



October 6, 2017

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

TURNKEY RECYCLING & ENVIRONMENTAL ENTERPRISE

30 Rochester Neck Road
P.O. Box 7065
Rochester, NH 03839
(603) 330-2197
(603) 330-2130 Fax



Re: Letter of Intent – Application for Site Plan Approval
TLR-III Refuse Disposal Facility – South Area
Turnkey Recycling and Environmental Enterprise
Rochester, New Hampshire

Dear Mr. Campbell:

Waste Management of New Hampshire, Inc. (WMNH) is proposing to expand the Turnkey Recycling & Environmental Enterprise (TREE) Facility by constructing a new disposal area (i.e., TLR-III Refuse Disposal Facility – South Area, hereafter referred to as the TLR-III South Area). The expanded disposal area will provide the TREE Facility with an additional 10 years of operating life. The expansion area was selected by WMNH after reviewing several development options at our facility. The overall scope of the TLR-III South Area project involves multiple components, including the following, which are part of this Site Plan Application: (i) developing the TLR-III South Area (i.e., Phases 15 – 17); (ii) realigning a ¾-mile portion of Rochester Neck Road; (iii) relocating the Residential Drop-Off Facility; (iv) modifying the Isinglass River Park; and (v) expanding the Container Storage Area. Each of these individual projects are critical to the overall operation of the TREE Facility. The TLR-III South Area expansion project was previously reviewed with the Rochester City Manager and City Council. WMNH provided the City of Rochester a Preliminary Site Plan Application on March 8, 2017 for the TLR-III South Area project. WMNH attended and presented this project at the City of Rochester Planning Board Meeting on April 3, 2017.

A solid waste permit application for the TLR-III South Area project was submitted to the New Hampshire Department of Environmental Services (NHDES) on May 19, 2017. In addition, a wetland permit application and an Alteration of Terrain application for the project components was submitted to the NHDES on May 19, 2017. The City of Rochester was provided a copy of each of these applications.

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

Applicant's Name: Waste Management of New Hampshire, Inc. (property owner)

Property Locations: ■ TLR-III South Area:
90 Rochester Neck Road, Tax Map 267 Lot 2

From everyday collection to environmental protection, Think Green® Think Waste Management.

- Rochester Neck Road
- Residential Drop-Off Facility:
Isinglass Drive, Tax Map 267 Lot 3
- Isinglass River Park:
Rochester Neck Road, Tax Map 267 Lot 2
- Container Storage Area:
214 Rochester Neck Road, Tax Map 268 Lot 2

Size and Use:

- TLR-III South Area: 58.6-acre disposal site.
- Rochester Neck Road: ~3-mile long, two-lane, 30 mile-per-hour City road.
- Residential Drop-Off Facility: ~3-acre public recycling area.
- Isinglass River Park: ~¼-acre public park providing access to adjacent trails and the Isinglass River.
- Container Storage Area: ~2-acre area for recycling and waste container storage.

Proposed Use:

WMNH is proposing to expand its existing disposal operation so that the TREE Facility may continue to provide the residents of the City of Rochester and New Hampshire with an environmentally protective option for managing municipal solid waste. The proposed 58.6-acre lateral landfill expansion will require realigning a ¾-mile portion of Rochester Neck Road, which in turn requires relocating the existing Residential Drop-Off Facility and modifying the existing Isinglass River Park. In addition, WMNH is proposing to expand its Container Storage Area to allow for a single location for storing its containers.

Previous Use:

The proposed TLR-III South Area includes former residences that are no longer occupied and are not of historic significance. Except for portions of the area that will be developed for the expanded disposal site, the project preserves other previous uses by either relocating their function elsewhere on the property (i.e., Rochester Neck Road, Residential Drop-Off Facility, and the Container Storage Area), or modifying the feature so that the previous use may be continued (i.e., Isinglass River Park). Additionally, there are several other TREE Facility operations, including: (i) the Material Recovery Facility; (ii) the Rochester Hauling Company; (iii) Landfill Gas to Energy Facilities; and (iv) the Leachate Treatment Plant. The landfill gas and leachate treatment facilities will not be impacted by this project. Relocation of the Material Recovery Facility and the Rochester Hauling Company will be subjects of future Site Plan applications.

Existing Conditions: As indicated above, the TLR-III South Area project development includes parcels that currently support other TREE Facility operations. WMNH owns the properties encumbered by and abutting the parcels. Each of the individual project component sites are located along Rochester Neck Road. The realigned Rochester Neck Road will impact the existing Rochester Hauling Company location, Residential Drop-Off Facility, the Isinglass River Park, and several stormwater management features. Construction of the TLR-III South Area will impact the Materials Recovery Facility and some wetland areas. These existing features will either be relocated, modified, or mitigated as described in this Site Plan Application, or will be relocated as part of a separate future Site Plan Application. The proposed location for the Residential Drop-Off Facility was last used as a parking area for the former location of the Rochester Hauling Company. The area associated with the expanded Container Storage Area consists of a poor-quality drainage feature and undisturbed land.

WMNH does not anticipate a change in traffic on Rochester Neck Road because of this project. WMNH is not proposing to increase the number of vehicles at this location. Other nearby uses on Rochester Neck Road includes the aggregate operations for Pike Industries and Brox.

Resulting Employees: The proposed project will allow WMNH to maintain its current level of staffing for the life of the proposed disposal area. WMNH is not proposing to increase employees as a result of this project.

- Hours of Operation:**
- TLR-III South Area – 6:30 AM to 3:30 PM, Mon through Fri, 7 AM to 10:00 AM Sat.
 - Rochester Neck Road – 24 hours, 7 days per week.
 - Residential Drop-Off Facility – 8 AM to 3 PM, Mon, Wed, Fri, and Sat.
 - Isinglass River Park – Dawn to Dusk, 7 days a week.
 - Container Storage Area – 7 AM to 5PM, Mon through Fri.

Off-street Parking: Three parking spaces will be provided for employees at the Residential Drop-Off Area. Six parking spaces will be re-established at the Isinglass River Park. Parking is not needed for Rochester Neck Road or the TLR-III South Disposal Area, and no additional parking is required for the Container Storage Area.

**Proposed Site
Changes:**

The proposed development involves the following:

- The TLR-III South Area project consists of constructing a 58.6-acre, NHDES-approved, lined landfill over land that was occupied by former residences, the Materials Recovery Facility, and Rochester Neck Road. To allow for the proposed construction of the TLR-III South Area, Rochester Neck Road will need to be realigned (i.e., shifted to the southeast) and other site operations and features will need to be relocated or modified (i.e., Residential Drop-Off Facility, Isinglass River Park, and WMNH's Container Storage Area).
- Realigning a ¾-mile portion of Rochester Neck Road allows for the development of the TLR-III South Area. The road realignment will impact several existing WMNH operations, including the existing Residential Drop-Off Facility and the Rochester Hauling Company as well as the existing Isinglass River Park. The new road will be designed to applicable City and state standards. Following the road realignment and acceptance by the City, WMNH and the City will adjust the property lot lines to define the new property ownership and record the property transfers at the Strafford County Registry of Deeds.
- The Residential Drop-Off Facility is well-used by City residents, and will be relocated closer to Rochester Neck with this proposed development. The new location makes use of the paved parking area associated with the former location of the Rochester Hauling Company. The relocated Residential Drop-Off Facility will provide citizens with one defined location that includes the same recycling and disposal options as currently enjoyed, as well as a centralized leaf and yard waste management area.
- The entrance to the Isinglass River Park will be impacted by the realignment of Rochester Neck Road. Accordingly, a new park entrance will be constructed, and the layout of the existing park will be modified to maintain the park's function.
- The Container Storage Area will become the central repository for recycling and waste containers. At present, WMNH stores containers at numerous locations across the TREE Facility property. These containers are either in a queue to be refurbished or to be deployed to customers. The expansion of the disposal area and the associated relocation of the other TREE operations directly impacts the available areas for storing the containers. This project includes expanding the existing WMNH Container Storage Area to allow for a single location for storing containers versus having them at several locations on the TREE property.

Property Access: Access to the proposed TLR-III South Area will continue to be through WMNH's controlled entrance located off Rochester Neck Road, a section of road not impacted by the Rochester Neck Road realignment. Access to the Residential Drop-Off Facility will be located off Isinglass Drive, the same road used to access the former facility. No changes are proposed to the intersection of the Isinglass Drive and Rochester Neck Road. Access to the Isinglass River Park will continue to be located off Rochester Neck Road. Access to the Container Storage Area will not change.

Please contact me should you require additional information regarding this proposed development.

Sincerely,
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.



Anne Reichert, P.E.
Construction Project Manager

ESS/EAG:ess

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

Copies to: Bob Magnusson, WMNH
Timothy Reed, Sanborn Head



NONRESIDENTIAL SITE PLAN APPLICATION

City of Rochester, New Hampshire

[office use only. Check # _____ Amount \$ _____ Date paid _____]

Date: October 6, 2017 Is a conditional use needed? Yes: X No: _____ Unclear: _____

(If so, we encourage you to submit an application as soon as possible.)

Property information

Tax map #: 267 / 268; Lot #(s): 2&3 / 2&2-1; Zoning district: Recycling Industrial / Agricultural

Property address/location: 90 & 214 Rochester Neck Road and Isinglass Drive

Name of project (if applicable): TLR-III Refuse Disposal Facility – South Area

Size of site: 93.3 acres; overlay zoning district(s)? Conservation Overlay District

Property owner

Name (include name of individual): Waste Management of New Hampshire, Inc.

Mailing address: 30 Rochester Neck Road, Rochester, NH

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

Applicant/developer (if different from property owner)

Name (include name of individual): _____

Mailing address: _____

Telephone #: _____ Email: _____

Engineer/designer

Name (include name of individual): Sanborn, Head & Associates, Inc. (Eric S. Steinhauser,

P.E., CPESC, CPSWQ)

Mailing address: Sanborn, Head & Associates, Inc., 20 Foundry Street, Concord, NH 03301

Telephone #: (603) 415-6138 Fax #: (603) 415-1919

Email address: esteinhauser@sanbornhead.com Professional license #: 11494

Proposed activity (check all that apply)

New building(s): X Site development (other structures, parking, utilities, etc.): X

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

Describe proposed activity/use: Disposal area expansion that requires relocating/modifying other facilities and realigning a portion of Rochester Neck Road. See narrative in Application

Describe existing conditions/use (vacant land?): Variety of buildings and site features supporting operations at the TREE Facility

Utility information

City water? yes ☐ no ☒; How far is City water from the site? N/A

City sewer? yes ☐ no ☒; How far is City sewer from the site? N/A

If City water, what are the estimated total daily needs? 0 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? Stormwater is fully managed on site in a number of specifically designed conveyance, detention, and retentions systems. Ultimately, stormwater is discharged to wetland areas.

Building information

Type of building(s): There are several structures proposed. Some serve as equipment shelters, open-sided shelters for materials, or employee work space and storage.

Building height: See Drawings Finished floor elevation: See Drawings

Other information

parking spaces: existing: 6 total proposed: 3 new; Are there pertinent covenants? No
Number of cubic yards of earth being removed from the site approximately 1 million
Number of existing employees: N/A; number of proposed employees total: N/A
Check any that are proposed: variance ; special exception ; conditional use X
Wetlands: Is any fill proposed? Yes ; area to be filled: see Drawings; buffer impact? Yes

Proposed <u>post-development</u> disposition of site (should total 100%)		
	Square footage	% overall site
Building footprint(s) – give for each building	88,372 (see Table)	0.3
Parking and vehicle circulation	1,512,288	5.4
Planted/landscaped areas (excluding drainage)	6,150,860	21.9
Natural/undisturbed areas (excluding wetlands)	7,489,629	26.6
Wetlands	3,235,297	11.5
Other – drainage structures, outside storage, etc.	9,636,742	34.3

Table Notes:

1. Wetland area should be considered approximate. WMNH owns over 1,200 acres of land and not all wetlands have been surveyed by a wetlands scientist. Within the project area, wetland areas are represented by a compilation of information determined using existing aerial photography, soils information, USFWS National Wetland Inventory Maps, and delineations conducted by Barry H. Keith, NH CWS #087. Please refer to the Wetland Impact Figures attached to the Wetlands Waiver and Conditional Use Request letter enclosed in this application for more wetland information.
2. Planted/landscaped areas within the project parcel areas represent the total area not in current use, according to the parcel Current Use Assessment Plans, subtracted by building, parking/vehicle circulation, wetland, and other areas.
3. Natural/undisturbed areas within the project parcel areas represent the sum of the parcel areas subtracted by building, parking/vehicle circulation, planted/ landscaped, wetland, and other areas.
4. The TLR-III limit of waste containment area is considered “other.”

Comments

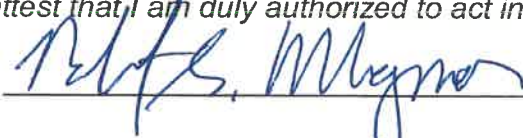
Please feel free to add any comments, additional information, or requests for waivers here:

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.

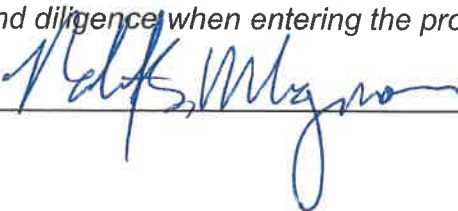
Signature of property owner: 
Date: 10/4/17

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: 10/4/17

**Building Areas for Post-Development Disposition of Site
Nonresidential Site Plan Application
TLR-III South Area
Waste Management of New Hampshire, Inc.**

Building	Pre-Development Area (square feet)	New Construction With This Project (square feet)	Post-Development Area (square feet)
Tax 267 Lot 3 (Residential Drop Off and Isinglass River Park)			
Equipment Storage Building	3,647		3,647
Equipment Storage Building	8,880		8,880
Office/Leachate Equipment Repair	917		917
Livestock Stable	1,300		1,300
Homeless Shelter	3,184		3,184
Equipment Storage Building	2,494		2,494
Emergency Generator Building	213		213
Leachate Loadout Canopy	1,077		1,077
Leachate Treatment Plant	4,593		4,593
SBR Equipment Building	1,802		1,802
UF Building	3,721		3,721
RO Building	3,869		3,869
Gas Recovery Facility I	3,753		3,753
Equipment Storage Building	363		363
Combustion Air Filter House for Enclosed Flare	222		222
Livestock Shed	39		39
10' x 14' CRT Storage Shed	1,800		1,800
Gas Recovery Facility II	6,090		6,090
Park Pavilion	141	-141	0
Livestock Shed	655	-655	0
Existing Scale House	90	-90	0
Material Recovery Facility (MRF)	27,315	-27,315	0
MRF Fire Suppression Building	181	-181	0
MRF Storage Area	4,462	-4,462	0
Equipment Storage Building	1,308	-1,308	0
Existing 8' x 10' Attendant Shed	80	-80	0
Existing RDO Canopies	803	-803	0
Existing C&D Storage Shed	1,997	-1,997	0
Rochester Hauling Company	27,905	-27,905	0
Proposed RDO Canopies		1,579	1,579
Proposed C&D Storage Shed		4,272	4,272
Proposed 20' x 20' Attendant Shed		400	400
Lot 267-3 Total Building Area	112,901	-58,686	54,215
Lot 268 Lot 2 (Container Storage Area)			
Container / Compactor Maint. Facility	9,134		9,134
Office Building	1,125		1,125
Lot 268-2 Total Building Area	10,259	0	10,259

Building Areas for Post-Development Disposition of Site
Nonresidential Site Plan Application
TLR-III South Area
Waste Management of New Hampshire, Inc.

Building	Pre-Development Area (square feet)	New Construction With This Project (square feet)	Post-Development Area (square feet)
Tax 267 Lot 2 (Landfill Area)			
Landfill Staff Office	1,947		1,947
Landfill Storage Garage	3,830		3,830
Scale House	877		877
UNH Gas Processing Facility	12,617		12,617
Triplex Pump Station	538		538
Compressor Shed (Phase 4)	130		130
Compressor Shed (Phase 6)	120		120
Compressor Shed (Phase 14)	216		216
Phase 1 Leachate Vault	278		278
Phase 2 Leachate Vault	251		251
Phase 3 Leachate Vault	319		319
Phase 4 Leachate Vault	324		324
Phase 5 Leachate Vault	309		309
Phase 6 Leachate Vault	309		309
Phase 7 Leachate Vault	309		309
Phase 8 Leachate Vault	309		309
Phase 9 Leachate Vault	135		135
Phase 10 Leachate Vault	135		135
Phase 11 Leachate Vault	135		135
Permitted Phase 12 Leachate Vault	135		135
Permitted Phase 13 Leachate Vault	135		135
Permitted Phase 14 Leachate Vault	135		135
House 1 (116 Rochester Neck Road)	2,178	-2,178	0
House 2 (124 Rochester Neck Road)	1,067	-1,067	0
Res. Barn 1 (136 Rochester Neck Road)	2,318	-2,318	0
House 3 (Rochester Neck Road)	2,696	-2,696	0
Res. Barn 2 (136 Rochester Neck Road)	408	-408	0
Res. Barn 3 (155 Rochester Neck Road)	570	-570	0
House 4 (155 Rochester Neck Road)	1,447	-1,447	0
House 5 (162 Rochester Neck Road)	2,459	-2,459	0
Phase 15 Leachate Vault		135	135
Phase 16 Leachate Vault		135	135
Phase 17 Leachate Vault		135	135
Lot 267-2 Total Building Area	36,636	-12,738	23,898
Total Building Area	159,796	-71,424	88,372



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30 Rochester Neck Road
P.O. Box 7065
Rochester, NH 03839
(603) 330-2197
(603) 330-2130 Fax

Re: Waiver and Conditional Use Request
Site Plan Application – TLR-III Refuse Disposal Facility – South Area
Turnkey Recycling and Environmental Enterprise
Rochester, New Hampshire

Dear Mr. Campbell:

Waste Management of New Hampshire, Inc. (WMNH) is requesting a waiver from the Site Plan Regulations (Regulations) and a Conditional Use Approval for the above referenced project with respect to wetland areas (classified as Conservation Overlay District by the City's Zoning Ordinance). The waiver and Conditional Use requests are 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, and the Conditional Use Approval is for portions of the project that comply with Chapter 42.12, Paragraph i.1.A of the City Zoning Ordinance (Ordinance). We note that the proposed wetland impacts have been 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, and the United States Environmental Protection Agency (USEPA). A Wetlands Permit Application for this project was submitted to the NHDES Wetlands Bureau on May 19, 2017. The City has been provided a copy of the Wetlands Permit Application, which includes additional information regarding wetland impacts for this proposed project. The Conservation Commission notified the NHDES that they had no comments on this application in correspondence dated September 25, 2017.

BACKGROUND

Section 8 Part (C)(1) of the Regulations requires that applicants adhere to the regulations of the Conservation Overlay District defined in the City's Chapter 42.12 of the Ordinance. For this project, the Conservation Overlay District includes jurisdictional wetland areas and the 50-foot buffer from the edge of the wetland, as defined in the Ordinance. The wetland impacts associated with the TLR-III Refuse Disposal Facility – South Area (TLR-III South Area) project are beyond the 75-foot buffer to the ordinary high water mark of the Cocheco and Isinglass Rivers, as specified in Chapter 42.12(c). Also, wetland areas associated with manmade stormwater conveyance and treatment features are exempt from the Ordinance [see Chapter 42.12(e)(2)].

From everyday collection to environmental protection, Think Green® Think Waste Management.

Within the proposed TLR-III South Area there are approximately 1.9 acres of isolated naturally occurring (i.e., jurisdictional) wetland areas. The enclosed Wetland Impact Figures illustrate the proposed impacts to wetland areas and wetland buffers. During construction, we anticipate that there may be minor temporary buffer impacts, which will be restored to the preconstruction condition at the completion of construction. The following summarizes the anticipated impacts to the jurisdictional wetland areas and buffers.

- Figure 2 depicts Area G and its associated buffer. As shown, Area G and its associated buffer is located entirely with the limits of the proposed TLR-III South Area project.
- Figure 3 includes several wetland areas to be disturbed. Areas EE, FF, and L are each less than one-half acre in size and are not vernal pools, and are therefore exempt from Conservation Overlay District restrictions [see Chapter 42.12(e)(1)]. Area M is partially disturbed by the TLR-III South Area project (see also Figure 5). Areas GG and HH are in the area currently used by WMNH for storage of construction materials. As noted in a May 3, 2017 letter to the NHDES, WMNH voluntarily reported some inadvertent filling in these areas. Once identified, WMNH ceased its operations in that area. Furthermore, WMNH included disturbing the area in and around Areas GG and HH in its Wetland Permit Application to correct this matter.
- Figure 4 depicts the proposed minor impact to Area W and its associated buffer.
- Figure 5 depicts Areas I and M and their associated buffers. As shown, Area I and its associated buffer is located entirely within the limits of the proposed TLR-III South Area project. Also depicted are wetland buffer impacts associated with Area M resulting from the realignment of Rochester Neck Road.
- Figure 6 includes Area CC and its buffer, all of which is located entirely with the limits of the proposed TLR-III South Area project (specifically the Container Storage Area Expansion component).

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 Areas G (Figure 2), I (Figure 5), M (Figures 3 and 5), W (Figure 4), CC (Figure 6), HH (Figure 3), and GG (Figure 3). These wetland areas and associated buffers, as defined in Ordinance Chapter 42.12(c), will be disturbed, in whole or in part, as discussed in the Wetland Permit Application (i.e., application for a dredge and fill permit as required by Ordinance Chapter 42.12(j)). For the wetland areas that are partially disturbed, the associated upland buffer is also impacted, and the resulting wetland buffer may be an upland area.

WMNH's proposed expansion of the Turnkey Recycling and Environmental Enterprise (TREE) Facility is needed to allow for continued operation of the facility that provides reliable and environmentally safe waste disposal for the citizens of the City and the State of New Hampshire. The TLR-III South Area development was selected based on an alternatives analysis, which is included in the Wetlands Permit Application. Disturbing the

aforementioned wetland areas and associated buffers is critical for the development of the TLR-III South Area project, which is the preferred development option based on the goals of limiting environmental impact and optimizing existing site infrastructure. 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 proposes to place 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) already 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.

CONDITIONAL USE REQUEST

As specified in Chapter 42.12(i), a conditional use approval may be granted by the Planning Board after proper public notice and public hearing to allow wetland impacts for the use of roads and other access ways, and drainage ways where evidence is submitted that no alternative location is available on the property and the conditions of Chapter 42.12(i)(A)(i) through (iv) have been met.

WMNH is requesting Conditional Use approval for the impacted wetlands and buffer areas associated with the realignment of Rochester Neck Road, construction of access roads, and construction of drainage ways. These wetland areas are designated as Area M, Area W, and a small area along the realigned Rochester Neck Road, as shown on Figures 3, 4, and 5. The impacts to these wetlands will be mitigated as described above and in the Wetland Permit Application. The use of these wetlands meets the conditions of Chapter 42.12(i)(1)(A)(i) through (iv) as follows:

i. The proposed construction is essential to the productive use of land not within the COD.

The proposed development of the TLR-III South Area will allow WMNH to continue to provide waste disposal services beyond 2024, the year that TLR-III is currently expected to reach capacity. Continued use of the TREE Facility for future disposal is consistent with agreements between the City and WMNH.

ii. Design and construction methods will be such as to minimize impact upon the wetlands and will include restoration of the site consistent with the permitted use.

As noted in the alternatives analysis component of the Wetlands Permit Application, the project was designed, and will be constructed, to limit wetland impacts and restore or mitigate impacts that are necessary for the project development.

iii. There is no feasible alternative route on land controlled by the applicant that does not cross the COD nor has less detrimental impact on the wetlands. Nothing in this Section shall limit the applicant from, exploring alternatives with abutting property owners.

As noted above, an alternatives analysis was complete by WMNH to assess options for the proposed waste capacity development (i.e., the proposed TLR-III South Area project) and is

included as Exhibit VIII of the Wetland Permit Application. The current proposed location of the TLR-III South Area, with realignment of Rochester Neck Road, resulted in the least impact to wetlands.

iv. Economic advantage is not the sole reason for the proposed location of the construction.

Development of new disposal areas are expensive propositions, and the TLR-III South Area project makes best use of existing infrastructure and local resources while minimizing wetland and buffer impacts as much as possible. Development of the TLR-III South Area project will be a major financial undertaking for WMNH and will have significant financial benefits to the City and its residents.

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 areichert@wm.com.

Very truly yours,
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.



Anne Reichert, P.E.
Construction Project Manager

LLD/ESS:lld

Enclosures Wetland Impact Figures

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



October 6 2017

Mr. James B. Campbell, Director
Planning and Development Department
City of Rochester
31 Wakefield Street
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TURNKEY RECYCLING & ENVIRONMENTAL ENTERPRISE

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Re: Waivers from Site Plan Regulations
Site Plan Application – TLR-III Refuse Disposal Facility – South Area
Turnkey Recycling and Environmental Enterprise
Rochester, New Hampshire

Dear Mr. Campbell:

Waste Management of New Hampshire, Inc. (WMNH) is requesting three waivers from the Site Plan Regulations (Regulations) for the above referenced project. The waiver requests are for: (i) the requirement to provide site development plans at a scale no less than one inch equals 50 feet [Article II, Section 5 (2)]; (ii) the requirement to provide the plans on mylar and blue or black line prints [Article II, Section 5 (3)]; and (iii) the requirement of underground utilities for a project in the Recycling Industrial zone [Article III, Section 15 (D)(1)].

SCALE WAIVER

Article II, Section 5 (2) of the Regulations requires that *"The scale of said plan shall not be less than one inch equals 50 feet."*

WMNH is requesting a waiver from this requirement for select drawings in the Site Plan Application and offers the following justification. The proposed TLR-III Refuse Disposal Facility – South Area (TLR-III South Area) is an expansive project that includes the construction of a new 58.6-acre disposal area as well as: (i) realigning a ¾-mile portion of Rochester Neck Road; (ii) relocating the Residential Drop-Off Facility; (iii) modifying the Isinglass River Park; and (iv) expanding WMNH's Container Storage Area. As such, a scale greater than one inch equals 50 feet was utilized on select drawings to depict the entire project area on one sheet and/or limit the number of sheets necessary to depict portions of the project. For these select sheets, using the required scale would limit the ability to depict the overall project, its context, connection between the various project components, and likely cause confusion when reviewing the plan set. The drawing scales used were selected to best present the proposed project.

From everyday collection to environmental protection, Think Green® Think Waste Management.

PRINTING WAIVER

Article II, Section 5 (3) of the Regulations requires that *"The original of said plan shall be on mylar, and there shall also be submitted three blue or black line prints of any such plan."*

WMNH is requesting a waiver from this requirement as the use of mylar, blue line, and black line prints is outdated. As part of the application, WMNH provided 22 copies of the reduced drawings along with three full-size copies of the drawings, some of which contain color. Upon request, WMNH will provide the City with an electronic version of the drawings in Portable Document Format (*.pdf).

UNDERGROUND UTILITIES WAIVER

Article III, Section 15 Part (D)(1) of the Regulations requires that *"All electric, telephone, television and other communication lines and structures shall be placed underground throughout the site including utilities extended onto the site from existing poles near the site."*

As noted in Article III, Section 15 Part (D)(3), WMNH understands that the City may waive this requirement on the basis of impracticality and cost relative to the scale of the project. To that end, WMNH reviewed the applicable sections of the Regulations with respect to the proposed project, and offers the following justification for a waiver from the underground utilities requirements of the Regulations.

1. Some of the proposed utilities are located along and down a 3H:1V cut slope. Underground utilities in these areas would be impractical because it would require a significant amount of over-excavation, at times near existing buildings, to properly bury the proposed lines.
2. The site currently has above ground high voltage utilities in the area of the Turnkey Recycling & Environmental Enterprise (TREE) Facility. The installation of overhead utilities in this area will not create unnecessary visual impact or detract from a favorable view or landscape, and would be keeping with the commercial/industrial development theme of WMNH's property in the area of the TREE Facility.
3. Burying excessive lengths of high voltage underground utilities can pose a safety concern as familiarity with their buried location becomes vague with time. Even with diligent efforts to locate and mark utilities with survey, not having installations being clear from a given utility pole to a known location, puts this knowledge at risk and raises the potential for accidents. Many of the proposed utilities will occur on private property, and utility locating services such as DigSafe do not cover private property such as the TREE Facility, resulting in dependence on a third-party locator when as-builts are not available. Typically, responsiveness by these service providers is not prompt, increasing the potential for work to begin before locating the utilities is completed.

Similarly, the nature of the construction requires that it be completed in multiple stages of construction over multiple years. The prolonged construction period increases the potential for accidents as markings are lost over time.

4. Burying the electrical utilities along the realigned $\frac{3}{4}$ miles of Rochester Neck Road would need to be approved by the local electric utility and will likely be cost prohibitive. In addition to the trenching costs, we anticipate that the switch from overhead to below ground would increase the complexity of the project as electrical conductors would need to be upsized to provide the same transmission capacity.
5. Understanding that the City desires to improve the aesthetics of developing and developed areas, given the scale and type of the proposed redevelopment, its location in a rural area, and the lack of nearby residences, the little aesthetic value gained by burying the electrical utilities is not worth the significant cost to bury the utilities.

We trust that the above information fully addresses the City's need for a waiver request from the site development plan scale, printing, and underground utilities requirements for this project. Should you require additional information, please contact me at areichert@wm.com.

Very truly yours,
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.



Anne Reichert, P.E.
Construction Project Manager

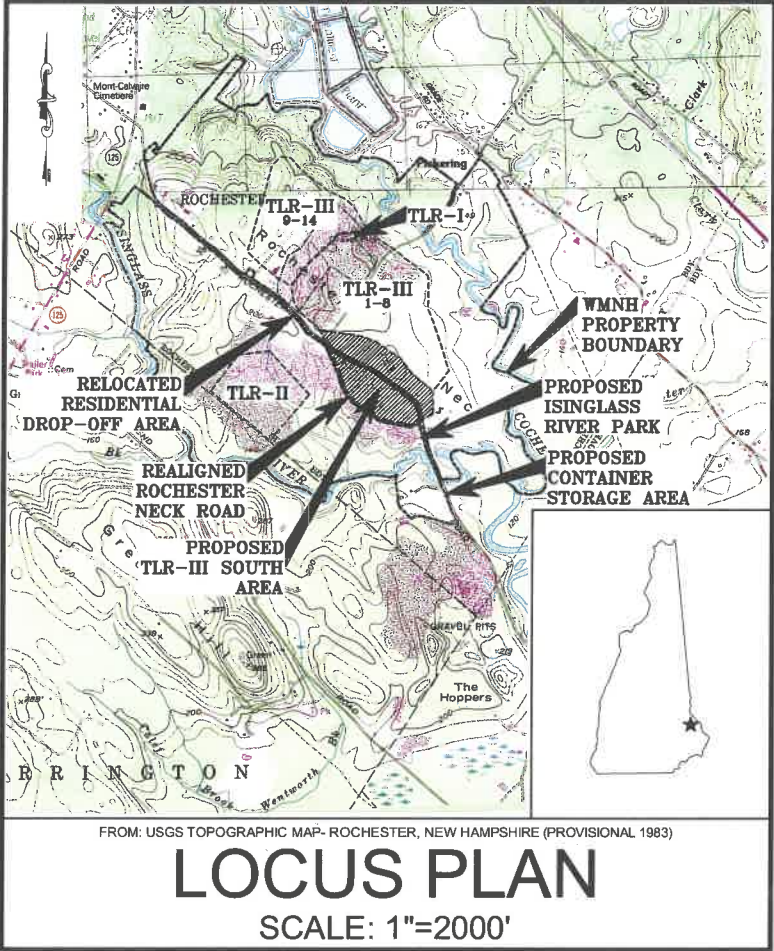
LLD/ESS:lld/lct

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

TLR-III SOUTH AREA SITE PLAN APPLICATION DRAWINGS
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
OCTOBER 2017



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SP-1	OVERALL SITE PLAN	IRP-2	ISINGLASS RIVER PARK - PROPOSED SITE PLAN
SP-2	OVERALL SITE DEVELOPMENT AND INDEX PLAN	IRP-3	ISINGLASS RIVER PARK - DETAILS
RDO-1	RESIDENTIAL DROP-OFF - EXISTING CONDITIONS AND DEMOLITION PLAN	TLR3S-1	TLR-III SOUTH AREA - ANTICIPATED EXISTING CONDITIONS
RDO-2	RESIDENTIAL DROP-OFF - PROPOSED SITE PLAN	TLR3S-2	TLR-III SOUTH AREA - PHASE AND CELL PLAN
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RNR-1	ROCHESTER NECK ROAD - ANTICIPATED EXISTING CONDITIONS PLAN	TLR3S-7	TLR-III SOUTH AREA - PERIMETER BERM SECTIONS
RNR-2	ROCHESTER NECK ROAD - OVERALL PROPOSED SITE PLAN	TLR3S-8	TLR-III SOUTH AREA - PERIMETER ROADWAY DETAILS
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RNR-7 - RNR-8	ROCHESTER NECK ROAD - DETAILS	CSA-1	CONTAINER STORAGE AREA - EXISTING CONDITIONS PLAN
		CSA-2	CONTAINER STORAGE AREA - PROPOSED SITE PLAN
		CSA-3 - CSA-4	STORMWATER MANAGEMENT DETAILS
		E&S - 1	EROSION & SEDIMENTATION CONTROL DETAILS
		L-1 - L-4	LANDSCAPING PLANS (BY OTHERS)

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



REFERENCE NOTES

- EXISTING TOPOGRAPHY AND SITE FEATURES WERE PROVIDED TO SANBORN HEAD IN ELECTRONIC FILES TITLED "TREE16-01.DWG" THROUGH "TREE16-12.DWG" FILED USING PHOTOGRAMMETRIC METHODS BY QUANTUM SPATIAL OF DULLES, VIRGINIA FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. (WMNH) USING AERIAL PHOTOGRAPHY DATED APRIL 21, 2016 AT AN ORIGINAL SCALE OF 1" = 100' AND CONTOUR INTERVAL OF 2 FEET. TOPOGRAPHY WAS MODIFIED IN THE AREA OF THE LEACHATE TREATMENT PLANT TO REFLECT CHANGES MADE AS PART OF THE LEACHATE TREATMENT PLANT EXPANSION PROJECT CONSTRUCTED IN 2016-2017.
- VERTICAL DATUM IS BASED ON NGVD 1929. GRID IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 1983.
- TLR-I LIMIT OF WASTE WAS TAKEN FROM A PLAN TITLED "TLR-I PHASING PLAN" PREPARED BY RICHARD F. KAMINSKI & ASSOCIATES, INC. OF LAWRENCE, MASSACHUSETTS DATED MAY 27, 1998 AT A SCALE OF 1" = 100'.
- TLR-II PHASES 1-8 LIMIT OF WASTE CONTAINMENT WAS TAKEN FROM DRAWINGS PREPARED FOR WMNH TITLED "MECHANICALLY STABILIZED EARTH (MSE) BERM EXPANSION", BY GOLDER ASSOCIATES OF MANCHESTER NEW HAMPSHIRE. DATED AUGUST 2001, ORIGINAL SCALE OF 1" = 200'.
- TLR-III PHASES 9-14 LIMIT OF WASTE CONTAINMENT WAS TAKEN FROM SHEET 3 OF DRAWINGS PREPARED FOR WMNH TITLED "TLR-III REFUSE DISPOSAL FACILITY PHASES 9-14", BY SANBORN HEAD DATED DECEMBER 2003, REVISED JUNE 2004. ORIGINAL SCALE OF 1" = 120'.
- WETLAND AREAS REPRESENT A COMPILATION OF INFORMATION DETERMINED USING EXISTING AERIAL PHOTOGRAPHY, SOILS INFORMATION, U.S.F.W.S. NATIONAL WETLAND INVENTORY MAPS, AND DELINEATIONS WITHIN THE PROJECT AREA CONDUCTED IN OCTOBER AND DECEMBER 2014 AND SUPPLEMENTED WITH ADDITIONAL DELINEATIONS PERFORMED BETWEEN SEPTEMBER 2010 AND JUNE 2015 BY BARRY H. KEITH, NH CWS #087, IN ACCORDANCE WITH NHWS ADMINISTRATIVE RULE WT 301.01 (A-C) USING THE METHODS OUTLINED IN THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JANUARY 1987) AND FIELD IDENTIFYING HYDRIC SOILS IN NEW ENGLAND (VERSION II) PUBLISHED BY THE N.E. INTERSTATE WATER POLLUTION CONTROL COMMISSION. WETLAND AREAS WERE CLASSIFIED IN ACCORDANCE WITH NHWS ADMINISTRATIVE RULE WT 301.02 USING THE USFWS/OBS-79/31 MANUAL CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES (COWARDIN ET AL., 1979).
- LIMIT OF WETLANDS PERTINENT TO THE TLR-III SOUTH AREA WERE MAPPED BY WSP TRANSPORTATION AND INFRASTRUCTURE, INC. USING TOTAL STATION SURVEY METHODS AND PROVIDED ELECTRONICALLY ON NOVEMBER 7, 2014 AND FEBRUARY 3, 2015, AND SUPPLEMENTED WITH LIMIT OF WETLANDS PREVIOUSLY DELINEATED IN 2000 AND 2008.
- EXISTING MONITORING WELL AND GAS PROBE LOCATIONS WERE PROVIDED TO SANBORN HEAD BY WMNH.
- PROPERTY LINE INFORMATION WAS TAKEN FROM A PLAN TITLED "BOUNDARY COMPIATION AND FOOTPRINT COMPIATION OF TLR-I AND TLR-II, ROCHESTER NECK ROAD, GONIC, NEW HAMPSHIRE" PREPARED FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. BY CHAS. H. SELLS, INC. OF NASHUA, NEW HAMPSHIRE DATED JANUARY 29, 2002 AT A SCALE OF 1" = 300'.
- THE 100-YEAR FLOODPLAIN IS BASED ON INFORMATION PROVIDED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "FLOOD INSURANCE RATE MAP, STRAFFORD COUNTY, NEW HAMPSHIRE" PANEL 302 OF 405, EFFECTIVE DATE SEPTEMBER 30, 2015.
- PROPOSED GRADING SHOWN WITHIN TLR-III PHASES 1-14 FOOTPRINT REPRESENTS THE PERMITTED FINAL GRADES FOR THE TLR-II REFUSE DISPOSAL FACILITY AS DEPICTED IN THE PHASES 9-14 TYPE I-A PERMIT MODIFICATION APPLICATION DRAWINGS.

MATERIAL SPECIFICATIONS

- ORDINARY FILL SHALL BE NATURAL SOIL WITH NO PARTICLES LARGER THAN 8 INCHES.
- GRANULAR FILL SHALL BE NATURAL SOIL WITH NO PARTICLES LARGER THAN 1 INCH.
- CRUSHED STONE SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1-1/2 INCHES.
- TYPE I RIPRAP SHALL CONSIST OF STONE RANGING IN SIZE FROM 4 TO 10 INCHES.
- TYPE II RIPRAP SHALL CONSIST OF STONE RANGING IN SIZE FROM 6 TO 8 INCHES.

ROCK REMOVAL

- IF MORE THAN 5,000 CUBIC YARDS ARE TO BE BLASTED, WMNH SHALL DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE IN DRINKING WATER SUPPLY WELLS OR OTHER WELLS REPRESENTATIVE OF DRINKING WATER SUPPLY WELLS IN THE AREA. BASED ON A REVIEW OF THE NHDES ONESTOP DATABASE, THERE ARE FOUR DRINKING WATER WELLS LOCATED WITHIN 2,000 FEET OF THE PROPOSED BLASTING ACTIVITIES: WRB #203.0420 CITY OF ROCHESTER; WRB #203.0303 FLEMING; WRB #203.0126 BOUGIE & LABBE CONSTRUCTION, INC.; AND WRB #203.0005 DESMARDES.
- THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH:
 - LOADING PRACTICES. THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
 - DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
 - EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
 - SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
 - LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
 - LOADING EQUIPMENT SHALL BE CLEANED OFF-SITE WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
 - EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
 - EXPLOSIVE SELECTION. THE FOLLOWING BMPS SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
 - EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
 - EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.
 - PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
 - MUCK PILE MANAGEMENT. MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
 - REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
 - MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.

ROCK REMOVAL (CONT.)

- THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
 - STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE;
 - SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
 - LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY;
 - INSPECT STORAGE AREAS WEEKLY;
 - COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
 - WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS; AND
 - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
- THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
 - EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
 - PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
 - HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
 - USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES; AND
 - PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
- THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
- FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT OR ITS SUCCESSOR DOCUMENT. (SEE [HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF](http://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF))

ABBREVIATIONS

Ø	DIAMETER	MH	MANHOLE
A, ASPH	ASPHALT	MIN.	MINIMUM
AST	ABOVE-GROUND STORAGE TANK	MSE	MECHANICALLY STABILIZED EARTH
CB	CATCH BASIN	MW	MONITORING WELL
CEM.	CEMETERY	N	NORTHING
CFM	CUBIC FEET PER MINUTE	O.C.	ON CENTER
CONC.	CONCRETE	OD	OUTER DIAMETER
CMP	CORRUGATED METAL PIPE	P	PRIMARY
CPP	CORRUGATED POLYETHYLENE PIPE	PC	PERIMETER CHANNEL
CW	CHANNEL WIDTH	PE	POLYETHYLENE
DI	DROP INLET	PROJ.	PROJECTING
DMH	DRAIN MANHOLE	PT	POINT OF TANGENCY
E	EASTING	PVC	POLYVINYL CHLORIDE
EL.	ELEVATION	RCP	REINFORCED CONCRETE PIPE
ENDWL	ENDWALL	RMC	RIGID METAL CONDUIT
FES	FLARED END SECTION	S	SECONDARY
FRP	FIBERGLASS REINFORCED PLASTIC	SCH	SCHEDULE
GCL	GEOSYNTHETIC CLAY LINER	SDR	STANDARD DIMENSION RATIO
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SS	STAINLESS STEEL
GP	GAS PROBE	TC	TEMPORARY CULVERT
HDPE	HIGH DENSITY POLYETHYLENE	TP	TEST PIT
HDWL	HEAD WALL	TLR	TURNKEY LANDFILL OF ROCHESTER
HP	HIGH POINT, HORSEPOWER	TRANS	TRANSFORMER
INV.	INVERT	TYP	TYPICAL
LCS	LEACHATE COLLECTION SYSTEM	UST	UNDER-GROUND STORAGE TANK
LMH	LEACHATE MANHOLE	W	WELL, GAS WELL
LFG	LANDFILL GAS	WD	WOOD
MAX.	MAXIMUM	WH	WELLHEAD
MC	METAL COVER		

EXISTING CONDITIONS

	TOWN LINE
	PROPERTY LINE
	LOT LINE
	LIMIT OF WASTE CONTAINMENT
	TLR-I LIMIT OF WASTE CONTAINMENT
	2-FOOT ELEVATION CONTOUR
	10-FOOT ELEVATION CONTOUR
	EDGE OF ROAD
	UNPAVED ROAD
	LIMIT OF WETLANDS
	EDGE OF WATER
	LIMIT OF 100-YEAR FLOODPLAIN
	FORCE MAIN
	SEWER
	WATER MAIN
	NATURAL GAS
	ELECTRIC
	OVERHEAD UTILITIES
	FENCE
	TREE LINE
	GUARDRAIL
	EXISTING SWALE & FLOW DIRECTION
	DRAINAGE CULVERT
	PAVEMENT
	WETLAND AREA
	NATURAL WETLAND BUFFER AREA
	RIPRAP-LINED SWALE
	GABION-LINED SWALE
	UTILITY POLE
	POST
	MISC. OBJECT
	SIGN
	LIGHT POST
	TREE/BUSH
	FORCE MAIN MANHOLE
	MONITORING WELL AND DESIGNATION
	GAS PROBE AND DESIGNATION

LEGEND

PROPOSED CONDITIONS

	LIMIT OF WASTE CONTAINMENT
	ZONING LIMIT
	PHASE LIMIT
	SLOPE BREAK
	SWALE & FLOW DIRECTION
	2-FOOT ELEVATION CONTOUR
	10-FOOT ELEVATION CONTOUR
	SOLID LFG HDPE PIPE
	FORCE MAIN PIPE
	SILT FENCE
	GUARDRAIL
	FENCE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	NATURAL GAS PIPELINE
	EDGE OF ROAD
	TREE LINE
	STORMWATER DIVISION BERM
	PERIMETER DRAINAGE CHANNEL
	DRAINAGE CULVERT
	DRAINAGE CULVERT DESIGNATION
	RIPRAP
	GABION-LINED SWALE
	CONCRETE
	VEGETATED STORMWATER FEATURE
	COORDINATES
	SPOT ELEVATION
	HIGH POINT
	UTILITY POLE
	TRAFFIC FLOW ARROW
	SLOPE DIRECTION ARROW
	CATCH BASIN AND DESIGNATION
	CONCRETE PAD
	ROOF AREA
	LARGE BOULDER
	BOLLARD

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD

SCALE: AS NOTED



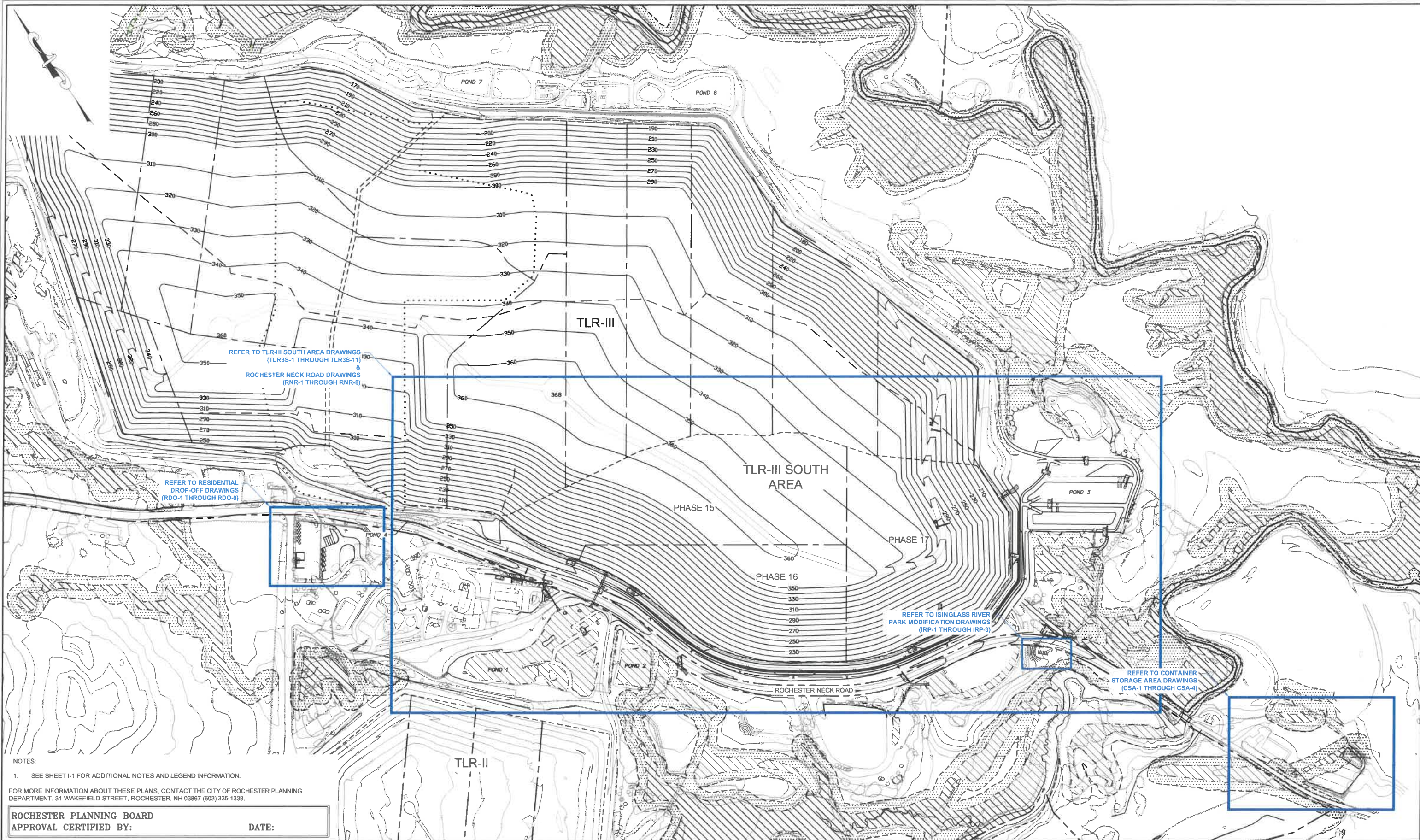
NO.	DATE	DESCRIPTION	BY
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DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

NOTES, LEGEND, AND
ABBREVIATIONS

PROJECT NUMBER:
3534.03
SHEET NUMBER:
I - 1



NOTES:

1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD



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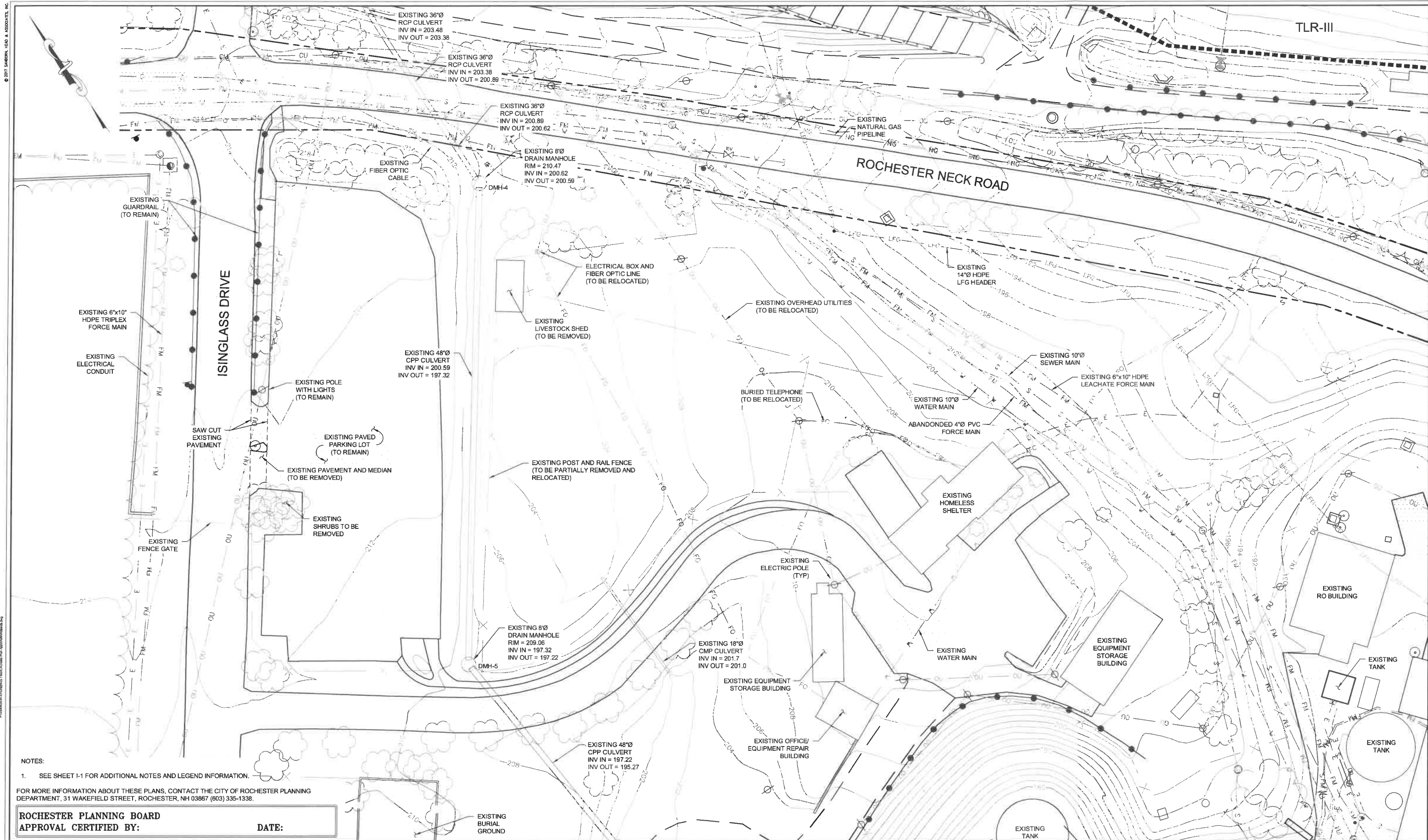
DRAWN BY: A. MATTHEWS
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TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

OVERALL SITE DEVELOPMENT
AND INDEX PLAN

PROJECT NUMBER:
3534.03
SHEET NUMBER:
SP - 2

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NOTES:

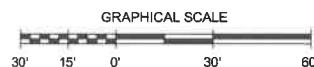
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FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03607 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD



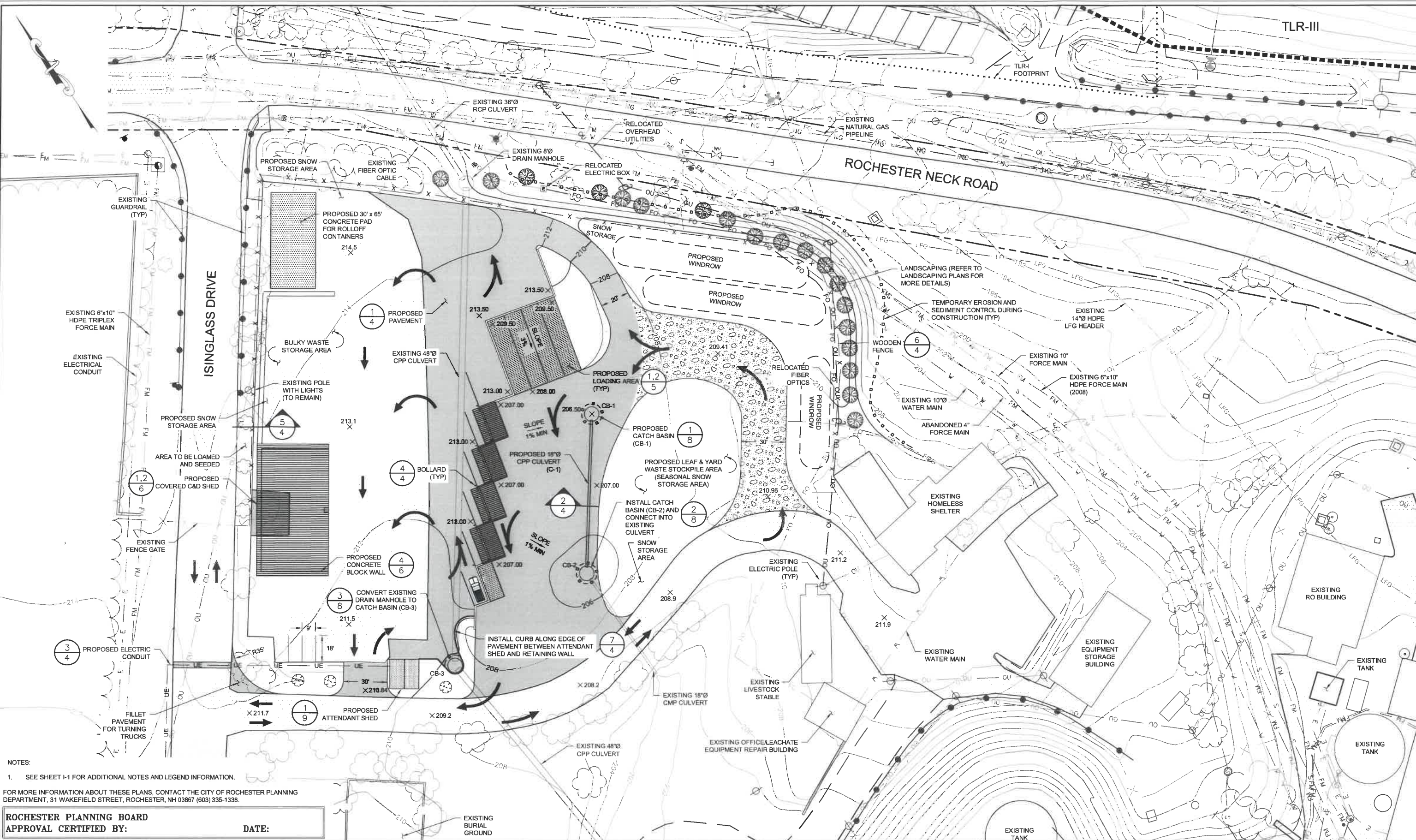
NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

RESIDENTIAL DROP-OFF
EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RDO - 1

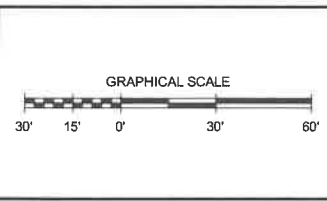


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FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

SANBORN HEAD

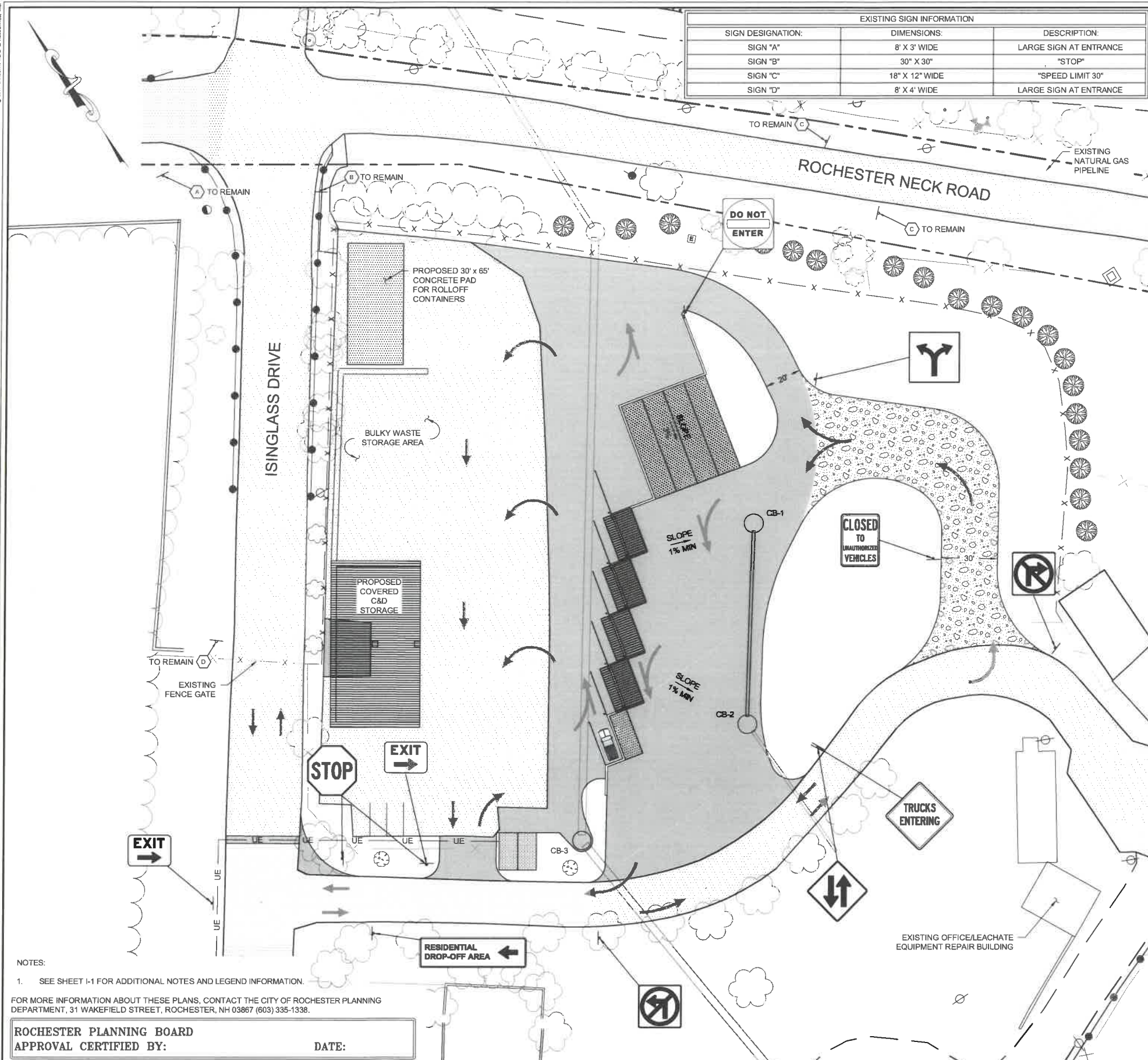


NO.	DATE	DESCRIPTION	BY











DRAWN BY: E. GALVIN
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
**RESIDENTIAL DROP-OFF
PROPOSED SITE PLAN**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RDO - 2



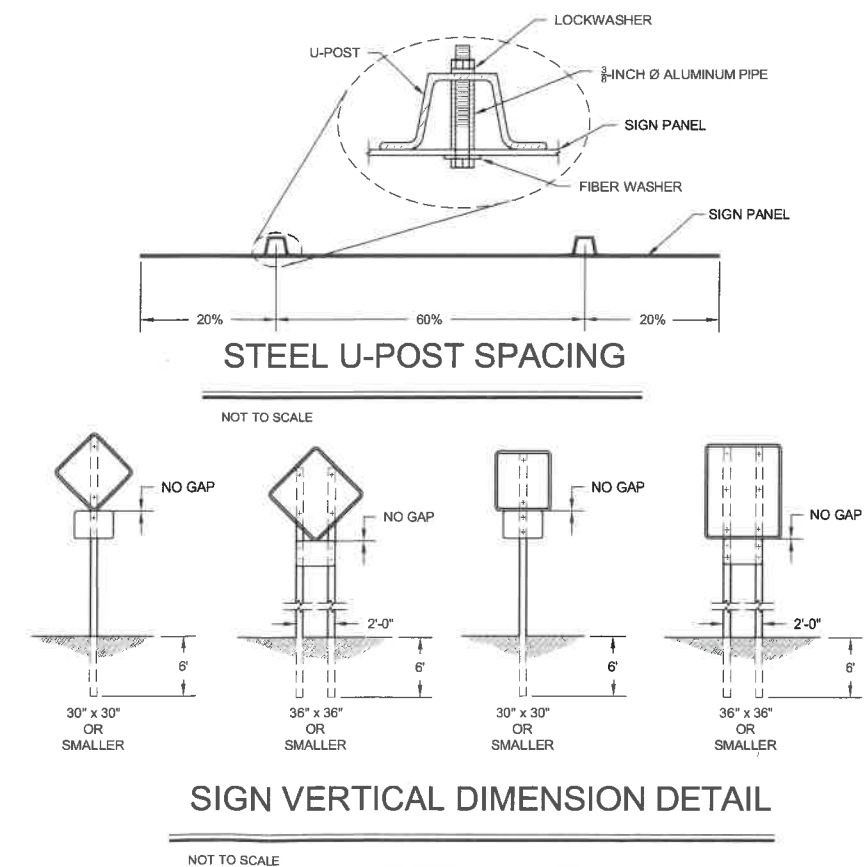
EXISTING SIGN INFORMATION		
SIGN DESIGNATION:	DIMENSIONS:	DESCRIPTION:
SIGN "A"	8' X 3' WIDE	LARGE SIGN AT ENTRANCE
SIGN "B"	30" X 30"	"STOP"
SIGN "C"	18" X 12" WIDE	"SPEED LIMIT 30"
SIGN "D"	8' X 4' WIDE	LARGE SIGN AT ENTRANCE

NEW SIGNAGE SCHEDULE								
MUTCD IDENTIFICATION NUMBER	NUMBER OF SIGNS REQUIRED	WIDTH (INCHES)	HEIGHT (INCHES)	TEXT	LETTER HEIGHT (INCHES)	ARROW LENGTH (INCHES)	VERTICAL DISTANCE BETWEEN ROAD SURFACE AND BOTTOM OF SIGN (FT)	NUMBER OF POSTS
R1-1	1	30	30		10C	—	5**	1
R3-1	1	24	24		—	—	6	1
R3-2	1	24	24		—	—	6	1
R-5-1	1	30	30		4D	—	5	1
W6-3	1	36	36		—	—	5**	1
W14-B3	1	36	36		6D	—	5**	1
R5-10B1	1	18	24		4D	—	5	1
R3-8(7)	1	24	24		—	—	5	1
—	1	36	12		4D	—	5	1
—	2	24	12		4D	12*	5**	1

NOTES:

* ARROW DESIGN SHALL CONFORM TO THE DETAILS DIMENSIONS PROVIDED IN THE "STANDARD HIGHWAY SIGN MANUAL," 2004 EDITION, PAGE 6-2, FOR A 2.5-INCH WIDE ARROW SHAFT.

** WHEN SIGNS SHARE A SUPPORT, INSTALL SIGNS SUCH THAT THERE IS NO GAP BETWEEN SIGNS, AND THE VERTICAL DISTANCE RELATES TO THE TOP SIGN.

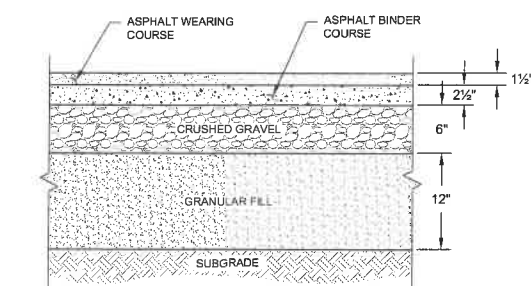


NOTES:

1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

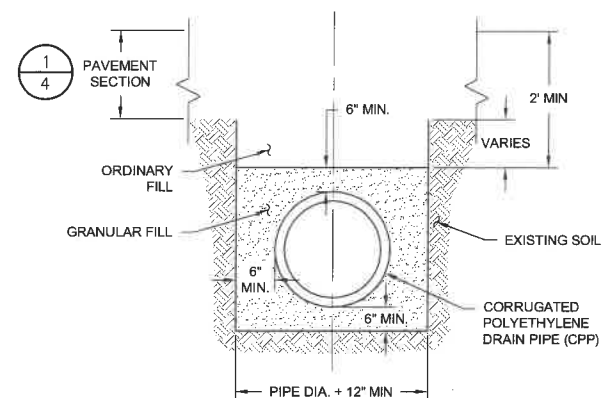
FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

<p>ROCHESTER PLANNING BOARD</p> <p>APPROVAL CERTIFIED BY:</p>	<p>DATE:</p>
---	---------------------



PAVEMENT SECTION

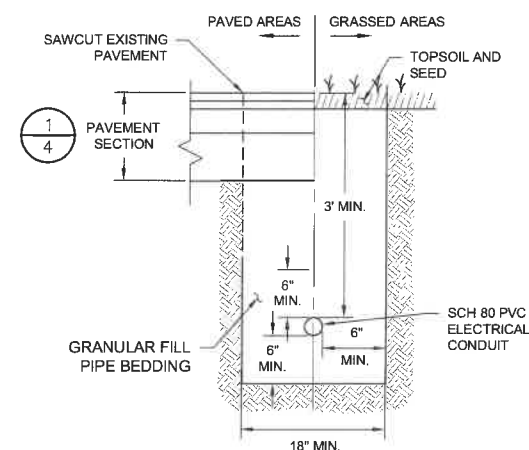
1 NOT TO SCALE



CULVERT SECTION

NOTE:

1. 12-INCHES OF GRANULAR FILL PIPE BEDDING SHALL BE PROVIDED IN AREAS WHERE LEDGE OR UNSUITABLE SOILS ARE ENCOUNTERED.

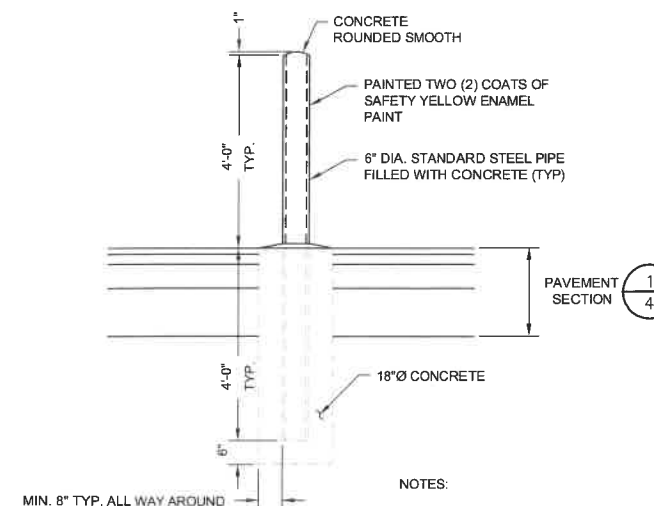


ELECTRICAL CONDUIT SECTION

3

NOT TO SCALE

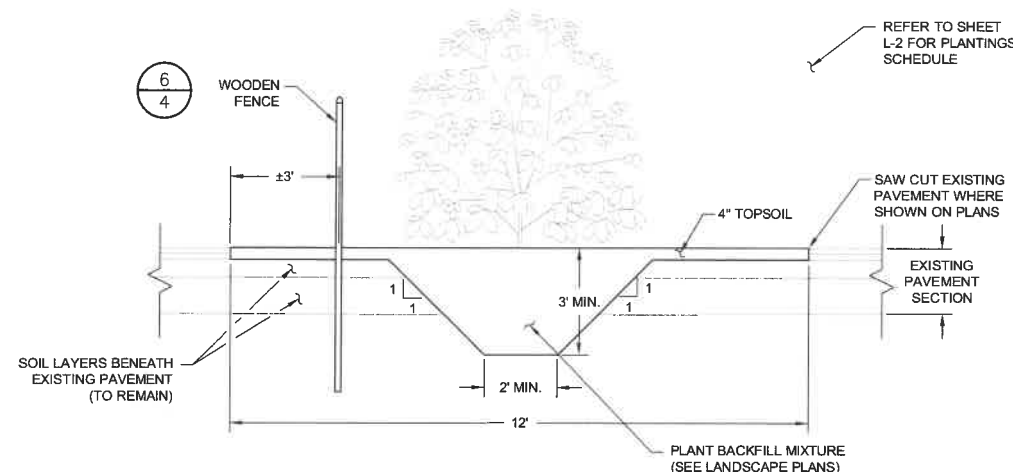
- NOTES:**
1. CONDUITS SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. NUMBER AND SIZE OF CONDUITS TO BE DETERMINED BY A LICENSED ELECTRICIAN.
 2. MULTIPLE CONDUITS WITHIN THE SAME TRENCH SHALL BE SEPARATED BY A MINIMUM OF 6 INCHES.
 3. CONDUITS AND BURIED PIPE WARNING TAPE TO BE PROVIDED AND INSTALLED BY A LICENSED ELECTRICIAN.



BOLLARD

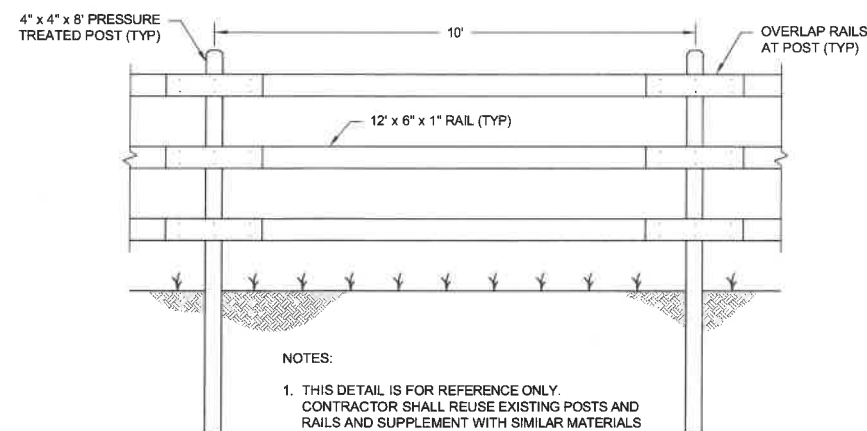
4 _____
NOT TO SCALE

- NOTES:
1. CONTRACTOR HAS THE OPTION TO USE A PRE-FABRICATED BOLLARD APPROVED BY THE ENGINEER.



LANDSCAPED ISLAND SECTION

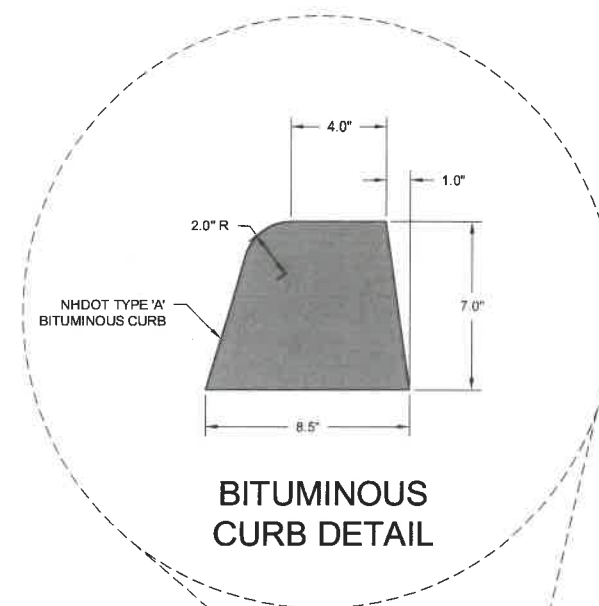
5 NOT TO SCALE



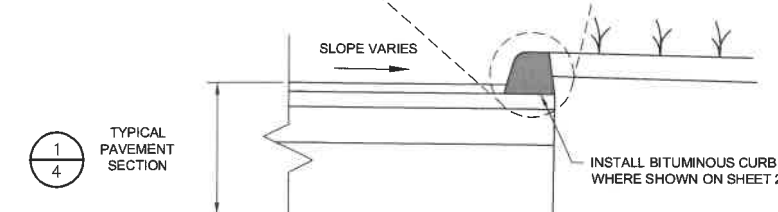
WOODEN FENCE

6 NOT TO SCALE

- NOTES:
1. THIS DETAIL IS FOR REFERENCE ONLY.
CONTRACTOR SHALL REUSE EXISTING POSTS AND
RAILS AND SUPPLEMENT WITH SIMILAR MATERIALS
AND CONSTRUCTION TO WHAT EXISTS.



BITUMINOUS CURB DETAIL



BITUMINOUS CURB DETAIL

7 _____

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SCALE: AS NOTED



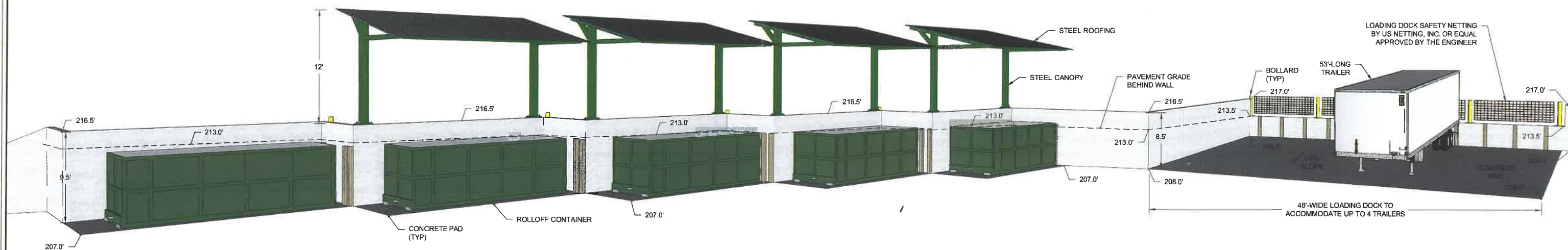
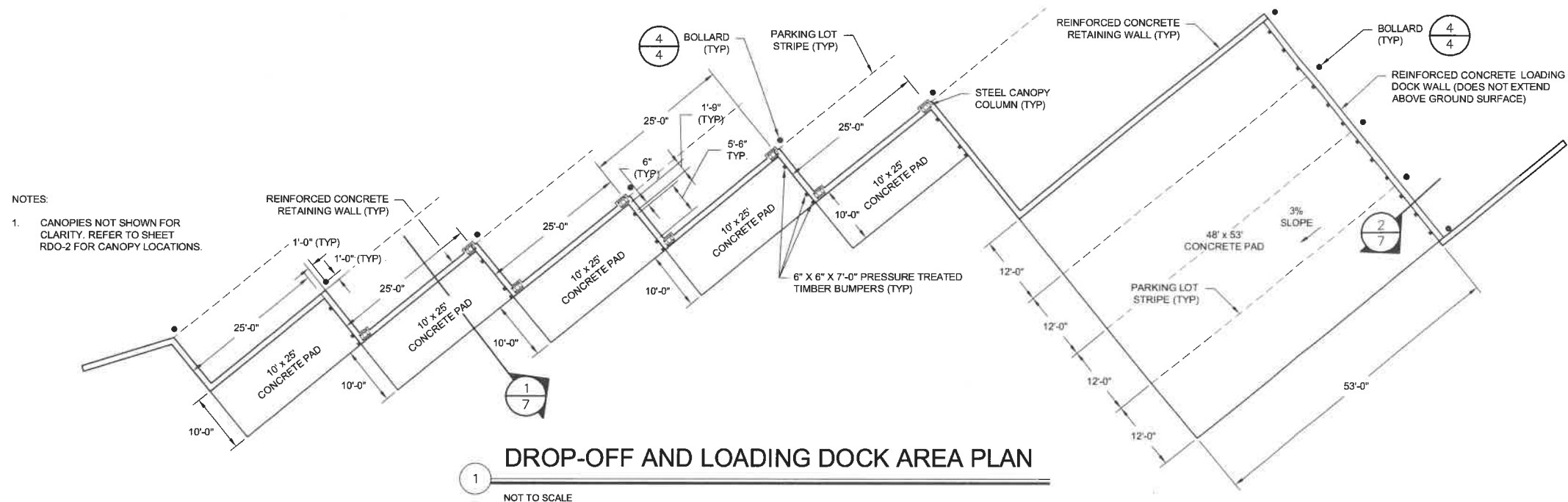
NO.	DATE		DESCRIPTION		BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

RESIDENTIAL DROP-OFF DETAILS

PROJECT NUMBER:	3534.03
SHEET NUMBER:	RDO - 4



DROP-OFF AND LOADING DOCK AREA ELEVATION

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD

SCALE: AS NOTED

[illegible]

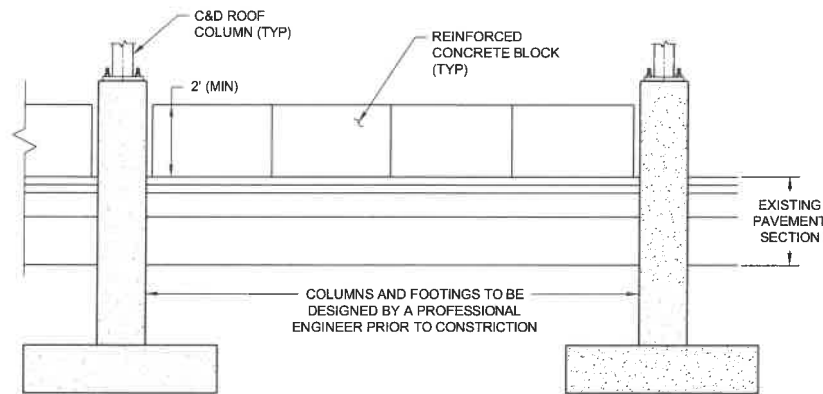
DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

RESIDENTIAL DROP-OFF DETAILS

PROJECT NUMBER:	3534.03
SHEET NUMBER:	RDO - 5

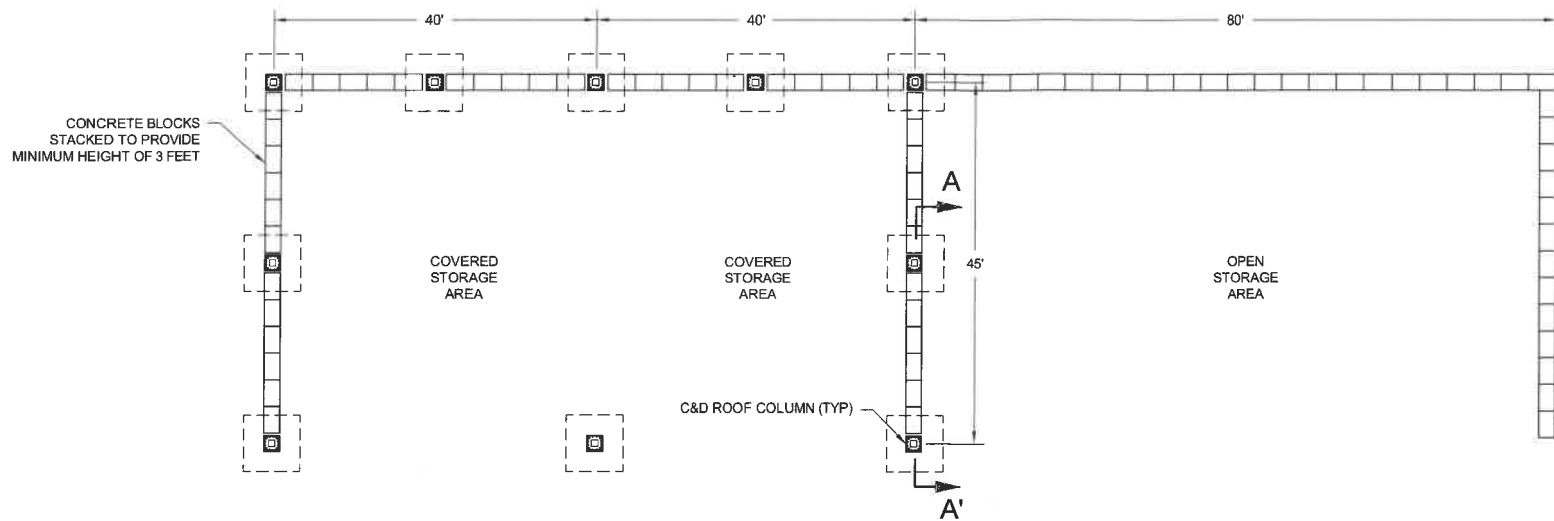
© 2017 SANBORN HEAD & ASSOCIATES, INC.



ELEVATION VIEW

SECTION A-A' -C&D STORAGE SHED COLUMNS

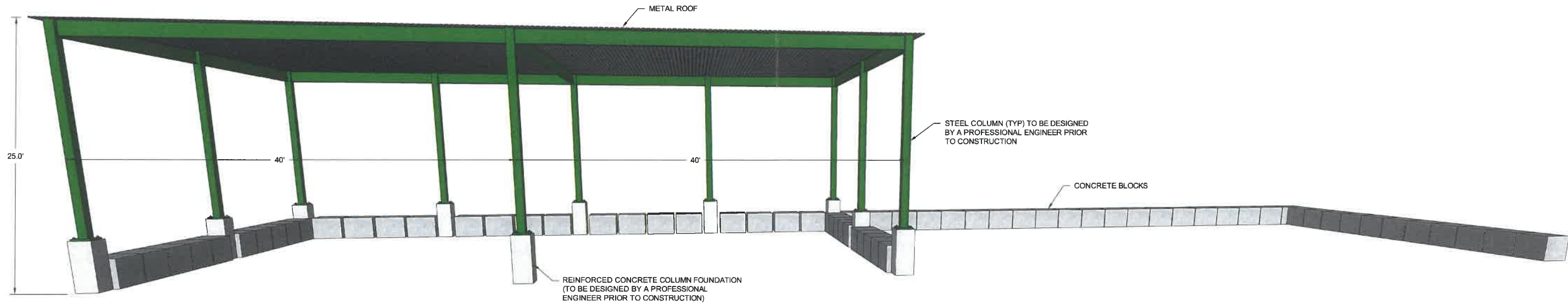
NOT TO SCALE



PLAN VIEW

C&D STORAGE SHED AREA PLAN VIEW

NOT TO SCALE



C&D STORAGE SHED AREA ELEVATION

NOT TO SCALE

(PERSPECTIVE VIEW)

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD	DATE:
APPROVAL CERTIFIED BY:	

SANBORN HEAD

SCALE: AS NOTED



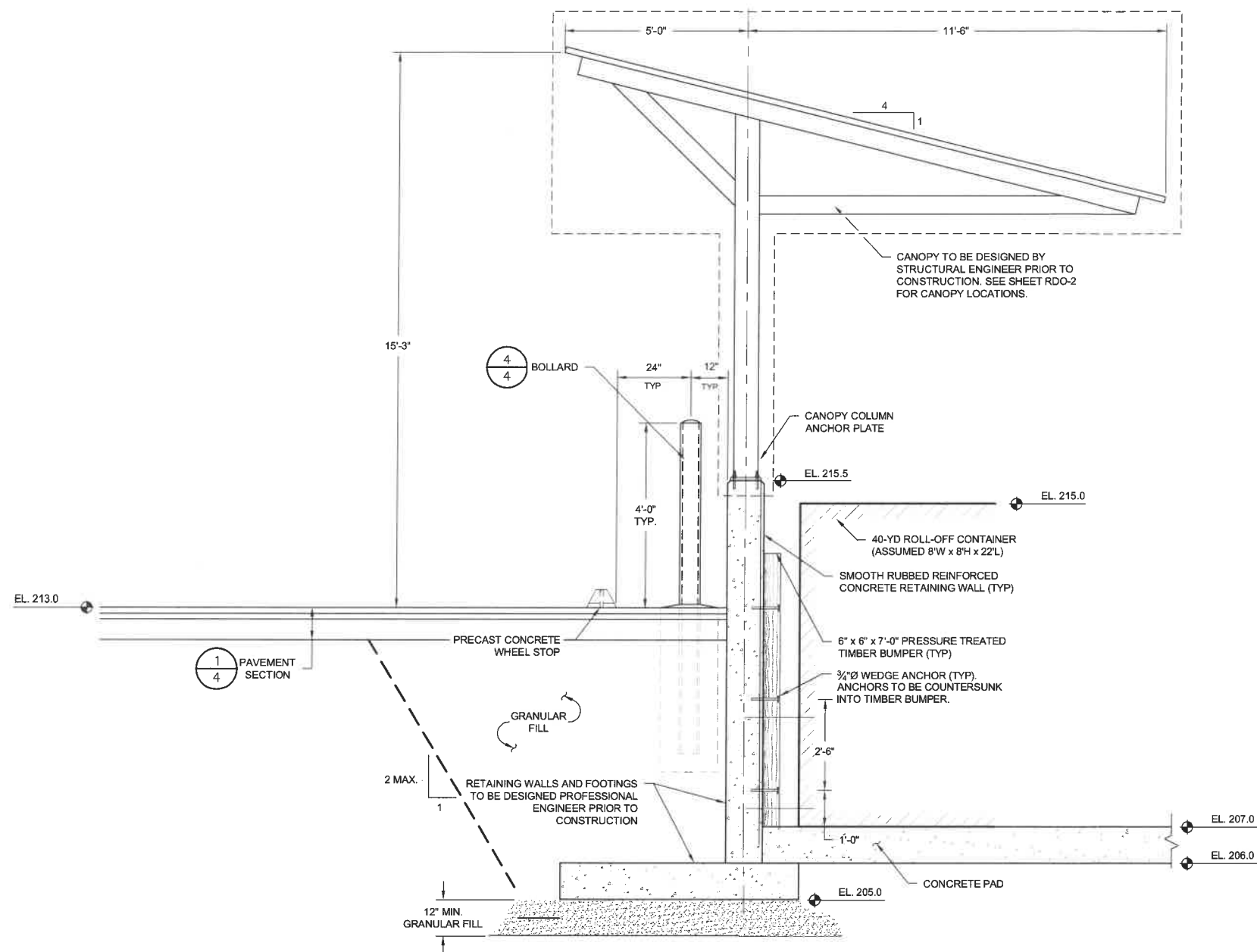
NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

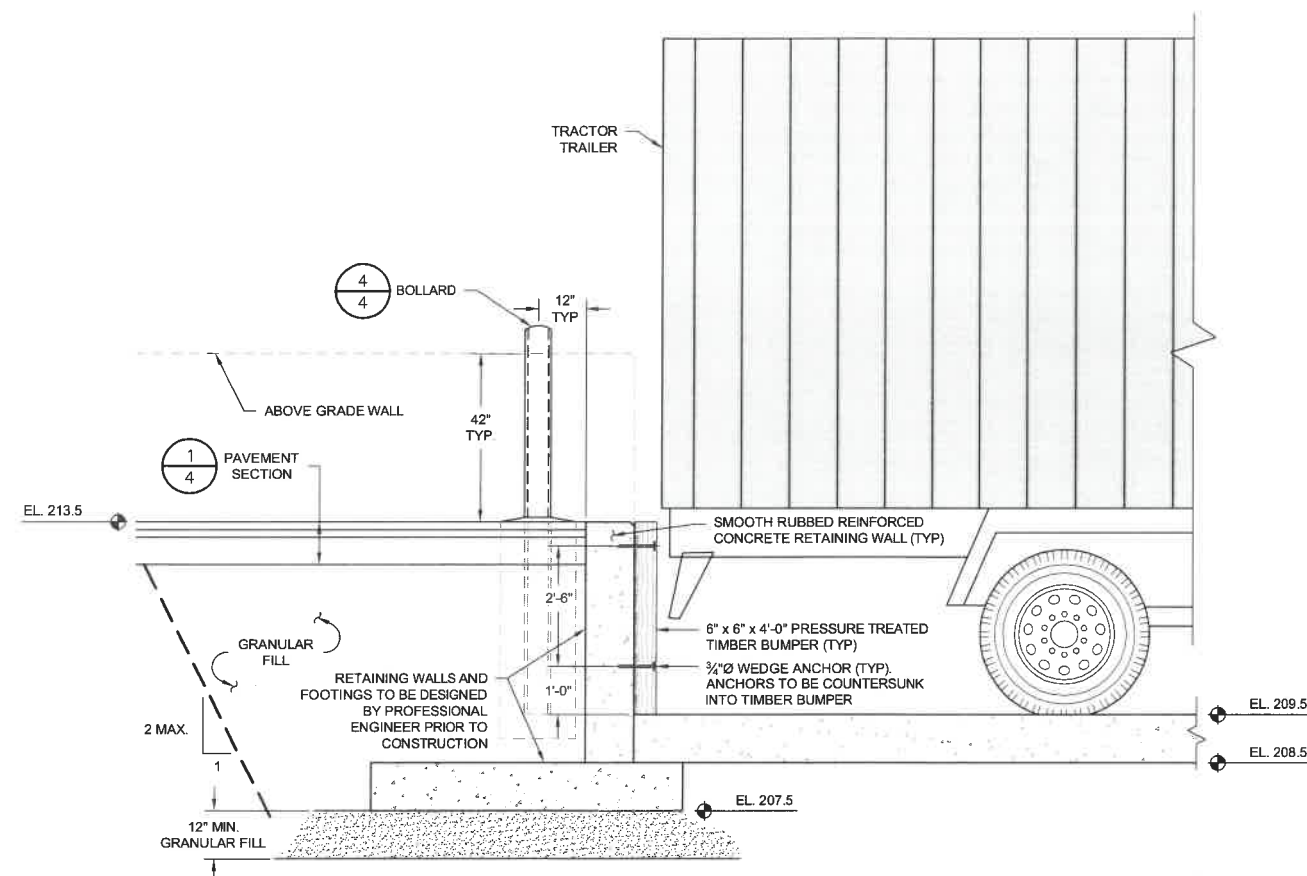
RESIDENTIAL DROP-OFF
DETAILS

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RDO - 6



DROP OFF AREA CONFIGURATION SECTION

NOT TO SCALE



LOADING DOCK AREA CONFIGURATION SECTION

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD

SCALE: AS NOTED

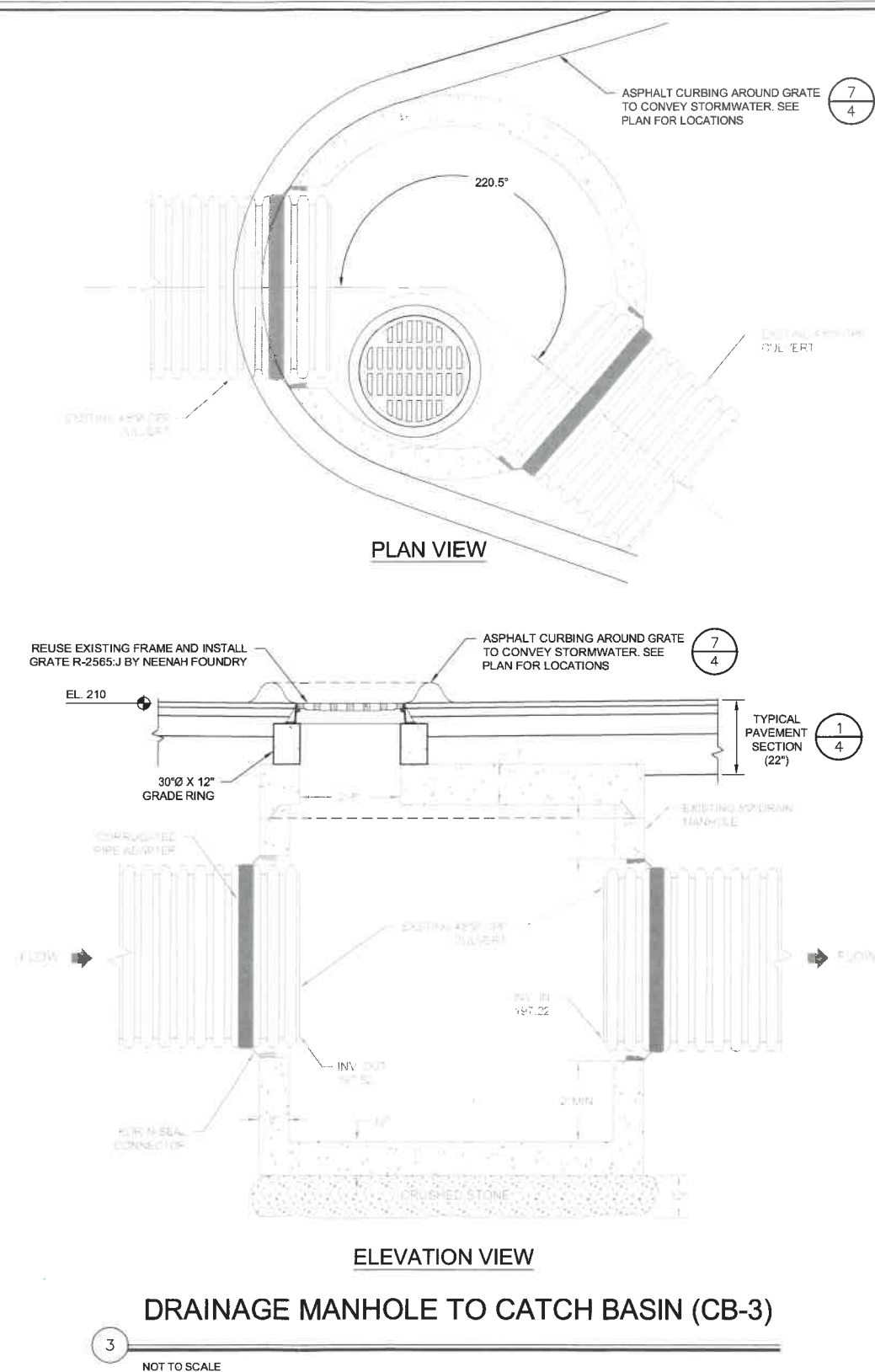
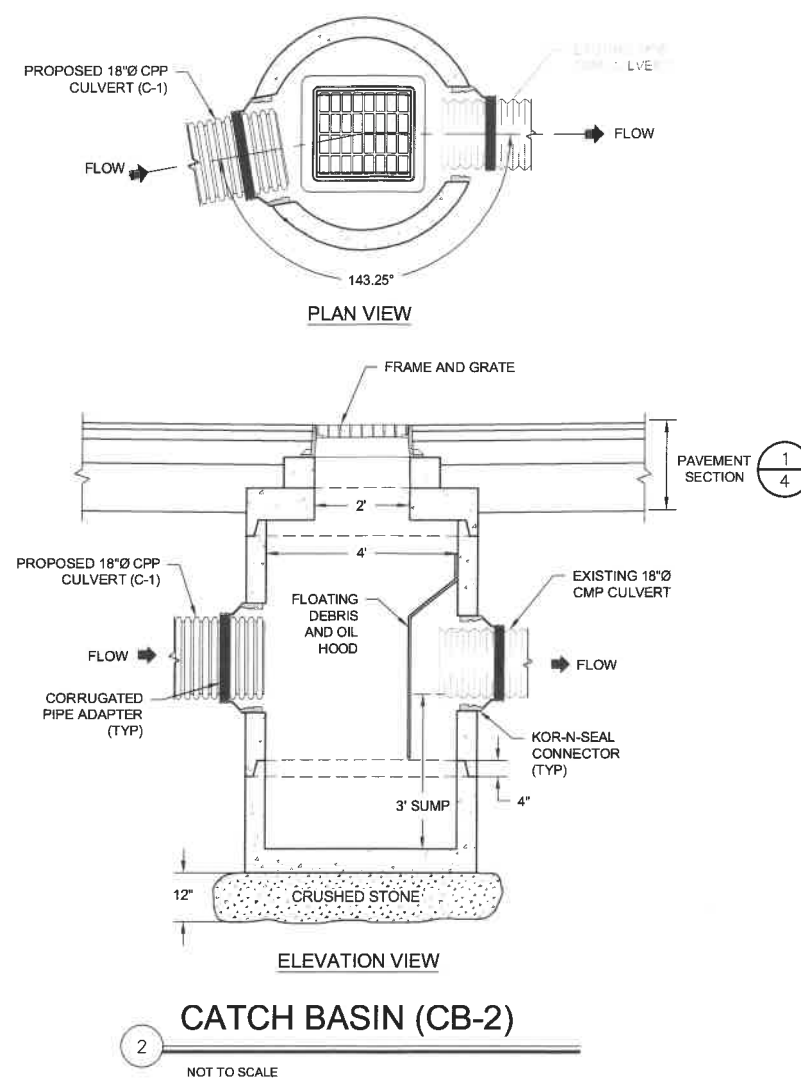
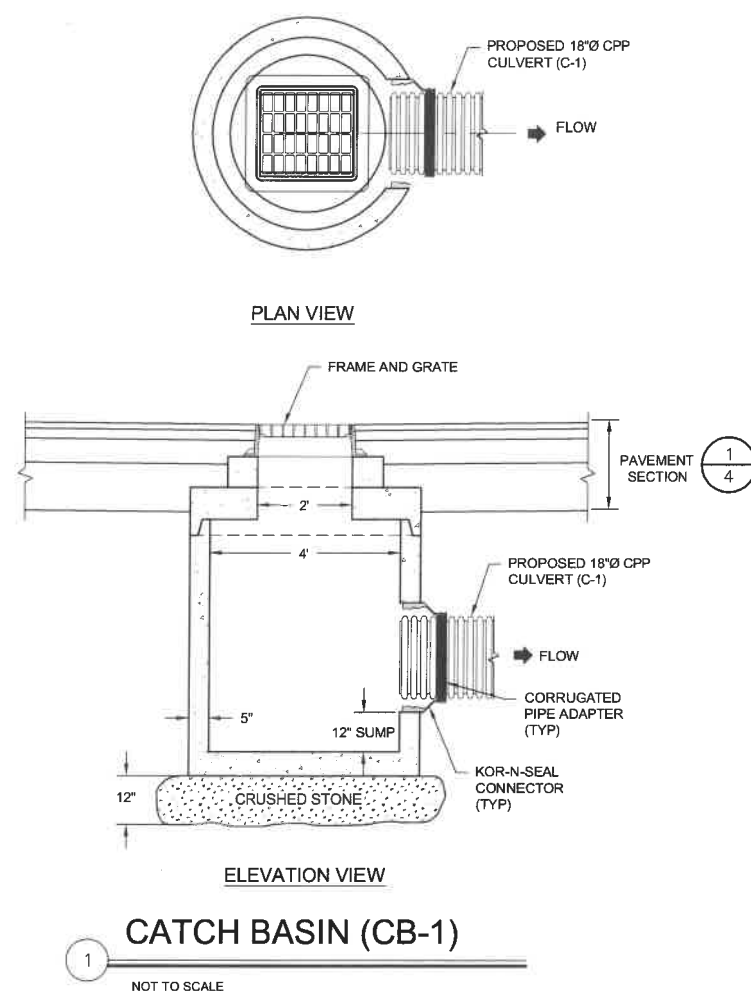
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DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

RESIDENTIAL DROP-OFF DETAILS

PROJECT NUMBER:	3534.03
SHEET NUMBER:	RDO - 7



FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD

SCALE: AS NOTED

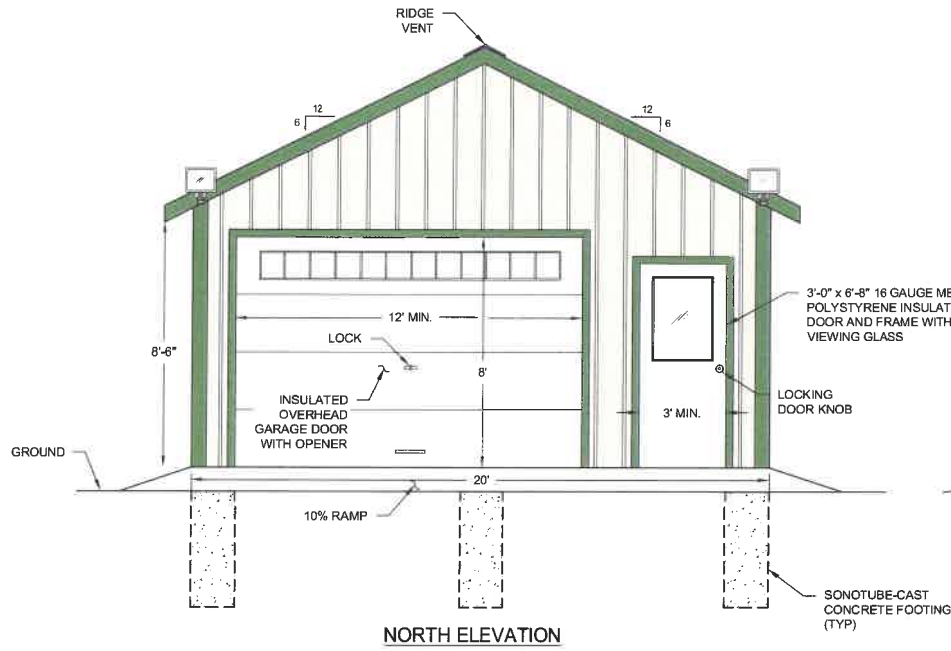
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DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

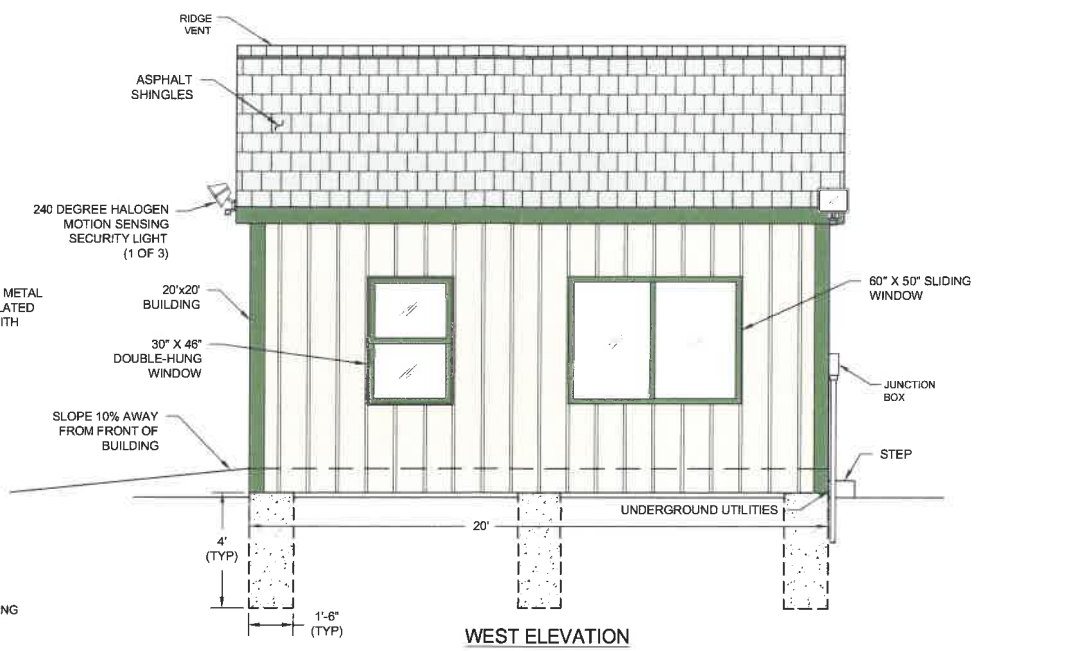
TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

RESIDENTIAL DROP-OFF DETAILS

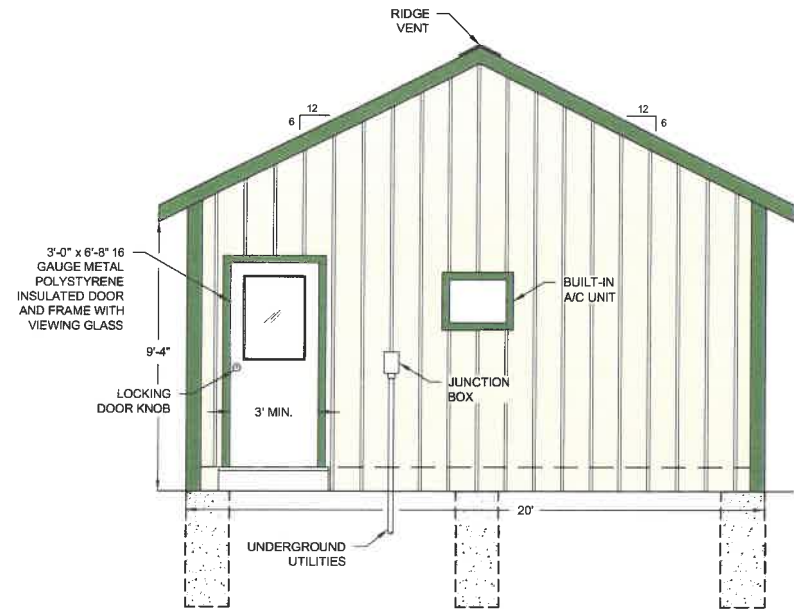
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SHEET NUMBER:	RDO - 8



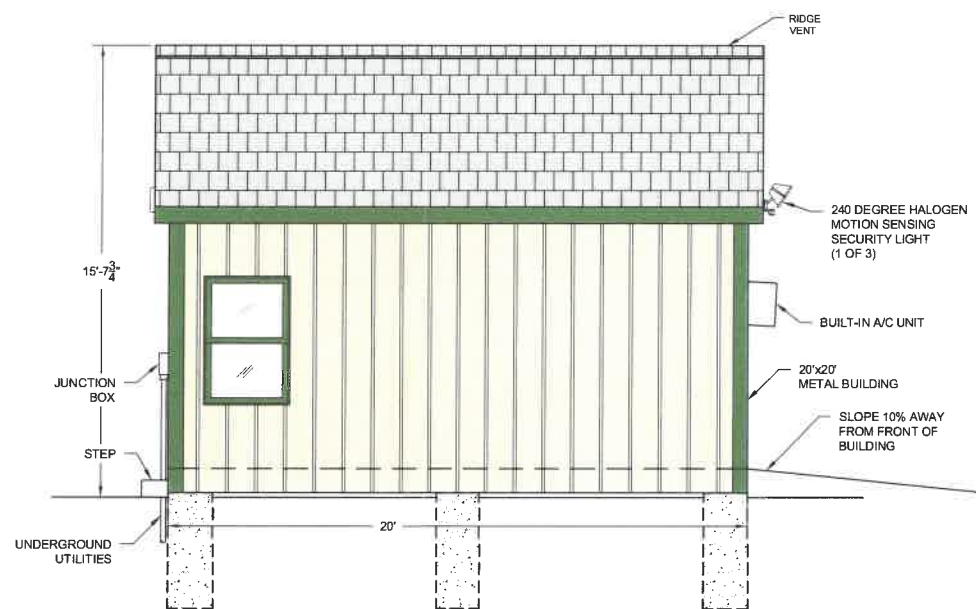
NORTH ELEVATION



WEST ELEVATION

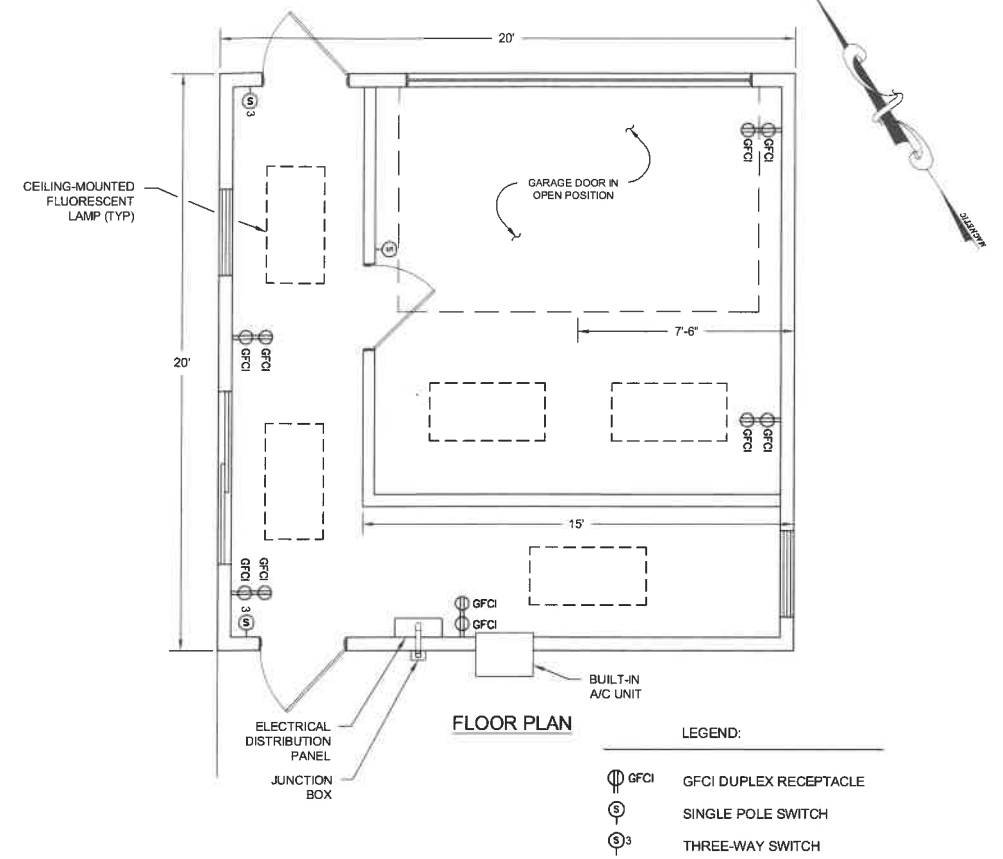


SOUTH ELEVATION



EAST ELEVATION

ELEVATIONS



FLOOR PLAN

LEGEND:

- GFCI GFCI DUPLEX RECEPTACLE
- Ⓢ SINGLE POLE SWITCH
- Ⓢ THREE-WAY SWITCH

NOTE:
1. ATTENDANT SHED FOUNDATION AND STRUCTURE TO BE DESIGNED BY A PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

SANBORN HEAD

SCALE: AS NOTED



NO.	DATE	DESCRIPTION	BY

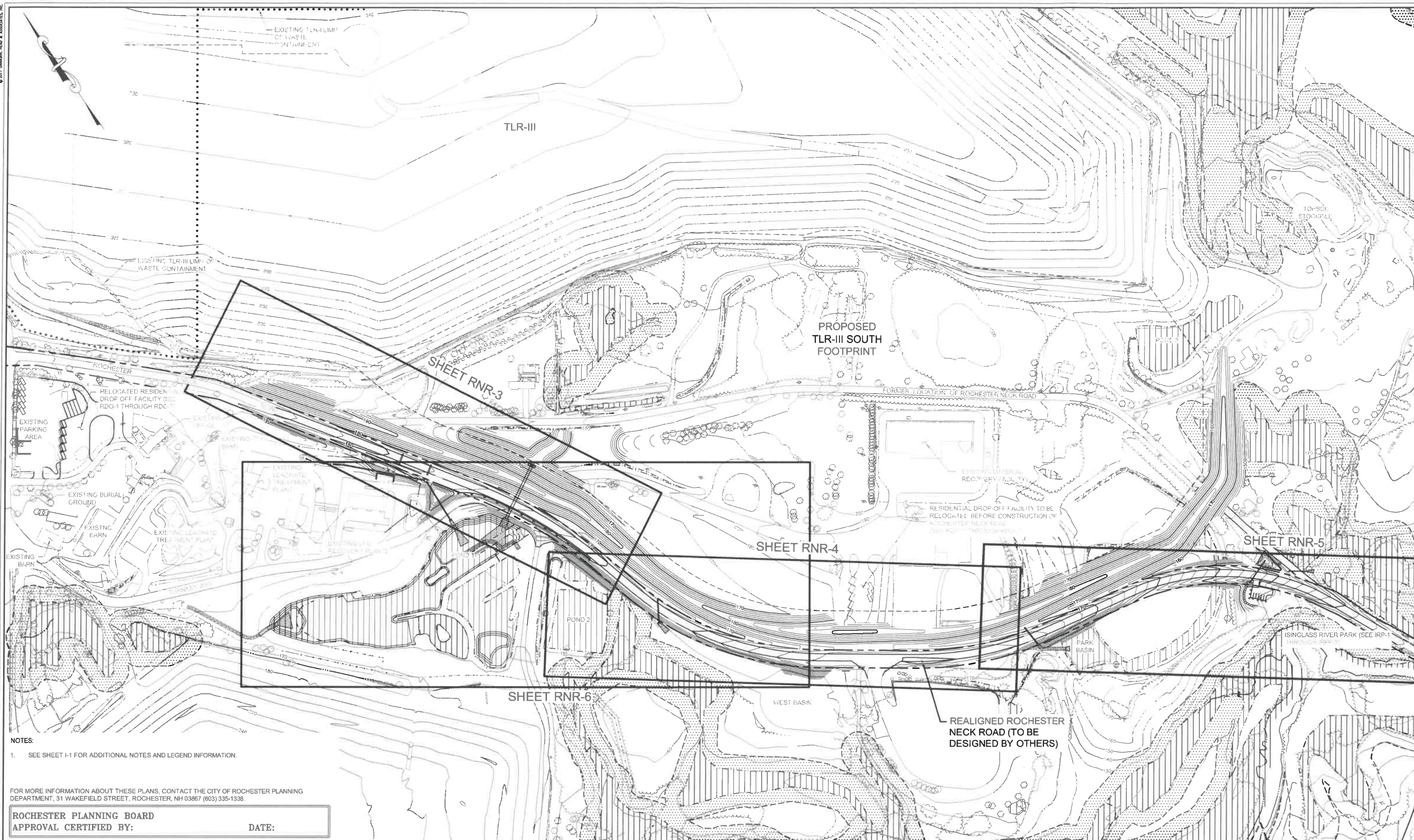
DRAWN BY: T. REED
DESIGNED BY: T. REED
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

**RESIDENTIAL DROP-OFF
DETAILS**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RDO - 9



[illegible]

NOTES:

1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD

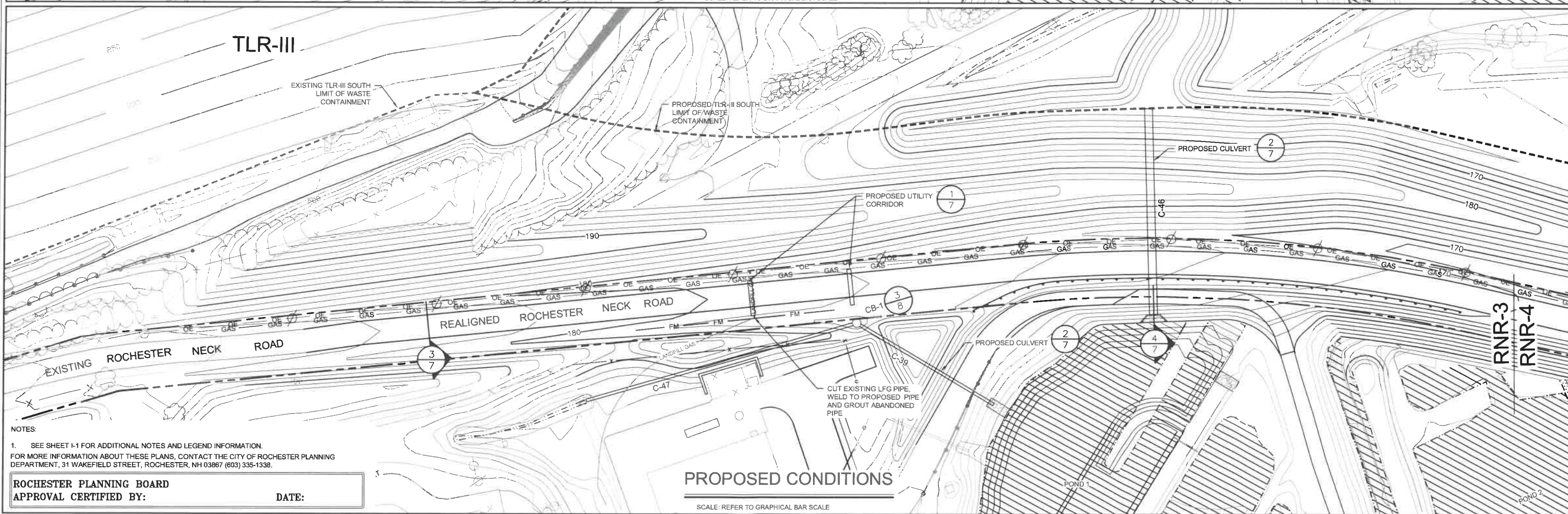
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DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

ROCHESTER NECK ROAD OVERALL PROPOSED CONDITIONS

PROJECT NUMBER:	3534.03
SHEET NUMBER:	RNR-2



ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

A graphical scale bar is shown, labeled "GRAPHICAL SCALE". It features a horizontal line with vertical tick marks. The markings are labeled from left to right as 50', 25', 0', 50', and 100'. The segment between 0' and 50' is divided into two equal parts by a tick mark at 25'. The segment between 50' and 100' is also divided into two equal parts by a tick mark at 75'. The segment from 0' to 25' is shaded with a cross-hatch pattern, and the segment from 75' to 100' is shaded with a diagonal line pattern.



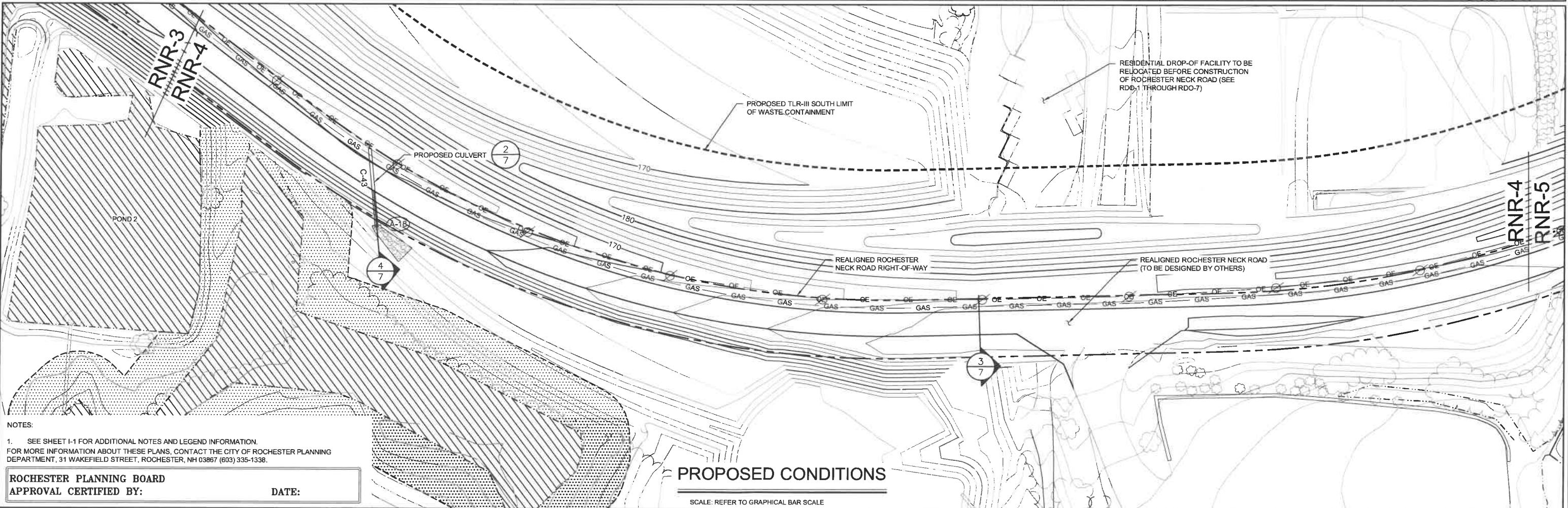
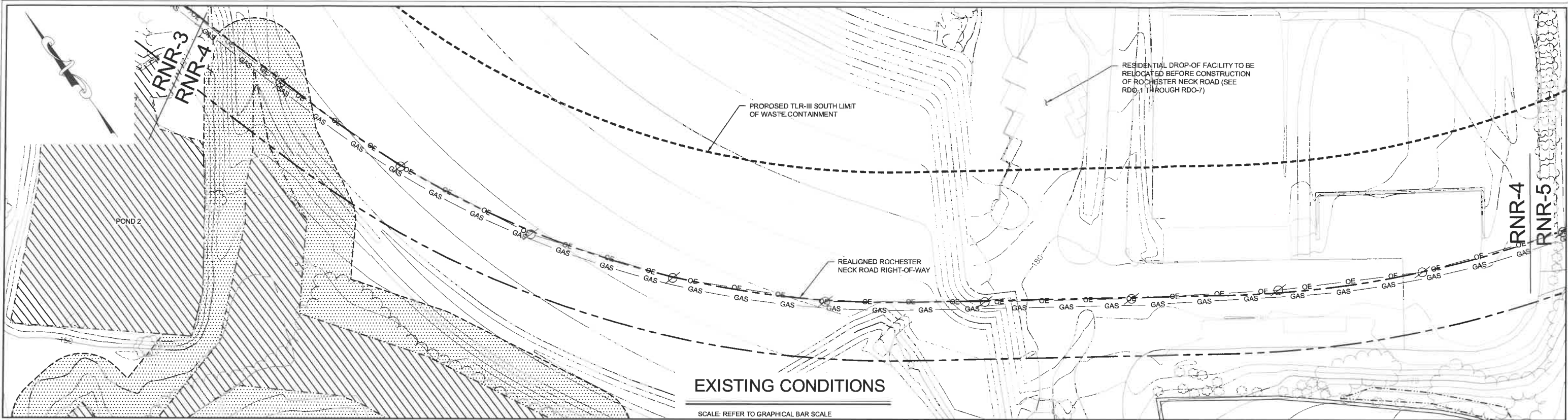
DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION TLR-III REFUSE DISPOSAL FACILITY WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. ROCHESTER, NEW HAMPSHIRE	PROJECT NUMBER: 3534.03
ROCHESTER NECK ROAD PROPOSED CONDITIONS	SHEET NUMBER: RNR-3

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MADE IN THE U.S.A.
1. Improve the quality of the design and construction of the project.

1. Improve the quality of the design and construction of the project.



NOTES:
1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

SANBORN HEAD

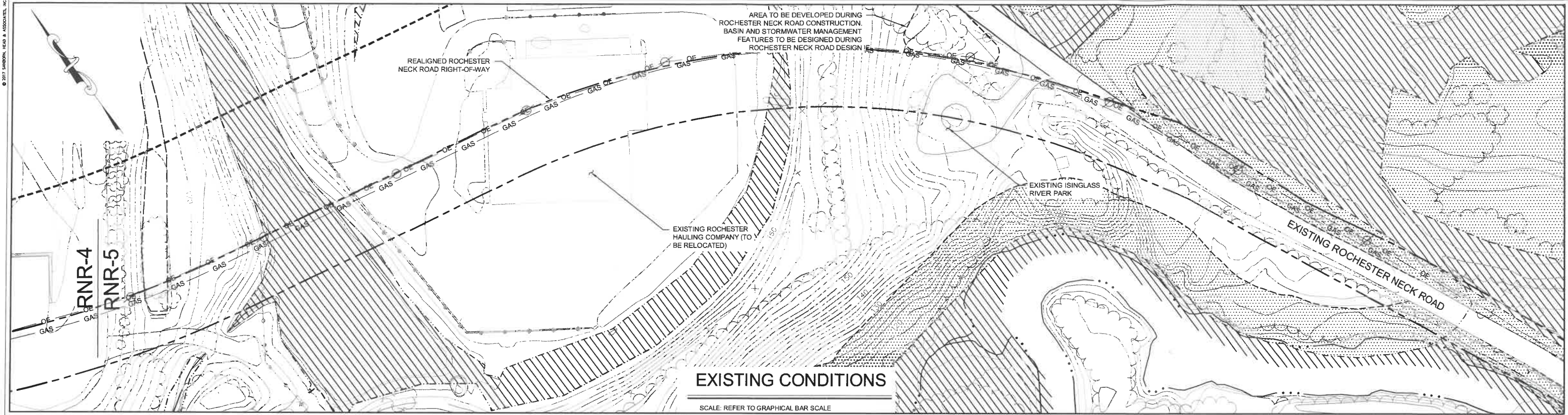


NO.	DATE	DESCRIPTION	BY

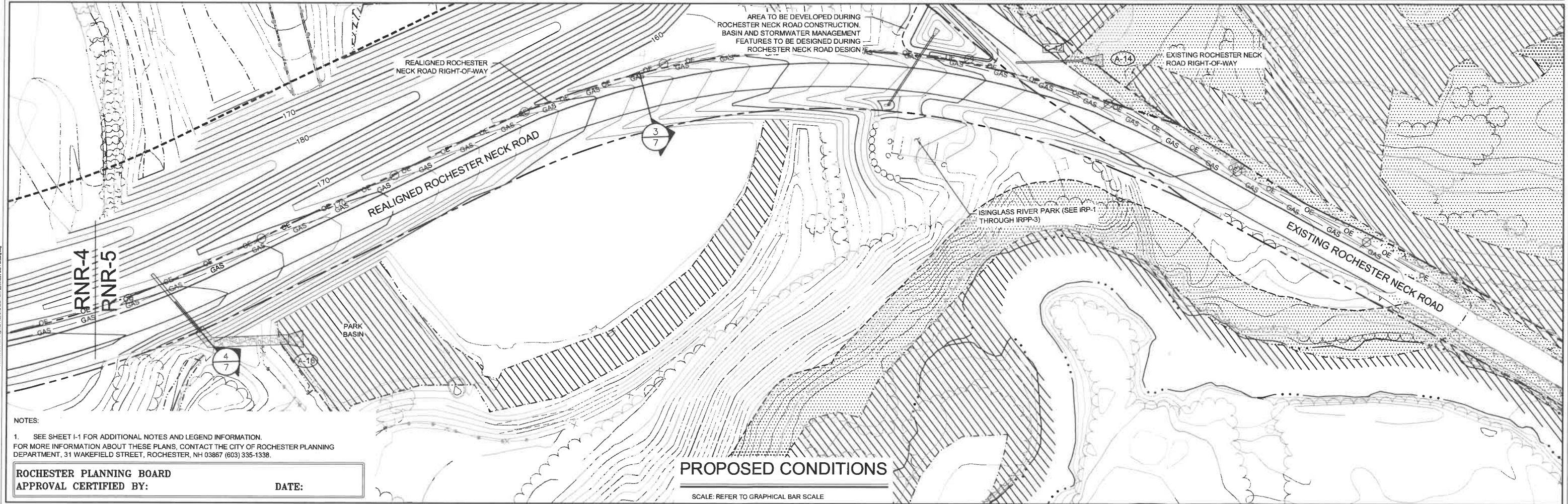
DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
**ROCHESTER NECK ROAD
PROPOSED CONDITIONS**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RNR-4



SCALE: REFER TO GRAPHICAL BAR SCALE



SCALE: REFER TO GRAPHICAL BAR SCALE

NOTES:
1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____



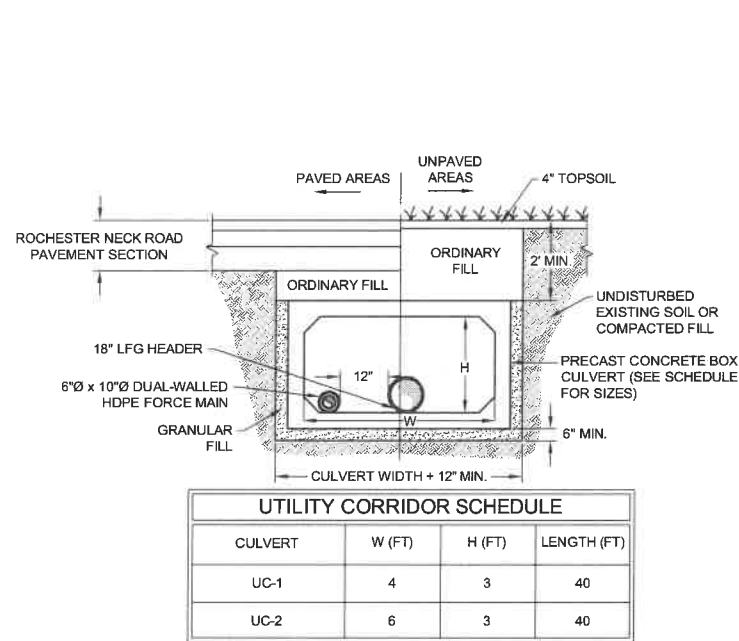
NO.	DATE	DESCRIPTION	BY

DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

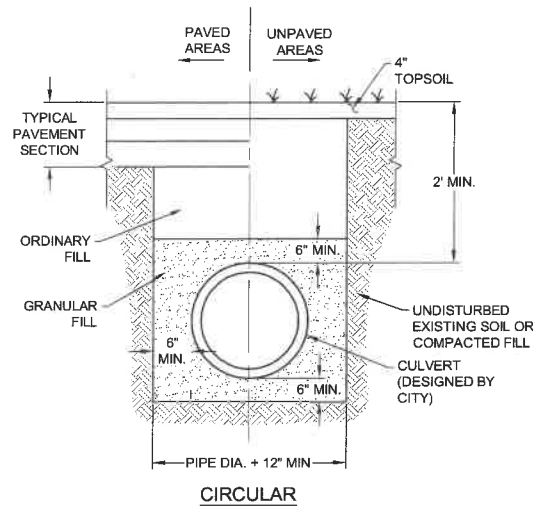
**ROCHESTER NECK ROAD
PROPOSED CONDITIONS**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RNR-5



UTILITY CORRDIOR SECTION

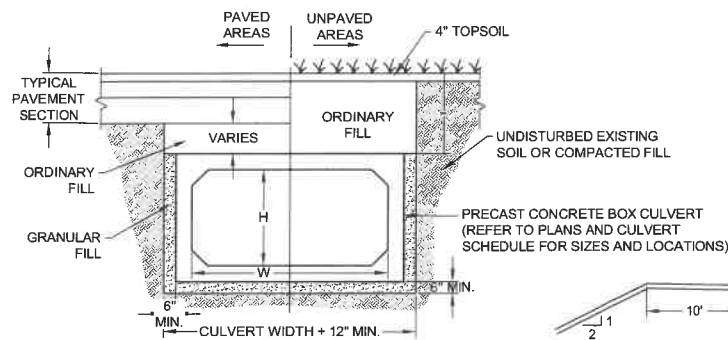
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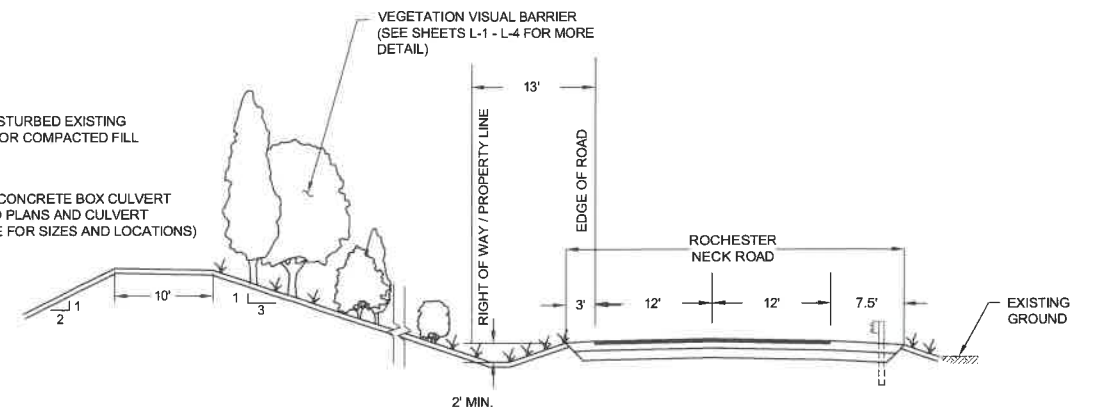
CIRCULAR

CULVERT SECTION

NOT TO SCALE

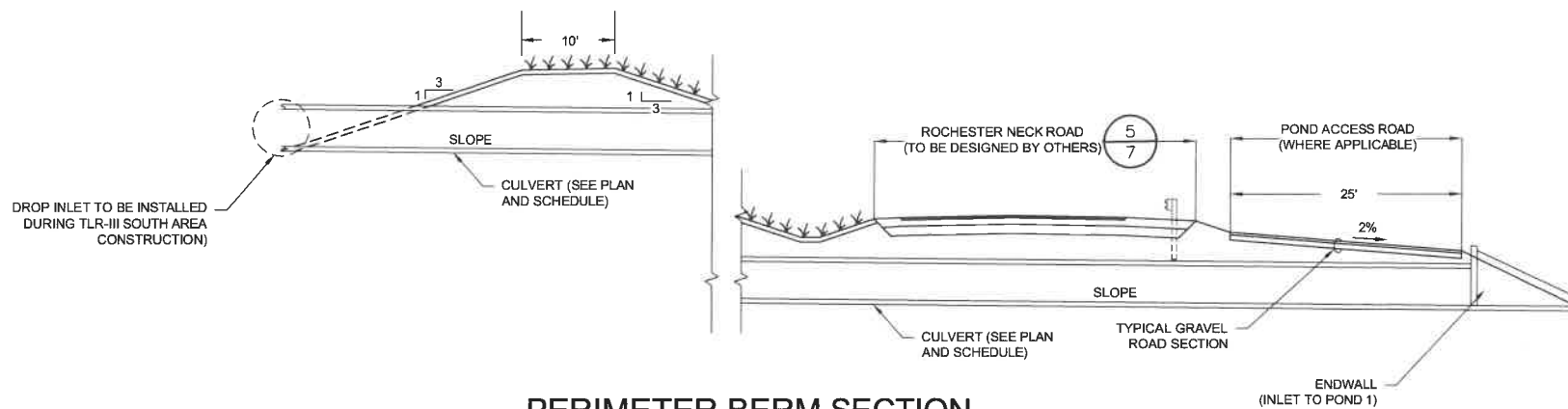


BOX



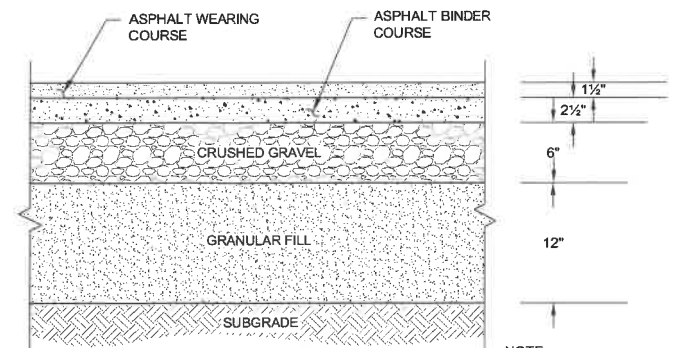
PERIMETER BERM SECTION

NOT TO SCALE



PERIMETER BERM SECTION WITH CULVERT

NOT TO SCALE



PAVEMENT SECTION

NOT TO SCALE

NOTE:
1. ACTUAL SUBBASE AND PAVEMENT LAYER THICKNESS WILL BE CONFIRMED BASED ON CORE SAMPLES TAKEN FROM EXISTING ROAD PRIOR TO CONSTRUCTION.

NOTES:
1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____



SCALE AS NOTED

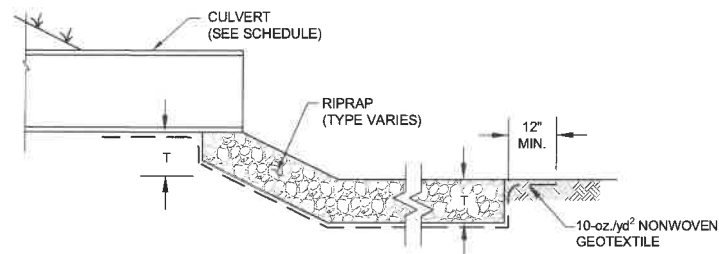
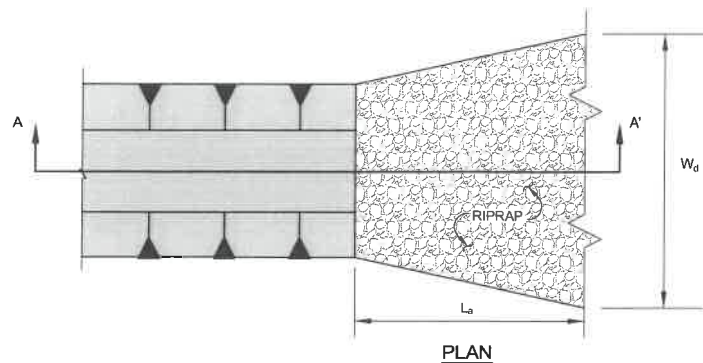


NO.	DATE	DESCRIPTION	BY

DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
**ROCHESTER NECK ROAD
DETAILS**

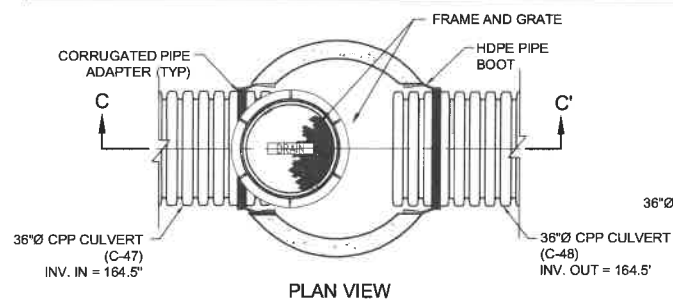
PROJECT NUMBER:
3534.03
SHEET NUMBER:
RNR-7



SECTION A-A' - PROFILE
RIPRAP APRON

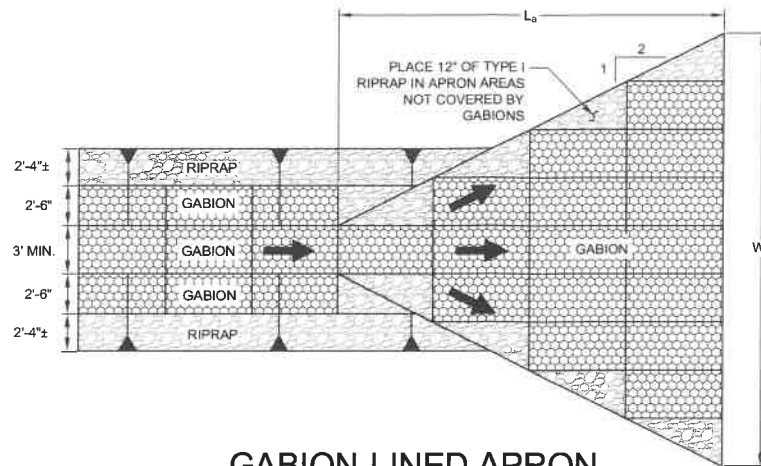
1
NOT TO SCALE

DRAINAGE STRUCTURE SCHEDULE					
STRUCTURE ID	STRUCTURE SIZE	RIM ELEV.	INLET TYPE	PIPE IN	PIPE OUT
DMH-1	5Ø	180.0	FRAME/LID	C-47	C-48
CB-1	5Ø	175.0	GRATE	C-48	C-39



DRAIN MANHOLE (DMH-1)

4
NOT TO SCALE



GABION-LINED APRON

2
NOT TO SCALE

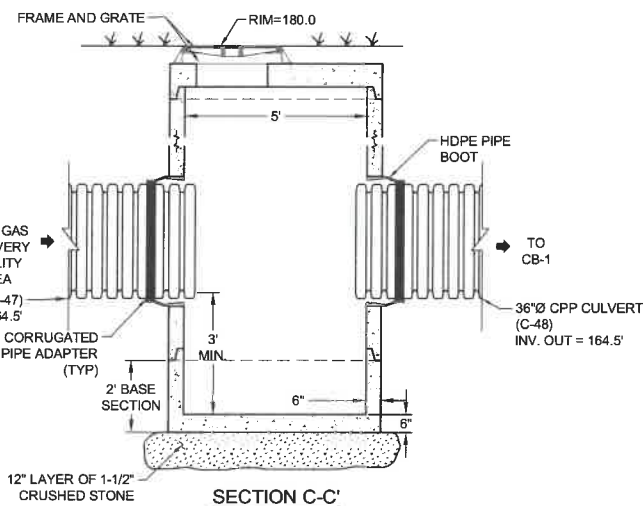
NOTES:

- GABION BASKETS SHALL BE 12 INCHES HIGH BY 3 FEET WIDE BY 6 FEET LONG. THE STONE SIZE SHALL MEET THE REQUIREMENTS OF TYPE I RIPRAP.
- REFER TO THE APRON SCHEDULE FOR DIMENSIONS AND TYPE OF RIPRAP.

APRON SCHEDULE						
APRON	CULVERT	DESCRIPTION	L _a (FT)	W _d (FT)	T (FT)	RIPRAP TYPE
A-8	-	INLET TO POND 1	46	58	N/A	GABION
A-14	C-42	CULVERT UNDER ABANDONED RNR	21	13	12"	I
A-16	C-40	INLET TO PARK BASIN	15	9	12"	I
A-18	C-43	CULVERT UNDER ROAD LEADING TO WEST BASIN	34	CW	18"	II
A-22	C-46	INLET TO POND 1	70	94	N/A	GABION
A-23	C-39	INLET TO POND 1	58	32	N/A	GABION

WHERE:

CW = CHANNEL WIDTH
RNR = ROCHESTER NECK ROAD



SECTION C-C'

CULVERT SCHEDULE								
CULVERT	DESCRIPTION	TYPE	DIAMETER (IN)	LENGTH (FT)	SLOPE (FT/FT)	INLET END	OUTLET END	INV. IN (FT)
C-39	TO POND 1	CPP	36	161	0.01	CB-1	GABION	163.0
C-40	TO PARK BASIN	CPP	12	78	0.04	PROJ.	FES	171.0
C-42	FORMER ROCHESTER NECK ROAD (RNR)	CPP	18	65	0.01	PROJ.	PROJ.	131.5
C-43	RNR TO WEST BASIN	CPP	36	80	0.05	PROJ.	FES	164.0
C-46	DROP INLET (DI-1) AT POND 1	BOX	48 x 96	195	0.01	DI	ENDWL	160.0
C-47	GAS RECOVERY FACILITY	CPP	36	280	0.01	PROJ.	CB-1	165.9
C-49	POND 1 INTERIOR BERM	CPP	12	30	0.02	RISER	PROJ.	156.0

NOTES:

- SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

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SCALE AS NOTED



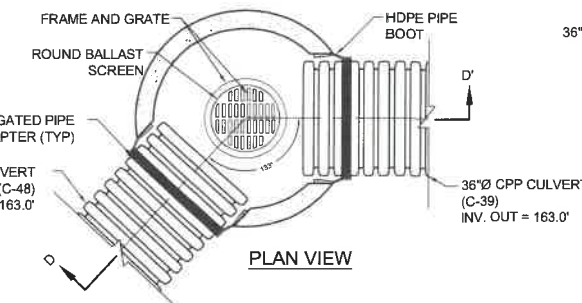
NO. DATE DESCRIPTION BY

DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

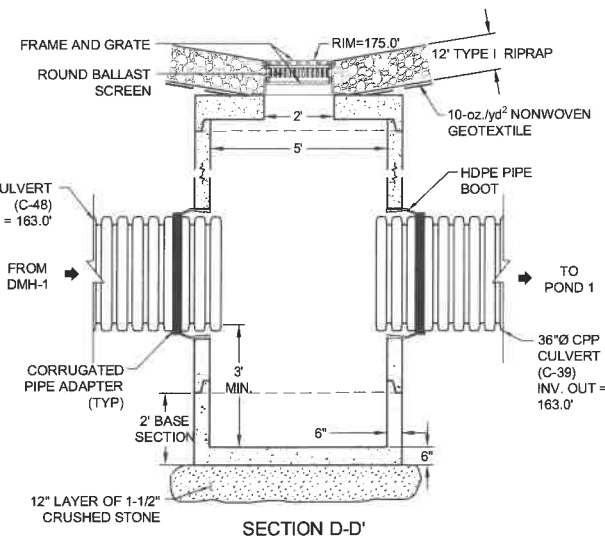
TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

**ROCHESTER NECK ROAD
DETAILS**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
RNR-8



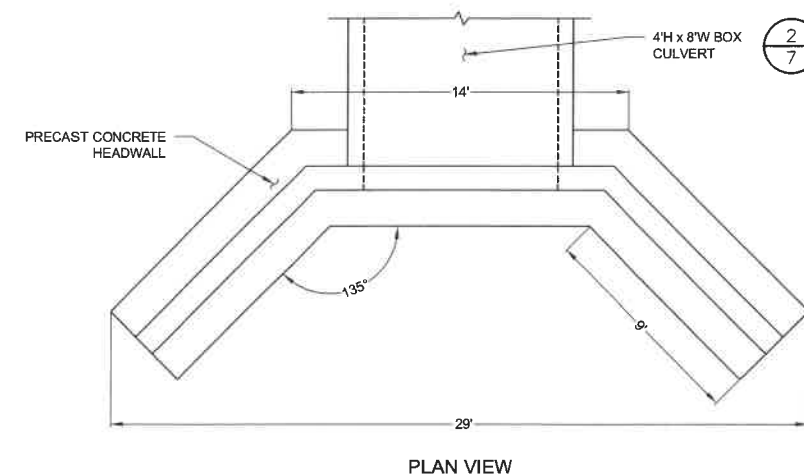
PLAN VIEW



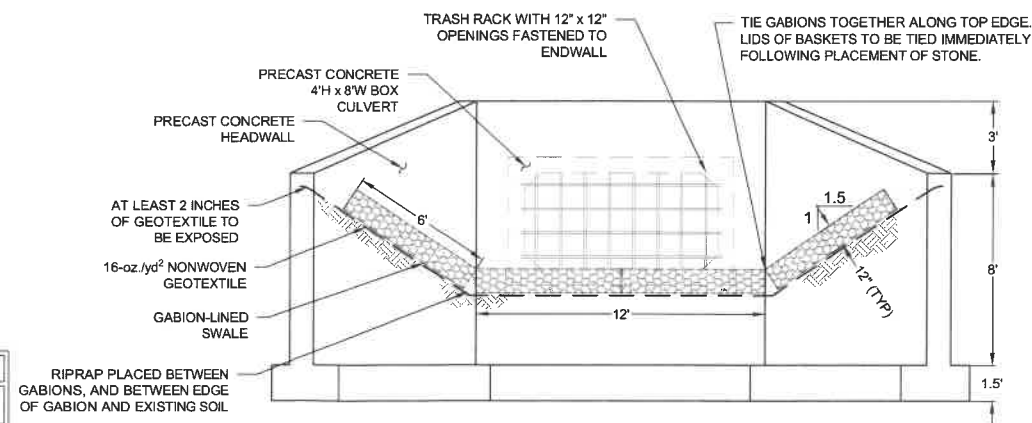
SECTION D-D'

CATCH BASIN (CB-1)

3
NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

POND INLET CULVERT ENDWALL

5
NOT TO SCALE



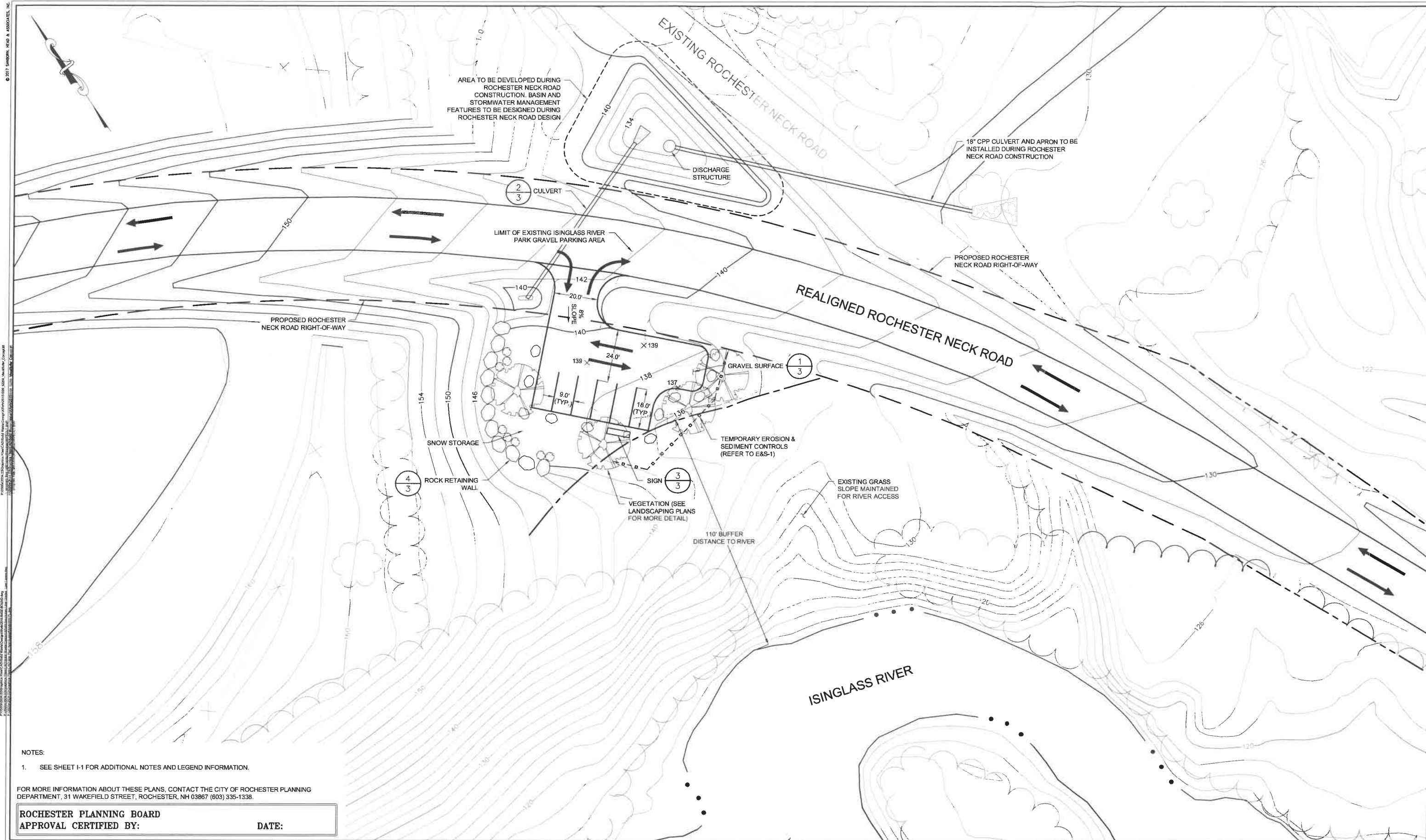
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NO.	DATE	DESCRIPTION	BY

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROJECT NUMBER:	3534.03
SHEET NUMBER:	IRP - 1



NOTES:
1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

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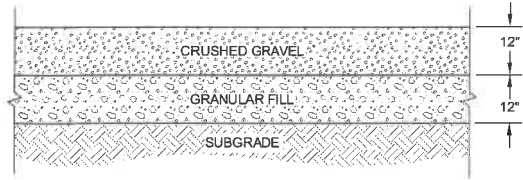
NO.	DATE	DESCRIPTION	BY

DRAWN BY: M. HOCK
DESIGNED BY: M. HOCK
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

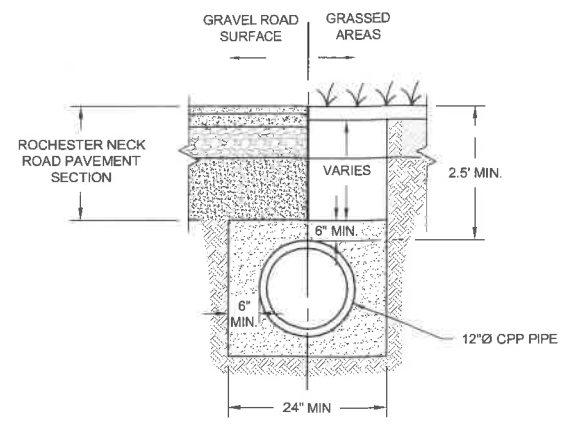
TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
**ISINGLASS RIVER PARK MODIFICATION
PROPOSED SITE PLAN**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
IRP - 2

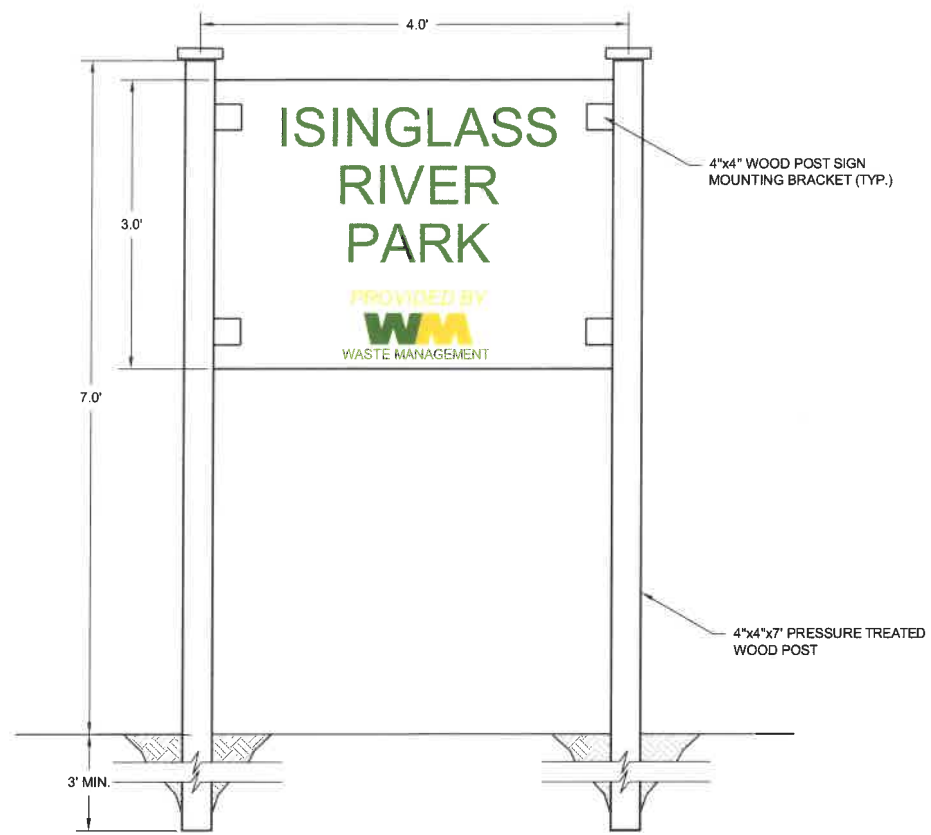
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1 GRAVEL SURFACE SECTION
NOT TO SCALE

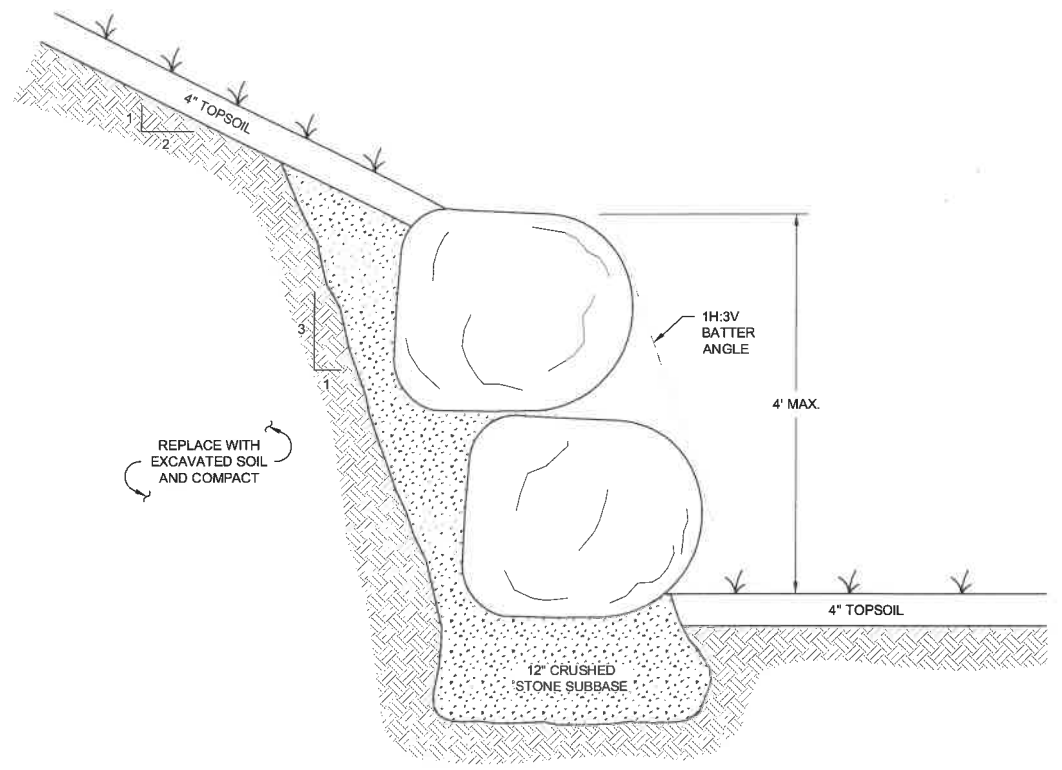


2 CULVERT SECTION
NOT TO SCALE



3 ISINGLASS RIVER PARK SIGN
NOT TO SCALE

NOTE:
1. NEW SIGN TO BE PROVIDED AT PROPOSED LOCATION.



4 ROCK RETAINING WALL
NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____



SCALE AS NOTED

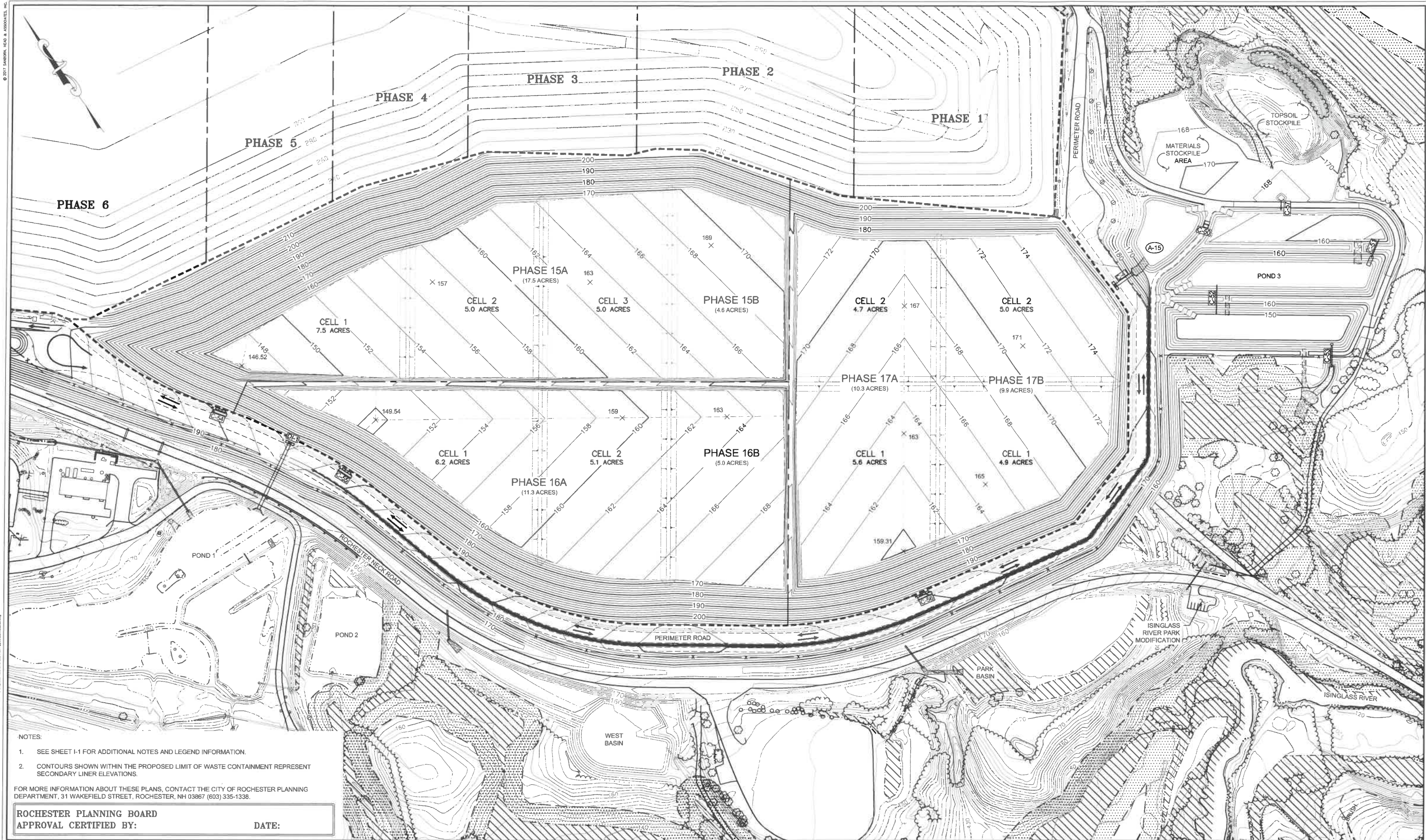


NO.	DATE	DESCRIPTION	BY

DRAWN BY: M. HOCK
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
**ISINGLASS RIVER PARK MODIFICATION
DETAILS**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
IRP - 3



NOTES:

1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.
2. CONTOURS SHOWN WITHIN THE PROPOSED LIMIT OF WASTE CONTAINMENT REPRESENT SECONDARY LINER ELEVATIONS.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

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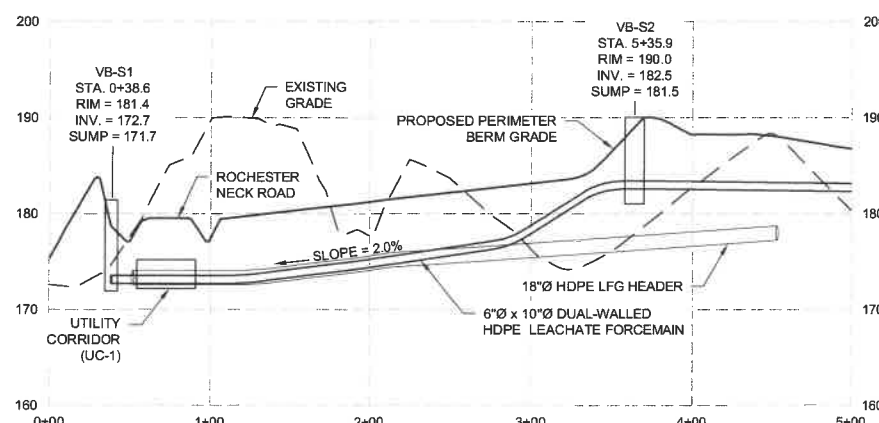
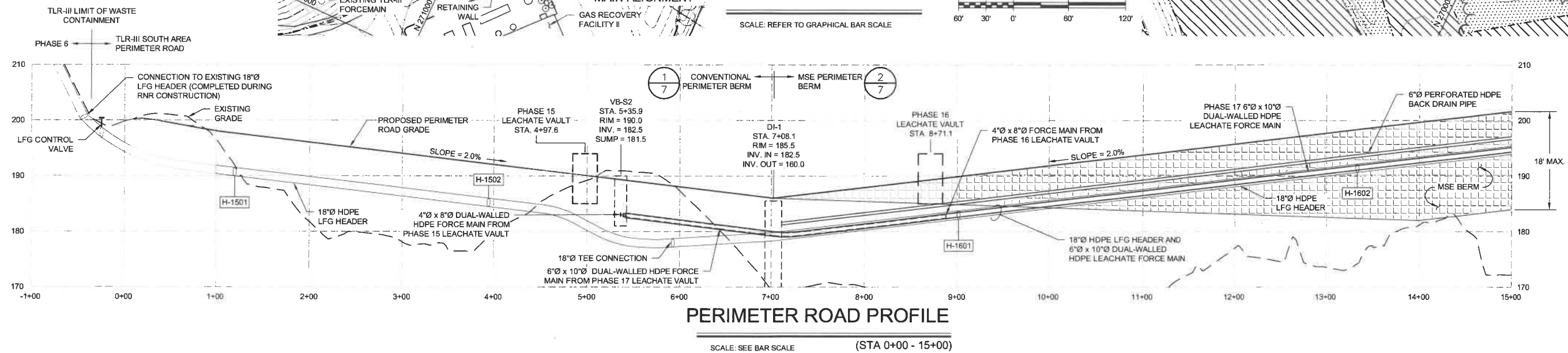
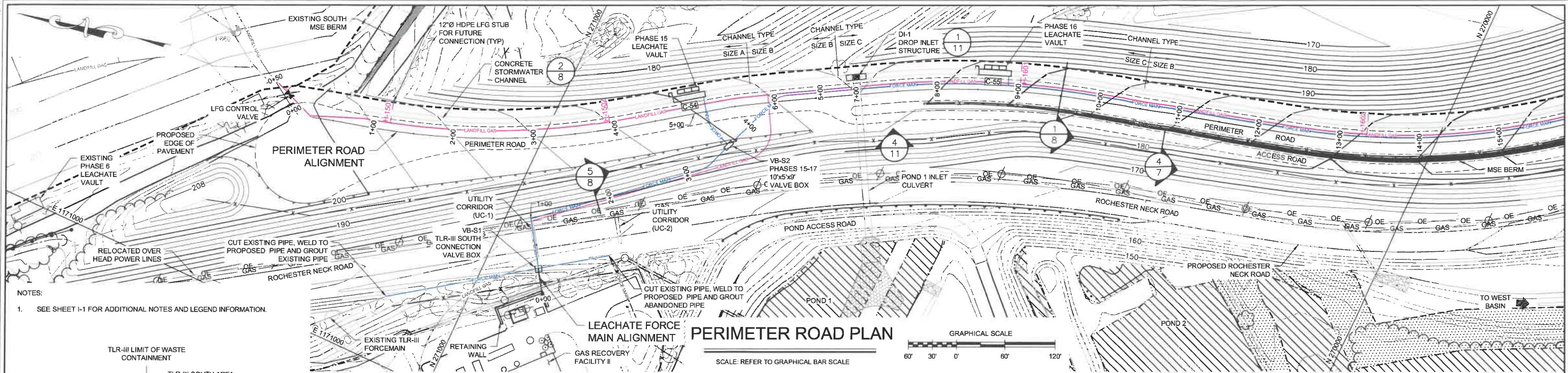
NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

TLR-III SOUTH AREA
PHASE AND CELL PLAN

PROJECT NUMBER:
3534.03
SHEET NUMBER:
TLR3S-2



FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

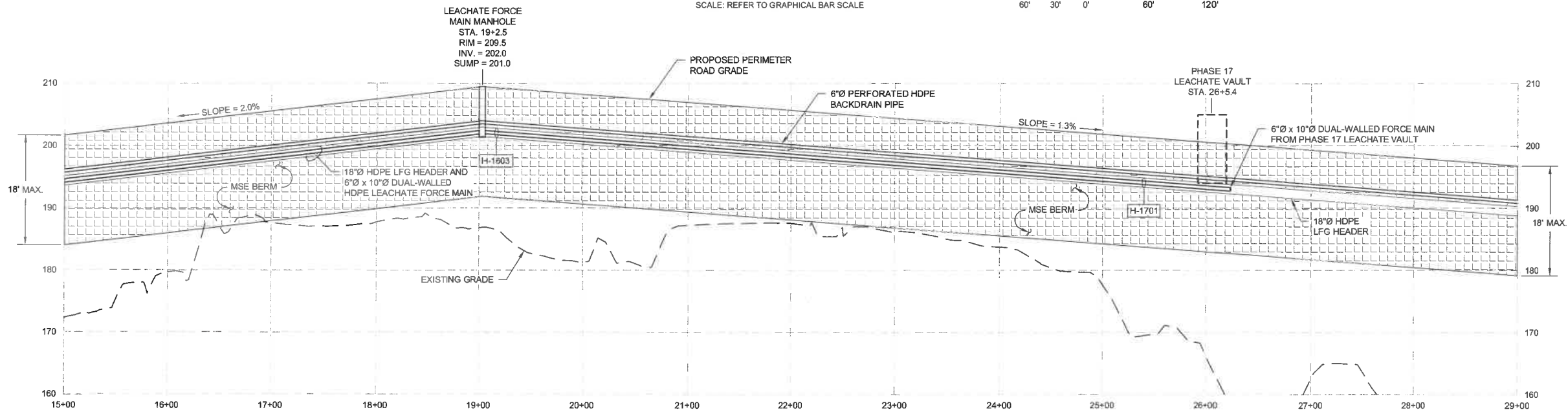
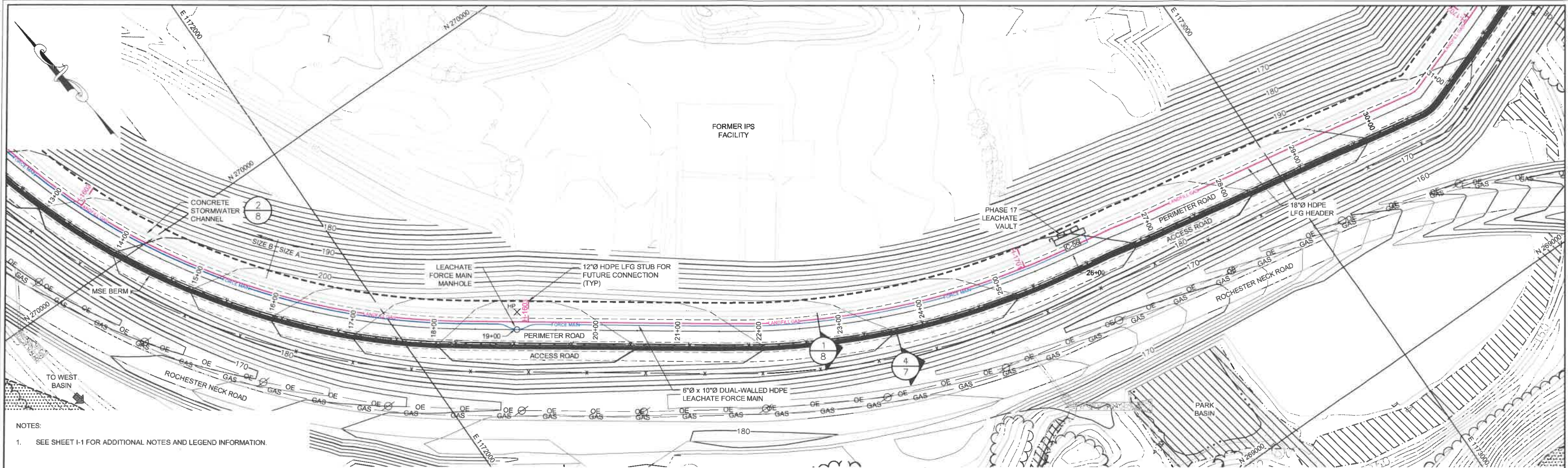
ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

NOTE:

- LEACHATE FORCEMAIN INFRASTRUCTURE SHOWN BETWEEN STATIONS 0+00 AND 1+00 CONSTRUCTED DURING ROCHESTER NECK ROAD CONSTRUCTION

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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____



SCALE AS NOTED



NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED / E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

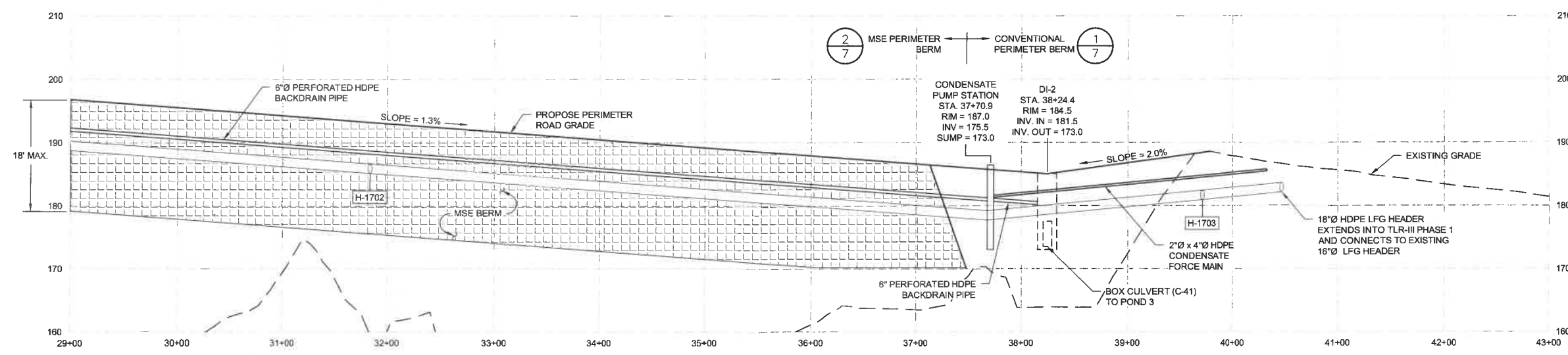
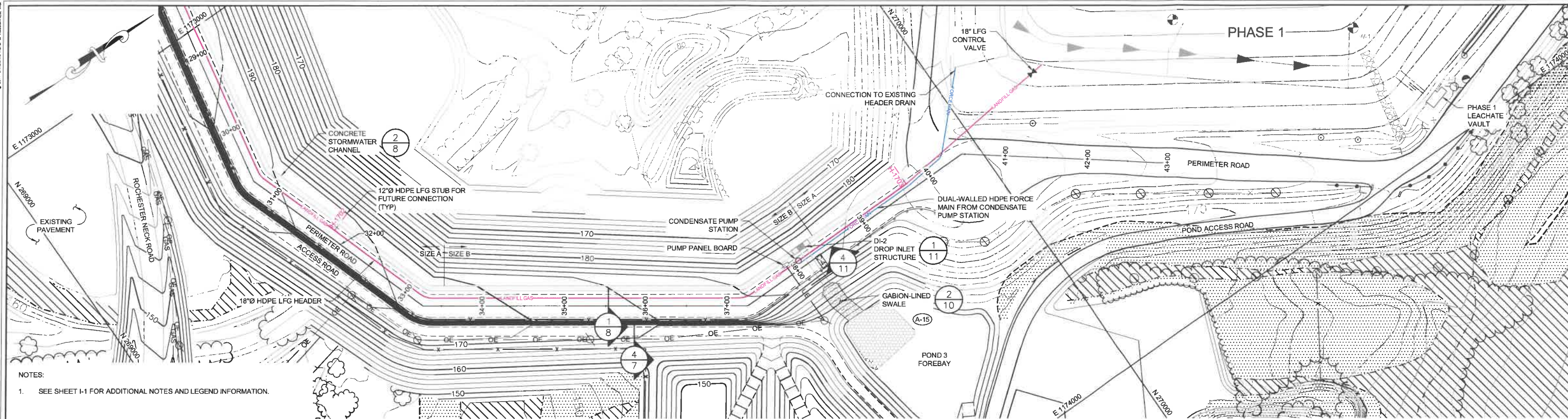
TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

TLR-III SOUTH AREA
INITIAL DEVELOPMENT PLAN AND PROFILE

PROJECT NUMBER:
3534.03

SHEET NUMBER:
TLR3S-4

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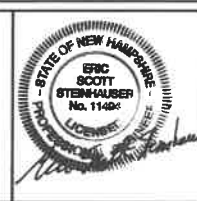


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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____
DATE: _____



SCALE AS NOTED



NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED / E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

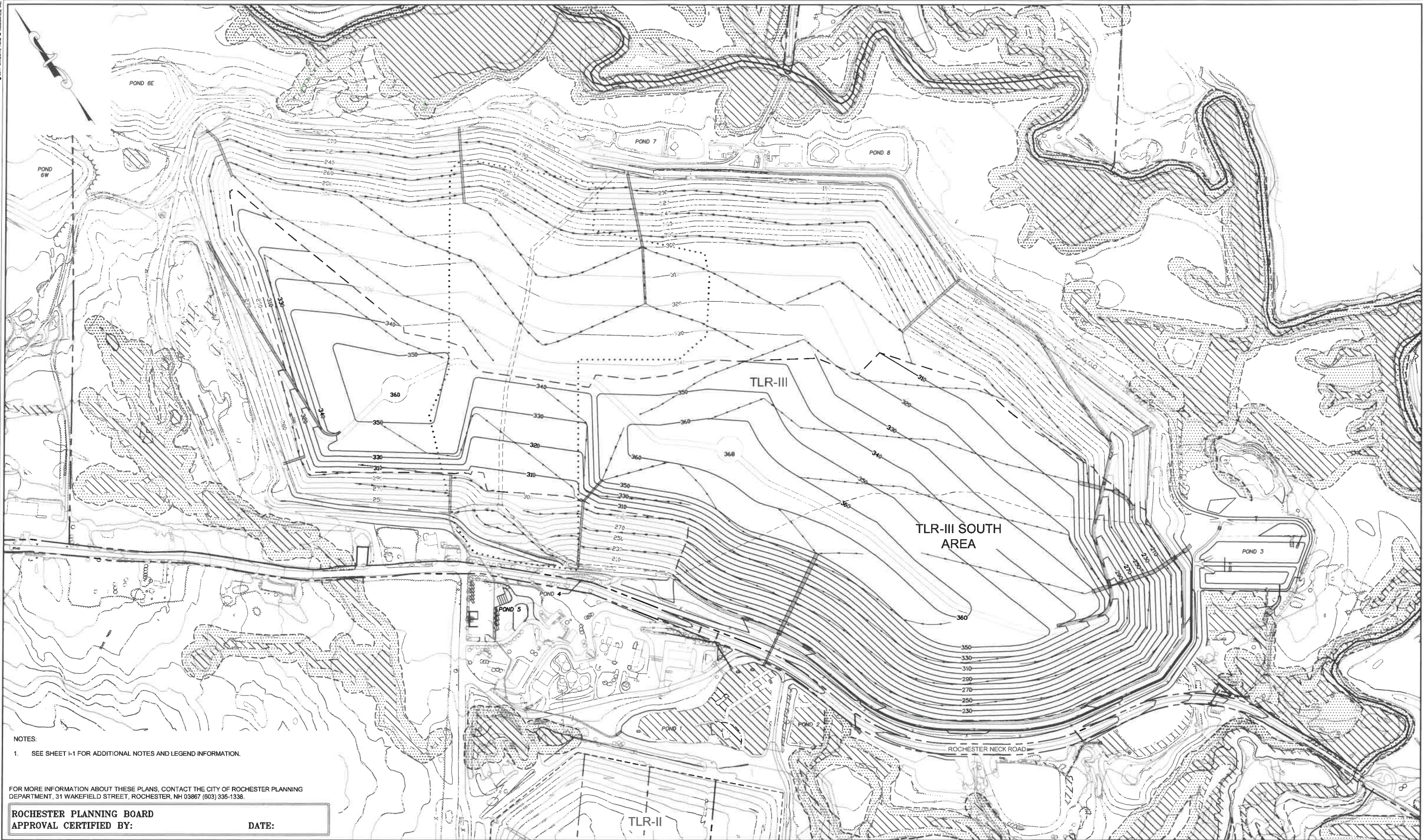
TLR-III SOUTH AREA
INITIAL DEVELOPMENT PLAN AND PROFILE

PROJECT NUMBER:
3534.03

SHEET NUMBER:
TLR3S-5

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UNLESS NOTED OTHERWISE



NOTES:
1. SEE SHEET T-1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION.

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
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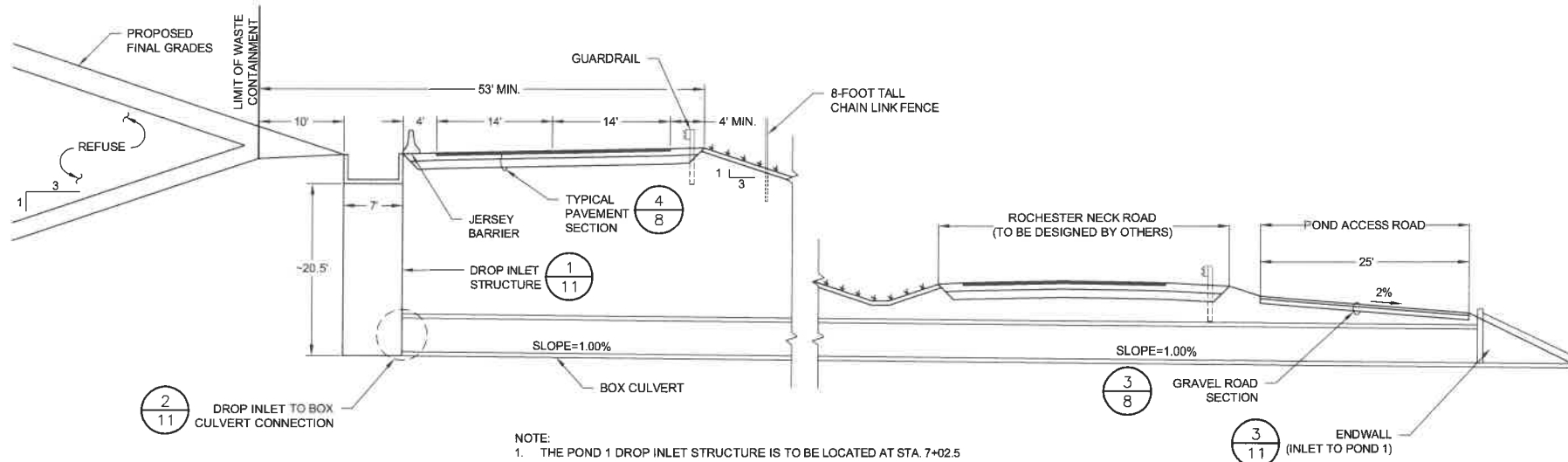
NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

**TLR-III SOUTH AREA
FINAL GRADING PLAN**

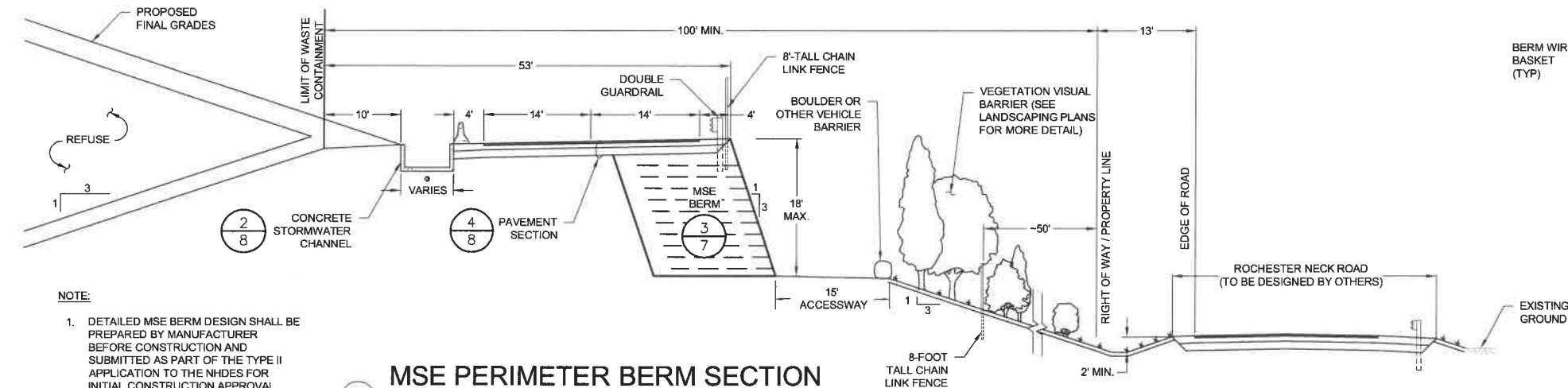
PROJECT NUMBER:
3534.03
SHEET NUMBER:
TLR3S-6



CONVENTIONAL PERIMETER BERM SECTION

NOT TO SCALE

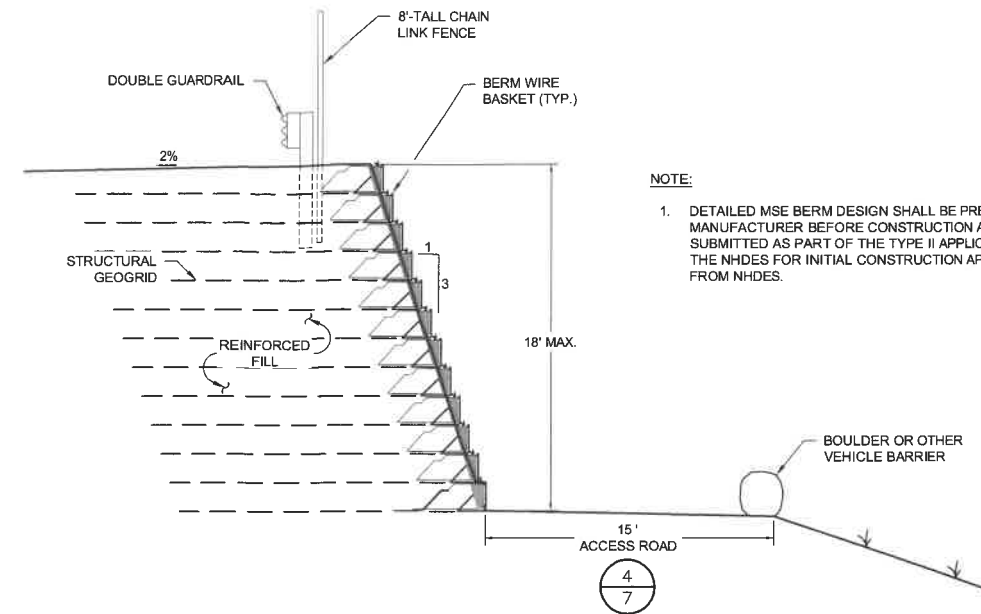
(0+00.0- 7+02.5)



MSE PERIMETER BERM SECTION

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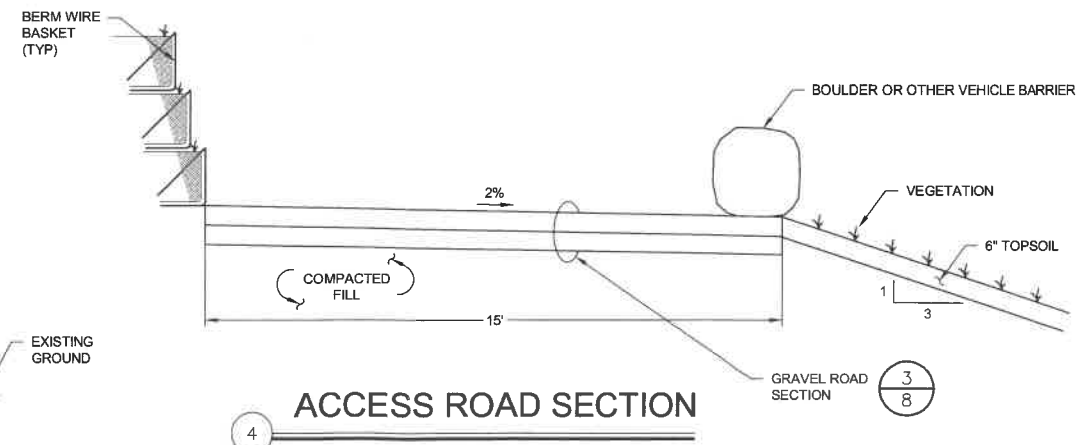
(7+02.5 - 27+27.0)



MSE BERM SECTION

NOT TO SCALE

(27+27.0 - 37+48)



ACCESS ROAD SECTION

NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
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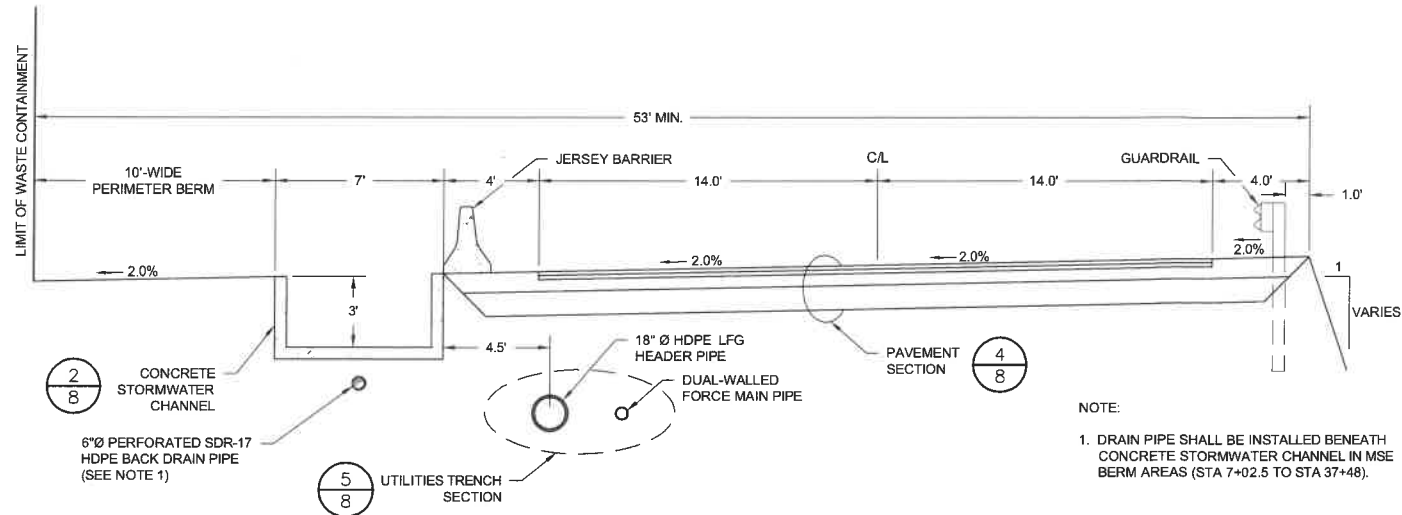
DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
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TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

**TLR-III SOUTH AREA
PERIMETER BERM SECTIONS**

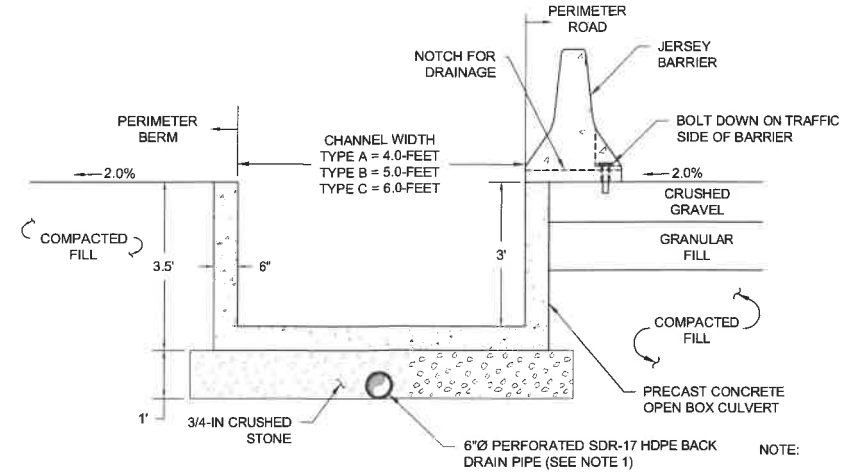
PROJECT NUMBER:
3534.03

SHEET NUMBER:
TLR3S-7



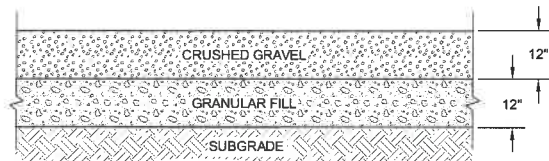
LANDFILL PERIMETER ROAD SECTION

NOT TO SCALE



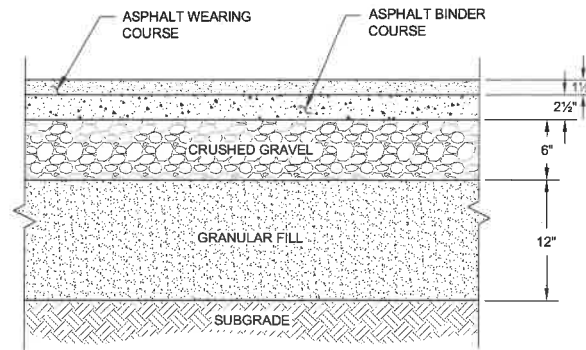
CONCRETE STORMWATER CHANNEL

NOT TO SCALE



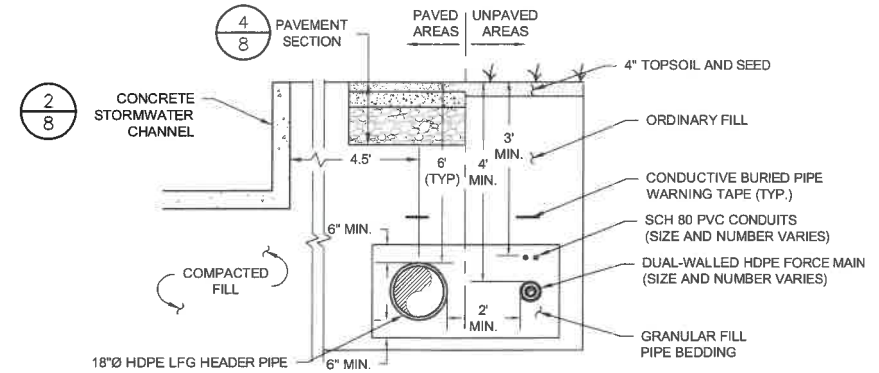
GRAVEL ROAD SECTION

NOT TO SCALE



PAVEMENT SECTION

NOT TO SCALE



UTILITIES TRENCH

NOT TO SCALE

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ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

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NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

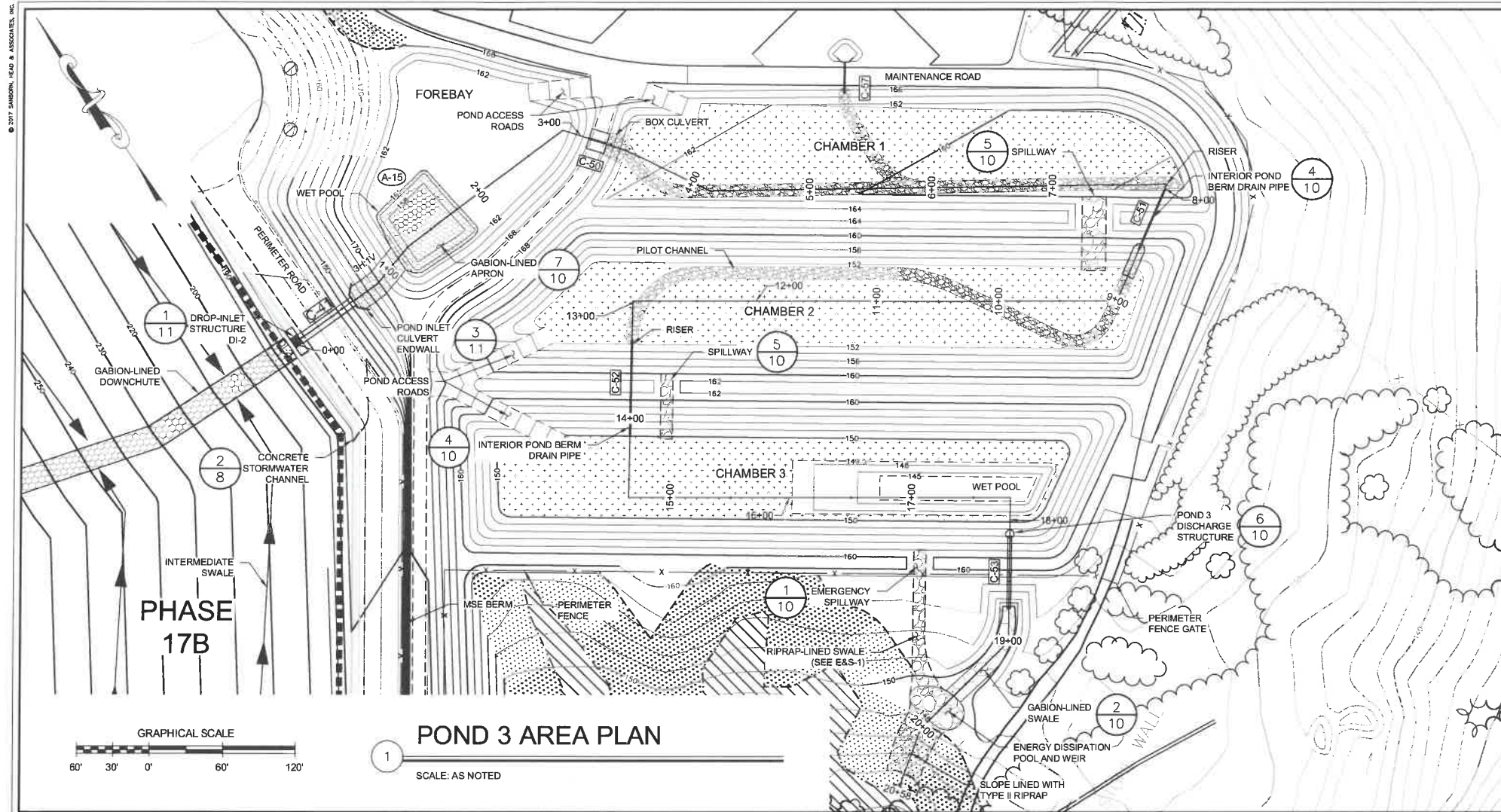
PROJECT NUMBER:

3534.03

TLR-III SOUTH AREA
PERIMETER ROADWAY DETAILS

SHEET NUMBER:

TLR3S-8



POND 3 NOTES:

REFERENCE NOTES:

1. SEE SHEET I-1 FOR ADDITIONAL NOTES AND LEGEND.

GENERAL NOTES:

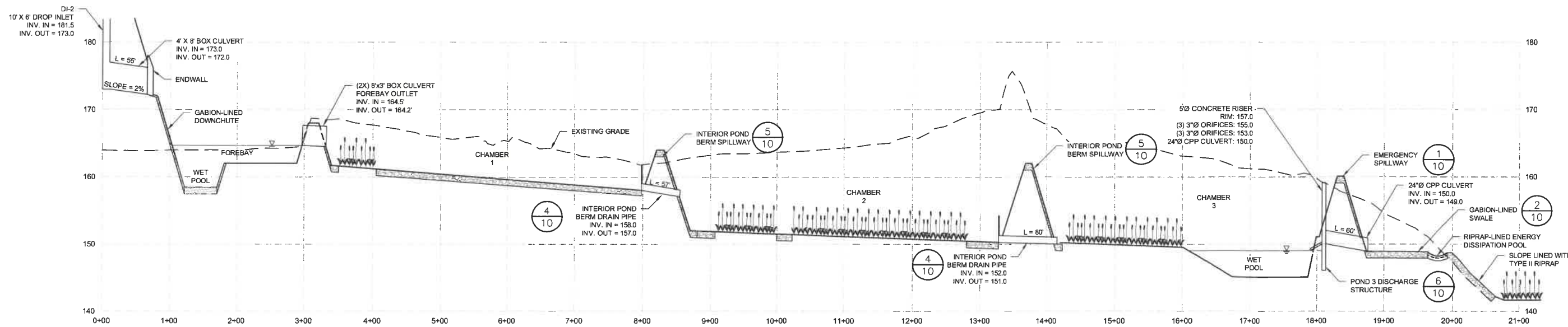
1. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES (BMPs) SPECIFIED IN THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN DEVELOPING AREAS IN NEW HAMPSHIRE" (AUGUST 1992), AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
2. PERMANENT SEEDING SHALL OCCUR BETWEEN APRIL 15TH AND JUNE 15TH, OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH FOR BEST GERMINATION RESULTS. SEEDING SHALL BE OBSERVED FOR SIGNS OF SCORCHING AND RESEEDING AS NECESSARY; AND
3. REMOVE ACCUMULATED SEDIMENT FROM EROSION CONTROL DEVICES WEEKLY OR AS NEEDED.

CONSTRUCTION SEQUENCE:

1. DELINEATE AND DEMARCAT A LIMIT OF DISTURBANCE BASED ON PROPOSED GRADING;
2. STAGE EQUIPMENT AND SUPPLIES WITHIN AREA OF DISTURBANCE;
3. INSTALL PERIMETER EROSION CONTROLS WHERE REQUIRED;
4. GRADE THE BIORETENTION BASIN TO SUBGRADE AND APPLY BIORETENTION SOIL MIX AND TOPSOIL, PER PLAN;
5. CONSTRUCT THE ARMORED SWALE AND OTHER DRAINAGE FEATURES DOWN GRADIENT OF THE BASIN;
6. INSTALL THE BIORETENTION BASIN DISCHARGE STRUCTURE, CELL DRAIN PIPES, AND SPILLWAYS. BLOCK THE OUTLET STRUCTURE AND MANAGE STORMWATER WITHIN THE BASIN UNTIL DOWN GRADIENT SWALES AND FEATURES ARE IN-PLACE AND STABILIZED;
7. SEED AND MULCH DISTURBED AREAS TO ESTABLISH VEGETATION AS FINAL GRADES ARE OBTAINED. PLANT AQUATIC BENCH WITH NEW ENGLAND SEED MIX. RUNOFF SHALL NOT BE DIRECTED TO THE BIORETENTION BASIN UNTIL VEGETATION WITHIN THE BIORETENTION BASIN IS FULLY ESTABLISHED; AND
7. UPON SUCCESSFUL ESTABLISHMENT OF VEGETATION, REMOVE EROSION CONTROLS.

AQUATIC BENCH PLANTINGS:

1. IT IS PROPOSED TO ESTABLISH CATTAILS (TYPHA LATIFOLIA) IN AQUATIC BENCH AREAS WITHIN THE STORMWATER BASINS. CATTAILS ARE AN AGGRESSIVE PLANT SPECIES AND OFTEN QUICKLY BECOME THE DOMINANT VEGETATION IN STORMWATER DETENTION BASINS EVEN WHEN NOT INTENTIONALLY ESTABLISHED. CATTAILS ARE TOLERANT TO INUNDATION AND PROVIDE HIGH POLLUTANT TREATMENT.
2. CATTAIL ROOTS SHOULD BE PLANTED 3 FEET APART ON THE AQUATIC BENCH. PLANT MATERIALS SHOULD CONFORM TO THE AMERICAN STANDARD NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. THE PLANTING SOIL SHOULD CONSIST OF A MIX OF SOIL/TOPSOIL PLACED IN A LOOSELY TAMPED LAYER OF ABOUT 12 INCHES THICK. THE PLANTING SOIL SHOULD BE FILL MATERIAL WITHIN THE SM OR ML CLASSIFICATIONS OF THE UNIFIED SOIL CLASSIFICATION SYSTEM AND SHOULD BE FREE OF STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1 INCH IN DIAMETER.
3. THE PLANTING AREA SHOULD BE PREPARED DURING BASIN CONSTRUCTION BEFORE WATER LEVELS ARE ALLOWED TO RISE. PLANTS SHOULD BE ESTABLISHED FROM BARE ROOT STOCK DURING THE SPRING OR SUMMER GROWING SEASON. GIVEN THE HEARTY NATURE OF THE SPECIFIED PLANTS, IT IS EXPECTED THAT LITTLE MAINTENANCE WILL BE REQUIRED. THE PLANTED AREA SHOULD BE OBSERVED IN THE SECOND GROWING SEASON. THE CONTRACTOR SHALL BE REQUIRED TO SUPPLEMENT WITH ADDITIONAL PLANTINGS IF THE SURVIVAL RATE IS LESS THAN 80 PERCENT.



FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03667 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

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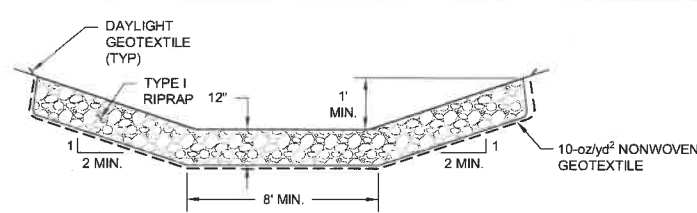
NO.	DATE	DESCRIPTION	BY
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DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

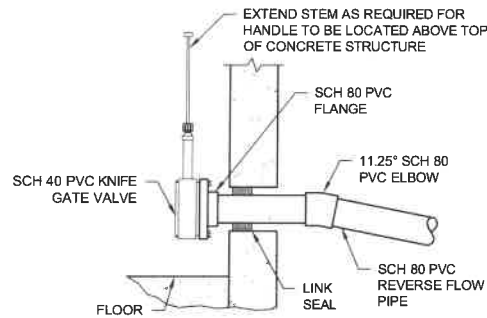
**TLR-III SOUTH AREA
POND 3 PLAN AND PROFILE**

PROJECT NUMBER:
3534.03
SHEET NUMBER:
TLR3S-9



EMERGENCY SPILLWAY

1
NOT TO SCALE

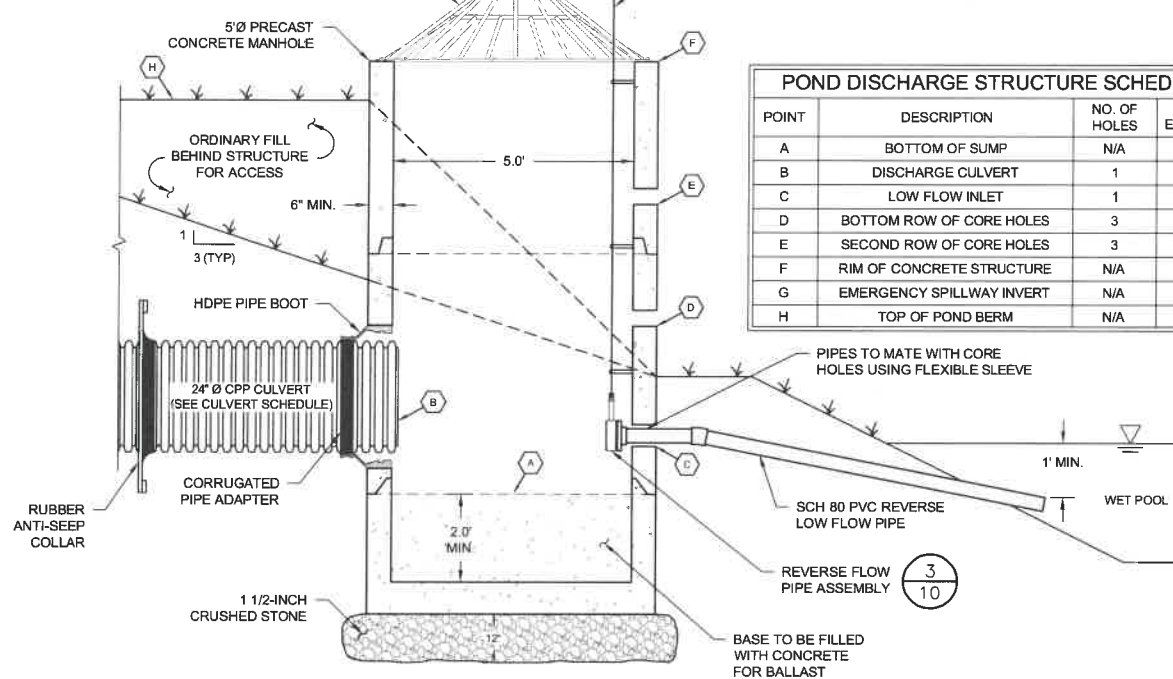


REVERSE FLOW PIPE ASSEMBLY

3
NOT TO SCALE

TOP-MOUNTED CONE GRATE TRASH RACK BY HAALA INDUSTRIES OF SLEEPY EYE, MN OR EQUIVALENT APPROVED BY THE ENGINEER

EXTEND VALVE HANDLE AS NEEDED TO MAKE ACCESSIBLE FROM OUTSIDE THE STRUCTURE



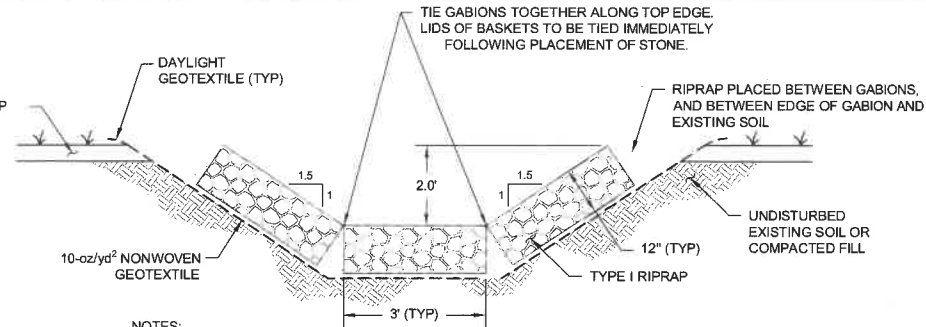
POND 3 DISCHARGE STRUCTURE

6
NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03667 (603) 335-1338.

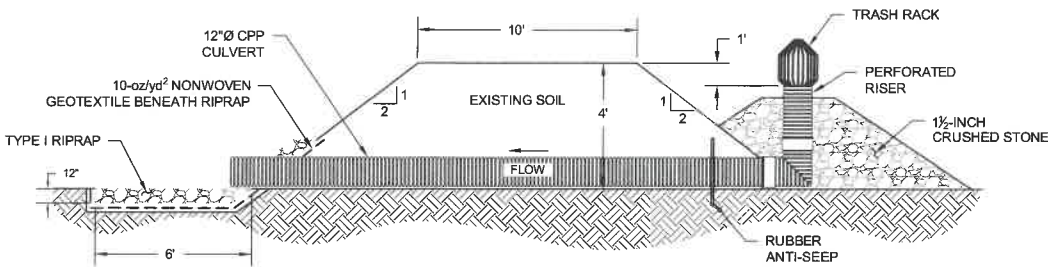
ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:



GABION-LINED SWALE

2
NOT TO SCALE (OUTSIDE WASTE LIMITS)



INTERIOR POND BERM PIPE DRAIN

4
NOT TO SCALE

POND DISCHARGE STRUCTURE SCHEDULE

POINT	DESCRIPTION	NO. OF HOLES	INVERT ELEV. (FT)
A	BOTTOM OF SUMP	N/A	149.0
B	DISCHARGE CULVERT	1	150.0
C	LOW FLOW INLET	1	150.0
D	BOTTOM ROW OF CORE HOLES	3	153.0
E	SECOND ROW OF CORE HOLES	3	155.0
F	RIM OF CONCRETE STRUCTURE	N/A	157.0
G	EMERGENCY SPILLWAY INVERT	N/A	159.0
H	TOP OF POND BERM	N/A	160.0

PIPES TO MATE WITH CORE HOLES USING FLEXIBLE SLEEVE

SCH 80 PVC REVERSE LOW FLOW PIPE

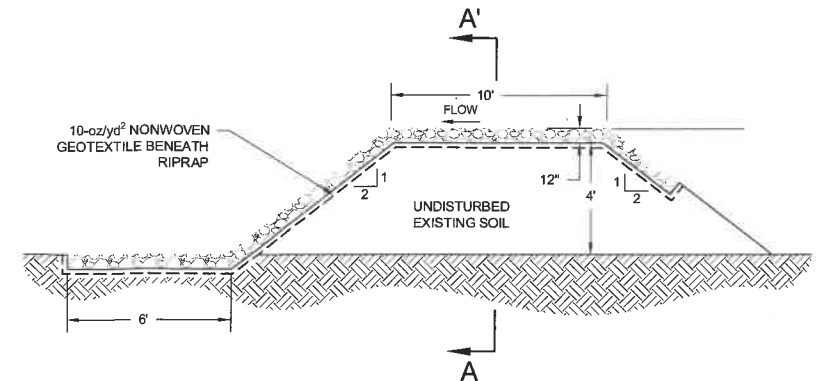
REVERSE FLOW PIPE ASSEMBLY

BASE TO BE FILLED WITH CONCRETE FOR BALLAST

NEW ENGLAND WET MIX

COMMON NAME (SCIENTIFIC NAME)	NWI RATING	COMMENTS
LURID SEDGE (CAREX LURIDA)	OBL	A LOW GROUND COVER THAT TOLERATES VARYING HYDROLOGY, PROLIFIC SEEDER IN SECOND GROWING SEASON
FOWL MEADOW GRASS (GLYCERIA CANADENSIS)	OBL	PROLIFIC SEED PRODUCER THAT IS A VALUABLE WILDLIFE FOOD SOURCE
FRINGED SEDGE (CAREX CRINITA)	OBL	A MEDIUM TO LARGE SEDGE THAT TOLERATES SATURATED AREAS, GOOD SEED PRODUCER
JOE-PYE WEED (EUPATORIUM MACULATUS)	FACW	FLOWERING PLANT THAT IS VALUABLE FOR WILDLIFE COVER, GROWS TO 3 FEET
BROOM SEDGE (CAREX SPP., OVALES GROUP)	FACW-OBL	TOLERATES A WIDE RANGE OF HYDROLOGIC CONDITIONS
SOFT RUSH (JUNCUS EFFASUS)	FACW+	PROVIDES GOOD WILDLIFE COVER, TOLERATES A VARIETY OF HYDROLOGIC CONDITIONS
WOOLGRASS (SCIRPUS CYPERINUS)	FACW+	TOLERATES FLUCTUATING HYDROLOGY
BONESET (EUPATORIUM PERFOLIATUM)	FACW+	FLOWERING PLANT THAT IS VALUABLE FOR WILDLIFE COVER, GROWS TO 3 FEET
TUSSOCK SEDGE (CAREX STRIATA)	OBL	CREATES ELEVATED HUMMOCKS ON WET SITES, MAY REMAIN LEVEL ON DRIER SITES
BLUE VERNAIN (VERBENA HASTATN)	FACW+	A NATIVE PLANT THAT BEARS ATTRACTIVE BLUE FLOWERS

NOTE: NEW ENGLAND WET MIX TO BE APPLIED ON AQUATIC BENCHES WITHIN STORMWATER BASINS.



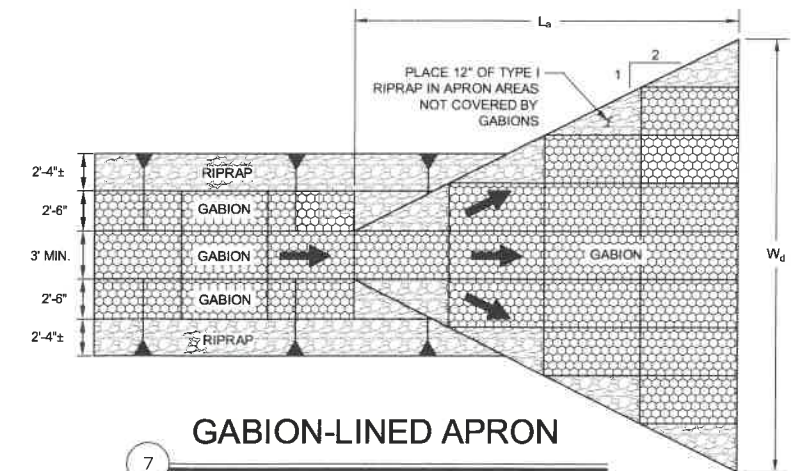
SECTION A-A: SECTION THROUGH RIPRAP-LINED SPILLWAY

INTERIOR POND BERM SPILLWAY

5
NOT TO SCALE

SPILLWAY CHAMBER SCHEDULE

CHAMBER	T (FT)	W (FT)
1-2	2.5	20
2-3	1	10



GABION-LINED APRON

7
NOT TO SCALE

NOTES:

- GABION BASKETS SHALL BE 12 INCHES HIGH BY 3 FEET WIDE BY 6 FEET LONG. THE STONE SIZE SHALL MEET THE REQUIREMENTS OF TYPE I RIPRAP.
- REFER TO THE APRON SCHEDULE FOR DIMENSIONS AND TYPE OF RIPRAP.
- REFER TO SPECIFICATION 02300 FOR TYPE I RIPRAP GRADATION REQUIREMENTS.

APRON SCHEDULE

APRON	CULVERT	DESCRIPTION	L _a (FT)	W _d (FT)	RIPRAP TYPE
A-15	C-41	INLET TO POND 3	65	90	GABION

SANBORN HEAD

SCALE: AS NOTED



DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED / E. GALVIN
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

TLR-III SOUTH AREA
STORMWATER MANAGEMENT DETAILS

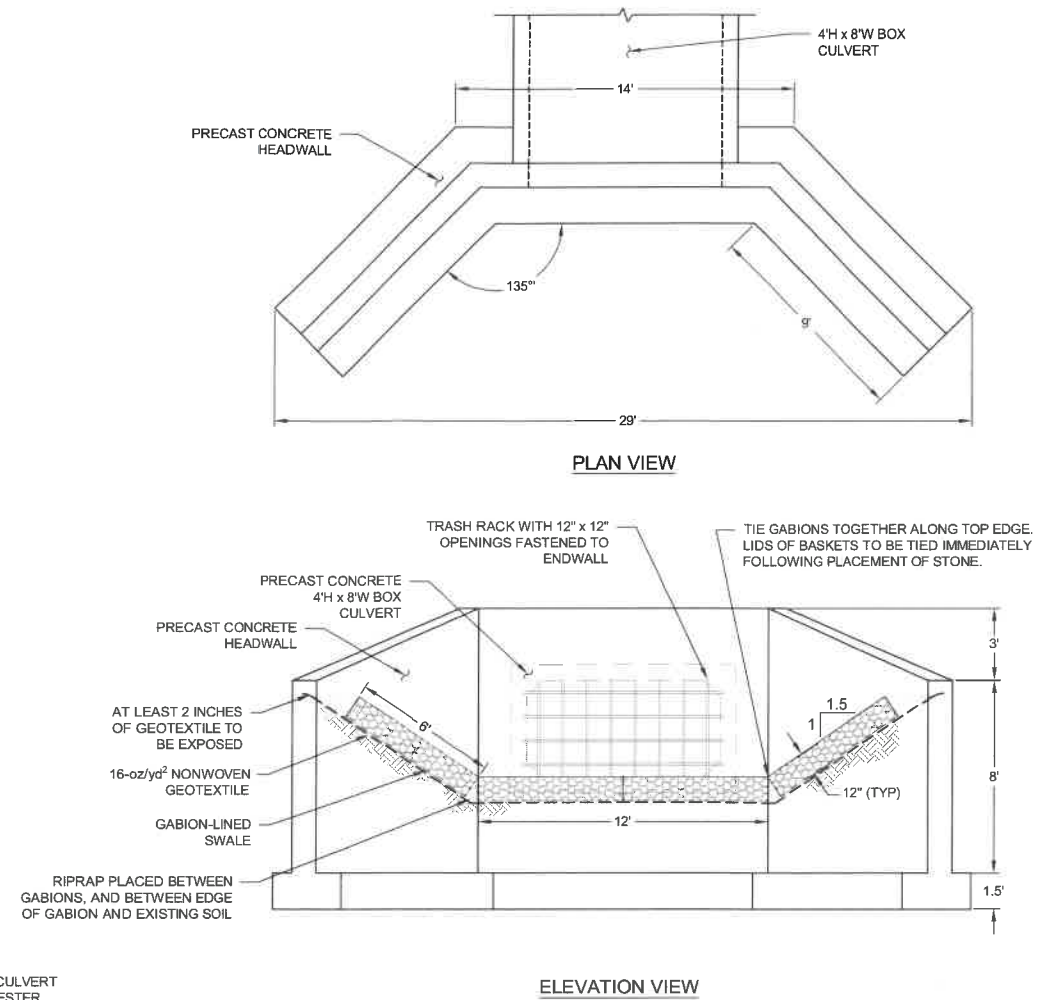
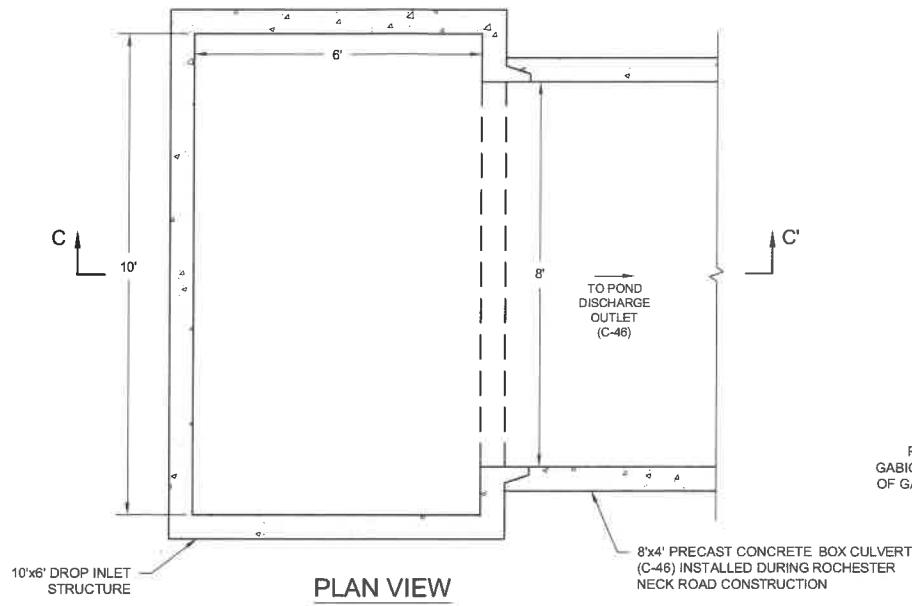
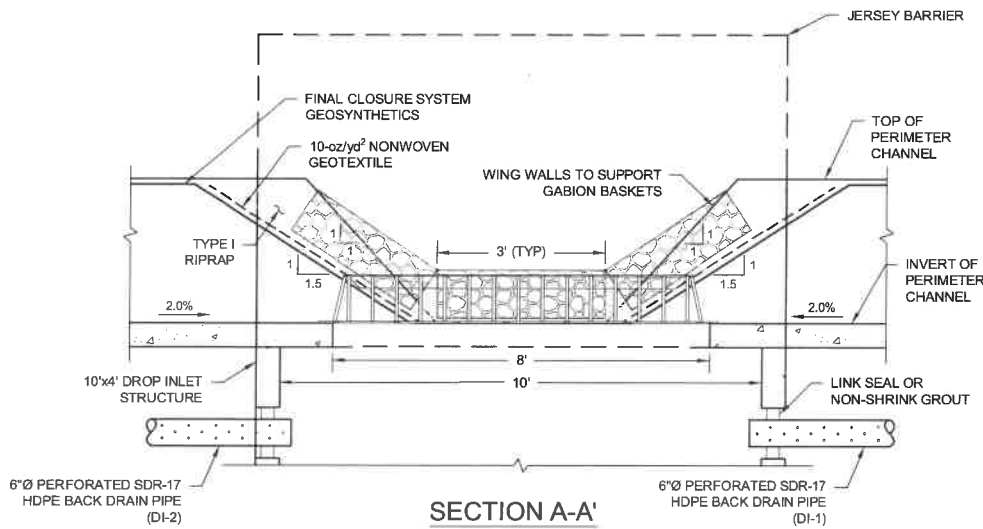
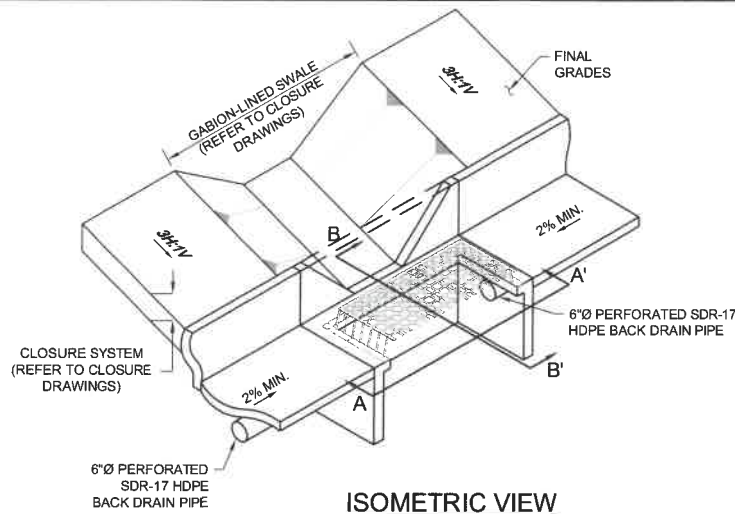
PROJECT NUMBER:

3534.03

SHEET NUMBER:

TLR3S-10

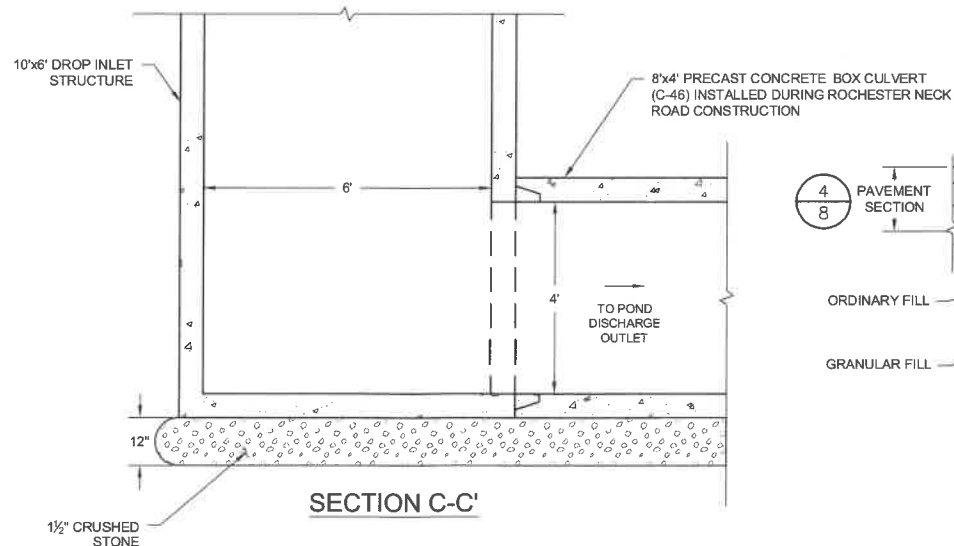
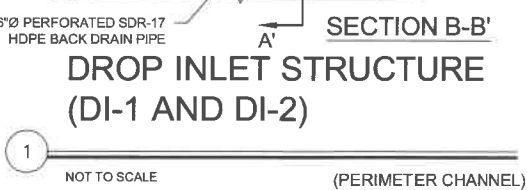
CULVERT SCHEDULE								
CULVERT	DESCRIPTION	TYPE	DIAMETER (IN)	LENGTH (FT)	SLOPE (FT/FT)	INLET END	OUTLET END	INV. IN (FT)
C-41	DROP INLET (DI-2) AT POND 3	BOX	48 x 96	55	0.01	DI	ENDWL	173.0
C-50	POND 3 FOREBAY OUTLET	BOX	36 x 96 (2X)	25	0.01	PROJ.	PROJ.	164.2
C-51	POND 3 INTERIOR BERM	CPP	12	54	0.02	RISER	PROJ.	158.0
C-52	POND 3 INTERIOR BERM	CPP	12	80	0.01	RISER	PROJ.	152.0
C-54	PHASE 15 LEACHATE VAULT	BOX	36 x 48	50	0.02	PC	PC	190.1
C-55	PHASE 16 LEACHATE VAULT	BOX	36 x 72	50	0.02	PC	PC	189.3
C-56	PHASE 17 LEACHATE VAULT	BOX	36 x 48	50	0.01	PC	PC	200.4
C-57	TO POND 3 CHAMBER 1	CPP	12	26	0.04	HDWL	PROJ.	166.0
								165.0



POND INLET CULVERT ENDWALL

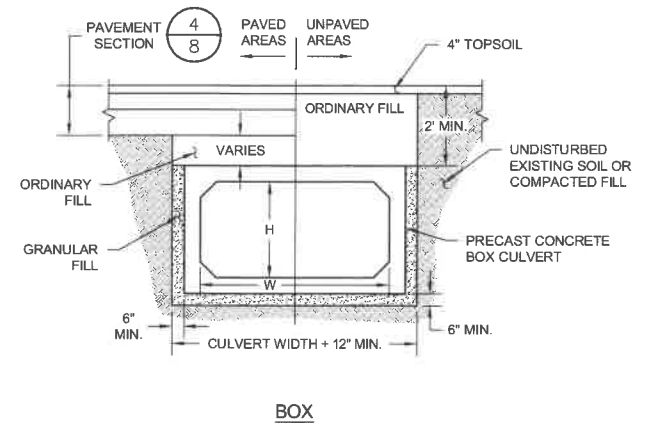
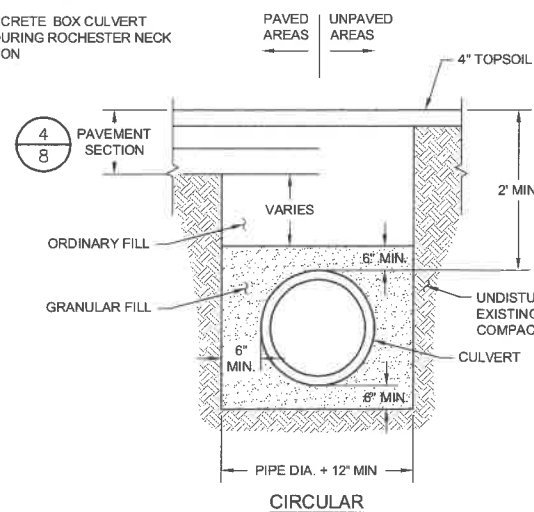
3
NOT TO SCALE

- NOTES:
- CONSTRUCT INVERT AS NECESSARY TO ALLOW GEOSYNTHETICS BELOW GABION BASKETS TO EXTEND 6 INCHES INTO DROP INLET STRUCTURE.
 - DRAIN PIPE SHALL BE INSTALLED BENEATH CONCRETE STORMWATER CHANNEL IN MSE BERM AREAS (STA 7+02.5 TO STA 37+48).



DROP INLET STRUCTURE

2
NOT TO SCALE (BASE)



CULVERT SECTION

4
NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____

SANBORN HEAD

SCALE: AS NOTED



NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: E. GALVIN / T. REED
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

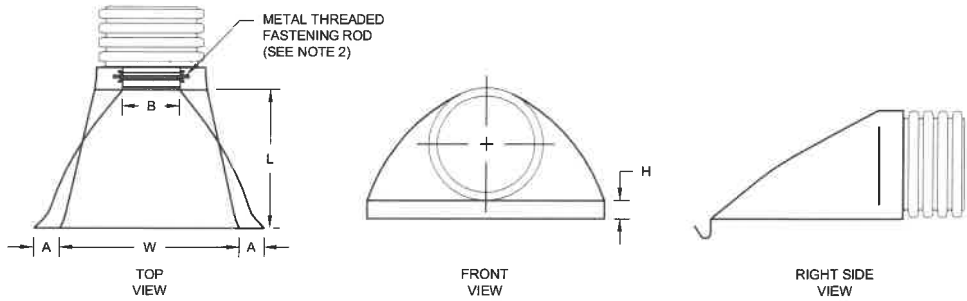
TLR-III SOUTH AREA
STORMWATER MANAGEMENT DETAILS

PROJECT NUMBER:
3534.03
SHEET NUMBER:
TLR3S-11

CSA - 3

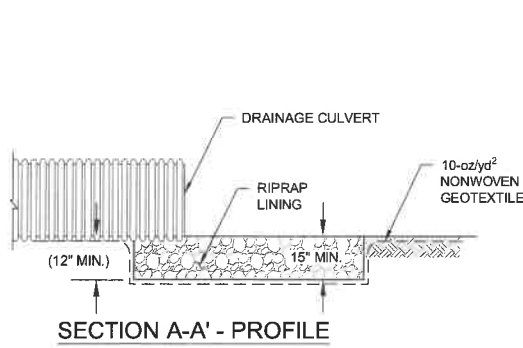
HDPE FLARED END SECTION DIMENSIONS TABLE					
DIAMETER (INCHES)	A (INCHES)	B (INCHES)	H (INCHES)	L (INCHES)	W (INCHES)
36	7.5	25.0	8.6	58.0	63.0

- 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.

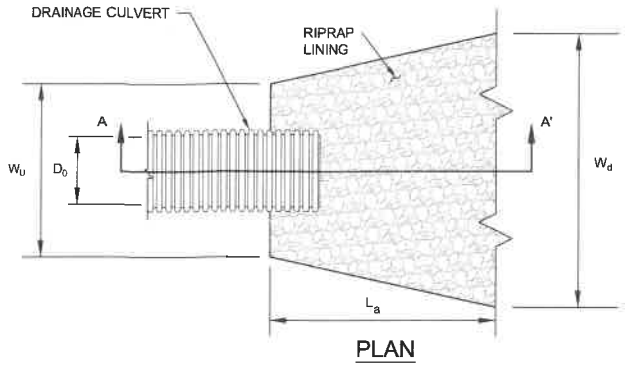


FLARED END SECTION

1
NOT TO SCALE



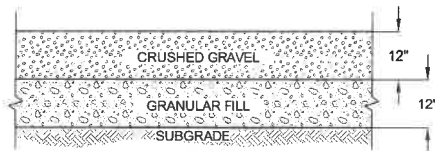
WHERE:
D₀ = CHANNEL DEPTH
W_u = UPGRADIENT APRON WIDTH
L_a = APRON LENGTH
W_d = DOWNGRADIENT APRON WIDTH
d₅₀ = REQUIRED SIZE OF 50% (BY WEIGHT) OF THE RIPRAP STONE
h = MINIMUM RIPRAP BLANKET THICKNESS



RIPRAP OUTLET PROTECTION APRON SCHEDULE						
APRON	D ₀ (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

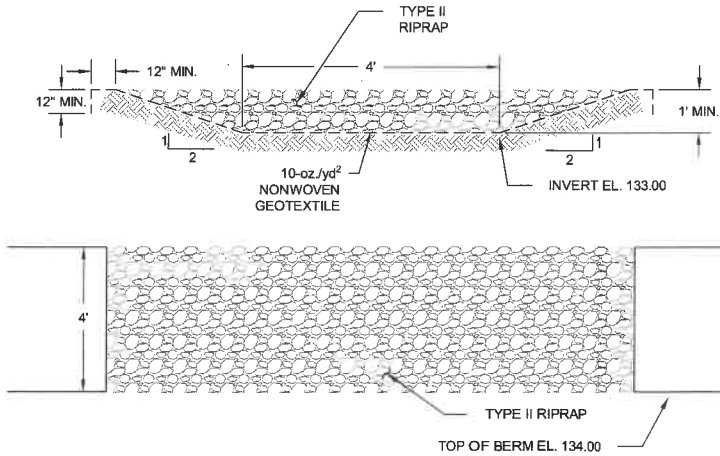
OUTLET PROTECTION APRON DETAIL

2
NOT TO SCALE



GRAVEL SECTION

3
NOT TO SCALE



SPILLWAY DETAIL

4
NOT TO SCALE

FOR MORE INFORMATION ABOUT THESE PLANS, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY: _____ DATE: _____



SCALE: AS NOTED



NO.	DATE	DESCRIPTION	BY

DRAWN BY: D. LONG
DESIGNED BY: D. LONG
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE
CONTAINER STORAGE AREA
STORMWATER MANAGEMENT DETAILS

PROJECT NUMBER:
3534.03
SHEET NUMBER:
CSA - 4

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 OF 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, 31 WAKEFIELD STREET, ROCHESTER, NH 03867 (603) 335-1338.

ROCHESTER PLANNING BOARD
APPROVAL CERTIFIED BY:

DATE:

SANBORN HEAD

SCALE: AS NOTED



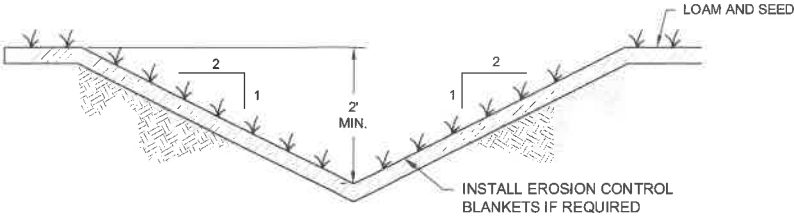
NO.	DATE	DESCRIPTION	BY

DRAWN BY: A. MATTHEWS
DESIGNED BY: T. REED
REVIEWED BY: E. GALVIN
PROJECT MGR: T. REED
PIC: E. STEINHAUSER
DATE: OCTOBER 2017

TLR-III SOUTH AREA SITE PLAN APPLICATION
TLR-III REFUSE DISPOSAL FACILITY
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

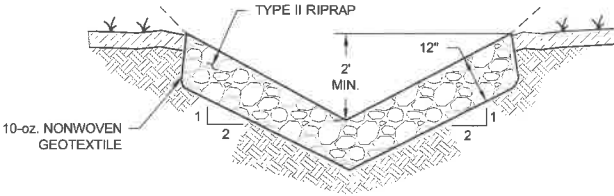
EROSION & SEDIMENTATION
CONTROL DETAILS

PROJECT NUMBER:
3534.03
SHEET NUMBER:
E&S - 1



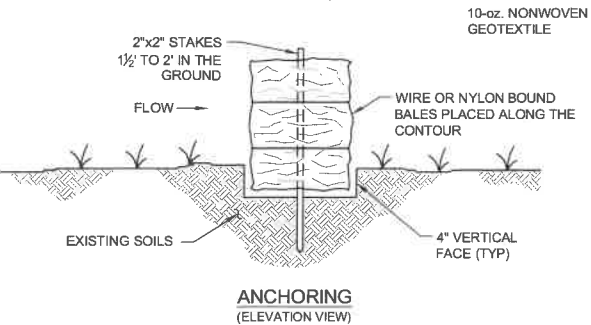
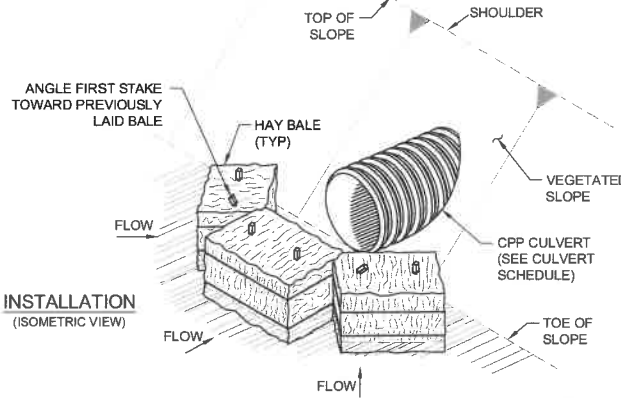
GRASS-LINED SWALE SWALE

1 NOT TO SCALE



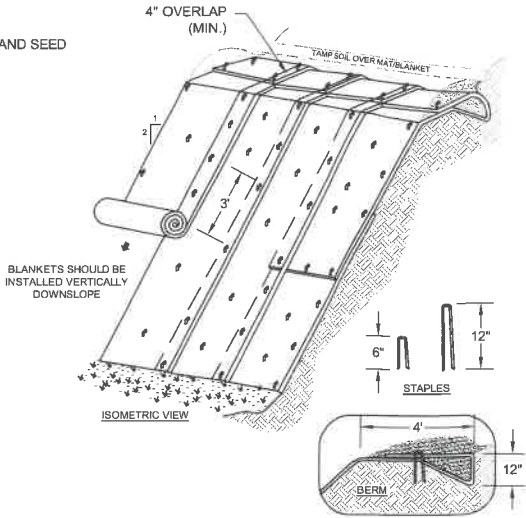
RIPRAP-LINED SWALE SECTION

2 NOT TO SCALE



TEMPORARY HAY BALE INLET PROTECTION

5 NOT TO SCALE



SLOPE INSTALLATION

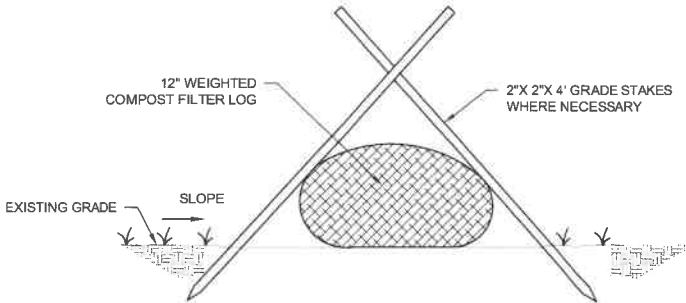
SLOPE INSTALLATION NOTES:

- 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/BLANKETS 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.

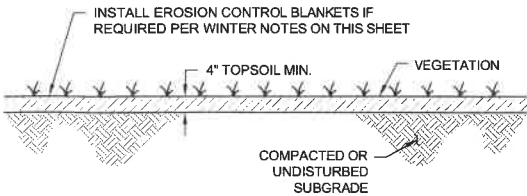
EROSION CONTROL BLANKET INSTALLATION

3 NOT TO SCALE



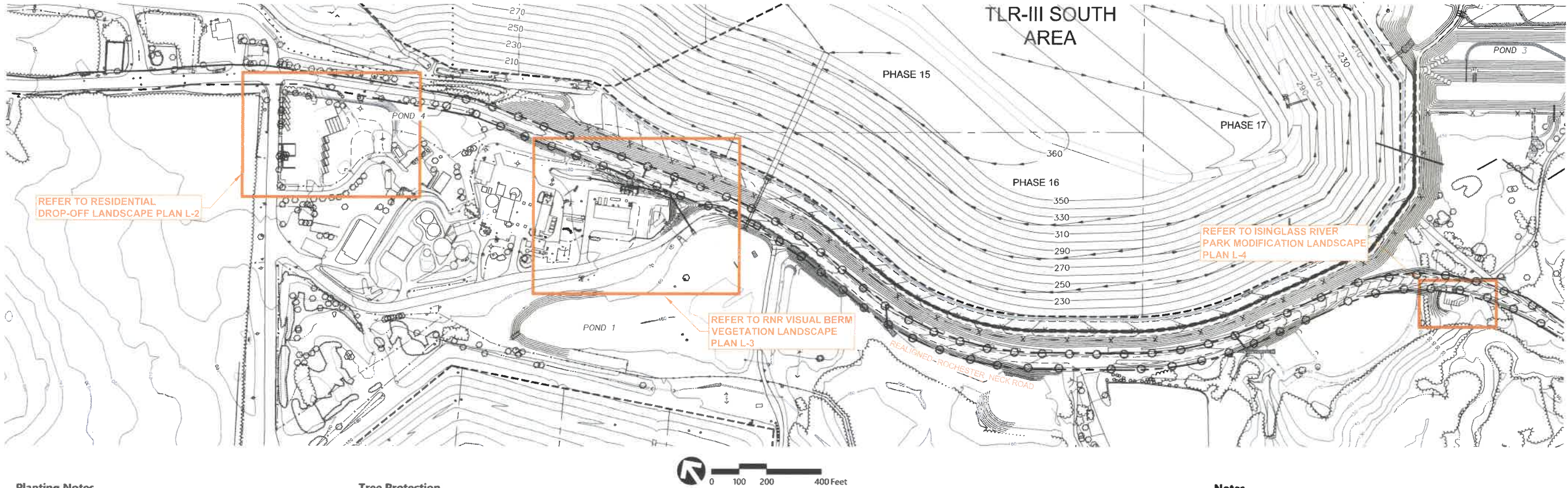
FILTER LOG

4 NOT TO SCALE



LOAM AND SEED

6 NOT TO SCALE



Planting Notes

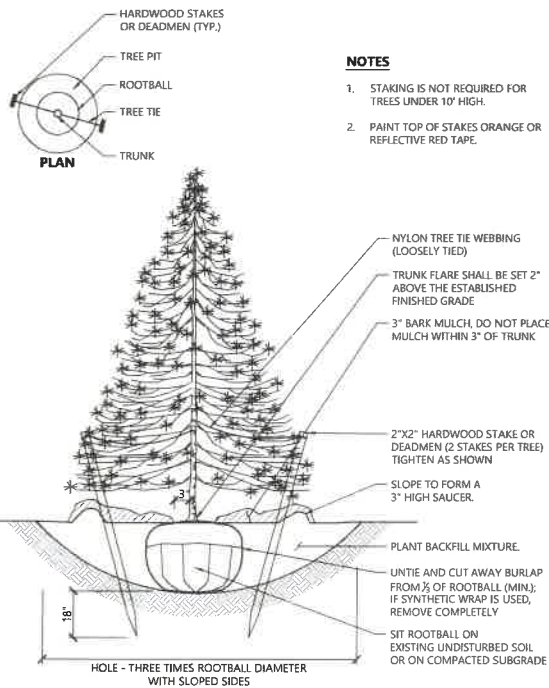
- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNER'S REPRESENTATIVE OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
- A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED AND APPROVED.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSEYMEN AND CONTRACT DOCUMENTS.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 4" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
- THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

Plant Maintenance Notes

- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION SYSTEM IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY WASTE MANAGEMENT OF NH.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK DURING THE GUARANTEE PERIOD.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT DURING THE GUARANTEE PERIOD.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

Tree Protection

- EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIPLINE PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
- DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.



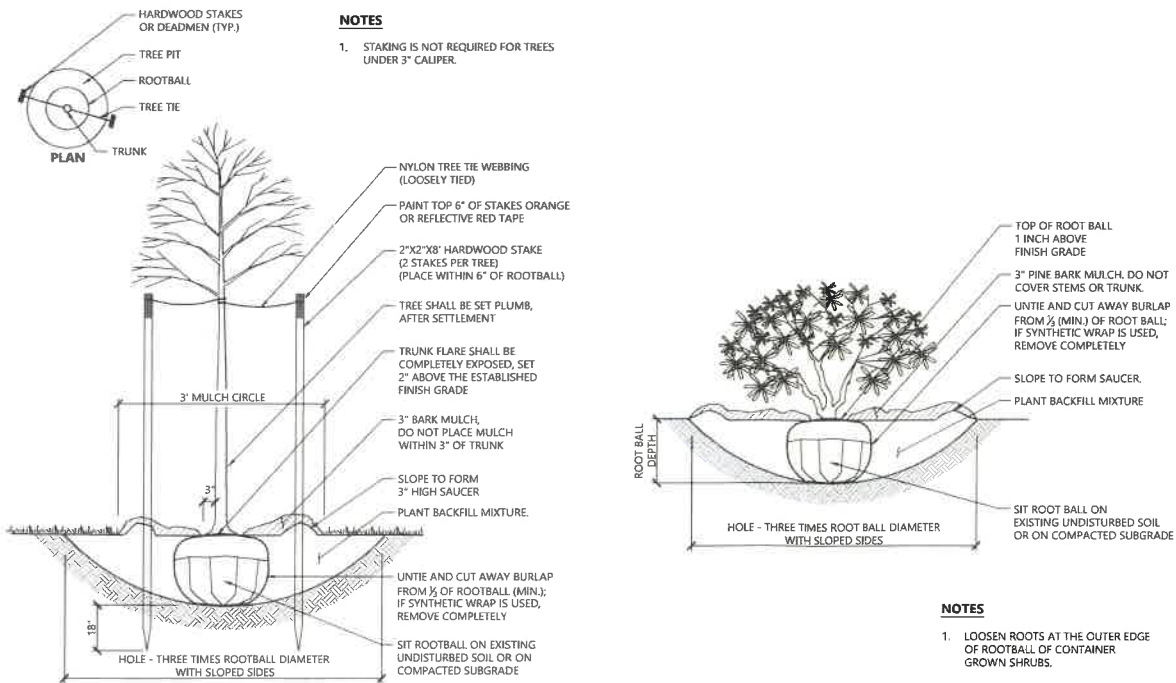
Evergreen Tree Planting

N.T.S.

Source: VHB

1/16

LD_604



Tree Planting (For Trees Under 4" Caliper)

N.T.S.

Source: VHB

1/16

LD_602

Shrub Planting

N.T.S.

Source: VHB

1/16

LD_600

Notes

- THERE ARE A TOTAL OF 82 STREET TREES, SEE SHEET L-4 FOR TYPICAL SPACING, SPECIES AND APPROXIMATE SIZE.
- AREA BETWEEN STREET TREES ON THE NORTH SIDE OF REALIGNED ROCHESTER-NECK ROAD SHALL BE SEEDED WITH NEW ENGLAND CONSERVATION WILDLIFE SEED MIX w/SHRUB & TREE SEEDS ADDED AS PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. @ 1 LB/250 SF.

TLR-III South Area Waste Management of N.H., Inc. Rochester, New Hampshire

No. Revision Date Apprd.

Designed by: _____ Checked by: _____

Issued for: _____ Date: _____

Site Plan Application October, 2017

Not Approved for Construction

Overall Landscape
Index Plan

Drawing Number



L-1

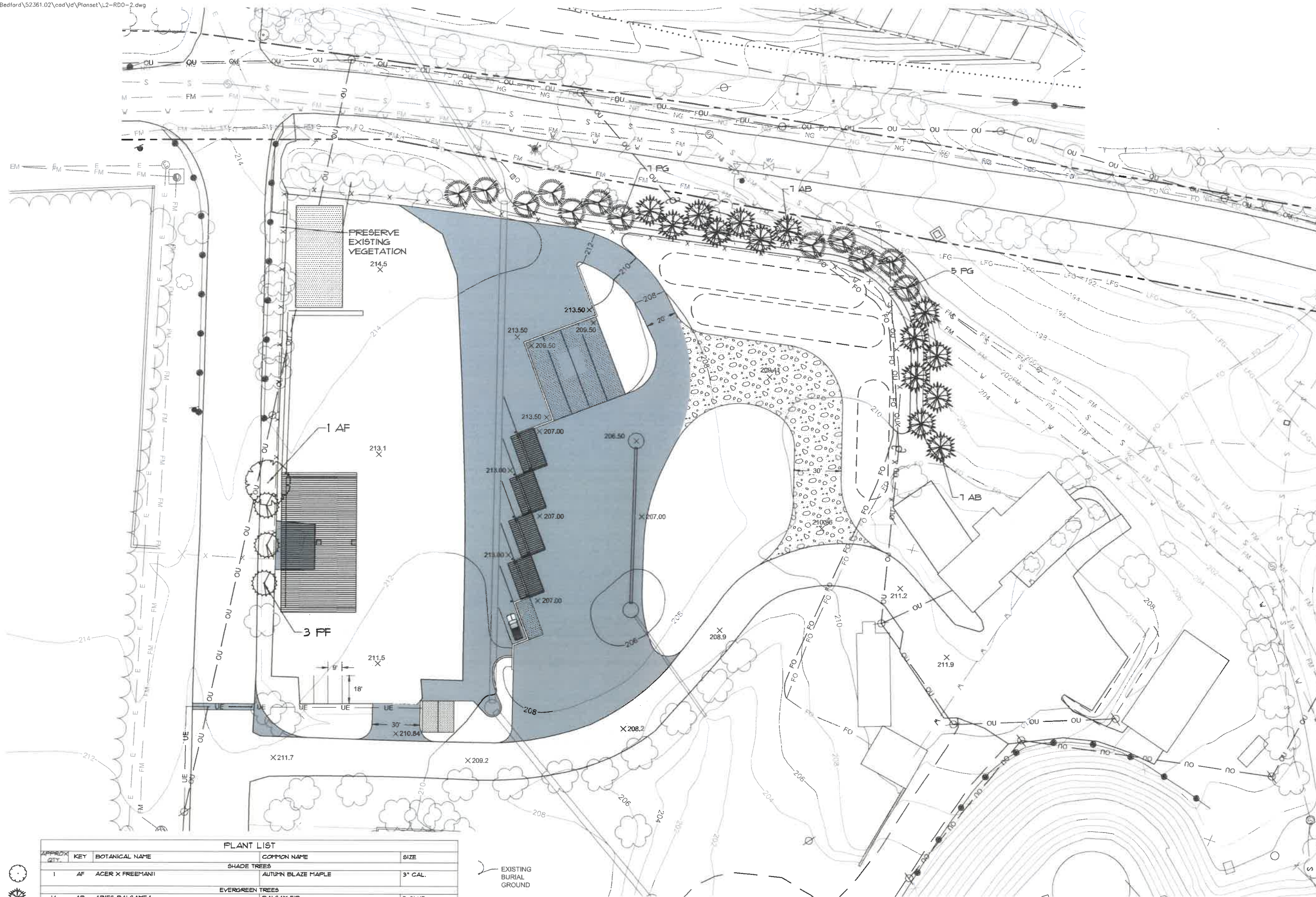
Sheet 1 of 4

Project Number

52361.02



2 Bedford Farms Drive
Suite 200
Bedford, NH 03110
603.391.3900



TLR-III South Area
Waste Management of N.H., Inc.
Rochester, New Hampshire

[illegible]

Designed by	Checked by
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Issued for	Date
Site Plan Application	October, 2017

Not Approved for Construction

Landscape Plan Residential Drop-Off

Drawing Number

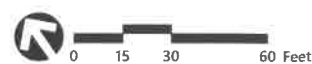
L-2

Sheet 2 of 4

Project Number
52361.02

PLANT LIST				
APPROX QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
1	AF	ACER X FREEMANII	ALTUPIN BLAZE MAPLE	3" CAL.
EVERGREEN TREES				
14	AB	ABIES BALSAMEA	BALSAM FIR	1'-8" HT.
12	PG	PICEA GLAUCA	WHITE SPRUCE	1'-8" HT.
3	FF	PICEA PUNGENS 'FAT ALBERT'	FAT ALBERT BLUE SPRUCE	1'-8" HT.

* SEED DISTURBED AREAS WITH NEW ENGLAND ROADSIDE MATRIX UPLAND SEED MIX AS PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. @ 1 LB/1250 SF





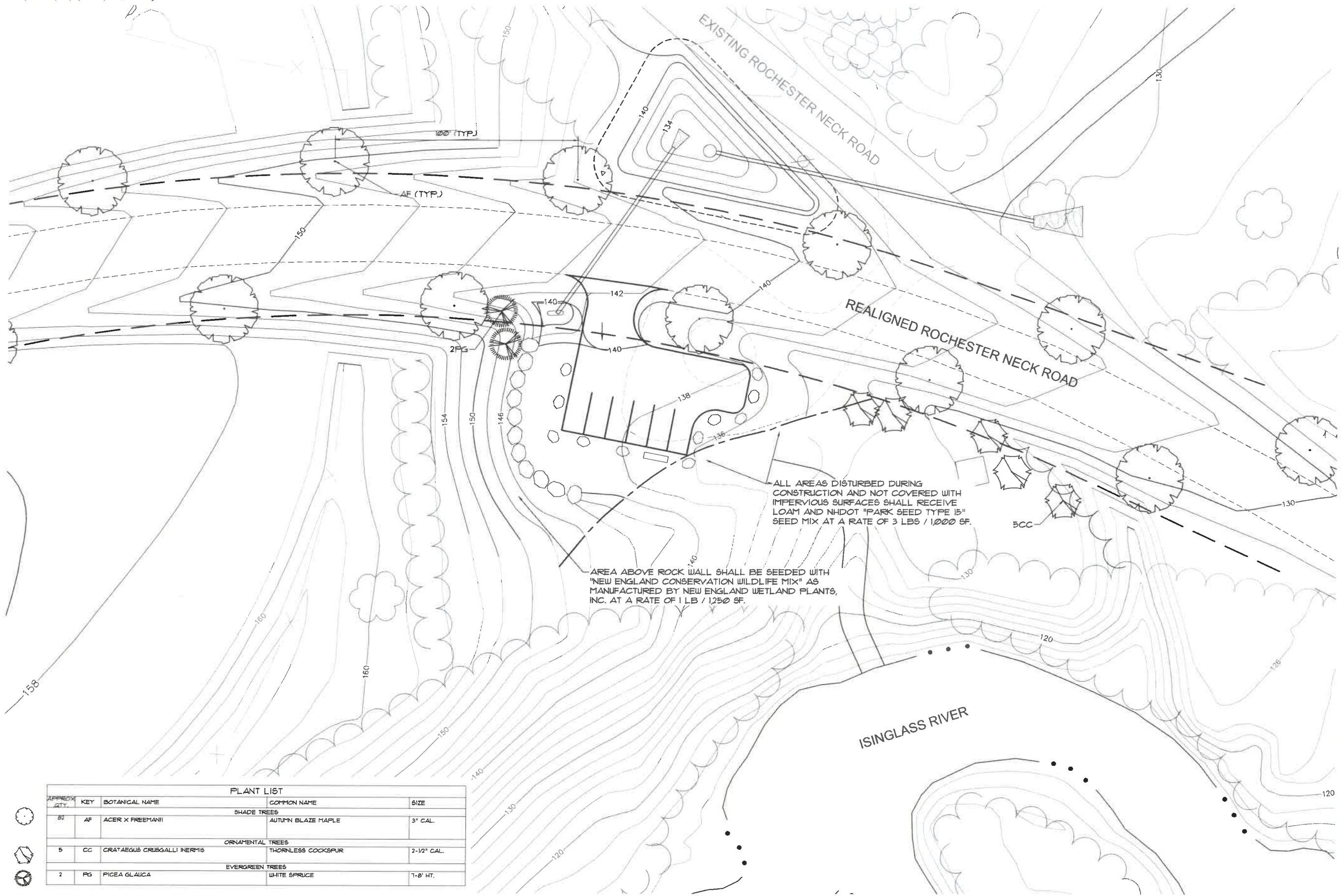
* SEED DISTURBED AREAS WITH NEW ENGLAND CONSERVATION WILDLIFE SEED MIX
AS PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. @ 1 LB/1250 SF

[illegible]

L-3

3 of 4

Project Number
2361.02



ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT COVERED WITH IMPERVIOUS SURFACES SHALL RECEIVE LOAM AND NHDOT "PARK SEED TYPE 15" SEED MIX AT A RATE OF 3 LBS / 1,000 SF.

AREA ABOVE ROCK WALL SHALL BE SEEDED WITH "NEW ENGLAND CONSERVATION WILDLIFE MIX" AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AT A RATE OF 1 LB / 1,250 SF.

PLANT LIST				
APPROX. QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
82	AF	ACER X FREEMANII	AUTUMN BLAZE MAPLE	3" CAL.
ORNAMENTAL TREES				
5	CC	CRATAEGUS CRUGGALLI INERMIS	THORNLESS COCKSPUR	2-1/2" CAL.
EVERGREEN TREES				
2	PG	PICEA GLAUCA	WHITE SPRUCE	1-8' HT.

TLR-III South Area
Waste Management of N.H., Inc.
Rochester, New Hampshire

No.	Revision	Date	Appr'd.

Designed by: _____ Checked by: _____
Issued for: _____ Date: _____
Site Plan Application **October, 2017**

Not Approved for Construction
Drawing Title:
Landscape Plan
Isinglass River Park
Modification

