacchilli/ Braza to continue hearing. Un. 6

8:45 P.M.- Notice of Intent DEP#223- 1190 9 Barbara's Way Caterina Gomes

Present at hearing Kendel Saint Maria from Guerriere & Hanlon

Ms. St. Maria stated proposing to construct a new driveway and retaining wall to include erosion control and construction sequence per Town Engineers recommendations.

Town Engineer stated recommends construction details and add haybales.

Motion by Zacchilli/ Bontempo to issue a notice of intent with town engineers' conditions. Un.6

8:50 P.M- Member Zacchilli discussed stocking of Milord Pond and Louisa Lake

Motion by Braza/Roda to stock both Milford Pond and Louisa Lake on May 7th. Un. 6

8:52 P.M.- Motion by Braza/ Roda to adjourn. Un.6

Minutes Recorded by:
Loriann Braza

MILFORD CONSERVATION COMMISSION

Agenda Item #1



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

April 16, 2021

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

Re: Request for **Extension Permit** to an Order of Conditions (OOC) - **DEP File #223- 1145**
Route 16 (Main Street) & Route 140 (Prospect St. & Cape Rd.)

Dear Mr. Giampietro:

The submittal is a Request for an **Extension Permit** to an Order of Conditions (OOC) – **DEP File #223- 1145**. The OOC is associated with the Route 16 (Main Street) and Route 140 (Prospect Street & Cape Road) project, which is currently under construction.

The Town of Milford has been working with MassDOT who is providing construction funding and administration (for the project) as a Traffic Improvement Project (TIP).

I recommend a two- or three-year extension to the current Order of Conditions which is set to expire on 6/22/2021.

Sincerely,

Michael Dean, P.E.
Town Engineer

Agenda Item #2



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

April 20, 2021

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

Re: Request for Certificate of Compliance – **21 Beaver Street**
DEP File # 223- 1103

Dear Mr. Giampietro:

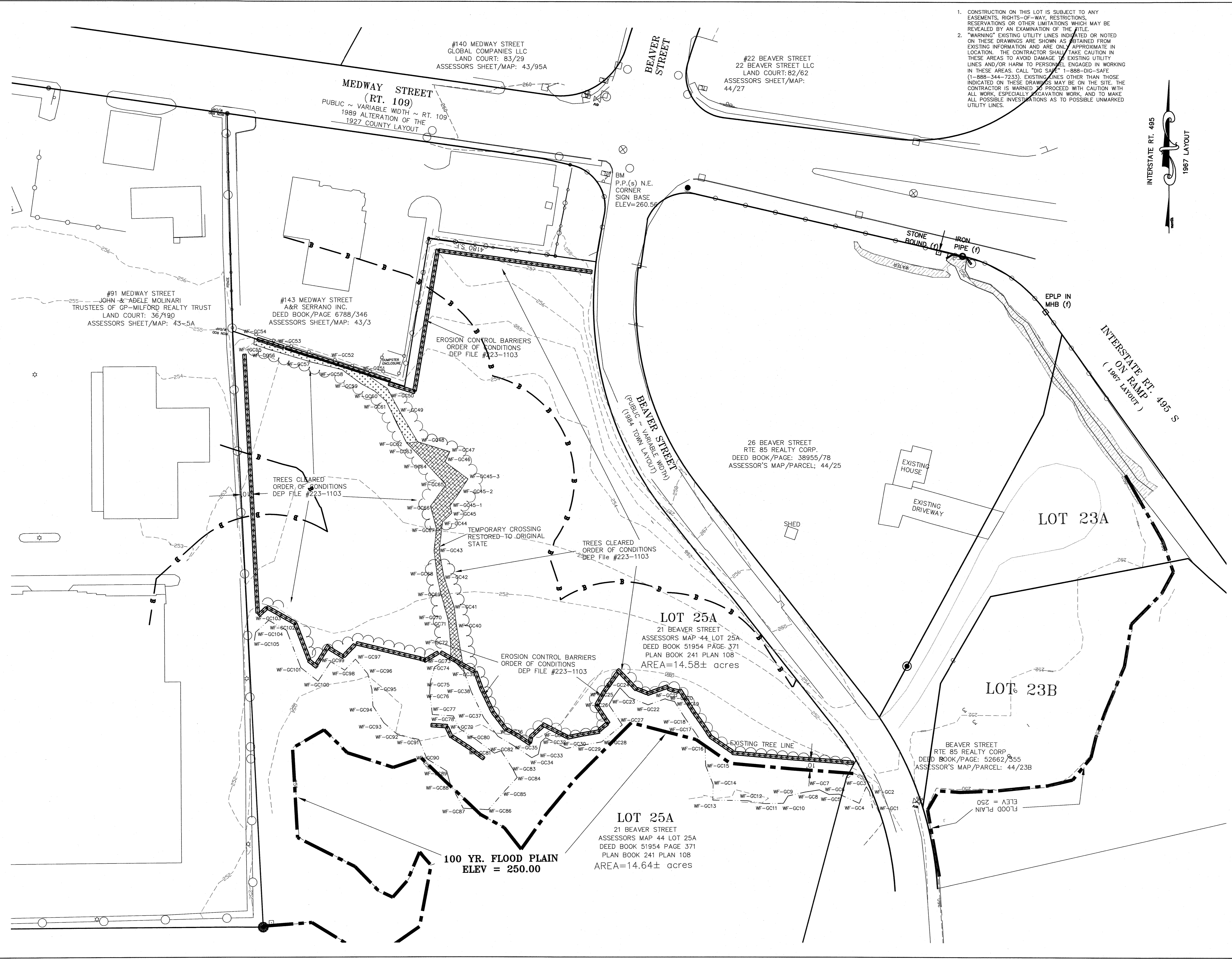
I have reviewed the request for a Certificate of Compliance to the Order of Conditions, DEP File # 223-1103. This particular request is associated with the first Order of Conditions (for the Parcel) that was issued in October 2016. This was for the clearing of trees and site preparation of a commercial lot.

The work has been completed and the Order of Conditions has expired.

I recommend the issuance of a Certificate of Compliance for DEP File # 223-1103.

Respectfully,

Michael Dean, P.E.
Town Engineer



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.

"I HEREBY CERTIFY TO THE MILFORD CONSERVATION COMMISSION THAT THE WORK SHOWN HEREON IS IN SUBSTANTIAL COMPLIANCE WITH THE ORDER OF CONDITIONS DEP FILE #223-1103"
 4/20/21

- 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.
 - 6) SEE ORDER OF CONDITIONS DEP FILE #223-1103 RECORDED IN THE WORCESTER DISTRICT REGISTRY OF DEEDS BOOK 56256, PAGE 120.
 - 7) EXISTING CONDITIONS DEPICTED HEREON ARE IN RELATION TO WORK COMPLETED UNDER DEP FILE # 223-1103 BASED ON AVAILABLE AS-BUILT INFORMATION COLLECTED BETWEEN AUGUST 2016 AND AUGUST 2020.

LEGEND

---	256	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
⊗		EX. OVERHEAD WIRE
⊗		EX. VERTICAL GRANITE CURB
⊗		EX. TREE LINE
⊗		EX. FLOOD PLAIN
X WF-61		EX. WETLANDS LINE
⊗		WETLANDS FLAG
⊗		WETLANDS SYMBOL
⊗		100' WETLANDS BUFFER
⊗		EXIST. STONEWALL

OWNER

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

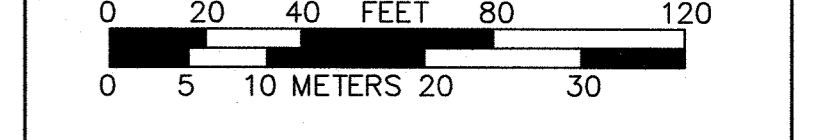
APPLICANT

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

495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET

AS-BUILT
 PLAN OF LAND
 IN
 MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: MARCH 15, 2021

#	DATE	DESCRIPTION	INI



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

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

April 20, 2021

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

Re: Request for Certificate of Compliance – **21 Beaver Street**
DEP File # 223- 1132

Dear Mr. Giampietro:

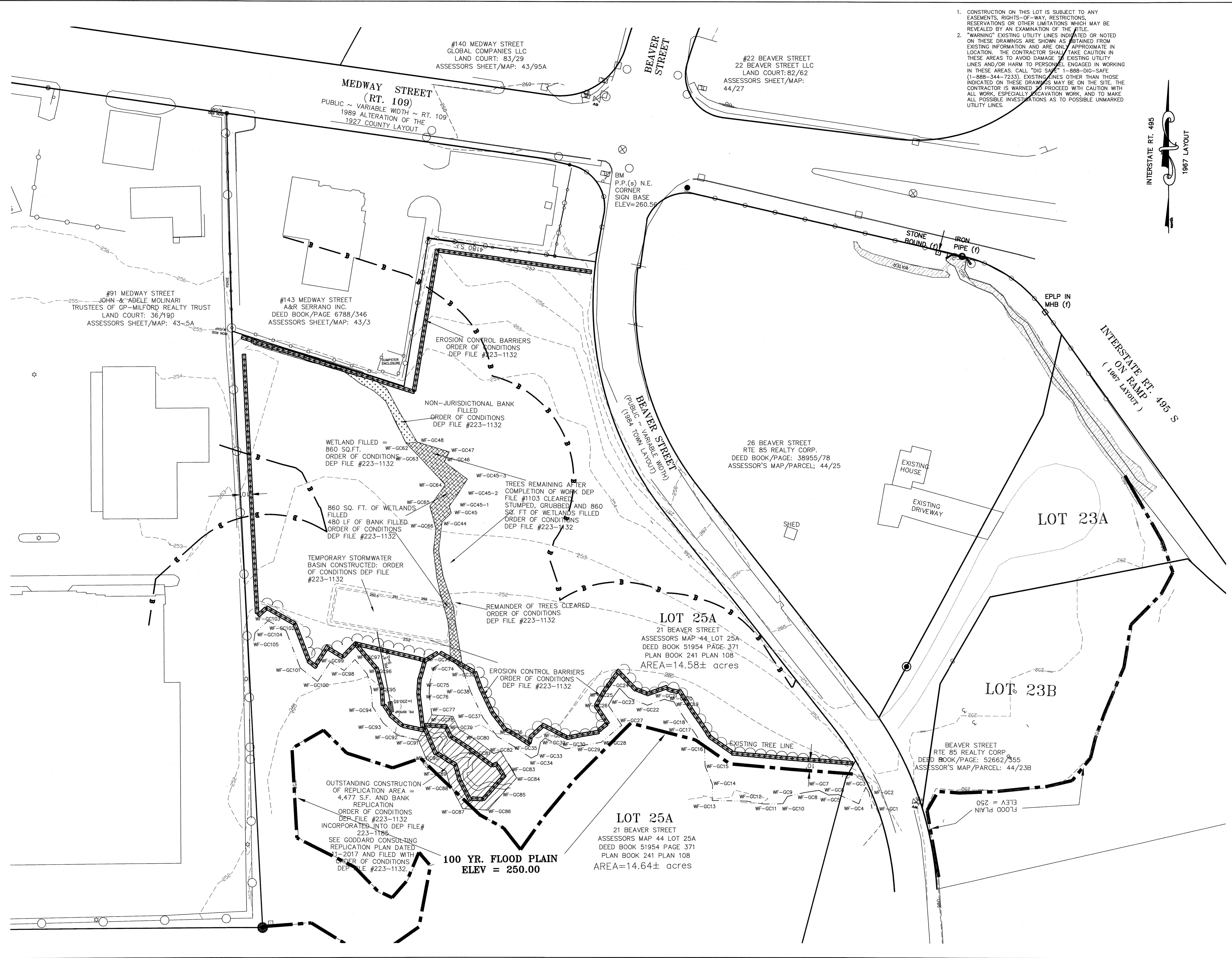
I have reviewed the request for a Certificate of Compliance to the Order of Conditions (OOC), DEP File # 223-1132. This particular request (2nd one) is associated with the 2nd Order of Conditions (for the Parcel) which was issued in November 2017. This was for the filling of wetlands and bank associated with the site preparation of a commercial lot and for the replication of the resource areas.

Portions of the work have been completed and other portions are still ongoing (as part of the 2nd Order of Conditions). The 2nd Order of Conditions has expired and therefore all outstanding work under the 2nd Order of Conditions should be incorporated into the 3rd filing, which is currently in front of the Commission under DEP File # 223-1185. Massachusetts DEP has also requested that all the work (associated with the parcel) be consolidated into one DEP File number / OOC.

I recommend the issuance of a Certificate of Compliance for DEP File # 223-1132 and that this Certificate of Compliance be held until the new / current Order of Conditions (for DEP File # 223-1185) is issued by the Commission and recorded by the Applicant.

Respectfully,

Michael Dean, P.E.
Town Engineer



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.

"I HEREBY CERTIFY TO THE MILFORD CONSERVATION COMMISSION THAT THE WORK SHOWN HEREON IS IN SUBSTANTIAL COMPLIANCE WITH THE ORDER OF CONDITIONS DEP FILE #223-1132 EXCEPT FOR THE WETLAND AND BANK REPLICATION. SEE NOTE #10

4/20/21

- 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.
- 6) SEE ORDER OF CONDITIONS DEP FILE #223-1132 RECORDED IN THE WORCESTER DISTRICT REGISTRY OF DEEDS BOOK 58081, PAGE 209.
- 8) ALL WORK COVERED BY THE ORDER OF CONDITIONS FILE #223-1132 IS SUBSTANTIALLY COMPLETE WITH THE EXCEPTION OF THE WETLAND REPLICATION AREA AND BANK REPLICATION. ISSUANCE OF THE CERTIFICATE OF COMPLIANCE FOR DEP FILE #223-1132 SHALL BE CONDITIONAL UPON THE RECORDING OF A NEW ORDER OF CONDITIONS FOR THE WETLAND REPLICATION AREA AND BANK REPLICATION.
- 9) EXISTING CONDITIONS DEPICTED HEREON ARE IN RELATION TO WORK COMPLETED UNDER DEP FILE #223-1185 BASED ON AVAILABLE AS-BUILT INFORMATION COLLECTED BETWEEN AUGUST 2016 AND AUGUST 2020.
- 10) SEE REPLICATION AREA PLANTING PLAN BY GODDARD CONSULTING INC. DATED 11/01/17 AND FILED WITH ORDER OF CONDITIONS DEP FILE #223-1132.

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
⊕	EX. OVERHEAD WIRE
⊕	EX. VERTICAL GRANITE CURB
⊕	EX. TREE LINE
---	EX. FLOOD PLAIN
---	EX. WETLANDS LINE
X WF-61	WETLANDS FLAG
⊕	WETLANDS SYMBOL
⊕	100' WETLANDS BUFFER
⊕	EXIST. STONEWALL

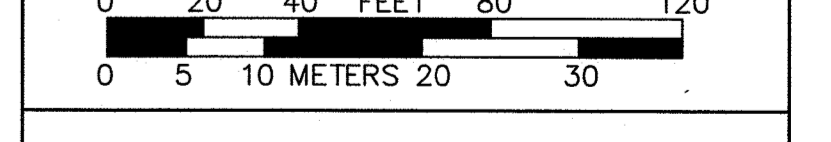
OWNER
ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

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

495 TRANSPORTATION TERMINAL I
21 BEAVER STREET

AS-BUILT
PLAN OF LAND
IN
MILFORD, MA
SCALE: 40 FEET TO AN INCH
DATE: MARCH 15, 2021

#	DATE	DESCRIPTION	INI



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www.gandhengineering.com

Agenda Item

Notice of Intent DEP#223-1189

77 Camp Street (Withdraw Application)



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

April 16, 2021

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

Re: **Withdrawal** of the Notice of Intent DEP File # 223-1189
Expansion of Yard – Grading & Retaining Wall

Dear Mr. Giampietro:

The Applicant has formally **withdrawn** the Notice of Intent (NOI) filing associated with the expansion of a yard area associated with an existing single-family house. The applicant is Christopher Vine, 77 Camp Street, Milford, MA 01757.

The applicant has changed the design plans to reflect a much smaller retaining wall with all of the work being outside of the 100-foot buffer zone to the BVW.

I recommend the commission simply recognize the formal withdrawal of the application.

Respectfully,

Michael Dean, P.E.
Town Engineer



Guerriere & Halnon, Inc.

ENGINEERING & LAND SURVEYING

www.gandhengineering.com

Est. 1972

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333 West Street, P. O. Box 235
Milford, MA 01757-0235
(508) 473-6630/Fax (508) 473-8243

Franklin Office
55 West Central Street
Franklin, MA 02038-2101
(508) 528-3221/Fax (508) 528-7921

Whitinsville Office
1029 Providence Road
Whitinsville, MA 01588-2121
(508) 234-6834/Fax (508) 234-6723

April 15, 2021

Milford Conservation Commission
Town Hall
52 Main Street
Milford, MA 01757

RE: Notice of Intent – 77 Camp Street
DEP File #223-1189

Dear Commission Members,

On behalf of the applicant, Christopher Vine, we are requesting to withdraw our Notice of Intent for the expansion of a lawn area and construction of a retaining wall including the associated grading and landscaping within the 100 ft. buffer of a bordering vegetated wetland. Enclosed, please find one (1) copy of the revised Building Permit Plan of Land showing the proposed work which has been relocated outside of the 100 ft. buffer.

We have also submitted one (1) copy of this letter with the revised plan to the Massachusetts Department of Environmental Protection, Central Regional Office, 8 New Bond Street, Worcester, MA 01606.

If you have any questions concerning this withdrawal, please contact me.

Sincerely,

John Federico
Project Engineer
Guerriere & Halnon, Inc.

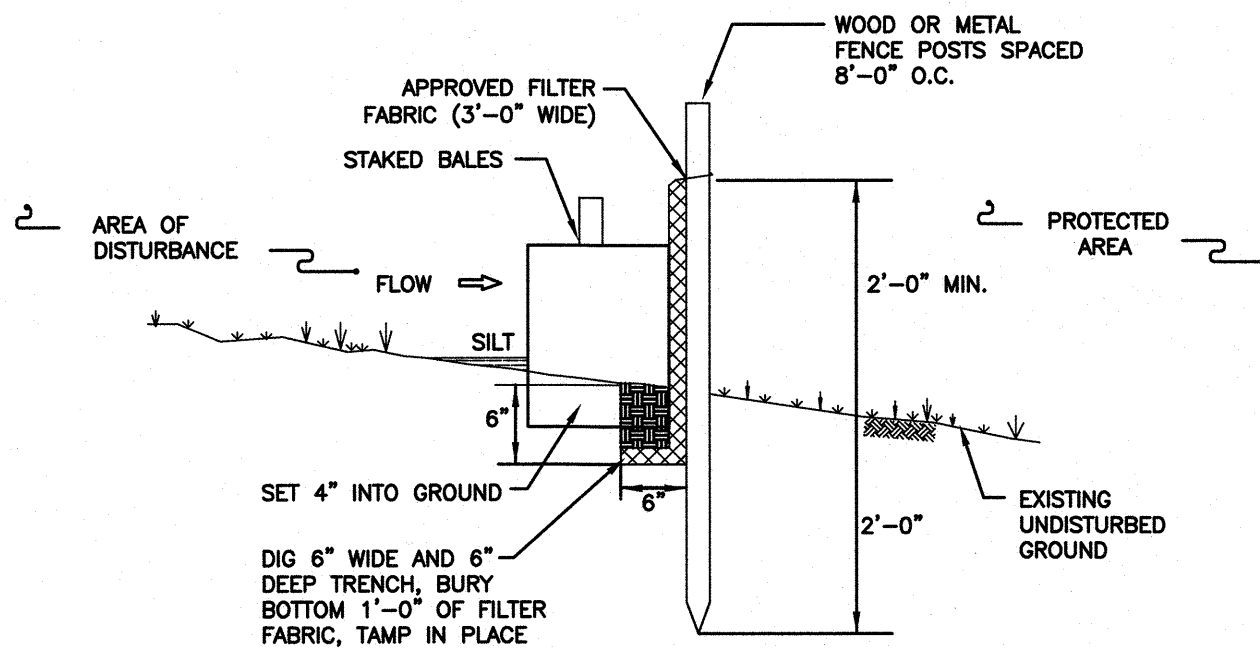
NOTES

1. CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY EXAMINATION OF THE TITLE.
2. THIS IS NOT A RECORDED PLAN. OFFSETS ARE NOT FOR THE REPRODUCTION OF PROPERTY LINES.
3. ELEVATIONS REFER TO ASSUMED DATUM.
4. THIS PLAN REFERS TO ASSESSOR MAP 11, BLOCK 145, LOT 6.
5. SPECIAL FLOOD HAZARD (FEMA) IS NOT APPLICABLE.
6. "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.
7. PROPOSED RETAINING WALL WILL REQUIRE A BUILDING PERMIT AND STRUCTURAL DRAWINGS.
8. WETLANDS DELINEATED BY GODDARD CONSULTING, LLC ON 11/4/2020.

PROPOSED CONSTRUCTION SEQUENCE

(ACTUAL SEQUENCE OF ACTIVITIES TO BE DETERMINED BY THE SITE CONTRACTOR)

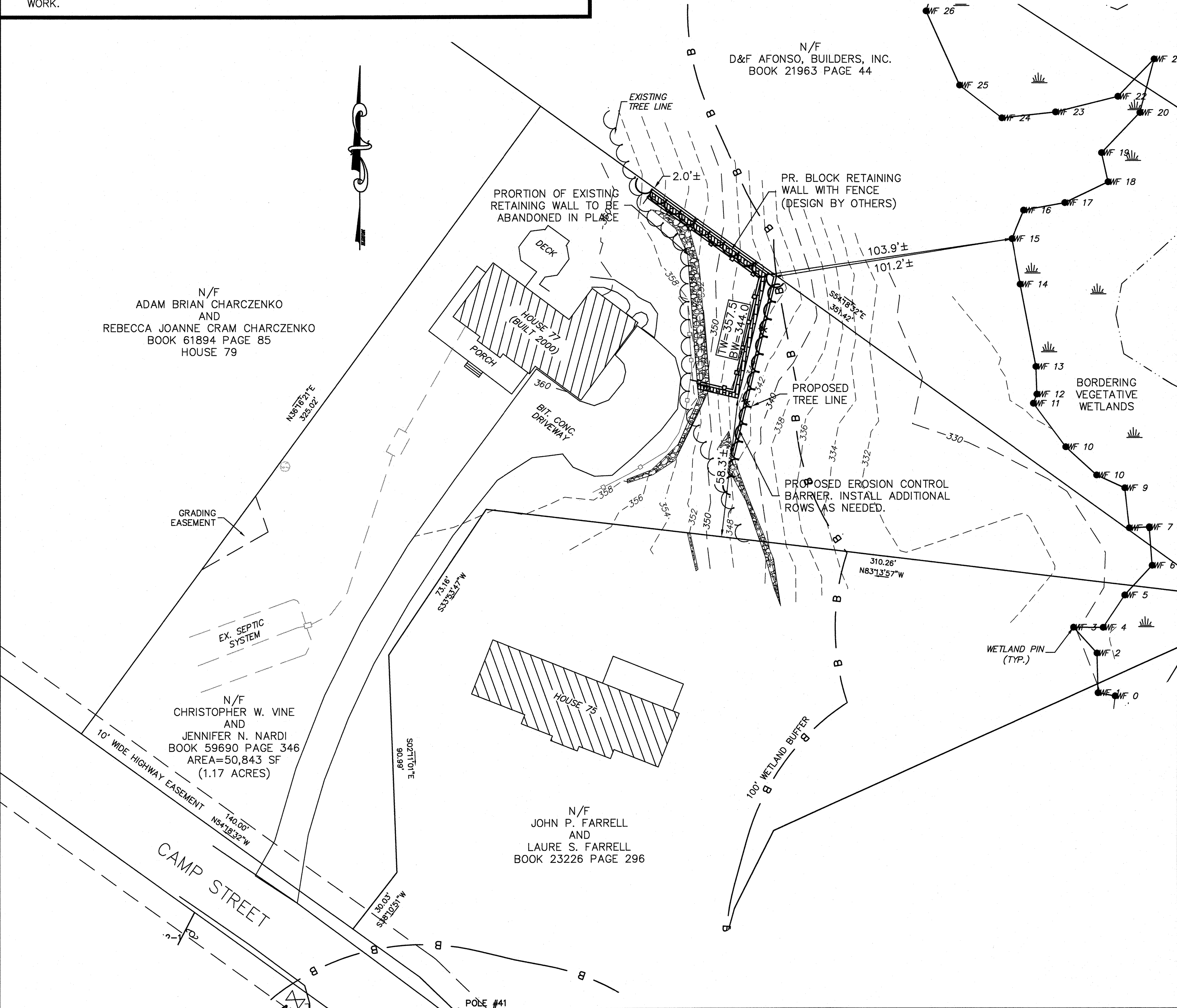
1. INSTALL MASSDEP PERMIT NUMBER SIGNAGE.
2. PRIOR TO ANY WORK ON THE SITE INCLUDING TREE/BRUSH CLEARING, THE APPROVED LIMIT OF CLEARING AS WELL AS THE LOCATION OF THE PROPOSED EROSION CONTROL DEVICES (SUCH AS SILT FENCE/STRAW BALES, ETC.) MUST BE STAKED ON THE GROUND UNDER THE DIRECTION OF A MASSACHUSETTS REGISTERED PROFESSIONAL LAND SURVEYOR.
3. INSTALL EROSION CONTROL BARRIER AT LOCATIONS DEPICTED ON THE PLANS.
4. CONSTRUCT RETAINING WALL AND GEOGRID IN LIFTS. BACKFILLING AND COMPACTION TO OCCUR AS THE WALL IS INSTALLED. REFER TO STRUCTURAL PLANS FOR MANUFACTURER'S RECOMMENDED SEQUENCING.
5. MAINTAIN ALL EROSION CONTROL DEVICES UNTIL SITE IS STABILIZED AND A CERTIFICATE OF COMPLIANCE ARE ISSUED BY THE CONSERVATION COMMISSION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE ANY REQUIRED INSPECTIONS OF HIS/HER WORK.



1. PLACE EROSION CONTROL BARRIERS 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. EROSION CONTROL BARRIERS SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE CONSERVATION COMMISSION.

EROSION CONTROL BARRIER

N.T.S.



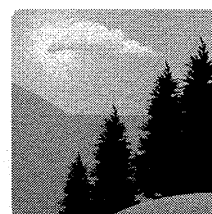
N/F
ADAM BRIAN CHARCZENKO
AND
REBECCA JOANNE CRAM CHARCZENKO
BOOK 61894 PAGE 85
HOUSE 79

N/F
CHRISTOPHER W. VINE
AND
JENNIFER N. NARDI
BOOK 59690 PAGE 346
AREA=50,843 SF
(1.17 ACRES)

N/F
JOHN P. FARRELL
AND
LAURE S. FARRELL
BOOK 23226 PAGE 296

N/F
D&F AFONSO, BUILDERS, INC.
BOOK 21963 PAGE 44

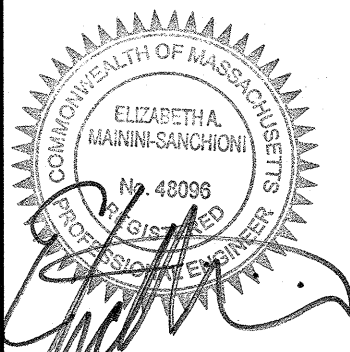
C:\3D\Milford\G-6777\DWG\Design Drawings\G-6777-L6A RAP.dwg



Guerriere & Halnon, Inc.

ENGINEERING & LAND SURVEYING

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



DATE:

DATE: 4-14-21

OWNER			
CHRISTOPHER VINE 77 CAMP STREET MILFORD, MA 01757			
00	2/3/21	INITIAL SUBMITTAL	JDF
ADD CONSTRUCTION SEQUENCE,			
01	4/14/21	REV. WALL LOC./ECB DETAIL	JDF

BUILDING PERMIT
PLAN OF LAND
#77 CAMP STREET
IN
MILFORD, MA
SCALE: 30 FEET TO AN INCH
DATE: FEBRUARY 3, 2021

Agenda Item #4



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
FROM: Michael Dean, P.E. *MD*
DATE: April 20, 2021
SUBJECT: "Sira Naturals" – **Amended** Notice of Intent - Marijuana Grow Facility
5 – 7 Industrial Road

The submittal is for an **Amended** Notice of Intent associated with the construction of a proposed 92,874 S.F. Warehouse – Marijuana Grow Facility off of Industrial Road, which is currently under construction.

The Site was approved by the Commission in June, 2020. The amendment is associated with the addition of proposed retaining walls. The limit of work is the same as the approved plans.

I recommend the issuance of the Amended Notice of Intent.



ALLEN ENGINEERING
& ASSOCIATES, INC.

Civil Engineers, Surveyors &
and Development Consultants

ADDRESS

One Charlesview Road,
Suite 2
Hopedale, MA 01747

PHONE

(508) 381-3212

WEB SITE

www.allen-ea.com

March 8, 2021

Michael Giampietro - Chairman
Town of Milford
Conservation Commission
52 Main Street
Milford, MA

Re: **AMENDED NOI – DEP FILE No.: 223-1171**
“5-7 Industrial Road”
Milford, MA
Parker RE MA, LLC – *Owner*
Sira Naturals, Inc. – *Applicant*

Dear Mr. Giampietro:

In accordance with the Massachusetts Department of Environmental Protection Policy 85-4, Allen Engineering & Associates (AEA) hereby submits a request for an Amended Order of Conditions for the above referenced project.

Special Condition #27 states that an Amended Order of Conditions is necessary if any significant changes are made to the approved plan. The addition of a retaining wall in the northeast portion of the project has triggered this threshold. Enclosed for your review are the following documents:

- * Site Grading & Drainage Plan (1 sheet @24 x 36)
- * Structural Retaining Wall plans (8 sheets @ 8.5 x 11)
- * Abutter's List and Map

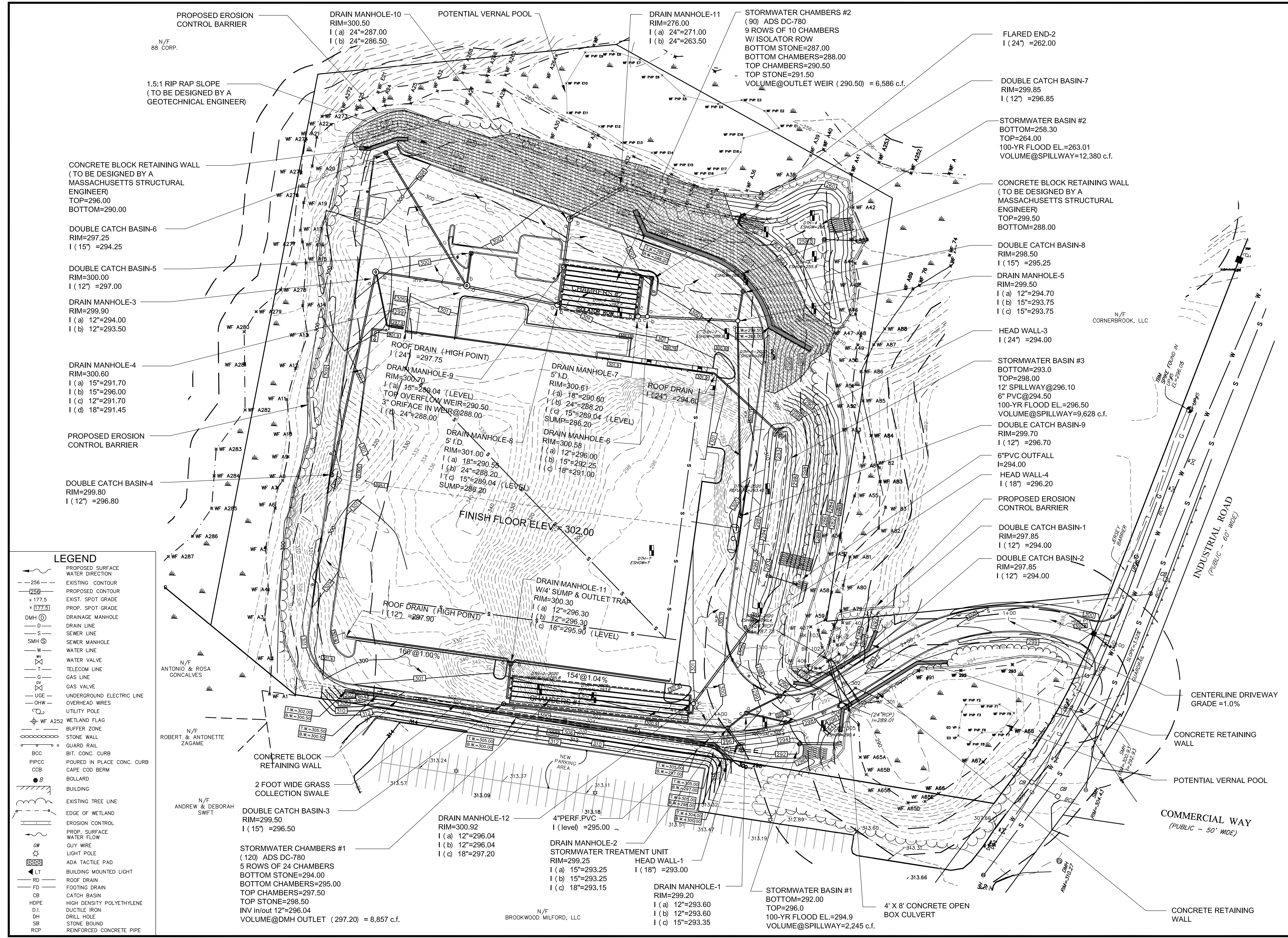
On behalf of the applicant, AEA would like to be placed on the Commission's next available agenda to discuss the modifications. Two copies of this Amended Notice of Intent have also been sent to the Central Regional office of Mass DEP for their review and comment.

Please feel free to call Mark Allen at (508) 381-3212 x 105 if you have any questions regarding this submittal.

Sincerely,
**ALLEN ENGINEERING
& ASSOCIATES, INC.**

Mark E. Allen, P.E.
President

cc. Mass DEP
Sira Naturals



NOTES

1. CONSTRUCTION ON THIS LOT (OR LAND) IS SUBJECT TO ANY EASEMENTS, RIGHTS OF WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.
2. UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED FROM AVAILABLE PLANS FROM PUBLIC AND PRIVATE AGENCIES, OR AS INDICATED BY FIELD OBSERVATIONS AND ARE APPROXIMATE ONLY. ADDITIONAL UNDERGROUND UTILITIES OR STRUCTURES NOT SHOWN HEREON MIGHT EXIST. BEFORE ANY EXCAVATION OR CONSTRUCTION CALL DIG-SAFE AT 811.
3. ALL STORM DRAIN PIPE TO BE HIGH DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE SHOWN.

PREPARED FOR:
Sira Naturals, Inc.
 13 Commercial Way
 In
 Milford, MA 01757



TITLE:
**GRADING,
 DRAINAGE &
 EROSION CONTROL
 PLAN**
 For
**M-3 Marijuana Grow
 Facility**
 On
5-7 Industrial Road
 In
 Milford, Massachusetts

PREPARED BY:

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

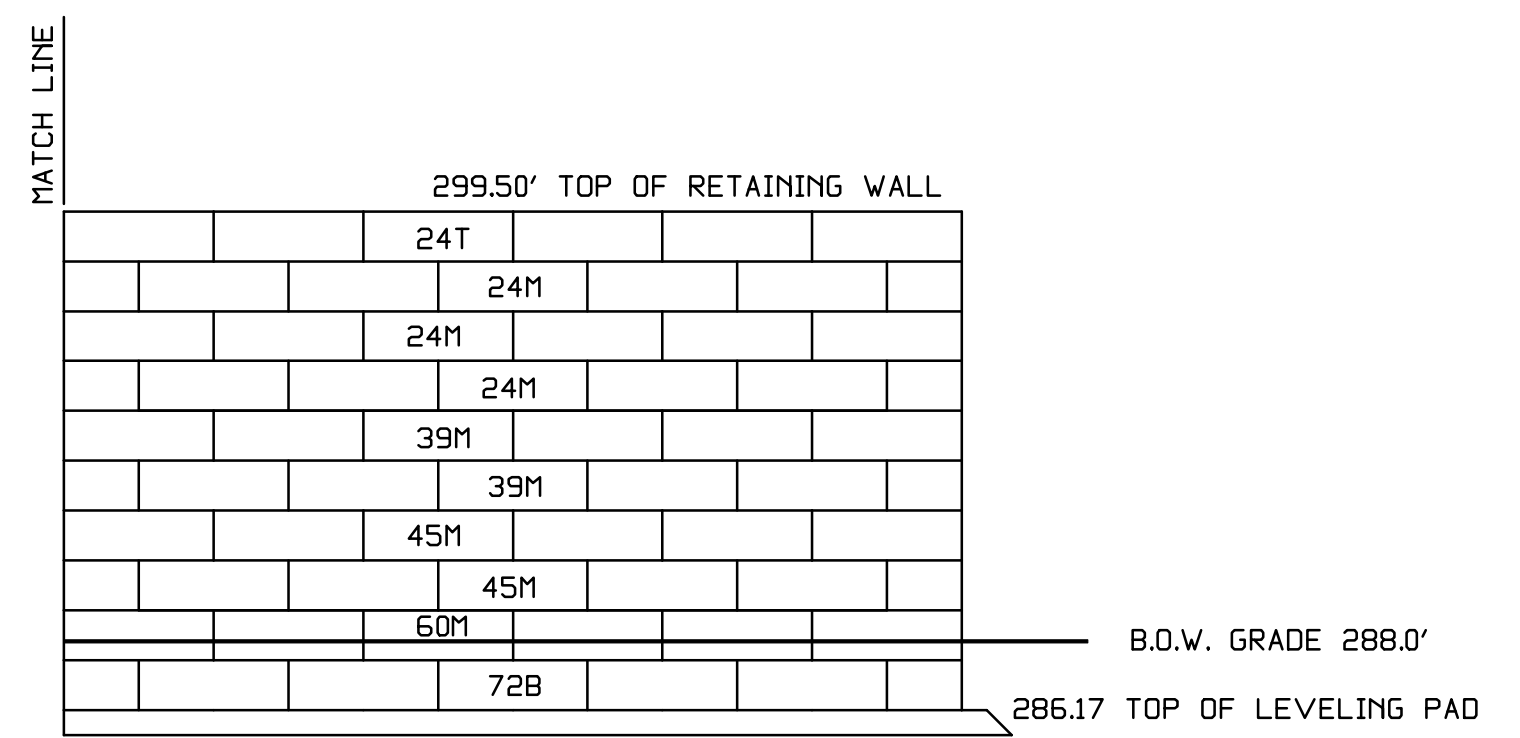
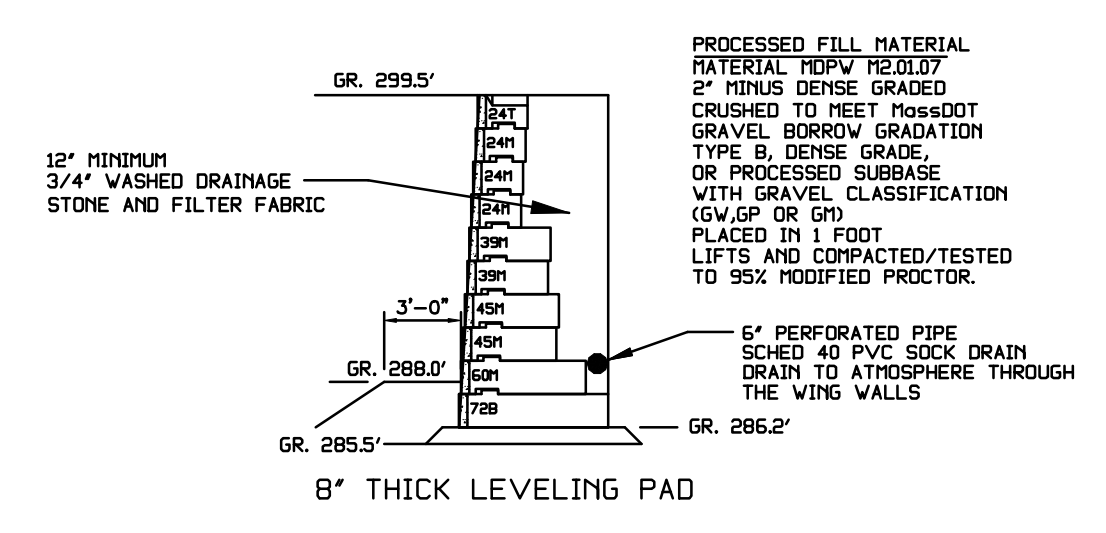
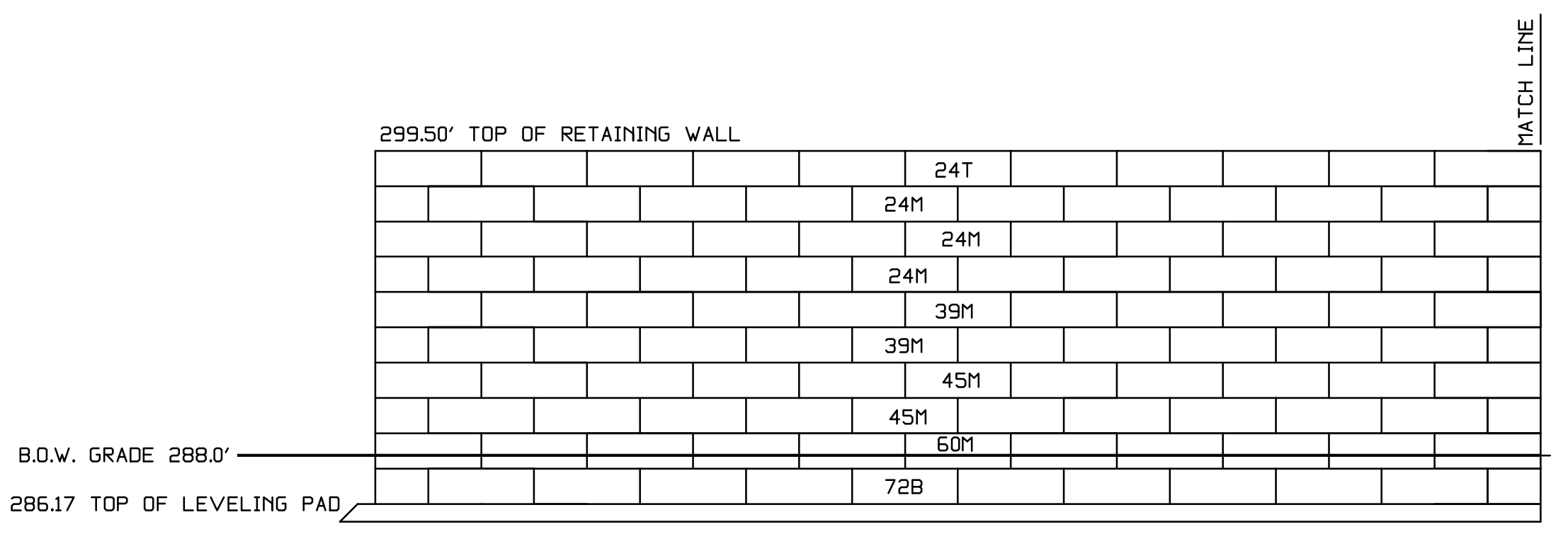
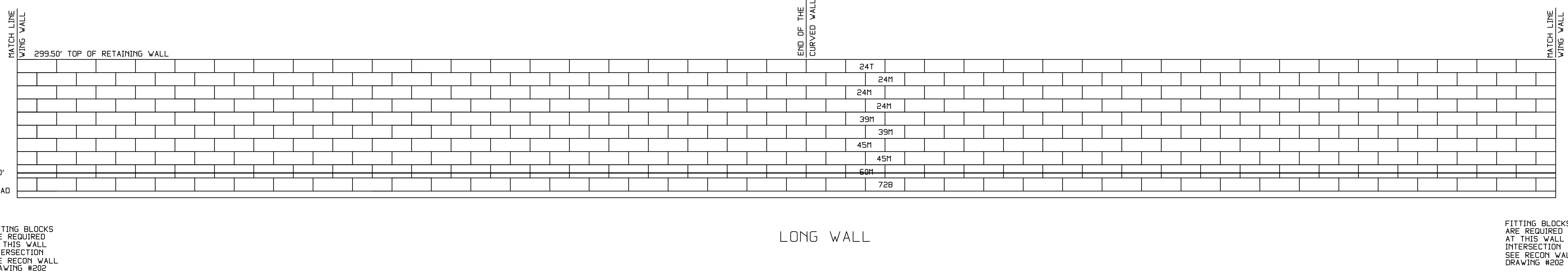
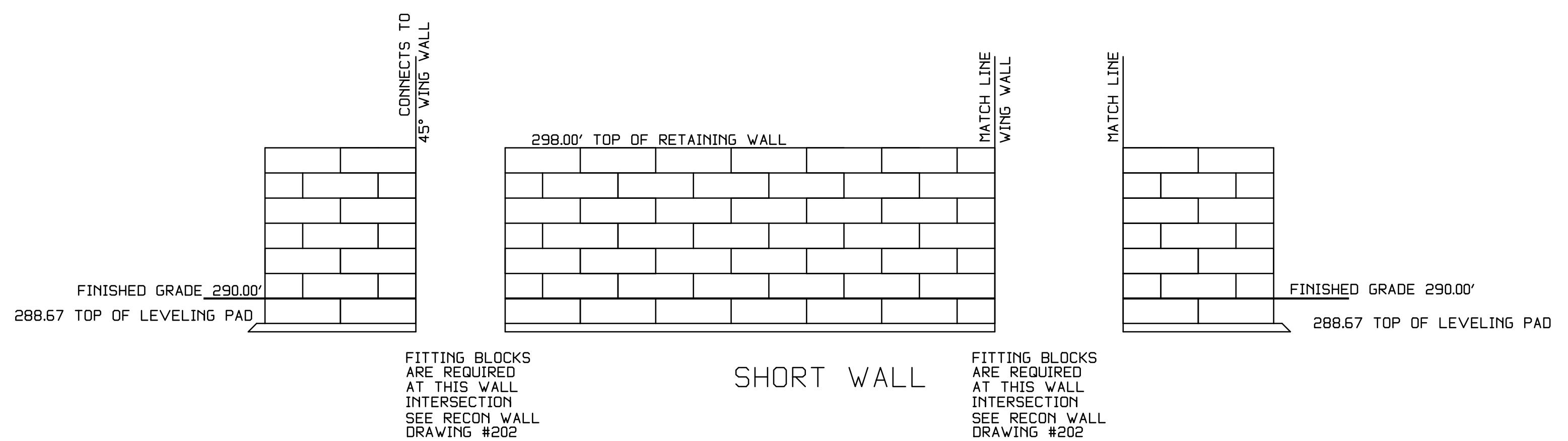
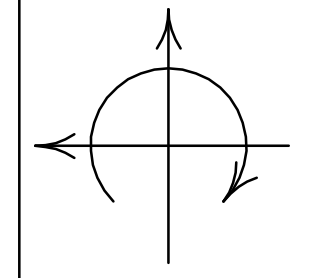
SCALE: 1"=40 FEET
 DATE: March 8, 2021

REVISIONS			
#	DATE	DESCRIPTION	INIT

JOB NO: 00153-M3 SHEET: 1 of 1

LEGEND

- 256--- PROPOSED SURFACE WATER DIRECTION
- 256--- EXISTING CONTOUR
- 256--- PROPOSED CONTOUR
- x 177.5 EXIST. SPOT GRADE
- x 177.5 PROP. SPOT GRADE
- DMH (D) DRAINAGE MANHOLE
- D DRAIN LINE
- S SEWER LINE
- SMH (S) SEWER MANHOLE
- W WATER LINE
- W VALVE WATER VALVE
- T TELECOM LINE
- G GAS LINE
- G VALVE GAS VALVE
- U UNDERGROUND ELECTRIC LINE
- OH OVERHEAD WIRES
- U UTILITY POLE
- WF A252 WETLAND FLAG
- BZ BUFFER ZONE
- ST STONE WALL
- GW GUARD RAIL
- BCC BIT. CONC. CURB
- PIPPC POURED IN PLACE CONC. CURB
- CCB CAPE COD BERM
- B BOLLARD
- B BUILDING
- ET EXISTING TREE LINE
- EW EDGE OF WETLAND
- EC EROSION CONTROL
- WF WATER FLOW PROP. SURFACE WATER FLOW
- GW GUY WIRE
- LP LIGHT POLE
- ADA ADA TACTILE PAD
- BL BUILDING MOUNTED LIGHT
- RD ROOF DRAIN
- FD FOOTING DRAIN
- CB CATCH BASIN
- HOPE HIGH DENSITY POLYETHYLENE
- D.I. DUCTILE IRON
- DH DRILL HOLE
- SB STONE BOUND
- RPC REINFORCED CONCRETE PIPE



WORKSHEET-RETAINING WALLS	SIRA NATURALS M3
DESIGN:MDM	MILFORD, MA
DRAFT:MDM	
DATE:2/22/21	

RECON SERIES 50 INSTALLATION GUIDELINES

ARTICLE 1: BACKGROUND

- 1.1 NATURE OF PROJECT
 - a. THE WORK TO BE PERFORMED INCLUDES SOURCING, PROVIDING, AND INSTALLING CONCRETE RETAINING WALL BLOCKS TO THE LINES AND GRADES AS SPECIFIED ON THE PROJECT CONSTRUCTION DRAWINGS AND AS MAY BE FURTHER SPECIFIED HEREIN.
- 1.2 PROFESSIONAL ENGINEER STANDARDS
 - a. ALL WALLS ARE TO BE BUILT PURSUANT TO A SITE SPECIFIC DESIGN AND ANALYSIS PREPARED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS FAMILIAR WITH THE PRODUCT (THE "WALL ENGINEER").

ARTICLE 2: WALL CONSTRUCTION

- 2.1 EXAMINATION
 - a. VERIFY LOCATIONS OF UTILITIES AND EXISTING STRUCTURES PRIOR TO EXCAVATION.
 - b. EXAMINE THE PROJECT SITE AND EVALUATE CONDITIONS WHERE THE RECON RETAINING WALL WILL BE CONSTRUCTED. NOTIFY THE PROPER SUPERVISING AUTHORITY IN WRITING OF ANY CONDITIONS THAT MAY INTERFERE WITH THE PROPER CONSTRUCTION OF THE RECON WALL OR DELAY COMPLETION.
 - c. PROMPTLY NOTIFY THE WALL DESIGN ENGINEER OF SITE CONDITIONS WHICH MAY AFFECT WALL PERFORMANCE, SOIL CONDITIONS OBSERVED OTHER THAN THOSE ASSUMED, OR OTHER CONDITIONS THAT MAY REQUIRE A REEVALUATION OF THE WALL DESIGN.
- 2.2 EXCAVATION
 - a. THE CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE CAREFUL NOT TO DISTURB BASE BEYOND THE LINES INDICATED.
 - b. FOUNDATION SOIL SHALL BE EXCAVATED AS REQUIRED FOR FOOTING OR BASE DIMENSIONS SHOWN ON THE CONSTRUCTION DRAWINGS, OR AS DIRECTED BY THE WALL ENGINEER.
 - c. OVER-EXCAVATED AREAS SHALL BE FILLED WITH SUITABLE BASE OR BACKFILL MATERIAL AND COMPACTED TO 95% STANDARD PROCTOR.
- 2.3 FOUNDATION SOILS PREPARATION
 - a. FOUNDATION SOIL SHALL BE EVALUATED BY A GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE TO ENSURE THAT THE BEARING SOILS MEET OR EXCEED THE DESIGN CONDITIONS OR ASSUMPTIONS.
 - b. COMPACT FOUNDATION SOIL ZONE TO 95% STANDARD PROCTOR PRIOR TO INSTALLING BASE / LEVELING PAD.
- 2.4 BASE / LEVELING PAD
 - a. BASE SHALL BE LOCATED AS INDICATED ON THE CONSTRUCTION DRAWINGS WITH A MINIMUM THICKNESS OF 6 INCHES. BASE MATERIALS ARE TO BE AS SPECIFIED BY THE WALL ENGINEER (GENERALLY CRUSHED STONE, ¾ INCH MINUS, OR SIMILAR).
 - b. WIDTH OF THE BASE PAD MUST EXTEND A MINIMUM OF 6 INCHES IN FRONT AND 6 INCHES IN BACK OF THE RECON BASE BLOCK FOOTPRINT.
 - c. BASES MATERIAL SHALL BE COMPACTED SO AS TO PROVIDE A SMOOTH, HARD SURFACE ON WHICH TO PLACE THE FIRST COURSE OF UNITS.
 - d. COMPACT BASE MATERIAL TO 95% OF STANDARD PROCTOR.
 - e. BASE SHALL BE PREPARED TO ENSURE FULL CONTACT OF RETAINING WALL UNIT WITH BASE MATERIAL. SPACING OR GAPS BETWEEN UNITS SHALL NOT EXCEED ¼".
 - f. CONTRACTOR MAY ELECT TO SUBSTITUTE A PORTION OF THE SPECIFIED GRANULAR BASE MATERIALS WITH A LEAN, UNREINFORCED CONCRETE TOPPING.
 - g. WHEN A REINFORCED FOOTING IS REQUIRED BY THE CONSTRUCTION DRAWINGS, IT SHALL BE LOCATED BELOW THE FROST LINE.
- 2.5 UNIT INSTALLATION

FIRST COURSE OF UNITS SHALL BE **BASE BLOCK** UNITS AND SHALL BE PLACED IN FULL CONTACT WITH THE BASE MATERIAL. *(CONTRACTOR TIP: THE FIRST COURSE IS THE MOST IMPORTANT TO ENSURE ACCURATE AND ACCEPTABLE RESULTS. CONTRACTOR MAY WANT TO CONSIDER SETTING THE BASE BLOCK SO THAT THE BACK EDGE OF THE BASE BLOCK IS JUST SLIGHTLY (ABOUT ¼" TO ½") LOWER THAN THE FRONT EDGE OF THE BASE BLOCK (THE "TIP BACK"). BY DOING SO, THE WALL CAN ACCOMMODATE A MINIMAL ROTATION FORWARD, SHOULD THIS OCCUR DURING BACKFILL AND COMPACTION. HOWEVER, ON SECTIONS OF THE WALL WHERE THERE ARE SHARP CURVES OR A 90 DEGREE CORNER, THE BLOCKS SHOULD BE PLACED LEVEL FROM FRONT TO BACK WITH NO "TIP BACK". IN ADDITION, IF THE TOP OF THE WALL IS TO BE FINISHED WITH FENCE BLOCK, GUARDRAIL BLOCK, OR A CAPSTONE, THEN AGAIN THE BLOCKS SHOULD BE PLACED LEVEL FROM FRONT TO BACK AND CHECKED PERIODICALLY FOR LEVEL AS THE WALL IS CONSTRUCTED.*

 - h. CHECK UNITS FOR LEVEL FROM SIDE-TO-SIDE, FRONT TO BACK, AND CHECK TO MAINTAIN UNIT BATTER FRONT-TO-BACK.
 - i. PLACE UNIT FACES IN CONTACT SIDE TO SIDE AND AVOID ANY GAPS GREATER THAN ¼".
 - j. FILL AND COMPACT FILL TO GRADE IN FRONT OF EMBEDDED UNITS PRIOR TO COMPACTION BEHIND THE WALL UNITS.
 - k. FILL VOIDS BETWEEN RECON UNITS WITH ¾" CLEAN CRUSHED ROCK TO A DISTANCE OF ONE FOOT BEHIND THE UNIT DEPTH UNLESS OTHERWISE INSTRUCTED IN THE CONSTRUCTION DRAWINGS.
 - l. SWEEP AND CLEAN THE TOP OF EACH COURSE BEFORE SETTING ADDITIONAL COURSES.
 - m. LAY EACH SUCCESSIVE COURSE MAKING SURE THAT THE BOTTOM RECESS IS IN FULL CONTACT WITH THE UNIT LOCATORS OF THE COURSE BELOW. PULL UNIT FORWARD AS FAR AS POSSIBLE. BACKFILL AND COMPACT SOIL BEHIND THE UNITS.
 - n. CHECK AND MAINTAIN LEVEL AND WALL BATTER BY USE OF SHIMS WHEN NECESSARY. THE PREFERABLE SHIM SHALL BE MADE OF A PLASTIC MATERIAL THAT WILL NOT RUST, STAIN, ROT OR LEACH ONTO THE CONCRETE AND THAT HAS BEEN DESIGNED TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
 - o. THE ANCHORS RECESSED INTO THE TOP OF THE BLOCK FOR PLACEMENT OF THE BLOCK IN THE FIELD ARE ENGINEERED TO WITHSTAND TENSION AT A FACTOR OF SAFETY OF AT LEAST 4 TO 1 TIMES THE WEIGHT OF THE BLOCK. NONETHELESS, PROPER HANDLING OF THE BLOCK IS ESSENTIAL FOR SAFETY.
 - i. WHEN HANDLING BLOCKS WITH A CABLE OR CHAIN, ONE BLOCK AT A TIME IS THE LIMIT.
 - ii. CABLES ARE RECOMMENDED OVER CHAINS, AS THEY HAVE SOME ELASTICITY AND REDUCE THE IMPACT OF DYNAMIC LOADS (SWINGING, BOUNCING, ETC.)
 - iii. WHEN PLACING A RECON BLOCK IN THE FIELD THAT USES TWO ANCHORS FOR PLACEMENT (66", 72", 78" AND 84" DEEP BLOCKS), THE CHAINS OR CABLES USED WHEN LINKED TOGETHER WITH A SINGLE "RING" MUST HAVE A LENGTH ON EACH LEG OF THE CHAIN SUCH THAT THE ANGLE OF THE CHAIN FROM THE HORIZONTAL SURFACE OF THE BLOCK IS 60 DEGREES OR MORE. THIS WOULD MAKE THE CHAIN AT LEAST 48" IN LENGTH.
 - iv. WHEN PLACING A RECON BLOCK IN THE FIELD THAT USES TWO ANCHORS FOR PLACEMENT (66", 72", 78" AND 84" DEEP BLOCKS), THE CHAINS OR CABLES USED MUST BE RATED TO SAFELY LIFT THE WEIGHT OF THE BLOCK PLUS AN ADDITIONAL 40% OF THE WEIGHT OF THE BLOCK (GIVEN THE SHEAR FORCES AT WORK BETWEEN THE TWO PICK POINTS) WITH A FACTOR OF SAFETY OF 5:1.
 - v. WHEN A BLOCK IS TO BE TRANSPORTED OVER A SIGNIFICANT DISTANCE IN THE FIELD, IT IS RECOMMENDED THAT A CABLE BE USED, NOT A CHAIN. THE CABLE HAS SOME "STRETCH" THAT WILL ABSORB AND REDUCE THE DYNAMIC LOADS. KEEP THE SWINGING AND BOUNCING OF THE BLOCK TO AN ABSOLUTE MINIMUM. MOVE SLOWLY DURING SUCH TRANSPORT.
 - i. IF USING A RIGID "PICKING DEVICE" FIXED TO THE FRONT OF A SKID STEER, CARE SHOULD BE TAKEN TO MAKE SURE THAT THE HOOK ON THE END OF THE PICKING DEVICE IS RESTING FREELY IN THE LIFTING ANCHOR / LOOP AND THAT THE SKID STEER OPERATOR DOES NOT TIP THE BLOCK BACK SO THAT THE PICKING DEVICE IS "PRYING UP" ON THE ANCHOR, APPLYING MORE FORCE TO THE ANCHOR THAN THE FORCE THAT WOULD EXIST IF THE BLOCK WAS HANGING FREELY.

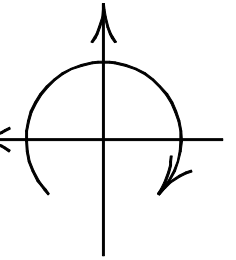
- 2.6 GEOGRID INSTALLATION (WHEN REQUIRED)
 - a. INSTALL GEOSYNTHETIC REINFORCEMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE CONSTRUCTION DRAWINGS.
 - b. LOCATE GEOSYNTHETIC REINFORCEMENT AT ELEVATIONS AND TO THE LENGTHS SHOWN ON THE CONSTRUCTION DRAWINGS.
 - c. PRIOR TO INSTALLATION OF GEOSYNTHETIC REINFORCEMENT, LEVEL AND COMPACT BACKFILL MATERIAL TO THE LEVEL OF THE REINFORCEMENT LAYER.
 - d. REINFORCEMENT DESIGN STRENGTH DIRECTION MUST BE ORIENTED PERPENDICULAR TO WALL FACE.
 - e. POSITION REINFORCEMENT ON RECON UNITS OVER TONGUE AND GROOVE AND TO WITHIN 2" OF THE FRONT EXPOSED FACE. THE NEXT COURSE OF UNITS SHALL BE PLACED SUCH THAT THE GEOGRID IS DEFORMED OVER THE TONGUE AND GROOVE. THIS NEXT COURSE OF UNITS MUST BE SLID FORWARD SUCH THAT THE BACK EDGE OF THE GROOVE ON THIS UNIT IS UP AGAINST THE BACK EDGE OF THE TONGUE ON THE LOWER UNIT WITH THE GEOGRID PINCHED BETWEEN THE TONGUE AND GROOVE. HOLD IN PLACE BY INSTALLING THE NEXT COURSE OF UNITS.
 - f. REMOVE ALL WRINKLES OR FOLDS IN REINFORCEMENT BY PULLING TAUT PRIOR TO BACKFILL PLACEMENT. SECURE USING SOIL STAPLES, STAKES OR HAND TENSION UNTIL REINFORCEMENT IS COVERED WITH SUFFICIENT FILL TO MAINTAIN TENSIONED POSITION.
 - g. REINFORCEMENTS SHALL BE CONTINUOUS THROUGHOUT THE EMBEDMENT LENGTH. SPLICING ALONG REINFORCEMENT STRENGTH DIRECTION IS NOT ALLOWED.
 - h. POSITION REINFORCEMENT SECTIONS SIDE-BY-SIDE TO PROVIDE 100% COVERAGE ALONG WALL FACE.
 - i. WHERE CURVED WALL SECTIONS CAUSE OVERLAP AREAS IN REINFORCEMENT, MAINTAIN AT LEAST 3" OF SOIL BETWEEN LAYERS WHERE OVERLAP OCCURS.
- 2.7 REINFORCED BACKFILL PLACEMENT
 - a. WALL FILL MATERIAL SHALL BE PLACED IN LIFTS NO GREATER THAN 8" IN DEPTH AND SHALL BE LESS IF NECESSARY TO ACHIEVE NECESSARY COMPACTION.
 - b. COMPACT BACKFILL MATERIAL TO 95% OF STANDARD PROCTOR.
 - c. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE USED WITHIN 3 FEET OF THE BACK OF THE RECON UNITS. HEAVY-DUTY COMPACTION EQUIPMENT SHOULD BE KEPT A MINIMUM OF 5' FROM THE BACK OF THE RECON UNITS TO AVOID WALL ROTATION.
 - d. WHEREVER POSSIBLE, BACKFILL SHOULD BE PLACED BEGINNING AT THE FACE OF THE WALL. BACKFILL SHALL BE PLACED, SPREAD, AND COMPACTED IN A MANNER THAT MINIMIZES THE DEVELOPMENT OF WRINKLES, FOLDS OR MOVEMENT OF THE GEOGRID.
 - e. TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM BACKFILL THICKNESS OF 6 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF TRACKED VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING THE GEOGRID.
 - f. RUBBER Tired EQUIPMENT MAY PASS OVER THE GEOGRID REINFORCEMENT AT SLOW SPEEDS, (LESS THAN 10 MPH). AVOID SUDDEN BRAKING AND SHARP TURNING.
 - g. AT THE CONCLUSION OF EACH DAY'S WORK, SLOPE BACKFILL AT BOTH THE CREST AND BOTTOM OF WALL AWAY FROM WALL FACE TO PREVENT SURFACE DRAINAGE FROM SCOURING OR PONDING.
 - h. DURING WALL CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF OTHER PROJECT SITE OPERATIONS SO AS TO AVOID ADJACENT CONSTRUCTION SITE DRAINAGE FROM AFFECTING WALL CONSTRUCTION AREA.
 - i. UPON COMPLETION OF WALL CONSTRUCTION WORK, THE GENERAL CONTRACTOR SHALL:
 1. ENSURE FINISHED GRADING DIRECTS NORMAL DRAINAGE AWAY FROM THE FINISHED WALL.
 2. ENSURE OTHER TRADES DO NOT OPERATE HEAVY EQUIPMENT OR EXCAVATE NEAR THE WALL AND REINFORCED SOIL ZONE.
- 2.9 CURVED WALLS
 - a. FULL BLOCKS CONCAVE / INSIDE CURVES: THE MINIMUM TURNING RADIUS IS ACTUALLY 13' 1 ½". HOWEVER, EACH ROW OF BLOCKS THAT IS ADDED TO THE WALL REQUIRES A SETBACK, AND THUS AS THE WALL HEIGHT INCREASES, THE RADIUS OF THE CONCAVE CURVE GETS LARGER. **FOR EASE OF INSTALLATION** (THUS REQUIRING LESS PRECISION IN THE PLACEMENT OF EACH BLOCK), **IT IS HIGHLY RECOMMENDED** THAT THE RADIUS OF THE BASE ROW OF A MULTIPLE ROW WALL BE NO LESS THAN 15'. AS EACH ROW OF BLOCK IS ADDED, THE RADIUS WILL INCREASE BY 2 INCHES. REFER TO DRAWING # 106 FOR A TABLE OF TOP ROW MINIMUM RADIUS, GIVEN VARYING WALL HEIGHTS.
 - b. FULL BLOCKS CONVEX / OUTSIDE CURVES: THE MINIMUM TURNING RADIUS IS 13' 1 ½" FOR A ONE ROW WALL. HOWEVER, SINCE EACH ROW OF BLOCKS THAT IS ADDED TO A CONVEX CURVE REQUIRES A TIGHTER RADIUS (DUE TO THE SETBACK FOR EACH ROW), IT IS VERY IMPORTANT THAT THE RADIUS OF THE BOTTOM ROW OF BLOCKS NOT BE TOO TIGHT, THUS CAUSING A PROBLEM ON A SUBSEQUENT ROW OF BLOCKS AS THE RADIUS FOR EACH ROW BECOMES TIGHTER. **FOR EASE OF INSTALLATION, IT IS HIGHLY RECOMMENDED** THAT 6" OF RADIUS BE ADDED FOR EACH ROW OF BLOCK ADDED. THUS, THE RADIUS FOR THE FIRST ROW OF A CONVEX WALL MUST BE NO TIGHTER THAN: (A) 14' FOR A 2 ROW WALL; (B) 14.5' FOR A THREE ROW WALL; (C) 15' FOR A FOUR ROW WALL; (E) 15.5' FOR A FIVE ROW WALL; (F) 16' FOR A SIX ROW WALL; (G) 16.5' FOR A SEVEN ROW WALL; AND (H) 17' FOR AN EIGHT ROW WALL. REFER TO DRAWING # 108 FOR A TABLE OF SUGGESTED BASE ROW MINIMUM RADIUS SUGGESTIONS, GIVEN VARYING WALL HEIGHTS.
 - c. THE "LOSS OF RUNNING BOND" ON CURVED WALLS: BECAUSE THE RADIUS OF THE CURVE ON A WALL CHANGES WITH EACH ROW OF BLOCK (IT GETS TIGHTER ON A CONVEX / OUTSIDE CURVE AND IT GETS LONGER ON A CONCAVE / INSIDE CURVE), AS THE BLOCKS PROGRESS ALONG THE CURVE, THEY WILL GRADUALLY WORK FURTHER AWAY FROM THE EXACT MID-POINT OF THE RUNNING BOND. THIS CAN BE MINIMIZED IF THE WALL CAN BE BUILT SUCH THAT EACH NEW ROW OF BLOCK IS BEGUN IN THE MIDDLE OF THE ROW (IF THERE ARE MULTIPLE CURVES IN THE WALL) OR IN THE MIDDLE OF THE CURVE (IF THERE IS JUST ONE CURVE IN THE WALL) SO THAT THE SHIFTING OF THE RUNNING BOND IS SPREAD OUT IN BOTH DIRECTIONS OF THE WALL. IF AS A RESULT OF THE SHIFT OFF OF RUNNING BOND THE BLOCKS DO BEGIN TO BIND AT THE TONGUE AND GROOVE, THE BINDING CAN BE ELIMINATED OR MINIMIZED IF AN INCH OR TWO OF THE BLOCK IS CUT FROM THE FACE, THUS RESTORING THE ROW TO THE MID POINT OF RUNNING BOND. ALSO NOTE THAT A WALL THAT HAS BOTH A CONCAVE AND A CONVEX CURVE WILL HAVE A TENDENCY TO "SELF CORRECT" SOME OF THE "LOSS OF RUNNING BOND" BECAUSE ON THE CONVEX PORTION OF THE CURVE THE RADIUS IS GETTING TIGHTER WITH EACH ROW ADDED WHILE ON THE CONCAVE PORTION OF THE CURVE THE RADIUS IS GETTING LARGER WITH EACH ROW ADDED. IN SUMMARY, PROPER PLANNING OF THE PLACEMENT OF EACH ROW CAN REDUCE THE IMPACT OF "LOSS OF RUNNING BOND" IN CURVED WALLS.
 - d. IF A TIGHTER TURNING RADIUS IS REQUIRED, ONE CAN CONSIDER THE USE OF THE 90 DEGREE CORNER BLOCK TO "STEP A WALL BACK" IN SQUARE CORNERS AS OPPOSED TO CURVES. ALSO, USING A COMBINATION OF HALF, THREE QUARTER, AND/OR FULL BLOCK (ALTERNATING ON EACH ROW BETWEEN A HALF AND A FULL BLOCK OR USING THE THREE QUARTER BLOCK AT THE BEGINNING AND END OF THE CURVE ON EVERY OTHER COURSE OF BLOCK AND HALF BLOCKS THROUGHOUT THE CURVE) WILL REDUCE THE MINIMUM RADIUS.
 - e. HALF BLOCKS HAVE A MINIMUM ONE ROW CONVEX TURNING RADIUS OF 6' 6 11/16" AND A MINIMUM ONE ROW CONCAVE TURNING RADIUS OF 6' 4 5/8".
- 2.10 BASE ROW STEP UP
 - a. AS THE BASE ROW OF THE WALL STEPS UP, PROPER PLACEMENT AND THEN COMPACTION OF THE BASE MATERIAL AT THE POINT OF THE STEP UP IS IMPORTANT. REFER TO DRAWING # 110 FOR A VISUAL EXAMPLE OF A BASE ROW STEP UP.
 - b. WITH EACH ROW OF BASE WALL STEP UP, THE BASE LEVELING PAD SHOULD BE SHIFTED BACK 1 INCH TO ACCOMMODATE THE 1 INCH SETBACK IN EACH ROW OF BLOCK.
 - c. IF A MEASUREMENT FROM THE FACE OF WALL AT THE TOP OF THE WALL IS A CRITICAL MEASUREMENT (FOR EXAMPLE, THERE IS A SIDEWALK OR CURB AT THE TOP OF THE WALL AND THAT SIDEWALK OR CURB NEEDS TO BE EXACTLY 3 FEET FROM FACE OF WALL), THEN CARE MUST BE TAKEN WHEN STAKING THE BASE LEVELING PAD AND WHEN PLACING THE BASE BLOCK. THIS CAN BE SOMEWHAT TRICKY WHEN THE WALL IS LONG AND WHEN THERE ARE MULTIPLE STEP-UPS IN THE BASE OF THE WALL. REMEMBER, PLAN AND MEASURE TWICE, BUILD ONCE!

- 2.11 OUTSIDE 90 DEGREE CORNER
 - a. WHEN BUILDING A WALL WITH AN OUTSIDE 90-DEGREE CORNER, IT IS RECOMMENDED THAT CONSTRUCTION START AT THE CORNER AND WORK AWAY FROM THIS POINT IN BOTH DIRECTIONS. THIS WILL ALLOW FOR PLACEMENT OF THE CORNER BLOCKS SO THAT 1" OF BATTER CAN BE MAINTAINED IN THE WALL IN BOTH DIRECTIONS. ASSUMING THAT BOTH ENDS OF THE WALL RUNNING AWAY FROM THE 90 DEGREE CORNER RUN OUT INTO GRADE, NO BLOCK WILL NEED TO BE CUT IN ORDER TO MAINTAIN THE 1" OF BATTER PER ROW OF BLOCK.
 - b. ONE STANDARD CORNER BLOCK WILL BE USED AT THE CORNER ON EACH ROW OF THE WALL. THE CORNER BLOCKS WILL OVERLAP EACH OTHER AT THE CORNER, COMING TOGETHER IN A "ZIPPER FASHION". **THE CORNER BLOCKS SHOULD BE GLUED AT THE CORNER WHERE THEY OVERLAP WITH A CONCRETE ADHESIVE AND EXTRA DRAINAGE STONE PLACED IN THE CORNER.** REFER TO DRAWING #S 113 AND 114 FOR BLOCK PLACEMENT DETAILS.
 - c. IF, HOWEVER, ONE END OF THE WALL MUST END VERTICALLY BECAUSE IT ABUTS TO AN EXISTING VERTICAL STRUCTURE, OR IF THE WALL HAS TWO OUTSIDE 90-DEGREE CORNERS, THEN BLOCKS WILL NEED TO BE CUT TO MAINTAIN THE 1" BATTER. REFER TO DRAWING #S 116 AND 117 FOR DETAILS ON THE SINGLE OUTSIDE 90 DEGREE CORNER ABUTTING TO AN EXISTING VERTICAL STRUCTURE AND FOR DETAILS ON A DOUBLE OUTSIDE 90 DEGREE CORNER.
- IN LIEU OF MAINTAINING THE 1" OF BATTER AFTER TURNING A 90-DEGREE CORNER, YOU CAN BUILD ONE SIDE OF THE CORNER (SAY SIDE B) VERTICALLY WITHOUT THE 1" BATTER PER ROW OF BLOCK.
 - a. THIS WILL REQUIRE YOU TO CUT 1" OFF THE BACK OF THE TONGUE OF THE FIRST REGULAR BLOCK ADJACENT TO THE CORNER BLOCK IN EACH ROW ON SIDE B OF THE WALL. YOU CAN RE-ESTABLISH THE 1" BATTER ON SIDE B GRADUALLY AS YOU MOVE OUT FROM THE CORNER. HOWEVER, THE WALL ENGINEER MUST TAKE THE ELIMINATION OF THE BATTER INTO ACCOUNT IN THE DESIGN OF THE WALL.
- 2.12 INSIDE 90 DEGREE CORNER
 - a. WHEN BUILDING A WALL WITH AN INSIDE 90 DEGREE CORNER, IT IS RECOMMENDED THAT ONCE THE CONTRACTOR GETS TO THE BASE ROW OF THE INSIDE CORNER, THE CONTRACTOR SHOULD THEN START EACH SUBSEQUENT ROW AT THE CORNER AND LAY BLOCK OUT FROM THE CORNER. REMEMBER, THE BLOCK HAS A 1" SETBACK BUILT INTO IT FOR EACH ROW OF BLOCK. THIS WILL HAVE TWO DIFFERENT EFFECTS ON THE FINISHED WALL. FIRST, AT THE POINT OF THE 90 DEGREE CORNER, THE WALL WILL NOT BE VERTICAL, BUT RATHER THE ACTUAL LINE AT THE CORNER WILL BE LAYING BACK AT THE SAME 3/8 DEGREES OF BATTER AS THE FACE OF EACH OF THE SIDES OF THE WALL THAT COME TOGETHER AT THE CORNER. SECOND, AS EACH NEW ROW OF BLOCK IS PLACED AT THE CORNER, THE BLOCK WILL BE SET BACK NOT ONLY 1" ALONG THE VERTICAL AXIS BUT ALSO WILL BE PLACED 1" INSIDE TOWARD THE CORNER ALONG THE HORIZONTAL AXIS. IF YOU WERE TO FOLLOW THE SECOND ROW OF BLOCK OUT FROM THE CORNER, YOU WOULD SEE THAT THE END OF THIS ROW OF BLOCK IN THE WALL IS 1" SHORTER IN THE HORIZONTAL /LINEAL DIRECTION THAN THE BASE ROW. THE THIRD ROW OF BLOCK WILL BE 2" SHORTER IN THE HORIZONTAL / LINEAL DIRECTION THAN THE BASE ROW, AND SO ON. FOR TALLER WALLS, YOU MAY NOTICE THAT THE "RUNNING BOND JOINT" IS SLIDING OFF CENTER BY 2" FOR EVERY OTHER ROW. THIS IS AN AESTHETIC MATTER, NOT A STRUCTURAL ISSUE.
 - b. IN THE CORNER, THE TONGUE ON THE PORTION OF THE RETAINING WALL BLOCK THAT IS "HIDDEN" MUST BE REMOVED. IT IS PREFERABLE TO USE A RETAINING WALL BLOCK WITH A PORTION OF THE TONGUE REMOVED IN LIEU OF A CORNER UNIT (ESPECIALLY FOR TALLER GRAVITY WALLS). THE USE OF THE RETAINING WALL BLOCK IN THE CORNER PROVIDES FULL ENGINEERED DEPTH OF THE BLOCK AT THE CORNER. IF A CORNER BLOCK IS USED, THEN THE CORNER BLOCKS MUST BE GLUED WHERE THEY OVERLAP. REFER TO DRAWING # 115 FOR BLOCK PLACEMENT DETAILS.
- 2.13 RAILINGS / GUARD RAILS
 - a. THE DESIGN OF A PEDESTRIAN RAILING AND/OR FENCE ATTACHED AT THE TOP OF A RECON RETAINING WALL SHOULD BE COMPLETED BASED UPON THE SITE SPECIFIC CONDITIONS PRESENT FOR EACH PROJECT. A PROPER DESIGN SHOULD CONSIDER, AT A MINIMUM, THE (I) DESIGN LOADING, (II) THE RAILING/FENCE LAYOUT AND ATTACHMENT, AND (III) THE RECON BLOCK CONFIGURATION. CONTACT RECON FOR MORE INFORMATION REGARDING OPTIONS FOR ATTACHING PEDESTRIAN RAILINGS AND / OR FENCES TO THE TOP OF A RECON WALL. ALSO, REFER TO DRAWING SERIES 400 FOR GUIDANCE.
 - b. GUARDRAILS CAN BE INSTALLED BEHIND THE RECON BLOCK. REFER TO DRAWING SERIES 500 FOR TYPICAL DETAILS.

FOUNDATION AND CONCRETE NOTES

1. LEVELING PADS SHALL BEAR ON UNDISTURBED SOIL HAVING AN ALLOWABLE BEARING CAPACITY OF 3000 POUNDS PER SQUARE FOOT.
2. NO FOUNDATION OR LEVELING PAD SHALL BE PLACED IN WATER, OR ON DISTURBED SOIL OR ON FROZEN GROUND.
3. BACKFILL FOR ANY PORTION OF THE PROJECT SHALL BE PLACED IN 6" LIFTS OF GRAVEL COMPACTED TO 95% PROCTOR AS APPROVED BY THE GEOTECHNICAL ENGINEER.
4. ALL STRUCTURAL STEEL IS TO BE 50 KSI MATERIAL AND SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR STRUCTURAL ONCRETE" (ACI 318).
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT THE END OF 28 DAYS. AIR ENTRAINED CONCRETE TO BE USED.
7. STEEL REINFORCEMENT SHALL CONFORM TO A.S.T.M. 615, GRADE 60.
8. STEEL FORM DECK TO BE VULCRAFT 1.5C CONFORM DECK-18 GAGE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
9. ALL REINFORCING BARS SHALL BE COLD BENT IN ACCORDANCE WITH THE APPROPRIATE RADII ESTABLISHED BY THE AMERICAN CONCRETE INSTITUTE. UNDER NO CONDITIONS SHALL HEAT BE APPLIED TO OBTAIN BENDS.
10. IF BEARING MATERIAL WITH A LOWER BEARING CAPACITY THAN 3000 POUNDS PER SQUARE FOOT IS ENCOUNTERED AT THE SPECIFIED ELEVATIONS, THE UNDERLYING UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO BE APPROVED BY THE GEOTECHNICAL ENGINEER.

MVA ENGINEERING COMPANY
633 MAIN STREET
SHREWSBURY, MASSACHUSETTS 01545
PH 508 864 7100



SIRA NATURALS M3

DESIGN:MDM

DRAFT:MDM

DATE:

MILFORD, MA

Agenda Item # 5



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

April 20, 2021

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- 1185

Dear Mr. Giampietro:

I have reviewed the current (3rd) Notice of Intent filing several times over the past 6 months. The submittal is for a Proposed Transportation Terminal at 21 Beaver Street. 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).

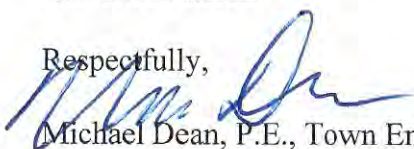
The applicant has been preparing additional information to address DEP's comments and to incorporate all of the proposed activity, including previous work from File#223-1132, into one DEP File # / Order of Conditions (current File # 223-1185).

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

1. The WPA Forms must be updated to reflect the newly incorporated activity (from the previous Order of Conditions) along with a cover letter explaining what has taken place to date.
2. The actual plan (map) of the replication area from Goddard Consulting should be added to the plan set. The notes pertaining to the replication procedure have already been added to the set of plans.

I recommend the issuance of an Order of Condonations following the submittal of the above referenced items.

Respectfully,


Michael Dean, P.E., Town Engineer

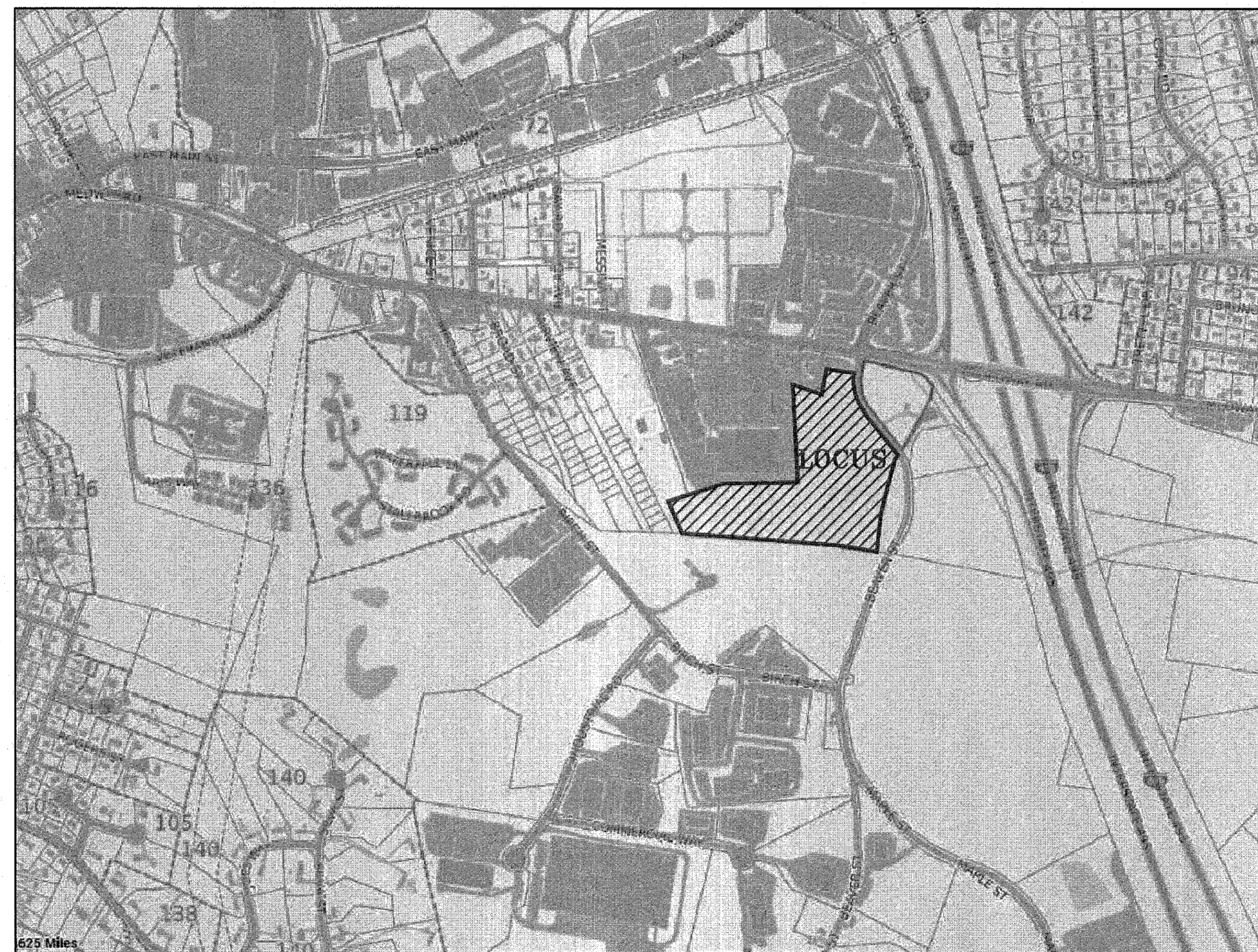
"495 TRANSPORTATION DEPOT I" TRANSPORTATION TERMINAL SITE PLAN 21 BEAVER STREET, MILFORD, MASSACHUSETTS

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

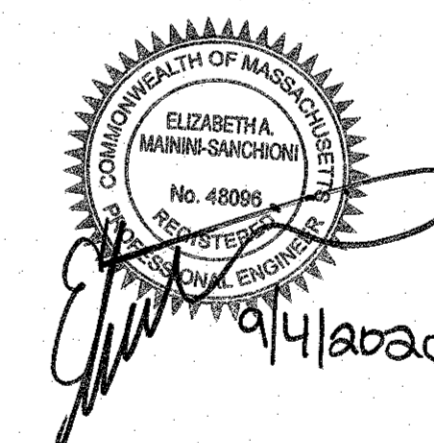
NOTE. STRIPING AND PARKING CONFIGURATION MAY BE ALTERED TO ACCOMMODATE LESSEE'S NEEDS TO ALLOW PARKING OF CARS, VANS, TUCKS TRAILERS AND TRACTOR TRAILERS.

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

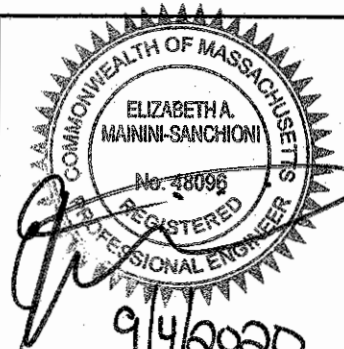
1. COVER
2. EXISTING CONDITIONS
3. SITE LAYOUT
4. GRADING & DRAINAGE PLAN
5. RESOURCE AREA PLAN
6. LANDSCAPING PLAN
7. DETAIL 1 SHEET
8. DETAIL 2 SHEET
9. PHOTOMETRIC PLAN

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



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

SIGNATURE DATE: _____
 BEING A MAJORITY
NOTES

- NOTES
- THIS PLAN REFERS TO THE TOWN OF MILFORD ASSESSORS ATLAS SHEET 44 LOT 25B.
 - SEE DEED BOOK 51954 PAGE 371 RECORDED AT THE WORCESTER REGISTRY OF DEEDS.
 - 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
 - ZONING CLASSIFICATION: IB - HIGHWAY HIGHWAY INDUSTRIAL B
 - HORIZONTAL DATUM - NAD 83.
 VERTICAL DATUM - NAVD 88.

LEGEND

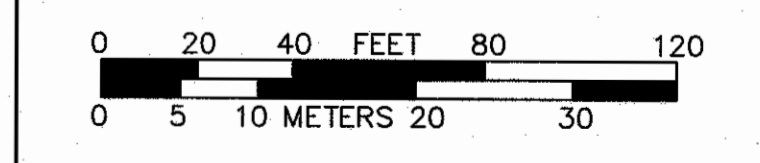
	EXISTING CONTOUR
	EX. DRAIN LINE
	EX. DRAIN MANHOLE
	EX. SEWER MANHOLE
	EX. CATCHBASIN
	EX. UTILITY POLE
	EX. TREE
	EX. SILT FENCE W/ STRAW WADDLES
	EX. OVERHEAD WIRE
	EX. VERTICAL GRANITE CURB
	EX. TREE LINE
	EX. FLOOD PLAIN
	EX. BUILDINGS
	EX. WETLANDS LINE
	EX. WETLANDS FLAG
	EX. WETLANDS SYMBOL
	EX. 100' WETLANDS BUFFER
	EXIST. STONEWALL

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

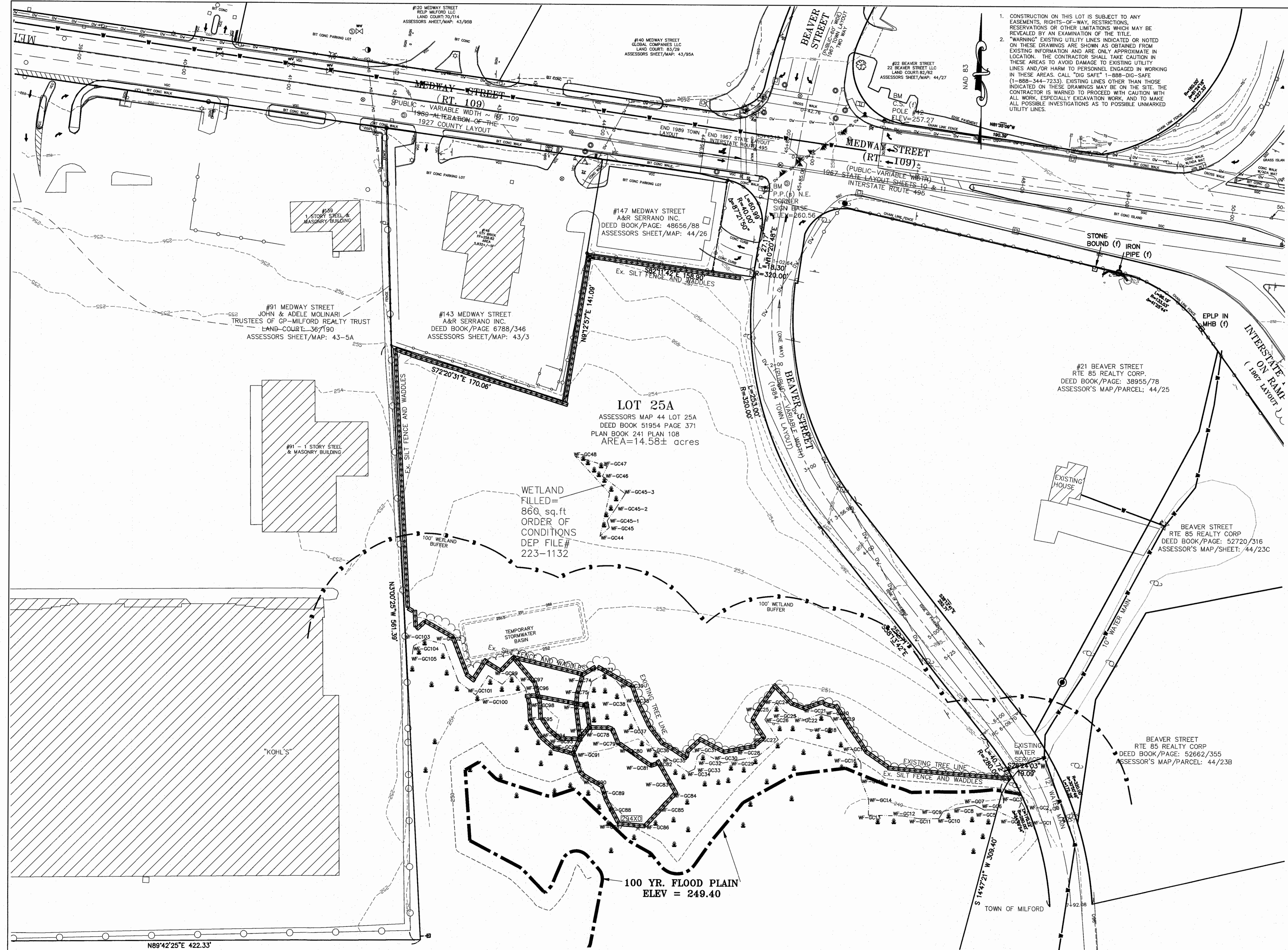
APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

**495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET**
 EXISTING CONDITIONS
 PLAN OF LAND
 IN
MILFORD, MA
 SCALE: 40 FEET TO AN INCH
 DATE: JANUARY 2, 2019

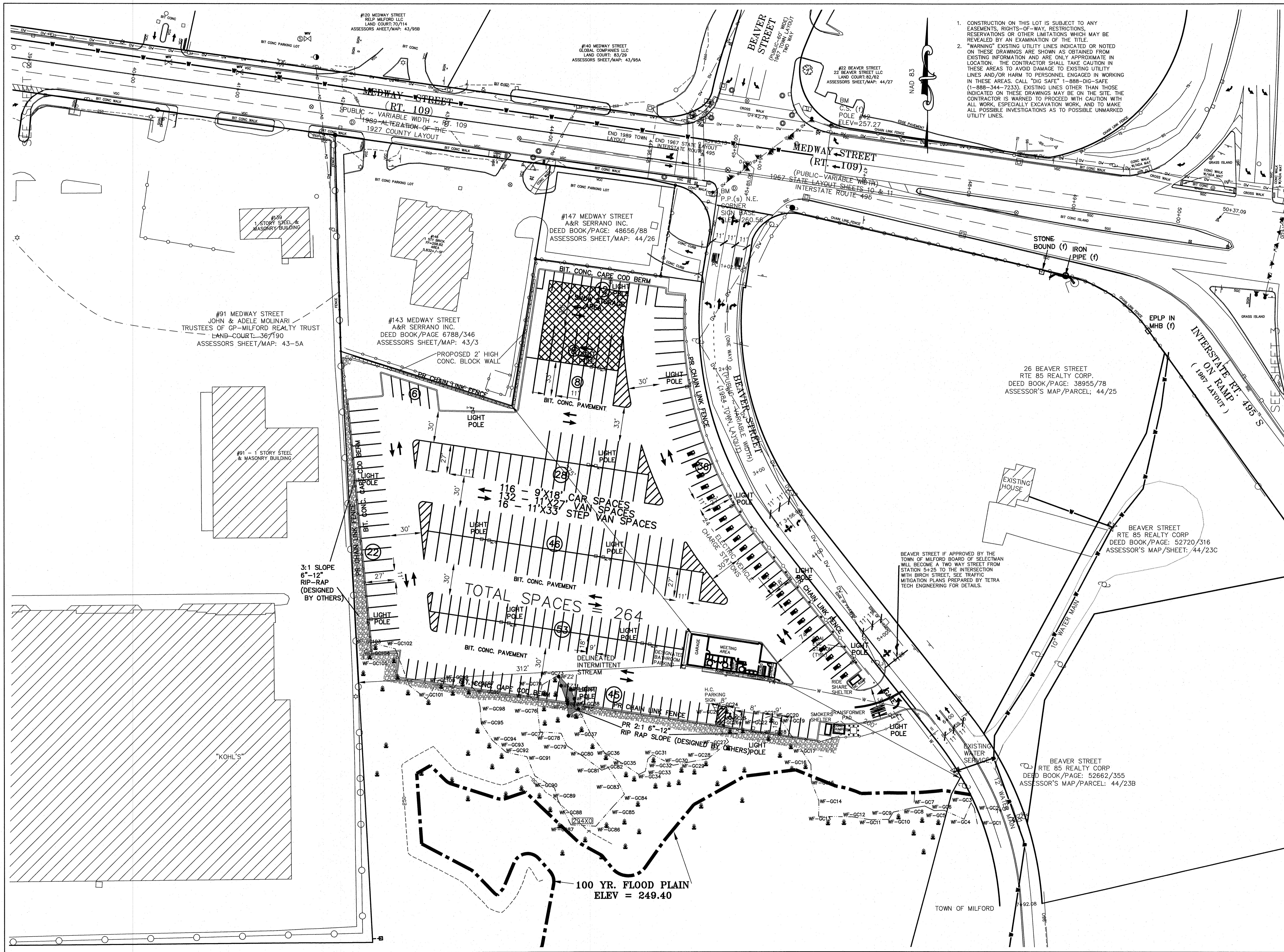
#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
2	6-29-20	SEWER & ABUTTERS CONCERNS	JMN
3	9-08-20	TOWN ENGINEERS REVIEW ITEMS	JMN



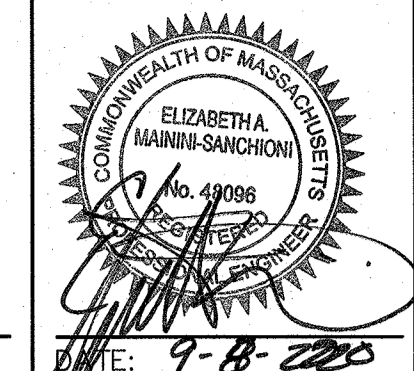
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 Engineering & Land Surveying
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G-8616-1



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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

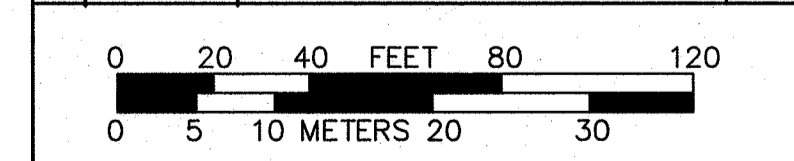
OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

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

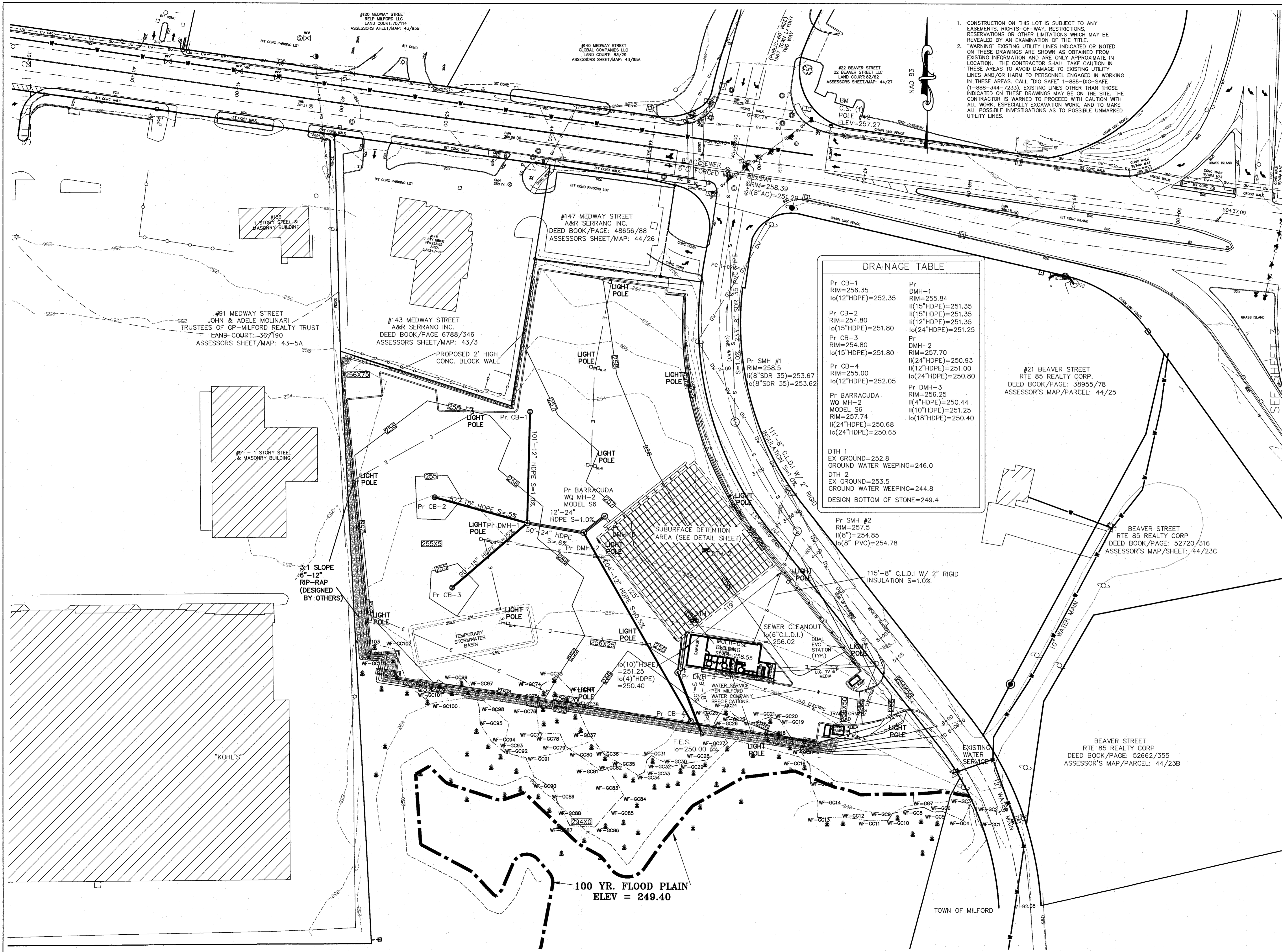
**495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET**

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



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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	

ELIZABETH HANN-SANCHEZ
 No. 40056
 REGISTERED PROFESSIONAL ENGINEER
 9/4/2020

DATE: _____
 APPROVED DATE: _____
 PLANNING BOARD
 SIGNATURE DATE: _____
 BEING A MAJORITY
NOTES

- 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.
VERTICAL DATUM - NAVD 88.

LEGEND

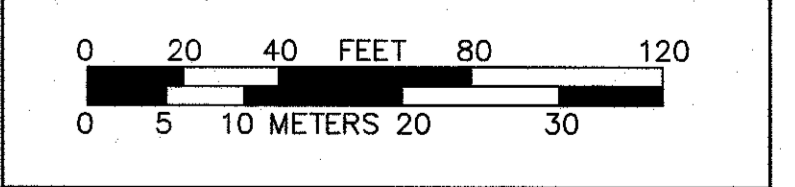
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	Pr. CONTOUR
	Pr. DRAIN LINE
	Pr. DRAIN MANHOLE
	Pr. CATCH BASIN
	Pr. SEWER MANHOLE
	Pr. SEWER LINE
	Pr. WATER LINE
	Pr. BLOCK WALL
	Pr. U.G. MEDIA
	Pr. U.G. ELECTRIC
	Pr. U.G. TELEPHONE
	Pr. STREET TREE
	Pr. 4 HEAD LIGHT POLE
	Pr. SINGLE HEAD LIGHT POLE
	Pr. CHAINLINK FENCE
	Pr. SIGN
	Pr. ELECTRIC VEHICLE CHARGE STATION
	Pr. EX DEEP TEST PIT

OWNER
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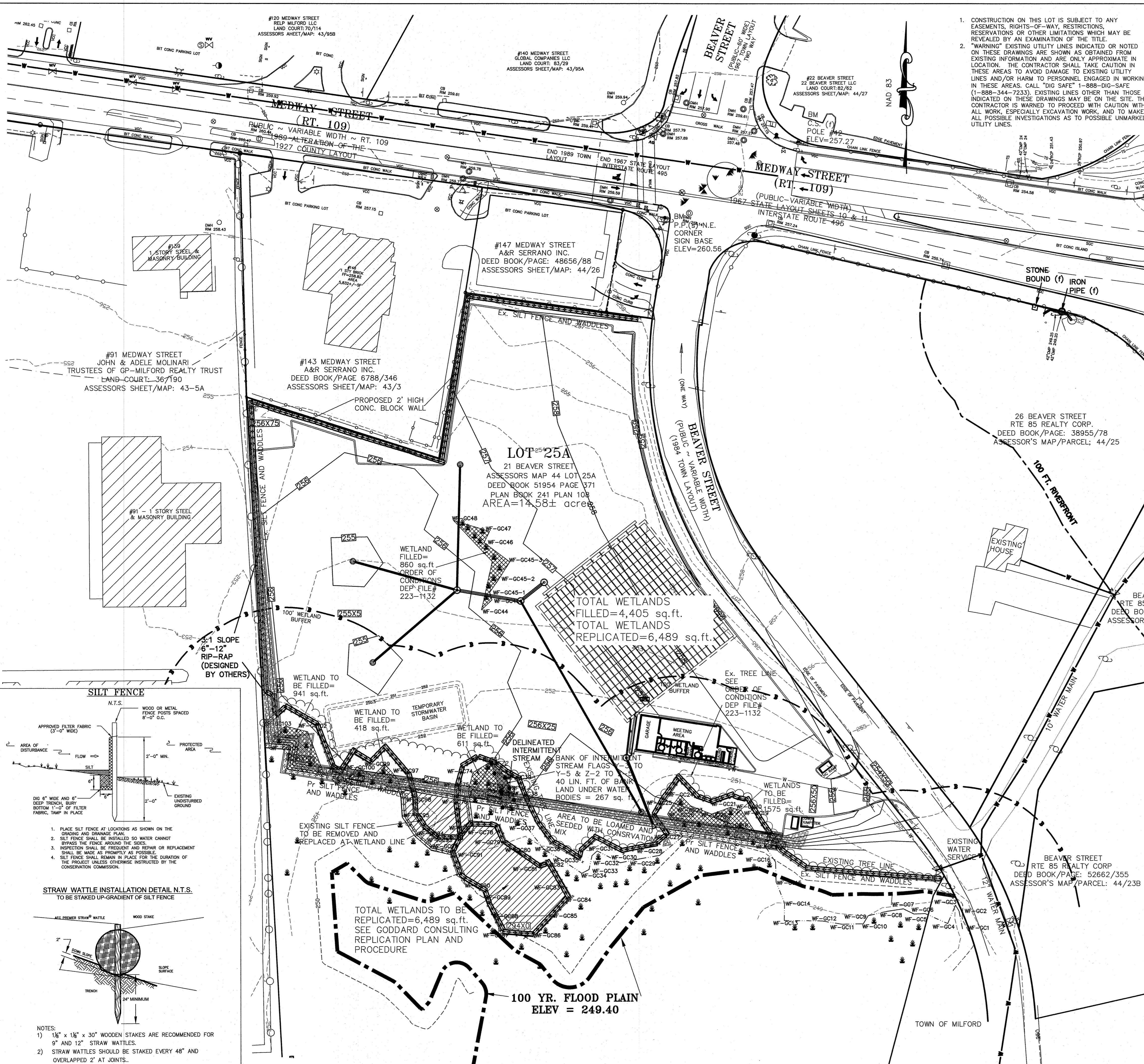
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**495 TRANSPORTATION TERMINAL I
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 GRADING & UTILITY
 PLAN OF LAND
 IN
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BWV AND BANK INSTALLATION PROCEDURES

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.

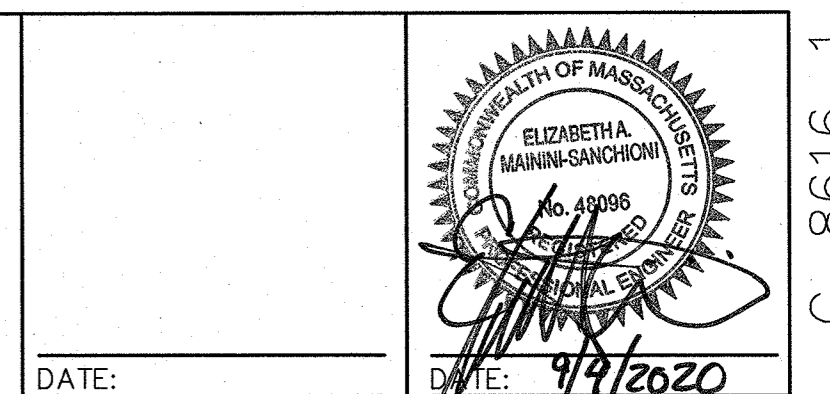
LEGEND

- EXISTING CONTOUR
- - - EX. SILT FENCE W/ STRAW WADDLES
- - - 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. FILLED WETLANDS
- Pr. WETLAND REPLICATION
- Pr. FILLED FLOOD PLAIN
- Pr. REPLICATED FLOOD PLAIN

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.

OWNER

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

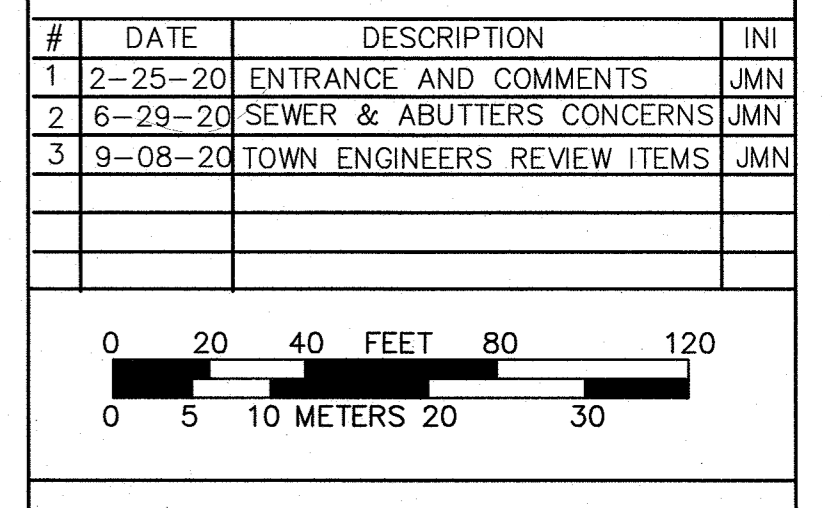
APPLICANT

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

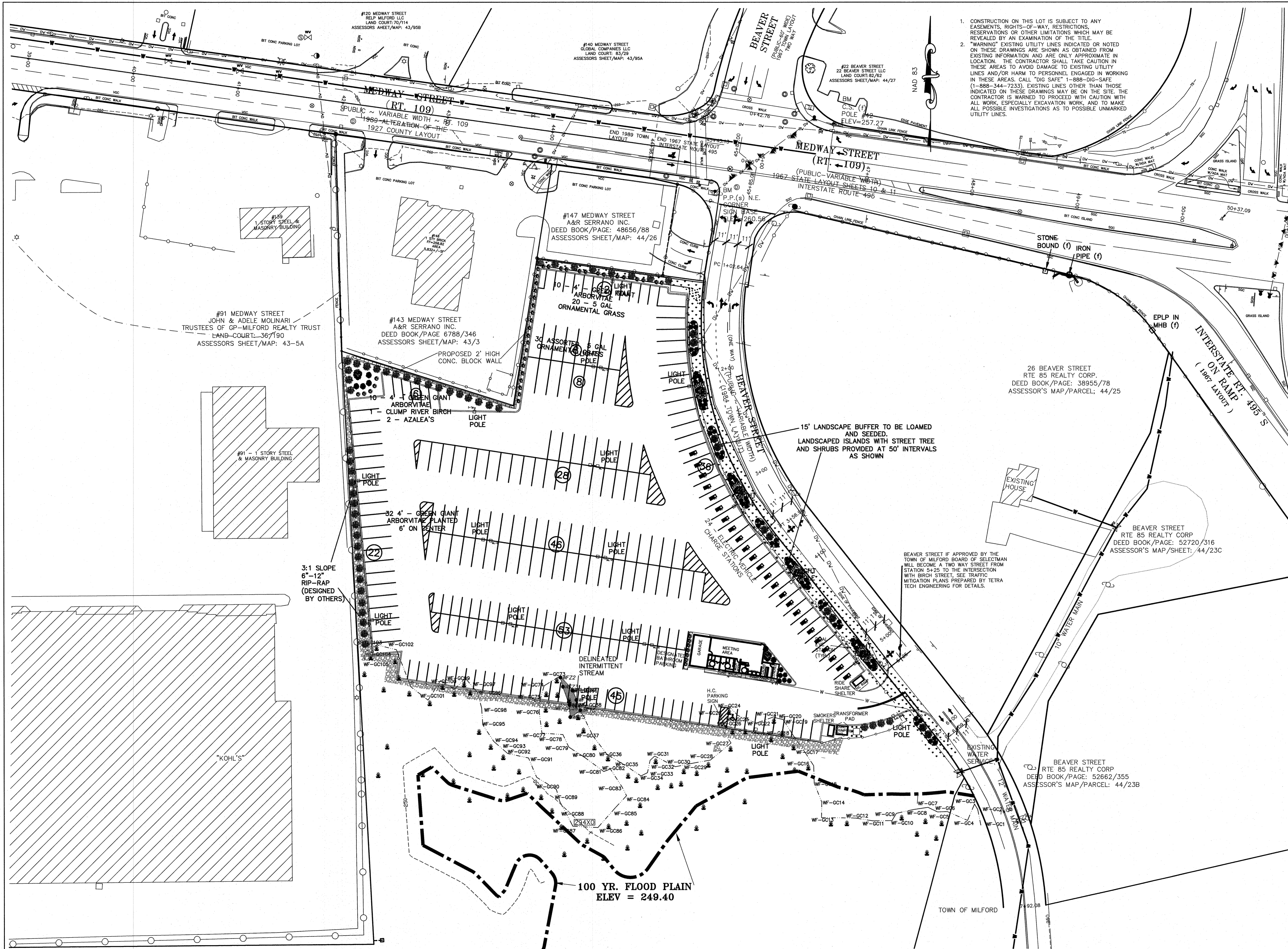
495 TRANSPORTATION TERMINAL I
21 BEAVER STREET

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

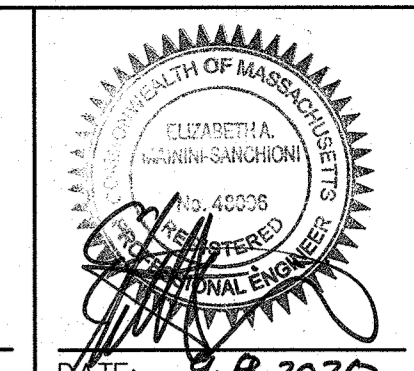
#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
2	6-29-20	SEWER & ABUTTERS CONCERNS	JMN
3	9-08-20	TOWN ENGINEERS REVIEW ITEMS	JMN



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



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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
---	WETLANDS FLAG
---	WETLANDS SYMBOL
---	100' WETLANDS BUFFER
---	EXIST. STONEWALL

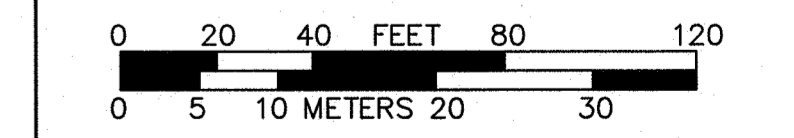
OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

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

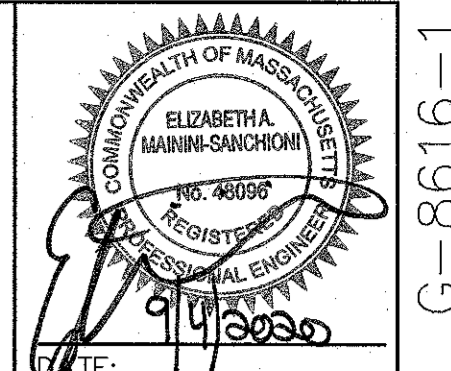
**495 TRANSPORTATION TERMINAL I
 21 BEAVER STREET**

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

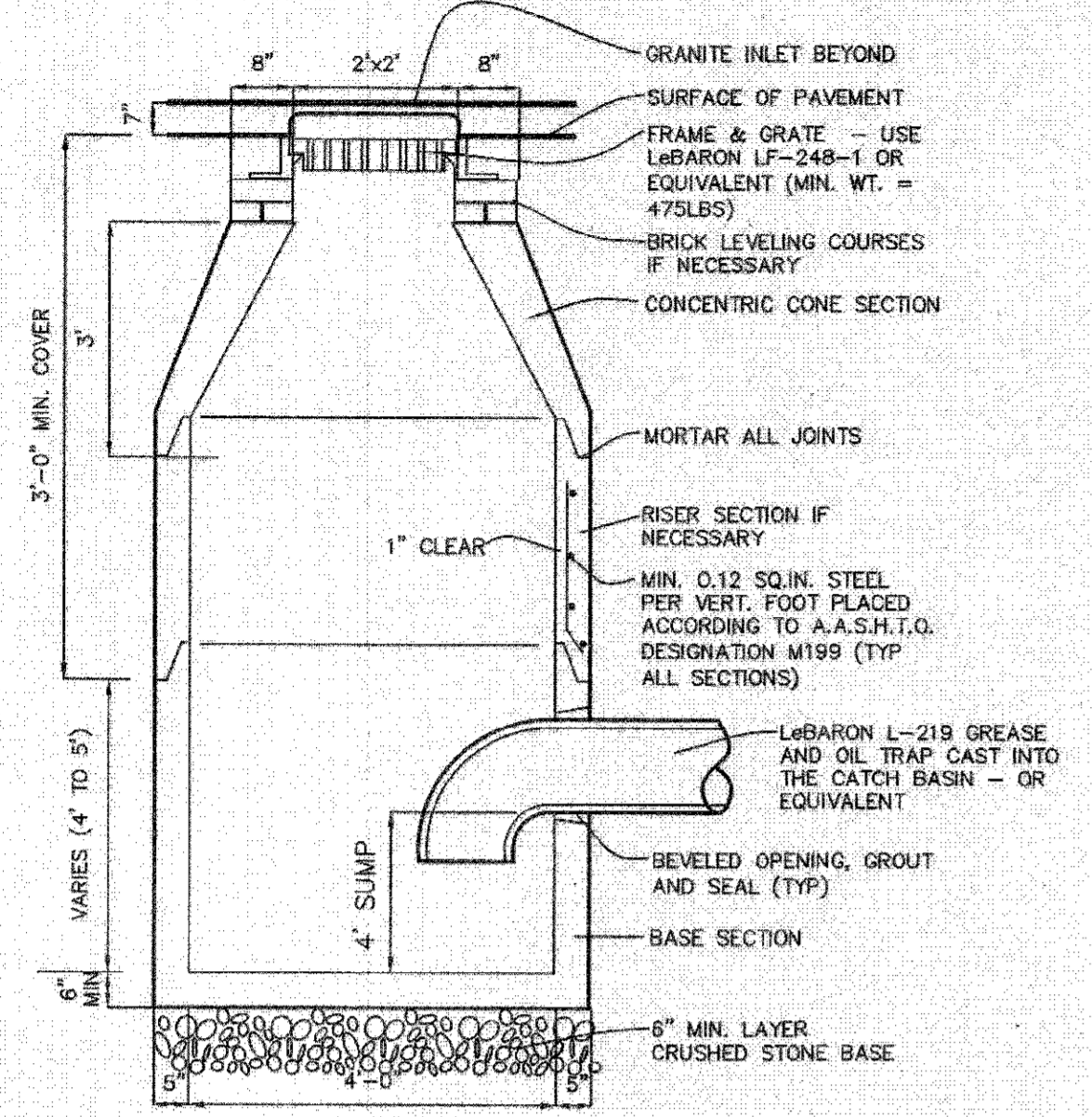
#	DATE	DESCRIPTION	INI
1	2-25-20	ENTRANCE AND COMMENTS	JMN
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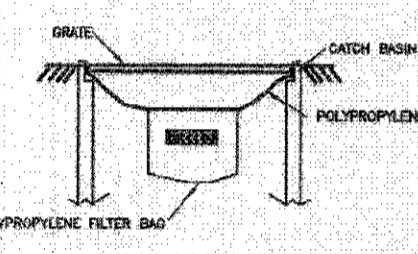


G-8616-1

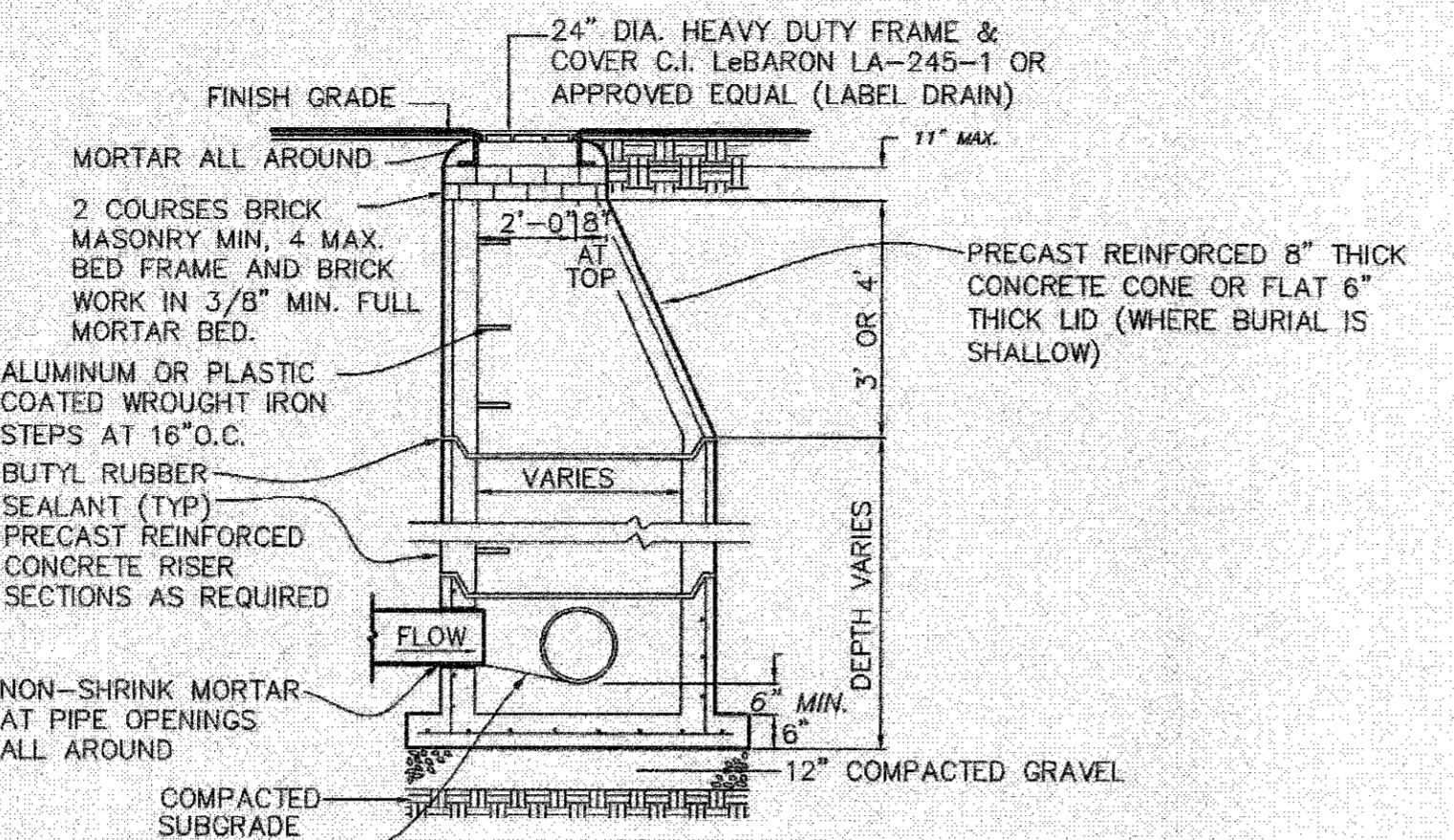


SECTION PRECAST CONCRETE CATCH BASIN
NOT TO SCALE

- 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.

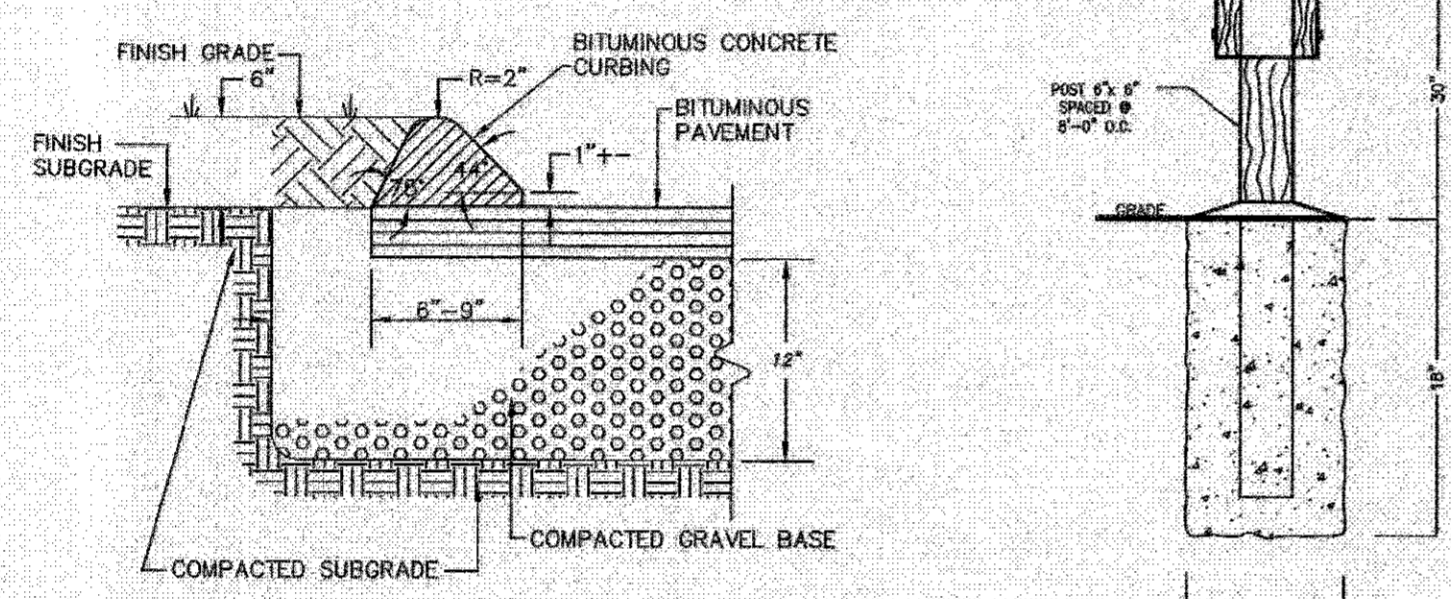


SILTATION BASKET TYPE II-S (SEDIMENT)
N.T.S.



TYP. PRECAST CONCRETE MANHOLE STORM DRAIN

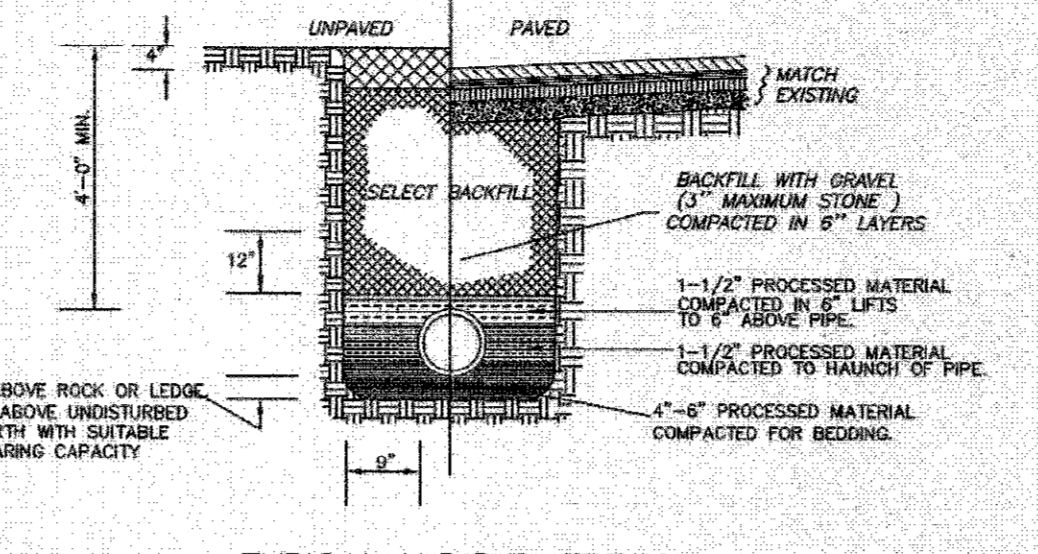
N.T.S.
NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. C478.



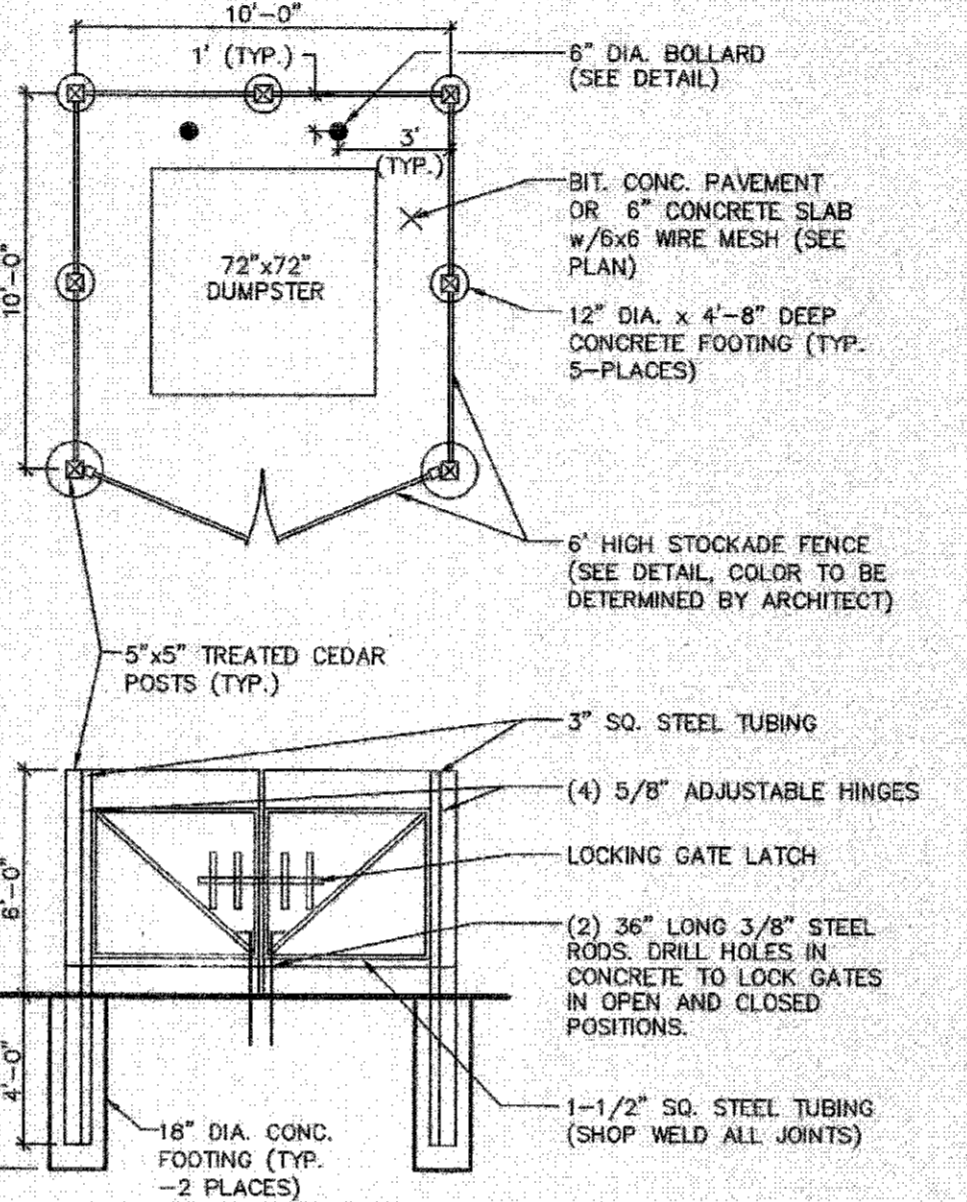
TYP. BITUMINOUS CONCRETE CURB DETAIL
N.T.S.

WOODEN GUARD RAIL
N.T.S.

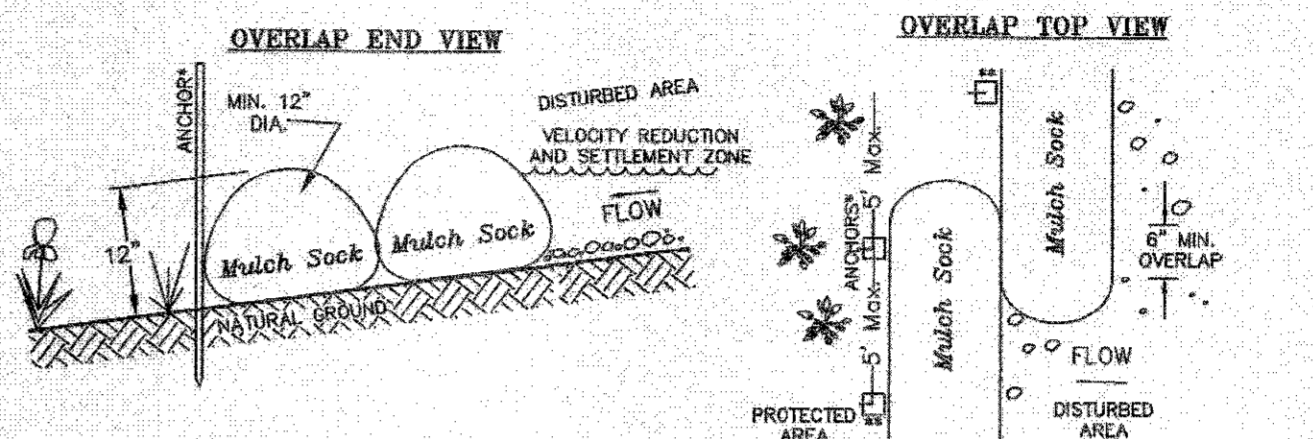
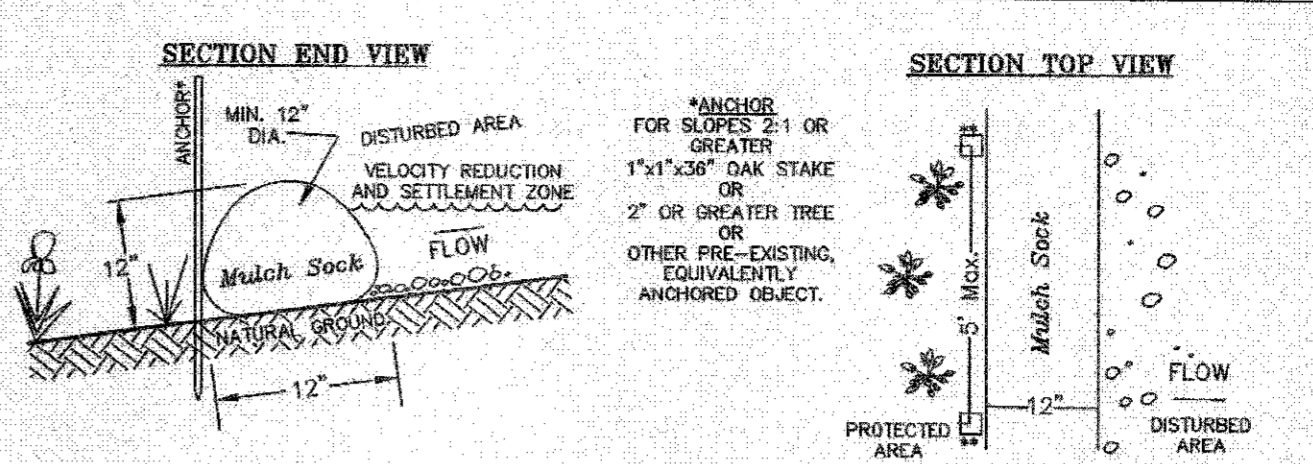
1. INSTALL PROCESSED MATERIAL COMPACTED AT SLOPE OF PIPE.
2. BACKFILL TO HAUNCH OF PIPE AND COMPACT.
3. BACKFILL 12" ABOVE PIPE AND COMPACT.



TYPICAL H.D.P.E. TRENCH SECTION
NOT TO SCALE

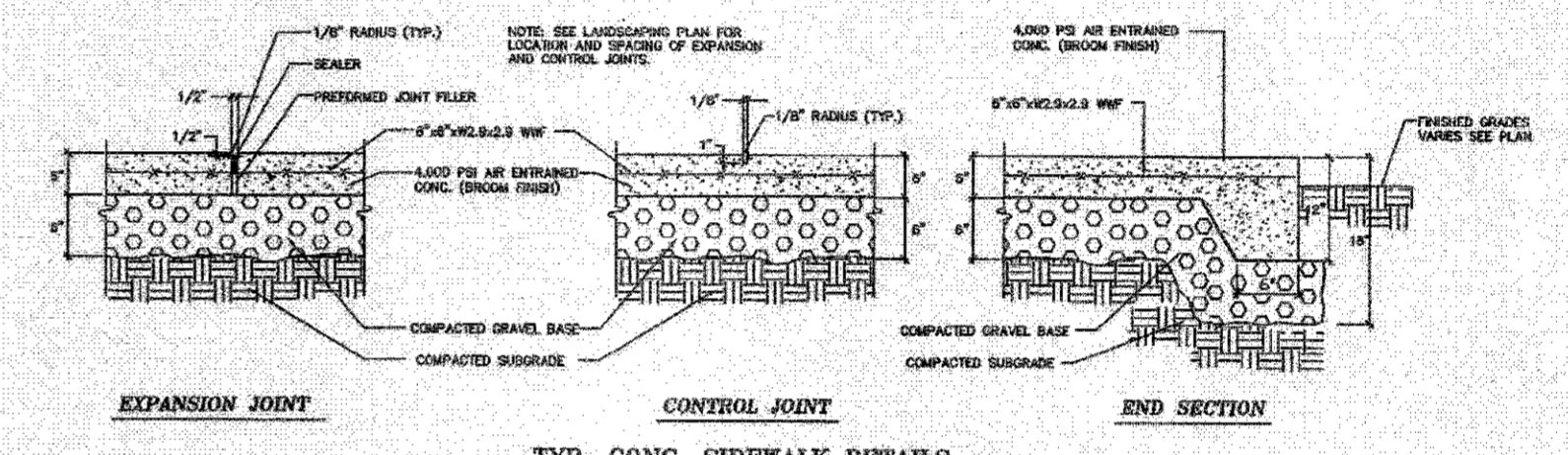


TRASH ENCLOSURE
SCALE: 1/4"=1'-0"

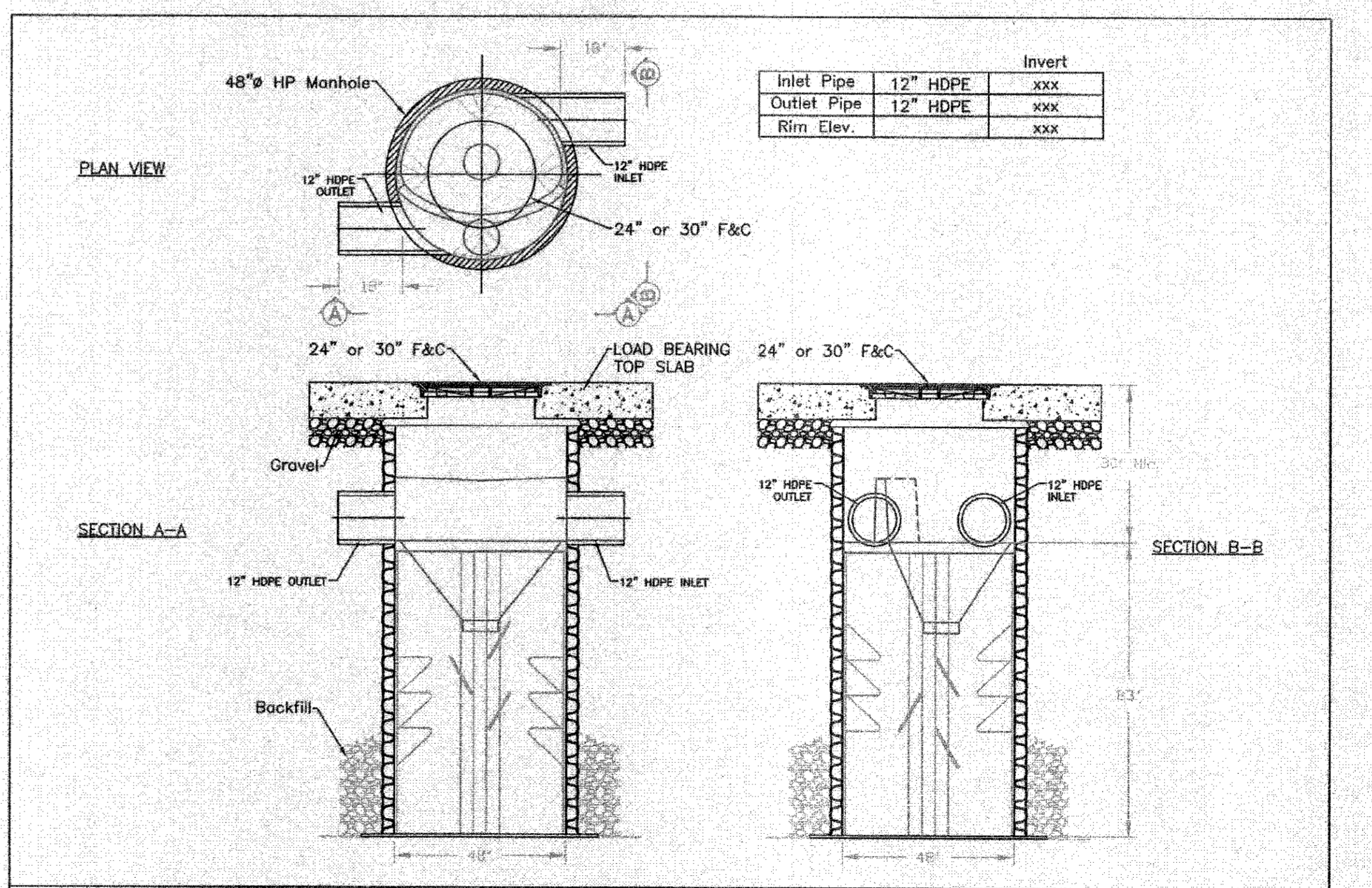


Mulch Sock INSTALLATION:
With the newest technology and equipment, sections can be constructed on site in lengths from 1' to 100'.
Sections can also be delivered to the site in lengths from 1' to 8'.
The flexibility of *Mulch Sock* allows it to conform to any contour or terrain while holding a slightly 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**
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OWNER
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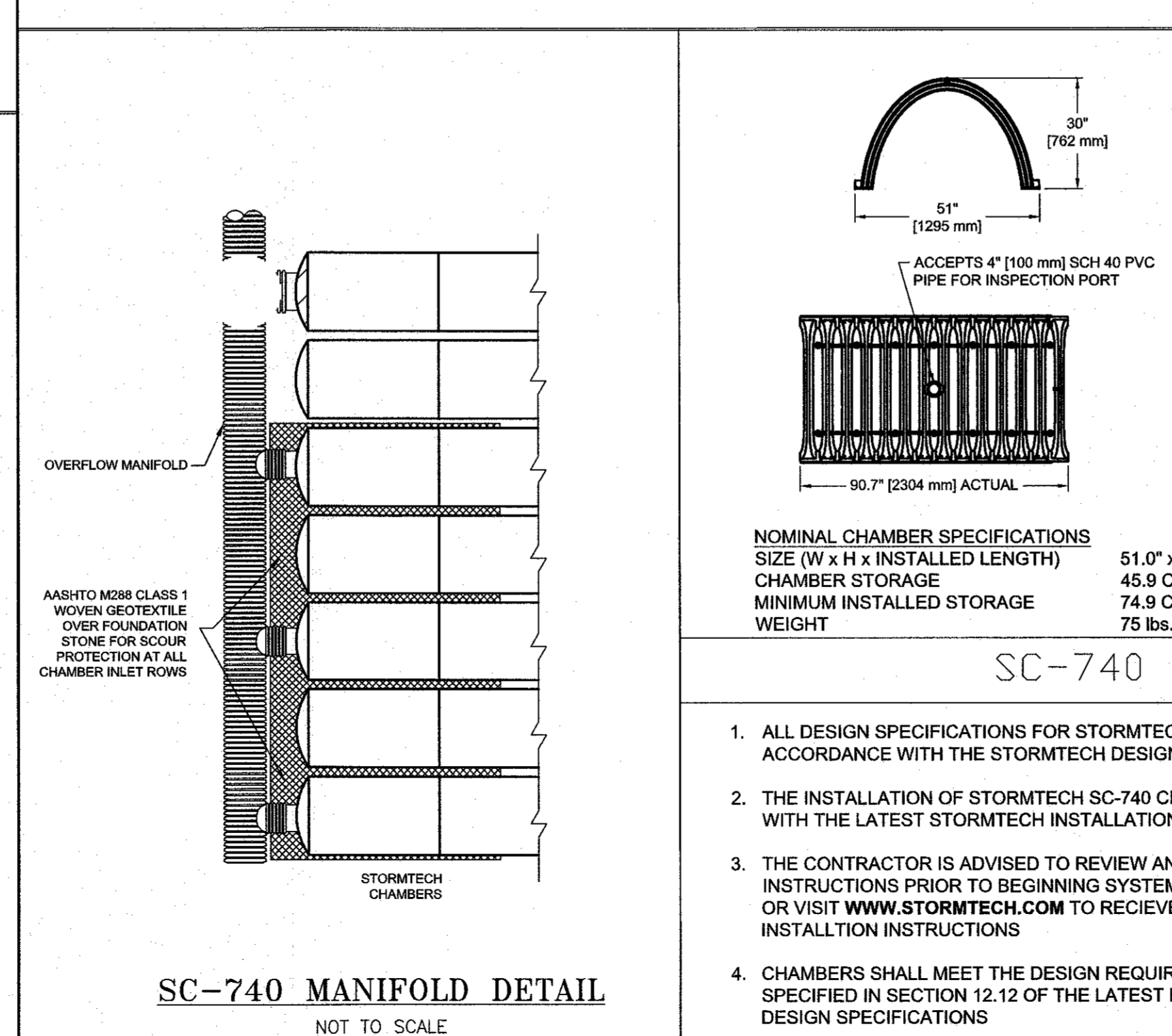
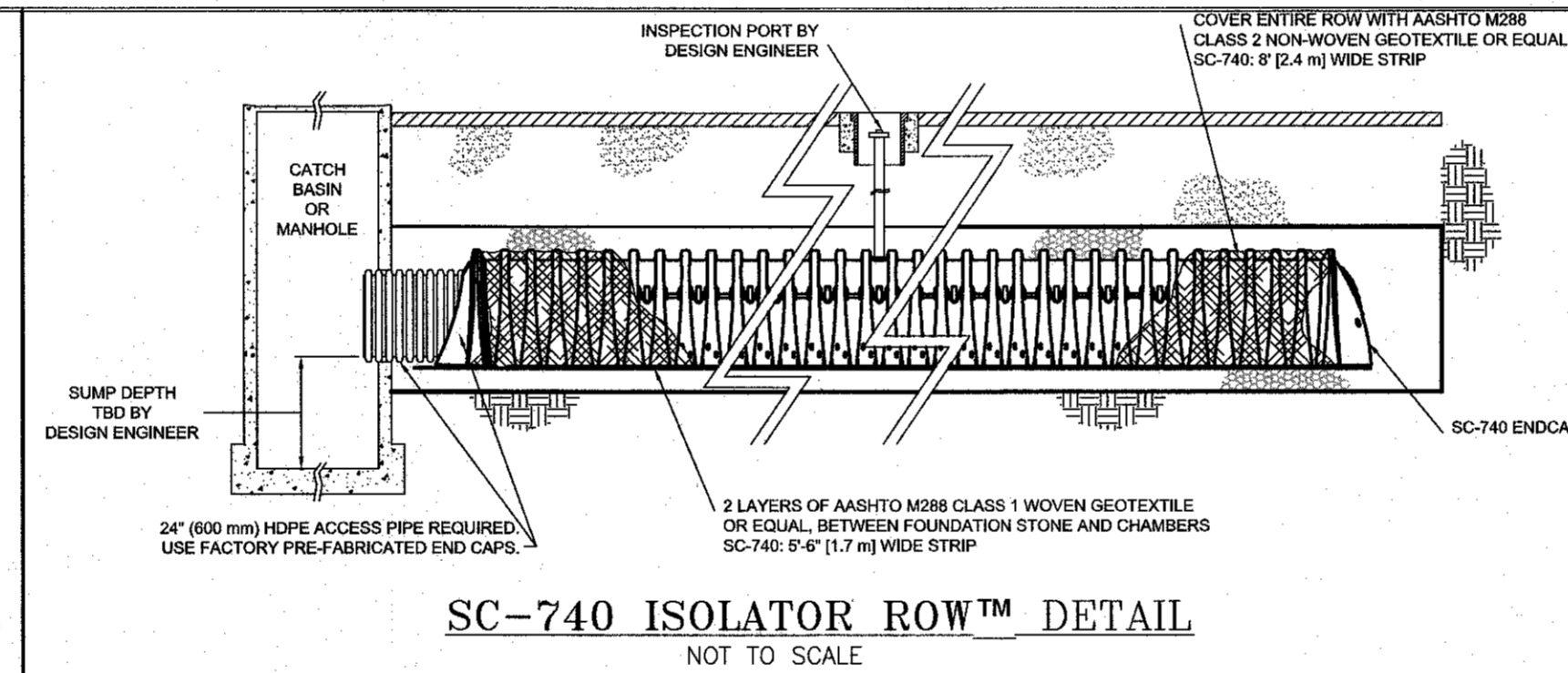
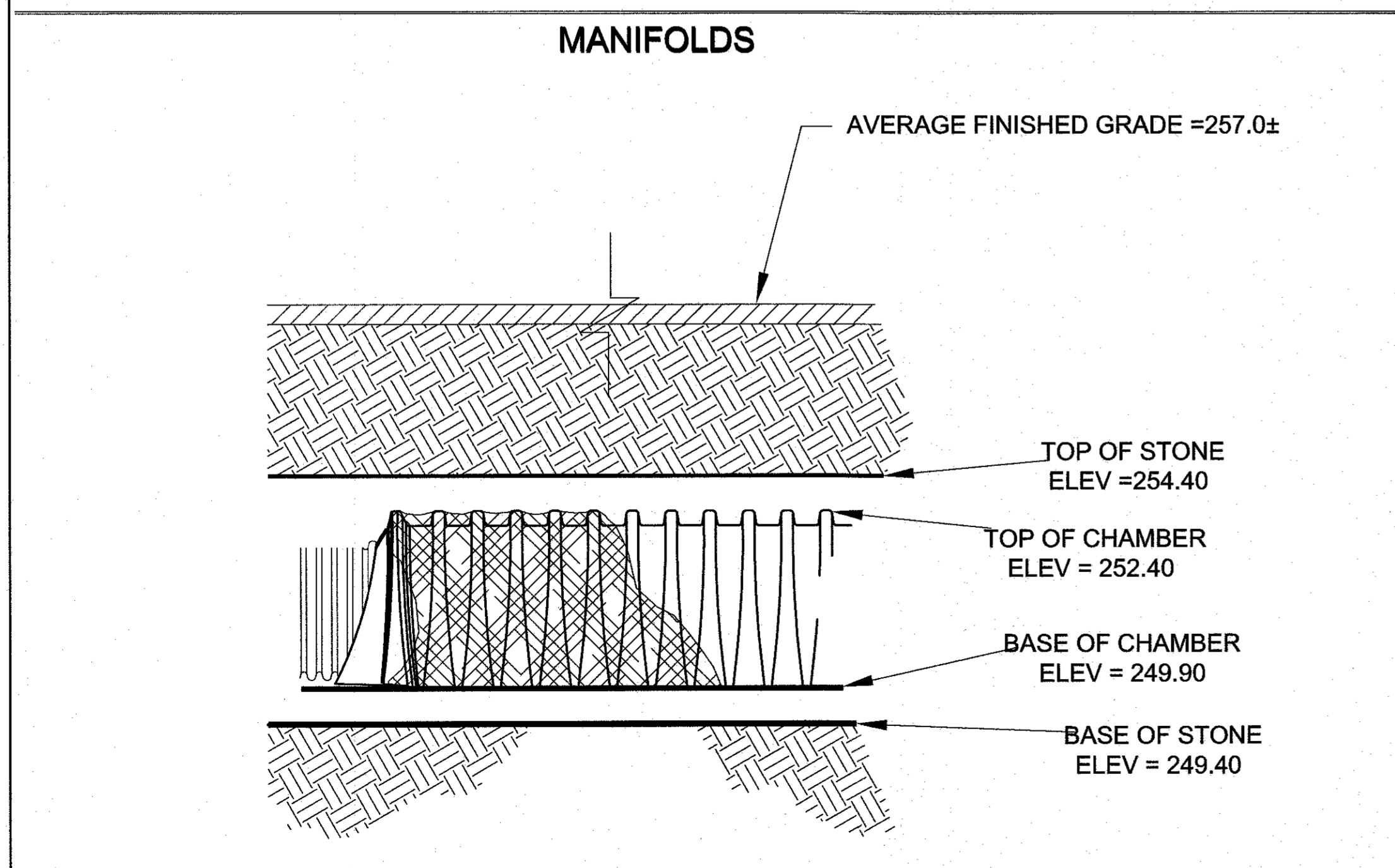
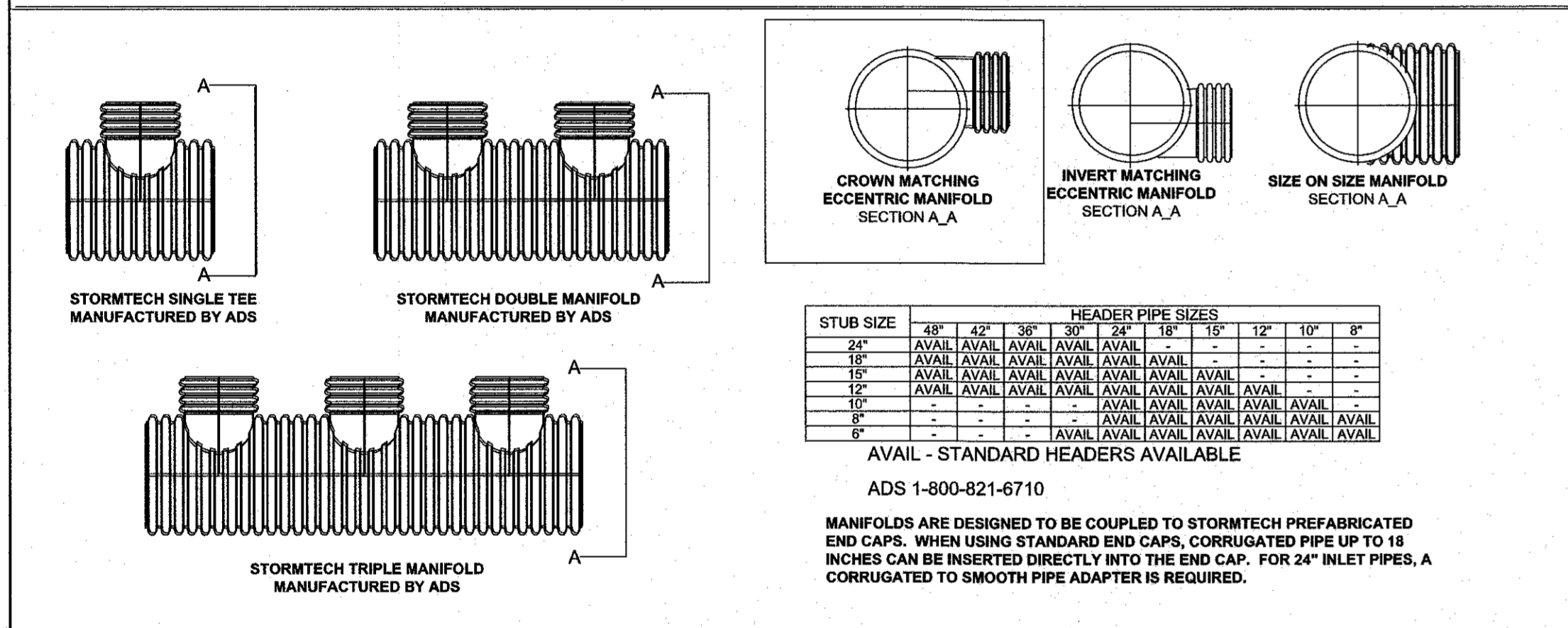
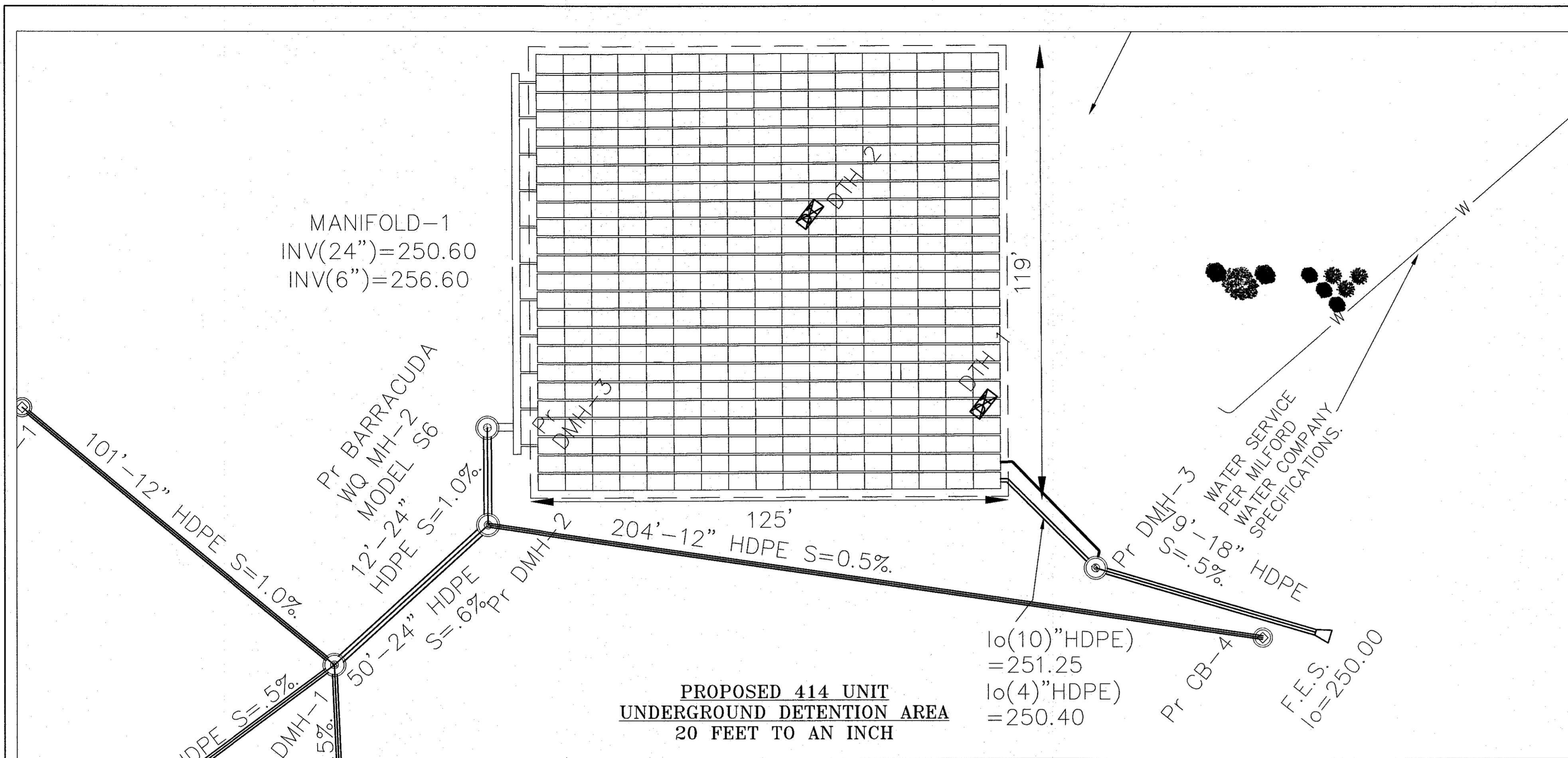
APPLICANT
ROUTE 85 REALTY CORP.
P.O. BOX 444
MENDON, MA 01756

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
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

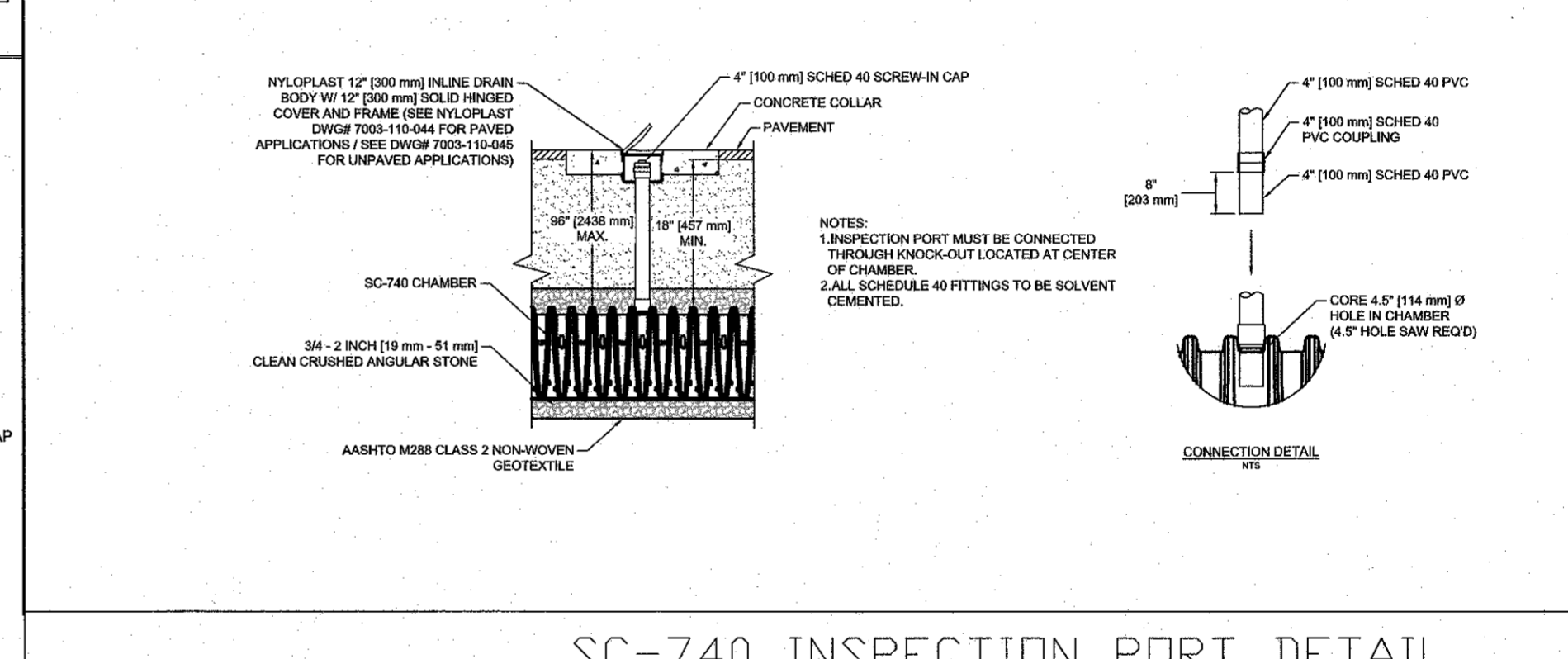
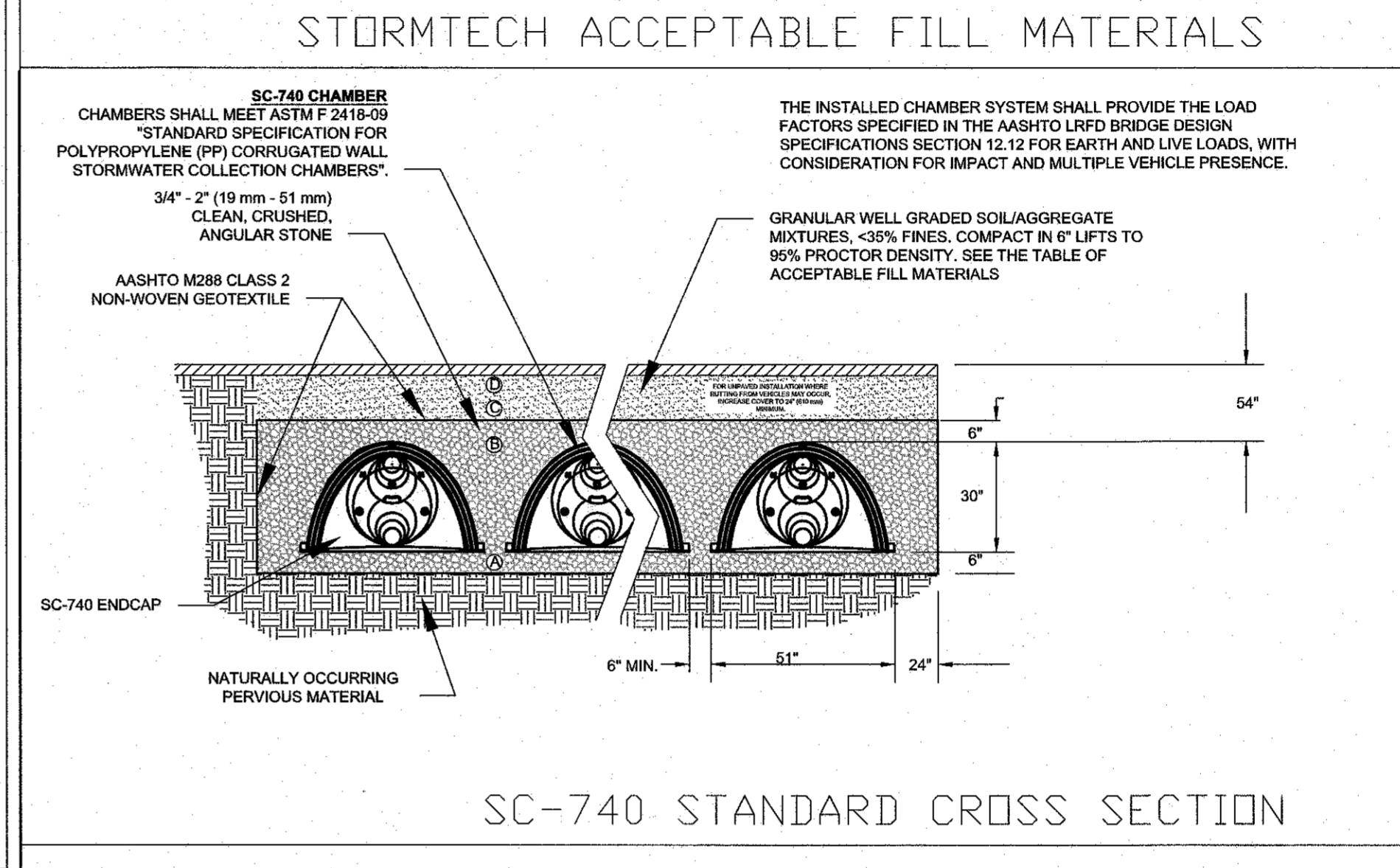
Guerriere & Halnon, Inc.
Engineering & Land Surveying
333 WEST STREET, MILFORD, MASS. 01757
(508) 473-6630 FAX: (508) 473-8243
www.gandengineering.com



ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M33 DESIGNATION*	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, CRACK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	NA	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE FURTHER MATERIAL AND PREPARATION REQUIREMENTS.
2. FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBANKMENT STONE (OF LAYERS TO 'D' LAYER) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBGRADE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES. MOST PAVEMENT SUBGRADE MATERIALS CAN BE USED IN LAYERS OF THIS LAYER.	3. 97.4, 4. 467.5, 5. 56.57, 6. 57.96, 7. 7.8, 8. 8.6, 9. 10	BEST COMPACTED AFTER 1" (25 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS BY 1" (25 mm) LIFTS TO A MINIMUM STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 20,000 lbs (90 kN).
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. 97.4, 4. 467.5, 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, 4. 467.5, 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 M33) STONE."
2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'K' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 1" (25 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.



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

StormTech®
Detention • Retention • Recharge
Subsurface Stormwater Management™

ELIZABETH HANNING-SANGHON
No. 48086
Professional Engineer
1/14/2020

DATE: _____

APPROVED DATE: _____

PLANNING BOARD

SIGNATURE DATE: _____

BEING A MAJORITY

NOTES

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P.O. BOX 444
MENDON, MA 01756

APPLICANT
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MENDON, MA 01756

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
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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SHEET 8 OF 9 G-8616-1

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

MEMORANDUM

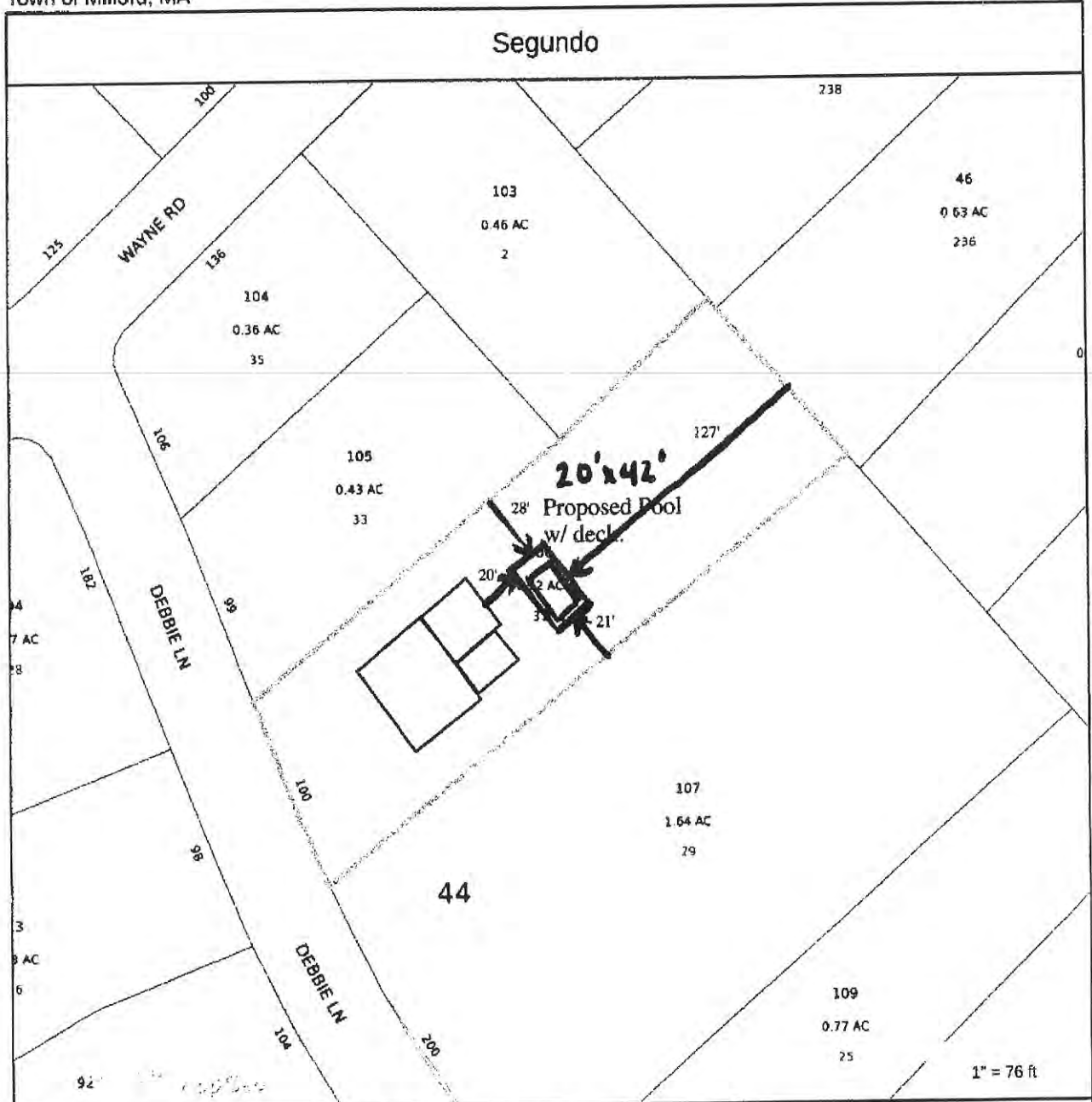
TO: Michael Giampietro, Chairman
FROM: Michael Dean, P.E. *MD*
DATE: April 20, 2021
SUBJECT: Notice of Intent – Above Ground Pool
31 Debbie Lane – DEP File # _____

The submittal is a Notice of Intent associated with the installation of an above ground pool in the rear yard of an existing single-family house. The pool has already been installed, prior to any filing with the Conservation Commission.

Following a site inspection and a review of the very limited submittal (paper work), I offer the following.

1. The pool as installed is in close proximity to the Bordering Vegetated Wetlands (BVW). It is recommended the applicant have the BVW flagged and an engineered plan be submitted. The plan should accurately show the existing conditions, BVW, pool location, etc.

I recommend the continuance of the public hearing until the above items have been submitted and reviewed. Once submitted and reviewed further discussion may be warranted.



Property Information

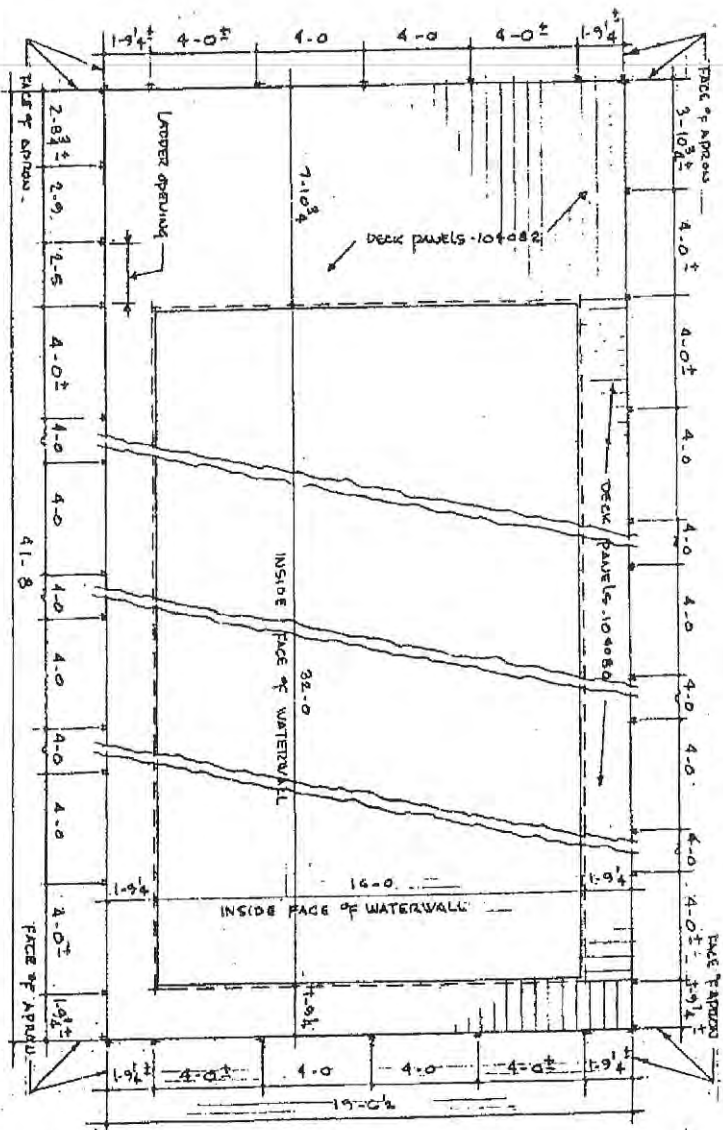
Property ID: 25-44-106
 Location: 31 DEBBIE LN
 Owner: CUNGACHI SEGUNDO NICOLAS MUYUBISNAY



MAP FOR REFERENCE ONLY
 NOT A LEGAL DOCUMENT

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Geometry updated March 2018
 Data updated 11/16/2018



DECK PLAN 1/4

16' x 32' MODEL - SINGLE END DECK

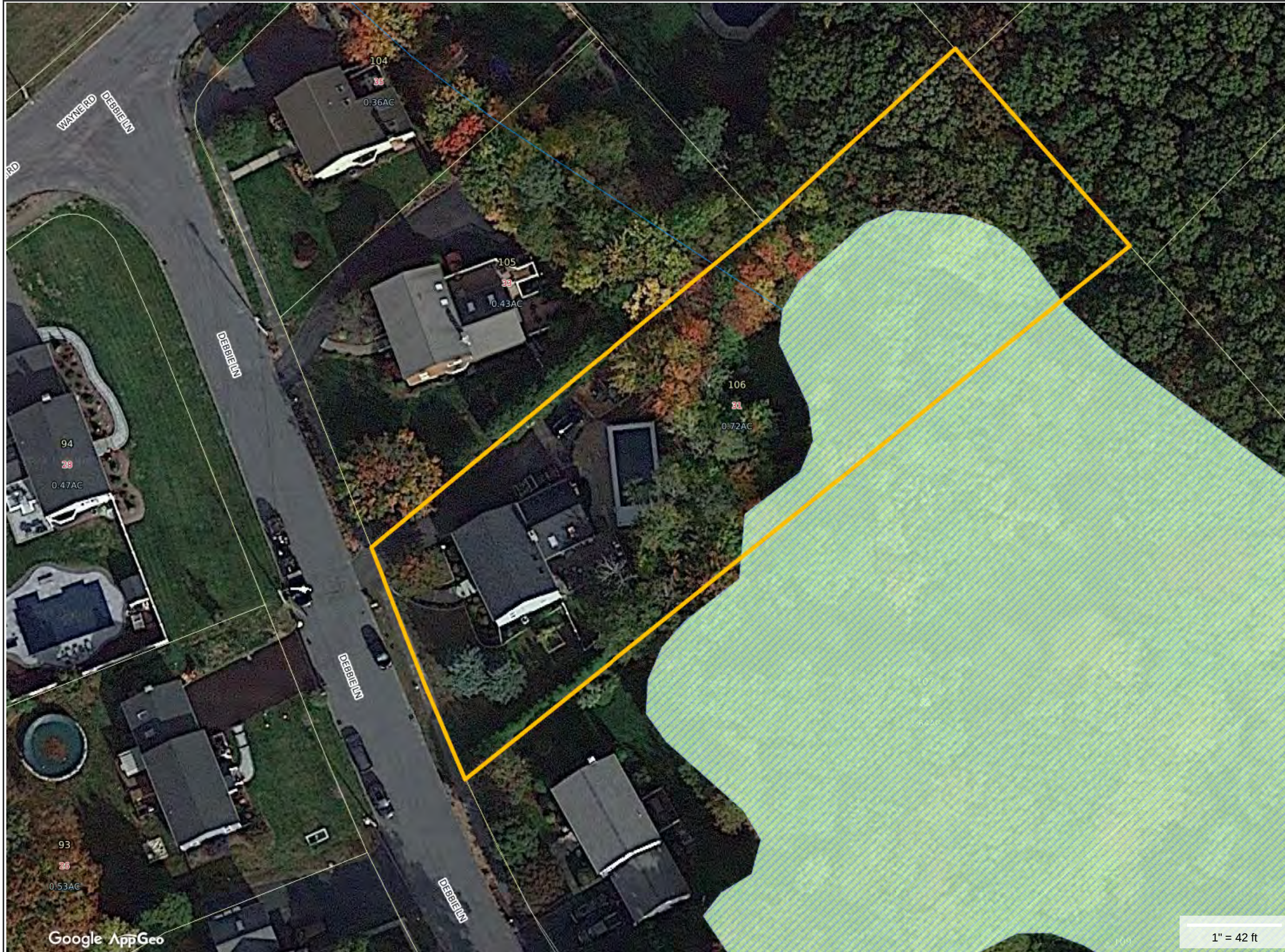
NOTE - REF DETAIL DWG'S 10THRU 19



IG37E-1
02-20-02



Digitally signed by
Adam R. Taddonio
DN: cn=Adam R. Taddonio,
ou=Keytek Pools, email=ataddon@keytekpools.com, c=US



Property Information

Property ID 25-44-106
Location 31 DEBBIE LN
Owner CUNGACHI SEGUNDO NICOLAS MUYUBISNAY



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Geometry updated 4/2/2021
 Data updated 11/16/2018

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

Map Theme Legends

Wetlands

-  Shoreline
-  Hydrologic Connection
-  Mean Low Water Line
-  Wetland Limit
-  Closure Line
-  Reservoir (with PWSID)
-  Marsh/Bog
-  Wooded Marsh
-  Cranberry Bog
-  Salt Marsh
-  Tidal Flats
-  Beach/Dune

MassDEP Wetlands