

City of Rochester, New Hampshire

Property information

Size of site: 32.2 acres; overlay zoning district(s)? Conservation Overlay District

Telephone #: (603) 330-2164 Email: bmagnusson@wm.com

Telephone #: _____ Email: _____

Email address: esteinhausersanbornhead.com Professional license #: 11494

Addition(s) onto existing building(s): _____ Demolition: _____ Change of use: _____

Describe proposed activity/use: Expansion of the existing gravel storage area and installation of additional stormwater conveyance and treatment features to allow for a single location for storing containers and continued use of the property.

Describe existing conditions/use (vacant land?): Existing gravel storage area, office building, and a container and compactor maintenance building.

Utility information

City water? yes ☐ no ☒; How far is City water from the site? Not Applicable.

City sewer? yes ☐ no ☒; How far is City sewer from the site? Not Applicable.

If City water, what are the estimated total daily needs? Not Applicable. gallons per day

If City water, is it proposed for anything other than domestic purposes? yes ☐ no ☒

If City sewer, do you plan to discharge anything other than domestic waste? yes ☐ no ☒

Where will stormwater be discharged? Cocheco River and wetlands

Building information

Type of building(s): Existing Office Building and Container/Compactor Maintenance Facility

Building height: Unkown Finished floor elevation: Unknown

Other information

parking spaces: existing: 0 total proposed: 0; Are there pertinent covenants? No

Number of cubic yards of earth being removed from the site 1,575

Number of existing employees: N/A; number of proposed employees total: N/A

Check any that are proposed: variance ☒; special exception ☐; conditional use ☐

Wetlands: Is any fill proposed? Yes; area to be filled: 0.26 acres; buffer impact? Yes

| Proposed <i>post-development</i> disposition of site (should total 100%) | | |
|--|----------------|----------------|
| | Square footage | % overall site |
| Building footprint(s) – give for each building | 10,259 | 0.7 |
| Parking and vehicle circulation | 6,364 | 0.5 |
| Planted/landscaped areas (excluding drainage) | 124,529 | 8.9 |
| Natural/undisturbed areas (excluding wetlands) | 1,162,326 | 83.0 |
| Wetlands | 30,077 | 2.1 |
| Other – drainage structures, outside storage, etc. | 67,335 | 4.8 |

Comments

Please feel free to add any comments, additional information, or requests for waivers here:

Requests for waivers are included with the application

Submission of application

This application must be signed by the property owner, applicant/developer (if different from property owner), and/or the agent.

I (we) hereby submit this Site Plan application to the City of Rochester Planning Board pursuant to the City of Rochester Site Plan Regulations and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.

Signature of property owner: 

Date: 7/2/19

Signature of applicant/developer: _____

Date: _____

Signature of agent: _____

Date: _____

Authorization to enter subject property

I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.

Signature of property owner: 

Date: 7/2/19



TURNKEY RECYCLING & ENVIRONMENTAL ENTERPRISE

30 Rochester Neck Road
Rochester, NH 03839
603 330 2197
603 330 2130 Fax

July 8, 2019

Mr. James B. Campbell, Director
Planning and Development Department
City of Rochester
31 Wakefield Street
Rochester, New Hampshire 03867

Re: Letter of Intent – Application for Site Plan Approval
Container Storage Area
Turnkey Recycling and Environmental Enterprise (TREE)
Rochester, New Hampshire

Dear Mr. Campbell:

Waste Management of New Hampshire, Inc. (WMNH) is proposing to expand the Container Storage Area (CSA), located at 214 Rochester Neck Road. Prior to WMNH's ownership in 2007, the property was used for industrial purposes. Recently, WMNH learned that the property was subdivided in 1999 by the owner at that time, but deeds describing the subdivided parcels were not recorded with the Strafford County Registry of Deeds. Because WMNH owns both parcels, and consistent with WMNH's desire to simplify its land ownership records, on June 18, 2019 WMNH submitted a Lot Combination Application for the subdivided lots with the City. For the purposes of this Site Plan Application, WMNH assumes that the Lot Combination Application will be approved and hence property references herein are for 214 Rochester Neck Road, Tax Map 268 Lot 2.

Additionally, WMNH submitted a Zoning Variance Application on June 19, 2019 for the facility because the property, which has been in industrial use since approximately 1999, lies within the City of Rochester's (City's) Agricultural Zoning District. Based on discussions and emails with the City's Department of Planning and Development, we understand that the CSA should be categorized as a "Truck Terminal," a zoning category that most closely describes the current CSA operations. Because "Truck Terminal" does not meet the objectives or development standards of the City's Agricultural District and is not listed in the Tables of Uses in Section 18 of the City's Zoning Ordinance as a use that meets the requirements for a special exemption from the Zoning Ordinance, we requested a variance from the terms of the zoning ordinance to continue the existing non-conforming use of the property. For the purposes of this Site Plan Application, WMNH assumes that the Zoning Variance Application will be approved.

The following information is provided for this Site Plan Review application.

| | |
|-------------------------------|---|
| Applicant's Name: | Waste Management of New Hampshire, Inc. (property owner) |
| Property Locations: | 214 Rochester Neck Road, Parcel 268-2 |
| Size and Use: | ~2-acre area for recycling and waste container storage. |
| Proposed Use: | WMNH is proposing to expand the gravel storage area at the CSA to allow for a single location for storing its containers and continue the current use of the property. |
| Previous Use: | The CSA is used for container storage and includes an office building and a container and compactor maintenance building. |
| Existing Conditions: | The existing CSA consists of a gravel storage area, an office building, and a container and compactor maintenance building. The facility is accessed by a paved driveway accessed by Rochester Neck Road. The paved driveway ends, and the remaining storage and work area is gravel. The area surrounding the storage area is well vegetated and an existing wetland is located south of the CSA. |
| Resulting Employees: | WMNH is not proposing to increase employees as a result of this project. |
| Hours of Operation: | 7 AM to 5PM, Mon through Fri. |
| Off-street Parking: | No additional parking is required. |
| Proposed Site Changes: | The CSA will become the central repository for recycling and waste containers. At present, WMNH stores containers at numerous locations across the TREE property. These containers are either in a que to be refurbished or to be deployed to customers. The expansion of the landfill and the associated relocation of the other TREE operations directly impacts the available areas for storing the containers. This project includes expanding the existing gravel storage area at the CSA to allow for a single location for storing containers versus having them at several locations on the TREE property. Stormwater management features will also be installed. |
| Property Access: | Access to the Container Storage Area will not change. |

Please contact me at (603) 330-2142 and or mdevine@wm.com should you require additional information regarding this proposed development.

Sincerely,

WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.



Mark P. DeVine
Construction Project Manager

Enclosures: Nonresidential Site Plan Application
Site Plan Checklist
Abutters List
Mailing Labels (2 per abutter, provided separately)
Waiver Requests
Narrative
11" x 17" Drawings (2 additional copies provided separately)
22" x 34" Drawings (3 copies, provided separately)
Drainage Report (2 copies, provided separately)
Application Fee (provided separately)

Copies to: Bob Magnusson, WMNH
Eric Steinhauser, Sanborn Head



July 8, 2019

TURNKEY RECYCLING & ENVIRONMENTAL ENTERPRISE

30 Rochester Neck Road
Rochester, NH 03839
603 330 2197
603 330 2130 Fax

Mr. James B. Campbell, Director
Planning and Development Department
City of Rochester
31 Wakefield Street
Rochester, New Hampshire 03867

Re: Waiver Request
Site Plan Application – Container Storage Area (CSA)
Turnkey Recycling and Environmental Enterprise (TREE)
Rochester, New Hampshire

Dear Mr. Campbell:

Waste Management of New Hampshire, Inc. (WMNH) is requesting a waiver from the Site Plan Regulations (Regulations) for the above referenced project with respect to wetland areas (classified as Conservation Overlay District [COD] by the City's Zoning Ordinance). The waiver request is related to impacts to delineated jurisdictional wetland areas within or adjacent to the proposed project. Specifically, the waiver request is from Article III, Section 8 (C)(1) of the Regulations. We note that the proposed wetland impacts were discussed with the City's Conservation Commission (who visited the project site on July 15, 2017), the New Hampshire Department of Environmental Services (NHDES), the US Army Corps of Engineers (USACE), and the United States Environmental Protection Agency (USEPA). A Wetlands Permit Application, which included this project, was submitted to the NHDES Wetlands Bureau on May 19, 2017. The City was provided a copy of the Wetlands Permit Application, which included additional information regarding wetland impacts for this proposed project. The Conservation Commission approved the NHDES Wetland Permit Application on January 24, 2018 and a NHDES Wetlands Permit was issued on June 29, 2018, followed by a USACE General Permit on August 30, 2018.

BACKGROUND

Section 8 Part (C)(1) of the Regulations requires that applicants adhere to the regulations of the COD defined in the City's Chapter 42.12 of the Ordinance. For this project, the COD includes jurisdictional wetland areas and the 50-foot buffer from the edge of the wetland, as defined in the Ordinance. The enclosed Wetland Impact Figure 6¹ illustrates the proposed impacts to wetland Area CC and associated buffers from the CSA proposed project.

¹ Previously provided to the City of Rochester in the initial submittal of the Site Plan Application for the TLR-III South Area in October 2017.

WAIVER

This waiver request is for Article III, Section 8 (C)(1) of the Regulations. The impacted wetlands and buffer areas that are the subject of this waiver include approximately 0.26 acres of jurisdictional wetland area impact and 0.97 acres of impacted wetland buffer area, as shown on Figure 6. This wetland area and associated buffer, as defined in Ordinance Chapter 42.12(c), will be disturbed, in whole or in part, as discussed in the NHDES Wetland Permit Application (i.e., application for a dredge and fill permit as required by Ordinance Chapter 42.12(j)), approved on June 29, 2018. WMNH's proposed expansion of the CSA is needed to allow for continued operation of the facility, which supports the larger TREE Facility. The TREE Facility provides reliable and environmentally safe waste disposal for the citizens of the City and the State of New Hampshire.

The impacted wetland areas will be mitigated through land preservation as discussed with the NHDES Wetlands Bureau, US Army Corps, USEPA, and the City's Conservation Commission. Specifically, WMNH placed conservation restrictions on approximately 49 acres of Tax Map 267, Lot 62. This lot is located on the north side of the Cocheco River, a New Hampshire Rivers Management and Protection Program "Designated River," and is adjacent to approximately 35.1 acres (Tax Map 263, Lot 63) also protected under a conservation easement held by the Southeast Land Trust. These protected lands also abut the City of Rochester owned lands and are in the vicinity of other conservation lands along the river corridor.

We trust that the above information fully addresses the City's need for a waiver and Conditional Use request from COD requirements for this project. Should you require additional information, please contact me at (603) 330-2142 or mdevine@wm.com.

Sincerely,

WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.



Mark R. DeVine
Construction Project Manager

Enclosures Wetland Impact Figure

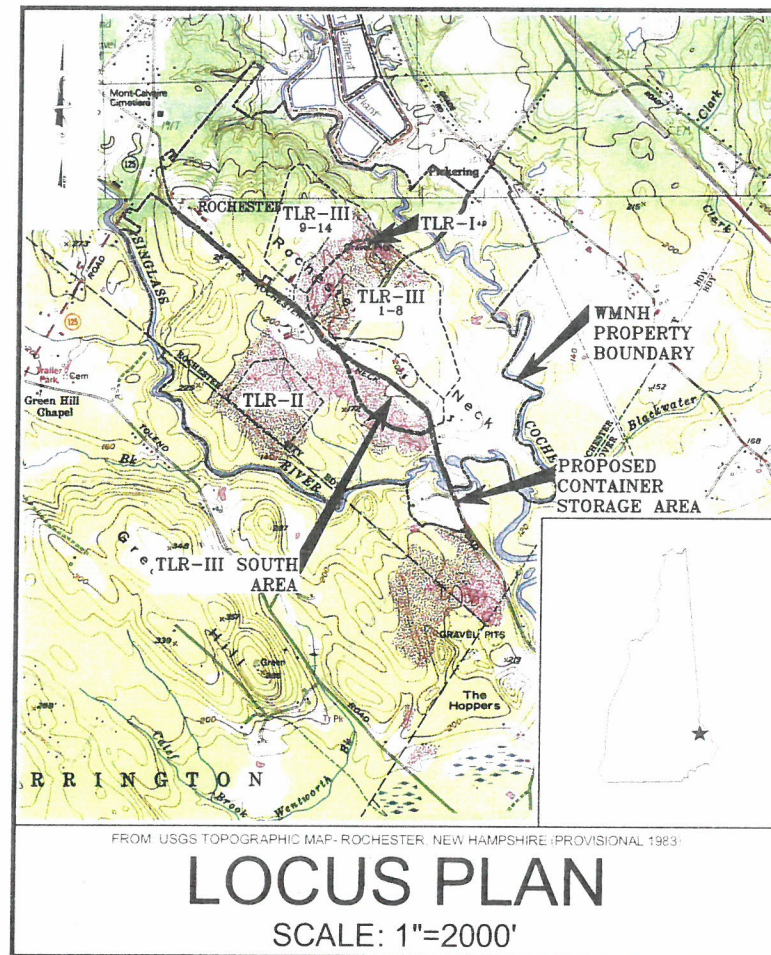
Copies to: Bob Magnusson, WMNH
 Eric Steinhauser, Sanborn Head

CONTAINER STORAGE AREA

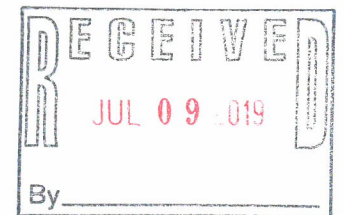
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.

ROCHESTER, NEW HAMPSHIRE

JULY 2019



| SHEET NO. | TITLE |
|-----------|---|
| 1 | NOTES, LEGEND, AND ABBREVIATIONS |
| 2 | OVERALL SITE AND ZONING PLAN |
| 3 | LOT PLAN |
| 4 | EXISTING CONDITIONS PLAN |
| 5 | PROPOSED SITE PLAN |
| 6-7 | STORMWATER MANAGEMENT DETAILS |
| 8 | EROSION & SEDIMENTATION CONTROL DETAILS |



| REVISION TABLE | | | |
|----------------|------|-------------|----|
| NO. | DATE | DESCRIPTION | BY |
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FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867, (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

THE DEVELOPMENT DEPICTED IN THESE DRAWINGS MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW, INCLUDING ALL PERTINENT PROVISIONS OF THE "CITY OF ROCHESTER SITE PLAN REGULATIONS", UNLESS OTHERWISE WAIVED.

PREPARED FOR:



WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

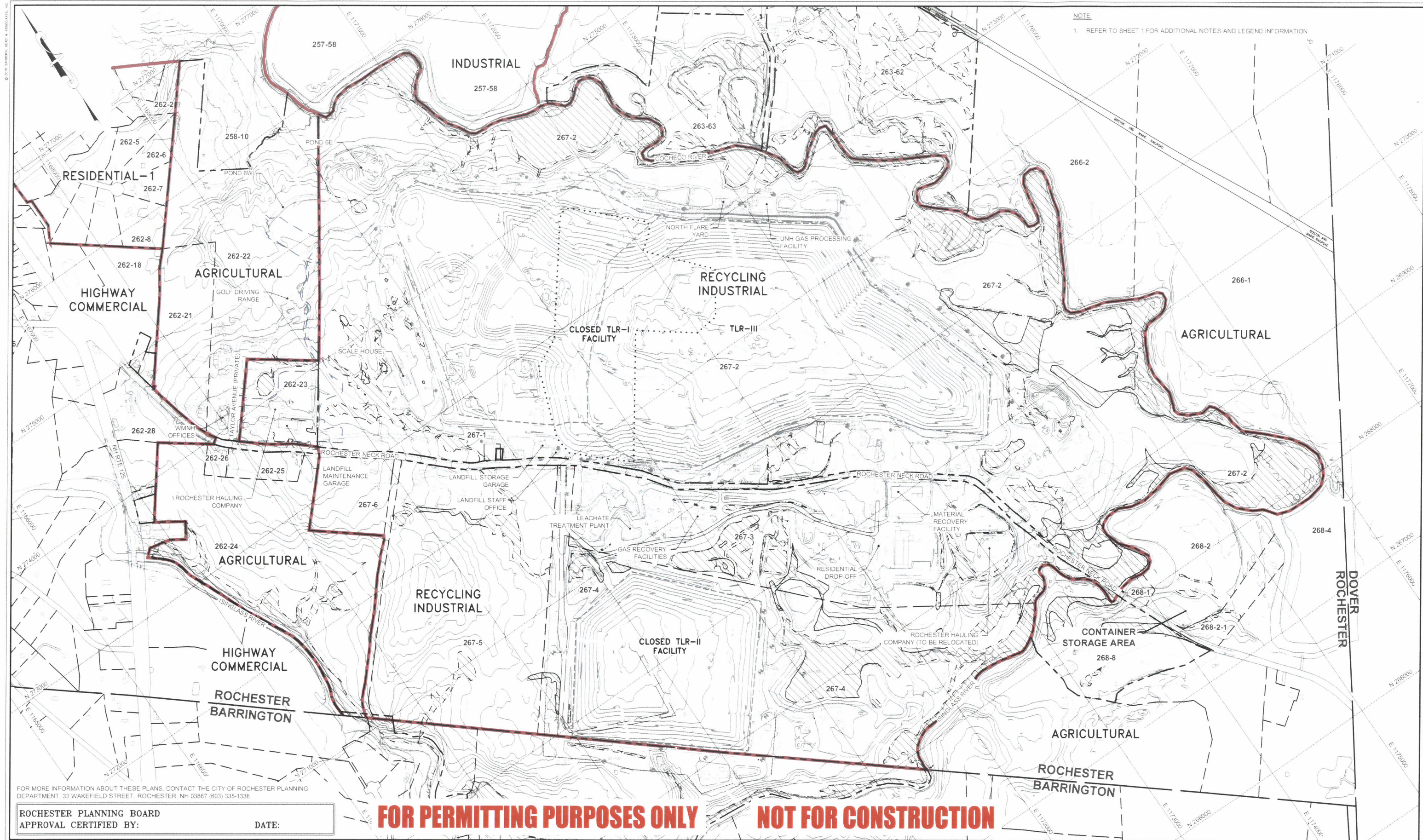
PREPARED BY:



20 FOUNDRY STREET, CONCORD, NEW HAMPSHIRE 03301
(603) 229-1900 FAX (603) 229-1919



1 OF 8

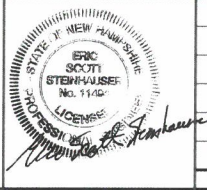


FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

SANBORN HEAD



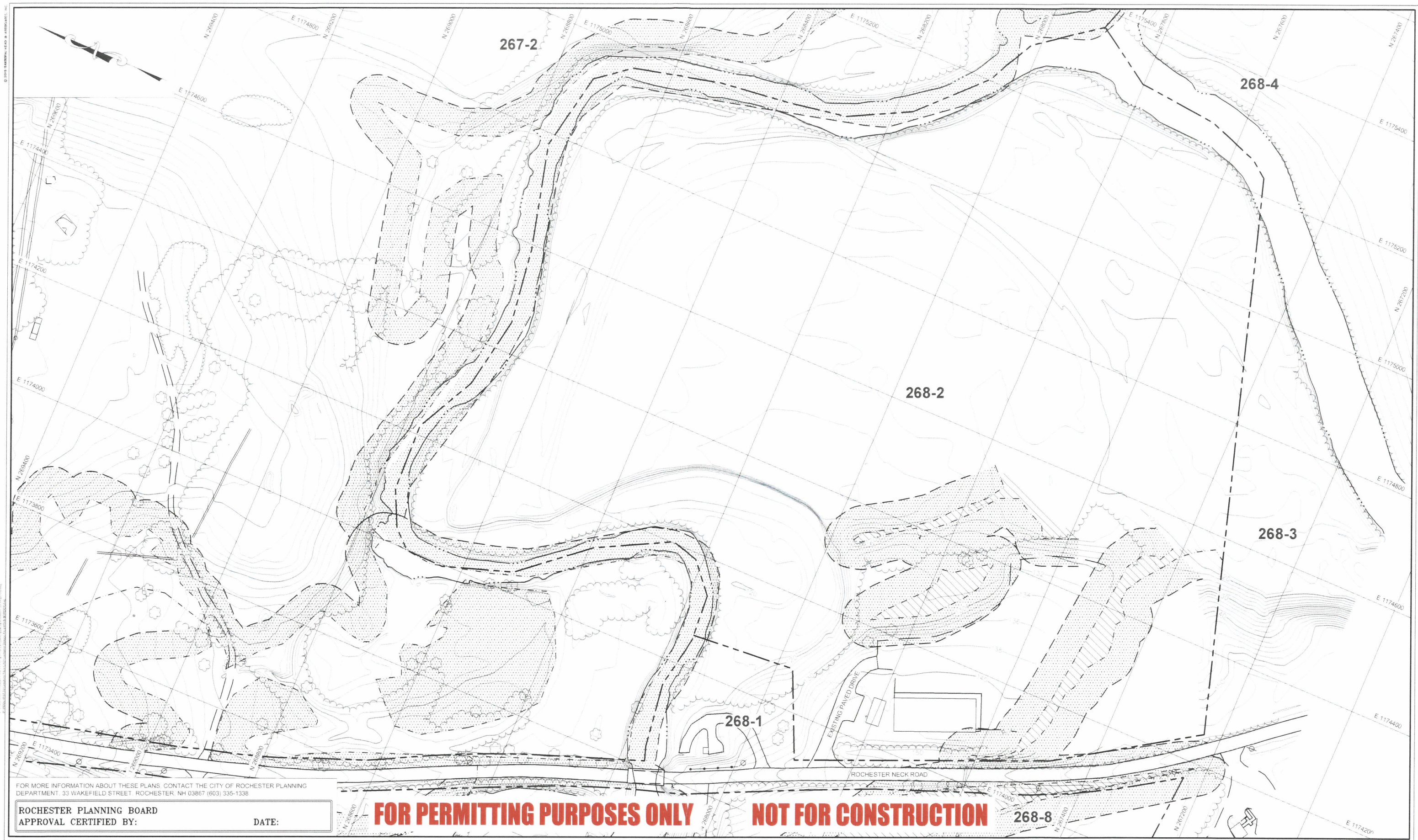
| NO. | DATE | DESCRIPTION | BY |
|-----|------|----------------------------------|----|
| 1 | 7/15 | SUBMITTED FOR SITE PLAN APPROVAL | |
| | | | |
| | | | |
| | | | |

DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED
REVIEWED BY: L. DAMIANO
PROJECT MGR: L. DAMIANO
PIC: E. STEINHAUSER
DATE: JULY 2019

CONTAINER STORAGE AREA
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

OVERALL SITE AND ZONING PLAN

PROJECT NUMBER
4597.00
SHEET NUMBER
2 OF 8



FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

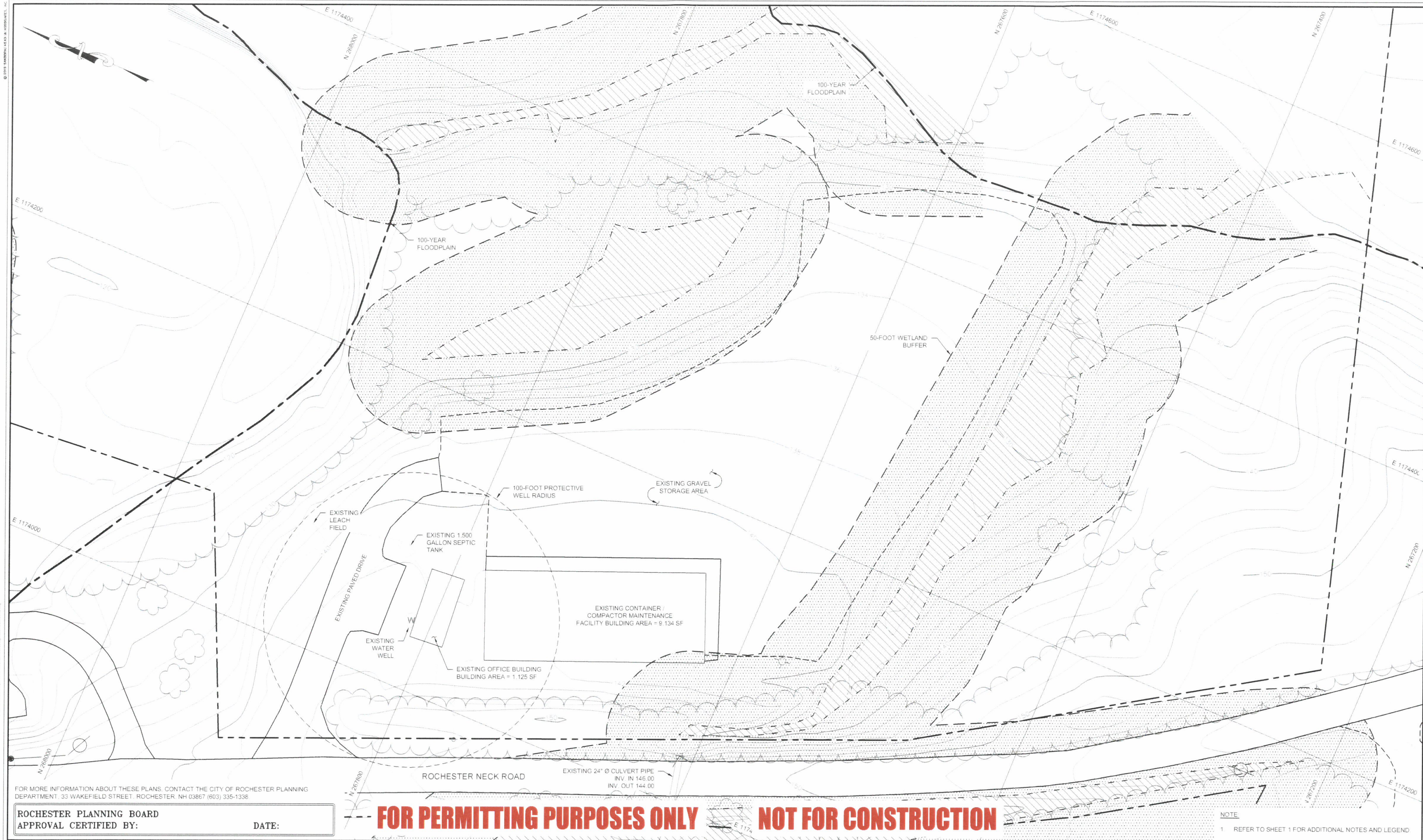
FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



| NO. | DATE | DESCRIPTION | BY |
|-----|------|----------------------------------|----|
| 1 | 7/19 | SUBMITTED FOR SITE PLAN APPROVAL | |

DRAWN BY: S. SANTIAGO
DESIGNED BY: S. SANTIAGO
REVIEWED BY: L. DAMIANO
PROJECT MGR: L. DAMIANO
PIC: E. STEINHAUSER
DATE: JULY 2019

| | |
|---|---------------------------|
| CONTAINER STORAGE AREA WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. ROCHESTER, NEW HAMPSHIRE | PROJECT NUMBER 4597.00 |
| | SHEET NUMBER 3 OF 8 |



FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338

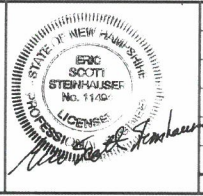
ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

FOR PERMITTING PURPOSES ONLY

NOT FOR CONSTRUCTION

NOTE:
1. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND LEGEND.

SANBORN HEAD



| NO. | DATE | DESCRIPTION | BY |
|-----|------|----------------------------------|----|
| 1 | 7/19 | SUBMITTED FOR SITE PLAN APPROVAL | |

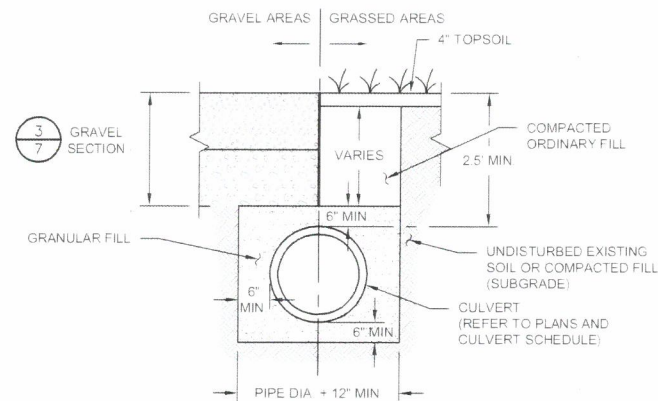
DRAWN BY: S. SANTIAGO
DESIGNED BY: S. SANTIAGO
REVIEWED BY: L. DAMIANO
PROJECT MGR: L. DAMIANO
PIC: E. STEINHAUSER
DATE: JULY 2019

CONTAINER STORAGE AREA
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

EXISTING CONDITIONS PLAN

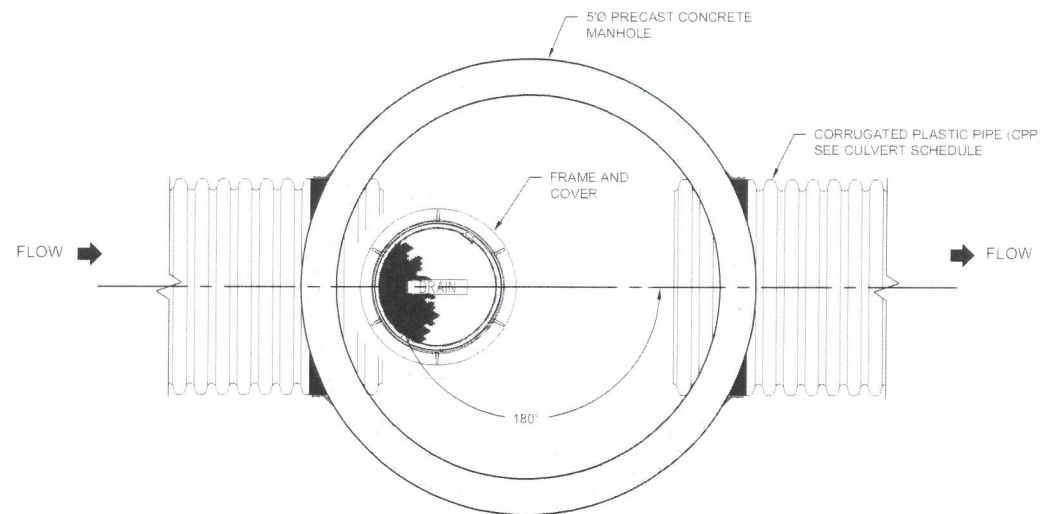
PROJECT NUMBER
4597.00
SHEET NUMBER
4 OF 8

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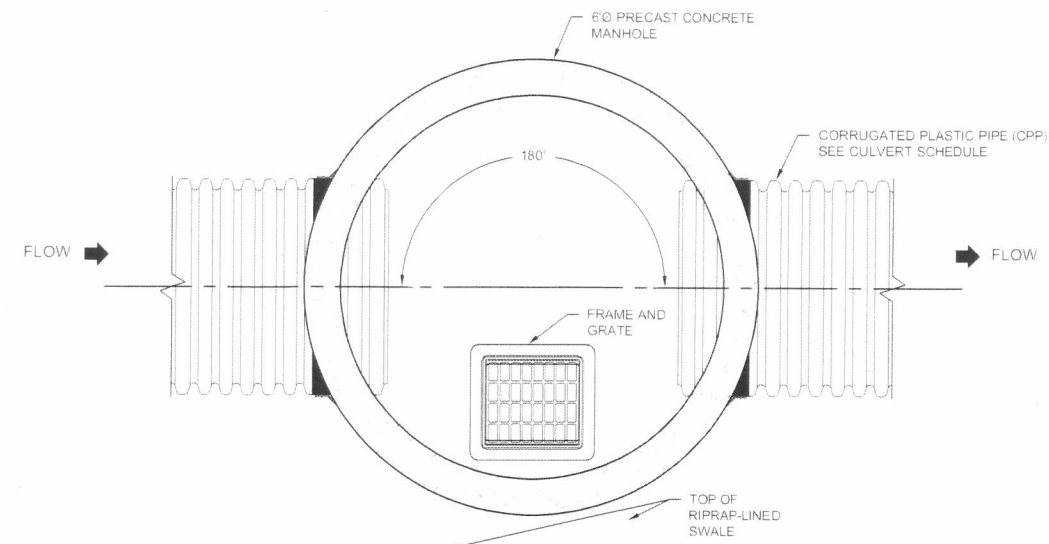


CULVERT SECTION

NOT TO SCALE



PLAN VIEW



PLAN VIEW

CULVERT SCHEDULE

| CULVERT | TYPE | DIAMETER (IN) | LENGTH (FT) | SLOPE (FT/FT) | INLET END | OUTLET END | INV. IN (FT) | INV. OUT (FT) |
|---------|------|---------------|-------------|---------------|-----------|------------|--------------|---------------|
| C-1 | CPP | 36 | 173 | 0.0371 | FES | DMH-1 | 136.25 | 129.85 |
| C-2 | CPP | 36 | 173 | 0.0371 | DMH-1 | CB-1 | 129.80 | 123.40 |
| C-3 | CPP | 4 | 33 | 0.0200 | PROJ | CB-1 | 129.00 | 126.34 |
| C-4 | CPP | 42 | 36 | 0.0050 | CB-1 | PROJ | 123.30 | 123.12 |

NOTES

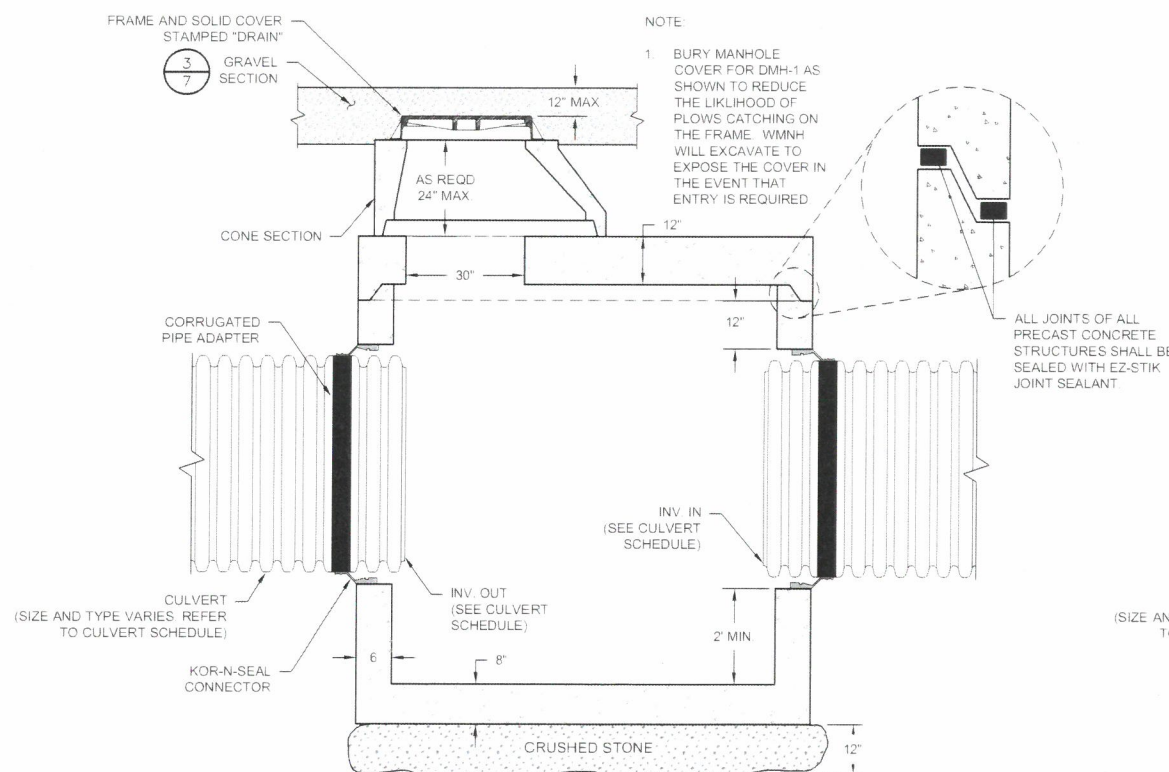
- THE PROPOSED INVERT ELEVATIONS SHOWN IN THE SCHEDULE ABOVE REPRESENT DESIGN ELEVATIONS THAT ARE BASED ON DESIGN OR EXISTING SWALE INVERT ELEVATIONS INTERPOLATED FROM AERIAL TOPOGRAPHY. THE INTENT IS THAT THE CULVERTS WILL BE INSTALLED WITH THE PROPOSED SLOPE AND ELEVATIONS AT THE INVERTS OF CORRESPONDING EXISTING SWALES OR CHANNELS. IF THE ACTUAL SWALE INVERT ELEVATIONS DIFFER SIGNIFICANTLY DURING INSTALLATION FROM THOSE INDICATED, OBTAIN APPROVAL FROM ENGINEER PRIOR TO BACKFILLING OVER THE PIPES. GRADES SHALL BE CONFIRMED FOR SHOP DRAWING APPROVAL BY ENGINEER.
- THE LIST BELOW CONTAINS ABBREVIATIONS SHOWN SPECIFICALLY IN THIS SCHEDULE.
CB=CATCH BASIN
CPP = CORRUGATED POLYETHYLENE PIPE
PROJ =PROJECTING
FES = FLARED END SECTION
DMH = DRAIN MANHOLE

DRAINAGE STRUCTURE SCHEDULE

| STRUCTURE | SIZE | RIM ELEV. | INLET | OUTLET |
|-----------|------|-----------|---------------|--------|
| CB-1 | 6' | 129.15 | C-2/C-3/SWALE | C-4 |
| DMH-1 | 5' | 138.55 | C-1 | C-2 |

NOTES

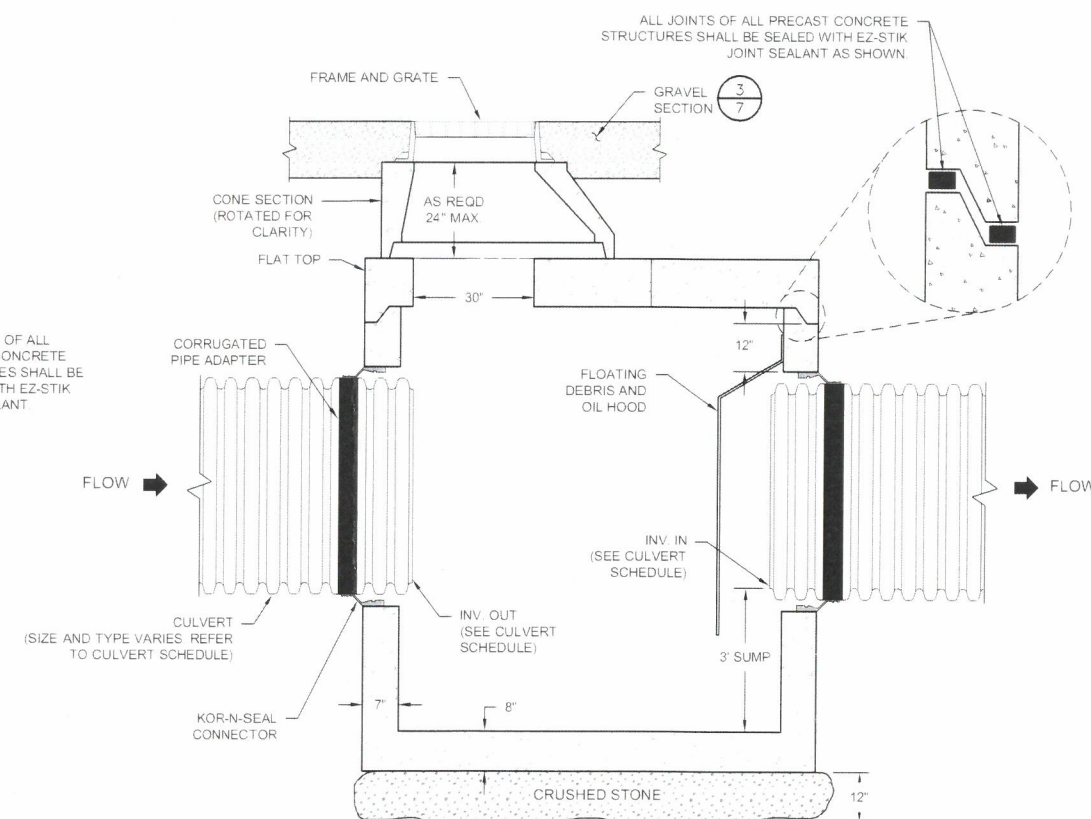
- PROVIDE FRAME AND SOLID COVER ON DRAIN MANHOLES AND FRAME AND GRATE ON CATCH BASINS. SEE DRAINAGE STRUCTURE PARTS LIST.
- WALL THICKNESSES SHOWN ARE FOR REFERENCE ONLY. ACTUAL WALL THICKNESSES SHALL BE DETERMINED BY THE PRECAST CONCRETE MANUFACTURER AT TIME OF CONSTRUCTION.



ELEVATION VIEW

DRAINAGE MANHOLE DMH-1

NOT TO SCALE



ELEVATION VIEW

CATCH BASIN CB-1

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1336

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

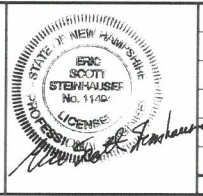
DATE:

FOR PERMITTING PURPOSES ONLY

NOT FOR CONSTRUCTION

SANBORN HEAD

SCALE: AS NOTED



| NO. | DATE | DESCRIPTION | BY |
|-----|------|----------------------------------|----|
| 1 | 7/19 | SUBMITTED FOR SITE PLAN APPROVAL | |

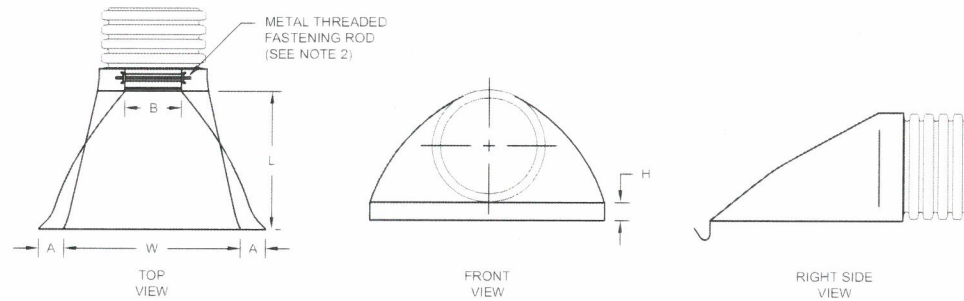
DRAWN BY: S. SANTIAGO
DESIGNED BY: S. SANTIAGO
REVIEWED BY: L. DAMIANO
PROJECT MGR: L. DAMIANO
P.C.: E. STEINHAUSER
DATE: JULY 2019

CONTAINER STORAGE AREA
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

STORMWATER MANAGEMENT DETAILS

PROJECT NUMBER
4597.00
SHEET NUMBER
6 OF 8

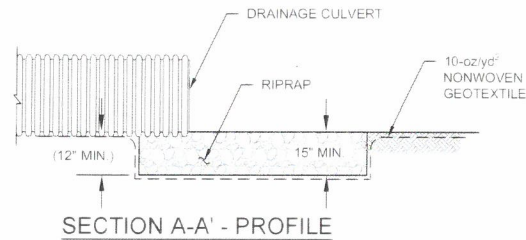
| HDPE FLARED END SECTION DIMENSIONS TABLE | | | | | |
|--|------------|------------|------------|------------|------------|
| DIAMETER (INCHES) | A (INCHES) | B (INCHES) | H (INCHES) | L (INCHES) | W (INCHES) |
| 36 | 7.5 | 25.0 | 8.6 | 58.0 | 63.0 |



FLARED END SECTION

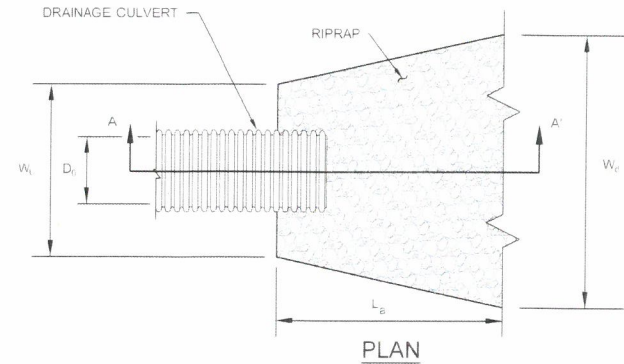
1
NOT TO SCALE

- NOTES
- 1 THE INVERT OF THE PIPE AND THE END SECTION SHALL BE INSTALLED AT THE SAME ELEVATION
 - 2 METAL THREADED FASTENING ROD SHALL BE STAINLESS STEEL



WHERE

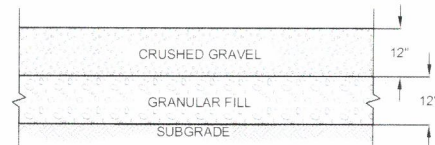
D_c = CHANNEL DEPTH
 W_u = UPGRADIENT APRON WIDTH
 L_a = APRON LENGTH
 W_d = DOWNGRADIENT APRON WIDTH
 d_{50} = REQUIRED SIZE OF 50% (BY WEIGHT) OF THE RIPRAP STONE
 h = MINIMUM RIPRAP BLANKET THICKNESS



| RIPRAP OUTLET PROTECTION APRON SCHEDULE | | | | | | |
|---|------------|------------|------------|------------|---------------|----------|
| APRON | D_c (ft) | W_u (ft) | L_a (ft) | W_d (ft) | d_{50} (in) | h (in) |
| A-1 | 3.50 | 10.50 | 20 | 23.50 | 8 | 15 |

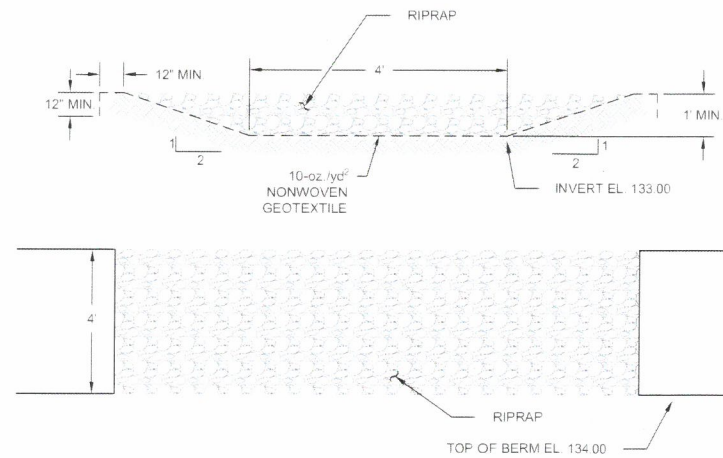
OUTLET PROTECTION APRON DETAIL

2
NOT TO SCALE



GRAVEL SECTION

3
NOT TO SCALE



SPILLWAY DETAIL

4
NOT TO SCALE

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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

FOR PERMITTING PURPOSES ONLY

NOT FOR CONSTRUCTION

SANBORN HEAD

SCALE: AS NOTED



| NO. | DATE | DESCRIPTION | BY |
|-----|------|----------------------------------|----|
| 1 | 7/19 | SUBMITTED FOR SITE PLAN APPROVAL | |

DRAWN BY: S. SANTIAGO
DESIGNED BY: S. SANTIAGO
REVIEWED BY: L. DAMIANO
PROJECT MGR: L. DAMIANO
PIC: E. STEINHAUSER
DATE: JULY 2019

CONTAINER STORAGE AREA
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

STORMWATER MANAGEMENT DETAILS

PROJECT NUMBER
4597.00

SHEET NUMBER
7 OF 8

GENERAL NOTES

- CONDUCT EARTHWORK ACTIVITIES SO THAT THE SMALLEST PRACTICAL AREA IS EXPOSED AT ANY ONE TIME PRIOR TO FINAL GRADING AND STABILIZING WITH SEED AND MULCH. UNSTABILIZED AREA NOT WITHIN THE LANDFILL FOOTPRINT SHALL BE LIMITED TO NOT MORE THAN 2 CONTIGUOUS ACRES AT ANY ONE TIME. THE TERM "STABLE" IS DEFINED AS MEETING ONE OF THE FOLLOWING CRITERIA:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE RIPRAP HAS BEEN INSTALLED. OR
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- APPLY SEED, LIME, FERTILIZER, AND HAY MULCH TO DISTURBED AREAS, NEWLY-PLACED FILL SLOPES, AND GRASS-LINED SWALES WITHIN 7 DAYS OF ACHIEVING FINAL GRADE. ALSO APPLY SEED AND HAY MULCH TO THOSE AREAS OUTSIDE OF THE LANDFILL FOOTPRINT WHICH WILL NOT BE RE-DISTURBED FOR A PERIOD OF 30 DAYS OR MORE. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE.
- EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS AND AT THE DISCRETION OF THE ENGINEER AND OWNER. FILTER LOGS SHALL BE INSTALLED ALONG THE CONTOUR AND TOED UPSLOPE AND ARE TO BE MAINTAINED AND CLEANED UNTIL VEGETATIVE COVER IS ESTABLISHED.
- ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM EVENT WHICH PRODUCES 0.25 INCHES OF RAINFALL. ALL DAMAGED EROSION CONTROL BARRIERS SHALL BE REPAIRED PROMPTLY.
- TRACK UP AND DOWN REGRADED SLOPES (GROUSER TRACKS PERPENDICULAR TO THE SLOPE) WITH A BULLDOZER TO LIMIT EROSION.
- REMOVE SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITY AS NEEDED FROM DETENTION PONDS TO MAINTAIN STORAGE CAPACITY AND AT THE DIRECTION OF THE ENGINEER OR OWNER. DISPOSE SEDIMENT IN A SECURE LOCATION SO AS TO PREVENT SILTATION OF NATURAL WATERWAYS.
- REMOVE SEDIMENT BUILD UP FROM BEHIND EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES UNTIL FULL ESTABLISHMENT OF PERMANENT GROUND COVER.
- DITCHES, SWALES, AND PONDS SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING OF THE SITE) AND STABILIZED BEFORE RUNOFF IS DIRECTED TO THEM.
- CONDUCT SOIL BORROW EXCAVATION ACTIVITIES IN SUCH A MANNER THAT ALL RUNOFF FROM THE EXCAVATION AREAS IS CONTAINED WITHIN THE EXCAVATION.
- THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER Agr 3800 RELATIVE TO INVASIVE SPECIES.

SPECIFICATIONS

- TOPSOIL SHALL BE FERTILE SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, FREE FROM ROOTS, STICKS, PEAT, WEEDS, AND SOD. IT SHALL NOT CONTAIN MATERIAL HARMFUL TO PLANT GROWTH.
- FERTILIZER (10-10-10) SHALL BE LOW PHOSPHATE AND SLOW RELEASE NITROGEN AND APPLIED UNIFORMLY OVER THE DISTURBED AREA AT A RATE OF TWENTY (20) POUNDS PER 1,000 SQUARE FEET (APPROXIMATELY 875 POUNDS PER ACRE).
- GRASS SEED SHALL BE FROM THE SAME OR PREVIOUS YEAR'S CROP. EACH VARIETY OF SEED SHALL HAVE A PERCENTAGE OF GERMINATION NOT LESS THAN NINETY (90), A PERCENTAGE OF PURITY NOT LESS THAN EIGHTY-FIVE (85), AND SHALL HAVE NOT MORE THAN ONE PERCENT (1%) WEED CONTENT.
- MULCH SHALL CONSIST OF DRY HAY OR STRAW AND BE FREE OF NOXIOUS WEEDS OR MOLD.
- APPLICATION OF FERTILIZER, LIME, SEED, AND MULCH SHALL ONLY BE PERFORMED DURING THOSE PERIODS WITHIN THE SEASONS WHICH ARE NORMAL FOR SUCH WORK AS DETERMINED BY THE WEATHER AND LOCALLY ACCEPTED PRACTICE, AND AS APPROVED BY THE ENGINEER.
- ANY PART OF THE SEEDED AREA WHICH FAILS TO YIELD AN ACCEPTABLE STAND OF GRASS AS DETERMINED BY THE ENGINEER OR OWNER SHALL BE RETREATED WITH ADDITIONAL SEED, FERTILIZER, AND MULCH.

| GENERAL SEED MIX | | |
|---------------------|-----------------|--------------------------|
| MIXTURE | POUNDS PER ACRE | POUNDS PER 1,000 SQ. FT. |
| TALL FESCUE | 20 | 0.45 |
| CREEPING RED FESCUE | 20 | 0.45 |
| BIRDSFOOT TREFOIL | 8 | 0.20 |
| TOTAL | 48 | 1.10 |

NOTE: GENERAL SEED MIXTURE TO BE APPLIED TO AREAS OTHERWISE NOT SPECIFIED TO BE SEEDED WITH ANOTHER MIX.

WINTER NOTES

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING. ELSEWHERE, THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AND
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

TEMPORARY EROSION CONTROL MEASURES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
- EROSION CONTROL STRUCTURES SHALL BE INSTALLED ALONG THE EXISTING CONTOUR IN LOCATIONS SHOWN ON THE PLANS AND ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE BEEN ADEQUATELY STABILIZED.
- ALL DISTURBED AREAS SHALL BE FINE GRADED BEFORE BEING SEEDED AND MULCHED.
- FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL STRUCTURES ARE TO BE REMOVED AND ACCUMULATED SEDIMENT DISPOSED OF IN A SECURE LOCATION.
- EROSION CONTROL STRUCTURES SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

FOR PERMITTING PURPOSES ONLY

NOT FOR CONSTRUCTION



SCALE: AS NOTED



| NO. | DATE | DESCRIPTION | BY |
|-----|------|----------------------------------|----|
| 1 | 7/19 | SUBMITTED FOR SITE PLAN APPROVAL | |

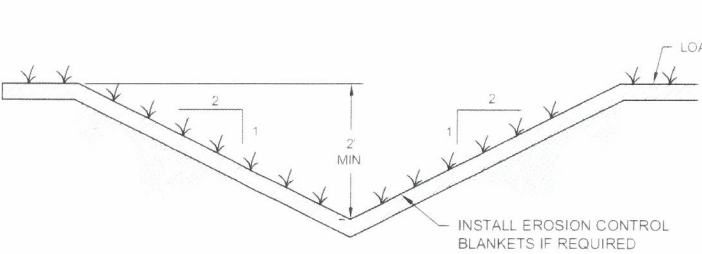
DRAWN BY: S. SANTIAGO
DESIGNED BY: S. SANTIAGO
REVIEWED BY: L. DAMIANO
PROJECT MGR: L. DAMIANO
P.I.C.: E. STEINHAUSER
DATE: JULY 2019

CONTAINER STORAGE AREA
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROJECT NUMBER
4597.00

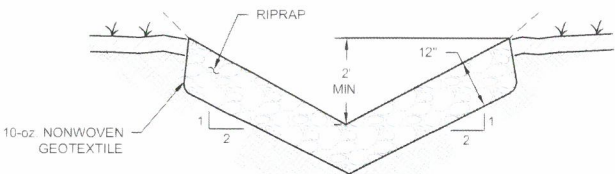
EROSION & SEDIMENTATION
CONTROL DETAILS

SHEET NUMBER
8 OF 8



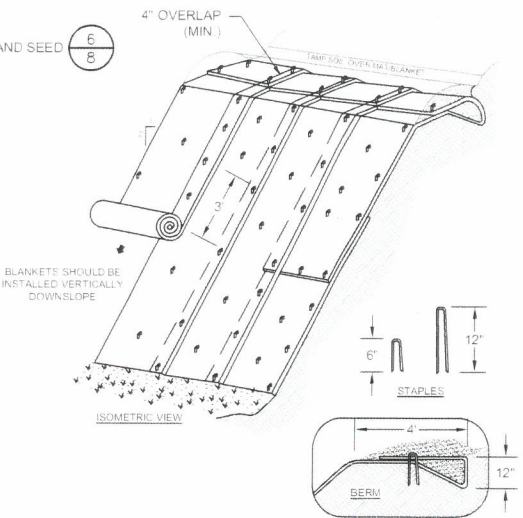
GRASS-LINED SWALE

NOT TO SCALE



RIPRAP-LINED SWALE SECTION

NOT TO SCALE

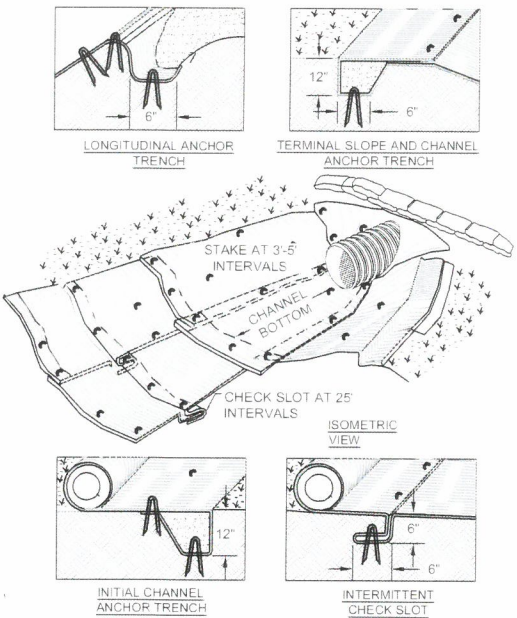


SLOPE INSTALLATION

SLOPE INSTALLATION NOTES

- DIMENSIONS GIVEN IN THE DRAWINGS ARE EXAMPLES. MATERIAL SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BANKETS SHALL HAVE GOOD SOIL CONTACT.
- APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

SOURCE: "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION," REVISION 1.0, DECEMBER 2008, PAGES 74 AND 75.



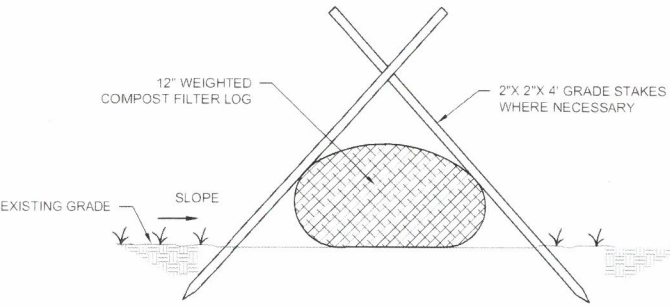
CHANNEL INSTALLATION

CHANNEL INSTALLATION NOTES

- DIMENSIONS GIVEN IN THE DRAWINGS ARE EXAMPLES. MATERIAL SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURER'S SPECIFICATIONS.
- STAKING OR STAPLING LAYOUT PER MANUFACTURER'S SPECIFICATIONS.

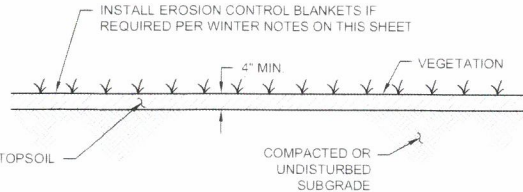
EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE



FILTER LOG

NOT TO SCALE



LOAM AND SEED

NOT TO SCALE