

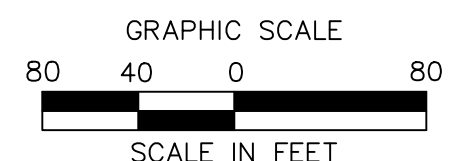


PROFUSED MIXED-USE DEVELOPMENT
(COMMERCIAL & RESIDENTIAL)
404 BERLIN TURNPIKE
BERLIN, CONNECTICUT

REVISIONS	No.	Date	Desc.
Designed			C.J.L.
Drawn			C.J.L.
Reviewed			
Scale			1"=80'
Project No.			18C661
Date			11/09/2018
CAD File:			SK18C661125

Sheet No.

SK-25



I:\9\2020, CLHEUREUX, G:\JOBS\18\18C\18C6611\DWG\5K18C661125.DWG, 5K-25 24X36 80SG.

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November 9, 2020

**PLANNING & ZONING DEPARTMENT
PROJECT REVIEW SHEET**

APPLICATION: Fill Permit

LOCATION: Christian Lane Fill Permit

APPLICANT: Robert Trottier, P.E.
c/o City of New Britain

AGENDA DATE: December 3, 2020

Note:

If possible, please return the plans with your comments. Thank you.

Department/District:

<input type="checkbox"/> Town Planner	<input type="checkbox"/> Building Official
<input type="checkbox"/> Assistant Town Planner/ZEO	<input type="checkbox"/> Berlin Water Control
<input type="checkbox"/> Engineering	<input type="checkbox"/> Health District
<input type="checkbox"/> Kensington Fire District	<input type="checkbox"/> Fire Marshal
<input type="checkbox"/> Worthington Fire District	<input type="checkbox"/> Board of Police Commissioners
<input type="checkbox"/> Board of Education	<input type="checkbox"/> Inland Wetlands
<input type="checkbox"/> Conservation Commission	<input type="checkbox"/> Police Chief

☐ No Comment

☐ Comments:

Signature/Date



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 Commission
Berlin, CT 06010

Fill Permit Fee Paid

\$ _____
Received by _____

State of Connecticut Solid Waste Management Fund Fee Paid

\$ _____
Received by _____

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 (6") 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 DEEMED 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 hydroseeded 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 375 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:

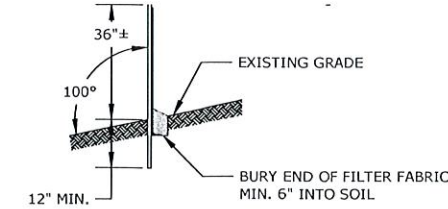
- i. Proposed Manufacturer and copy of the Manufacturer's recommended application rates for various grades and hose angles of application, the Site's soil type(s) and expected weather conditions.
- ii. Number of square feet of seeding that can be covered with the quantity of solution per hydroseeder.
- 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.

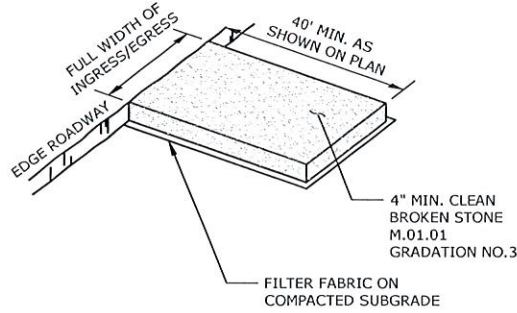
6. Establishment: The Contractor shall keep all seeded areas free from weeds and debris, such as stones, cables, baling wire, and shall mow at its own expense, on a 1-time-only basis, at slopes 4:1 or less (flatter) and level turf established (seeded) areas to a height of 3 inches when the grass growth 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.



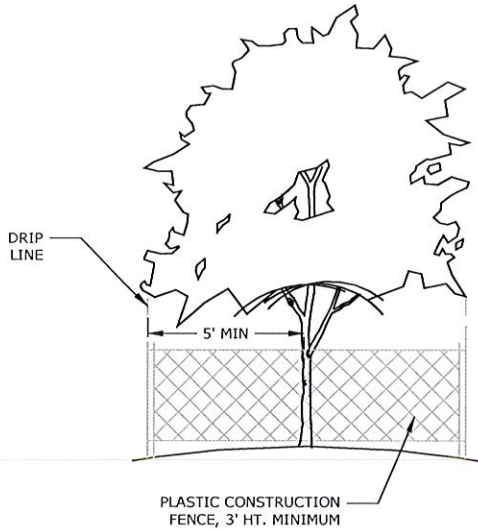
NOTES:
SEDIMENTATION CONTROL FENCE TO BE COMPLIANT WITH CTDOT APPROVED MATERIALS LIST.

1 SEDIMENTATION CONTROL SYSTEM
NOT TO SCALE



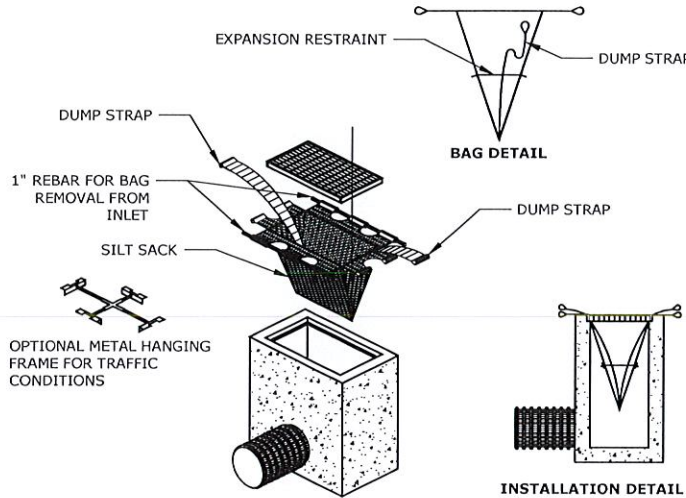
NOTES:
PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD.

2 ANTI-TRACKING PAD
NOT TO SCALE



- NOTES:
- TREE PROTECTION FENCE WILL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (PAID UNDER CLEARING AND GRUBBING).
 - FENCE SHALL COMPLETELY SURROUND THE TREE OR CLUSTER OF TREES.
 - 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:
 - SOIL COMPACTION IN THE ROOT ZONE RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF CONSTRUCTION MATERIALS.
 - ROOT ZONE DISTURBANCES DUE TO GRADING CHANGES (GREATER THAN 6") CUT OR FILL OR TRENCHING.
 - WOUNDS TO EXPOSED TREE ROOTS, TRUNKS OR LIMBS.
 - OTHER ACTIVITIES DETRIMENTAL TO TREE HEALTH SUCH AS CHEMICAL STORAGE OR CLEANING.
 - 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.

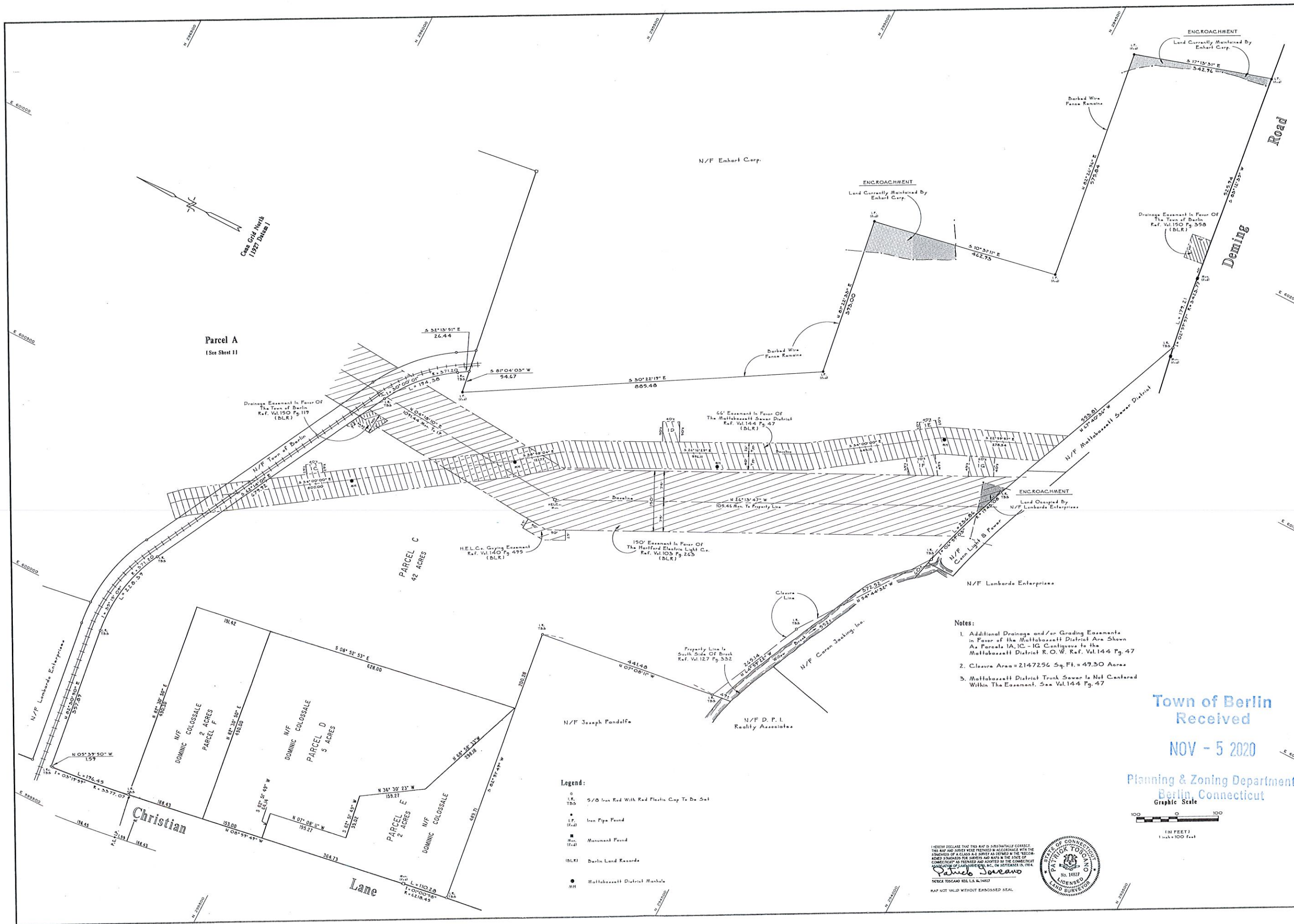
4 INLET PROTECTION
NOT TO SCALE

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 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 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-B1



- Notes:
1. Additional Drainage and/or Grading Easements in Favor of the Mattabessett District Are Shown As Parcels 1A, 1C - 1G Contiguous to the Mattabessett District R.O.W. Ref. Vol. 144 Pg. 47
 2. Closure Area = 2147256 Sq. Ft. = 49.30 Acres
 3. Mattabessett District Trunk Sewer Is Not Centered Within The Easement. See Vol. 144 Pg. 47

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Planning & Zoning Department
Berlin, Connecticut

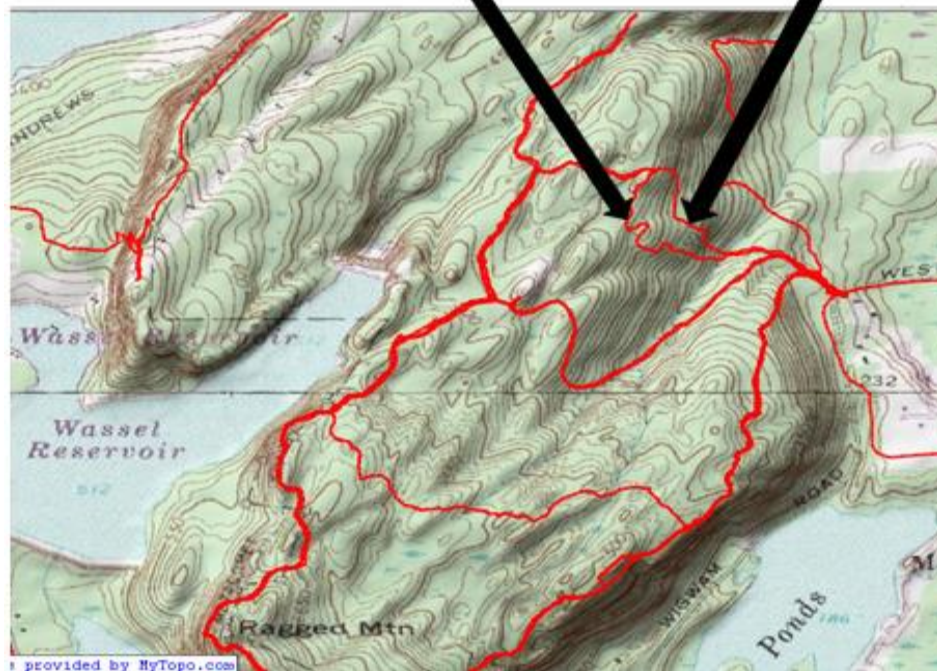


SHEET	CITY OF NEW BRITAIN			
	BUREAU OF ENGINEERING			
	DEREK W. MORSE, DIRECTOR			
	185 MAIN STREET NEW BRITAIN, CONNECTICUT			
2	DESIGNED BY:			
	DRAWN BY: R. P.			
	CHECKED BY: P. J.			
	DATE: March 1992			
5	Christian Lane			
	Boundary Survey			
	REV. DATE DESCRIPTION BY APPD			
	1 5-5-2020 ENCLOSURE PLANNING DEPT			
	SCALE			
	HORIZ. 1" = 100'			
	VERT. 1" = 100'			
	JOB NO. 020133			

Proposed Relocation of the Blue/Orange Trail

Proposed relocation

Existing Trail



provided by NyTopo.com

