BOLTON INLAND WETLANDS COMMISSION
REGULAR MEETING
7:00 P.M., TUESDAY, SEPTEMBER 23, 2025
VIRTUAL MEETING VIA ZOOM

Inland Wetlands Commission Members Present Via Zoom: Chair Ross Lally, Vice Chair James Loersch, Member Diane DeNunzio, Member Michael McDonnell. Absent was Member David Lynn.

Staff Present Via Zoom: Wetlands Agent Alyssa Barroso, Board Clerk Mary Johnston

Others Present Via Zoom: Paul Toomey, Stephen King, Barbara Knight, Ronald Bisson

1. Approval of Agenda
D. DeNunzio MOVED to approve the agenda. J. Loersch SECONDED the motion. MOTION CARRIED UNANIMOUSLY 4:0:0.

2. Public Comment
Stephen King, 90 Burnett Brook Road, Andover, stated he had reached out to the Town of Bolton on several occasions regarding dumping of debris in wetlands across the street of 34 Skinner Road, Bolton. A. Barroso stated the owner of the property has been dumping debris and the Town Administrator visited the site. A. Barroso stated she has issued a notice of violation to the property owner and requested a response by next Friday. S. King stated he does not trust the owner to clean up the property correctly.

3. Approval of Minutes
3a. August 26, 2025, Regular Meeting
J. Loersch MOVED to approve August 26, Regular Meeting Minutes. D. DeNunzio SECONDED. MOTION CARRIED 4:0:0.

4. Old Business
4a. IW-25-14: Ronald Bisson – 139 Vernon Rd – Cut & Remove Select Trees, Stumps & Shrub to Create View Corridor
A. Barroso reported she visited the site last week and met with R. Bisson. A. Barroso said an additional map with more details was provided showing which trees are being removed or staying and showing the distance from the waterline. A. Barroso said trees marked with pink will remain and trees marked with white will be removed. R. Bisson stated the removal equipment will be a mini escalator and all stumps to be removed. R. Bisson added the undergrowth will be removed and will add hydro seed. J. Towney stated this project is to manage the forest and not create a view corridor to the lake. J. Loersch expressed concerns of disturbance to the lake. R. Bisson replied hay bales will be placed in the lake and swaddles on the bank. M. McDonnell was concerned with hay bales in the lakebed. A. Barroso added the work near the lake will be done when the lake is drawn down. R. Lally stated he was concerned with the lack of notes on the map showing proposed work and

requested more details/notes on the map. After discussion, M. McDonnell MOVED to issue a conditional permit with the inclusion of a legend which identifies the location of the trees on the plan with a letter corresponding to a picture of that said tree attached as part of the permit and secondly to modify the note concerning the hay bales placed in the lake add to it by completion of the project the hay bales and any sediment collected behind the hay bales will be removed at the end of the project and prior to the lake coming back up. J. Loersch SECONDED the motion. M. McDonnell AMENDED his motion to include the color coding of the trees marked with red and work will begin after the lake is drawn down and completed before water is brought back up. J. Loersch SECONDED the amendment. MOTION CARRIED UNANIMOUSLY 4:0:0 AS AMENDED.

4b. IW-25-13: Jordan Knight – 51 Loomis Rd – New Construction of a 2-Family Dwelling
A. Barroso reviewed the revised plan showing the requests that had been made by the Commission at last month's meeting. The changes included the addition of the dimensions of the silt fences. The Commission had also requested the timing of construction. B. Knight said they will begin clearing the property this winter then will begin a step-by-step process with planning of construction and obtaining approvals.

M. McDonnell MOVED to approve the proposed activity as presented in the plan of record which covers the construction sequence and ENS controls. D. DeNunzio SECONDED the motion. MOTION CARRIED UNANIMOUSLY 4:0:0.

4. New Business
None.

6. Wetlands Agent Report
A. Barroso reported she closed out a lot of permits this month and reviewed the monthly report that was provided to the Commission. A. Barroso reported she visited 1 Notch Road, and everything looks great. A. Barroso stated the work at Shoddy Mill has made some progress and she will continue to monitor the activity. A. Barroso reported the Inland Wetlands brochures have been distributed and the Commission thanked her for doing an excellent job on them. R. Lally stated the CACIWC invitations have been received, and he will send it to the Commission. The annual meeting will be November 15, 2025.

7. Other
7a. Cease and Correct – Alexey Ouzonov & Tenant – 37 Notch Road – Debris in Wetlands
A. Barroso reported there has been no response from Mr. Ouzonov to date. R. Lally stated he sent a letter requesting the report of the soil testing. A. Barroso will follow up with Mr. Ouzonov.

7b. Ongoing Discussion & Review of Proposed Updates to Wetlands Regulation
R. Lally reported he and A. Barroso gave a presentation on the Fee Schedule to the Selectmen this month. The proposal has been submitted to a subcommittee for

consideration. A. Barroso will send a note to Kathy McCavanagh for placement on the Selectmen's agenda.

8. Adjournment: J. Loersch MOVED to adjourn the meeting at 8:18 p.m. D. DeNunzio SECONDED the motion. MOTION CARRIED UNANIMOUSLY 4:0:0.

Respectfully submitted by Mary J. Johnston
Mary J. Johnston

Please see the Minutes of subsequent meetings for corrections to these Minutes and any corrections hereto.

Town of Bolton, CT

October 23, 2025

IW-25-16

Inland Wetlands

Status: Active

Submitted On: 10/23/2025

Primary Location

29 HEBRON RD
BOLTON, CT 06043

Owner

No owner information

Applicant

Joseph Dillon
860-526-9591
bolton@nlja.com
86 Main Street, P.O. Box 337
Chester, CT 06412

Internal Use

Conditions

Petition Received?

–

Date Received

–

Date of Newspaper Publication of Inland/Wetlands Commission Action

–

Summary of Inland/Wetlands Commission Action

Bond Required?

–

Additional Applicant Info

Applicant Type*

Other

Permit Info

Type of Application*

New Application

Permit For*

Application by Town of Bolton or Non-profit group

Occupancy Type*

Town of Bolton

Lots

–

Work Description*

Construction of a soccer field at Herrick Park

Development Title

Herrick Memorial Park Soccer Field

Comments

Distance from Inland Wetlands and Watercourses:

Current Distance

155

Proposed Distance

10

Wetland / Watercourses Project Information

Size of Subject Property (acres)

73

Total area of wetlands to be affected by the activity (acres)

0

Open water body altered (acres)

0

Stream alternation (linear feet)

0

Buffer/upland area altered (acres)

1.15

Area of wetlands/watercourses restored, enhanced, or created (acres)

0

Described how the proposed activity affects wetlands, watercourses, and the regulated areas.

Described measures that will be taken to minimize the impact on wetlands, watercourses, and the regulated areas.

Sedimentation control fence, erosion control blankets and a construction entrance.

Is there a Conservation or Preservation Restruction on the Property?

No

Is this an activity associated with a use for which you intend to apply to the Planning & Zoning Commission?

No

Please read and check the following statements. By checking these boxes, you agree to abide by the statutes and ordinances of the Town of Bolton and the State of Connecticut.

I understand that the Commission may require additional information at any time during the review of the application as described in Section 7.6 of the Inland Wetlands and Watercourses Regulations. *

☑

The Applicant must ensure that this application is complete and conforms with the Inland Wetlands and Watercourses Regulations (available at the Land Use Office for $10.00). Ten (10) copies of supporting documents must be provided. The Commission encourages the applicant to discuss any project with the Town Staff and/or the Commission before submitting an application. The Commission requests that applications be submitted at least one week before the meeting. *

☑

The Agency shall monitor all Bolton wetland and watercourses and have enforcement powers as described in Section 14 of the Inland Wetlands and Watercourses Regulations. The Commission Members and designed agent(s) may make regular inspections upon reasonable notice of all regulated activities to investigate possible violations of the Inland Wetlands and Watercourses Regulations. *

☑

If this application is filed with the Inland Wetlands Agent under Section 12.1 of the Inland Wetlands and Watercourses Regulations, the Applicant may appeal the Agent's decision according to the process descibed in section 12.2 of the Inland Wetlands and Watercourses Regulations. *

☑

Attorney Info

Name

Address

City

State

Zip

Phone

Email

Engineer Information

Company Name

Nathan L. Jacobson & Assoc.

Engineer Name

Joe Dillon

Address

86 Main St.

City

Chester

State

CT

Zip

06412-0337

Phone

860-526-9591

Registration #

PEN 0022903

Insurance Expiration

–

AOR

Email

jdillon@nlja.com

Additional Project Info

Date of Receipt

–

Hearings Commencement Deadline

–

Hearings Completion Deadline

–

Decision Deadline

–

Total Acreage

73.92

Distance to Town Line

Extended

☐

Hearing Not Required

☐

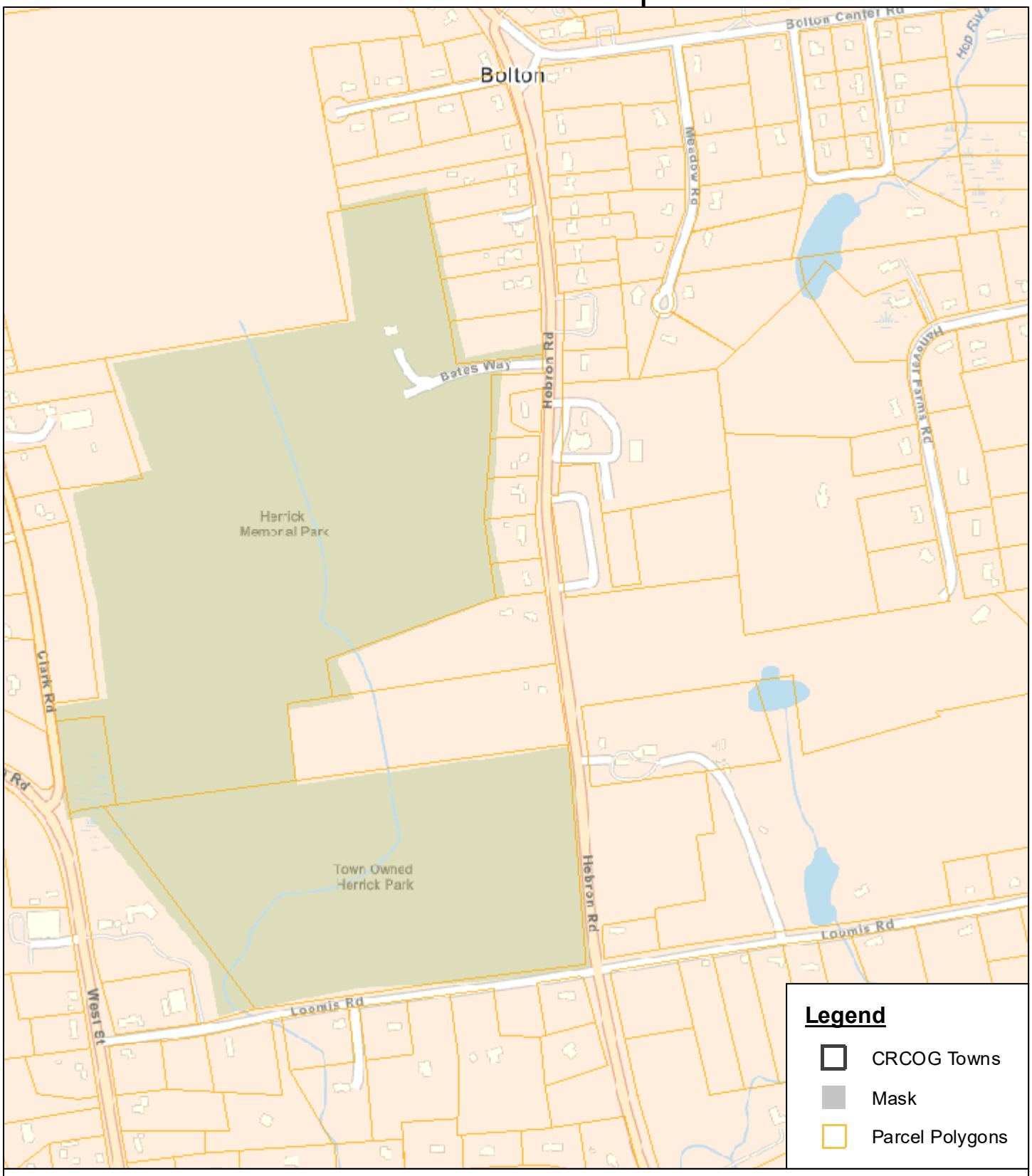
Attachments

Key Map of Property
_ags_9873431e823d4f97b866c39097758537.pdf
Uploaded by Joseph Dillon on Oct 23, 2025 at 10:57 AM

2025-10-22 Herrick Park.pdf
2025-10-22 Herrick Park.pdf
Uploaded by Joseph Dillon on Oct 23, 2025 at 9:41 AM

Abutting Properties.pdf
Abutting Properties.pdf
Uploaded by Danielle Palazzini on Oct 23, 2025 at 11:52 AM

ArcGIS Web Map



N
W E
S

CRCOG CAPITOL REGION COUNCIL OF GOVERNMENTS
Working together for a better region.

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

Scale
1:10,000
Created: 10/23/2025

ABBREVIATIONS

Bit.	BITUMINOUS
Conc.	CONCRETE
CL&P	CONNECTICUT LIGHT AND POWER
EL.	ELEVATION
INV.	INVERT
N/F	NOW OR FORMERLY
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
SNET	SOUTHERN NEW ENGLAND TELEPHONE CO.
T.O.W.	TOP OF WALL
TYP.	TYPICAL

LEGEND

Existing		PROPOSED
100	INDEX CONTOUR	100
98	INTERMEDIATE CONTOUR	98
	STONEWALL	
	APPROXIMATE WETLANDS	
	100' WETLANDS BOUNDARY	
	PROPERTY LINE	
	IRON ROD	
	SURVEY CONTROL	
	UTILITY POLE	
	EDGE OF GRAVEL	
	EDGE OF PAVEMENT	
	DRAINAGE PIPE	
	TREE LINE	
	RIPRAP	
	GRAVEL	
	EROSION CONTROL BLANKET	
	SEDIMENTATION FEE	

PERMITTING
OCTOBER 2025

TOWN OF
BOLTON

CONNECTICUT

HERRICK MEMORIAL PARK
SOCCER FIELD

BOARD OF SELECTMEN

RODNEY FOURNIER, FIRST SELECTMAN
PAMELA SAWYER, SELECTMAN
TIMOTHY SADLER, SELECTMAN
ROBER MORRA, SELECTMAN
MATHER CLARK, SELECTMAN
AMANDA GORDON, SELECTMAN
GWEN MARRION, SELECTMAN

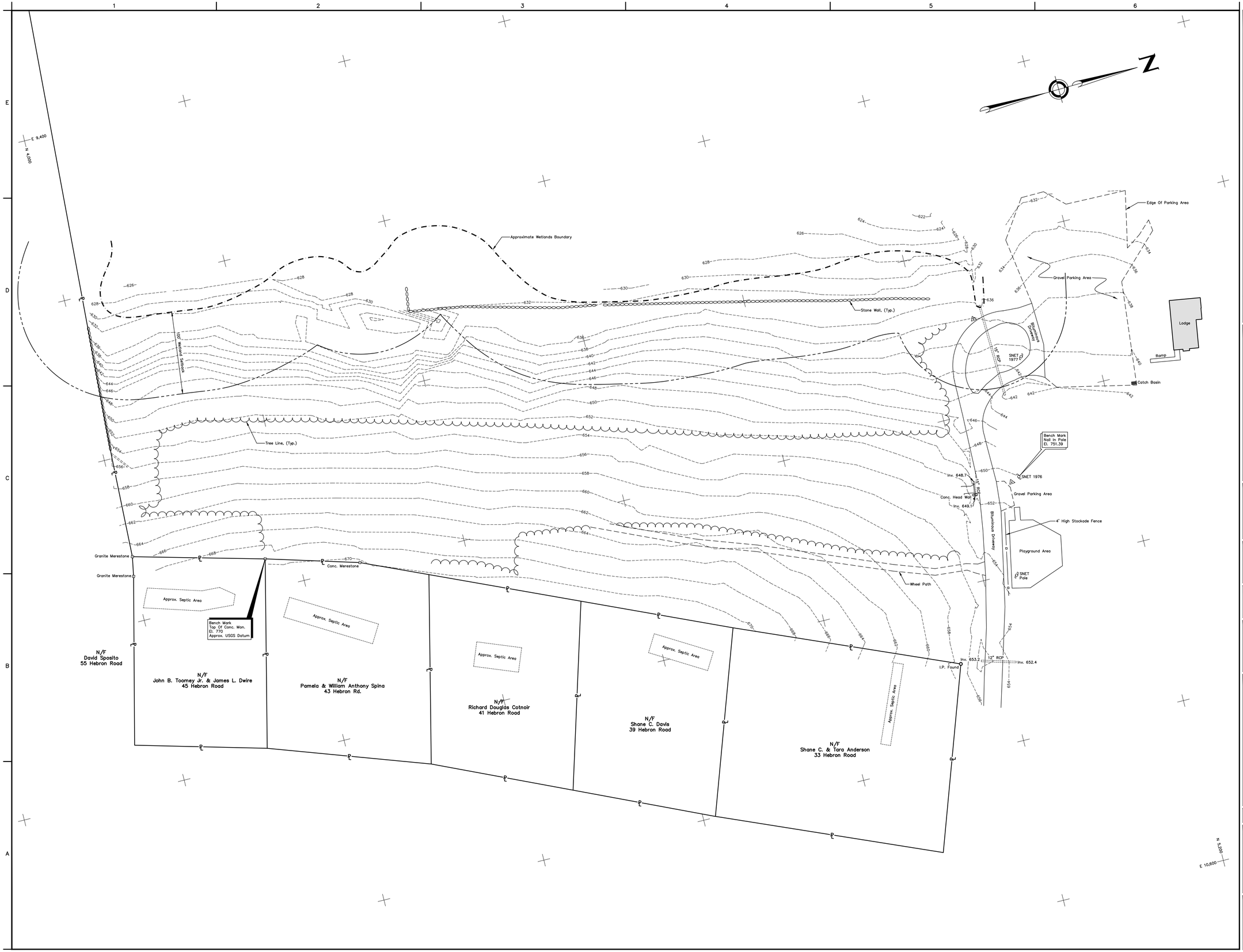
SCHEDULE OF DRAWINGS

PROJECT LOCATION MAP
SCALE: 1" = 2000'
2000 1000 0 2000 4000
(SCALE IN FEET)

Nathan L. Jacobson & Associates, Inc.
86 Main Street P.O. Box 337
Chester, Connecticut 06412-0337
Tel: (860) 526-9591 Fax: (860) 526-5416
www.nlja.com
Jacobson Consulting Civil and Environmental Engineers Since 1972

JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903

PHASE: CONSTRUCTION DOCUMENTS DATE: JUNE 2025
PROJECT NAME: TOWN OF BOLTON HERRICK PARK SOCCER FIELD
PROJECT NO. 09630011



NOTES:

1. SEE PROJECT NOTES SHEET 7.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

GRAPHIC SCALE
50 40 30 20 10 0 50 100
SCALE: 1"=50'

TOWN OF BOLTON, CONNECTICUT

HERRICK MEMORIAL PARK SOCCER FIELD

EXISTING CONDITIONS

PERMITTING

Land Survey & Technical Services, Inc.
86 Main Street P.O. Box 337
Chester, Connecticut 06412-0337
Tel: (860) 526-4522 Fax: (860) 526-5416
www.nlja.com
An Affiliate of Nathan L. Jacobson & Associates, Inc.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

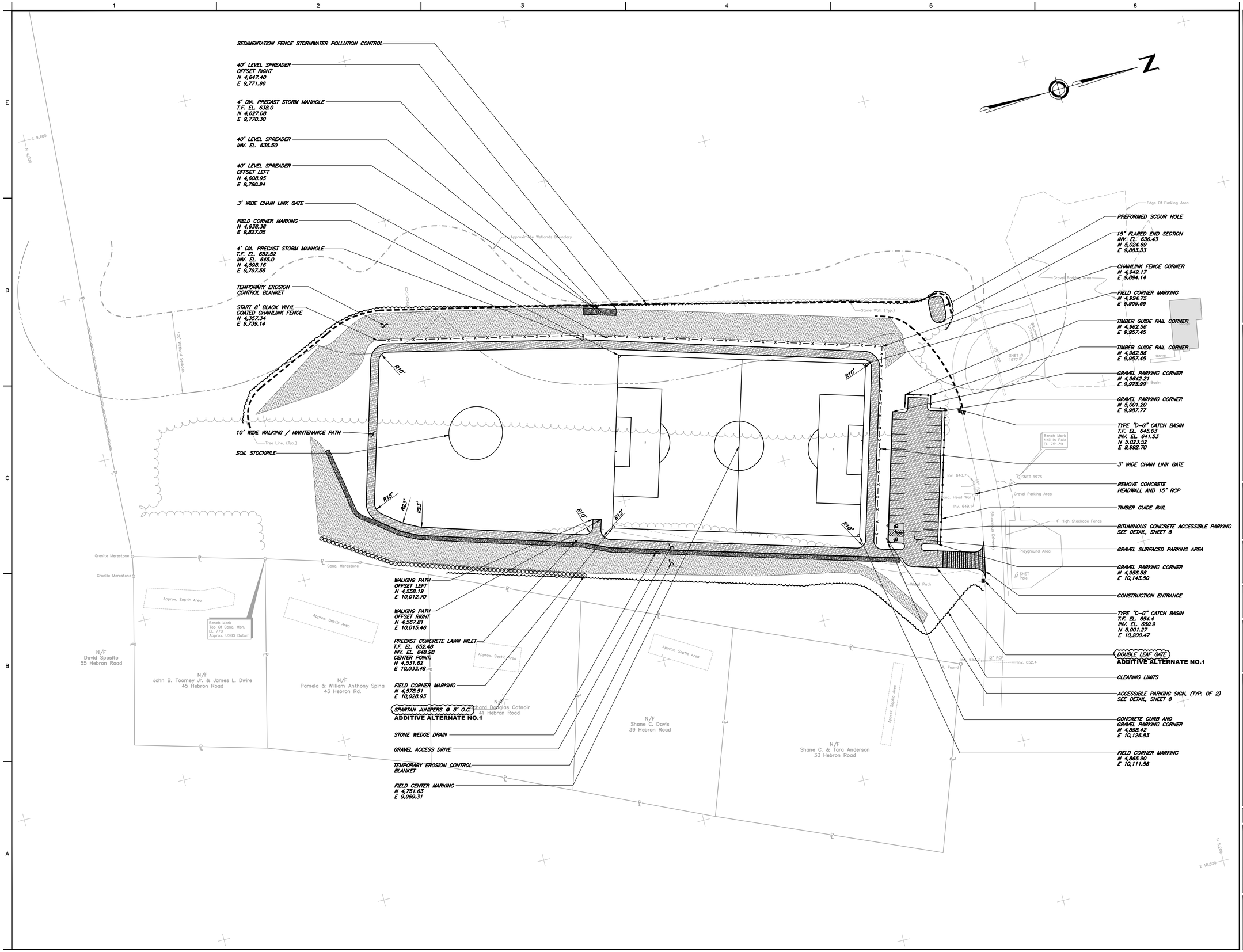
JEFFREY A. SANBORN, L.S.
CT REGISTRATION No. 12883

REVISIONS

No.	DESCRIPTION	DATE

DATE:	OCTOBER 2025
SCALE:	1"=50'
PROJECT No.:	09630011
CADD FILE:	09630011SP
DESIGNED:	-
DRAWN:	CEB/TPH
CHECKED:	-

SHEET No.:
2 OF 8



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GRAPHIC SCALE

50 40 30 20 10 0 50 100

SCALE: 1"=50'

TOWN OF BOLTON, CONNECTICUT

HERRICK MEMORIAL PARK SOCCER FIELD

SITE PLAN LAYOUT

PERMITTING

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JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903

REVISIONS

No.	DESCRIPTION	DATE

DATE:	OCTOBER 2025
SCALE:	1"=50'
PROJECT No.:	09630011
CADD FILE:	09630011SP
DESIGNED:	JMD
DRAWN:	CEB/TPH/TPH
CHECKED:	-

SHEET No.: 3 OF 8

SEDIMENTATION FENCE STORMWATER POLLUTION CONTROL

4' DIA. PRECAST STORM MANHOLE
T.F. EL. 638.0

40' LEVEL SPREADER
INV. EL. 635.50

3' WIDE CHAIN LINK GATE

4' DIA. PRECAST STORM MANHOLE
T.F. EL. 652.52
INV. EL. 645.0

TEMPORARY EROSION CONTROL BLANKET

8' BLACK VINYL COATED CHAINLINK FENCE

PREFORMED SCOUR HOLE

15" FLARED END SECTION
INV. EL. 636.43

SOIL STOCKPILE

10' WIDE WALKING / MAINTENANCE PATH

PRECAST CONCRETE LAWN INLET
T.F. EL. 652.48
INV. EL. 648.98

STONE WEDGE DRAIN

GRAVEL ACCESS DRIVE

TEMPORARY EROSION CONTROL BLANKET

TYPE "C-G" CATCH BASIN
T.F. EL. 645.03
INV. EL. 641.53

3' WIDE CHAIN LINK GATE

TIMBER GUIDE RAIL

REMOVE CONCRETE HEADWALL AND 15" RCP

GRAVEL SURFACED PARKING AREA

CONCRETE CURB

CONSTRUCTION ENTRANCE

TYPE "C-G" CATCH BASIN
T.F. EL. 654.4
INV. EL. 650.9

DOUBLE LEAF GATE

CLEARING LIMITS

15" DIA. HDPE

Approximate Wetlands Boundary

100' Wetland Setback

Tree Line, (Typ.)

Granite Merestone

Conc. Merestone

Bench Mark:
Top Of Conc. Mon.
El. 770
Approx. USGS Datum

Approx. Septic Area

Stone Wall, (Typ.)

Edge Of Parking Area

Gravel Parking Area

Lodge

Ramp

Catch Basin

Driveway

SNET 1977

SNET 1976

Nail In Pole
El. 751.39

Playground Area

Wheel Path

Inv. 653.2

12" RCP

Inv. 652.4

I.P. Found

N/F
David Sposito
55 Hebron Road

N/F
John B. Toomey Jr. & James L. Dwire
45 Hebron Road

N/F
Pamela & William Anthony Spina
43 Hebron Rd.

N/F
Richard Douglas Cotnoir
41 Hebron Road

N/F
Shane C. Davis
39 Hebron Road

N/F
Shane C. & Tara Anderson
33 Hebron Road

E 9,400
N 4,000

N 5,200
E 10,600

NOTES:

1. SEE PROJECT NOTES SHEET 7.

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GRAPHIC SCALE
50 40 30 20 10 0 50 100
SCALE: 1"=50'

TOWN OF BOLTON, CONNECTICUT

HERRICK MEMORIAL PARK SOCCER FIELD

GRADING, UTILITY AND EROSION & SEDIMENT CONTROL PLAN

PERMITTING

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JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903

REVISIONS

No.	DESCRIPTION	DATE

DATE:	OCTOBER 2025
SCALE:	1"=50'
PROJECT No.:	09630011
CADD FILE:	09630011SP
DESIGNED:	JMD
DRAWN:	CEB/TPH/TPH
CHECKED:	-

SHEET No.:
4 OF 8

PROJECT NARRATIVE:

THE SUBJECT PROJECT INCLUDES THE CONSTRUCTION OF A GRASSED SOCCER FIELD WITH ASSOCIATED PARKING AREAS AND DRAINAGE.

ADDRESS OF PROPOSED USE:

HERRICK MEMORIAL PARK
29 HEBRON ROAD
BOLTON, CT 06043

ADDRESS OF OWNER'S AGENT:

JAMES RUPERT
TOWN ADMINISTRATOR
222 BOLTON CENTER ROAD
BOLTON, CT 06043

ADDRESS OF PROPERTY OWNER:

TOWN OF BOLTON
222 BOLTON CENTER ROAD
BOLTON, CT 06043

CONSTRUCTION SCHEDULING:

IT IS PROPOSED TO PERFORM CONSTRUCTION IN THE SUMMER OF 2015. IN GENERAL, THE SEQUENCE FOR CONSTRUCTION AND SITE STABILIZATION MAY BE AS FOLLOWS:

1. INSTALL CONSTRUCTION ENTRANCE, AND SEDIMENT AND EROSION CONTROLS.
2. INSTALL SEDIMENT AND EROSION CONTROLS.
3. CLEAR VEGETATION, CUT TREES AND GRIND STUMPS WITHIN THE CLEARING LIMITS.
4. CONDUCT EARTHWORK CUTS AND FILLS.
5. INSTALL DRAINAGE STRUCTURES AND PIPE.
6. INSTALL GRAVELS FOR ACCESS DRIVE AND PARKING AREA.
7. PLACE TOPSOIL AND SEED IN ALL AREAS OTHER THAN AREAS SURFACED WITH GRAVEL.
8. PLACE EROSION CONTROL BLANKETS ON SLOPES AS SPECIFIED ON DRAWINGS.
9. INSTALL FENCING AND GUIDE RAILS.
10. CLEAN UP AND REMOVE ALL CONSTRUCTION MATERIALS, EQUIPMENT, SURPLUS MATERIALS AND DEBRIS FROM PROJECT SITE.
11. SILT FENCE TO BE REMOVED WITHIN 30 DAYS AFTER STABILIZATION OF DISTURBED AREAS.

THE CONTRACTOR SELECTED TO CONSTRUCT THIS PROJECT WILL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES ON THIS SITE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE THE BOLTON CONSERVATION COMMISSION ENFORCEMENT OFFICERS, INLAND WETLANDS ENFORCEMENT OFFICERS, TOWN ENGINEERS AND ZONING ENFORCEMENT OFFICERS WITH THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON. SHOULD ANY PROBLEMS OCCUR, THEN THE OWNER'S AGENT SHOULD BE CONTACTED.

CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE OWNER'S AGENT AND THE TOWN ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSONS TO BE CONTACTED IN THE EVENT OF AN EROSION AND/OR SEDIMENT CONTROL PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL SEDIMENTATION CONTROL FENCE AND/OR HAY BALES ON THE PROJECT SITE TO CONTROL UNFORESEEN EROSION AND/OR SEDIMENT PROBLEMS. IN THE EVENT OF A PROBLEM THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE OWNER'S AGENT.

EROSION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN FOR THE PROJECT.

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. ALTERNATIVE MEASURES, METHODS, MEANS AND TECHNIQUES MAY BE ALLOWED WITH THE PRIOR APPROVAL OF THE OWNER'S AGENT.

GENERAL GUIDELINES:

5. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN AREAS DESIGNATED AS INLAND WETLANDS, WATERCOURSES OR FLOODPLAINS, DESIGNATED UPLAND REVIEW ZONES OR WITHIN STREAM CHANNEL ENCROACHMENT LINES WITHOUT ALL REQUIRED APPROVALS AND/OR PERMITS.
6. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
7. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
8. THE CONTRACTOR SHALL LIMIT THE DISTURBANCE OF LAND TO THOSE AREAS SHOWN ON THE DRAWINGS AND SHALL TAKE REASONABLE CARE TO PROTECT AND PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE WHERE FEASIBLE.
9. WHERE PRACTICABLE, THE CONTRACTOR SHALL PLAN HIS CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. THE CONTRACTOR SHALL TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS. THE INSTALLATION OF PERMANENT VEGETATIVE MEASURES SHALL BE ACCOMPLISHED AS SOON AS IS PRACTICABLE.
10. ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE.
11. ALL MATERIAL FROM CLEARING AND GRUBBING OPERATIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER.
12. WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED. NO WATER FROM DEWATERING OPERATIONS SHALL BE DISCHARGED INTO A SANITARY SEWER SYSTEM.
13. THE STORAGE, WASHING, FUELING AND MAINTENANCE OF EQUIPMENT AND VEHICLES SHALL TAKE PLACE IN DESIGNATED AREAS ONLY. IN THE EVENT OF A CONTAMINANT SPILL THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION OIL AND CHEMICAL SPILL RESPONSE DIVISION (860-424-3338) AND THE OWNER'S AGENT.

PRESERVE AND CONSERVE SOIL

TOPSOILING

MATERIALS

SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTITY OF TOPSOIL OF GOOD QUALITY ON THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.

ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION RATES OF LIME AND FERTILIZER.

INSTALLATION REQUIREMENTS

1. STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. THE DEPTH OF REMOVAL MAY VARY DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO BEGINNING STRIPPING OPERATIONS.
2. TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLOW IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.
3. SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
4. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
5. TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 30 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS.
6. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE DRAWINGS.
7. WHERE THE pH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST TO A pH OF 6.0 TO 6.5 OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.
8. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING OR TRACKING TO A DEPTH OF AT LEAST 4 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
9. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 6 INCHES, UNLESS OTHERWISE NOTED. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
10. TOPSOIL SHALL BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A DURABLE TURF. UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION.
11. IMMEDIATELY FOLLOWING TOPSOIL APPLICATION, PROTECT THE TOPSOIL FROM EROSION BY EITHER SODDING, SEEDING AND/OR MULCHING.

LAND GRADING

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
3. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
4. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS.
5. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
6. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.
7. TOPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR TOPSOILING.
8. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

DUST CONTROL

INSTALLATION REQUIREMENTS

WATER

1. THE EXPOSED SOIL SURFACE SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE QUANTITIES OF WATER TO CONTROL DUST.

STONE

1. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO WATERWAYS USE CHEMICALLY STABLE AGGREGATE.

MAINTENANCE

1. WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

VEGETATIVE SOIL COVER

TEMPORARY SEEDING

INSTALLATION REQUIREMENTS

SITE PREPARATION

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.
2. INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING

1. ANNUAL RYE GRASS 40 LBS/ACRE, 1 LB/1000 SF
2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED.
3. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.
4. SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

MARCH 15 THROUGH JUNE 15
AUGUST 15 THROUGH OCTOBER 15

PERMANENT SEEDING

INSTALLATION REQUIREMENTS

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 36-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

2. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
3. REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION UNLESS OTHERWISE SPECIFIED. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
4. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

SEEDING DATES

1. SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED, HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 15 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

MARCH 15 THROUGH JUNE 15
SEPTEMBER 1 THROUGH OCTOBER 15

2. WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.

SEEDING

1. UNLESS OTHERWISE SPECIFIED, THE SEED MIXTURE SHALL BE NEW ENGLAND CONSERVATION/WILDLIFE MIX FROM NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA, OR ACCEPTED SUBSTITUTION.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. NORMAL SEEDING RATES IN FROM 1/4 TO 1/2 INCH; HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.
3. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.
4. FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN USING THIS METHOD.
5. HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE ON CRITICAL AREAS. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN ONE INCH IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO ONE FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH DOES NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.
6. APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING MEASURE.
7. IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

MAINTENANCE

1. LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM OF EVERY FIVE YEARS USING A RATE OF TWO TONS PER ACRE (100 POUNDS PER 1,000 SQUARE FEET).
2. WHERE GRASSES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST BIENNIALLY, 300 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1,000 SQUARE FEET).
3. WHERE LEGUMES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST EVERY THREE YEARS 300 POUNDS OF 0-20-20 PER ACRE OR EQUIVALENT (7.5 POUNDS PER 1,000 SQUARE FEET).

NON-LIVING SOIL PROTECTION

MULCH FOR SEED

MATERIALS

1. SELECT MULCH MATERIALS BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS AND LABOR AND EQUIPMENT. OTHER MATERIALS MAY BE USED ONLY WITH THE PERMISSION OF THE APPROVING AUTHORITY.

INSTALLATION REQUIREMENTS

ORGANIC MULCHES

1. ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED BELOW:

	RATES	
MULCHES	PER ACRE	PER 1,000 SQUARE FEET
STRAW OR HAY	1 1/2 - 2 TONS	35-45 LBS

APPLICATION

1. MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND PLACE 35-45 POUNDS (3/4 TO 1 BALE) OF STRAW OR HAY IN EACH SECTION TO ENSURE UNIFORM DISTRIBUTION.

ANCHORING

1. HAY OR STRAW MULCHES MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWING. HAY OR STRAW MULCH MAY BE ANCHORED BY TRACKING WITH CONSTRUCTION EQUIPMENT, BUT NOT BY USING NETTING.

MAINTENANCE

1. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH SHOULD BE APPLIED. NETS SHALL BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NET AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE, REPAIR AS NEEDED.

TEMPORARY EROSION CONTROL BLANKET

DEFINITION

1. A MANUFACTURED BLANKET COMPOSED OF BIODEGRADABLE/PHOTODEGRADABLE NATURAL OR POLYMER FIBERS AND/OR FILAMENTS THAT HAVE BEEN MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX.

PURPOSE

1. TO PROVIDE TEMPORARY SURFACE PROTECTION TO NEWLY SEEDED AND/OR DISTURBED SOILS TO ABSORB RAINDROP IMPACT AND TO REDUCE SHEET AND RILL EROSION AND TO ENHANCE THE ESTABLISHMENT OF VEGETATION.

APPLICABILITY

1. ON DISTURBED SOILS WHERE SLOPES ARE 2:1 OR STEEPER.
2. WHERE WIND AND TRAFFIC GENERATED AIR FLOW MAY DISLODGE STANDARD, UNARMORED MULCHES.
3. MAY BE USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION.
4. MAY BE USE AS A SUBSTITUTE FOR MULCH FOR SEED.

PLANNING CONSIDERATION

1. THE SUCCESS OF TEMPORARY EROSION CONTROL BLANKETS IS DEPENDENT UPON STRICT ADHERENCE TO THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

MATERIALS

1. TEMPORARY EROSION CONTROL BLANKETS SHALL BE COMPOSED OF FIBERS AND/OR FILAMENTS THAT:
   - A. ARE BIODEGRADABLE OR PHOTODEGRADABLE WITHIN TWO YEARS BUT WITHOUT SUBSTANTIAL DEGRADATION OVER THE PERIOD OF INTENDED USAGE (FIVE MONTHS MAXIMUM);
   - B. ARE MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX OF EVEN THICKNESS AND DISTRIBUTION THAT RESIST RAINDROP SPLASH AND WHEN USED WITH SEEDINGS ALLOW VEGETATION TO PENETRATE THE BLANKET;
   - C. ARE OF SUFFICIENT STRUCTURAL STRENGTH TO WITHSTAND STRETCHING OR MOVEMENT BY WIND OR WATER WHEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS;
   - D. ARE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES WITH SEED GERMINATION;
   - E. CONTAIN NO CONTAMINANTS THAT POLLUTE THE AIR OR WATERS OF THE STATE WHEN PROPERLY APPLIED;
   - F. PROVIDE EITHER 80% - 95% SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR MULCH FOR SEED OR 100% INITIAL SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION MEASURE, AND;
   - G. DO NOT CONTAIN NETTING.
2. MATERIALS SHALL BE SELECTED AS APPROPRIATE FOR THE SPECIFIC SITE CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE OF ANY PARTICULAR TEMPORARY EROSION CONTROL BLANKET SHOULD BE SUPPORTED BY MANUFACTURER'S TEST DATA THAT CONFIRMS THE BLANKET MEETS THESE MATERIAL SPECIFICATIONS AND WILL PROVIDE THE SHORT TERM EROSION CONTROL CAPABILITIES NECESSARY FOR THE SPECIFIC PROJECT.

SITE PREPARATION AND INSTALLATION

1. PREPARE THE SURFACE, REMOVE PROTRUDING OBJECTS AND INSTALL TEMPORARY EROSION CONTROL BLANKETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE THAT THE ORIENTATION AND ANCHORING OF THE BLANKET IS APPROPRIATE FOR THE SITE.
2. THE BLANKET CAN BE LAID OVER AREAS WHERE SPRIGGED GRASS SEEDLINGS HAVE BEEN INSERTED INTO THE SOIL.
3. WHERE LANDSCAPE PLANTINGS ARE PLANNED, LAY THE BLANKET FIRST AND THEN PLANT THROUGH THE BLANKET IN ACCORDANCE WITH LANDSCAPE PLANTING MEASURE.
4. INSPECT THE INSTALLATION TO INSURE THAT ALL LAP JOINTS ARE SECURE. ALL EDGES ARE PROPERLY ANCHORED AND ALL STAKING OR STAPLING PATTERNS FOLLOW MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

1. INSPECT TEMPORARY EROSION CONTROL BLANKETS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR FAILURES UNTIL THE TURF HAS BECOME ESTABLISHED. MAT FAILURE HAS OCCURRED WHEN SOILS AND/OR SEED HAVE WASHED AWAY FROM BENEATH OR WITHIN THE MAT RESULTING IN A SOIL SURFACE THAT CAN BE EXPECTED TO CONTINUE TO ERODE OR WHEN THE MAT HAS BECOME DISLODGED FROM THE SOIL SURFACE. WHEN REPETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS OF TURF REINFORCEMENT MATS AND DETERMINE IF ADDITIONAL CONTROLS, (E.G. DIVERSIONS, STONE BARRIERS) ARE NEEDED TO ENSURE SUCCESS. REPAIR MAT FAILURES WITHIN ONE WORK DAY.
2. AFTER THE TURF HAS BECOME ESTABLISHED, INSPECT ANNUALLY OR AFTER MAJOR STORM EVENTS.

ENERGY DISSIPATORS

STONE CHECK DAM

DEFINITION

1. A TEMPORARY STONE DAM PLACED ACROSS A DRAINAGEWAY.

PURPOSE

1. TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE DRAINAGEWAY.
2. TO TEMPORARILY POND STORM WATER RUNOFF TO ALLOW SEDIMENTS TO SETTLE OUT.

APPLICABILITY

1. WHERE CONCENTRATED FLOWS ARE EXPECTED TO CAUSE EROSION.
2. FOR TEMPORARY DRAINAGEWAYS WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, WILL NOT RECEIVE A NON-ERODABLE LINING BUT STILL NEED PROTECTION TO REDUCE EROSION.
3. FOR PERMANENT DRAINAGEWAYS WHICH, FOR SOME REASON, WILL NOT RECEIVE A PERMANENT NON-ERODABLE LINING FOR AN EXTENDED PERIOD OF TIME.
4. FOR TEMPORARY OR PERMANENT DRAINAGEWAYS WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF VEGETATIVE LININGS. THIS MEASURE IS NOT A SUBSTITUTE FOR A TEMPORARY SEDIMENT TRAP OR A TEMPORARY SEDIMENT BASIN, HOWEVER, STONE CHECK DAMS MAY BE USED IN CONJUNCTION WITH THOSE MEASURES.

PLANNING CONSIDERATIONS

1. A STONE CHECK DAM IS CONSIDERED TO BE TEMPORARY IF IT IS USED LESS THAN 1 YEAR. IT IS CONSIDERED TO BE PERMANENT IF IT IS USED MORE THAN 1 YEAR.

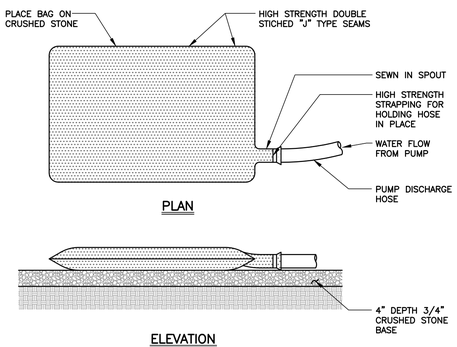
DESIGN REQUIREMENTS	DRAINAGE AREA	LENGTH OF USE
NO ENGINEERED DESIGN	< OR = 2 ACRES	<6 MONTHS
2-YR FREQUENCY STORM	>2 ACRES	6 MONTHS TO <1 YEAR
25-YR FREQUENCY STORM	ANY DRAINAGE SIZE	>1 YEAR

DESIGN CRITERIA

1. FOR USE OF A STONE CHECK DAM LESS THAN 1 YEAR, DESIGN THE STONE CHECK DAM TO SAFELY PASS THE PEAK FLOW EXPECTED FROM A 2-YEAR FREQUENCY STORM WITHOUT STRUCTURAL FAILURE AND ADVERSE TAILWATER EFFECTS.
2. FOR USE OF A STONE CHECK DAM EXCEEDING 1 YEAR, DESIGN THE STONE CHECK DAM TO SAFELY PASS THE PEAK FLOW EXPECTED FROM A 25-YEAR FREQUENCY STORM WITHOUT STRUCTURAL FAILURE OF THE CHECK DAM AND ADVERSE TAILWATER EFFECTS.

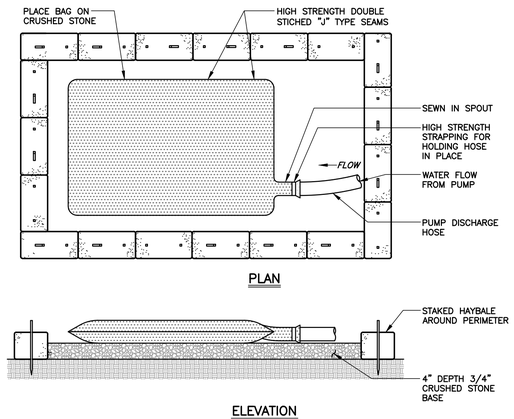
SPECIFICATIONS

1. FOR ENGINEERED STONE CHECK DAMS, CONSTRUCT THE STONE CHECK DAM IN ACCORDANCE WITH THE DESIGN STANDARDS AND SPECIFICATIONS. FOR ALL NON-ENGINEERED STONE CHECK DAMS, COMPLY WITH THE FOLLOWING SPECIFICATIONS



DIRTBAG® FOR PUMP DISCHARGE

N.T.S.



NON-WOVEN GEOTEXTILE PUMP DISCHARGE

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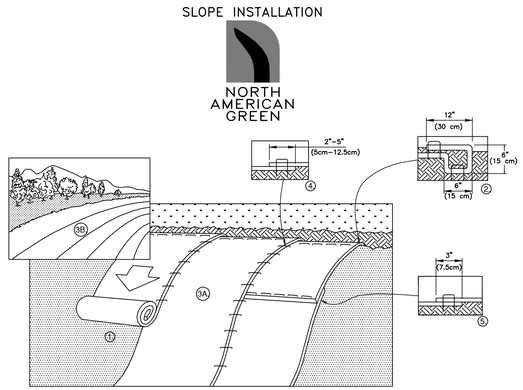

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH*ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

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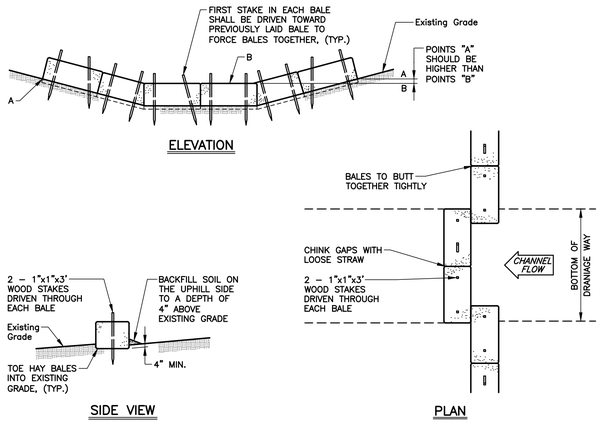

BALED HAY OR STRAW EROSION CHECKS

(CHANNEL FLOW APPLICATIONS)

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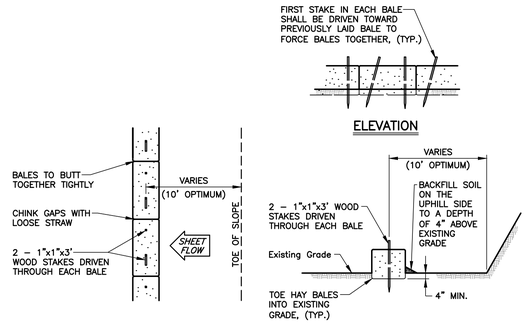

BALED HAY OR STRAW EROSION CHECKS

(SHEET FLOW APPLICATIONS)

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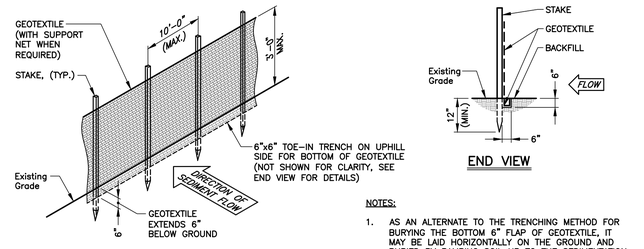
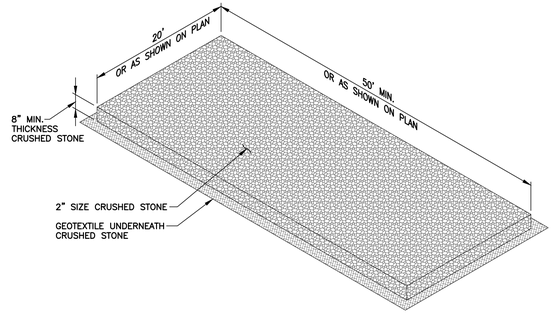


SEDIMENTATION FENCE

N.T.S.

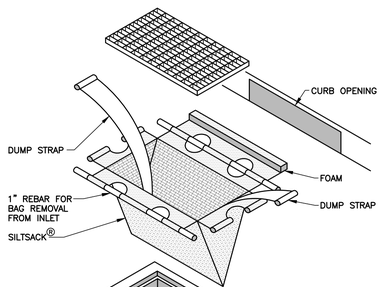
NOTES:

1. AS AN ALTERNATE TO THE TRENCHING METHOD FOR BURYING THE BOTTOM 6" FLAP OF GEOTEXTILE, IT MAY BE LAID HORIZONTALLY ON THE GROUND AND BURIED BY RAMPING SOIL UP TO THE SEDIMENTATION FENCE AS SPECIFIED IN SECTION 2.19.03 OF THE STATE OF CT, DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, 2016, AS AMENDED TO DATE.

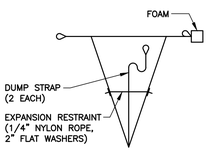


CONSTRUCTION ENTRANCE

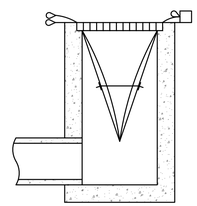
N.T.S.



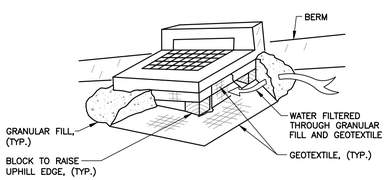
INSTALLATION SCHEMATIC



BAG DETAIL



INSTALLATION DETAIL



PRIOR TO TOP COURSE PAVING

NOTES:

1. THIS DETAIL APPLIES TO STRUCTURES IN PAVEMENT AND NOT TO STRUCTURES OFF PAVEMENT.

AFTER TOP COURSE PAVING

NOTES:

1. FOR DRAINAGE STRUCTURES OFF PAVEMENT, THIS DETAIL APPLIES IMMEDIATELY AFTER THEIR CONSTRUCTION
2. REMOVE SEDIMENT WHEN HALF FULL.

SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE

N.T.S.

NOTES:

1. TYPE "C" CATCH BASIN HEAD SHOWN FOR CLARITY ONLY. THIS DETAIL APPLIES TO ALL STORM DRAINAGE STRUCTURES WITH GRATES AS MAY BE SHOWN ON THE PLAN.

NOTES:

1. SEE PROJECT NOTES SHEET 7.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

TOWN OF BOLTON, CONNECTICUT

HERRICK MEMORIAL PARK SOCCER FIELD

EROSION AND SEDIMENT CONTROL DETAILS

PERMITTING

Nathan L. Jacobson & Associates, Inc.
86 Main Street P.O. Box 337
Chester, Connecticut 06412-0337
Tel: (860) 526-9591 Fax: (860) 526-5416
www.nlja.com
Jacobson Consulting Civil and Environmental Engineers Since 1972

NOT VALID WITHOUT ORIGINAL SEAL

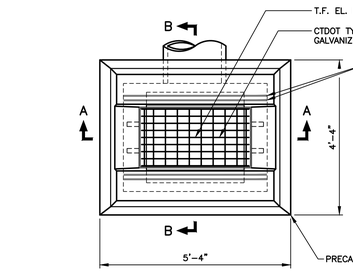
JOSEPH M. DILLON
CT REGISTRATION No. 22903

REVISIONS

No.	DESCRIPTION	DATE

DATE:	OCTOBER 2025
SCALE:	AS NOTED
PROJECT No.:	09630011
CADD FILE:	09630011ED
DESIGNED:	JMD
DRAWN:	TPH
CHECKED:	-

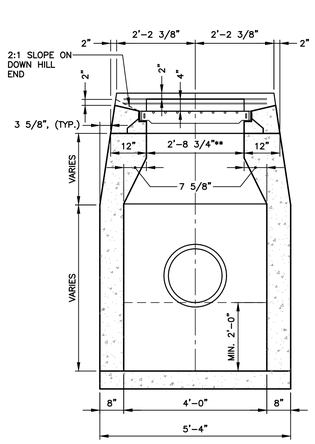
SHEET No.: 6 OF 8



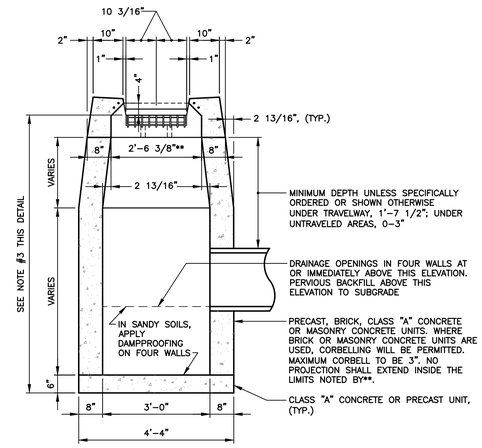
PLAN

NOTES:

1. WHERE PRECAST UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.
2. WHERE SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER, CATCH BASINS SHALL BE CONSTRUCTED WITH PAVED INVERTS AND NO SUMPS, OR DEEP SUMPS.
3. WALLS OF CATCH BASINS OVER 10' DEEP TO BE INCREASED TO 12" THICKNESS. INSIDE DIMENSIONS TO REMAIN THE SAME.
4. PROVIDE MORTAR ON ALL HORIZONTAL SURFACES BETWEEN CATCH BASIN COMPONENTS.



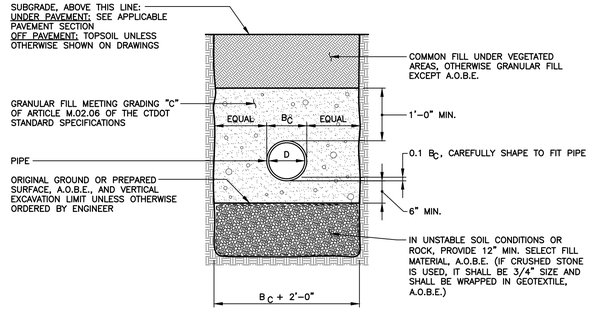
SECTION A–A



SECTION B–B

TYPE "C–G" CATCH BASIN

N.T.S.



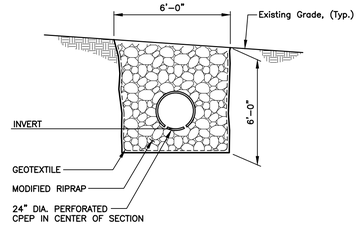
TYPICAL TRENCH SECTION

STORM DRAINAGE PIPE

N.T.S.

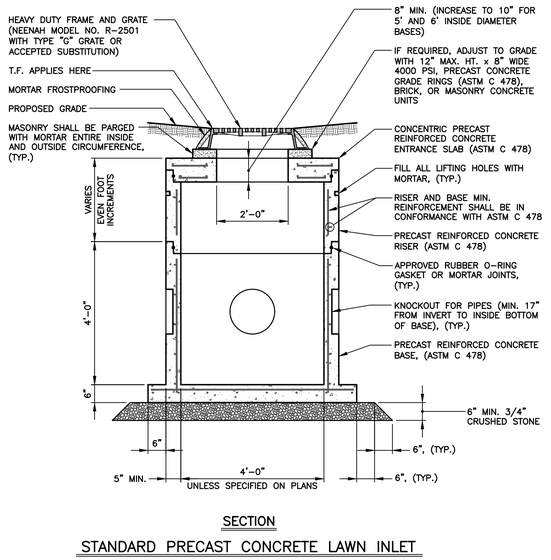
NOTES:

1. CONTRACTOR SHALL PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER METHODS TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO THE EXCAVATION AND DAMAGING THE WORK OR ADJACENT STRUCTURES AND UTILITIES.



STORMWATER DISCHARGE LEVEL SPREADER

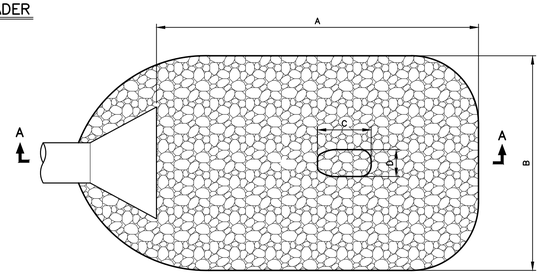
N.T.S.



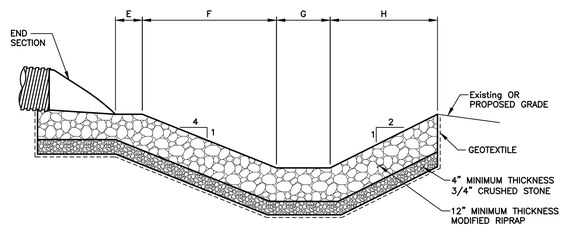
SECTION

STANDARD PRECAST CONCRETE LAWN INLET

N.T.S.



PLAN



SECTION A–A

PREFORMED SCOUR HOLE

N.T.S.

PIPE SIZE	A	B	C	D	E	F	G	H
15"	10'	7'	1 1/2'	1'	1'	5'	1 1/2'	2 1/2'
18"	12'	8'	2'	1'	1'	6'	2'	3'
21"	14'	9'	2 1/2'	1 1/2'	1'	7'	2 1/2'	3 1/2'
24"	17'	10'	2 1/2'	1 1/2'	1'	9'	2 1/2'	4 1/2'
30"	20'	13'	3'	2'	2'	10'	3'	5'
36"	22'	16'	5'	2'	2'	10'	5'	5'
42"	24'	20'	5 1/2'	2'	2'	11'	5 1/2'	5 1/2'
48"	26'	24'	6'	2 1/2'	2'	11'	6'	5 1/2'

PROJECT NOTES:

1. EROSION CONTROLS: INSTALL EROSION CONTROLS TO THE MAXIMUM EXTENT POSSIBLE AND OBTAIN APPROVAL OF THE INSTALLATION FROM THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
2. MAINTENANCE OF EROSION CONTROLS: INSPECT EROSION CONTROLS REGULARLY AND IMMEDIATELY AFTER RAINFALL EVENTS AND MAINTAIN AND MODIFY AS NECESSARY OR AS DIRECTED BY THE TOWN TO ENSURE OPTIMUM PERFORMANCE.
3. PERMITS: ALL ACTIVITIES SHALL COMPLY WITH LOCAL, STATE AND FEDERAL AUTHORIZATIONS.
4. SWEEPING: SWEEP PAVED AREAS DAILY FROM DIRT AND DEBRIS TRACKED FROM CONSTRUCTION ACTIVITIES.
5. STOCKPILES: INSTALL EROSION CONTROLS AROUND THE BASE OF ALL SOIL MATERIAL STOCKPILES, AND TEMPORARILY SEED OR COVER THE PILES WITH AN IMPERVIOUS COVER IF THEY WILL REMAIN ON THE SITE LONGER THAN ONE MONTH.
6. CONSTRUCTION VEHICLES: NO CONSTRUCTION VEHICLES WILL BE STORED, SERVICED, REFUELED, WASHED, OR FLUSHED OUT IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES.
7. SPILL KIT: PROVIDE AND MAINTAIN A SUPPLY OF ABSORBENT SPILL RESPONSE BOOMS AND BLANKETS ON-SITE FOR THE ENTIRE CONSTRUCTION PERIOD.
8. CONTAMINENT SPILLS: NO EQUIPMENT STORAGE, CLEANING, REPAIRING, OR REFUELING SHALL BE CONDUCTED WITHIN 25' OF A WETLAND BOUNDARY. SHOULD ANY CONTAMINANT SPILL OCCUR, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860_424_3338 AND THE ENGINEER.
9. EQUIPMENT MAINTENANCE AND REFUELING: DURING CONSTRUCTION, ROUTINE EQUIPMENT MAINTENANCE AND REFUELING SHALL OCCUR AWAY FROM STORMWATER CATCH BASINS, ON IMPERVIOUS SURFACE WITH OIL ABSORBENT SPILL RESPONSE MATERIALS IN PLACE. NON-ROUTINE MAINTENANCE OF EQUIPMENT SHALL BE CONDUCTED OFF-SITE. SHOULD ANY CONTAMINANT SPILL OCCUR, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860_424_3338 AND THE ENGINEER.
10. FUEL STORAGE: BULK FUEL FOR CONSTRUCTION PURPOSES SHALL NOT BE STORED ON_SITE.
11. HAZARDOUS MATERIAL STORAGE: DURING CONSTRUCTION, ALL OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHALL BE STORED OFF-SITE, OR IF ON-SITE, THEN WITHIN A SECONDARY CONTAINMENT STRUCTURE WITH AN IMPERVIOUS FLOOR THAT WILL BE SECURED DURING NON-WORKING HOURS.
12. TREES: TREES AND VEGETATION TO BE REMOVED MAY NOT ALL BE SHOWN, BUT SHALL BE INCLUDED IN THE WORK. IN ALL CASES, CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO PERFORM THE CONSTRUCTION AS APPROVED BY THE TOWN. TREES TO BE REMOVED SHALL BE INDIVIDUALLY VERIFIED IN THE FIELD WITH THE ENGINEER PRIOR TO THEIR DISTURBANCE.
13. MATERIAL DISPOSAL: SURPLUS OR UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ORDINANCES, RULES, REGULATIONS AND CODES.
14. UNDERGROUND UTILITIES: FOR LOCATION OF UNDERGROUND ELECTRIC, TELEPHONE, GAS, CABLE TV AND OTHER FACILITIES OF PUBLIC UTILITY COMPANIES, INQUIRE OF "CALL BEFORE YOU DIG, INC." AT 1-800-922-4455.
15. SITE DISTURBANCE: SITE DISTURBANCE SHALL BE KEPT TO A MINIMUM.
16. SITE FEATURES: NEATLY REMOVE, STORE AND PROTECT AS APPLICABLE, AND REINSTALL OR REPLACE AS APPLICABLE, EXISTING SITE FEATURES DISTURBED BY CONSTRUCTION, REQUIRED FOR FINISHED CONSTRUCTION.
17. IN GENERAL, *Lower Case Text Identifies Existing Features/Conditions.*
18. IN GENERAL, *UPPER CASE TEXT IDENTIFIES PROPOSED FEATURES/CONDITIONS* UNLESS OTHERWISE SPECIFIED.

NOTES:

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TOWN OF BOLTON, CONNECTICUT

HERRICK MEMORIAL PARK SOCCER FIELD

DETAILS

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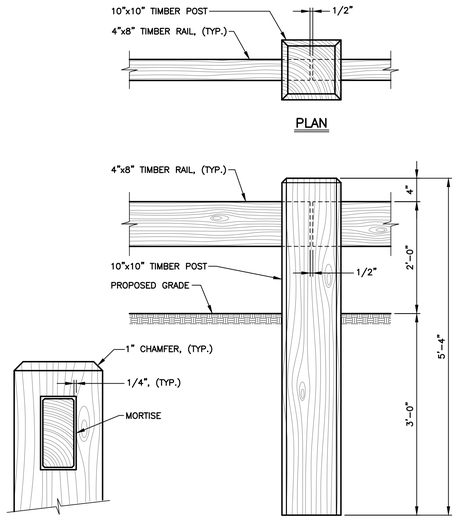
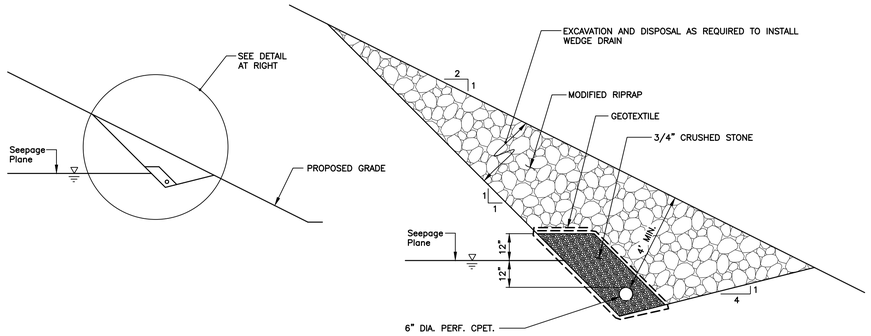
7 OF 8



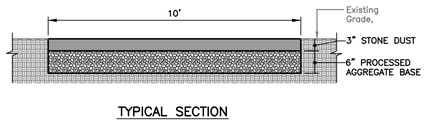
DECORATIVE TIMBER GUIDE RAIL
N.T.S.

NOTES:

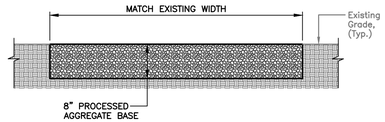
1. POST SPACING SHALL BE 8'–0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.



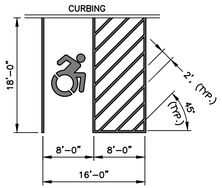
WEDGE DRAIN
N.T.S.



TYPICAL SECTION
GRAVEL WALKWAY/MAINTENANCE PATH
N.T.S.



TYPICAL SECTION
GRAVEL PARKING LOT
N.T.S.

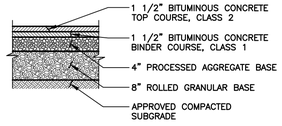


VAN ACCESSIBLE
RESERVED PARKING STALL

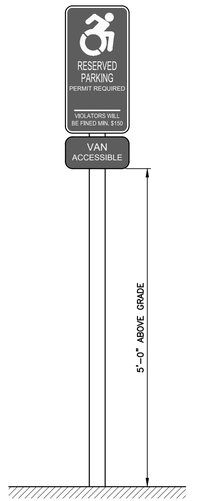
PAVEMENT MARKINGS
N.T.S.

NOTES:

1. LINES ARE 4" WIDE WHITE LINES, USING HOT APPLIED FAST–DRYING PAINT.
2. LINES ADJACENT TO CURBING ARE NOT REQUIRED UNLESS OTHERWISE SHOWN.
3. ACCESS AISLE REQUIRED FOR THIS PROJECT MAY NOT NECESSARILY BE ON THE SIDE OF THE STALL SHOWN. SEE PLAN.



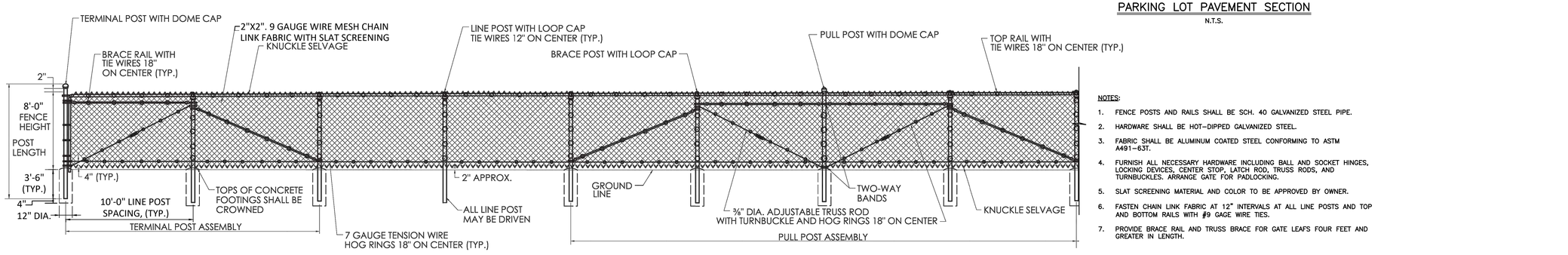
PARKING LOT PAVEMENT SECTION
N.T.S.



VAN ACCESSIBLE RESERVED PARKING SIGNAGE
N.T.S.

NOTES:

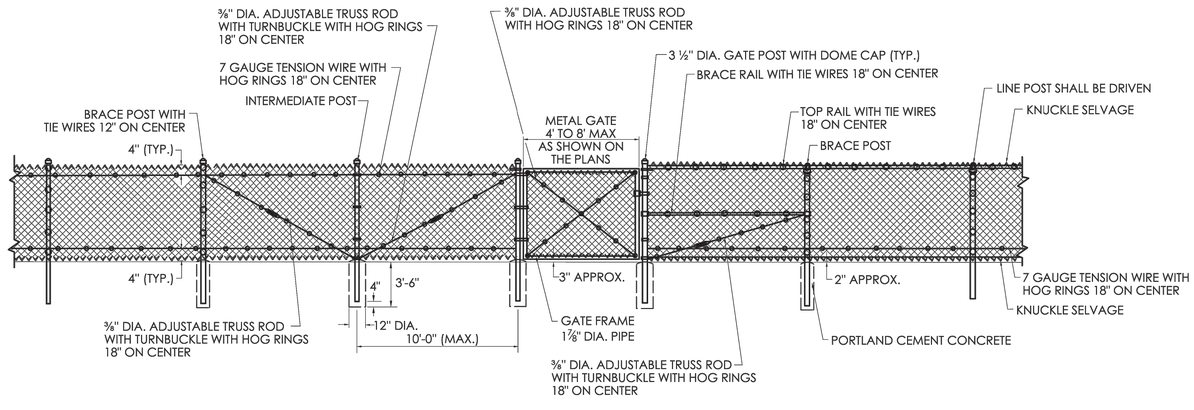
1. SIGNAGE REQUIRED AT EACH VAN ACCESSIBLE RESERVED PARKING STALL.



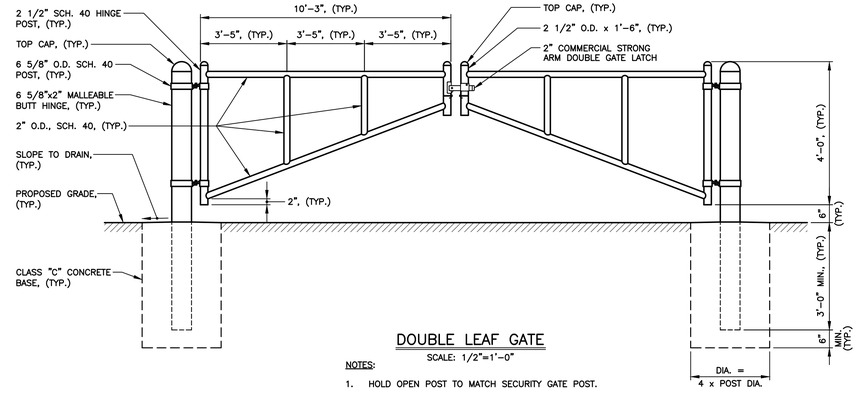
NOTES:

1. FENCE POSTS AND RAILS SHALL BE SCH. 40 GALVANIZED STEEL PIPE.
2. HARDWARE SHALL BE HOT–DIPPED GALVANIZED STEEL.
3. FABRIC SHALL BE ALUMINUM COATED STEEL CONFORMING TO ASTM A491–63T.
4. FURNISH ALL NECESSARY HARDWARE INCLUDING BALL AND SOCKET HINGES, LOCKING DEVICES, CENTER STOP, LATCH ROD, TRUSS RODS, AND TURNBUCKLES. ARRANGE GATE FOR PADLOCKING.
5. SLAT SCREENING MATERIAL AND COLOR TO BE APPROVED BY OWNER.
6. FASTEN CHAIN LINK FABRIC AT 12" INTERVALS AT ALL LINE POSTS AND TOP AND BOTTOM RAILS WITH #9 GAGE WIRE TIES.
7. PROVIDE BRACE RAIL AND TRUSS BRACE FOR GATE LEAFS FOUR FEET AND GREATER IN LENGTH.

CHAIN LINK FENCE WITH TOP BRACE RAIL AND INTERMEDIATE OR BOTTOM TENSION WIRE
N.T.S.



CHAIN LINK FENCE SINGLE METAL GATE
N.T.S.



DOUBLE LEAF GATE
SCALE: 1/2"=1'–0"

NOTES:

1. HOLD OPEN POST TO MATCH SECURITY GATE POST.

NOTES:

1. SEE PROJECT NOTES SHEET 7.

GRAPHIC SCALE
12" 9" 6" 3" 0 1'-0" 2'-0" 3'-0" 4'-0"
SCALE: 1/2"=1'-0"

TOWN OF BOLTON, CONNECTICUT

HERRICK MEMORIAL PARK SOCCER FIELD

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SHEET No.: 8 OF 8

Abutting Property Owners

SUITOR NICOLE D & EARL	42 CLARK RD	BOLTON, CT 06043
CARROLL BIJOUR	54 CLARK RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER RD	BOLTON, CT 06043
SPOSITO DAVID	55 HEBRON RD	BOLTON, CT 06043
COTNOIR RICHARD DOUGLAS	41 HEBRON RD	BOLTON, CT 06043
ALLEMAN RONALD E & BEVERLY S	21 HEBRON RD	BOLTON, CT 06043
PALUSO JOSEPH	27 RICHARDSON DR	HEBRON, CT 06248
BOLTON TOWN OF	29 HEBRON RD	BOLTON, CT 06043
MINICUCCI CHARLES J EST & HEBRON COUNTRY	C/O THOMAS FIORENTINO 773 MAIN ST	MANCHESTER, CT 06040
PRUITT JOSHUA S & THERIAULT AMANDA	46 CLARK RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER RD	BOLTON, CT 06043
MASSEY JAMES W	254 US ROUTE 6W	ANDOVER, CT 06232
TOOMEY JOHN B JR & DWIRE JAMES L	45 HEBRON RD	BOLTON, CT 06043
DAVIS SHANE C	39 HEBRON RD	BOLTON, CT 06043
JENNINGS BRIAN K & EILEEN DULEN-	25 HEBRON RD	BOLTON, CT 06043
WRAIGHT MATTHEW &	17 HEBRON RD	BOLTON, CT 06043
HOLLINGSWORTH PATRICIA A	50 CLARK RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER ROAD	BOLTON, CT 06043
SPINA PAMELA & SPINA WILLIAM ANTHONY	43 HEBRON RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER RD	BOLTON, CT 06043
PALUSO JOSEPH	27 RICHARDSON DR	HEBRON, CT 06248

Town of Bolton, CT

October 24, 2025

IW-25-17

Inland Wetlands

Status: Active

Submitted On: 10/23/2025

Primary Location

206 BOLTON CENTER RD
BOLTON, CT 06043

Owner

No owner information

Applicant

Wade Thomas
860-526-9591 ext. 233
wthomas@nlja.com
P.O. Box 337
86 Main Street
Chester, CT 06412

Internal Use

Conditions

Petition Received?

–

Date Received

–

Date of Newspaper Publication of Inland/Wetlands Commission Action

–

Summary of Inland/Wetlands Commission Action

Bond Required?

–

Parcels Included in Project

MBL / Parcel ID

Parcel ID 1970

MBL / Parcel ID

Parcel ID 881

MBL / Parcel ID

Parcel ID 147

MBL / Parcel ID

Parcel ID 160

Additional Applicant Info

Applicant Type*

Owner

Permit Info

Type of Application*

New Application

Permit For*

Application by Town of Bolton or Non-profit group

Occupancy Type*

Town of Bolton

Lots

4

Work Description*

Construct a Town Center Subsurface Sewage Disposal System serving 206 Bolton Center Road (Bentley Library), 220 Bolton Center Road (Police Building), 222 Bolton Center Road (Town Hall) and 266 Bolton Center Road (Rose Farm).

Development Title

Town of Bolton Town Center Subsurface Sewage Disposal System

Comments

Distance from Inland Wetlands and Watercourses:

Current Distance

80

Proposed Distance

90

Wetland / Watercourses Project Information

Size of Subject Property (acres)

123.96

Total area of wetlands to be affected by the activity (acres)

0.165

Open water body altered (acres)

0

Stream alternation (linear feet)

0

Buffer/upland area altered (acres)

0.834

Area of wetlands/watercourses restored, enhanced, or created (acres)

0

Described how the proposed activity affects wetlands, watercourses, and the regulated areas.

Temporary disturbance for installation of sanitary sewers, sanitary manholes, a community leaching system and upgradient leaching system curtain drain.

Described measures that will be taken to minimize the impact on wetlands, watercourses, and the regulated areas.

Low Permeability Seepage Barriers will be installed in intervals in the pipe trench to prevent, or signifcantly reduce, dewatering of the inland wetlands. Disturbed areas will be restored with appropriate wetland and upland seed mixes from New England Wetland Plants, Inc. Temporary biodegradable erosion control blankets will be used on all slopes exceeding 5H:1V to minimze erosion during revegetation.

Is there a Conservation or Preservation Restruction on the Property?

Yes

Is this an activity associated with a use for which you intend to apply to the Planning & Zoning Commission?

Yes

Please read and check the following statements. By checking these boxes, you agree to abide by the statutes and ordinances of the Town of Bolton and the State of Connecticut.

I understand that the Commission may require additional information at any time during the review of the application as described in Section 7.6 of the Inland Wetlands and Watercourses Regulations. *

☑

The Applicant must ensure that this application is complete and conforms with the Inland Wetlands and Watercourses Regulations (available at the Land Use Office for $10.00). Ten (10) copies of supporting documents must be provided. The Commission encourages the applicant to discuss any project with the Town Staff and/or the Commission before submitting an application. The Commission requests that applications be submitted at least one week before the meeting. *

☑

The Agency shall monitor all Bolton wetland and watercourses and have enforcement powers as described in Section 14 of the Inland Wetlands and Watercourses Regulations. The Commission Members and designed agent(s) may make regular inspections upon reasonable notice of all regulated activities to investigate possible violations of the Inland Wetlands and Watercourses Regulations. *

☑

If this application is filed with the Inland Wetlands Agent under Section 12.1 of the Inland Wetlands and Watercourses Regulations, the Applicant may appeal the Agent's decision according to the process descibed in section 12.2 of the Inland Wetlands and Watercourses Regulations. *

☑

Attorney Info

Name

Address

City

State

Zip

Phone

Email

Engineer Information

Company Name

Engineer Name

Address

City

State

Zip

Phone

Registration #

Insurance Expiration

–

AOR

Email

Experts Retained by Applicant

Name

Richard R. Snarski

Title / Expertise

Certified Professional Soil Scientist

Address

30 Gina Lane

City

Marlborough

State

Connecticut

Zip Code

06447

Phone No
860.918.1970

Email
richsnarski@gmail.com

Name
Matt Davison

Title / Expertise
PSS, PWS, CPESC, CESSWI, CT Forester

Address
10 Maple Street

City
Chester

State
Connecticut

Zip Code
06412

Phone No
860.803.0938

Email
matt@davisonenvironmental.com

Additional Project Info

Date of Receipt
–

Hearings Commencement Deadline
–

Hearings Completion Deadline
–

Decision Deadline
–

Total Acreage
123.96

Distance to Town Line
1950

Extended

☐

Hearing Not Required

☐

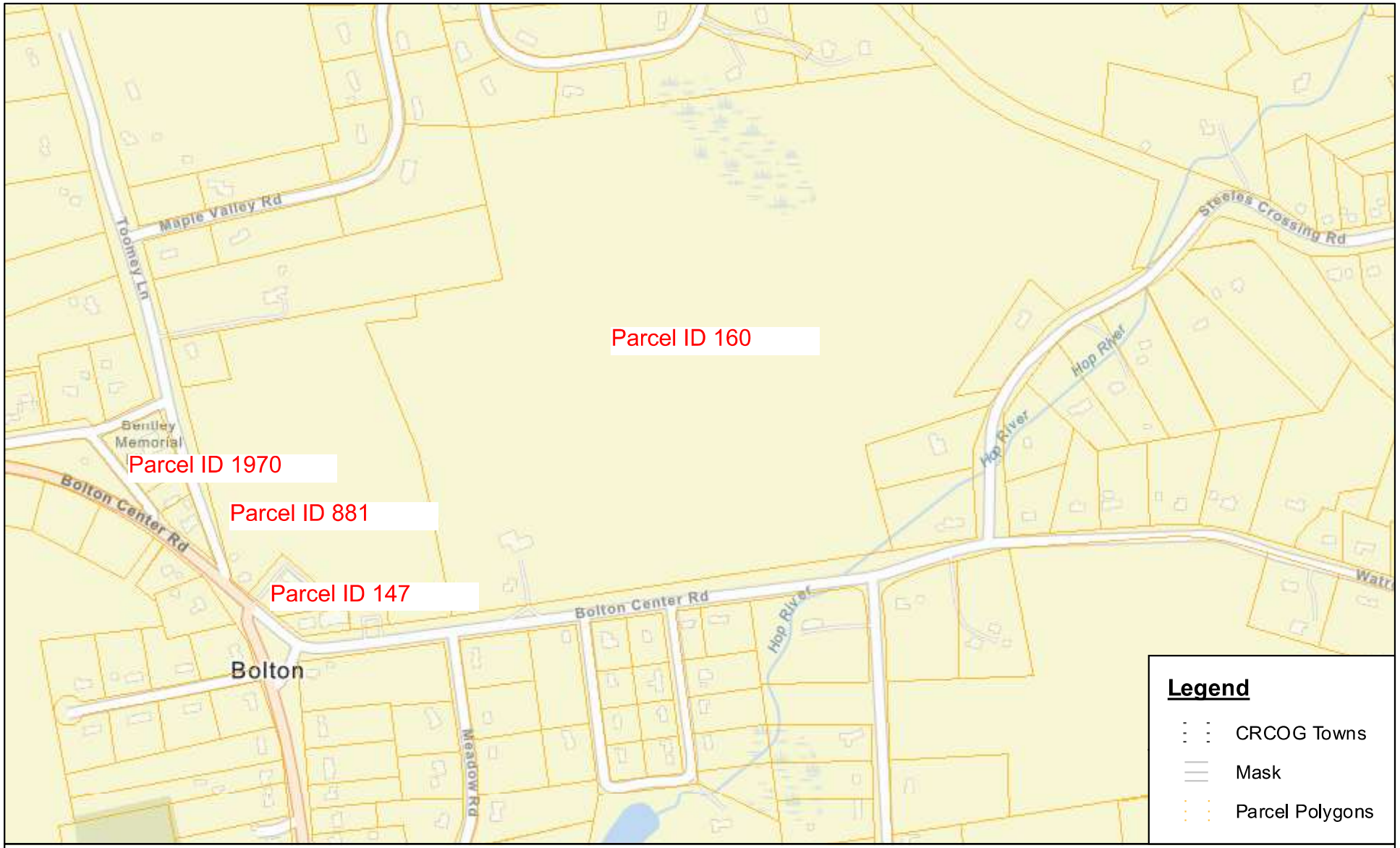
Attachments

List of Names and Addresses of Abutting Property Owners
Adjacent Properties.pdf
Uploaded by Danielle Palazzini on Oct 24, 2025 at 8:09 AM

Key Map of Property
Key Map of Properties.pdf
Uploaded by Wade Thomas on Oct 23, 2025 at 3:08 PM

Combined 09630053.pdf
Combined 09630053.pdf
Uploaded by Wade Thomas on Oct 23, 2025 at 2:58 PM

ArcGIS Web Map



N
W E
S

CRCOG CAPITOL REGION COUNCIL OF GOVERNMENTS
Working together for a better region.

Scale
1:9,028
Created: 10/23/2025

ABBREVIATIONS

Bit.	BITUMINOUS
B.O.S.	BOTTOM OF STONE
C#	ALIGNMENT CURVE NUMBER
Conc.	CONCRETE
CL&P	CONNECTICUT LIGHT AND POWER
CPEP	CORRUGATED POLYETHYLENE PIPE
EL.	ELEVATION
H.P.	HIGH POINT
INV.	INVERT
L#	ALIGNMENT LINE NUMBER
N/F	NOW OR FORMERLY
PERF.	PERFORATED
RCP	REINFORCED CONCRETE PIPE
STA.	STATION
SNET	SOUTHERN NEW ENGLAND TELEPHONE CO.
T.O.P.	TOP OF PIPE
T.O.W.	TOP OF WALL
TYP.	TYPICAL

LEGEND

Existing		PROPOSED
100	INDEX CONTOUR	100
98	INTERMEDIATE CONTOUR	98
×99.0	SPOT ELEVATION	99.00
	TREE LINE	
	SHRUB LINE/TALL GROUND COVER/LANDSCAPING	
	CONIFEROUS TREE	
	DECIDUOUS TREE	
	SHRUB	
	STUMP	
	BOULDER/LEDGE	
	STONE WALL	
	EDGE OF WATER	
	WETLAND FLAG	
	COINCIDENTAL STATE AND FEDERAL WETLAND LINE	
	PAVEMENT EDGE	
	BITUMINOUS CONCRETE CURBING	
	CONCRETE CURBING	
	CHAIN LINK FENCE	
	WIRE FENCE	
	WOOD FENCE	
	GUIDE RAIL	
	MAILBOX	
	SIGN	
	SITE LIGHT	
	CATCH BASIN	
	LAWN INLET	
	FLARED END	
	MANHOLE	
	HYDRANT	
	VALVE	
	UTILITY POLE	
	UTILITY POLE WITH GUY	
	UTILITY POLE WITH LIGHT	
AU	AERIAL UTILITIES	
C	COMMUNICATIONS LINE	
E	ELECTRIC LINE	
G	GAS LINE	
	SANITARY LINE	
	STORM PIPE	
W	WATER LINE	
X	UNKNOWN UNDERGROUND UTILITY	
	SURVEY MONUMENT	
P	PROPERTY LINE	
S	STREET LINE	
	SETBACK LINE	
	SURVEY CONTROL	
	SEDIMENT BARRIER	
	PAVEMENT SAWCUT	
	GRADE TO DRAIN	

PERMITTING
JULY 2025

PROGRESS PRINT
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☐ FOR INFORMATION ONLY
DATE ISSUED October 23, 2025
NATHAN L. JACOBSON & ASSOCIATES

TOWN OF
BOLTON
CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

BOARD OF SELECTMEN

RODNEY FOURNIER, FIRST SELECTMAN
PAMELA SAWYER, SELECTMAN
TIMOTHY SADLER, SELECTMAN
ROBERT MORRA, SELECTMAN
MATHER CLARKE, SELECTMAN
AMANDA GORDON, SELECTMAN
GWEN MARRION, SELECTMAN

DIRECTOR OF COMMUNITY DEVELOPMENT

PATRICE CARSON, A.I.C.P.

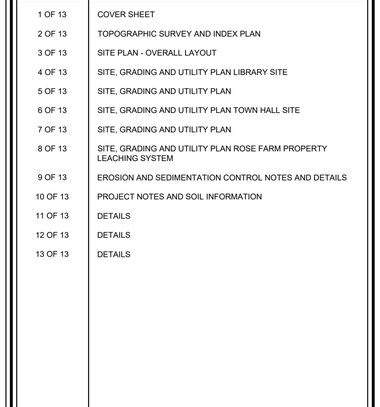
TOWN ADMINISTRATOR

JAMES RUPERT

ROAD FOREMAN

LANCE DIMOCK

SCHEDULE OF DRAWINGS



PROJECT LOCATION MAP
SCALE: 1" = 2000'
2000 1000 0 2000 4000
(SCALE IN FEET)

Nathan L. Jacobson & Associates, Inc.
86 Main Street P.O. Box 337
Chester, Connecticut 06412-0337
Tel: (860) 526-9591 Fax: (860) 526-5416
www.nlja.com
Consulting Civil and Environmental Engineers Since 1972

JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903

DATE: JULY 2025
PHASE: PERMITTING
PROJECT NAME: TOWN OF BOLTON, TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM
PROJECT NO. 09630053

NOTES:

1. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2).

PROGRESS PRINT

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DATE ISSUED October 23, 2025

NATHAN L. JACOBSON & ASSOCIATES

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GRAPHIC SCALE

80 60 40 20 0 80 160

SCALE: 1"=80'

TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

TOPOGRAPHIC SURVEY AND INDEX PLAN

PERMITTING

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Land Survey & Technical Services, Inc.
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Chester, Connecticut 06412-0337
Tel: (860) 526-4522 Fax: (860) 526-5416
www.nlja.com
An Affiliate of Nathan L. Jacobson & Associates, Inc.

NOT VALID WITHOUT ORIGINAL SEAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

JEFFREY A. SANBORN, L.S.
CT REGISTRATION No. 12883

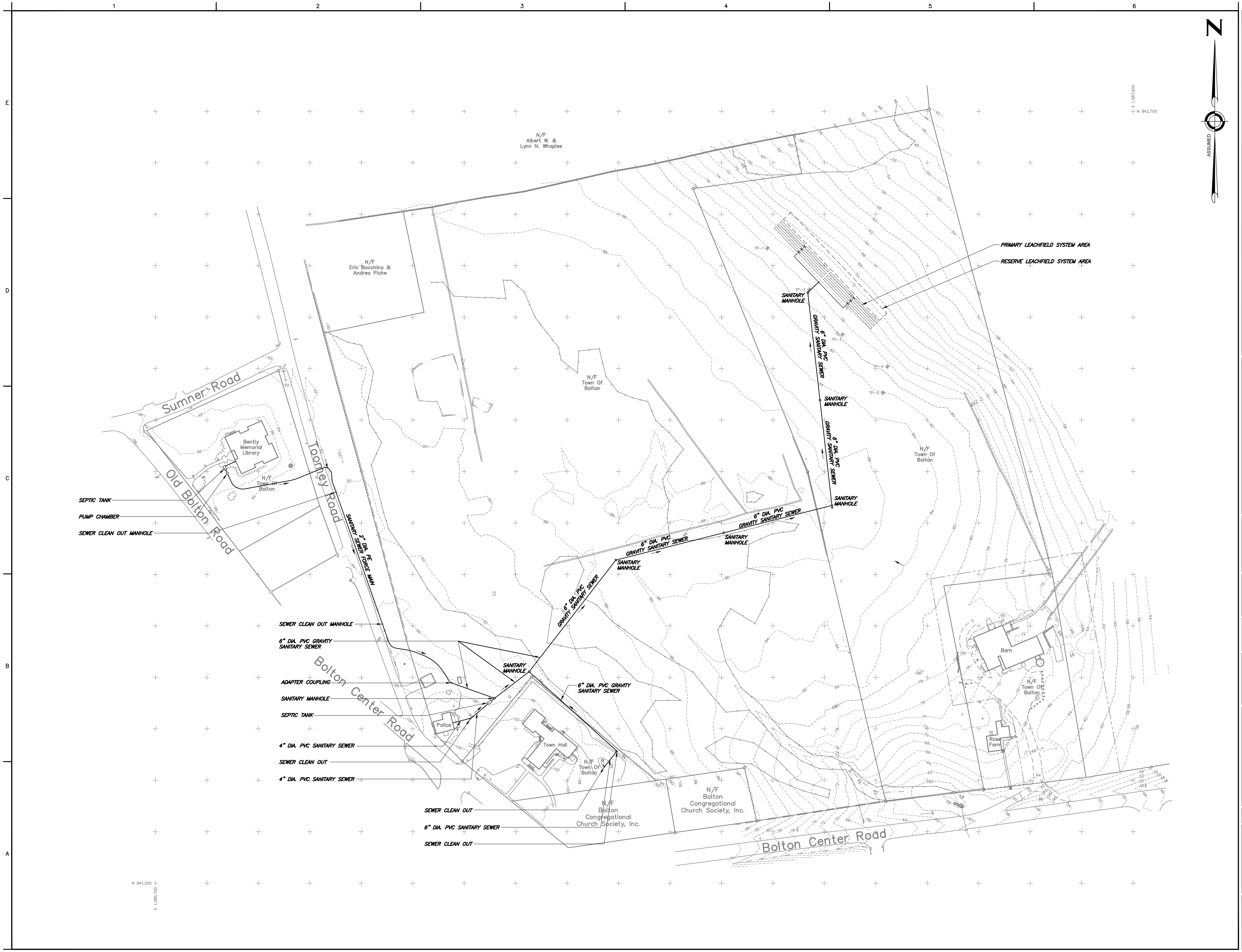
REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=80'
PROJECT No.:	09630053
CADD FILE:	09630053EX
FIELD BOOK:	-
DRAWN:	AJG/CEB
CHECKED:	-

SHEET No.:

2 OF 13



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GRAPHIC SCALE

80 60 40 20 0 80 160

SCALE: 1"=80'

TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

SITE PLAN - OVERALL LAYOUT

PERMITTING

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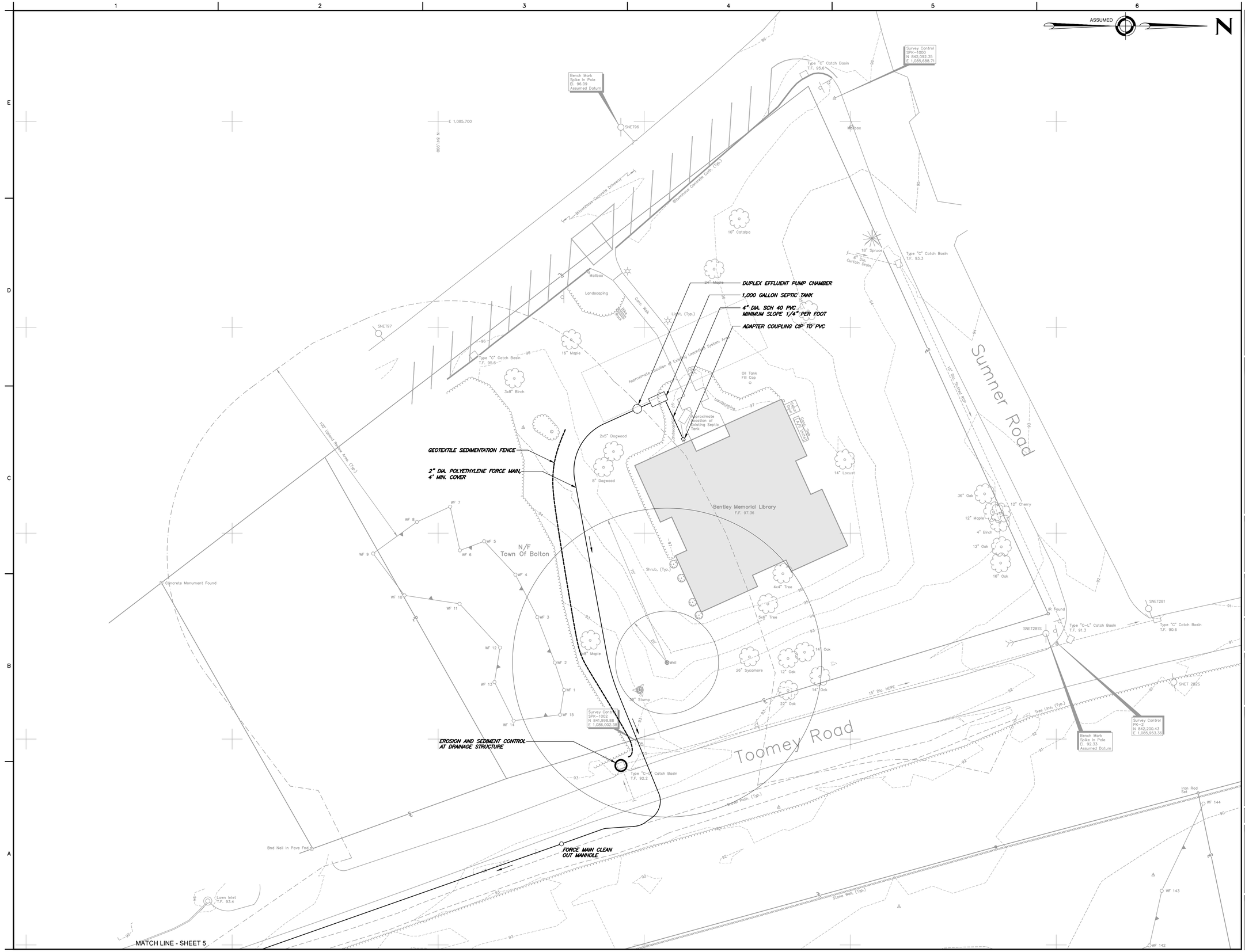
CT REGISTRATION No. 22903

REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=80'
PROJECT No.:	09630053
CADD FILE:	09630053SSDS
DESIGNED:	JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.: 3 OF 13



NOTES:

1. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2).
2. SEE SHEET 10 FOR PROJECTS NOTES.

PROGRESS PRINT

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DATE ISSUED October 23, 2025

NATHAN L. JACOBSON & ASSOCIATES

GRAPHIC SCALE

20 15 10 5 0 20 40

SCALE: 1"=20'

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TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

SITE, GRADING AND UTILITY PLAN LIBRARY SITE

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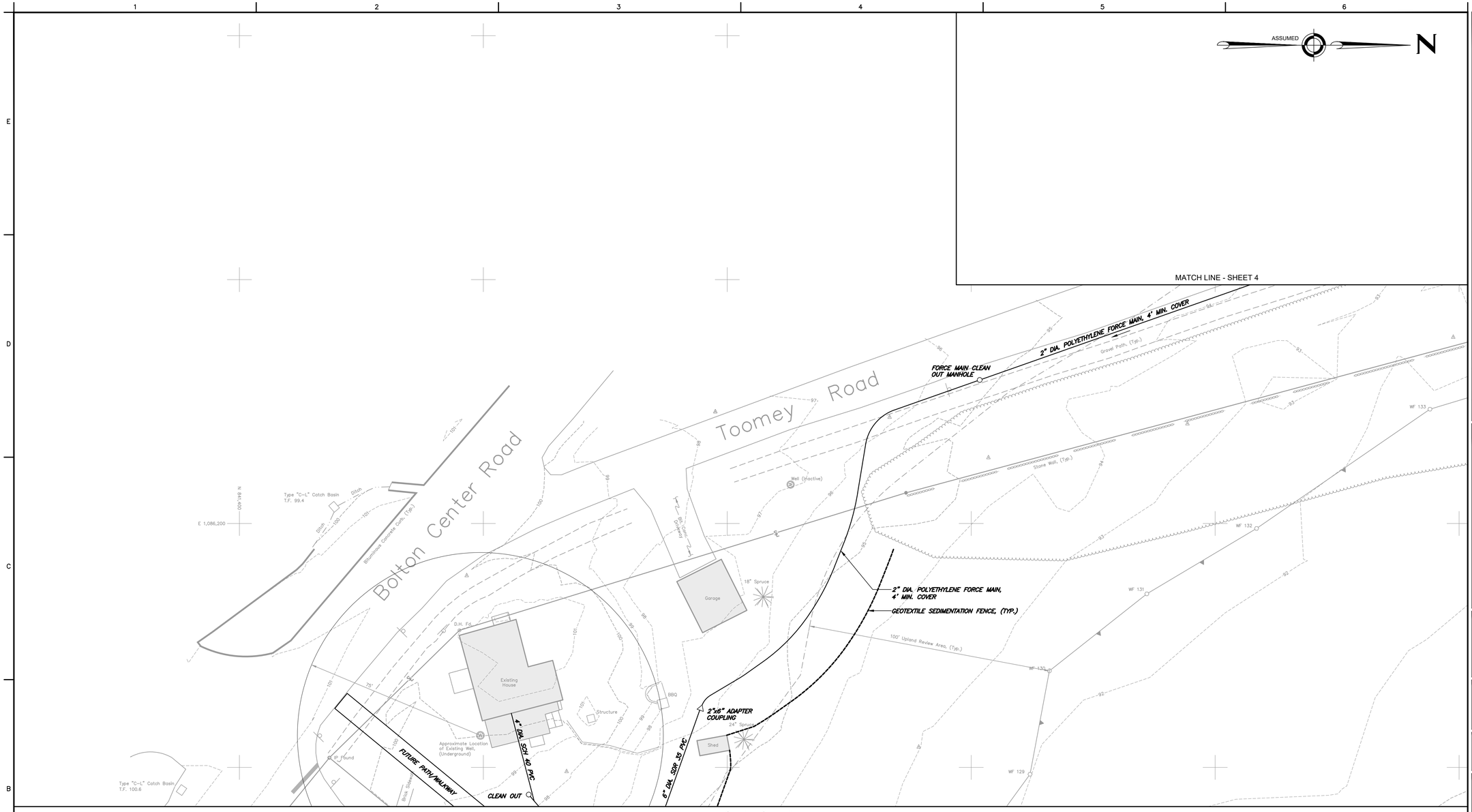
CT REGISTRATION No. 22903

REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=20'
PROJECT No.:	09630053
CADD FILE:	09630053SP
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.: 4 OF 13



NOTES:

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2. SEE SHEET 10 FOR PROJECT NOTES.

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DATE ISSUED October 23, 2025

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GRAPHIC SCALE

20 15 10 5 0 20 40

SCALE: 1"=20'

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TOWN OF
BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

SITE, GRADING AND UTILITY PLAN

PERMITTING

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CT REGISTRATION No. 22903

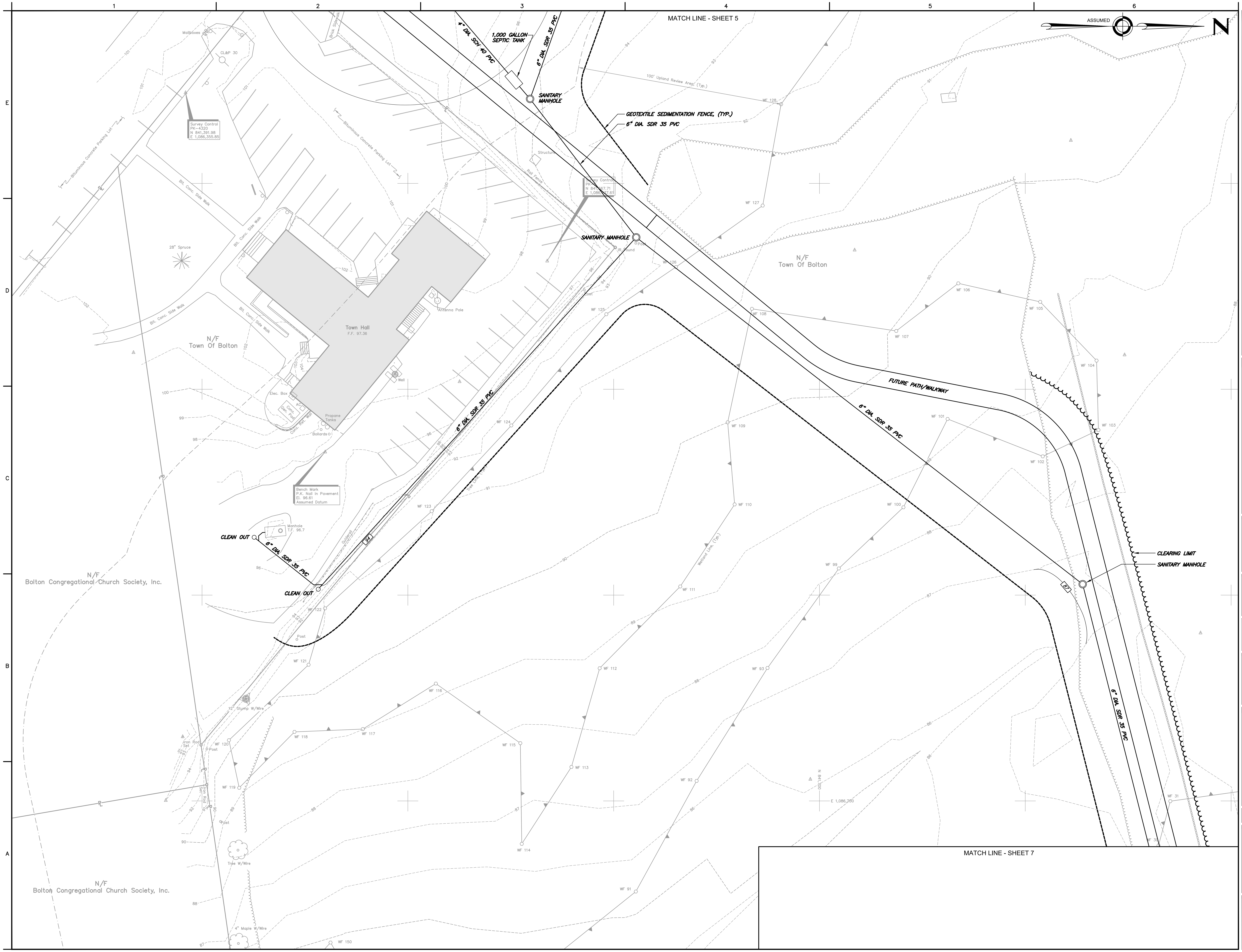
REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=20'
PROJECT No.:	09630053
CADD FILE:	09630053SP
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.:

5 OF 13



NOTES:

1. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2).
2. SEE SHEET 10 FOR PROJECT NOTES.

PROGRESS PRINT

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DATE ISSUED *October 23, 2025*

NATHAN L. JACOBSON & ASSOCIATES

GRAPHIC SCALE

20 15 10 5 0 20 40

SCALE: 1"=20'

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TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

SITE, GRADING AND UTILITY PLAN TOWN HALL SITE

PERMITTING

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REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=20'
PROJECT No.:	09630053
CADD FILE:	09630053SP
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.: 6 OF 13

NOTES:

1. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2).
2. SEE SHEET 10 FOR PROJECT NOTES.

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DATE ISSUED October 23, 2025

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GRAPHIC SCALE

20 15 10 5 0 20 40

SCALE: 1"=20'

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TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

SITE, GRADING AND UTILITY PLAN

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CT REGISTRATION No. 22903

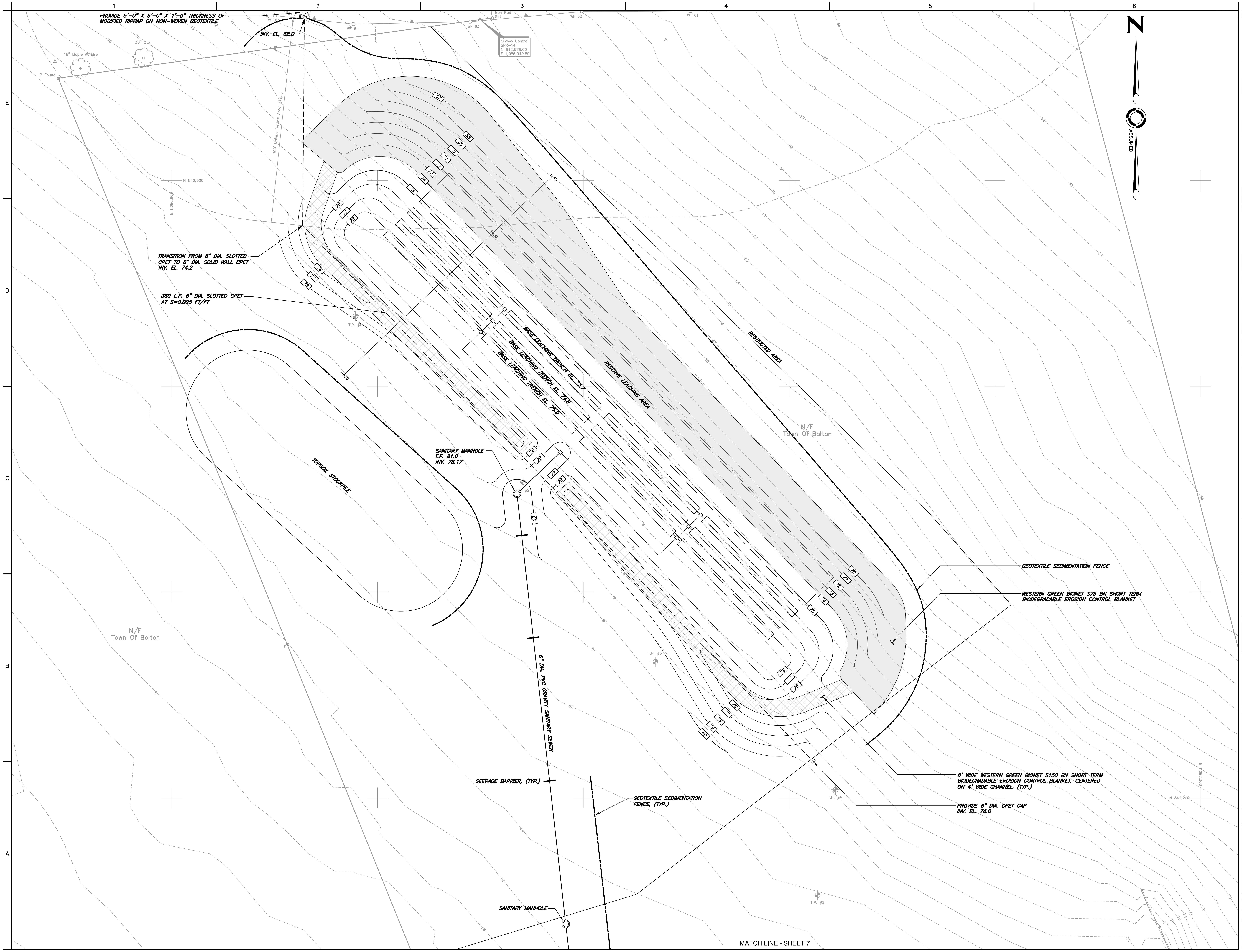
REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=20'
PROJECT No.:	09630053
CADD FILE:	09630053SP
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.:

7 OF 13



NOTES:

1. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2).

2. SEE SHEET 10 FOR PROJECT NOTES.

PROGRESS PRINT

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DATE ISSUED October 23, 2025

NATHAN L. JACOBSON & ASSOCIATES

GRAPHIC SCALE

20 15 10 5 0 20 40

SCALE: 1"=20'

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TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

SITE, GRADING AND UTILITY PLAN ROSE FARM PROPERTY LEACHING SYSTEM

PERMITTING

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CT REGISTRATION No. 22903

REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	1"=20'
PROJECT No.:	09630053
CADD FILE:	09630053SP
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.: 8 OF 13

PROJECT NARRATIVE:

THE SUBJECT PROJECT INCLUDES THE CONSTRUCTION OF A SUBSURFACE WASTEWATER DISPOSAL SYSTEM, SEPTIC TANKS AND APPURTENANT WORK.

ADDRESS OF PROPOSED USE:

BOLTON TOWN CENTER- BENTLEY MEMORIAL LIBRARY
TOOMEY ROAD RIGHT-OF-WAY, POLICE STATION, TOWN HALL,
WOODLANDS, ROSE FARM BARN AND ROSE FARM FIELD
BOLTON, CONNECTICUT 06043

ADDRESS OF OWNER'S AGENT AND PROPERTY OWNER:

JAMES RUPERT, ADMINISTRATIVE OFFICER
222 BOLTON CENTER ROAD
BOLTON, CONNECTICUT 06043
OWNER'S AGENT: JOSEPH M. DILLON, P.E.

CONSTRUCTION SCHEDULING:

IT IS PROPOSED TO PERFORM CONSTRUCTION IN THE SPRING 2026. IN GENERAL, THE SEQUENCE FOR CONSTRUCTION AND SITE STABILIZATION MAY BE AS FOLLOWS:

1. INSTALL CONSTRUCTION ENTRANCES AND SEDIMENT AND EROSION CONTROLS.
2. INSTALL SEPTIC TANKS.
3. STRIP TOPSOIL AND PLACE LEACHING FILL.
4. CONSTRUCT LEACHING TRENCHES AND PIPING.
5. BACKFILL, PLACE TOPSOIL.
6. REMOVE CONSTRUCTION ENTRANCE.
7. FINE GRADE, FERTILIZE, SEED AND MULCH ALL DISTURBED AREAS.
8. REMOVE REMAINING SEDIMENT AND EROSION CONTROL MEASURES ONCE VEGETATION HAS BECOME ESTABLISHED.

THE CONTRACTOR SELECTED TO CONSTRUCT THIS PROJECT WILL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES ON THIS SITE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE THE BOLTON INLAND WETLANDS ENFORCEMENT OFFICER WITH THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON. SHOULD ANY PROBLEMS OCCUR, THEN THE OWNER'S AGENT SHOULD BE CONTACTED.

CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE OWNER'S AGENT WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSONS TO BE CONTACTED IN THE EVENT OF AN EROSION AND/OR SEDIMENT CONTROL PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL SEDIMENTATION CONTROL FENCE AND/OR HAY BALES ON THE PROJECT SITE TO CONTROL UNFORESEEN EROSION AND/OR SEDIMENT PROBLEMS. IN THE EVENT OF A PROBLEM THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE OWNER'S AGENT.

EROSION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN FOR THE PROJECT.

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THOSE OUTLINED IN THE "2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. ALTERNATIVE MEASURES, METHODS, MEANS AND TECHNIQUES MAY BE ALLOWED WITH THE PRIOR APPROVAL OF THE OWNER'S AGENT.

GENERAL GUIDELINES:

1. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN AREAS DESIGNATED AS INLAND WETLANDS, WATERCOURSES OR FLOODPLAINS, DESIGNATED UPLAND REVIEW ZONES OR WITHIN STREAM CHANNEL ENCROACHMENT LINES WITHOUT ALL REQUIRED APPROVALS AND/OR PERMITS.
2. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
3. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
4. THE CONTRACTOR SHALL LIMIT THE DISTURBANCE OF LAND TO THOSE AREAS SHOWN ON THE DRAWINGS AND SHALL TAKE REASONABLE CARE TO PROTECT AND PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE WHERE FEASIBLE.
5. WHERE PRACTICABLE, THE CONTRACTOR SHALL PLAN HIS CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. THE CONTRACTOR SHALL TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS. THE INSTALLATION OF PERMANENT VEGETATIVE MEASURES SHALL BE ACCOMPLISHED AS SOON AS IS PRACTICABLE.
6. ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE.
7. ALL MATERIAL FROM CLEARING AND GRUBBING OPERATIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER.
8. WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED. NO WATER FROM DEWATERING OPERATIONS SHALL BE DISCHARGED INTO A SANITARY SEWER SYSTEM.
9. THE STORAGE, WASHING, FUELING AND MAINTENANCE OF EQUIPMENT AND VEHICLES SHALL TAKE PLACE IN DESIGNATED AREAS ONLY. IN THE EVENT OF A CONTAMINANT SPILL THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION OIL AND CHEMICAL SPILL RESPONSE DIVISION (860-424-3338) AND THE OWNER'S AGENT.

PRESERVE AND CONSERVE SOIL

TOPSOILING

MATERIALS

SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTITY OF TOPSOIL OF GOOD QUALITY ON THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.

ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION RATES OF LIME AND FERTILIZER.

INSTALLATION REQUIREMENTS

1. STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. THE DEPTH OF REMOVAL MAY VARY DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO BEGINNING STRIPPING OPERATIONS.
2. TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLOW IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.
3. SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
4. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
5. TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 30 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS.
6. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE DRAWINGS.
7. WHERE THE pH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST TO A pH OF 6.0 TO 6.5 OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.
8. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING OR TRACKING TO A DEPTH OF AT LEAST 4 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
9. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 4 INCHES, UNLESS OTHERWISE NOTED. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
10. TOPSOIL SHALL BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A DURABLE TURF. UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION.
11. IMMEDIATELY FOLLOWING TOPSOIL APPLICATION, PROTECT THE TOPSOIL FROM EROSION BY EITHER SODDING, SEEDING AND/OR MULCHING.

LAND GRADING

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
3. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
4. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS.
5. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
6. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.
7. TOPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR TOPSOILING.
8. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

DUST CONTROL

INSTALLATION REQUIREMENTS

WATER

1. THE EXPOSED SOIL SURFACE SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE QUANTITIES OF WATER TO CONTROL DUST.

STONE

1. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO WATERWAYS USE CHEMICALLY STABLE AGGREGATE.

MAINTENANCE

1. WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

VEGETATIVE SOIL COVER

TEMPORARY SEEDING

INSTALLATION REQUIREMENTS

SITE PREPARATION

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.
2. INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING

1. ANNUAL RYE GRASS 40 LBS/ACRE, 1 LB/1000 SF
2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED.
3. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.
4. SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED), THE RECOMMENDED SEEDING DATES ARE:

MARCH 15 THROUGH JUNE 15
AUGUST 15 THROUGH OCTOBER 15

PERMANENT SEEDING

INSTALLATION REQUIREMENTS

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

2. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
3. REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION UNLESS OTHERWISE SPECIFIED. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
4. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

SEEDING DATES

1. SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED, HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 15 CAN BE MADE. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

MARCH 15 THROUGH JUNE 15
SEPTEMBER 1 THROUGH OCTOBER 15

2. WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.

SEEDING

1. NEW ENGLAND WILDFLOWER SEED MIX AT 23 LBS. / ACRE.
NEW ENGLAND WETLANDS PLANTS, INC.
www.newp.com 413-548-8000
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.
3. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.
4. FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN USING THIS METHOD.
5. HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE ON CRITICAL AREAS. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN ONE INCH IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO ONE FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH DOES NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.
6. APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING MEASURE.
7. IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

MAINTENANCE

1. LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM OF EVERY FIVE YEARS USING A RATE OF TWO TONS PER ACRE (100 POUNDS PER 1,000 SQUARE FEET).
2. WHERE GRASSES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST BIENNIALLY, 300 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1,000 SQUARE FEET).
3. WHERE LEGUMES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST EVERY THREE YEARS 300 POUNDS OF 0-20-20 PER ACRE OR EQUIVALENT (7.5 POUNDS PER 1,000 SQUARE FEET).

NON-LIVING SOIL PROTECTION

MULCH FOR SEED

MATERIALS

1. SELECT MULCH MATERIALS BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS AND LABOR AND EQUIPMENT. OTHER MATERIALS MAY BE USED ONLY WITH THE PERMISSION OF THE APPROVING AUTHORITY.

INSTALLATION REQUIREMENTS

ORGANIC MULCHES

1. ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED BELOW:

MULCHES	RATES PER ACRE	PER 1,000 SQUARE FEET
STRAW	1 1/2 - 2 TONS	35-45 LBS

APPLICATION

1. MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND PLACE 35-45 POUNDS (1 BALE) OF STRAW OR HAY IN EACH SECTION TO ENSURE UNIFORM DISTRIBUTION.

ANCHORING

1. HAY OR STRAW MULCHES MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWING. HAY OR STRAW MULCH MAY BE ANCHORED BY TRACKING WITH CONSTRUCTION EQUIPMENT, BUT NOT BY USING NETTING.

MAINTENANCE

1. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH SHOULD BE APPLIED. NETS SHALL BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NET AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE, REPAIR AS NEEDED.

SEDIMENT IMPOUNDMENTS, BARRIERS, AND FILTERS

HAY BALE BARRIER

INSTALLATION REQUIREMENTS

SHEET FLOW APPLICATIONS

1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH THE ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
2. ALL BALES SHALL BE EITHER WIRE-BOUND OR STRING TIED. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.
3. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. BALES SHOULD BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED.
4. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.
5. THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) STRAW BETWEEN THEM TO PREVENT WATER FROM FLOWING BETWEEN THE BALES.

CHANNEL FLOW APPLICATIONS

1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
2. THE REMAINING STEPS FOR INSTALLING A BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION:
3. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

MAINTENANCE

1. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAIN EVENTS AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
2. ACCUMULATED SEDIMENT BEHIND THE BALES SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE ORIGINAL HEIGHT OF THE BALES.

GEOTEXTILE SILT FENCE

MATERIALS

1. GEOTEXTILE. GEOTEXTILE SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN)
TENSILE STRENGTH AT 20% (MAX) ELONGATION	-
EXTRA STRENGTH	50 LBS./LIN. IN. (MIN)
STANDARD STRENGTH	30 LBS./LIN. IN. (MIN)
FLOW RATE	12 GAL./SF/MIN. (MIN.)

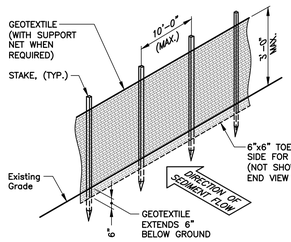
2. STAKES FOR GEOTEXTILE SILT FENCES SHALL BE 1" x 1" WOOD WITH A MINIMUM LENGTH OF 5 FEET.
3. WIRE FENCE REINFORCEMENT FOR GEOTEXTILE SILT FENCES USING STANDARD STRENGTH MATERIAL SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.

INSTALLATION REQUIREMENTS

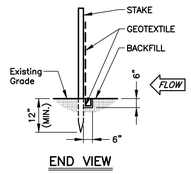
1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES. (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). THE SEDIMENTATION CONTROL FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED.
2. WHEN JOINTS ARE NECESSARY, GEOTEXTILE ROLL ENDS SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP AND SECURELY SEALED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM DEPTH OF 12 INCHES.
4. WHEN STANDARD STRENGTH GEOTEXTILE IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO A TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH GEOTEXTILE SHALL BE STAPLED, WIRED OR TIED TO THE WIRE FENCE, AND 8 INCHES OF THE GEOTEXTILE SHALL BE EXTENDED INTO THE TRENCH.
6. WHEN EXTRA STRENGTH GEOTEXTILE OR BURLAP AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE GEOTEXTILE.

MAINTENANCE

1. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE AS REQUIRED.
2. ACCUMULATED SEDIMENT BEHIND THE FENCE SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE BARRIER.



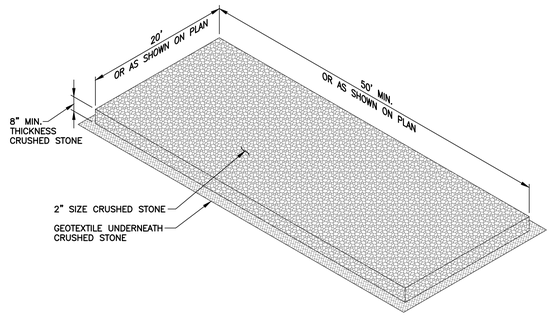
SEDIMENTATION FENCE
N.T.S.



END VIEW

NOTES:

1. AS AN ALTERNATE TO THE TRENCHING METHOD FOR BURYING THE BOTTOM 6" FLAP OF GEOTEXTILE, IT MAY BE LAID HORIZONTALLY ON THE GROUND AND BURIED BY RAMPING SOIL UP TO THE SEDIMENTATION FENCE AS SPECIFIED IN SECTION 2.19.03 OF THE STATE OF CT, DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, 2016, AS AMENDED TO DATE.



CONSTRUCTION ENTRANCE
N.T.S.

NOTES:

1. SEE SHEET 10 FOR PROJECT NOTES.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
☐ FOR PRELIMINARY REVIEW
☑ FOR FINAL REVIEW
☐ FOR INFORMATION ONLY
DATE ISSUED October 23, 2025
NATHAN L. JACOBSON & ASSOCIATES

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

TOWN OF
BOLTON, CONNECTICUT

TOWN CENTER
SUBSURFACE
SEWAGE DISPOSAL
SYSTEM

EROSION A

SUBSURFACE SEWAGE DISPOSAL SYSTEM NOTES

GENERAL:

1. A PERMIT SHALL BE OBTAINED FROM THE LOCAL DEPARTMENT OF HEALTH (EASTERN HIGHLANDS HEALTH DISTRICT - EHHD) PRIOR TO INSTALLATION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM. APPROVAL OF SYSTEM DESIGN BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION IS REQUIRED.
2. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONNECTICUT PUBLIC HEALTH CODE AND TECHNICAL STANDARDS, SECTION 19-13-B103 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES, AS AMENDED, LOCAL DEPARTMENT OF HEALTH REGULATIONS AND TOWN ORDINANCES, AS APPLICABLE.
3. THE MINIMUM SEPARATING DISTANCE FROM A WATER SUPPLY WELL TO ANY PORTION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE 75 FEET.
4. IF SOIL CONDITIONS ARE ENCOUNTERED AT DEPTHS SHALLOWER THAN SHOWN IN THE DEEP TEST HOLE LOGS (LEDGE, GROUNDWATER, MOTTLING), THE SANITARIAN AND DESIGN ENGINEER SHALL BE CONTACTED IMMEDIATELY AND CONSTRUCTION HALTED UNTIL DIRECTED FURTHER.
5. NO DEVIATIONS FROM THE APPROVED DESIGN PLAN SHALL BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE LOCAL DEPARTMENT OF HEALTH AND THE DESIGN ENGINEER.
6. NO PORTION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE BACKFILLED UNTIL MEASUREMENTS FOR RECORD DRAWINGS HAVE BEEN OBTAINED AND THE INSTALLATION HAS BEEN INSPECTED AND APPROVED BY THE TOWN SANITARIAN.

   THE LOCAL DEPARTMENT OF HEALTH (EASTERN HIGHLANDS HEALTH DISTRICT - EHHD) AND DESIGN ENGINEER SHALL BE NOTIFIED PRIOR TO THE FOLLOWING STAGES OF CONSTRUCTION (AS APPLICABLE) FOR INSPECTION PURPOSES:

   A. STRIPPING OF TOPSOIL AND SCARIFYING BOTTOM OF EXCAVATED AREA
   B. PLACEMENT OF LEACHING FILL MATERIAL
   C. PLACEMENT OF SEPTIC TANKS
   D. PLACEMENT OF SEWER PIPING
   E. INSTALLATION OF THE LEACHING SYSTEM
7. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND SURVEYOR AND THE SURVEYOR SHALL VERIFY THE DESIGN BENCHMARK PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL RETAIN A LICENSED LAND SURVEYOR TO PREPARE RECORD DRAWINGS OF THE COMPLETED SUBSURFACE SEWAGE DISPOSAL SYSTEM, SHOWING INSTALLED LOCATIONS AND ELEVATIONS OF ALL SYSTEM COMPONENTS. RECORD DRAWINGS SHALL BE SUBMITTED TO THE LOCAL DEPARTMENT OF HEALTH AND DESIGN ENGINEER FOR REVIEW AND APPROVAL.

MATERIALS:

1. SEPTIC TANK PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC, ASTM 1785, WITH SOLVENT WELDED JOINTS. PIPE SIZE AS INDICATED ON THE DRAWINGS.
2. SOLID WALL DISTRIBUTION PIPE AND FITTINGS SHALL BE FOUR (4) INCH DIAMETER SDR 35 PVC, ASTM 3034, WITH INTEGRAL RUBBER COMPRESSION GASKET JOINTS, ASTM D3212, OR APPROVED EQUAL.
3. PIPE ADAPTERS - PVC WITH GASKETED OR GLUED JOINTS FOR CONNECTING SCHEDULE 40 PVC TO SDR 35 PVC.
4. MAGNETIC TRACER TAPE – POLYETHYLENE WITH METALLIC FOIL CORE, 2 INCHES WIDE, LABELED "SEWER – BURIED PIPELINE BELOW".
5. THE SEPTIC TANKS SHALL CONFORM TO REQUIREMENTS OF THE PUBLIC HEALTH CODE AND ASTM C1277. TANKS SHALL CONTAIN TWO COMPARTMENTS, WITH 2/3 OF THE TOTAL CAPACITY PROVIDED IN THE FIRST COMPARTMENT. INLET AND OUTLET PIPING SHALL BE SEALED WITH A POLYETHYLENE GASKET CAST INTO THE PRECAST CONCRETE TANK WALL AND APPLICATION OF WATERPROOF NON-SHRINK MORTAR TO SEAL THE EXTERIOR PIPE ANNULUS. TANK SHALL BE H-20 LOAD CAPACITY. PROVIDE PRECAST CONCRETE TANK RISERS FOR ACCESS MANHOLES AND CAST IRON FRAMES AND COVERS AS INDICATED ON THE DRAWINGS.
6. SEPTIC TANK OUTLET FILTERS SHALL BE ORENCO MODEL FT1254-36.
7. DISTRIBUTION BOXES, RISERS AND LIDS - POLYETHYLENE CONSTRUCTION AS MANUFACTURED BY TUF-TITE, OR APPROVED EQUAL. FLOW CONTROL FOR DISTRIBUTION BOX OUTLET PIPES TO BE PROVIDED BY POLYETHYLENE SPEED LEVELERS TO FIT SDR-35 PVC PIPE, AS MANUFACTURED BY TUF-TITE, OR APPROVED EQUAL. SIZE AND CONFIGURATION AS SHOWN ON THE DRAWINGS.
8. GEOTEXTILE – MIRAFI 140N OR APPROVED EQUAL.
9. SAND BEDDING FOR PIPES SHALL BE THOROUGHLY COMPACTED BELOW AND AROUND THE PIPE AND CONFORM TO THE FOLLOWING SPECIFICATIONS, UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER.

SQUARE MESH SIEVES	PERCENT PASSING BY WEIGHT
5/8"	100%
NO. 50	30% MAX.
NO. 200	5% MAX

10. WASHED CRUSHED STONE FOR LEACHING TRENCHES - STONE SHALL BE WASHED, CLEAN STONE OF HARD AND DURABLE NATURAL MATERIAL AND MEET THE FOLLOWING GRADATION LIMITS, UNLESS OTHERWISE APPROVED BY THE SANITARIAN AND DESIGN ENGINEER.

SQUARE MESH SIEVES	PERCENT PASSING BY WEIGHT
2"	100%
1-1/2"	90-100%
1"	20-55%
½"	0-10%
3/8"	0-5%
NO. 40	0-3%
NO. 200	0-1%

11. LEACHING FILL MATERIAL SHALL BE SAND OR SAND AND GRAVEL MIXTURES FREE OF STUMPS, TRASH, LUMPS OF CLAY, SOFT OR FLAKY MATERIAL OR ORGANIC MATTER, AND CONFORM TO THE FOLLOWING GRADATION LIMITS, UNLESS OTHERWISE APPROVED BY THE SANITARIAN AND DESIGN ENGINEER:

SQUARE MESH SIEVES	PERCENT PASSING BY WEIGHT
1-1/2"	100%
NO. 10	70-95%
NO. 40	15-60%
NO. 100	0-10%
NO. 200	0-3%

    FOLLOWING PLACEMENT AND COMPACTION, THE LEACHING FILL MATERIAL SHALL HAVE A PERCOLATION RATE BETWEEN 1 AND 10 MINUTES PER INCH.
12. COMMON EARTH FILL - SUBSOIL, REUSED OR IMPORTED, FREE OF FROZEN CLUMPS OF SOIL, ANY MATERIALS CONTAINING VEGETABLE OR ORGANIC MATTER, SUCH AS MUCK, PEAT, ORGANIC SILT OR CLAY, TOPSOIL, SOD, TRASH, BRUSH, STUMPS, OR SOILS CONTAINING HIGH PLASTICITY CLAYS ARE NOT ACCEPTABLE. MAXIMUM STONE SIZE 3 ½ INCHES.
13. GRANULAR FILL – Connecticut Department of Transportation FORM 816 Standard Specifications, Section M.02, Article M.02.01, Article M.02.06 Grading A Designation.
14. PROCESSED AGGREGATE – Connecticut Department of Transportation REFERENCE FILE NO. 163-j, MEDIUM DESIGNATION, MARCH 4, 1963, REV. JUNE 26, 2001.
15. CRUSHED STONE – CONFORM TO CTDOT FORM 818, SUBARTICLE M.01.01, SIZE AS INDICATED ON THE DRAWINGS.
16. TOPSOIL - CONFORM TO CTDOT FORM 818, SUBARTICLE M.13.01; MAXIMUM STONE SIZE 1".
17. SEED MIXTURE TO BE AS FOLLOWS, OR APPROVED EQUAL:

    A. BLUEGRASS 10%
    B. CREEPING RED FESCUE 50%
    C. PERENNIAL RYE 30%
    D. ANNUAL RYE 10%

    APPLICATION RATE FOR NEW LAWN ESTABLISHMENT PER MANUFACTURER SPECIFICATION
    MINIMUM GERMINATION 85%

CONSTRUCTION:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES, AND FOR CONSTRUCTION SITE SAFETY PRECAUTIONS. CONDUCT CONSTRUCTION OPERATIONS IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY LAWS, RULES, REGULATIONS AND CODES.
2. ALL EXCAVATIONS ARE TO BE PROPERLY SHORED AND BARRICADED TO PROTECT WORKERS, VEHICLES AND PEDESTRIANS DURING CONSTRUCTION.
3. SEPTIC TANKS MUST BE SEALED WATERTIGHT. FOLLOWING INSTALLATION, CONDUCT LEAK TESTING PER ASTM C1277 VACUUM TEST OR WATER TEST BY PLUGGING INLET AND OUTLET PIPING AND FILL TANKS WITH WATER TO TOP OF TOP SLAB ELEVATION AND LET SET FOR 24 HOURS. LEAK TEST WILL PASS WITH NO WATER LEVEL DROP IN 1 HOUR FOLLOWING THE 24 HOUR PERIOD. THE TANKS SHALL BE INSPECTED BY THE SANITARIAN PRIOR TO BACKFILLING AND NO INFILTRATION OR EXFILTRATION SHALL BE EVIDENT. ALL VISUAL LEAKAGE AND INFILTRATION IN TANKS AND CHAMBERS SHALL BE LOCATED AND ELIMINATED. REPAIRS SHALL BE MADE IN A FIRST CLASS WORKMANLIKE MANNER. SET ALL TOP OF MANHOLE FRAME ELEVATIONS TO DRAIN SURFACE WATER AWAY FROM THE COVERS. DO NOT SET TANKS IN GROUNDWATER. PROVIDE DEWATERING AS MAY BE REQUIRED. BACKFILL TANKS WITH COMPACTED GRANULAR FILL.
4. DURING CONSTRUCTION THE LEACHFIELD SYSTEM AREA SHALL BE PROTECTED FROM SURFACE WATER RUNOFF AT ALL TIMES BY THE USE OF APPROPRIATE BERMING AND/OR SWALES. ANY SILTATION OR SEDIMENTATION OF THE PREPARED SUBGRADE OR THE LEACHING SYSTEM DUE TO SURFACE WATER RUNOFF SHALL REQUIRE REMOVAL AND REINSTALLATION OF ALL AFFECTED PORTIONS OF THE SYSTEM AND IMPACTED SOIL AREAS AT THE SOLE EXPENSE OF THE CONTRACTOR.
5. NO UNAUTHORIZED VEHICLES SHALL BE PERMITTED ON, OR WITHIN FIFTY (50) FEET DOWNHILL OF THE PRIMARY AND RESERVE LEACHFIELD SYSTEM AREAS.
6. LEACHING FILL MATERIAL SHALL BE SAMPLED AT THE SOURCE AND TESTED BY AN APPROVED COMMERCIAL TESTING LABORATORY FOR CONFORMITY TO THE GRADATION REQUIREMENTS SET FORTH HEREIN. AFTER ACCEPTANCE OF THE PROPOSED LEACHING FILL MATERIAL BASED ON SOURCE TESTING, THE FILL MATERIAL MAY BE DELIVERED TO THE PROJECT SITE BUT IS SUBJECT TO FURTHER TESTING AS DIRECTED BY THE AUTHORIZED INSPECTORS TO CONFIRM THE RESULTS OBTAINED FROM SAMPLING AND TESTING AT THE SOURCE. ANY LEACHING FILL MATERIAL FOUND TO BE NONCONFORMING WITH THE REQUIREMENTS SET FORTH HEREIN SHALL NOT BE USED FOR LEACHING FILL AND SHALL BE REMOVED FROM THE PROJECT SITE, UNLESS OTHERWISE PERMITTED BY THE AUTHORIZED INSPECTORS TO BE USED FOR OTHER COMMON EARTH FILLING OR COVER OPERATIONS.
7. REMOVE AND STOCKPILE TOPSOIL AND SUBSOIL FROM LEACHING SYSTEM AREA TO DIMENSIONS AND DEPTHS INDICATED ON THE DRAWINGS. USE ONLY TRACKED EXCAVATOR WORKING FROM THE LOWER TO THE UPPER EDGE OF THE LEACHFIELD SYSTEM AREA, LEAVING A SCARIFIED UNCOMPACTED SUBGRADE SURFACE. PLACE ALL LEACHING FILL FROM THE UPHILL EDGE OF THE LEACHFIELD SYSTEM AREA AND COMPACT IN 12 INCH LIFTS TO 85% OF MODIFIED PROCTOR DENSITY. PLACE LEACHING FILL TO TOP OF TRENCH ELEVATION.
8. REMOVE ANY UNSUITABLE MATERIALS AS ORDERED BY THE AUTHORIZED INSPECTOR OR DESIGN ENGINEER AND REPLACE WITH LEACHING FILL MATERIAL. COMPACT IN 12" LIFTS TO 85% OF MODIFIED PROCTOR DENSITY.
9. FOLLOWING TRENCHING FOR LEACHING TRENCH INSTALLATION, LIGHTLY HAND RAKE ANY SMEARED SOIL SURFACES ON THE BOTTOM OR SIDE WALLS OF THE TRENCH PRIOR TO PLACEMENT OF WASHED CRUSHED STONE.
10. AFTER LEACHING TRENCH WASHED CRUSHED STONE, PIPING AND DISTRIBUTION BOXES FOR THE LEACHING SYSTEM HAVE BEEN INSTALLED, INSPECTED AND RECORD DRAWING SURVEY MEASUREMENTS OBTAINED, PLACE APPROVED NON-WOVEN GEOTEXTILE FABRIC OVER ALL CRUSHED STONE SURFACES. BACKFILL WITH GRANULAR FILL TO SUBGRADE IN PAVED AREAS. BACKFILL WITH COMMON EARTH TO FOUR (4) INCHES BELOW FINISHED GRADE IN NON-PAVED AREAS. APPLY 4 INCHES OF TOPSOIL TO ALL NON-PAVED AREAS.
11. IN DRIVEWAY AREAS BACKFILL WITH GRANULAR FILL TO 8 INCHES BELOW FINAL GRADE. PLACE THE GRANULAR FILL IN 12 INCH MAXIMUM LIFTS COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY. PROVIDE AN 8 INCH SURFACE COURSE OF PROCESSED AGGREGATE AND COMPACT TO 95% OF MODIFIED PROCTOR DENSITY.
12. IN ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION, PLACE 4 INCHES OF TOPSOIL, FINE GRADE, REMOVE ALL STONES OVER 1" DIAMETER, FERTILIZE, LIME, SEED AND MULCH TO ESTABLISH A FULL PERENNIAL GRASS COVER. USE EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.
13. REMOVE ALL STUMPS, STONES, EXCESS EXCAVATED MATERIAL AND CONSTRUCTION DEBRIS FROM THE SITE AND DISPOSE OFF SITE IN A LEGAL MANNER.

EROSION AND SEDIMENT CONTROL:

1. PRIOR TO CONSTRUCTION, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS SHALL BE PROVIDED TO THE SANITARIAN AND TOWN ZONING OFFICIAL AND WETLANDS ENFORCEMENT OFFICER.
2. ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL, DISTURBANCE OR DEPOSITION OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO MINIMIZE EROSION OF SOIL AND CONTAIN SEDIMENT DEPOSITION WITHIN THE AREA UNDER CONSTRUCTION (REFER TO 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL).
3. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
4. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.
5. PRIOR TO THE START OF CONSTRUCTION, TEMPORARY BALED HAY EROSION CHECKS, SEDIMENTATION FENCES, CONSTRUCTION ENTRANCE AND OTHER APPROVED SEDIMENT CONTROL MEASURES SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND AT OTHER LOCATIONS WHERE DEEMED NECESSARY BY THE AUTHORIZED INSPECTOR AND DESIGN ENGINEER.
6. WHEN LAND IS EXPOSED DURING CONSTRUCTION, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM, INSTALLING PERMANENT VEGETATION, PAVING, STRUCTURES, ETC. AT THE EARLIEST POSSIBLE OPPORTUNITY. AREAS DISTURBED FOR GREATER THAN 1 MONTH SHALL BE PROVIDED WITH TEMPORARY SEEDING AND MULCH.
7. ALL EROSION AND SEDIMENT CONTROLS SHALL REMAIN PLACE AND BE MAINTAINED REGULARLY IN PROPERLY FUNCTIONING CONDITION, UNTIL ALL AREAS EXPOSED DURING SITE CONSTRUCTION HAVE BEEN FULLY STABILIZED WITH VEGETATION.
8. AFTER THE SITE IS STABILIZED WITH A FULL GROWTH OF VEGETATION, REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES, SEED AND MULCH AREAS DISTURBED DURING SEDIMENT CONTROL MEASURE REMOVAL AND DISPOSE MATERIALS OFF SITE IN A LEGAL MANNER.

SUBSURFACE SEWAGE DISPOSAL SYSTEM - BASIS OF DESIGN

DESIGN FLOW NOT YET DETERMINED BUT WILL BE SITE LIMITED BASED ON WASTEWATER STRENGTH. MAXIMIZE SITE HYDRAULIC CAPACITY

TOTAL DESIGN FLOW = GPD

SEPTIC TANKS
REPLACE EXISTING SEPTIC TANK LOCATED EAST OF BUILDING NO. 73 WITH 2,500 GALLON TWO COMPARTMENT PRECAST CONCRETE H-20 LOAD CAPACITY SEPTIC TANK WITH EFFLUENT FILTER

REPLACE EXISTING SEPTIC TANK LOCATED AT DSN-002 WITH 2,500 GALLON TWO COMPARTMENT PRECAST CONCRETE H-20 LOAD CAPACITY SEPTIC TANK WITH EFFLUENT FILTER

TOTAL SEPTIC TANK CAPACITY = 2,500 + 2,500 = 5,000 GALLONS

LEACHFIELD SYSTEM SIZING

EFFECTIVE LEACHING AREA (ELA) REQUIRED USING PERCOLATION RATE 10.1-20.0 MINUTES/INCH

USE 48 INCH WIDE X 12 INCH DEEP LEACHING TRENCHES. ELA = 3 SQ FT/LF, CC SPACING 8 FT
USE 12 LEACHING TRENCHES 64 FT LONG EACH WITH DISTRIBUTION BOX IN THE CENTER OF EACH TRENCH
TOTAL ELA PROVIDED = 768 FT X 3 SQ FT/FT = 2,304 SQ FT

PROVIDE 100% RESERVE AREA

RESERVE CAPACITY PROVIDED IN PRIMARY LEACHING SYSTEM

FOR NON-PROBLEMATIC WASTEWATER, 2,400 GPD
FOR PROBLEMATIC WASTEWATER, 1,610 GPD

CONFIGURATION – SET BOTTOM OF NEW LEACHING TRENCHES AT 6 INCHES BELOW EXISTING GRADE IN LEACHING FILL MATERIAL

PROVIDE FLOW SPLITTER DISTRIBUTION BOX TO LOAD THE EXISTING LEACHING TRENCHES AND NEW LEACHING TRENCHES EQUALLY AND PROVIDE HIGH LEVEL OVERFLOW FROM LOWEST EXISTING LEACHING TRENCH TO THE 3 NEW LEACHING TRENCHES. PROVIDE DEPTH OF PONDING MONITORING PIPES IN ALL LEACHING TRENCHES TO ALLOW SYSTEM MONITORING AND FLOW ADJUSTMENT AT THE FLOW SPLITER DISTRIBUTION BOX. USE HIGH LEVEL OVERFLOW DISTRIBUTION IN THE 3 NEW LEACHING TRENCHES.

MINIMUM LEACHING SYSTEM SPREAD MLSS
MLSS = HF X FF X PF
    HF = HYDRAULIC FACTOR
    PF = PERCOLATION FACTOR
    FF = FLOW FACTOR
SOIL TEST PITS NO. 106 AND 107 LOCATED IN LEACHFIELD SYSTEM EXPANSION AREA
DEPTH TO RESTRICTIVE LAYER
    TEST PIT NO. 106 FIRM TO COMPACT SOIL 28 INCHES, FAINT MOTTLING 30 INCHES
    TEST PIT NO. 108 FIRM TO COMPACT SOIL 24 INCHES, FAINT MOTTLING 28 INCHES
    USE RESTRICTIVE LAYER DEPTH OF 24 INCHES
HYDRAULIC GRADIENT 10.8%
HF = 26
FF 2,400 GPD/300 GPD = 8
PF USE PERCOLATION RATE OF 10.1-20.0 MINUTES/INCH PERCOLATION TEST, PF = 1.25
MLSS = 26 X 8 X 1.25 = 260 FT
SYSTEM SPREAD PROVIDED = 270 FT

TEST PIT DATA

OWNER: TOWN OF BOLTON

LOCATION: ROSE FARM

MUNICIPALITY: BOLTON, CONNECTICUT

PROJECT NO.: 963-0014

TEST PITS 1-5 CONDUCTED ON APRIL 10, 2008 AND LOGGED BY JOSEPH M. DILLON, P.E.

TEST PIT 1

0-10" TOPSOIL
10-21" VERY FIRM BROWN FINE SAND AND SILT, TRACE FINE GRAVEL
21-90" DENSE BROWN FINE SAND, SOME SILT, LITTLE FINE GRAVEL (TILL)

GWT 66"
MOTTLING 18"
BEDROCK NONE
BOULDERS 40"

TEST PIT 2

0-6" TOPSOIL
6-16" COMPACT BROWN FINE SAND, SOME SILT, LITTLE FINE GRAVEL
16-96" DENSELY COMPACTED BROWN FINE-MEDIUM SAND, SOME SILT, SOME FINE-MEDIUM GRAVEL

GWT 64"
MOTTLING 12"
BEDROCK NONE
CORE SAMPLE 16"
BAG SAMPLE 18"

TEST PIT 3

0-8" TOPSOIL
8-27" COMPACT BROWN FINE SAND, SOME SILT, LITTLE FINE-MEDIUM GRAVEL
27-100" DENSELY COMPACTED BROWN FINE SAND, SOME SILT, LITTLE-SOME FINE-MEDIUM GRAVEL

GWT 54"
MOTTLING 18"
BEDROCK NONE
NESTED BOULDERS 0-36"

TEST PIT 4

0-9" TOPSOIL
9-16" COMPACT BROWN FINE SAND AND SILT, LITTLE FINE-MEDIUM GRAVEL
16-81" SANDY TILL

GWT 58"
MOTTLING 16"
BEDROCK 88"

TEST PIT 5

0-7" TOPSOIL
7-18" COMPACT BROWN FINE SAND WITH SILT, LITTLE FINE-MEDIUM GRAVEL
18- " DENSLY COMPACT TILL

GWT 54"
MOTTLING
BEDROCK

SOIL PERCOLATION TEST DATA RECORD

OWNER: TOWN OF BOLTON

SITE ADDRESS: ROSE FARM, BOLTON CENTER ROAD, BOLTON CT

MUNICIPALITY: TOWN OF BOLTON

DATE: APRIL 11, 2008

WEATHER: DEG. F

PERCOLATION TEST NO.:

DEPTH BELOW GROUND SURFACE: "

TIME OF PRESOAK: AM; HOLE DRY BY PM

Time	Elapsed Time (min.)	Reference to water (in.)	Water Level Drop in Time Interval (in.)	Average Water Level Drop (min./in.)
12:15 PM		6.00		
	05:00		3.50	01:26
12:20 PM		9.50		
	05:00		2.25	02:13
12:25 PM		11.75		
	05:00		1.25	04:00
12:30 PM		13.00		
	05:00		1.00	05:00
12:35 PM		14.00		
	05:00		0.88	05:43
12:40 PM		14.88		
	05:00		0.63	08:00
12:45 PM		15.50		
	05:00		0.50	10:00
12:50 PM		16.00		
	05:00		0.75	06:40
12:55 PM		16.75		
	05:00		0.38	13:20
1:00 PM		17.13		
	05:00		0.50	10:00
1:05 PM		17.63		
	05:00		0.38	13:20
1:10 PM		18.00		
	05:00		0.50	10:00
1:15 PM		18.50		

TEST PERFORMED BY: JOSEPH M. DILLON, P.E.

COMMENTS:

Nathan L. Jacobson & Associates, Inc.
Chester Connecticut (203) 526-9591

NOTES:

1.

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DATE ISSUED October 23, 2025
NATHAN L. JACOBSON & ASSOCIATES

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TOWN OF
BOLTON, CONNECTICUT

TOWN CENTER
SUBSURFACE
SEWAGE DISPOSAL
SYSTEM

PROJECT NOTES AND SOIL INFORMATION

PERMITTING

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86 Main Street P.O. Box 337
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www.nlja.com
Jacobson Consulting Civil and Environmental Engineers Since 1972

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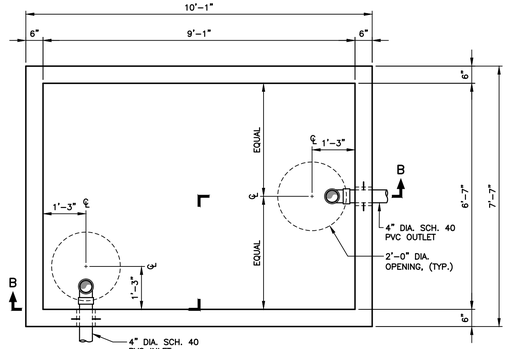
JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903

REVISIONS

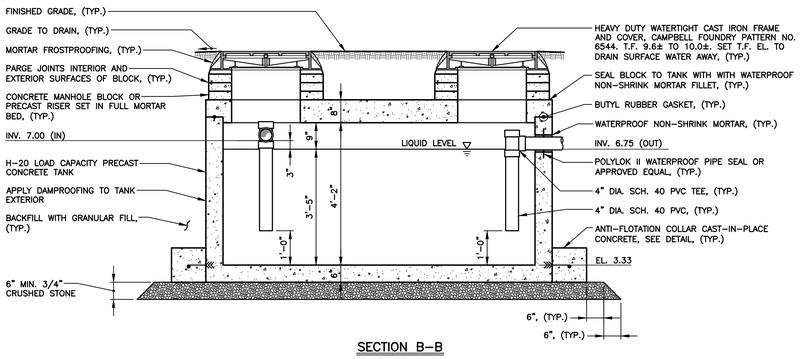
No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	AS NOTED
PROJECT No.:	09630053
CADD FILE:	09630053NOTES
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.:
10 OF 13



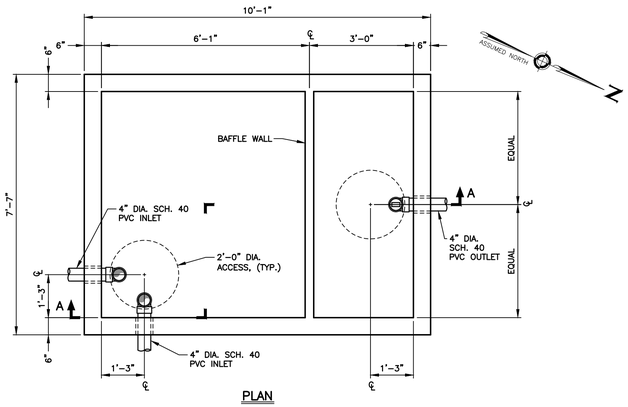
PLAN



SECTION B–B

1,500 GALLON GREASE TRAP

SCALE: 1/2" = 1'-0"



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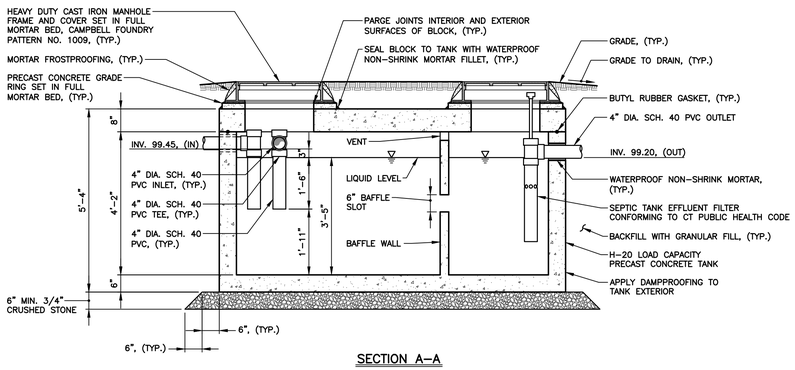
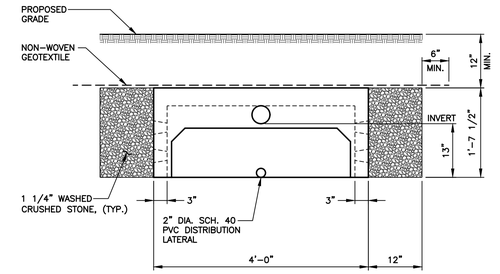


SECTION A–A

1,500 GALLON SEPTIC TANK

SCALE: 1/2"=1'-0"



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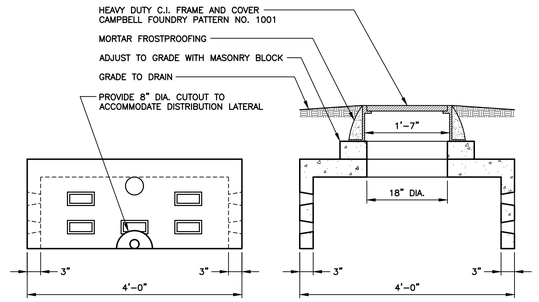
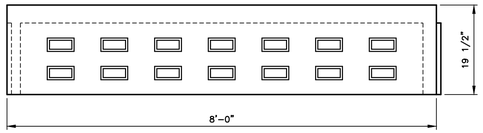


END SECTION

GALLERY ACCESS MANHOLE



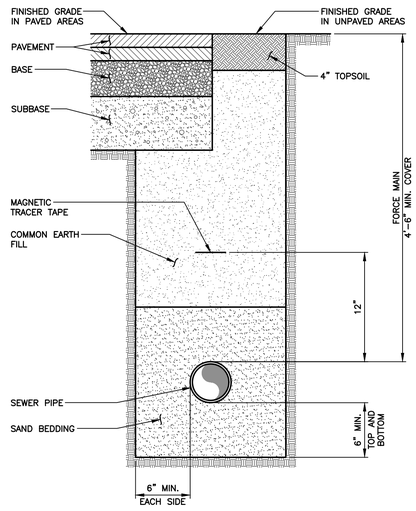
SIDE VIEW

PRECAST CONCRETE LEACHING GALLERY

SCALE: 3/4"=1'-0"

NOTES:

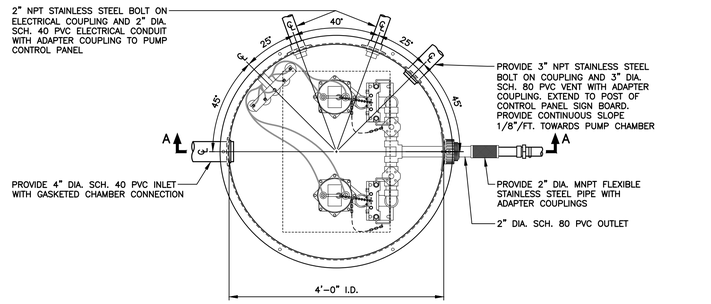
1. H–20 LOAD CAPACITY.



PIPE BEDDING DETAIL

(AREAS ≥3 FEET OF COVER)

N.T.S.



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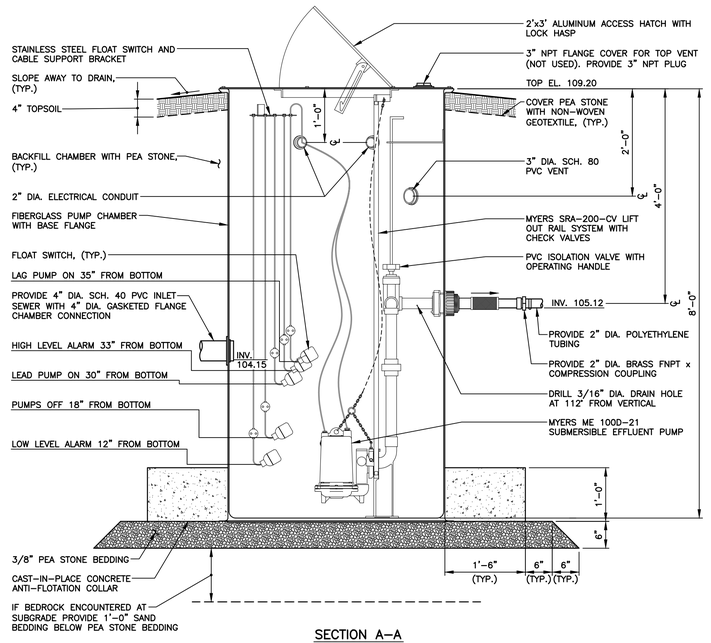

SECTION A–A

PUMP CHAMBER

SCALE: 3/4"=1'-0"

NOTES:

1. PUMP CHAMBER, PUMPS, INTERNAL COMPONENTS, FLOAT SWITCHES AND CONTROL PANEL PROVIDED BY OWNER FOR INSTALLATION BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL EXTERNAL COMPONENTS AND VENT PENETRATION WITH FITTINGS.

NOTES:

1.

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TOWN OF BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

DETAILS

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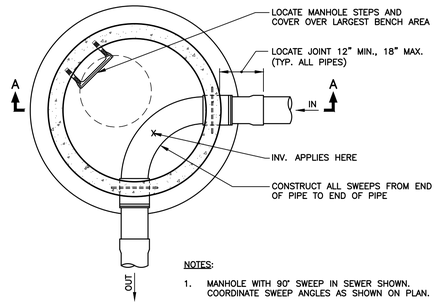
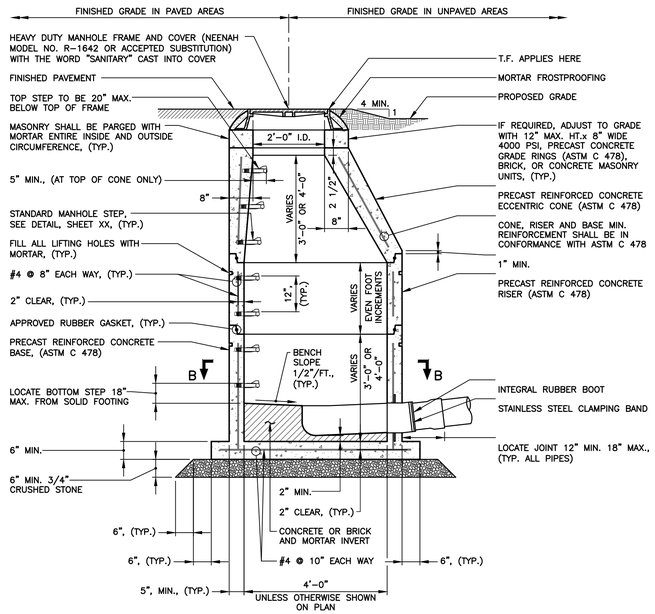


NOTES:

1. MANHOLE WITH 90° SWEEP IN SEWER SHOWN. COORDINATE SWEEP ANGLES AS SHOWN ON PLAN.

SECTION B–B



SECTION A–A

STANDARD PRECAST SANITARY MANHOLE

N.T.S.

NOTES:

1. WHEN 5' OR 6' DIAMETER BASES ARE SPECIFIED ON THE PLANS, PRECAST REINFORCED CONCRETE TRANSITION SECTIONS SHALL BE PLACED ABOVE THE BASES. WALL THICKNESSES SHALL INCREASE 1" FOR EACH 1' INCREASE IN INSIDE DIAMETER OF BASE.

NOTES:

1.

PROGRESS PRINT

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- ☐ FOR INFORMATION ONLY

DATE ISSUED October 23, 2025

NATHAN L. JACOBSON & ASSOCIATES

TOWN OF
BOLTON, CONNECTICUT

TOWN CENTER SUBSURFACE SEWAGE DISPOSAL SYSTEM

DETAILS

PERMITTING

Nathan L. Jacobson & Associates, Inc.
86 Main Street P.O. Box 337
Chester, Connecticut 06412-0337
Tel: (860) 526-9591 Fax: (860) 526-5416
www.nlja.com
Jacobson Consulting Civil and Environmental Engineers Since 1972

NOT VALID WITHOUT ORIGINAL SEAL

JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903

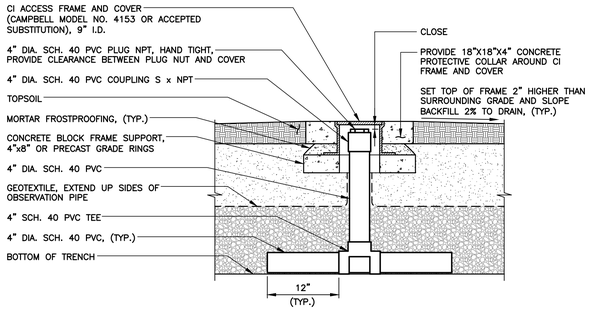
REVISIONS

No.	DESCRIPTION	DATE

DATE:	JULY 2025
SCALE:	AS NOTED
PROJECT No.:	09630053
CADD FILE:	09630053DT
DESIGNED:	BCC/JMD
DRAWN:	CEB
CHECKED:	-

SHEET No.:

12 OF 13



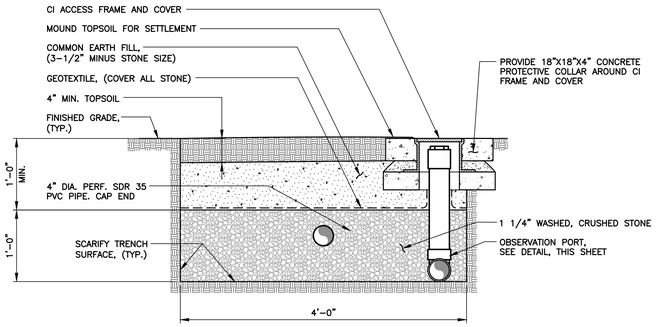
SIDE VIEW

DEPTH OF PONDING OBSERVATION PORT

N.T.S.

NOTES:

1. SOLVENT WELD ALL PIPE JOINTS.
2. PROVIDE ONE OBSERVATION PORT PER LEACHING TRENCH.

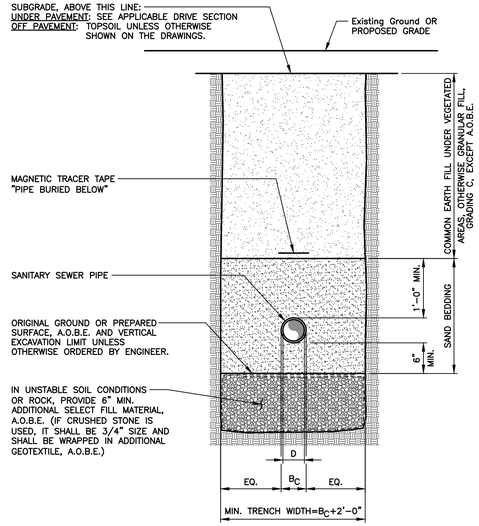


TYPICAL SECTION
LEACHING TRENCH DETAIL

N.T.S.

NOTES:

1. PRIOR TO PLACEMENT OF LEACHING FILL, REMOVE TOPSOIL AND SUBSOIL AND PLACE COMPACTED LEACHING FILL TO THE ABOVE SPECIFIED HORIZONTAL AND VERTICAL LIMITS.
2. PLACE LEACHING FILL CONCURRENTLY WITH SURROUNDING COMMON FILL.

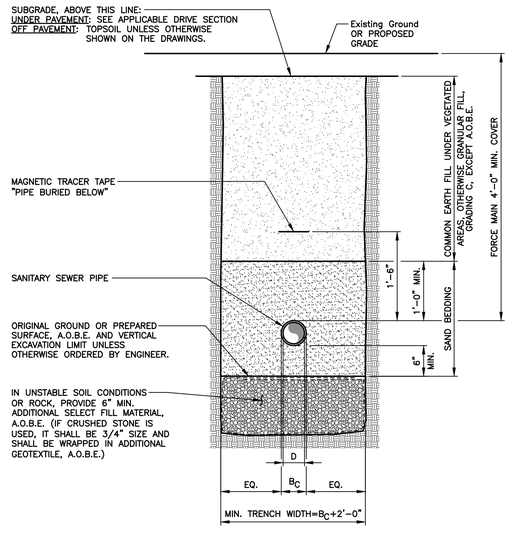


TYPICAL TRENCH SECTION
SANITARY SEWER PIPE

N.T.S.

NOTES:

1. CONTRACTOR SHALL PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER METHODS TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO THE EXCAVATION AND DAMAGING THE WORK OR ADJACENT STRUCTURES AND UTILITIES.

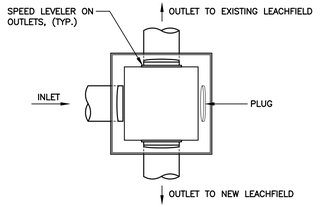


TYPICAL TRENCH SECTION
SANITARY SEWER/FORCE MAIN PIPE

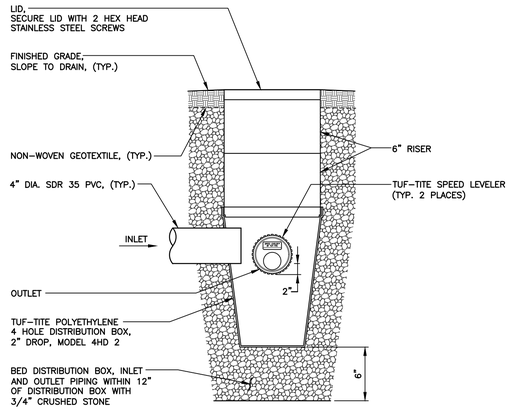
N.T.S.

NOTES:

1. CONTRACTOR SHALL PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER METHODS TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO THE EXCAVATION AND DAMAGING THE WORK OR ADJACENT STRUCTURES AND UTILITIES.



PLAN

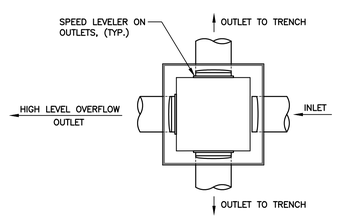


FLOW SPLITTER POLYETHYLENE
4 HOLE DISTRIBUTION BOX – 2" DROP

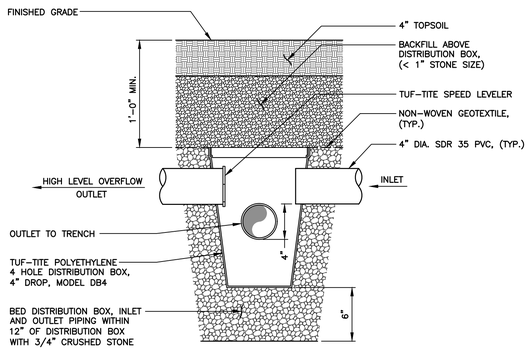
N.T.S.

NOTES:

1. IF NO OUTLET, PROVIDE P-10 PLUG.



PLAN



LEACHING TRENCH POLYETHYLENE
4 HOLE DISTRIBUTION BOX – 4" DROP

N.T.S.

NOTES:

1. IF NO OUTLET, PROVIDE P-10 PLUG.
2. TUF-TITE MODEL DB4.

NOTES:

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13 OF 13

List of Adjacent Properties

206 Bolton Center Rd

HANS CHRISTIAN ANDERSEN	212 BOLTON CENTER RD	BOLTON, CT 06043
BOLTON TOWN OF	206 BOLTON CENTER RD	BOLTON, CT 06043

220 Bolton Center Rd

BOLTON TOWN OF	222 BOLTON CENTER RD	BOLTON, CT 06043
LANE WILLIAM J & MICHELE L	17 TOOMEY RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER ROAD	BOLTON, CT 06043
BOLTON CONGREGATIONAL CHURCH INC	228 BOLTON CENTER RD	BOLTON, CT 06043
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BOLTON TOWN OF	222 BOLTON CENTER ROAD	BOLTON, CT 06043
BEEBE REBECCA	21 TOOMEY RD	BOLTON, CT 06043

222 Bolton Center Rd

BOLTON TOWN OF	222 BOLTON CENTER RD	BOLTON, CT 06043
BOLTON CONGREGATIONAL CHURCH INC	228 BOLTON CENTER RD	BOLTON, CT 06043
BOLTON CONGREGATIONAL CHURCH INC	228 BOLTON CENTER RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER ROAD	BOLTON, CT 06043

266 Bolton Center Rd

HULL THOMAS	19 MAPLE VALLEY RD	BOLTON, CT 06043
HANLON ALEXANDRA	84 MAPLE VALLEY RD	BOLTON, CT 06043
ROSE RICHARD L & MARY ANN	18 STEELES CROSSING RD	BOLTON, CT 06043
ASPINALL KATHLEEN ROSE & DANA P	6 STEELES CROSSING RD	BOLTON, CT 06043
SCHERR JOSEPH D & SHERR KATHLEEN M	280 BOLTON CENTER RD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER ROAD	BOLTON, CT 06043
BOLTON TOWN OF	222 BOLTON CENTER ROAD	BOLTON, CT 06043
BEEBE REBECCA	21 TOOMEY RD	BOLTON, CT 06043
GUDAUSKAS RANDY W & ANDREA R	27 MAPLE VALLEY RD	BOLTON, CT 06043
KEELER MICHAEL D	88 MAPLE VALLEY RD	BOLTON, CT 06043
PROTSAILO LESIA V & BOKSHAN EVAN TARAS	78 MAPLE VALLEY RD	BOLTON, CT 06043
CLAVET MARCEL G & SANDRA L	70 MAPLE VALLEY RD	BOLTON, CT 06043
CONNECTICUT STATE OF	79 ELM ST	HARTFORD, CT 06106

Report: All unexpired permits for which the permitted activities have not been completed

Record #	Applicant Name	Address	Expiration Date	Work started?	Active work?	Fully stabilized?	Brief Project Description	Agent Permit?
IW-25-15	Brian Werhle	74 Cider Mill	9/12/2027	Yes	Yes	No	ADU and driveway extension	Yes
IW-25-14	Ronald Bisson	139 Vernon	9/30/2027	No	No	Yes	Select tree cutting	No
IW-25-13	Jordan Knight	51 Loomis	9/25/2027	Yes	No	Yes	Construction of duplex	No
IW-25-12	Noah Ludecke	44 Notch	8/28/2027	Yes	Yes	Yes	Removal of invasives	Yes
IW-25-11	Town of Bolton	87 Brandy St	8/28/2027	Yes	Yes	No	Installation of drainage pipe	No
IW-25-7	Eric Peterson	61 VERNON RD, BOLTON, CT 06043	7/8/2027	No	No	Yes	Single-family home construction	No
IW-25-6	Edith Bodman	45 VERNON RD, BOLTON, CT 06043	5/30/2027	Yes	Yes	Yes	Single-family home on existing foundation	Yes
IW-25-4	Bryan Fairclough	148 BRANDY ST, BOLTON, CT 06043	5/8/2027	Yes	No	Yes	In-ground heated pool and sport court	Yes
IW-25-3	James Read	0 VERNON RD, BOLTON, CT 06043	3/4/2027	No	No	Yes	Single-family cottage construction	No

Not started
Active

Recently completed: IW-20-5 - Fabio Koellmer - 1 Notch Rd