

RECEIVED FOR RECORD
BERLIN TOWN CLERK
2020 NOV 25 PM 4:00
K. J. W. 10/20/20

**Berlin Planning and Zoning Commission Agenda
December 3, 2020**

The Berlin Planning and Zoning Commission will hold a Regular Meeting on Thursday, December 3, 2020 at 7:00 P.M. in person in the Town Council Chambers, Berlin Town Hall, 240 Kensington Road, Berlin, CT. The public will also be able to access and participate in the meeting via Webex video conference and conference call as provided below. Therefore, the public may attend the meeting in person, via Webex video conference, or via telephone conference call.

<https://townofberlin.my.webex.com/townofberlin.my/j.php?MTID=m1cb3cee3935f41be9f362529bee5d497>

Meeting number: 132 430 2160

Password: PZCTh700 (79284700 from phones and video systems)

Join by phone

+1-408-418-9388 United States Toll

*****PLEASE NOTE:** The agenda and all meeting materials related to the agenda items which will be distributed to the Commission will be posted on the town's website at: www.town.berlin.ct.us and will be available for viewing twenty-four (24) hours prior, during and after the meeting. Members of the public are encouraged to submit materials relevant to the applications no later than 12:00 p.m. on Wednesday, December 2, 2020, for posting prior to, during and after the meeting.

I Call to Order

II Commission Business

- a. Adoption of Meeting Calendar - 2021
- b. Revocation/Reduction of People's United Bank Irrevocable Standby Letter of Credit No. ISB000572 for the account of Midsun Group, Inc., \$31,572.00
- c. Revocation/Reduction of People's United Bank Irrevocable Standby Letter of Credit No. ISB000573 for the account of Midsun Group, Inc., \$116,400.00
- d. Presentation of QA&M Architecture LLC regarding Berlin Community Center concept

Continued...

BERLIN, CT.
K. G. G. G.
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III New Business

- a. Fill Permit of the City of New Britain to fill +/-16,000, +/-3.56 acres at Lot 3, Block 81, Christian Lane

IV Public Hearings

- a. Special Permit/Site Plan Applications of Thomas O'Rourke, Military Experience Museum Inc. for a Military Experience Museum at 76 Chamberlain Highway (Map 30-2, Block 74, Lot 37 and 0 Chamberlain Highway) (*Continued from September 3, 2020 and November 19, 2020*)
- b. Zone Change Request of BT 2008 LLC to change the zone at 404 Berlin Turnpike (Map Lot Block: 10-2-83-12-7333) and (Map Lot Block 10-2-83-12-7334) and (Map Lot Block: 10-2-83-13A) and (Map Lot Block: 10-2-83-13C-7509) and (Map Lot Block: 10-2-83-13C-7510) from Berlin Turnpike-1 Zone to Berlin Turnpike Development Zone (BT-1)
- c. Special Permit/Site Plan Applications of BT2008, LLC for a mixed-use development at 404 Berlin Turnpike (Map Lot Block: 10-2-83-12-7333) and (Map Lot Block 10-2-83-12-7334) and (Map Lot Block: 10-2-83-13A) and (Map Lot Block: 10-2-83-13C-7509) and (Map Lot Block: 10-2-83-13C-7510)

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VI Adjournment



Town of Berlin

Planning and Zoning Department

240 Kensington Road
Berlin, Connecticut 06037
www.town.berlin.ct.us

Planning and Zoning Commission
Zoning Board of Appeals
Conservation Commission
Historic District Commission

Planning and Zoning Commission

PROPOSED - 2021 MEETING SCHEDULE

All meetings are held at 7:00 pm

Berlin Town Council Chambers, Berlin Town Hall, 240 Kensington Road

Unless otherwise posted

SUBMITTAL DATE	MEETING DATE
January 7, 2021	February 4, 2021 February 18, 2021
February 4, 2021	March 4, 2021 March 18, 2021
March 4, 2021	April 15, 2021
April 1, 2021	May 6, 2021 May 20, 2021
May 6, 2021	June 3, 2021 June 17, 2021
June 3, 2021	July 15, 2021
July 1, 2021	August 5, 2021 August 19, 2021
August 5, 2021	September 2, 2021
September 2, 2021	October 7, 2021 October 21, 2021
October 7, 2021	November 4, 2021 November 18, 2021
November 4, 2021	December 2, 2021 December 16, 2021
December 2, 2021	January 6, 2022 January 20, 2022

Maureen K. Giusti, AICP, Acting Town Planner/ZEO. 860-828-7060. mgiusti@town.berlin.ct.us
Adam D. Levitus, PE, Zoning Enforcement Officer. 860-828-7008. alevitus@town.berlin.ct.us
Frances Semnoski, Land Use Administrator. 860-828-7066. fsemnoski@town.berlin.ct.us



People's United Bank, N.A.
850 Main Street RC 1225
Bridgeport, CT 06604

Tel: 203-338-3223
Fax: 844-835-9130
SWIFT BIC: PESB US 33 XXX
Date: 11/3/20

Notice of Non-Extension

Town of Berlin
Berlin Planning and Zoning Commission
240 Kensington Road
Berlin, CT 06037

Re: Our Irrevocable Standby Letter of Credit No.ISB000573 for the account of Midsun Group, Inc., in your favor in the amount of USD 116,400.00.

Dear Beneficiary,

This is to notify you that we elect not to extend the above Letter of Credit for an additional period of one year and that the final expiration date of this credit is 1/9/21.

Should you have any questions or concerns contact Trade Finance Operations at the number above.

THIS IS A COMPUTER GENERATED DOCUMENT. SIGNATURE IS NOT REQUIRED.

Subdivision / Site Bond

Location: **FOUR ROD ROAD**

Date of Bond: **March 26, 2007**

Developer: **MID SUN GROUP**

Original Bond Amount \$ **465,600.00**

Project Name: **HATCHERY BROOK II**

Engineering Map No. _____ Done By _____

				Original Bond		Revised Bond # 1		Revised Bond # 2		Revised Bond # 3	
Date Of Bond				11/15/06		6/20/06		3/26/07			
No.	Item	Unit Cost	Unit	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
1	12" R.C. Pipe	16.00	LF		-		-		-		-
2	15" R.C. Pipe	22.00	LF	510	11,220		-		-		-
3	18" R.C. Pipe	24.00	LF	18	432		-		-		-
4	24" R.C. Pipe	42.00	LF		-		-		-		-
5	12" R.C. Flared End	400.00	EA		-		-		-		-
6	15" R.C. Flared End	500.00	EA	2	1,000		-		-		-
7	18" R.C. Flared End	550.00	EA		-		-		-		-
8	24" R.C. Flared End	600.00	EA		-		-		-		-
9	12" Plastic Pipe	16.00	LF		-		-		-		-
10	15" Plastic Pipe	18.00	LF		-		-		-		-
11	18" Plastic Pipe	24.00	LF		-		-		-		-
12	24" Plastic Pipe	26.00	LF		-		-		-		-
13	6" Plastic Underdrain	18.00	LF		-		-		-		-
14	Catch Basin	1600.00	EA	7	11,200		-		-		-
15	Yard Drains	1200.00	EA		-		-		-		-
16	Sedimentation Structure	3500.00	EA	1	3,500	0.5	1,750		-		-
17	Storm Manholes	2500.00	EA		-		-		-		-
18	8" Sanitary Sewer & Manholes	40.00	LF	1200	48,000		-		-		-
19	4" Sewer Lateral	500.00	EA	21	10,500		-		-		-
20	8" Water Main & Valves	30.00	LF	1390	41,700		-		-		-
21	1" Water Service	300.00	EA	21	6,300		-		-		-
22	Hydrants	1500.00	EA	5	7,500		-		-		-
23	30ft Road Pav't, Curb & Base	85.00	LF	1400	119,000	1000	85,000	250	21,250		-
24	Bit. Curbing for Parking Lots	4.00	LF	3000	12,000	3000	12,000	1000	4,000		-
25	4ft Wide Concrete Sidewalk	25.00	LF	1050	26,250	850	21,250	425	10,625		-
26	Topsoil & Seeding in R.O.W.	4.00	SY		-		-		-		-
27	Landscaping Trees	100.00	EA	230	23,000	230	23,000	115	11,500		-
28	Landscaping Shrubs	50.00	EA	265	13,250	265	13,250	100	5,000		-
29	Monumentation	150.00	EA		-		-		-		-
30	Lot Pinning (Per Lot)	400.00	EA		-		-		-		-
31	Traffic Signs	150.00	EA		-		-		-		-
32	Street Lights	700.00	EA		-		-		-		-
33	Sedimentation Barriers	4.00	LF	2780	11,120	2780	11,120	2780	11,120		-
34	Anti Tracking Const Entrance Ramp	1500	LS	1	1,500	1	1,500		-		-
35	Detention Area Construction	10000	LS	1	10,000	0.5	5,000	0.5	5,000		-
36	Ditch & Swale Construction	10.00	LF		-		-		-		-
37	General Excavation & Clearing	25000	LS	1	25,000		-		-		-
38	Pavement Repair	24.00	SY	22	528		-		-		-
39	GAZEBO	5000.00	LS	1	5,000	1	5,000		-		-
40					-		-		-		-
REVISIONS		Sub-Total		\$ 388,000		\$ 178,870		\$ 68,495		\$ -	
1	2/24/05	Contingency		\$ 77,600		\$ 35,774		\$ 13,699		\$ -	
2		Total Bond		\$ 465,600		\$ 214,644		\$ 82,194		\$ -	

Minimum Ret. 25% (During Construction)	\$ 116,400
Maintenance Bond 10% (18 Mo. After Completion)	\$ 46,560

Notes: Added 1750 to Sed Structure

Added 5,000 to detention as per P&Z

Original Bond Amount \$ 465,600

Present Bond Amount \$ 214,644

Proposed Bond Amount \$ 116,400
(Min Retainage)



Town of Berlin

Planning and Zoning Department
240 Kensington Road
Berlin, Connecticut 06037
www.town.berlin.ct.us

Planning and Zoning Commission
Zoning Board of Appeals
Conservation Commission
Historic District Commission

November 18, 2020

To: People's United Bank
Attn: Margaret Olszanski
850 Main Street
Bridgeport, CT 06604

From: Town of Berlin
Planning and Zoning Dept.
240 Kensington Road
Berlin, CT 06037


Reference: People's United Bank Irrevocable Standby Letter of Credit – No. ISB000573
Present Amount: \$116,400.00
Account of: MidSun Group, Inc.

NOTICE OF AGENDA ITEM

REVOCATION OF BOND

This is to notify you that the Berlin Planning and Zoning Commission will consider the following item at its Regular Meeting of December 3, 2020, to be held at 7:00 P.M.

- a. Revocation of People's United Bank Irrevocable Standby Letter No. ISB000573 Account of Midsun Group, Inc. in the amount of \$116,400.00.


Maureen Giusti, AICP
Acting Town Planner/Zoning Enforcement Officer

Copy: Gail Erickson, Assistant Finance Director, Town of Berlin
Via Certified Mail (Return Receipt Requested): 7019 2280 0001 3341 7589
and Regular Metered Mail

Maureen K. Giusti, AICP, Acting Town Planner/ZEO. 860-828-7060. mgiusti@town.berlin.ct.us
Adam D. Levitus, PE, Zoning Enforcement Officer. 860-828-7008. alevitus@town.berlin.ct.us
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November 18, 2020

To: Mr. Robert Vojtilla
MidSun Group Inc.
135 Redstone Street
Southington, CT 06489

From: Town of Berlin
Planning and Zoning Dept.
240 Kensington Road
Berlin, CT 06037

Reference: People's United Bank Irrevocable Standby Letter of Credit – No. ISB000573
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Town of Berlin
Berlin Planning and Zoning Commission
240 Kensington Road
Berlin, CT 06037

Subdivision / Site Bond

Location: **FOUR ROD ROAD**

Date of Bond: **March 26, 2007**

Developer: **MID SUN GROUP**

Original Bond Amount \$ **127,656.00**

Project Name: **HATCHERY BROOK I**

Engineering Map No. _____ Done By _____

Date Of Bond				Original Bond		Revised Bond # 1		Revised Bond # 2		Revised Bond # 3	
						6/20/06		3/26/07			
No.	Item	Unit Cost	Unit	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
1	12" R.C. Pipe	16.00	LF		-		-		-		-
2	15" R.C. Pipe	22.00	LF	290	6,380		-		-		-
3	18" R.C. Pipe	24.00	LF		-		-		-		-
4	24" R.C. Pipe	42.00	LF		-		-		-		-
5	12" R.C. Flared End	400.00	EA		-		-		-		-
6	15" R.C. Flared End	500.00	EA		-		-		-		-
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15	Yard Drains	1200.00	EA		-		-		-		-
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21	1" Water Service	300.00	EA		-		-		-		-
22	Hydrants	1500.00	EA		-		-		-		-
23	30ft Road Pav't,Curb & Base	85.00	LF	741.176	63,000	741.18	63,000	150	12,750		-
24	Bit. Curbing for Parking Lots	4.00	LF	1800	7,200	1800	7,200	1800	7,200		-
25	4ft Wide Concrete Sidewalk	25.00	LF		-		-		-		-
26	Topsoil & Seeding in R.O.W.	4.00	SY		-		-		-		-
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38	Pavement Repair	24.00	SY		-		-		-		-
39					-		-		-		-
40					-		-		-		-
REVISIONS		Sub-Total		\$ 106,380		\$ 70,200		\$ 19,950		\$ -	
1 2/24/05		Contingency		\$ 21,276		\$ 14,040		\$ 3,990		\$ -	
2		Total Bond		\$ 127,656		\$ 84,240		\$ 23,940		\$ -	

Minimum Ret. 25% (During Construction)	\$ 31,914
Maintenance Bond 10% (18 Mo. After Completion)	\$ 12,766

Notes: _____

Original Bond Amount \$ 127,656

Present Bond Amount \$ 84,240

Proposed Bond Amount \$ **31,914**
 (Min Retainage)



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Frances Semnoski, Land Use Administrator. 860-828-7066. fsemnoski@town.berlin.ct.us

fsemnosk

From: mgiusti
Sent: Wednesday, November 25, 2020 1:28 PM
To: fsemnosk; jhorbal
Subject: FW: MidSun - Hatcherybrook development bond reduction request
Attachments: S_WALK PLAN-REVISED_082114.pdf

Fran, see attached for the bonds at Hatchery Brook

Jim

See attached bond adjustment request that relates to the expiring bonds for MidSun (Hatchery Brook Homes)

Maureen

From: Tom Carlone <tcarlone@tpcarchitects.com>
Sent: Wednesday, November 25, 2020 11:40 AM
To: mgiusti <mgiusti@town.berlin.ct.us>; Mark Hatje <mark.hatje@midsunsp.com>; bob vojtila <vojtitrf@midsungroup.com>; Joseph Carvalko <carvalko@sbcglobal.net>
Subject: MidSun - Hatcherybrook development bond reduction request

Maureen
Good morning,

I spoke to the MidSun owners and they would like to respectfully request that you have the work, outlined in the above-referenced project performance bond, inspected by your engineering department. Once you have inspected and accepted the site work, we would like to have the bond reduced to reflect the value of the sidewalk which we feel should be \$35,000. (based on bids received) These bonds are due for renewal in January 2021. Avoiding additional cost for the original bond amount would be appreciated.

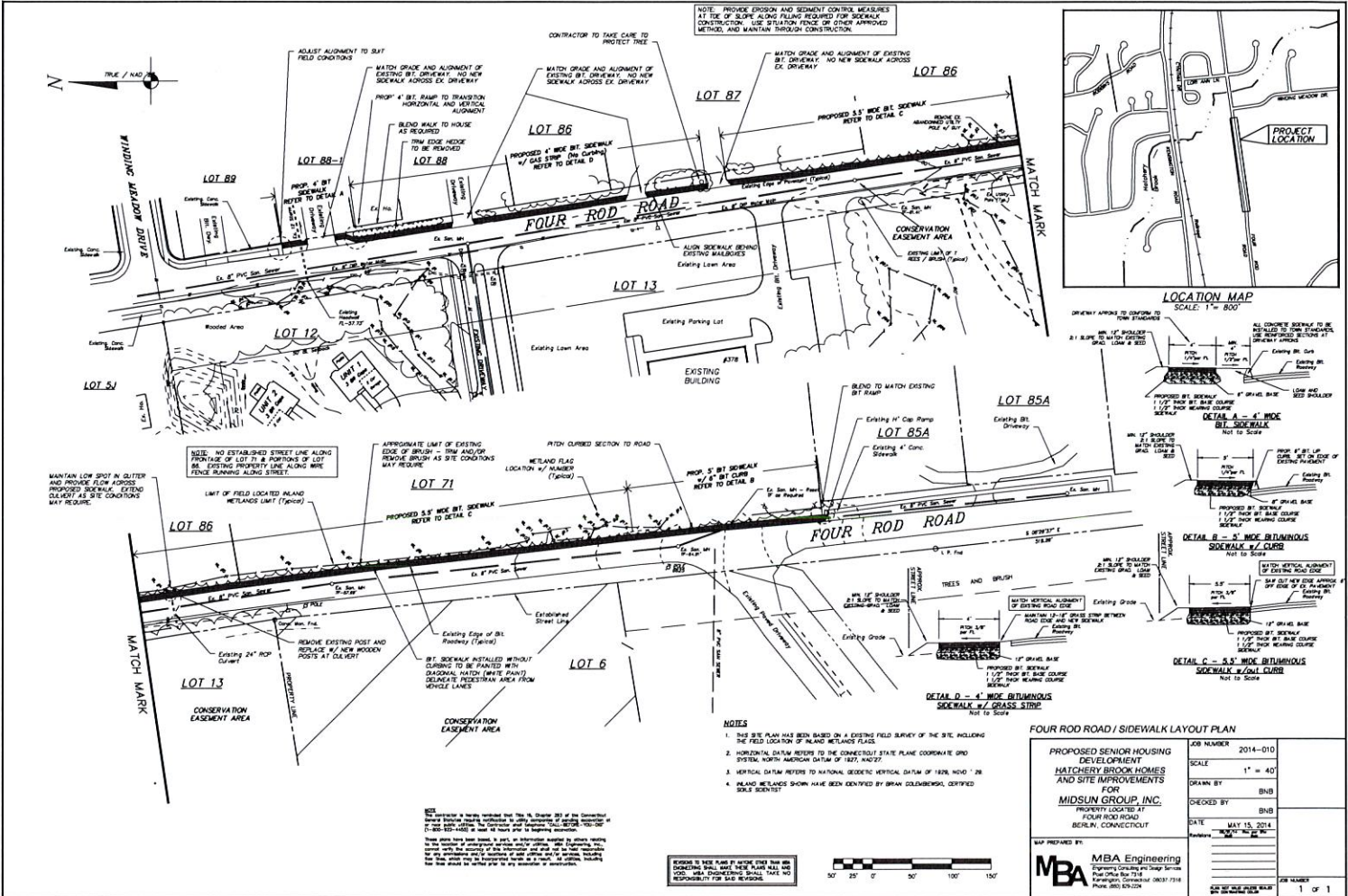
Please have your engineering department call me with any questions.

Thank you in advance for your cooperation.

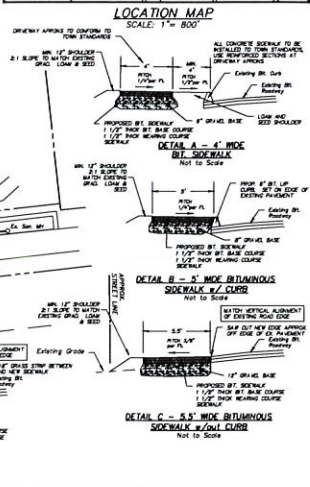
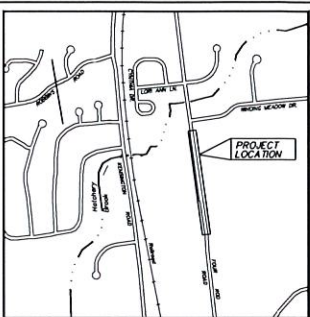
Best regards for a restful, safe Thanksgiving.
Tom

--

Thomas P. Carlone, AIA, LLC
Architects | Planners
22 North Farms Road
Avon, CT. 06001
860-637-4183



NOTE: PROVIDE EROSION AND SEDIMENT CONTROL MEASURES AT THE TOP OF SLOPE ALONG FILLING REQUIRED FOR SIDEWALK CONSTRUCTION. USE SLOTTED FENCE OR OTHER APPROVED METHOD, AND MAINTAIN THROUGH CONSTRUCTION.



- NOTES
1. THIS SITE PLAN HAS BEEN BASED ON AN EXISTING FIELD SURVEY OF THE SITE, INCLUDING THE FIELD LOCATION OF ALL METAL PILES.
 2. HORIZONTAL DATUM REFERS TO THE CONNECTICUT STATE PLANE COORDINATE GRID SYSTEM, NORTH AMERICAN DATUM OF 1822, AND 2011.
 3. VERTICAL DATUM REFERS TO NATIONAL GEODETIC VERTICAL DATUM OF 1988, NAVD 83.
 4. METAL PILES SHOWN HAVE BEEN IDENTIFIED BY BRUNN, COLUMBIA, & ASSOCIATES, INC.

FOUR ROD ROAD / SIDEWALK LAYOUT PLAN	
PROPOSED SENIOR HOUSING DEVELOPMENT HATCHERY BROOK HOMES AND SITE IMPROVEMENTS FOR MIDSUN GROUP, INC. PROPERTY LOCATED AT FOUR ROD ROAD BURLINGTON, CONNECTICUT	JOB NUMBER 2014-010 SCALE 1" = 40' DRAWN BY BNB CHECKED BY BNB DATE MAY 15, 2014 REVISION NO. 1
MAY PREPARED BY MBA Engineering Burlington, Connecticut 06033-7318 PHONE 860-670-0000	JOB NUMBER 2014-010 SCALE 1" = 40' DRAWN BY BNB CHECKED BY BNB DATE MAY 15, 2014 REVISION NO. 1



Town of Berlin
Received

NOV - 5 2020

Planning & Zoning Department
Berlin, Connecticut

**PLANNING AND ZONING COMMISSION
FILL PERMIT**

APPLICANT Name City of New Britain
Address 27 West Main St., New Britain, CT 06051
Telephone 860 826-3355 Fax 860 826-3353

OWNER (IF NOT THE APPLICANT)

Name _____
Address _____
Telephone _____

WITH THE SIGNING OF THIS APPLICATION, I GIVE MY CONSENT THAT ANY TOWN OFFICIAL AND/OR EMPLOYEE THAT THE TOWN DEEMS NECESSARY MAY ENTER MY PROPERTY TO VERIFY INFORMATION SUBMITTED FOR THIS APPLICATION.

Signature *Robert Trotter* Date 11/5/2020
Robert Trotter, City Engineer for the City of New Britain

I hereby make application requesting a fill permit at:

Lot No. 3 Block No. 81 Located on the
☐ north ☐ south ☒ east ☐ west side of Christian Lane
☐ street ☐ road ☐ avenue ☐ other (_____)
2,200 feet distant ☒ north ☐ south ☐ east ☐ west side
from the intersection of Deming Road
☐ street ☐ road ☐ avenue ☐ other (_____) with
Christian Lane ☐ street ☐ road ☐ avenue ☐ other (_____)

Number of cubic yards to be filled: 16,000 Number of acres to be filled: 3.56

Is the subject property within 500 feet of another municipality? Yes

Attach fifteen copies of an A-2 survey map of the property showing existing and proposed grades.

CORRESPONDENCE SHOULD BE DIRECTED TO

Name	Robert Trottier, City Engineer
Address	27 West Main Street, New Britain, CT 06051
Telephone	860 826-3355 Fax 860 826-3353
Email	rtrottier@newbritainct.gov

FEE: \$170.00 plus, after approval, \$75.00 per 1,000 cubic yards, or any fraction thereof of material to be filled, plus \$60 for the State of Connecticut Solid Waste Management Fund

Note: One check made payable to "Town of Berlin" in the proper amount may be submitted.

Town of Berlin
Received

NOV - 5 2020

Planning & Zoning Department
Berlin, Connecticut

Fill Permit Fee Paid

\$ _____
Received by _____

State of Connecticut Solid Waste Management Fund Fee Paid

\$ _____
Received by _____

November 16, 2020

Updated November 24, 2020 (Fire Marshal – Health District)

**TOWN OF BERLIN
PLANNING & ZONING DEPARTMENT – STAFF COMMENTS**

APPLICATION: Fill Permit
APPLICANT: Robert Trottier, PE
LOCATION: Christian Lane Fill Permit
AGENDA: December 3, 2020

To the Applicant:

- *These are the comments received to date, additional comments may be forthcoming. Please submit any written response to Maureen Giusti, Acting Town Planner/Zoning Enforcement Officer at mgiusti@town.berlin.ct.us or revised plans directly to the Planning & Zoning Department in Room 121. We will forward your comments or distribute materials to the relevant department.*

Board of Police Commissioners

No comment

Police Chief

No comment

Inland Wetlands

No comment

Engineering – Town Engineer

- 1) Install a bituminous concrete apron at access drive's connection to Christian Lane – from property line west to existing roadway edge.
- 2) Any contractor working within Town Right of Way should obtain a Town of Berlin contractor's license.

Fire Marshal

No comment

Health District

No comment

Emailed to Applicant: November 24, 2020



Narrative:
The proposed development consists of filling over the former City of New Britain landfill located on Christian Lane behind 510 Christian Lane. The area to be filled is approximately 3.56 acres and will contain a maximum of 16,000 cubic yards. The fill material will consist of dredged pond sediment taken from Stanley Quarter Park pond located at 115 Eddy Glover Boulevard in New Britain, CT. The pond sediment will be thoroughly dewatered prior to hauling and will be placed to a depth of approximately 3 feet across the top of the landfill. Side slopes of the area to be filled will not exceed 4 feet horizontal to 1 foot vertical. A 20 foot wide access drive will be constructed to provide access to the fill area from the parcels frontage on Christian Lane.

Filling activities will begin once State DEEP approvals are received for the dredge operation at Stanley Quarter Park Pond which is anticipated by August 2021. Filling activities will be completed by October 2022. Hauling operations will be restricted to the following schedule:

- 1. Hauling will be permitted on non-holiday weekdays only between the hours of 7:00 a.m. and 5:00 p.m.
- 2. All trucks shall access and exit the site via the Route 9 Christian Lane exit.
- 3. The maximum number of truck trips per day shall not exceed 50.

Sequence of Operations:

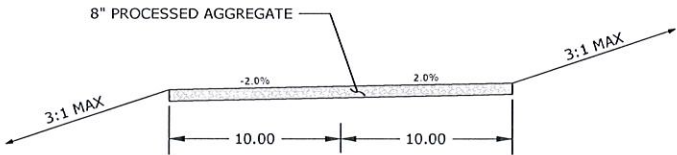
- 1. All Erosion and Sedimentation Controls shall be installed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.
- 2. Install anti-tracking pad and silt fence as shown on the Grading and Erosion and Sedimentation Control Plan.
- 3. Obtain curb cut permit from the Town of Berlin and install the proposed access drive. All disturbed areas from this operation shall be seeded, mulched and stabilized.
- 4. Remove all brush and vegetation within the limits of the proposed access drive and filling operation.
- 5. Begin proposed filling operation. Filling shall begin at the south end of the site and progress from south to north.
- 6. Fill areas shall not exceed 1 acre prior to being brought to final grade, seeded, mulched and stabilized. Fill areas not in use for more than 30 days shall also be brought to final grade, seeded, mulched and stabilized.
- 7. The proposed final grades shall be in conformance with the grading plan and shall promote sheet flow runoff.
- 8. All control measures shall be maintained in effective condition for the duration of the project.

Map References:

- 1. Boundary information taken from "Christian Lane Boundary Survey, City of New Britain Bureau of Engineering, scale 1"=100', sheet 2 of 5, dated March 1992, revised to 5/9/2005, prepared by Patrick Toscano, L.S. No. 14827".
- 2. Topography in area of proposed filling taken from a field survey.
- 3. Topography outside area of proposed filling taken from Connecticut Environmental Conditions Online (CTECO) One foot contour data used for the 2016 Connecticut LIDAR project.
- 4. Aerial imagery was taken from Connecticut Environmental Conditions Online (CTECO) 2019 Ortho-photography collected for Connecticut in the spring of 2019.

Notes:

- 1. Total area of property is approximately 42 acres.
- 2. Total area of disturbance equals 4.07 +/- acres broken down as follows:
 - a. Area of proposed filling operation - 3.56 +/- acres.
 - b. Area of access drive - 0.51 +/- acres.
- 3. Property is located in the General Industrial (GI) Zone.
- 4. Property is shown as Lot 3 Block 81 on Assessor's Map 4.
- 5. Vertical Datum refers to approximate NGVD 1988.



TYP. ACCESS DRIVEWAY SECTION
Town of Berlin
Received
NOV - 5 2020
Planning & Zoning Department
Berlin, Connecticut

Survey Notes:

This Survey and Map has been prepared in accordance with sections 20-300b-1 thru 20-300b-20 of the regulations of Connecticut State Agencies - "Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc.



The type of survey performed is a Topographic Survey.

This survey conforms to a Class T-2.

To the best of my knowledge and belief this map is substantially correct as noted herein.

This Erosion and Sedimentation Control Plan is in conformance with the provisions of Section X.A. of the Town of Berlin Zoning Regulations.

Michael J. Caruso 11-5-20 Date
Robert Trotter 11/5/20
Robert Trotter, P.E.

<div>CITY OF NEW BRITAIN 27 WEST MAIN STREET NEW BRITAIN, CT 06051 DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING</div> <div></div>		PROJECT TITLE <div>CHRISTIAN LANE LAND FILL</div>		DRAWING TITLE <div>GRADING AND E&S CONTROL PLAN</div>	
DRAWN BY J. OUTLAW		CHECKED BY R. TROTIER		SCALE 1" = 50'	
<div></div>					
PROJECT NUMBER N/A		DRAWING NUMBER GRD-01		REVISION DESCRIPTION	
REV. DATE					

SEDIMENT & EROSION CONTROL SPECIFICATIONS

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATER BODY, AND CONDUIT CARRYING WATER. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATER BODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
- A. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
- B. PROVISION SHOULD BE MADE TO SHEET FLOW SURFACE WATER SAFELY TO THE EDGE OF FILL SLOPES TO PREVENT SURFACE RUNOFF FROM DAMAGING FILL SLOPES.
- C. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.
- D. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

EROSION CHECKS

TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (5") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF SIX INCHES (6") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEMAED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (PER TABLE BELOW) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER FLOW OR DRAINAGE.

VEGETATIVE COVER

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

FORM 817 SECTION 9.50

TURF ESTABLISHMENT EROSION CONTROL MATTING

9.50.1 -Description: The work included in this item shall consist of providing an accepted uniform stand of established perennial turf grasses by furnishing and placing fertilizer, seed, and mulch on all areas to be treated as shown on the plans or where designated by the Engineer. Sowing shall be by traditional installation or hydroseed methods. The work shall also include the installation of erosion control matting, as shown on the plans or where designated by the Engineer, consisting of mulch and netting woven together as a unit.

9.50.2 -Materials:

Seed shall meet the requirements of M.13.04. Fertilizer shall meet the requirements of M.13.05. Erosion control matting, if required, shall be from the Department's Qualified Products List and shall meet the requirements of M.13.09.

9.50.3 -Construction Methods: Construction Methods shall be those established as

agronomically acceptable and feasible and which are approved by the Engineer.

1. Surface Preparation:

- i. Level areas, medians, interchanges and lawns: These areas shall be made friable and receptive for seeding by disking or by other approved methods to the satisfaction of the Engineer. All disturbed soil areas at final grade shall be seeded within 7 days, or as directed by the Engineer, in accordance with these specifications. In all cases, the final prepared and seeded soil surface shall meet the lines and grades for such surface as shown in the plans, or as directed by the Engineer.
- ii. Slope and Embankment Areas: These areas shall be made friable and receptive to seeding by disking or by other approved methods which will not disrupt the line and grade of the slope surface. In no event will seeding be permitted on hard or crusted soil surface.
- iii. Seeding shall not be permitted until all weed growth is removed.

2.Seeding Season: The optimal calendar dates for seeding are:

Spring- March 15 to June 30

Fall- August 15 to October 31

All disturbed soil areas at final grade shall be seeded within 7 days or as directed by the Engineer, in accordance with these specifications. Any seeding outside the optimal dates shall be performed in the same manner. Since acceptable turf establishment is less likely, the Contractor shall be responsible for reseeding until the turf stand conforms to 9.50.03-5.

3. Sowing Methods: The Contractor shall sow the grass seed mixture using traditional methods or hydroseeding.

a)Sowing by Traditional Methods:

The rate of application shall be no less than 175 lb./ac. Fertilizer shall be initially applied at a rate of 320 lb./ac during or preceding seeding. When wood fiber mulch is used, it shall be applied in a water slurry at a rate of 2,000 lb./ac with or immediately after the application of seed, fertilizer and limestone (if limestone is required). Tackifier may be used with straw mulch as proposed by the Contractor. When the grass seeding growth has attained a height of 6 inches, the specified grass areas (mowed and unmowed) shall receive a uniform application of fertilizer hydraulically placed at the rate of 320 lb./ac.

b)Sowing by Hydroseeding:

If hydroseeding is proposed to be used, the Contractor shall furnish a Hydroseeding Plan for the Engineer's acceptance two weeks prior to the start of this work. The Hydroseeding Plan shall include the following:

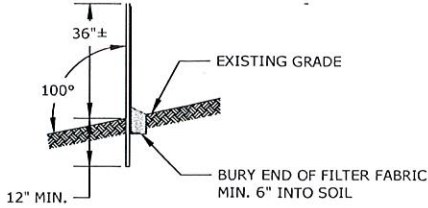
- i. Proposed Manufacturer and copy of the Manufacturer's recommended application rates for various grades and hose angles of application, the Site's soil type(s) and expected weather conditions.
- ii. Number of square feet of seeding that can be covered with the quantity of solution per hydroseeder.
- iii. Time between mixing of slurry and seed in hydroseeding tank and application.
- iv. Type of hydroseed machine including nozzle type and automation information if applicable.
- If the Hydroseeding Plan is accepted for use, deviation from 9.50.03-1 (Surface Preparation) will not be allowed. Hydroseeding shall not be used if the extended weather patterns are hot and dry and the soil surface is dry and dusty, unless the Contractor's submission addresses application of straw or hay mulch and addresses follow up maintenance (i.e. additional watering) for "drought conditions." The hydroseed tank and hose(s) shall be completely flushed and cleaned each day before seeding is to be started, and shall also be thoroughly flushed of all residue after application to every 10 acres.

4. Disturbance: The Contractor shall keep all equipment and vehicular and pedestrian traffic off areas that have been seeded to prevent excessive compaction and damage to young plants. Where any disturbance has occurred, the Contractor shall rework the soil to make a suitable seedbed, then re-seed and mulch such areas with the full amounts of the specified materials, at no additional cost to the State.

5. Stand of Perennial Turf Grasses: The Contractor shall provide and maintain a uniform stand of established turf grass species having attained a height of 6 inches consisting of no less than 60% coverage per square foot throughout the seeded areas until the entire Project has been accepted. Reseeding required to achieve and maintain a uniform stand of established turf grass species shall be at no additional cost to the State.

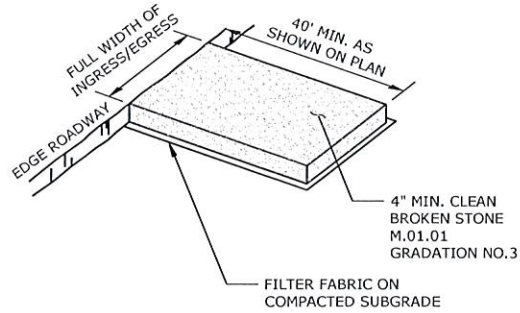
6. Establishment: The Contractor shall keep all seeded areas free from weeds and debris, such as stones, cables, baling wire, and shall mow at its own expense, on a 1-time-only basis, all slopes 4:1 or less (flatter) and level turf established (seeded) areas to a height of 3 inches when the grass growth attains a height of 6 inches. Clean-up shall include, but not be limited to, the removal of all debris from the turf establishment operations on the shoulders, pavement or elsewhere on adjacent properties publicly and privately owned. Mowing shall be done at least once, but for multiple-year projects mowing shall be done at least twice per year.

7. Erosion Control Matting: Erosion control matting shall be installed following seeding where called for on the plans or as directed by the Engineer. Staples shall be installed as per manufacturer's recommendations. Where 2 lengths of matting are joined, the end of the up-grade strip shall overlap the down-grade strip per the manufacturer's recommendations. The Contractor shall maintain and protect the areas with erosion control matting until such time as the turf grass is established. The Contractor shall replace or repair at its own expense any and all erosion control matting areas damaged by fire, water or other causes including the operation of construction equipment. No mowing will be required in the locations where erosion control matting is installed.



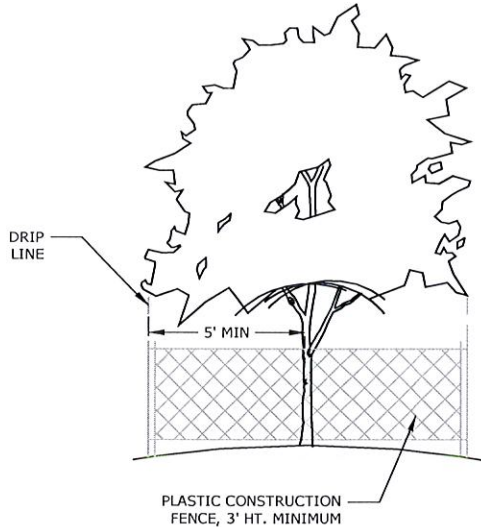
NOTES:
SEDIMENTATION CONTROL FENCE TO BE COMPLIANT WITH CTDOT APPROVED MATERIALS LIST.

1 SEDIMENTATION CONTROL SYSTEM
NOT TO SCALE



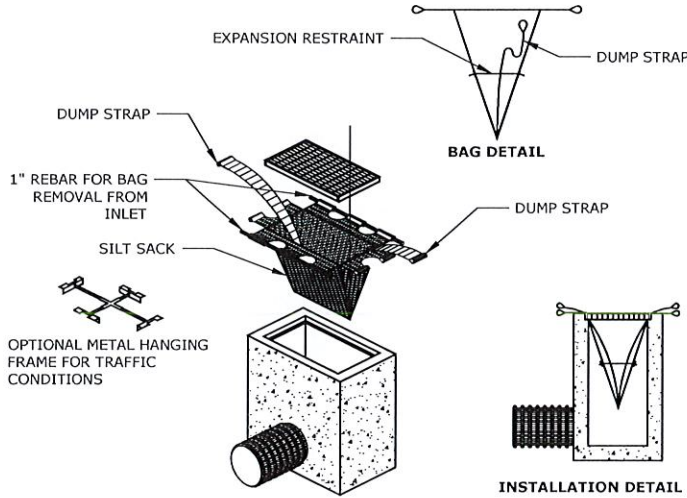
NOTES:
PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD.

2 ANTI-TRACKING PAD
NOT TO SCALE



- NOTES:
1. TREE PROTECTION FENCE WILL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (PAID UNDER CLEARING AND CRUISING).
2. FENCE SHALL COMPLETELY SURROUND THE TREE OR CLUSTER OF TREES.
3. FENCE SHALL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIPLINE) AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT THE FOLLOWING:
A. SOIL COMPACTION IN THE ROOT ZONE RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF CONSTRUCTION MATERIALS.
B. ROOT ZONE DISTURBANCES DUE TO GRADING CHANGES (GREATER THAN 6") CUT OR FILL OR TRENCHING.
C. WOUNDS TO EXPOSED TREE ROOTS, TRUNKS OR LIMBS.
D. OTHER ACTIVITIES DETRIMENTAL TO TREE HEALTH SUCH AS CHEMICAL STORAGE OR CLEANING.
4. EXCEPTIONS TO INSTALLING FENCE TO THE DRIPLINE MAY BE CONSIDERED FOR APPROVAL AND MUST BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIEW.

3 TREE PROTECTION DETAIL
NOT TO SCALE



NOTES:
CATCH BASIN INLET PROTECTION TO BE COMPLIANT WITH CTDOT APPROVED MATERIALS LIST.

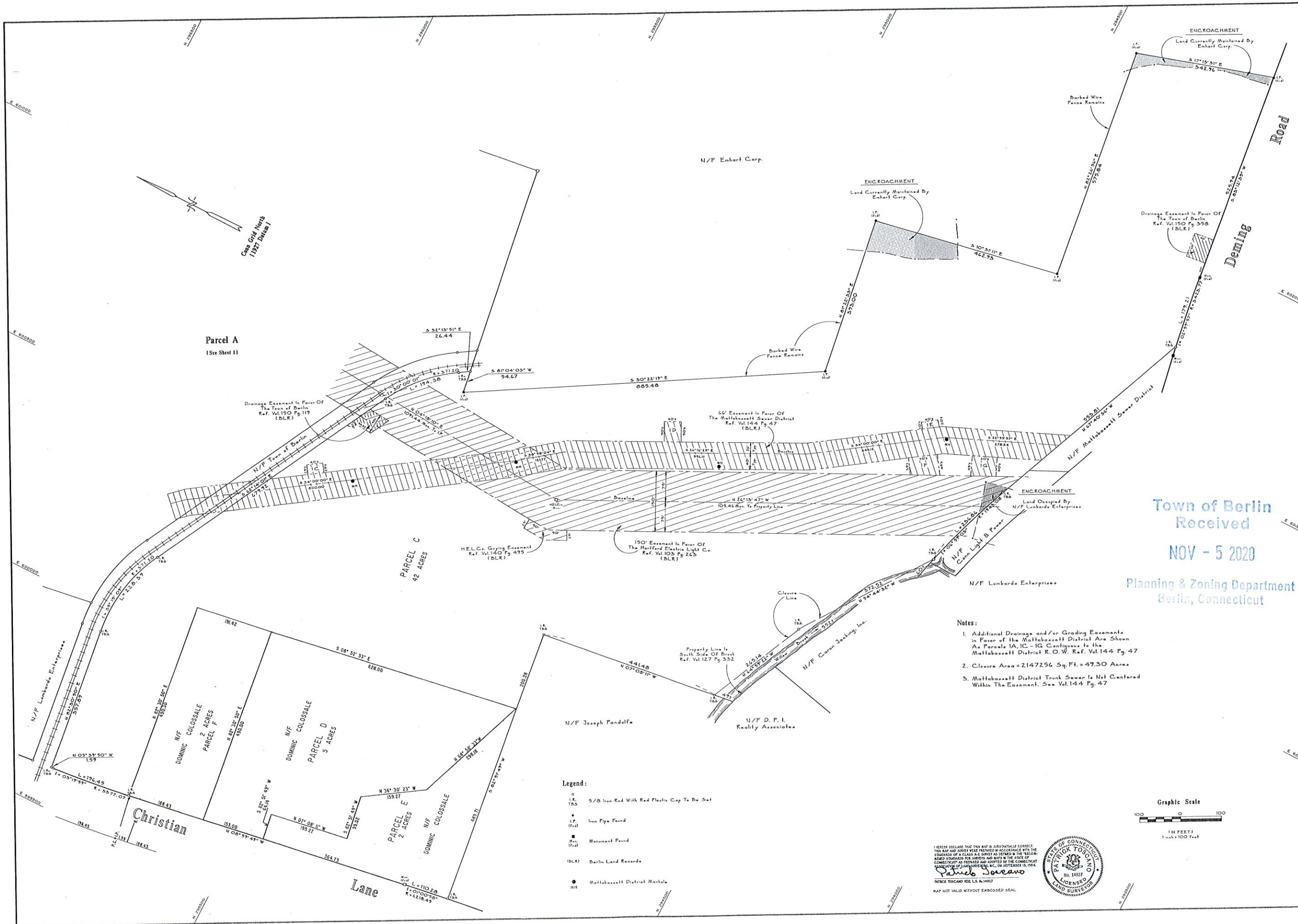
4 INLET PROTECTION
NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 48 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO 1/2 THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
HAY BALES (HB)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO 1/2 THE HEIGHT OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	HAY BALES MAY BE REMOVED AFTER UPHILL AREAS HAVE BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
CATCH BASIN INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6" OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.



3-B



SHEET 2 OF 5	SCALE	REV.	DATE	DESCRIPTION	BY	APP'D	Christian Lane Boundary Survey	CITY OF NEW BRITAIN BUREAU OF ENGINEERING DEREK W. MORSE, DIRECTOR 185 MAIN STREET NEW BRITAIN, CONNECTICUT
	HORIZ.	1" = 100'	1	5-9-2005	ENCROACHMENT EASEMENT	G.C.		
	VERT.							
JOB NO. 02313							DESIGNED BY: _____ DRAWN BY: R. P. _____ CHECKED BY: P. J. _____ DATE: March 1992	