

## City of Rochester, New Hampshire

Date: 4/22/21 Is a conditional use needed? Yes: X No:      Unclear:       
(If so, we encourage you to submit an application as soon as possible.)

**Property information** Granite Ridge Development

Tax map #: 221; Lot #(s): 158 & 159; Zoning district: \_\_\_\_\_

Property address/location: 14 & 10 Farmington Road, Rochester, NH 03867

Name of project (if applicable): Rochester Collision Building Addition

Size of site: 3.61 acres; overlay zoning district(s)? Yes - CO

**Property owner** \_\_\_\_\_ 10 Farmington Road LLC (Map 221, Lot 159)  
**Name (include name of individual):** \_\_\_\_\_ Rene G. & Luanne E. Cardinal (Map 221, Lot 158)  
 \_\_\_\_\_ 549 Route 1 By-Pass, Portsmouth, NH 03801 (Map 221, Lot 159)  
**Mailing address:** \_\_\_\_\_ 14 Farmington Road, P.O. Box 316, Rochester, NH 03866 (Map 221, Lot 158)  
 \_\_\_\_\_  
**Telephone #:** (603) 509-9267 (Map 221, Lot 159) **Email:** \_\_\_\_\_

**Name (include name of individual):** 10 Farmington Road LLC (Map 221, Lot 159)

**Mailing address:** 549 Route 1 By-Pass, Portsmouth, NH 03801 (Map 221, Lot 159)

**Telephone #:** (603) 509-9267 (Map 221, Lot 159) **Email:** \_\_\_\_\_

Name (include name of individual): Jack McTigue (TFMoran, Inc.)

Mailing address: 170 Commerce Way - Suite 102, Portsmouth, NH 03801

Telephone #: (603) 431-2222 Fax #: (603) 472-9747

Email address: jmctigue@tfmoran.com Professional license #: 14950

New building(s): \_\_\_\_\_ Site development (other structures, parking, utilities, etc.):   x    
Addition(s) onto existing building(s):   x   Demolition:   x   Change of use: \_\_\_\_\_

Describe proposed activity/use: The proposed project is to consist of an 8,000-S.F. building addition, parking lot expansion and removal of existing dwelling and driveway. A stormwater management system will be proposed to accommodate additional runoff from the site.

Describe existing conditions/use (vacant land?): The site currently consists of a 13,534-S.F. Collision Center Building with associated parking as well as a 2,654-S.F. dwelling. Driveways to both the commercial and residential buildings are from Cardinal Drive.

Utility information

City water? yes ☒ no ☐; How far is City water from the site? Water, Sewer, Gas and Electric utilities all currently service existing building. All required utilities for building addition will be provided internally from existing building.

City sewer? yes ☒ no ☐; How far is City sewer from the site? No additional flows anticipated

If City water, what are the estimated total daily needs? 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? Treated stormwater is to be discharged to pre-development discharge locations (abutting residential area & Farmington Road)

Building information

Type of building(s): Auto Repair Shop

Building height: 27.14 feet Finished floor elevation: 269.89

Other information

# parking spaces: existing: 75 total proposed: 138 (net); Are there pertinent covenants? No

Number of cubic yards of earth being removed from the site 0 C.Y. (Fill Site)

Number of existing employees: 13; number of proposed employees total: 13

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

Wetlands: Is any fill proposed? No; area to be filled: 0 S.F.; buffer impact? 11,068 S.F.

Proposed <i>post-development</i> disposition of site (should total 100%)		
	Square footage	% overall site
Building footprint(s) – give for each building	± 21,534 S.F.	12.9%
Parking and vehicle circulation (Impervious Area)	± 71,715 S.F.	43.1%
Planted/landscaped areas (excluding drainage)	± 62,250 S.F.	37.6%
Natural/undisturbed areas (excluding wetlands)	± 6,150 S.F.	3.7%
Wetlands	± 3,634 S.F.	2.2%
Other – drainage structures, outside storage, etc.	± 811 S.F.	0.5%

## Comments

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

Please see attached cover letter.

## 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: X *Luanne E. Cardina*

Date: 4/21/2021

Signature of applicant/developer: *Q*

Date: \_\_\_\_\_

Signature of agent: *[Signature]* (TFMoran, Inc.)

Date: 4/22/21

## 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: X *Luanne E. Cardina*

Date: 4/21/2021

Project Narrative

The existing Tax Map 221 Lot 158 & 159 is approximately 3.61 acres and is currently occupied by Rochester Collision and a residential building. The site is within the Granite Ridge Development Zone and Conservation Overlay District and is located off Farmington Road (adjacent to Cardinal Ave). the lot is adjacent to residential properties. The proposed project is to result in 11,068 square feet of impact within the 50' wetland buffer on site.

The project proposes to construct an 8,000 square foot building addition and expansion to the parking area. Also included is the removal of an existing residential building and driveway on site. The proposed building addition is to provide additional workspace for vehicle repair for Rochester Collision, and the expanded parking area will provide additional spaces for employee parking and vehicle storage. Improvements include grading, stormwater management, landscaping, and lighting. The site will continue to be accessible from Cardinal Drive.

Based on our review of the City of Rochester's Site Plan Review Regulations, we are not requesting any waivers at this time. A variance was granted by the Zoning Board of Adjustment on February 12, 2021 to allow the alteration of land within the wetland buffer. Lastly, due to impact being proposed within the Conservation Overlay District, a Conditional Use Permit has been attached in order to allow a reduction of the 50' Wetland Buffer.

We appreciate your consideration of these matters and look forward to presenting this project to you in the near future.

We respectfully request that we be placed on the upcoming agenda for the next available TRG and Planning Board Meetings.

If you have any questions or concerns, please do not hesitate to contact us.

Respectfully,  
**TFMoran, Inc.**



Christopher Rice  
Senior Project Manager, Principal

**Application for Conditional Use**  
**Conditional Uses and Buffer Reductions**  
**Section 42.19 - Conservation Overlay District**  
**City of Rochester, NH**

Date: April 22, 2021

**Property information**

Tax map #: 221; Lot #(s): 158 & 159; Zoning district: Granite Ridge

Property address/location: 10 Farmington Road, Rochester, NH 03867

Name of project (if applicable): Key Collision Building Addition

**Property owner**

Name (include name of individual): 10 Farmington Road LLC (Map 221, Lot 159) Rene G. & Luanne E. Cardinal (Map 221, Lot 158)

Mailing address: 549 Route 1 By-Pass, Portsmouth, NH 03801 (Map 221, Lot 159) 14 Farmington Road, P.O. Box 316 Rochester, NH 03866 (Map 221, Lot 158)

Telephone #: (603) 509-9267 (Map 221, Lot 159) Fax

**Applicant/developer** (if different from property owner)

Name (include name of individual):

Mailing address:

Telephone #:  Fax #:

**Engineer/designer**

Name (include name of individual): Jack McTigue / Christopher Rice (TFMoran, Inc.)

Mailing address: 170 Commerce Way - Suite 102, Portsmouth, NH 03801

Telephone #: (603) 431-2222 Fax #: (603) 472-9747

Email address: jmctigue@tfmoran.com / crice@tfmoran.com Professional license #: 14950 (Jack McTigue)

**Proposed Project**

Please describe the proposed project: The proposed project is to consist of an 8,000-S.F. Building

addition, parking lot expansion and removal of existing dwelling and driveway. A stormwater management system

will be proposed to accommodate additional runoff from the site.

Please describe the existing conditions: The site currently consists of a 13,534-S.F. Collision Center

Building with associated parking as well as a 2,654-S.F. dwelling. Driveways to both the commercial and residential

buidings are from Cardinal Drive.

(continued Conditional Use application Tax Map: \_\_\_\_\_ Lot: \_\_\_\_\_ )

*\*Please fill in **one** of the next two sections – for either Conditional Uses or Buffer Reductions\**

**Conditional Uses**

For Conditional Uses only, justify the proposal in terms of each of the criteria below (in accordance with subsection 42.19 (i) (1) (A)). All four criteria must be satisfied.

(i) The proposed construction is essential to the productive use of land not in the COD.

(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.

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

(iv) Economic advantage is not the sole reason for the proposed location of work.

*(Buffer Reductions on next page)*

**Buffer Reductions**

For Buffer Reductions only, justify the proposal in terms of each of the criteria below (in accordance with subsection 42.19 (i) (2) (B)). All four criteria must be satisfied.

(i) The structure for which the exception is sought cannot feasibly, after consideration of all reasonable alternatives, be constructed on a portion or portions of the lot, which lie outside the CO district, *or* the application of the CO district eliminates greater than 50% of the buildable area located on the parcel *or* in the judgment of the Planning Board, the proposed site layout would result in a significantly higher quality design.

\*\*See Attached Sheet\*\*

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(ii) The proposed structure and use must be consistent with the purpose and intent of Section 42.19 and provisions must be made to ensure that drainage from the structure will not adversely impact any wetlands.

\*\*See Attached Sheet\*\*

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(iii) There shall be no impervious areas for parking within the reduced buffer for which the Conditional Use Approval is sought.

\*\*See Attached Sheet\*\*

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(iv) The maximum building coverage is limited to 50% of the outer half of the buffer zone, as shown in the diagram below.

\*\*See Attached Sheet\*\*

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(v) Best management practices must be demonstrated to the satisfaction of the Planning Board.

\*\*See Attached Sheet\*\*

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### 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 Conditional Use application to the City of Rochester Conservation Commission and Planning Board pursuant to the City of Rochester Zoning Ordinance 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: 1-12-21

Signature of applicant/developer: ☒ 

Date: 1-12-21

Signature of agent:  (Christopher Rice - TFMoran, Inc)

Date: 01/12/21

### Authorization to enter subject property

I hereby authorize members of the Rochester Conservation Commission and Planning Board, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections. 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. (It is not necessary to sign this provision if a Planning Board application has been submitted.)

Signature of property owner: 

MANAGER 10 FARMINGTON RD. LLC  
Date: 1-12-21

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 Conditional Use application to the City of Rochester Conservation Commission and Planning Board pursuant to the City of Rochester Zoning Ordinance 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: Gene L. Cardinal X

Date: 1/12/2021

Signature of applicant/developer: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of agent: (Christopher Rice - TFMoran, Inc)

Date: 01/12/21

Authorization to enter subject property

I hereby authorize members of the Rochester Conservation Commission and Planning Board, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections. 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. (It is not necessary to sign this provision if a Planning Board application has been submitted.)

Signature of property owner: Gene L. Cardinal X

Date: 1/12/2021

\*\*\*\*\*

Conservation Commission Recommendation:

[office use only]

Name of project

Case #

Recommendation:

- ☐ Approval
- ☐ Approval with conditions
- ☐ Denial

Comments/recommended conditions:

Conservation Commission

date

Planning Department

date



Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists



April 22, 2021

Michael Dionne  
Conservation Commission, Chair  
Rochester Planning Department  
31 Wakefield Street  
Rochester, NH 03867

**Re: Application for Conditional Use – Buffer Reduction  
Map 221, Lots 158 & 159  
10 Farmington Road, Rochester, NH 03867**

Dear Mr. Dionne,

On behalf of our client, 10 Farmington Road, LLC, enclosed please find responses to criteria for a Conditional Use Permit to allow a Wetland Buffer Reduction within the Conservation Overlay District.

- (i) *The structure for which the exception is sought cannot feasibly, after consideration of all reasonable alternatives, be constructed on a portion or portions of the lot, which lie outside the CO district, or the application of the CO district eliminates greater than 50% of the buildable area located on the parcel or in the judgment of the Planning Board, the proposed site layout would result in a significantly higher quality design.*

**The proposed site layout has been revised to eliminate direct impact the wetlands as well as to reduce the area of impact within the wetland buffer. The proposed parking expansion was proposed in a manner that would result in the least disturbance to the wetland buffer while also meeting the needs of the client. The majority of the proposed site layout utilizes the available buildable area outside of the Conservation Overlay District.**

- (ii) *The proposed structure and use must be consistent with the purpose and intent of this article and provisions must be made to ensure that drainage from the structure will not adversely impact any wetlands.*

**The proposed project will meet the purpose/intent of the Conservation Overlay District by preventing destruction of wetland areas, protecting abutting property owners against hazards of flood as a result of increased stormwater runoff, and minimize disturbance to native wildlife habitats/natural vegetation. The proposed stormwater management system will capture runoff from the expanded parking area and building addition and will provide pretreatment and treatment prior to discharge. The proposed stormwater management system will also meet all City of Rochester drainage design requirements.**



- (iii) *There shall be no impervious areas for parking within the reduced buffer for which the Conditional Use Approval is sought.*

**There is no proposed impervious area within the reduced buffer.**

- (iv) *The maximum building coverage is limited to 50% of the outer half of the buffer zone, as shown in the diagram below.*

**The area of the outer half of the buffer zone is 12,776 square feet and the area of the proposed building addition within the outer half of the buffer zone is 1,174 square feet. This results in 9% of building coverage within the outer half of the buffer zone, which does not exceed the limit of 50%.**

- (v) *Best management practices must be demonstrated to the satisfaction of the Planning Board.*

**The proposed stormwater management practice was designed to adhere to City of Rochester drainage design requirements. The proposed stormwater practice is to provide pretreatment/treatment to collected runoff and will discharge stormwater to existing outfall locations at a rate that will not exceed pre-development peak discharge rates.**

If you have any further questions, please contact me at 431-2222.

Sincerely,  
**TFMoran Inc.**



Christopher Rice  
Senior Project Manager, Principal



Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

NEW  
HAMPSHIRE  
200

#### Site Photos

Application for Conditional Use – Buffer Reduction  
10 Farmington Road, Tax Map 221, Lots 158 & 159



Photo #1: Wetland buffer to be impacted adjacent to residential driveway facing west.



Photo #2: Wetland buffer to be impacted facing north towards existing commercial building.

TFMoran, Inc.  
48 Constitution Drive, Bedford, NH 03110  
T (603) 472-4488      www.tfmoran.com



TFMoran, Inc. Seacoast Division  
170 Commerce Way–Suite 102, Portsmouth, NH 03801  
T (603) 431-2222



Photo #3: Wetland buffer to be impacted facing southwest towards property line.



Photo #4: Wetland buffer to be impacted adjacent to residential building facing southwest.

# Wetland Functional Assessment Report

FOR

**Map 0221, Lot 0159-000**  
10 Farmington Road  
Rochester, NH

PREPARED FOR

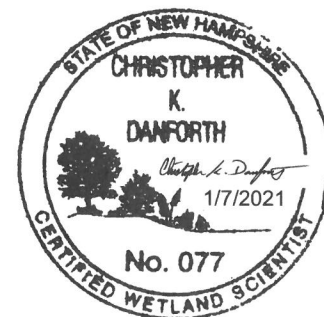
**Key Collision.**  
10 Farmington Road  
Rochester, NH

PREPARED BY

**TFMORAN, INC.**  
48 Constitution Drive  
Bedford, NH 03110

JN: 47424.10

January 7, 2021



## **Wetland Functions and Values Assessment**

TFMoran, Inc (TFM) has prepared this document to accompany a development proposal to the City of Rochester Department of Planning and Development. The proposed project involves the expansion of a parking lot for an existing business resulting in the encroachment into the wetland buffer. Direct impacts to the wetland have been avoided under this proposal.

This report has been prepared using the Army Corps Highway Methodology guidelines to provide a functional assessment of the wetlands buffer that are subject to impact by this project. The 'Highway Methodology' is descriptive approach used to describe wetlands and assessing them based on 14 wetland functions and values. This assessment is used as a guide to determine the significance of the proposed impacts and to determine appropriate compensatory mitigation options, if required, for the project.

The following reference documents were used in this functional evaluation and assessment.

- Granitview GIS ([https://granitview.unh.edu/html5viewer/index.html?viewer=granit\\_view](https://granitview.unh.edu/html5viewer/index.html?viewer=granit_view))
- NRCS Web Soil Survey for Strafford County
- US Army Corps of Engineers "The Highway Methodology Workbook – Supplement".
- NH Department of Fish & Game Wildlife Action Plan, 2015.
- Google Earth Pro (vers.7.3.3)
- City of Rochester GIS

## **Project Site Characterization**

Onsite investigations were conducted by a TFM Wetland Scientist on November 14, 2020. Jurisdictional wetlands were delineated in the area of the proposed project and includes an adjacent residential property. An isolated wetland was observed between the two lots and extends northwesterly to an adjacent property. The portion of the wetland between the two lots is classified as a forested wetland that receives seasonal runoff from an isolated wetland that appears to be a vernal pool. A culvert under Cardinal Drive conveys runoff to a wetland on the south side of Cardinal Drive. The surrounding uplands are forested or developed for residential or commercial use.

According to soils data obtained from the NRCS Web Soil Survey for Strafford County, the project area soils are mapped as Gloucester soils (GsB). These till soils are somewhat excessively drained typically with a deep water table and no bedrock within 80". The surrounding soils are mapped as Hinkley loamy sand (HaB), an

outwash soil that is excessively drained and no bedrock or watertable within 80 inches. These soils are pervious and provide recharge potential given the high infiltration capacity (high Ksat values).

The forested wetlands are dominated by a mixed overstory canopy of deciduous and coniferous trees including red maple (*Acer rubrum*), paper birch (*Betula papyrifera*), White Ash (*Fraxinus americana*), Red Oak (*Quercus rubra*), American Beech (*Fagus grandifolia*), and Eastern white pine (*Pinus strobus*). The intermediate shrub/sapling layer consists of broadleaved, meadowsweet (*Spiraea latifolia*), steplebush (*Spiraea tomentosa*), gray birch (*Betula populifolia*), maleberry (*Lyonia ligustrina*), and Highbush Blueberry (*Vaccinium corymbosum*). Herbaceous species include tussock sedge (*Carex stricta*), woolgrass (*Scirpus cyperinus*) Boneset (*Eupatorium perfoliatum*), soft rush (*Juncus effusus*), cinnamon fern (*Osmundastrum cinnamommeum*) and sensitive fern (*Onoclea sensibilis*). Invasive plant species including multiflora rose (*Rosa multiflora*) and glossy buckthorn (*Frangula alnus*), are common throughout the site.

The NH Wildlife Action Plan Maps indicate no significance for Highest Ranked Wildlife Habitat and no supporting habitat land cover in respect to the developed areas on each lot. The wetland areas maintain natural vegetative cover however the area is limited between the developed areas.

**Wetland Functional Assessment Criteria**

Wetland functions and their significance were evaluated using the US Army Corps Highway Methodology guidelines. A Wetland Functional Assessment form and a list of criteria for each wetland function used in the assessment are included in this report. The form helps to develop a qualitative assessment of a wetland for each of the 14 wetland functions and values. The following is a list of the 14 wetland functions and values with a brief description for each.

- 1. (1&2) **Groundwater recharge/discharge:** This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area. Recharge should relate to the potential for the wetland to contribute water to an aquifer. Discharge should relate to the potential for the wetland to serve as an area where ground water can be discharged to the surface.
- 2. **Floodflow Alteration:** This function considers the effectiveness of the wetland in reducing flood damage by attenuation of floodwaters for prolonged periods following precipitation events.
- 3. **Fish and Shellfish Habitat:** This function considers the effectiveness of seasonal or permanent water bodies associated with the wetland in question for fish and shellfish habitat.

4. **Sediment/Toxicant/Pathogen Retention:** This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants or pathogens.
5. **Nutrient Removal/Retention/Transformation:** This function relates to the effectiveness of the wetland to prevent adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers or estuaries.
6. **Production Export:** This function relates to the effectiveness of the wetland to produce food or usable products for human, or other living organisms.
7. **Sediment/Shoreline Stabilization:** This function relates to the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.
8. **Wildlife Habitat:** This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and or migrating species must be considered.
9. **Recreation:** This value considers the effectiveness of the wetland and associated watercourses to provide recreational opportunities such as canoeing, boating, fishing, hunting and other active or passive recreational activities. Consumptive opportunities consume or diminish the plants, animals or other resources that are intrinsic to the wetland, whereas non-consumptive opportunities do not.
10. **Educational/Scientific Value:** This value considers the effectiveness of the wetland as a site for an "outdoor classroom" or as a location for scientific study or research.
11. **Uniqueness/Heritage:** This value relates to the effectiveness of the wetland or its associated water bodies to produce certain special values. Special values may include such things as archeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geological features.
12. **Visual Quality/Aesthetics:** This value relates to the visual and aesthetic qualities of the wetland.

13. **Threatened or Endangered Species Habitat:** This value relates to the effectiveness of the wetland or associated water bodies to support threatened or endangered species.

### **Project Area Wetland Functional Assessment**

The area of proposed development does not impact the wetland directly but will be within some portion of the locally enforced 50-foot wetland buffer. Principal wetland functions and values supported by the wetland includes Groundwater Recharge, Wildlife Habitat, and Rare or Threatened Species Habitat. The following is a description of the wetland functions and values that occur in or adjacent to the project area based on this assessment.

#### ***Groundwater Recharge***

Groundwater recharge is a principal wetland function in this wetland complex. The site is located on or adjacent to a glacial outwash terrace with excessively drained soils. The depressional wetland captures and stores stormwater runoff from the surrounding uplands and recharges the watertable. The pervious nature of the parent material implies high infiltration rates and therefore a propensity for groundwater recharge capacity. The recharge capacity is also dependent on the fluctuation of the local watertable. The transmissivity of the overburden will influence the duration of flooding in the depression. This hydroperiod is a critical element of vernal pool viability. The wetland soils consist of sandy mineral soils that permit high transmissivity of groundwater through the system. This function can be mitigated through infiltration of stormwater collected from the developed site. Stormwater collected through a drainage system will ensure that site runoff is controlled, and by directing collected site runoff to an infiltration basin, post development hydrology will remain the same as the predevelopment condition.

#### ***Wildlife Habitat***

Wildlife Habitat is a principal function of this wetland complex found at the northwesterly end of the site. The wetland complex contains forested wetland areas and a potential vernal pool that straddles the westerly property line. Although the surrounding areas are actively utilized for commercial and residential use, signs of wildlife presence and utilization were evident. The upland/wetland areas provide cover and concealment, food sources and a conduit between larger wetland complexes such as the Cocheco River corridor or Baxter Lake complex. the larger wetland systems that are present support a broad range of both game and nongame wildlife. This wetland is part of the larger mosaic of wildlife habitat types found in the vicinity.

### ***Endangered Species Habitat***

This value considers the suitability of the wetland or adjacent uplands to support threatened and/or endangered species. The NH Natural Heritage Bureau indicates a potential species or habitat in the vicinity of the project. The diversity of the habitat and proximity to other wetlands make this area important to supporting rare, threatened or endangered species important. The potential vernal pool (requires confirmation of obligate or facultative indicator species) is a priority resource area with potential habitat for Blanding's turtle, spotted turtle, and marbled salamander.

### **Discussion**

This project is located in a developed area with mixed commercial and residential use adjacent to NH Rte. 11, a primary arterial road off the Spaulding Turnpike. The wetland functions as a wildlife habitat island that supports transient species moving through the area to larger more intact habitat complexes. The groundwater recharge function helps in maintaining the groundwater table. Although the project will not directly impact the wetland, buffer areas that are important to some wildlife species may be impacted however the continuity of the wetland buffer is isolated and already fragmented by existing roads and building development around the wetland.

The principal functions and values supported by the wetlands found on the property include Groundwater Recharge, Wildlife Habitat, and potential Endangered Species Habitat as discussed above. To compensate for lost functions of groundwater recharge, the development can be designed to include measures to infiltrate stormwater runoff from the developed site. Appropriate infiltration measures will maintain the preconstruction groundwater hydrology rather than allowing stormwater to runoff in an uncontrolled manner. Wildlife habitat functions are more difficult to mitigate as the habitat area will be diminished by the expansion, however, the impacts during construction can be mitigated by using wildlife friendly perimeter controls and erosion control blankets, drop inlets in-lieu of catchbasins and avoiding wildlife that may be present during construction. Long term mitigation may include enhanced habitat features and protection of the vernal pool.


### **Conclusions & Recommendations**

No wetlands subject to direct impact from this proposed project Although increased impervious surfaces will lead to a greater volume of storm water runoff, measures that will treat the runoff to remove contaminants and control the rate and/or volume of runoff from the site can be managed to maintain the preconstruction condition. If proper temporary erosion control measures are implemented prior to and during construction, there should be no impact to the adjacent resource areas. A permanent erosion and sediment control plan will be implemented at the end of the construction project to ensure the site is stabilized in the long term as well.

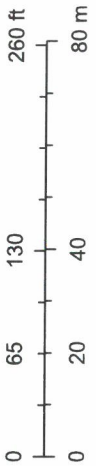
Key Collision-Rochester



1/7/2021, 11:31:26 AM

 Tax Parcels

1:2,000



Esri, HERE, Garmin, INCREMENT P, NGA, USGS, Esri, HERE, IPC

ArcGIS Online - Rochester NH+Web GIS



Photo #1: View of wetland from the east looking north. Proposed development area is to the right and left in the photo.



Photo #2: Northerly end of the wetland at the property line with the potential vernal pool in the background.



Photo #3: Buffer area between the wetland and the existing building to be expanded (looking east).



Photo #4: View of wetland looking south from location of Photo #3. The wetland ends at the red maple in the background.

Wetland Function-Value Evaluation Form

Total area of wetland <2ac    Human made? **No**    Is wetland part of a wildlife corridor? \_\_\_\_\_ or a "habitat island"? **Yes**

Adjacent land use **Residential /Commercial**    Distance to nearest roadway or other development <100'

Dominant wetland systems present **Forested Wetland (PFO1B)**    Contiguous undeveloped buffer zone present **Partial**

Is the wetland a separate hydraulic system? **Isolated**    If not, where does the wetland lie in the drainage basin? \_\_\_\_\_

How many tributaries contribute to the wetland? **none**    Wildlife & vegetation diversity/abundance (see attached list)













Wetland I.D. **Wetland A**

Latitude **43.32215N**    Longitude **71.000617W**

Prepared by: **CKD**    Date **12/14/2020**

Wetland Impact:  
Type **None/Buffer**    Area **0.0ac+/-**

Evaluation based on:  
Office **XX**    Field **XX**  
Corps manual wetland delineation completed?    Y **XX**    N \_\_\_\_\_

Function/Value		Suitability		Rationale	Principal	Comments
		Y	N	(Reference #)*	Function(s)/Value(s)	
	Groundwater Recharge/ <del>Discharge</del>	XX		2,3,4,5,8,9,11,15	XX	Wetland infiltrates groundwater
	Floodflow Alteration			1,5,6,7,8,9,13,15,		No restrictive outlet or extended storage capacity
	Fish and Shellfish Habitat		XX			No permanent water or waterway associated with project
	Sediment/Toxicant Retention		XX			wetland substrate is not adequate to retain sediment or contaminants from proximal sources.
	Nutrient Removal		XX	3,5,8,9,11		Nutrient utilization is limited due to lack of vegetation density and diversity of lower level trophic consumers
	Production Export		XX			limited production of food and browse is available
	Sediment/Shoreline Stabilization		XX			
	Wildlife Habitat	XX		3,4,5,7,8,10,13,15,16,17,18,19,20	XX	This wetland is isolated and contains an potential unconfirmed vernal pool
	Recreation		XX			No recreational opportunities exist on this limited area of wetland
	Educational/Scientific Value		XX			Wetland is accessible but located on private land with no unique significance
	Uniqueness/Heritage		XX			Wetland is accessible but located on private land with no unique significance
	Visual Quality/Aesthetics		XX			Wetland and upland buffer provide back drop and buffer between properties
<b>ES</b>	Endangered Species Habitat	XX				Priority Resource areas is in the vicinity of the project
	Other					

Notes: \* Refer to backup list of numbered considerations.

## GENERAL INFORMATION

FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT:

### OWNERS

MAP 221 LOT 159  
10 FARMINGTON ROAD, LLC  
549 ROUTE 1 BY-PASS  
PORTSMOUTH, NH 03801

MAP 221 LOT 158  
RENE G. & LUANNE E. CARDINAL  
PO BOX 316  
ROCHESTER, NH 03866-0316

### APPLICANT/PREPARED FOR

MAP 221 LOT 159  
10 FARMINGTON ROAD, LLC  
549 ROUTE 1 BY-PASS  
PORTSMOUTH, NH 03801

### RESOURCE LIST

#### PLANNING/ ZONING

DEPARTMENT  
31 WAKEFIELD STREET  
ROCHESTER, NH 03867  
(603) 335-1338  
MARK SULLIVAN, PLANNING AND ZONING  
CITY MANAGER DESIGNEE

#### BUILDING DEPARTMENT

31 WAKEFIELD STREET  
ROCHESTER, NH 03867  
(603) 332-3508  
JIM GRANT, DIRECTOR

#### PUBLIC WORKS

45 OLD DOVER ROAD  
ROCHESTER, NH 03867  
(603) 332-4096  
PETER NOURSE, P.E., DIRECTOR

#### POLICE DEPARTMENT

23 WAKEFIELD STREET  
ROCHESTER, NH 03867  
(603) 330-7127  
PAUL TOUSSAINT, CHIEF

#### FIRE DEPARTMENT

37 WAKEFIELD STREET  
ROCHESTER, NH 03867  
(603) 335-7545  
MARK KLOSE, CHIEF

### ASSOCIATED PROFESSIONALS

#### ARCHITECT

TW DESIGNS, LLC  
254 DRAKE HILL ROAD  
STRAFFORD, NH 03884  
(603) 664-2181

#### SOIL SCIENTIST

TES ENVIRONMENTAL CONSULTANTS, LLC  
1494 ROUTE 3A, UNIT 1  
BOW, NH, 03304  
(603) 856-8925  
THOMAS E. SOKOLOSKI, CERTIFIED SOIL  
SCIENTIST

#### TRAFFIC ENGINEER

TFMORAN, INC.  
48 CONSTITUTION DRIVE  
BEDFORD, NH 03110  
(603) 472-4488  
JENNIFER PORTER, PE

#### SURVEYOR

TFMORAN, INC.  
170 COMMERCE WAY  
PORTSMOUTH, NH 03801  
(603) 431-2222  
J. COREY COLWELL, LLS

#### WETLANDS SCIENCE

TFMORAN, INC.  
48 CONSTITUTION DRIVE  
BEDFORD, NH, 03110  
(603) 472-4488  
CHRIS DANFORTH, CERTIFIED WETLAND  
SCIENTIST

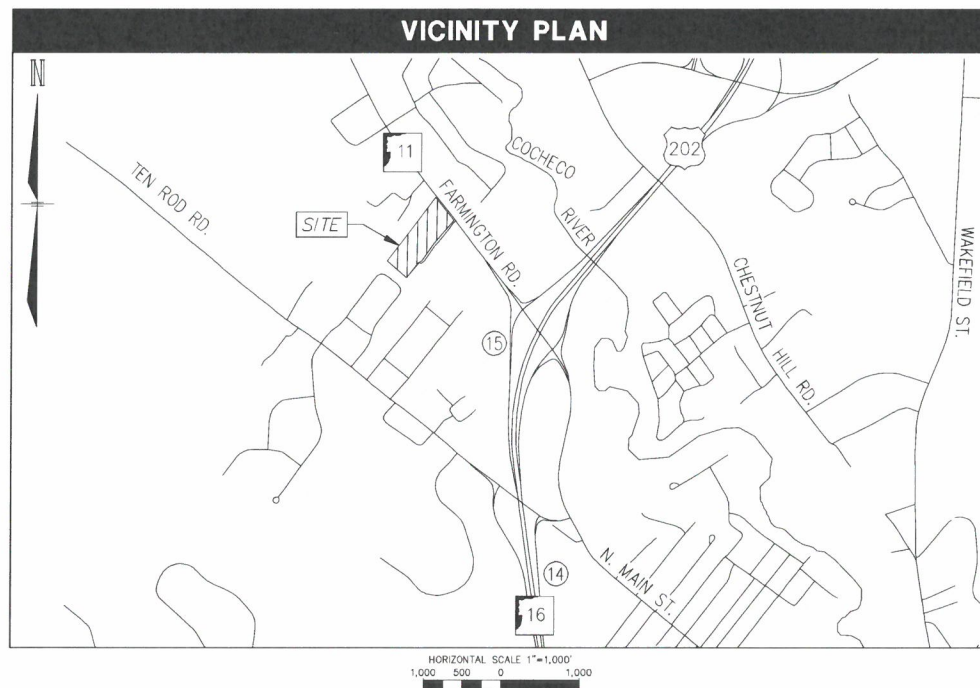
#### LIGHTING

CHARRON, INC.  
P.O. BOX 4550  
MANCHESTER, NH, 03108  
(603) 624-4827  
KEN SWEENEY

# ROCHESTER COLLISION ADDITION

10 FARMINGTON ROAD  
ROCHESTER, NEW HAMPSHIRE

APRIL 27, 2021



## INDEX OF SHEETS

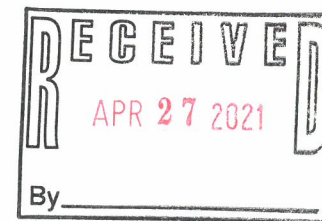
SHEET	SHEET TITLE
C-00	COVER
S-01	EXISTING CONDITIONS PLAN
C-02	NOTES & LEGEND
C-03	SITE PREPARATION PLAN
C-04	SITE LAYOUT PLAN
C-05	GRADING & DRAINAGE PLAN
C-06	LANDSCAPE PLAN
C-07	LANDSCAPE DETAILS
C-08	TRUCK MOVEMENT PLAN
C-09	EROSION CONTROL NOTES
C-10 - 13	DETAILS
C-14	LIGHTING PLAN

### REFERENCE PLANS BY ASSOCIATED PROFESSIONALS

- ARCHITECTURAL ELEVATION PLANS (BY TW DESIGNS, LLC)

## PERMITS/APPROVALS

	NUMBER	APPROVED	EXPIRES
CITY PLANNING BOARD	-	PENDING	-
SITE PLAN REVIEW	-	PENDING	-
CITY ZONING BOARD	N/A	2/3/21	-
VARIANCE	-	PENDING	-
NHDES ALT. OF TERRAIN	-	PENDING	-



### APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159

**COVER**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

APRIL 27, 2021

### Seacoast Division



Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

170 Commerce Way, Suite 102  
Portsmouth, NH 03801  
Phone (603) 431-2222  
Fax (603) 431-0910  
www.tfmoran.com

47424.00	DR	DKE	FB	-	C-00
	CK	CR	CADFILE	47424-00 - COVER	

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LEGEND			
PROPOSED		PROPOSED	
	PROPERTY LINE		CONCRETE
	ZONING LINE		GRAVEL
	EASEMENT		HEAVY DUTY PAVEMENT
	BASELINE		CONSTRUCTION ENTRANCE
	FLOODPLAIN		SNOW STORAGE
	EDGE OF WATERBODY		RIPRAP
	EDGE OF WETLAND		INLET PROTECTION
	SETBACK (WETLAND)		DRAIN LINE
	SETBACK (STRUCTURE)		DRAINAGE SWALE
	SETBACK (PARKING)		STORMWATER BMP
	SETBACK (LANDSCAPE)		SEWER LINE
	GRAVEL ROAD		SEWER FORCE MAIN LINE
	EDGE OF PAVEMENT		WATER LINE
	VERTICAL GRANITE CURB		GAS LINE
	SLOPED GRANITE CURB		OVERHEAD UTILITY LINE
	CONCRETE CURB		UNDERGROUND UTILITY LINE
	INTEGRATED CONCRETE CURB		CATCH BASIN
	BITUMINOUS ASPHALT CURB		DRAIN INLET
	CAPE COD BERM		OUTLET CONTROL STRUCTURE
	SAWCUT		ROOF DRAIN
	BUILDING		BUILDING FOUNDATION
	BUILDING ROOF OVERHANG		BUILDING ENTRANCE
	BUILDING FOUNDATION		BUILDING ENTRANCE
	BUILDING ENTRANCE		BUILDING ENTRANCE
	BUILDING ENTRANCE		BUILDING ENTRANCE
	OVERHEAD DOOR		FARED END SECTION
	TREE LINE		SEWER CLEAN OUT
	FENCE (CHAIN LINK)		SEWER MANHOLE
	FENCE (WIRE)		SEWER VENT
	FENCE (STOCKADE)		DRAIN/SEWER/WATER PLUG OR CAP
	GUARDRAIL		HYDRANT
	STONE WALL		FIRE DEPARTMENT CONNECTION
	RETAINING WALL		WATER GATE VALVE
	SILT FENCE		WATER SHUTOFF
	SILT SOCK		THRUST BLOCK
	SOL BOUNDARY		WATER METER
	LIMIT OF GRADING		WATER MANHOLE
	CONTOUR		WELL
	SPOT GRADE		GAS GATE VALVE
	PARKING COUNT		GAS SHUT OFF
	YELLOW DOUBLE SOLID LINE		GAS METER
	YELLOW SINGLE SOLID LINE		TELEPHONE MANHOLE
	WHITE SINGLE SOLID LINE		TRAFFIC CONTROL CABINET
	WHITE SINGLE BROKEN LINE		ELECTRIC HANDHOLE
	STOP BAR		ELECTRIC PULL BOX
	CROSSWALK		ELECTRIC METER
	ACCESSIBLE PARKING SYMBOL		FLOOD LIGHT
	PAVEMENT ARROW		LIGHT POLE
	TRAFFIC FLOW ARROW (NOT PAINTED)		UTILITY POLE
	SIGN (SINGLE POST)		GUY POLE
	SIGN (DOUBLE POST)		TRANSFORMER PAD
	SIGN (CYLINDRICAL POST)		BORING LOCATION
	SIGN (MONUMENT)		TEST PIT LOCATION
	BOLLARD		INFILTRATION TEST LOCATION
	DUMPSTER PAD		MONITORING WELL
ABBREVIATIONS			
GENERAL		UTILITIES	
ABAN	ABANDON	CB	CATCH BASIN
AC	ACRES	CIP	CAST IRON PIPE
ADJ	ADJUST	CMP	CORRUGATED METAL PIPE
APPROX	APPROXIMATE	CO	CLEANOUT
BC	BOTTOM OF CURB	COND	CONDUIT
BIT	BITUMINOUS	DCB	DOUBLE CATCH BASIN
BOOK	BOOK & PAGE	DIP	DUCTILE IRON PIPE
BLDG	BUILDING	DMH	DRAIN MANHOLE
BS	BOTTOM OF SLOPE	F&C	FRAME AND COVER
BW	BOTTOM OF WALL	F&O	FRAME AND GRATE
CONC	CONCRETE	FES	FLARED END SECTION
COORD	COORDINATE	GT	GREASE TRAP
DIA	DIAMETER	HDP	HIGH DENSITY POLYETHYLENE PIPE
ELEV	ELEVATION	HH	HANDHOLE
EP	EDGE OF PAVEMENT	HW	HEADWALL
FFE	EXISTING FLOOR ELEVATION	HYD	HYDRANT
FND	FOUNDATION	LP	LIGHT POLE
HP	HIGH POINT	OCS	OUTLET CONTROL STRUCTURE
INV	INVERT ELEVATION	PVC	POLYVINYL CHLORIDE PIPE
IT	INFILTRATION TEST	RCP	REINFORCED CONCRETE PIPE
L	LENGTH	RD	ROOF DRAIN
LF	LINEAR FEET	RO	SEWER MANHOLE
LSA	LANDSCAPE AREA	SOS	SEDIMENT OIL SEPARATOR
MAX	MAXIMUM	TSV	TAPPING SLEEVE, VALVE, AND BOX
MIN	MINIMUM	UP	UTILITY POLE
N/F	NOW OR FORMERLY		
NTS	NOT TO SCALE		
OC	ON CENTER		
PAVE	PAVE		
PERF	PERFORATED		
PROP	PROPOSED		
R	RADIUS		
R&D	REMOVE AND DISPOSE		
R&R	REMOVE AND RESET		
REM	REMOVE		
RET	RETAIN		
RIM	RIM ELEVATION		
ROW	RIGHT OF WAY		
S	SLOPE		
SF	SQUARE FEET		
SW	SIDEWALK		
TBM	TEMPORARY BENCHMARK		
TO	TOP OF CURB		
TP	TEST PIT		
TW	TOP OF WALL		
TYP	TYPICAL		
UG	UNDERGROUND		
WCR	ACCESSIBLE WHEELCHAIR RAMP		
W/	WITH		

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## GENERAL NOTES

- THESE PLANS ARE PERMIT DRAWINGS ONLY AND HAVE NOT BEEN DETAILED FOR CONSTRUCTION OR BIDDING.
- THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TMORAN, INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- THE SITE PLAN SHALL BE RECORDED IN THE STRAFFORD COUNTY REGISTRY OF DEEDS.
- ALL IMPROVEMENTS SHOWN ON THE SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE CITY PLANNING BOARD.
- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE CITY OF ROCHESTER, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WORK TO CONFORM TO CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS. ALL WORK WITHIN THE RIGHT-OF-WAY OF THE CITY AND/OR STATE SHALL COMPLY WITH APPLICABLE STANDARDS. COORDINATE ALL WORK WITHIN THE RIGHT-OF-WAY WITH APPROPRIATE CITY, COUNTY, AND/OR STATE AGENCY.
- THE SITE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF ENV-WO 1500. THE SITE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF CONSTRUCTION OF EACH STORMWATER FACILITY TO COORDINATE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL TAKE PROGRESS PHOTOS DURING CONSTRUCTION OF ALL STORMWATER DRAINAGE COMPONENTS AND SEND TO THE ENGINEER.
- SEE EXISTING CONDITIONS PLAN FOR THE HORIZONTAL AND VERTICAL DATUM.
- SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
- CONTACT EASEMENT OWNERS PRIOR TO COMMENCING ANY WORK WITHIN THE EASEMENTS.
- PRIOR TO COMMENCING ANY SITE WORK, ALL LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD.
- SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS. NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET.
- TMORAN, INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- TEMPORARY FENCING SHALL BE PROVIDED AND COVERED WITH A FABRIC MATERIAL TO CONTROL DUST MITIGATION.
- ALL DEMOLITION SHALL INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS, AND ANY OTHER ADJACENT OPERATING FACILITIES. PRIOR WRITTEN PERMISSION FROM THE OWNER/DEVELOPER AND LOCAL PERMITTING AUTHORITY IS REQUIRED IF CLOSURE/OBSTRUCTIONS TO ROADS, STREET, WALKWAYS, AND OTHERS IS DEEMED NECESSARY. CONTRACTOR TO PROVIDE ALTERNATE ROUTES AROUND CLOSURES/OBSTRUCTIONS PER LOCAL/STATE/FEDERAL REGULATIONS.
- REFER TO ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING FOUNDATIONS AND CONCRETE ELEMENTS WHICH ABUT THE BUILDING SUCH AS STAIRS, SIDEWALKS, LOADING DOCK RAMPS, PADS, AND COMPACTOR PADS. DO NOT USE SITE PLANS FOR LAYOUT OF FOUNDATIONS.
- IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- CONTRACTOR'S GENERAL RESPONSIBILITIES:
  - BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS.
  - NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF PROPOSED LAYOUT AND/OR EXISTING FEATURES.
  - EMPLOY A LICENSED SURVEYOR TO DETERMINE ALL LINES AND GRADES AND LAYOUT OF SITE ELEMENTS AND BUILDINGS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO BECOME FAMILIAR WITH THE SITE AND ALL SURROUNDINGS. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
  - TAKE APPROPRIATE MEASURES TO REDUCE, TO THE FULLEST EXTENT POSSIBLE, NOISE, DUST AND UNSIGHTLY DEBRIS. CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT BETWEEN THE HOURS OF 7 AM AND 6 PM, MONDAY THROUGH FRIDAY AND 8 AM AND 6 PM ON SATURDAY IN ACCORDANCE WITH "STANDARD OF INFRASTRUCTURE DESIGN, ROCHESTER, NEW HAMPSHIRE".
  - MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY WORK AT ALL TIMES.
  - IN ACCORDANCE WITH RSA 430:53 AND AGR 3800, THE CONTRACTOR SHALL NOT TRANSPORT INVASIVE SPECIES OFF THE PROPERTY, AND SHALL DISPOSE OF INVASIVE SPECIES ON-SITE IN A LEGAL MANNER.
  - COORDINATE WITH ALL UTILITY COMPANIES AND CONTACT DIGSAFE (811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
  - PROTECT NEW AND EXISTING BURIED UTILITIES DURING INSTALLATION OF ALL SITE ELEMENTS. DAMAGED UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
  - WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
  - VERIFY LAYOUT OF PROPOSED BUILDING FOUNDATIONS WITH ARCHITECT AND THAT PROPOSED FOUNDATION MEETS PROPERTY LINE SETBACKS PRIOR TO COMMENCING ANY FOUNDATION CONSTRUCTION.
  - PROVIDE AN AS-BUILT PLAN AT THE COMPLETION OF THE PROJECT TO THE PLANNING DIRECTOR AND PER CITY REGULATIONS.
  - IF ANY DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS HAVE BEEN MADE, THE SITE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS STAMPED BY A LICENSED SURVEYOR OR QUALIFIED ENGINEER ALONG WITH A LETTER STAMPED BY A QUALIFIED ENGINEER DESCRIBING ALL SUCH DEVIATIONS, AND BEAR ALL COSTS FOR PREPARING AND FILING ANY NEW PERMITS OR PERMIT AMENDMENTS THAT MAY BE REQUIRED.
  - AT COMPLETION OF CONSTRUCTION, THE SITE CONTRACTOR SHALL PROVIDE A LETTER CERTIFYING THAT THE PROJECT WAS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND A LETTER STAMPED BY A QUALIFIED ENGINEER THAT THEY HAVE OBSERVED ALL UNDERGROUND DETENTION SYSTEMS, INFILTRATION SYSTEMS, OR FILTERING SYSTEMS PRIOR TO BACKFILL, AND THAT SUCH SYSTEMS CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.

## GRADING NOTES

- THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NHDES ENV-WO 1500 AS APPLICABLE.
- THE CONTRACTOR SHALL PREPARE, MAINTAIN, AND EXECUTE A S.W.P.P. IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN MNOI AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
- THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT SOIL AND GROUNDWATER CONDITIONS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDED METHODS TO ADDRESS ANY SOIL AND GROUNDWATER ISSUES THAT ARE FOUND ON SITE.
- COORDINATE WITH GEOTECHNICAL/STRUCTURAL PLANS FOR SITE PREPARATION AND OTHER BUILDING INFORMATION.
- COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILED GRADING AT BUILDING, AND SIZE AND LOCATION OF ALL BUILDING SERVICES.
- COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ROOF DRAIN INFORMATION.
- LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS, AND ALIGNMENTS.
- THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE, RAMPS, AND LOADING AREAS.
- THE SITE SHALL BE GRADED SO ALL FINISHED PAVEMENT HAS POSITIVE DRAINAGE AND SHALL NOT POND WATER DEEPER THAN 1/4" FOR A PERIOD OF MORE THAN 15 MINUTES AFTER FLOODING.
- ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.
- ALL SIDEWALK AND OTHER CURB REVEALS SHALL BE 6" WITH A TOLERANCE OF PLUS OR MINUS 3/8", WHERE SIDEWALK IS TO BE FLUSH, THE PAVEMENT REVEAL SHALL BE 1/4" WITH A TOLERANCE OF 1/8".
- THE FINISHED GRADE AT BOTTOM OF ALL ACCESSIBLE RAMPS SHALL BE FLUSH WITH PAVEMENT WITH A TOLERANCE OF PLUS OR MINUS 1/4".
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE PRIOR TO INSTALLATION OF FINISHED PAVEMENT.
- ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND SHALL MEET LOCAL STANDARDS AND THE REQUIREMENTS OF THE LATEST NHDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE NHDOT STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
- STORMWATER DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHDOT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED, FERTILIZER, AND MULCH.
- DENSITY REQUIREMENTS:

MINIMUM DENSITY*	LOCATION
95%	BELOW PAVED OR CONCRETE AREAS
95%	TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL
90%	BELOW LOAM AND SEED AREAS

\*ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM D-6938.

## UTILITY NOTES

- ALL UTILITY SERVICES TO BUILDING ADDITION TO BE PROVIDED INTERNALLY FROM EXISTING BUILDING.

### APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159  
**NOTES & LEGEND**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

SCALE: NTS

APRIL 27, 2021

Seacoast Division

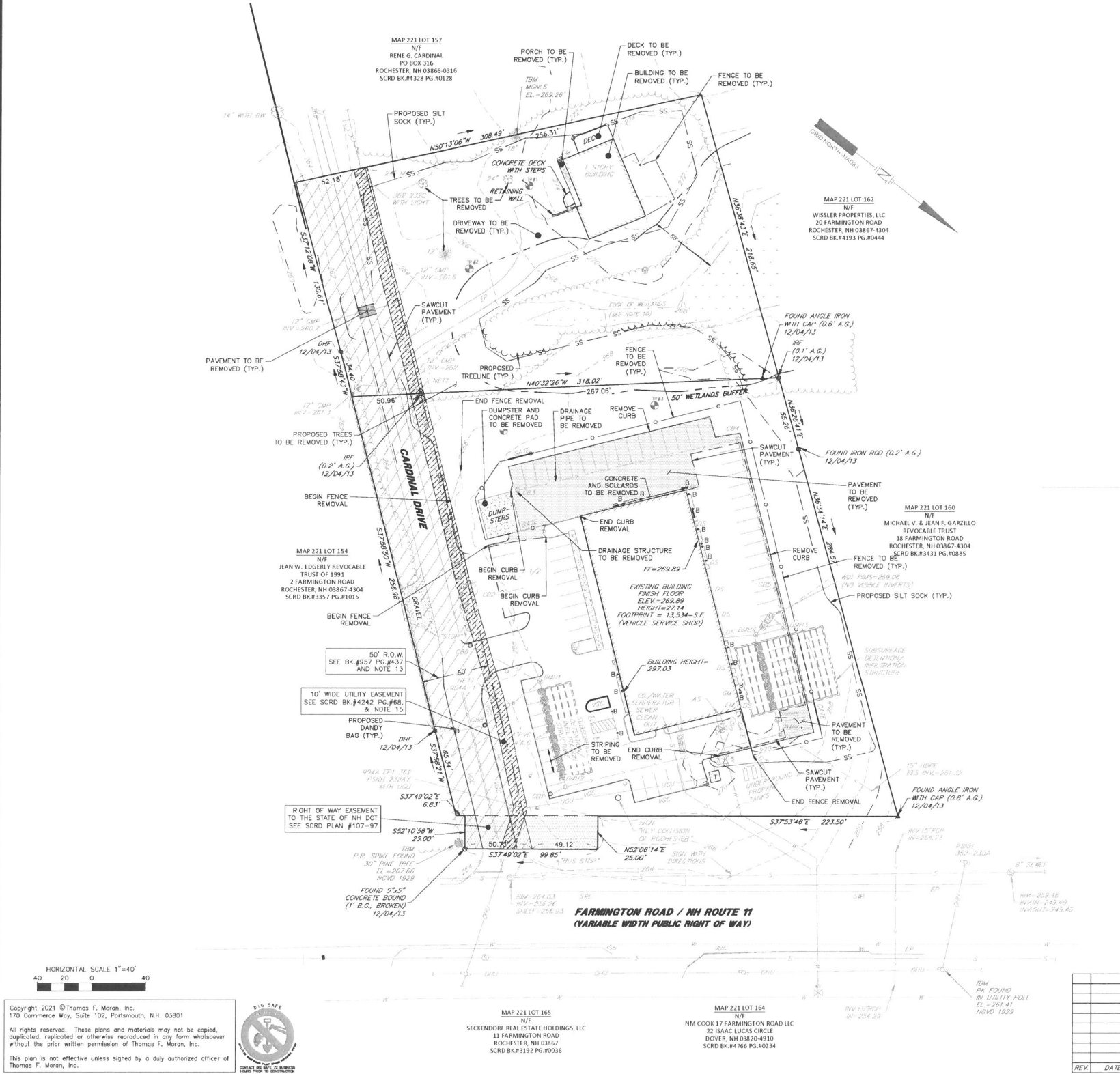


Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

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Phone (603) 431-2222  
Fax (603) 431-0810  
www.tfmoran.com

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CK CRK CADFILE 47424-00 - NOTES & LEGEND C-02

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## NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATIONS, SIZE, AND ELEVATIONS OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS PRIOR TO THE START OF ANY DEMOLITION. THE LOCATIONS SHOWN ON THESE PLANS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED DEMOLITION TO DETERMINE APPROPRIATE ACTION TO BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ANTICIPATE CONFLICTS AND REPAIR EXISTING UTILITIES AS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY WORK AT ALL TIMES.
3. THE CONTRACTOR SHALL VERIFY ALL SURVEY INFORMATION IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
4. CONSTRUCTION DEBRIS AND INVASIVE SPECIES SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
5. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PLACE ORANGE CONSTRUCTION FENCING AROUND EACH TREE TO BE RETAINED THROUGHOUT CONSTRUCTION. NO STOCKPILES OF MATERIAL ARE PERMITTED WITHIN THE DRIP LINE OF THE TREES TO BE SAVED.
6. CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY IF ANY TREES ARE DAMAGED DURING CONSTRUCTION.

## CONSTRUCTION SEQUENCE NOTES

TO MINIMIZE EROSION AND SEDIMENTATION DUE TO CONSTRUCTION, CONSTRUCTION SHALL FOLLOW THIS GENERAL CONSTRUCTION SEQUENCE.

MODIFICATIONS TO THE SEQUENCE NECESSARY DUE TO THE CONTRACTOR'S SCHEDULE SHALL INCLUDE APPROPRIATE TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES.

THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY CONSTRUCTION AREA IS STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE EXCEPT AS NOTED BELOW. NO MORE THAN 5 ACRES OF DISTURBED LAND SHALL BE UNSTABILIZED AT ANY ONE TIME.

THE PROJECT SHALL BE MANAGED SO THAT IT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILTRATION SYSTEM. STORMWATER RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED.

DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

AFTER THE INFILTRATION SYSTEM IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE THE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.

1. NOTIFY EASEMENT OWNERS PRIOR TO COMMENCEMENT OF WORK.
2. INSTALL ALL PERIMETER EROSION PROTECTION MEASURES AS INDICATED ON THE PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. DURING CONSTRUCTION EVERY EFFORT SHALL BE MADE TO MANAGE SURFACE RUNOFF QUALITY.
4. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT BARRIERS, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED. (TEMPORARY SEED MIXTURE OF WINTER RYE APPLIED AT A RATE OF 2.5 LBS/1000 SF SHALL BE USED).
5. CONDUCT MAJOR EARTHWORK, INCLUDING CLEARING AND GRUBBING, WITHIN THE LIMITS OF WORK. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN 72 HOURS AFTER GRADING.
6. ALL STRIPPED TOPSOIL AND OTHER EARTH MATERIALS SHALL BE STOCKPILED OUTSIDE THE IMMEDIATE WORK AND WETLAND AREAS. A SILT BARRIER SHALL BE CONSTRUCTED AROUND THESE PILES IN A MANNER TO PROVIDE ACCESS AND AVOID SEDIMENT OUTSIDE OF THE WORK AREA.
7. CONSTRUCT BUILDING PAD AND COMMENCE NEW BUILDING CONSTRUCTION.
8. CONSTRUCT TEMPORARY CULVERTS AND DIVERSIONS AS REQUIRED.
9. BEGIN PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH.
10. PERFORM EARTHWORK NECESSARY TO ESTABLISH ROUGH GRADING AROUND PARKING FIELDS AND ACCESS DRIVES. MANAGE EXPOSED SOIL SURFACES TO AVOID TRANSPORTING SEDIMENTS INTO WETLANDS. PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
11. CONSTRUCT PROPOSED PARKING AREA.
12. COMPLETE BUILDING AND ALL OFF-SITE IMPROVEMENTS.
13. COMPLETE SEEDING AND MULCHING. SEED TO BE APPLIED WITH BROADCAST SPREADER OR BY HYDRO-SEEDING, THEN ROLLED, RAKED, OR DRAGGED TO ASSURE SEED/SOIL CONTACT.
14. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDED AREAS HAVE BECOME FIRMLY ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE.
15. DURING THE COURSE OF THE WORK AND UPON COMPLETION, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT DEPOSITS, EITHER ON OR OFF SITE, INCLUDING CATCH BASINS, AND SUMPS, DRAIN PIPES AND DITCHES, CURB LINES, ALONG SILT BARRIERS, ETC. RESULTING FROM SOIL AND/OR CONSTRUCTION OPERATIONS.
16. SEE WINTER CONSTRUCTION SEQUENCE FOR WORK CONDUCTED AFTER OCTOBER 15TH.

## APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159

**SITE PREPARATION PLAN**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

1"=80' (11"X17")

SCALE: 1"=40' (22"X34')

APRIL 27, 2021

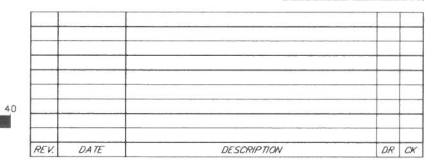
Seacoast Division


**TFM**  
Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

170 Commerce Way, Suite 102  
Portsmouth, NH 03801  
Phone (603) 431-2222  
Fax (603) 431-0910  
www.tfmoran.com

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CK CKR CADFILE 47424-00 - SITE PREPARATION

C-03



- | SIGN LEGEND       |   |               |        |   |                 |
|-------------------|---|---------------|--------|---|-----------------|
| ID                | SIGN  | SIZE (INCHES) |        | DESIGN<br>(COLORING, TEXT SIZE,<br>SPACING, SHAPE,<br>RETROREFLECTIVITY, ETC.)                        | NO. OF<br>SIGNS |
|                   |   | WIDTH         | HEIGHT |   |                 |
| R7-B <sup>1</sup> |  | 12            | 18     | REFER TO THE 2009 MANUAL<br>ON UNIFORM TRAFFIC<br>CONTROL DEVICES (MUTCD)<br>FOR STREETS AND HIGHWAYS | 3               |

**APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD**

**APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD**

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ON \_\_\_\_\_

BOARD MEMBER \_\_\_\_\_

BOARD MEMBER \_\_\_\_\_

GUARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 &amp; 159

### SITE LAYOUT PLAN

10 FARMINGTON ROAD

ROCHESTER, NEW HAMPSHIRE

ROCHESTER, NEW HAMPSHIRE  
COUNTY OF STRAFFORD

COUNTY OF STRAFFORD  
PREPARED FOR

10 FARMINGTON ROAD, LLC

15 FARMINGTON ROAD, LEO

41-80' (41'X47')

SCALE: 1"=40' (22"X34") APRIL 27, 2001

SCALE 1-40 (22 X 34) APRIL 21, 2011

Seacoast Division

Civil Engineers  
Structural Engineers  
170 Commerce Way, Suite 102  
Barnstable, MA 01901

**TEM** Traffic Engineers  
and Engineers  
Inc.

**LAND SURVEYORS**  
**LANDSCAPE ARCHITECTS**

Scientists | www.tfmoran.com

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This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.



FARMINGTON ROAD / NH ROUTE 11  
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)

HORIZONTAL SCALE 1"=30'  
30 15 0 30

REV.	DATE	DESCRIPTION	DR	CK

### DRAINAGE STRUCTURE TABLE

CB-1 RM=268.80 INV=265.02 (N) INV=264.92 (OUT) SUMP=261.9	DMH-8 RM=270.3 INV=265.51 (N) INV=265.41 (OUT)	CB-15 RM=267.15 INV=264.08 (OUT) SUMP=260.0
CB-2 INV=268.03 INV=264.87 (OUT) SUMP=261.8	DMH-9 RM=268.0 INV=264.30 (N) INV=264.20 (OUT)	HW-16 INV=264.0
CB-3 INV=268.03 INV=264.46 (N) INV=264.36 (OUT) SUMP=260.3	DMH-10 RM=268.3 INV=264.12 (N - CB-4) INV=264.11 (N - CB-3) INV=264.02 (OUT)	CB-17 RM=267.6 INV=263.95 (OUT) SUMP=260.9
CB-4 INV=267.8 INV=264.42 (N) INV=264.32 (OUT) SUMP=260.3	DMH-11 RM=267.9 INV=263.91 (N) INV=263.81 (OUT)	HW-18 INV=262.1
DMH-5 RM=268.0 INV=263.65 (OUT)	DMH-12 RM=268.0 INV=263.77 (N) INV=263.65 (OUT)	HW-19 INV=261.8
CB-6 RM=269.4 INV=265.75 (OUT) SUMP=262.7	DMH-13 RM=268.2 INV=263.63 (N) INV=264.50 (OUT)	HW-20 INV=261.0
DMH-7 RM=270.0 INV=265.70 (N) INV=265.60 (OUT)	DMH-14 RM=268.3 INV=263.75 (N) INV=263.65 (OUT)	HW-21 INV=260.8

SITE SPECIFIC SOIL MAP UNIT KEY				
SYMBOL	MAP UNIT	SLOPE, %	DRAINAGE CLASS	HYDROLOGIC SOIL GROUP
68B	SUTTON FINE SANDY LOAM	0-8	MODERATELY WELL	32'BH B
68C	SUTTON FINE SANDY LOAM	8-15	MODERATELY WELL	32'CH B
68B	HOLLIS FINE SANDY LOAM	0-8	WELL	22'4BH D
500B/ccode	UDORTHENTS, LOAMY	0-8	WELL	26'1BH B
500C/ccode	UDORTHENTS, LOAMY	8-15	WELL	26'1CH B
500D/ccode	UDORTHENTS, LOAMY	15-25	WELL	26'1DH B
500B/ccode	UDORTHENTS, LOAMY	0-8	MODERATELY WELL	36'1BH B
500C/ccode	UDORTHENTS, LOAMY	8-15	MODERATELY WELL	36'1CH B
500D/ccode	UDORTHENTS, LOAMY	15-25	MODERATELY WELL	36'1DH B
500B/ccode	UDORTHENTS, LOAMY	0-8	MODERATELY WELL	36'7BH B
500C/ccode	UDORTHENTS, LOAMY	8-15	MODERATELY WELL	36'7CH B
500B/ccode	UDORTHENTS, LOAMY	0-8	UNDETERMINABLE	76'1BH B**
5146B	LEICESTER FINE SANDY LOAM	0-8	POORLY	52'1BH C

APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159

**GRADING & DRAINAGE PLAN**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

1"=60' (11"X17")  
SCALE: 1"=30' (22"X34")

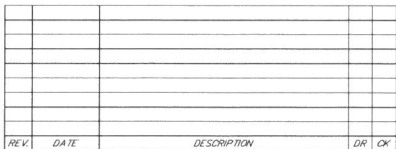
APRIL 27, 2021

Seacoast Division

**TFM**  
Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

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CK CRR CADFILE 47424-00 - GRADING



SYMBOL	QTY	BOTANICAL NAME COMMON NAME	SIZE	REMARKS
	2	ACER RUBRUM 'OCTO GLORY' REDBUD GLORY TREE	2 1/2" TO 3" CAL.	B&B
	2	AMELANCHIER CANADENSIS SHADBLOW SERVICEBERRY	2" TO 2 1/2" CAL.	B&B
	2	PLATANUS X ACREFOLIA 'BLOODGOOD' BLOODGOOD LONDON PLANETREE	2 1/2" TO 3" CAL.	B&B
	7	TSUGA CANADENSIS CANADIAN HEMLOCK	6' TO 7'	B&B
	27	JUNIPERUS C. 'SEAGREEN' SEAGREEN JUNIPER	5 GAL.	CONT.
	6	SPIRAEA J. 'LITTLE PRINCESS' LITTLE PRINCESS SPIREA	3 GAL.	CONT.
	4	SYRINGA 'INKERBELLE' INKERBELLE LILAC	2" TO 2 1/2"	B&B
	23	THUJA O. 'TECHNY' MISSION ARBORVITAE	5' TO 6'	B&B
	2	VBURNUM LENTAGO NANNYBERRY VIBURNUM	5' TO 6'	B&B
	23	MISCANTHUS S. 'VAREGATA' SILVER VARIEGATED GRASS	3 GAL.	CONT.

**GENERAL PROVISIONS: ARTICLE III §.50(b)(12)**

MINIMUM OF 25% OF THE TOTAL LAND AREA OF ANY DEVELOPMENT SITE SHALL BE DEVOTED TO UNDEVELOPED AREAS OR LEFT IN AN UNALTERED NATURAL STATE.

REQUIRED: 41,523 SF  
PROVIDED: 72,078 SF (43.33%)

**FRONT & SIDE BUFFER PLANTING REQUIREMENTS: ARTICLE III §.50(f)**

1. ONE BROAD-LEAVED SHADE TREE PER 40 LINEAR FEET OF FRONT BUFFER  
-N/A PREVIOUSLY APPROVED DURING ORIGINAL DEVELOPMENT.
2. TWO SHADE TREES, SPACED AT LEAST 40' APART, SHALL BE LOCATED WITHIN THE FRONT 50' OF EACH SIDE BUFFER.  
-N/A PREVIOUSLY APPROVED DURING ORIGINAL DEVELOPMENT.
3. THE FRONT BUFFER AND FRONT 50 FEET OF BOTH SIDE BUFFERS SHALL BE PLANTED WITH SHRUBS AND SHRUBS IN ORDER THAT, AT MATURITY (DEFINED HEREIN TO BE 5 YEARS FROM INSTALLATION), AT LEAST 33-1/3% OF THE AREA OF THE BUFFER, AS LOOKED DOWN UPON FROM ABOVE, WOULD BE COVERED BY THE CANOPIES/CROWNS OF THE TREES AND SHRUBS.  
-N/A PREVIOUSLY APPROVED DURING ORIGINAL DEVELOPMENT.

ARTICLE III §.50(f)(8)

**PARKING LOT PLANTING REQUIREMENTS: ARTICLE III §.50(f)**

1. OFF-STREET PARKING AREAS SHALL BE SCREENED FROM THE PUBLIC RIGHT-OF-WAY TO PROVIDE AT LEAST 50% VERTICAL OPENING ON AVERAGE UP TO A HEIGHT OF 3-1/2 FEET ABOVE GRADE, EXCLUDING SLOPE TRIANGLES AT VEHICULAR ENTRANCES AND EXITS. A MODERATELY DENSE HEDGE COMPOSED OF NON-INVASIVE SHRUBS SHALL BE PLANTED WHICH IS REASONABLY EXPECTED TO REACH THIS OPENITY AND HEIGHT WITHIN ONE YEAR. ARTICLE III §.50(f)(2)
2. SHADE AND/OR ORNAMENTAL TREES SHALL BE PLANTED IN AND AROUND THE PARKING LOT IN ORDER THAT NO SPOT ON THE PARKING LOT IS SITUATED FURTHER THAN 70 FEET FROM THE CENTER OF THE TRUNK OF A SHADE OR ORNAMENTAL TREE. ARTICLE III §.50(f)(9)

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

**LANDSCAPE PLAN**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
 PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

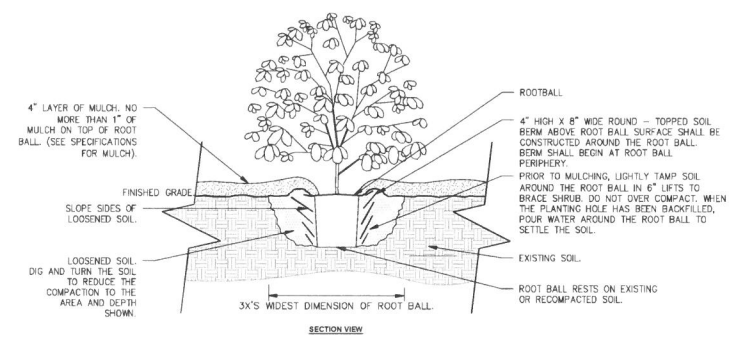
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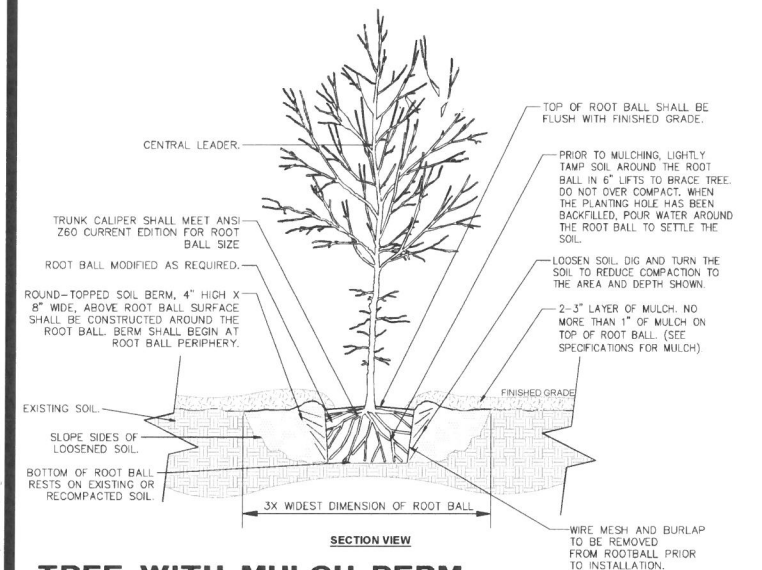
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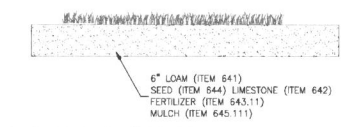
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**SHRUB PLANTING**  
NOT TO SCALE



**TREE WITH MULCH BERM**  
NOT TO SCALE



**LOAM & SEED**  
NOT TO SCALE

**LANDSCAPE NOTES**

1. CONTRACTOR WILL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWNWORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES WILL IMMEDIATELY BE REPORTED TO THE LANDSCAPE ARCHITECT OR OWNERS' REPRESENTATIVE, SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
  2. CONTRACTOR WILL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. IN CASES OF DISCREPANCY BETWEEN PLAN AND LIST CLARIFY WITH LANDSCAPE ARCHITECT PRIOR TO PLACING PURCHASE ORDER AND AGAIN PRIOR TO PLANTING.
  3. SEE PLANTING DETAILS AND IF INCLUDED, SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  4. NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
  5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE THE APPROPRIATE ARRANGEMENTS TO PROVIDE ALL PLANTS AND MATERIALS TO ACCOMMODATE PLANTING WITHIN THE TIME ALLOWED BY THE CONSTRUCTION SCHEDULE.
  6. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH OCTOBER 15TH UNLESS OTHERWISE NOTED IN SPECIFICATIONS. THERE WILL BE NO PLANTING DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT BY PROVIDING ADDITIONAL WATERING.
  7. ALL PLANTS WILL BE NURSERY GROWN.
  8. PLANTS WILL BE IN ACCORDANCE, AT A MINIMUM, WITH CURRENT EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN HORTICULTURE INDUSTRY ASSOCIATION.
  9. TREES WILL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 PART 1, "TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE STANDARD PRACTICES".
  10. PLANTS MATERIAL IS SUBJECT TO APPROVAL / REJECTION BY THE LANDSCAPE ARCHITECT AT THE SITE AND AT THE NURSERY.
  11. ALL PLANTS WILL BE MOVED WITH ROOT SYSTEMS AS SOLID UNITS AND WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. NO PLANT WILL BE ACCEPTED WHEN BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN BEFORE PLANTING. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE WILL BE HEELED-IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL AND THEN WATERING. DURING TRANSPORT, ALL PLANT MATERIALS WILL BE WRAPPED WITH WIND PROOF COVERING.
  12. NEWLY PLANTED MATERIAL WILL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL GRADE OF THE PLANT PRIOR TO DIGGING.
  13. PROPOSED TREES OVERHANGING SIDEWALKS, ROADS OR PARKING WILL BEGIN BRANCHING NATURALLY (NOT PRUNED) AT 6' HEIGHT.
  14. MULCH FOR PLANTED AREAS (NOT INCLUDING RAIN GARDENS) WILL BE AGED SHREDDED PINE BARK, PARTIALLY DECOMPOSED, DARK BROWN IN COLOR AND FREE OF WOOD CHIPS UNLESS OTHERWISE SHOWN.
  15. PLANT MATERIAL WILL BE LOCATED OUTSIDE BUILDING DRIPLINES AND ROOF VALLEY POINTS OF CONCENTRATION TO PREVENT DAMAGE TO PLANTS. CLARIFY DISCREPANCIES WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
  16. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, WILL RECEIVE SIX (6) INCH LOAM AND SEED AT THE DIRECTION OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
  17. ALL PLANT GROUPINGS WILL BE IN MULCH BEDS UNLESS OTHERWISE SPECIFIED OR NOTED ON PLANS. WHERE MULCHED PLANT BED ADJUTS LAWN, PROVIDE TURF CUT EDGE.
  18. ALL PLANT BEDS WILL INTERSECT WITH PAVEMENT AT 90 DEGREES UNLESS OTHERWISE NOTED ON PLANS.
  19. ALL PLANT BED EDGES WILL BE SMOOTH AND CONSISTENT IN LAYOUT OF RADI AND TANGENTS. IRREGULAR, WAVY EDGES WILL NOT BE ACCEPTED.
- LANDSCAPE GUARANTEE AND MAINTENANCE NOTES**
1. CONTRACTOR WILL BE RESPONSIBLE FOR ALL MEANS, METHODS AND TECHNIQUES OF WATERING.
  2. CONTRACTOR WILL BEGIN WATERING IMMEDIATELY AFTER PLANTING. ALL PLANTS WILL BE THOROUGHLY WATERED TWICE DURING THE FIRST 48 HOUR PERIOD AFTER PLANTING. ALL PLANTS WILL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON BUT NOT LESS THAN ONE YEAR.
  3. WATER ALL LAWNS AS REQUIRED. DO NOT LET NEWLY PLANTED LAWNS DRY OUT DURING THE FIRST FOUR WEEKS MINIMUM.
  4. ALL NEW LAWNS WILL BE MAINTAINED AND MOWED A MINIMUM THREE (3) TIMES BEFORE REQUESTING REVIEW BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE FOR ACCEPTANCE. MAINTENANCE AND MOWING WILL CONTINUE UNTIL ACCEPTED BY LANDSCAPE ARCHITECT OR OWNERS' REPRESENTATIVE IS ISSUED IN WRITING.
  5. THE CONTRACTOR WILL MAINTAIN AND GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE SHOWING LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE (1) YEAR PERIOD WILL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.
  6. ALL ORNAMENTAL GRASSES WILL BE CUT BACK EVERY FALL OR EARLY SPRING.
  7. DECIDUOUS PLANT MATERIAL INSTALLED AFTER SEPTEMBER 30 AND BEFORE APRIL 15 WILL NOT BE REVIEWED THAT SEASON FOR ACCEPTANCE DUE TO STAGE OF LEAF PHYSIOLOGY. THIS PLANT MATERIAL WILL NOT BE REVIEWED UNTIL FOLLOWING GROWING SEASON. GUARANTEE PERIOD WILL BEGIN ONLY AFTER ACCEPTANCE BY LANDSCAPE ARCHITECT OR OWNERS' REPRESENTATIVE.
  8. EVERGREEN PLANT MATERIAL INSTALLED AFTER OCTOBER 30 AND BEFORE APRIL 15 WILL NOT BE REVIEWED THAT SEASON FOR ACCEPTANCE DUE TO END OF GROWTH SEASON. THIS PLANT MATERIAL WILL NOT BE REVIEWED UNTIL FOLLOWING GROWING SEASON. GUARANTEE PERIOD WILL BEGIN ONLY AFTER ACCEPTANCE BY LANDSCAPE ARCHITECT OR OWNERS' REPRESENTATIVE.

**HYDROSEEDING NOTES**

1. HYDROSEEDING MAY BE USED AS AN ALTERNATE METHOD OF SEEDING. THE APPLICATION OF LIMESTONE AS NECESSARY, FERTILIZER AND GRASS SEED MAY BE ACCOMPLISHED IN ONE OPERATION BY THE USE OF A SPRAYING MACHINE APPROVED BY THE LANDSCAPE ARCHITECT OR CIVIL ENGINEER. THE MATERIALS SHALL BE MIXED WITH WATER IN THE MACHINE AND SHALL CONFORM TO RELATIVE REQUIREMENTS OF SECTION 644 OF NH. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

**INVASIVE PLANT NOTES**

1. EXISTING NON-NATIVE, INVASIVE PLANT SPECIES WILL BE IDENTIFIED, REMOVED, DESTROYED AND LEGALLY DISPOSED OF IN ACCORDANCE WITH THE LATEST UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION METHODS OF DISPOSING NON-NATIVE INVASIVE PLANTS. SEE "MANAGE AND CONTROL INVASIVES" AND PROPERLY DISPOSE OF INVASIVE PLANTS.

**PRICING & CONSTRUCTION DOCUMENT NOTES**

1. CONTRACTOR WILL PRICE PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE PLANTINGS GRAPHICALLY SHOWN ON THESE DRAWINGS OR IN PLANT LIST, WHICHEVER IS GREATER. IN CASES OF DISCREPANCY BETWEEN PLAN AND LIST CLARIFY WITH LANDSCAPE ARCHITECT PRIOR TO PLACING PURCHASE ORDER AND AGAIN PRIOR TO PLANTING.
2. CONTRACTOR WILL VERIFY PRIOR TO PRICING IF SITE SOILS ARE VERY POORLY DRAINING OR IF LEDGE IS PRESENT. IF CONTRACTOR ENCOUNTERS VERY POORLY DRAINING SOILS (BATH TUB EFFECT) OR LEDGE THAT IMPACTS PROPOSED PLANTING PLAN, NOTIFY LANDSCAPE ARCHITECT OR OWNERS' REPRESENTATIVE FOR DIRECTION PRIOR TO PRICING AND AGAIN PRIOR TO PERFORMING ANY WORK.
3. PARKING AREA PLANTED ISLANDS WILL HAVE MINIMUM OF 1'-0" TOPSOIL PLACED TO THE TOP OF CURB ELEVATION. REMOVE ALL CONSTRUCTION DEBRIS BEFORE PLACING TOPSOIL.
4. EXISTING TREES SHOWN ON THE PLAN WILL REMAIN UNDISTURBED. ALL EXISTING TREES SHOWN TO REMAIN WILL BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK.
5. CONTRACTOR WILL STAKE OR PLACE ON GROUND ALL PROPOSED PLANT MATERIALS PER PLAN. CONTACT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
6. COORDINATE WITH LANDSCAPE ARCHITECT'S CONTRACTED NUMBER OF SITE VISITS WHEN PLANNING FOR INSPECTION. NOTIFY LANDSCAPE ARCHITECT 72 HOURS MINIMUM IN ADVANCE OF REQUESTED SITE VISIT.
7. CONTRACTOR WILL DEVELOP A WRITTEN WATERING SCHEDULE AND WILL SUBMIT WATERING SCHEDULE TO OWNERS' REPRESENTATIVE. CONTRACTOR WILL WATER ALL NEW PLANTS INCLUDING LAWNS THAT ARE NOT "IRRIGATED" VIA A PERMANENT IRRIGATION SYSTEM FOR THE FIRST 12 MONTHS.

**SEEDING NOTES**

1. SEEDING SHALL BE DONE BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 15, EXCEPT FOR RESEEDING OF BARE SPOTS AND MAINTENANCE. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PAVING OR AREAS THAT HAVE NOT BEEN OTHERWISE DEVELOPED SHALL BE SEEDD OR SOODED. SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET. AFTER OCTOBER 15 DISTURBED SOILS SHALL BE PROTECTED WITH THE WINTER CONSTRUCTION NOTES.
2. SLOPES UP TO AND INCLUDING 3:1 GRADE, SEED WILL BE NEW ENGLAND EROSION CONTROL & RESTORATION MIX PER NEW ENGLAND WETLANDS PLANTS INC., AMHERST, MA.
3. SLOPES STEEPER THAN 3:1 GRADE, SEED WILL BE NEW ENGLAND EROSION CONTROL & RESTORATION MIX PER NEW ENGLAND WETLANDS PLANTS INC., AMHERST, MA. SEE CIVIL FOR ADDITIONAL EROSION CONTROL MEASURES.
4. GENERAL SEED WILL BE NHDOT SPECIFICATION SECTION 644, TABLE 644-1--PARK SEED TYPE 15, INCLUDING NOTES TO TABLE 1, 2 & 3.

**IRRIGATION NOTES**

1. THE IRRIGATION SYSTEM SHALL BE DESIGNED BY AN APPROVED IRRIGATION DESIGN/BUILD CONTRACTOR OR BY AN APPROVED EQUAL, TO BE DETERMINED BY THE OWNERS REPRESENTATIVE/LANDSCAPE ARCHITECT.
2. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE IRRIGATION SYSTEM DESIGN AND SHOP DRAWINGS TO THE OWNER 30 DAYS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING AND PROPOSED UTILITIES AND NOTIFY THE OWNER'S REPRESENTATIVE OF CONFLICTS.
4. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO, THE COMPLETE INSTALLATION OF THE IRRIGATION SYSTEM AND SHALL FOLLOW ALL APPLICABLE CODES.
5. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF THE IRRIGATION SYSTEM'S BUILDING CONNECTION.
6. REFER TO MANUFACTURER'S INSTRUCTIONS AND PRODUCT SPECIFICATIONS FOR INSTALLATION.

**APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD**

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159  
**LANDSCAPE DETAILS**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

**APRIL 27, 2021**

Seacoast Division  
**TFM** Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists  
170 Commerce Way, Suite 102  
Portsmouth, NH 03801  
Phone (603) 431-2222  
Fax (603) 431-0810  
www.tfmoran.com

47424.00 DR DKE FB --  
CK CRR CADFILE H7424-00 -- LANDSCAPE DETAILS C-07

Apr 27, 2021 4:14pm  
F:\proj\proj\h7424\10 Farmington road\landscape\production drawings\h7424.dwg - Landscape Details.dwg

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Apr 17, 2021 - 5:15pm  
F:\mrc\project\224 - Farmington Road\Design\production drawings\47424-00 - Truck Movement.dwg

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MAP 221 LOT 157  
N/A  
RENE G. CARDINAL  
PO BOX 316  
ROCHESTER, NH 03866-0316  
SCRD BK #4328 PG #0128

MAP 221 LOT 162  
N/A  
WISSLER PROPERTIES, LLC  
20 FARMINGTON ROAD  
ROCHESTER, NH 03867-4304  
SCRD BK #4193 PG #0444

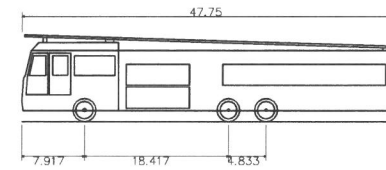
MAP 221 LOT 160  
N/A  
MICHAEL V. & JEAN F. GARZILLO  
REVOCABLE TRUST  
18 FARMINGTON ROAD  
ROCHESTER, NH 03867-4304  
SCRD BK #3431 PG #0885

MAP 221 LOT 154  
N/A  
JEAN W. EDERLY REVOCABLE  
TRUST OF 1991  
2 FARMINGTON ROAD  
ROCHESTER, NH 03867-4304  
SCRD BK #3357 PG #1015

MAP 221 LOT 165  
N/A  
SEKENDORF REAL ESTATE HOLDINGS, LLC  
11 FARMINGTON ROAD  
ROCHESTER, NH 03867  
SCRD BK #3192 PG #0036

MAP 221 LOT 164  
N/A  
NM COOK 17 FARMINGTON ROAD LLC  
22 ISAAC LUCAS CIRCLE  
DOVER, NH 03820-4910  
SCRD BK #4766 PG #0234

FARMINGTON ROAD / NH ROUTE 11  
(VARIABLE WIDTH PUBLIC RIGHT OF WAY)



E-ONE HP95 Mid Mount  
Overall Length 47.750ft  
Overall Width 8.333ft  
Overall Body Height 11.000ft  
Min Body Ground Clearance 1.393ft  
Track Width 8.333ft  
Lock-to-lock time 6.00s  
Max Wheel Angle 45.00°

HORIZONTAL SCALE 1"=40'  
40 20 0 20 40

REV.	DATE	DESCRIPTION	DR	CK

APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159  
**TRUCK MOVEMENT PLAN**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

1"=80' (11"X17")  
SCALE: 1"=40' (22"X34') APRIL 27, 2021



Seacoast Division  
Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

170 Commerce Way, Suite 102  
Portsmouth, NH 03801  
Phone (603) 431-2222  
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47424.00 DR DKE FB  
CK CRR CADFILE 47424-00 - TRUCK MOVEMENT

C-08

SOIL CHARACTERISTICS

THE SOIL IN THE VICINITY OF THE SITE CONSISTS OF HOLLIS, UDORHENTS, LEICESTER, AND SUTTON. THE MAJORITY OF THE SOIL IS H56 TYPE B.

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 69,843 SQUARE FEET (1.60 ACRES).

CRITICAL NOTE: THIS DRAWING IS PROVIDED FOR GENERAL GUIDANCE. ALL SPECIAL EROSION CONTROL MEASURES MUST BE EXECUTED IN ACCORDANCE WITH APPLICABLE CURRENT STATE AND LOCAL REGULATIONS, APPROVED SWPPP, AND PERMIT REQUIREMENTS.

SEQUENCE OF MAJOR ACTIVITIES

1. INITIAL STABILIZED CONSTRUCTION ENTRANCE AND TEMPORARY EROSION CONTROL MEASURES PER APPROVED SWPPP IF REQUIRED.
2. DEMOLISH EXISTING SITE WORK DESIGNATED FOR REMOVAL.
3. COMPLETE MAJOR GRADING OF SITE.
4. CONSTRUCT BUILDING PAD, STORMWATER SYSTEM, AND SITE UTILITIES.
5. CONSTRUCT PARKING LOT.
6. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE ALL INLET PROTECTION, SILT BARRIERS, AND SEDIMENT THAT HAS BEEN TRAPPED BY THESE DEVICES.
7. CONSULT APPROVED SWPPP FOR CONDITIONS RELATED TO NOTICE OF TERMINATION, IF REQUIRED.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES

STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES AND DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR MORE THAN TWENTY ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

1. BASE COURSE GRAVELS, WHICH MEET THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2, HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

DURING CONSTRUCTION, RUNOFF MUST BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PILING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT BARRIERS. ALL STORM DRAIN INLETS SHALL BE PROVIDED WITH BARRIER FILTERS. STONE RIPRAP SHALL BE PROVIDED AT THE OUTLETS OF DRAINAGE PIPES WHERE EROSION VELOCITIES ARE ENCOUNTERED.

OFF-SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.

INSTALLATION, MAINTENANCE AND INSPECTION OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

THESE ARE THE GENERAL INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO IMPLEMENT THE PLAN.

1. STABILIZATION OF ALL SWALES, DITCHES, AND PONDS IS REQUIRED PRIOR TO DIRECTING FLOW TO THEM.
2. THE SMALLEST PRACTICAL PORTION OF THE SITE WILL BE DENUDED AT ONE TIME. (5 AC MAX)
3. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.10" OR GREATER.
4. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
5. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT BARRIER WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE BARRIER.
6. ALL DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
7. TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.
8. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
9. THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

B. FILTERS / BARRIERS

1. SILT SOCKS
  - A. KNOTTED MESH NETTING MATERIAL SHALL BE DELIVERED TO SITE IN A 5 MI CONTINUOUS, TUBULAR, HDPE 3/8" MATERIAL, FILLED WITH COMPOST CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	TEST	REQUIREMENTS
PH	TMCC 04.11-A	5.0 TO 8.0
PARTICLE SIZE	TMCC 02.02-B	2" SIEVE AND MIN. 60% GREATER THAN THE 8" SIEVE
MOISTURE CONTENT	STND TESTING	< 60%

MATERIAL SHALL BE RELATIVELY FREE OF INERT OR FOREIGN MAN-MADE MATERIALS.  
MATERIAL SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, FREE FROM ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH.
  - B. SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK SHALL BE REMOVED ONCE IT HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE SILT SOCK.
  - C. SILT BARRIER SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAS BEEN PERMANENTLY STABILIZED.

2. SEQUENCE OF INSTALLATION

SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.

3. MAINTENANCE

- A. SILT BARRIERS SHALL BE INSPECTED WEEKLY AND IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
- B. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- C. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) THE HEIGHT OF THE BARRIER.
- D. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFIRM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

C. MULCHING

1. TIMING

IN ORDER FOR MULCH TO BE EFFECTIVE, IT MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO (2) TYPES OF STANDARDS WHICH SHALL BE USED TO ASSURE THIS:

- A. APPLY MULCH PRIOR TO ANY STORM EVENT.

THIS IS APPLICABLE WHEN WORKING WITHIN 100' OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE, TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.

- B. REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD.

THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON AN AREA, WHERE THE LENGTH OF TIME VARIES WITH SITE CONDITIONS. PROFESSIONAL JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

2. GUIDELINES FOR WINTER MULCH APPLICATION

WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH.

3. MAINTENANCE

ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.

D. VEGETATIVE PRACTICE

1. AFTER ROUGH GRADING OF THE SUBGRADE HAS BEEN COMPLETED AND APPROVED, THE SUB-GRADE SURFACE SHALL BE SCARIFIED AND PULVERIZED AND INSTALL A LAYER OF LOAM PROVIDING A ROLLED THICKNESS AS SPECIFIED IN THESE PLANS. ANY DEPRESSIONS WHICH MAY OCCUR DURING ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM, REGRADED AND ROLLED UNTIL THE SURFACE IS TRUE TO THE FINISHED LINES AND GRADES. ALL LOAM NECESSARY TO COMPLETE THE WORK UNDER THIS SECTION SHALL BE SUPPLIED BY THE SITE SUBCONTRACTOR.
2. ALL LARGE STIFF CLODS, LUMPS, BRUSH, ROOTS, DEBRIS, GLASS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL, AS WELL AS STONES OVER 1" IN DIAMETER, SHALL BE REMOVED FROM THE LOAM AND DISPOSED OF OFF SITE. THE LOAM SHALL BE RAKED SMOOTH AND EVEN.
3. THE LOAM SHALL BE PREPARED TO RECEIVE SEED BY REMOVING STONES, FOREIGN OBJECTS AND GRADING TO ELIMINATE WATER POCKETS AND IRREGULARITIES PRIOR TO SPREADING SEED. FINISH GRADING SHALL RESULT IN STRAIGHT UNIFORM GRADES AND SMOOTH, EVEN SURFACES WITHOUT IRREGULARITIES TO LOW POINTS.
4. SHAPE THE AREAS TO THE LINES AND GRADES REQUIRED. THE SITE SUBCONTRACTOR'S ATTENTION IS DIRECTED TO THE SCHEDULING OF LOAMING AND SEEDING OF GRADED AREAS TO PERMIT SUFFICIENT TIME FOR THE STABILIZATION OF THESE AREAS. IT SHALL BE THE SITE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE AREAS DURING THE CONSTRUCTION PERIOD AND REGRADE, LOAM AND RESEED ANY DAMAGED AREAS.
5. ALL AREAS DISTURBED BY CONSTRUCTION WITHIN THE PROPERTY LINES AND NOT COVERED BY STRUCTURES, PAVEMENT, OR MULCH SHALL BE LOAMED AND SEEDED.
6. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
7. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
8. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4 1/2 POUNDS AND 5 1/2 POUNDS PER INCH OF WIDTH.
9. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN IMMEDIATELY BEFORE SEEDING. THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4" AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH.
10. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE. MULCH THAT BLOWS OR WASHES AWAY SHALL BE REPLACED IMMEDIATELY AND ANCHORED USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.
11. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEDED, AND ALL NOXIOUS WEEDS REMOVED.
12. THE SITE SUBCONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDING AREAS UNTIL ACCEPTED, INCLUDING CUTTING, AS SPECIFIED HEREIN AFTER UNDER MAINTENANCE AND PROTECTION.
13. UNLESS OTHERWISE APPROVED, SEEDING SHALL BE DONE DURING THE APPROXIMATE PERIODS OF EARLY SPRING TO SEPTEMBER 30, WHEN SOIL CONDITIONS AND WEATHER ARE SUITABLE FOR SUCH WORK. IN NO CASE SHALL THE WEED CONTENT EXCEED 1 PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. FOR TEMPORARY PLANTINGS AFTER SEPTEMBER 30, TO EARLY SPRING AND FOR TEMPORARY PROTECTION OF DISTURBED AREAS:
  - A. FOLLOW ABOVE SLOPE, LOAM DEPTH AND GRADING REQUIREMENTS.
  - B. FERTILIZER SHALL BE SPREAD AND WORKED INTO THE SURFACE AT A RATE OF 500 POUNDS PER ACRE.MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

WINTER RYE (FALL SEEDING)	2.5 LBS/1,000 SF
OATS (SPRING SEEDING)	2.0 LBS/1,000 SF
MULCH	1.5 TONS/ACRE

E. CATCH BASIN INLET PROTECTION

1. INLET BASKET STRUCTURE

- A. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY PRIOR TO DISTURBING PAVEMENT AND SHALL REMAIN IN PLACE AND MAINTAINED UNTIL PAVEMENT BINDER COURSE IS COMPLETE.
- B. MOLD 6XB, 42 LB. WIRE SUPPORT AROUND INLET FRAME AND EXTEND 6" BEYOND SIDES. SECURE FILTER FABRIC TO WIRE SUPPORT.
- C. THE FILTER FABRIC SHALL BE A GEOTEXTILE FABRIC, POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS:

GRAB STRENGTH: 45 LB. MINIMUM IN ANY PRINCIPAL DIRECTION (ASTM D1682)
MULLEN BURST STRENGTH: MIN. 60PSI (ASTM D774)
- D. THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND A MINIMUM PERMEABILITY OF 120 GPM.
- E. THE INLET PROTECTION SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING.
- F. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.

F. WINTER CONSTRUCTION SEQUENCE

1. ALL PROPOSED POST-DEVELOPMENT LANDSCAPED 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 PLACEMENT 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 EVENT.
2. 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 WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 15TH, INCOMPLETE PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER ALL TRAVEL SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW/ICE AFTER EACH STORM EVENT.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, SILT BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT BARRIERS AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.

WASTE DISPOSAL

1. WASTE MATERIALS  
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
2. HAZARDOUS WASTE  
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
3. SANITARY WASTE  
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION

1. MATERIAL MANAGEMENT PRACTICES  
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:

GOOD HOUSEKEEPING:  
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

  - A. AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB.
  - B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
  - C. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
  - D. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
  - E. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
  - F. WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.HAZARDOUS PRODUCTS:  
THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
  - A. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
  - B. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION.
  - C. SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
2. PRODUCT SPECIFICATION PRACTICES  
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

1. PETROLEUM PRODUCTS:  
ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. FERTILIZERS:  
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
3. PAINTS:  
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
4. CONCRETE TRUCKS:  
CONCRETE TRUCKS WILL DISCHARGE AND WASH OUT SURPLUS CONCRETE OR DRUM WASH WATER IN A CONTAINED AREA DESIGNATED ON SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- C. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- D. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- E. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- F. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL, FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT RECURS. A DESCRIPTION OF THE SPILL, ITS CAUSE, AND THE CLEANUP MEASURES WILL BE INCLUDED.
- G. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

DUST CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL METHODS SHALL INCLUDE, BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ADJUTING AREAS.

APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_

BOARD MEMBER \_\_\_\_\_ AND

BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159

**EROSION CONTROL NOTES**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

APRIL 27, 2021

Seacoast Division

**TFM**  
Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

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CONSTRUCTION SEQUENCE NOTES

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. CUT AND CLEAR TREES WITHIN AREA OF DISTURBANCE UNLESS OTHERWISE NOTED.
3. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
4. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES PRIOR TO ANY EARTH MOVING OPERATION.
5. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING THE SITE).
6. ROUGH GRADE SITE OR PHASED WORK AREA. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 72 HOURS AFTER CONSTRUCTION ACTIVITY CEASES. IF EARTHWORK TEMPORARILY CEASES ON A PORTION OF OR THE ENTIRE SITE, AND WILL NOT RESUME WITHIN 21 DAYS, THE AREA SHALL BE STABILIZED.
7. AN AREA SHALL BE CONSIDERED STABILIZED IF:  
a) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;  
b) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;  
c) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED, OR  
d) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
8. CONSTRUCT CULVERTS, DETENTION BASINS AND TREATMENT SWALES. PLACE HEADWALLS, RIP-RAP AND OTHER DRAINAGE FACILITIES ACCORDING TO PLAN. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS/BASINS PRIOR TO DIRECTING FLOW TO THEM.
9. INSTALL ALL UNDERGROUND UTILITIES.
10. CONSTRUCT BUILDINGS.
11. CONSTRUCT PARKING AND FINISH GRADE SITE ACCORDING TO PLAN. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
12. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES PERIODICALLY AND IMMEDIATELY AFTER STORM EVENTS.
13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
14. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE ALL AREAS ARE STABILIZED WITH A SUITABLE STAND OF GRASS, PAVEMENT OR COMPACTED GRAVELS.
15. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

\* REFER TO THE STORM WATER MANAGEMENT PLAN FOR EROSION CONTROL MEASURES AND SPECIFIC INFORMATION.

GENERAL NOTES

1. PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ACR 3800 RELATIVE TO INVASIVE SPECIES.
  2. ALL IN PAVEMENT MANHOLES SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN.
  3. WHERE DEPTH OF COVER IS LESS THAN 3 FEET CLASS V REINFORCED CONCRETE PIPE SHALL BE USED.
  4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
  5. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
  6. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
  7. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THESE DETAILS SERVE AS A GUIDE ONLY.
  8. REFER TO THE TOWN STANDARD DETAILS, LATEST REVISION, FOR ADDITIONAL INFORMATION AND CRITERIA.
  9. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING FLOW TO THEM.
  10. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
  11. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY.
  12. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
  13. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
  14. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

STOCKPILE NOTES

1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES AND INLETS.
2. PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.
3. STOCKPILES SHOULD BE SURROUNDED BY SEDIMENT BARRIERS, SUCH AS SILT FENCE OR SILT SOCK, TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.
4. IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
5. PLACE BAGGED MATERIALS ON PALLETS AND UNDER COVER.
6. INACTIVE STOCKPILES
  - a. INACTIVE SOIL STOCKPILES SHOULD BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS AT ALL TIMES.
  - b. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS AND OTHER SIMILAR MATERIALS SHOULD BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHOULD ALSO BE COVERED.
7. ACTIVE STOCKPILES
  - a. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
  - b. WHEN A STORM EVENT IS PREDICTED, STOCKPILES SHOULD BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

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WINTER CONSTRUCTION

1. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
2. AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.
3. TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.
4. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THE SAME DAY.
5. IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDED AND MULCHED.
6. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
7. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.

EROSION CONTROL NOTES

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:

1. INSTALLATION OF SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A VEGETATIVE COVER OF GREATER THAN 85%. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
4. TEMPORARY WATER DIVERSIONS MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
5. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
6. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM. ACCEPTABLE SEED MIXES ARE AS FOLLOWS:

PARK SEED MIX (NHDOT TYPE 44) MIN. 135 LBS/ACRE

- 33% CREEPING RED FESCUE (MIN. 45 LBS/ACRE)
- 42% PERENNIAL RYEGRASS (MIN. 55 LBS/ACRE)
- 21% KENTUCKY BLUEGRASS (MIN. 30 LBS/ACRE)
- 4% REDTOP (MIN. 5 LBS/ACRE)

TEMPORARY LAWN MIX (MIN. 47 LBS/ACRE)

100% ANNUAL RYE

SLOPE SEED (NHDOT TYPE 45) MIN. 3:1 OR GREATER SLOPES (MIN. 105 LBS/ACRE)

- 36% CREEPING RED FESCUE (MIN. 40 LBS/ACRE)
- 32% PERENNIAL RYEGRASS (MIN. 35 LBS/ACRE)
- 5% REDTOP (MIN. 5 LBS/ACRE)
- 5% ALSIKE CLOVER (MIN. 5 LBS/ACRE)
- 5% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)
- 3% LANCE-LEAF CORYDOSSIS (MIN. 3 LBS/ACRE)
- 3% OYEYE DANDY (MIN. 3 LBS/ACRE)
- 3% BUTTERFLY WEED (MIN. 3 LBS/ACRE)
- 3% BLACKEYED SUSAN (MIN. 3 LBS/ACRE)
- 3% WILD LUPINE (MIN. 3 LBS/ACRE)

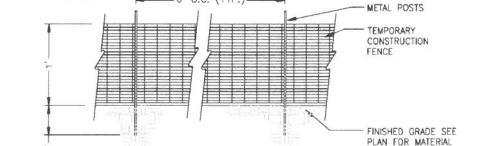
SLOPE SEED (NHDOT TYPE 44) MIX 3:1 OR GREATER SLOPES (MIN. 90 LBS/ACRE)

- 44% CREEPING RED FESCUE (MIN. 40 LBS/ACRE)
- 36% PERENNIAL RYEGRASS (MIN. 35 LBS/ACRE)
- 5% REDTOP (MIN. 5 LBS/ACRE)
- 5% ALSIKE CLOVER (MIN. 5 LBS/ACRE)
- 5% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)

- a. PLACING LOAM ON SITE
- a. ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM.
- b. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED.
- c. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.
- b. SEED BED PREPARATION  
AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.
7. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
8. HAY MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE Laid IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
9. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
10. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.
11. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

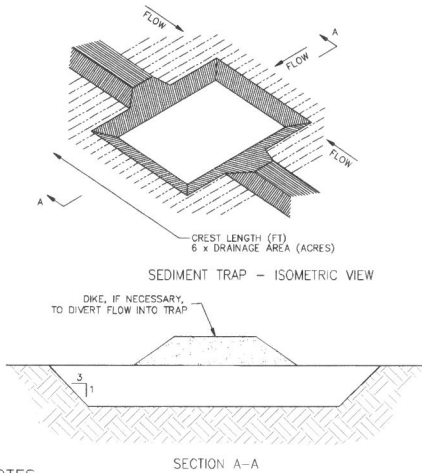
NOTE

1. CONSTRUCTION FENCE TO BE "VISUAL BARRIER FENCE" AS MANUFACTURED BY DIXON CHEMICAL COMPANY ATLANTA, GA. "CONTROL SAFETY FENCE" AS MANUFACTURED BY MIRAFL, CHARLOTTE, N.C. OR APPROVED EQUAL.



TEMPORARY CONSTRUCTION FENCE

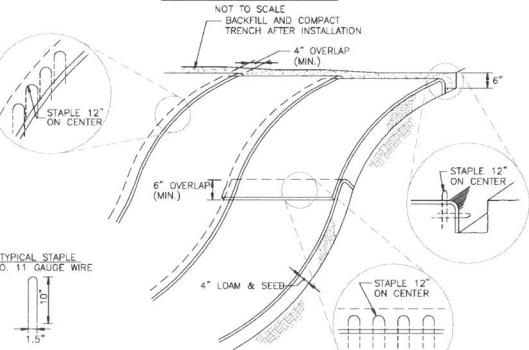
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NOTES

1. SEDIMENT TRAP TO BE USED AS NECESSARY. IF IT IS DETERMINED THAT CONSTRUCTION OF A SEDIMENT TRAP IS WARRANTED, CONSULT WITH ENGINEER TO DETERMINE APPROPRIATE NUMBER AND DIMENSIONS.
2. 3,600 CF OF BASIN STORAGE IS REQUIRED FOR EVERY ACRE OF CONTRIBUTING DRAINAGE AREA.

SEDIMENT TRAP



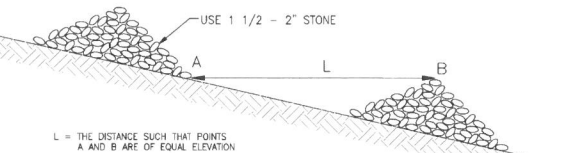
NOTES

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.
5. BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.

BLANKET SLOPE PROTECTION

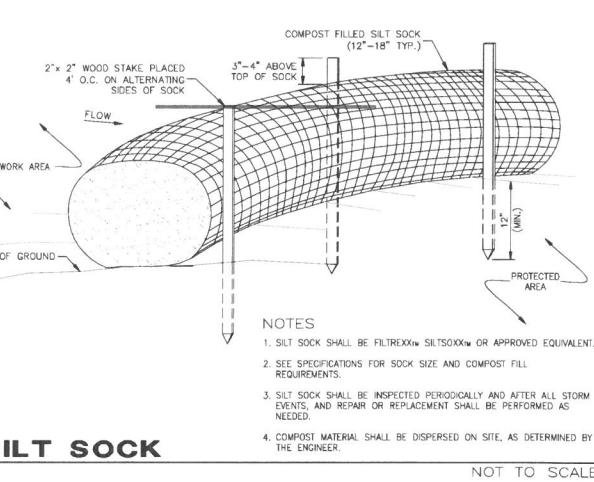
FOR EROSION CONTROL

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STONE CHECK DAM

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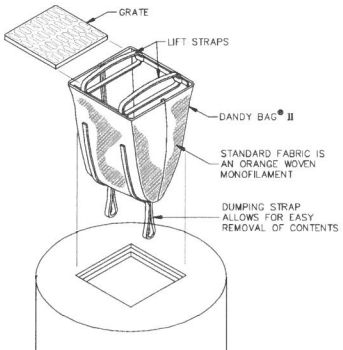


NOTES

1. SILT SOCK SHALL BE FILTERKXw SILTSOCKw OR APPROVED EQUIVALENT.
2. SEE SPECIFICATIONS FOR SOCK SIZE AND COMPOST FILL REQUIREMENTS.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.

SILT SOCK

NOT TO SCALE



INSTALLATION

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLow IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM MOINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY BAG. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION.

DANDY BAG® II

NOT TO SCALE

APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159  
**DETAILS**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

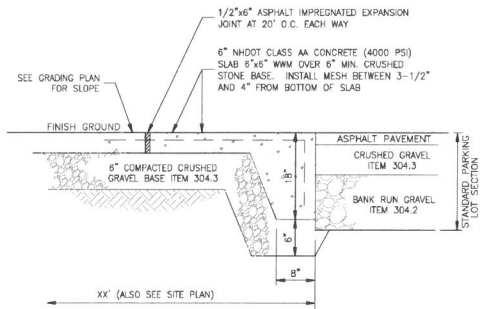
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Seacoast Division

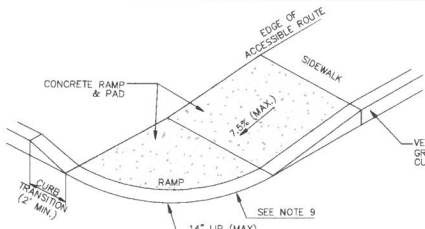
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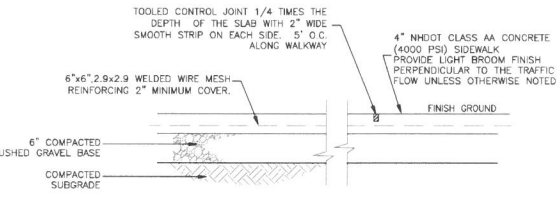


**CONCRETE LOADING APRON**  
NOT TO SCALE

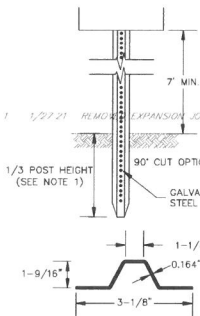


- NOTES**
1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN.).
  2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMP SHALL BE 5%.
  3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMP SHALL BE 7.5%.
  4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE. (I.E. HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.)
  5. CURB TREATMENT VARIES; SEE PLANS FOR CURB TYPE.
  6. BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.
  7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
  8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' X 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
  9. ELIMINATE ALL CURBING AT RAMP (OTHER THAN VERTICAL CURBING, WHICH SHALL BE SET FLUSH) WHERE IT ABUTS ROADWAY.

**ACCESSIBLE CURB RAMP**  
TYPE "B"  
NOT TO SCALE

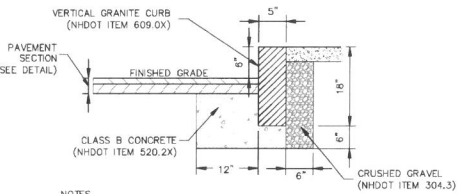


**CONCRETE SIDEWALK**  
NOT TO SCALE

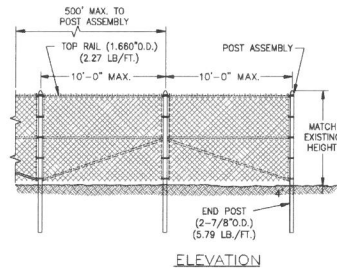


- LENGTH:** AS REQUIRED  
**WEIGHT PER LINEAR FOOT:** 2.50 LBS (MIN)  
**HOLES:** 3/8" DIAMETER, 1" C-C FULL LENGTH  
**STEEL:** SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070 - 1080)  
**FINISH:** SHALL BE PAINTED WITH 2 COATS OF AN APPROVED MEDIUM GREEN BAKED-ON OR AIR-DRYED PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.
- NOTE:**
1. WHERE LEDGE APPLICATION EXISTS, DRILL & GROUT TO A MINIMUM OF 2'.
  2. ALL SIGNAGE SHALL FOLLOW THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS AND NHDOT STANDARDS.
  3. SIGN, HARDWARE, AND INSTALLATION SHALL CONFORM TO THE LATEST NHDOT STANDARD SPECIFICATIONS.

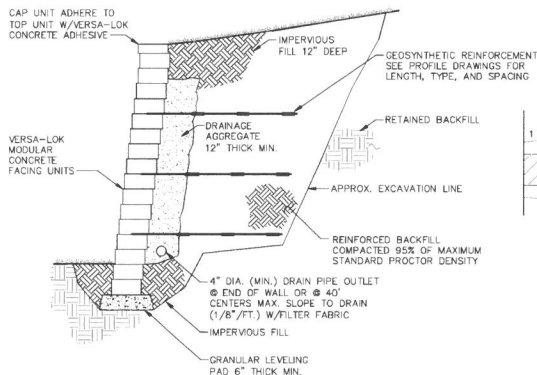
**SIGN POST**  
NOT TO SCALE



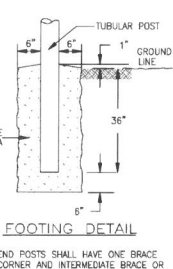
**VERTICAL GRANITE CURB**  
NOT TO SCALE



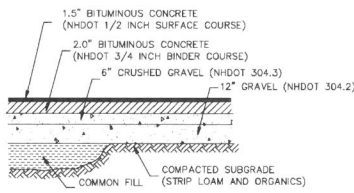
**CHAIN LINK FENCE**  
NOT TO SCALE



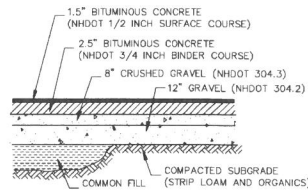
**VERSA-LOK DETAIL**  
NOT TO SCALE



**FOOTINGS DETAIL**  
NOT TO SCALE

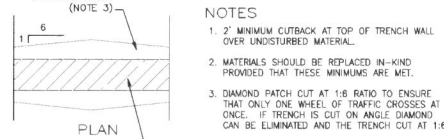


**STANDARD DUTY PAVEMENT**

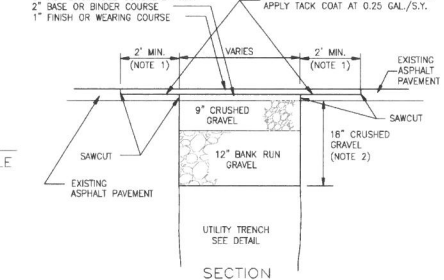


**HEAVY DUTY PAVEMENT**

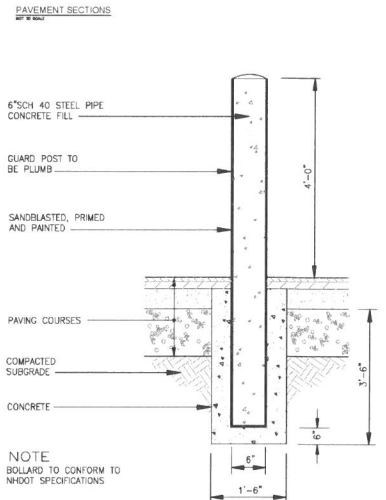
- NOTES**
1. SEE GRADING & EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
  2. PROVIDE CLEAN BUTT TO EXISTING PAVEMENT- USE TACK COAT. A TACK COAT SHALL ALSO BE PLACED BETWEEN GRAVEL COURSE AND SUCCESSIVE LAYERS OF BITUMINOUS CONCRETE. SPECIFICALLY, A TACK COAT SHALL BE PLACED ATOP THE BINDER COURSE, PAVEMENT PRIOR TO PLACING THE WEARING COURSE.
  3. REMOVE ALL LOAM AND/OR YIELDING MATERIAL BELOW PAVEMENT.
  4. BITUMINOUS MATERIALS SHALL CONFORM TO NHDOT SPECIFICATION SECTION 401.
  5. BITUMINOUS CONCRETE SHALL BE COMPACTED TO AT LEAST 92.5% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY ASTM D2041 OR AASHTO T209. PLACEMENT TEMPERATURES OF BITUMINOUS CONCRETE MIXES, IN GENERAL, RANGE BETWEEN 270 AND 310 DEGREES FAHRENHEIT.
  6. PAVEMENT BASE COURSE AGGREGATE SHALL CONFORM TO NHDOT SPECIFICATION SECTION 304, ITEM 304.3 AND COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
  7. PAVEMENT SUBBASE COURSE AGGREGATE AND AGGREGATE FOR SUBGRADE REPAIR AREAS SHALL BE SUITABLE FOR USE AS STRUCTURAL FILL AND BE PROOF ROLLED AND COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY.
  8. THE EXPOSED SOIL SUBGRADE SHOULD BE PROOF ROLLED PRIOR TO THE PLACEMENT OF SUBBASE GRAVEL, AND SOFT AREAS SHOULD BE REPAIRED AND REPLACED.
  9. ALL PARKING SPACES SHALL BE STANDARD DUTY. ALL OTHER LOCATIONS SHALL BE HEAVY DUTY.



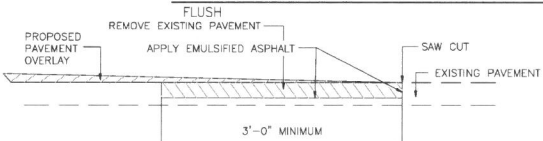
**PAVEMENT TRENCH PATCH**  
NOT TO SCALE



**PAVEMENT SAWCUT**  
NOT TO SCALE



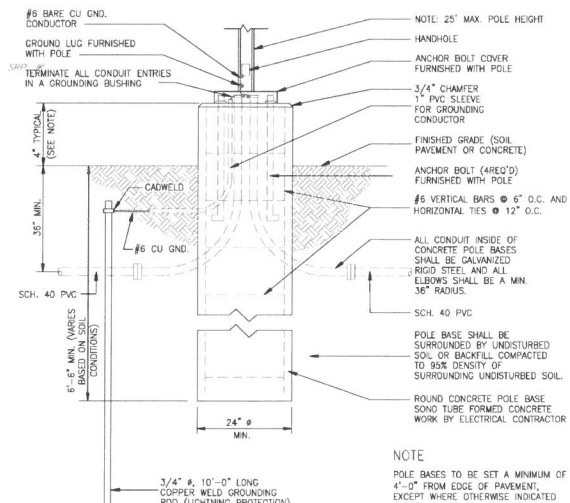
**BOLLARD**  
NOT TO SCALE



**PAVEMENT TRENCH PATCH**  
NOT TO SCALE



**PAVEMENT SAWCUT**  
NOT TO SCALE



**LIGHT POLE BASE**  
NOT TO SCALE

**APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD**

ON \_\_\_\_\_

BOARD MEMBER \_\_\_\_\_ AND \_\_\_\_\_

BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159

**DETAILS**

**10 FARMINGTON ROAD**

**ROCHESTER, NEW HAMPSHIRE**

**COUNTY OF STRAFFORD**

PREPARED FOR

**10 FARMINGTON ROAD, LLC**

**APRIL 27, 2021**

Seacoast Division

**TFM**

Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

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47424.00

DR DKE FB  
CK CRR CADFILE 47424-00 - DETAILS

C-11

CONSTRUCTION SPECIFICATIONS

PREPARE BEDDING:  
BACKFILL MATERIAL AROUND THE END SECTION MAY BE THE SAME AS THE MATERIAL AROUND THE PIPE. PLACE A FEW INCHES OF BACKFILL MATERIAL IN THE TRENCH OR DITCH WHERE THE END SECTION WILL BE PLACED. COMPACT AND CONTOUR THIS BEDDING MATERIAL TO GENERALLY MATCH THE END SECTION. EXCAVATE AN AREA IN THE BEDDING WHERE TOE TROUGH WILL SEAT SO THAT THE END SECTION WILL BE LEVEL WITH THE BOTTOM OF THE TRENCH OR DITCH IN THE FINISHED INSTALLATION.

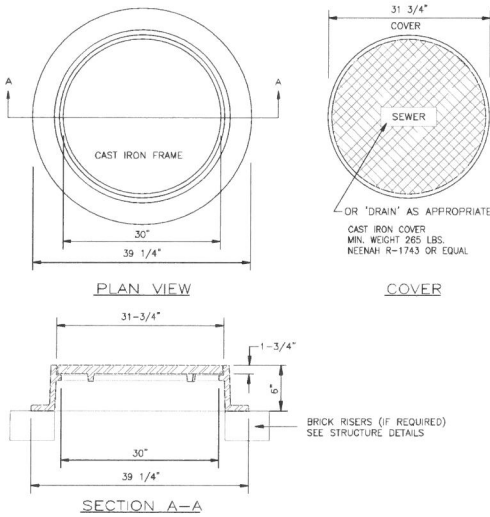
PLACE END SECTION OF PIPE:  
OPEN THE END SECTION COLLAR AND SEAT IT OVER THE TWO PIPE CONNECTIONS. ONCE THE END SECTION IS POSITIONED, CHECK TO MAKE SURE THAT THE INVERT OF THE END SECTION MATCHES THE INVERT OF THE PIPE AND THAT THE END SECTION IS LEVEL WITH THE TRENCH OR DITCH BOTTOM.

SECURE THE END SECTION:  
SLIP THE STAINLESS STEEL ROD THROUGH THE PRE-DRILLED HOLES AT THE TOP OF THE COLLAR. THE ROD SHOULD BE BETWEEN THE CROWNS OF THE TWO PIPE CONNECTIONS. PLACE A WASHER ON EITHER END OF THE ROD. PLACE A NUT ON EITHER END OF THE ROD AND TIGHTEN WITH A WRENCH.

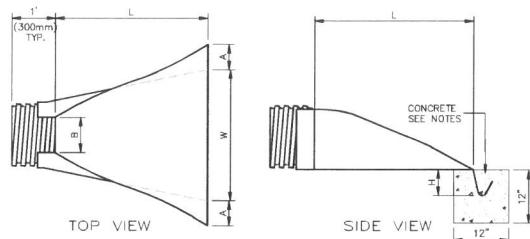
SECURE THE TOE TROUGH:  
TO PREVENT WASHOUTS FROM HIGH VELOCITY FLOW, IT IS RECOMMENDED THAT THE TROUGH BE SECURED WITH CONCRETE. POUR CONCRETE IN THE TROUGH UP TO THE LEVEL OF THE TRENCH OR DITCH BOTTOM AND ALONG THE ENTIRE LENGTH OF THE TROUGH.

FINISH BACKFILL:  
SHOVEL BACKFILL AROUND THE END SECTION IN 6 TO 9 INCH LAYERS EQUALLY ON BOTH SIDES, KNIFING IT TO ELIMINATE VOIDS. TAMP WITH A SMALL-FACED COMPACTOR OR OTHER EQUIPMENT SUITABLE FOR SMALL AREAS. CONTINUE PLACING, KNIFING, AND COMPACTING BACKFILL LAYERS TO THE TOP OF THE END SECTION TO SEAT IT WELL INTO THE BACKFILL.

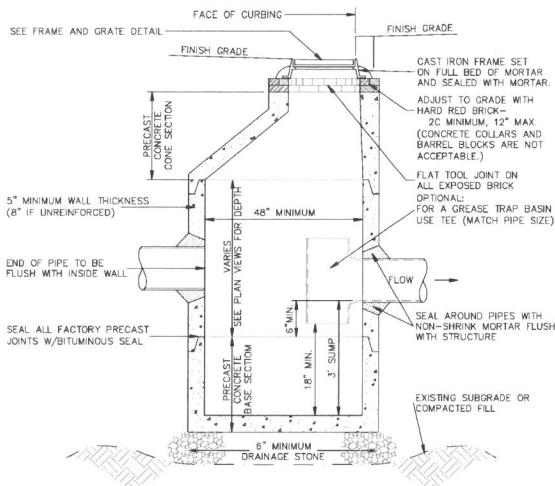
FLARED END SECTION  
HIGH DENSITY POLYETHYLENE (HDPE)



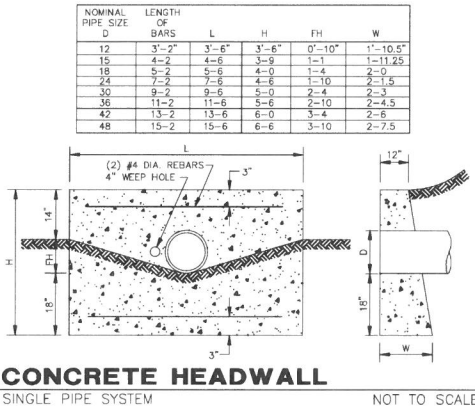
MANHOLE FRAME & COVER  
HEAVY DUTY



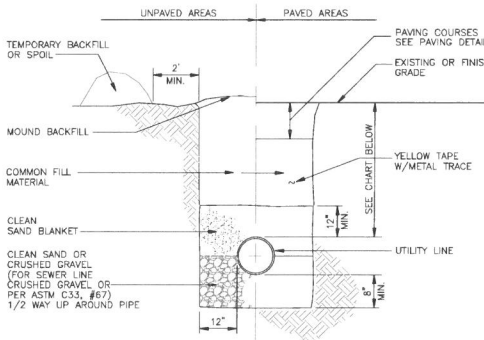
		DIMENSIONS, INCHES (mm)					
PIPE DIAMETER	PART NO.	A, ±1 (25)	B MAX	H, ±1 (25)	L, ±1/2 (13)	W, ±2 (50)	
12", 15" (300,375)	1210 NP	6.5 (165)	10 (254)	6.5 (165)	25 (635)	29 (736)	
18" (450)	1810 NP	7.5 (190)	15 (380)	6.5 (168)	32 (812)	35 (890)	
24" (600)	2410 NP	7.5 (190)	18 (450)	6.5 (165)	36 (900)	45 (1140)	
30" (750)	3010 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)	
36" (900)	3610 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)	



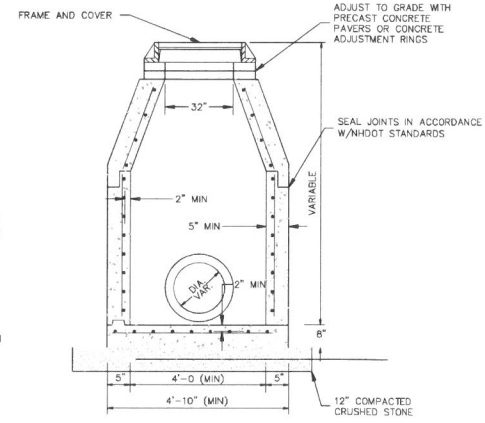
CATCH BASIN  
ECCENTRIC CONE (FOR USE IN CURBED AREAS)



CONCRETE HEADWALL  
SINGLE PIPE SYSTEM

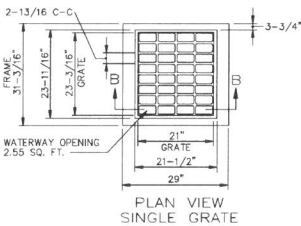


TRENCH  
FOR SEWER, WATER AND DRAIN LINES

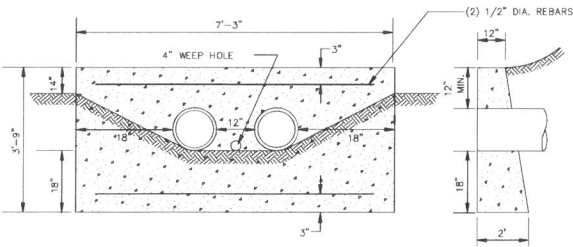


NOTES  
1. MANHOLE FRAME & COVER SHALL BE PAVEX CLASS D400, HINGED, OR APPROVED EQUAL BY THE CITY ENGINEER.  
2. MANHOLE TO BE STAMPED TO SAY "STORM".  
3. COVERS AND FRAMES TO BE COATED BLACK.  
4. MANHOLES SHALL MEET MHDOT SPECIFICATIONS.  
5. ALL COMPONENTS SHALL BE DESIGNED FOR HS-20 LOADING.  
6. REINFORCING SHALL CONFORM TO ASTM 185 OR ASTM 1497 & ASTM A615, GRADE 60.  
7. ALL CONCRETE SHALL BE MHDOT CLASS A.  
8. LARGER DIAMETER STRUCTURES SHALL BE USED AS REQUIRED DUE TO NUMBER, ANGLE OR SIZE OF PIPES AT THE STRUCTURE.

DRAIN MANHOLE  
NOT TO SCALE



FRAME AND GRATE (NHDOT TYPE B ALT 1)  
NOT TO SCALE



CONCRETE HEADWALL  
DOUBLE PIPE SYSTEM

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APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD  
ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

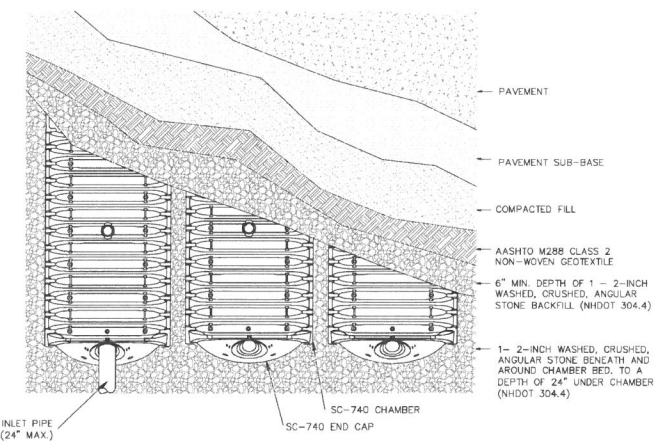
TAX MAP 221, LOTS 158 & 159  
**DETAILS**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
PREPARED FOR  
**10 FARMINGTON ROAD, LLC**  
**APRIL 27, 2021**

Seacoast Division  
**TFM**  
Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
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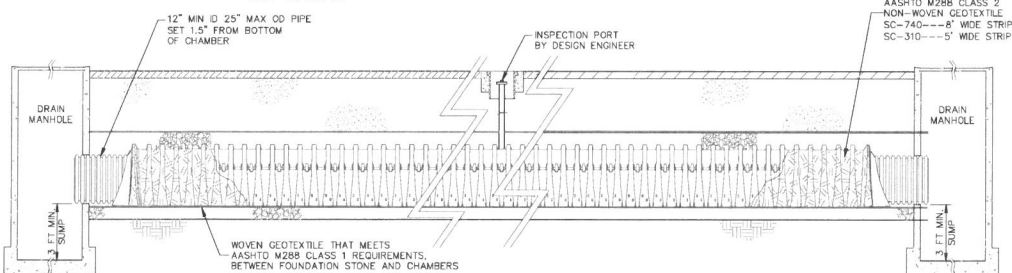
1.0 GENERAL  
STORMTECH CHAMBERS ARE DESIGNED TO 1.1  
CONTROL STORMWATER RUNOFF. AS A  
SUBSURFACE RETENTION SYSTEM, STORMTECH  
CHAMBERS RETAIN AND ALLOW EFFECTIVE  
INFILTRATION OF WATER INTO THE SOIL. AS A  
SUBSURFACE DETENTION SYSTEM, STORMTECH  
CHAMBERS DETAIN AND ALLOW FOR THE METERED  
FLOW OF WATER TO AN OUTFALL.

- 2.0 CHAMBER PARAMETERS.
- 2.1 THE CHAMBER SHALL BE INJECTION MOLDED OF POLYPROPYLENE WITH 10% CARBON FIBER. IT SHALL BE RESISTANT TO ENVIRONMENTAL STRESS CRACKING (ESCR), AND TO MAINTAIN ADEQUATE STIFFNESS THROUGH HIGHER TEMPERATURES EXPERIENCED DURING INSTALLATION AND SERVICE.
- 2.2 THE NOMINAL CHAMBER DIMENSIONS OF THE STORMWATER SC-740 SHALL BE 30.0 INCHES TALL, 51.0 INCHES WIDE AND 90.7 INCHES LONG.
- 2.3 THE CHAMBER SHALL HAVE A CONTINUOUSLY CURVED SECTION PROFILE.
- 2.4 THE CHAMBER SHALL BE OPEN-BOTTOMED.
- 2.5 THE CHAMBER SHALL INCORPORATE AN OVERLAPPING CORRUGATION JOINT SYSTEM TO ALLOW CHAMBER ROWS OF ALMOST ANY LENGTH TO BE CREATED. THE CORRUGATION JOINT SYSTEM SHALL BE EFFECTIVE WHILE ALLOWING A CHAMBER TO BE TRIMMED TO SHORTEN ITS OVERLAP LENGTH.
- 2.6 THE NOMINAL STORAGE VOLUME OF A JOINED STORMWATER SC-740 CHAMBER SHALL BE 74.9 CUBIC FEET PER CHAMBER WHEN INSTALLED PER STORMWATER'S TYPICAL DETAILS (INCLUDES THE TYPICAL CRUSHED GRANULAR STONE WITH AN 8% POROSITY). THIS EQUATES TO ASSUMED 40 CUBIC FEET OF STORAGE/SQUARE FOOT OF BED.
- 2.7 THE CHAMBER SHALL HAVE FORTY-EIGHT ORIFICES PENETRATING THE SIDEWALLS TO ALLOW FOR FLOW DURING AND AFTER RAINFALL.
- 2.8 THE CHAMBER SHALL HAVE TWO ORIFICES NEAR ITS TOP TO ALLOW FOR EQUALIZATION OF AIR PRESSURE BETWEEN ITS INTERIOR AND EXTERIOR.
- 2.9 THE CHAMBER SHALL HAVE BOTH OF ITS ENDS 2.9' OPEN TO ALLOW FOR UNIMPEDED HYDRAULIC FLOW AND VISUAL INSPECTIONS DOWN A ROW'S ENTIRE LENGTH.

- 2.10 THE CHAMBER SHALL HAVE 14 CORRUGATIONS.
- 2.11 THE CHAMBER SHALL HAVE A CIRCULAR, INDENTED FLAT SURFACE ON THE TOP OF THE CHAMBER FOR AN OPTIONAL 4-INCH INSPECTION PORT FOR CLEAN-OUT.
- 2.12 THE CHAMBER SHALL BE ANALYZED AND DESIGNED USING AASHTO METHODS FOR THERMOPLASTIC CULVERTS CONTAINED IN THE LRFD BRIDGE DESIGN SPECIFICATIONS, 2008 EDITION, INCLUDING INTERIM SPECIFICATIONS THROUGH 2011. DESIGN LIVE LOAD SHALL BE THE 2008 LRFD BRIDGE DESIGN LIVE LOAD. DESIGNER SHALL CONSIDER EARTH AND LOADS AS APPROPRIATE FOR THE MINIMUM TO MAXIMUM SPECIFIED DEPTH OF FILL.
- 2.13 THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.
- 3.0 END CAP PARAMETERS
- 3.1 THE END CAP SHALL BE INJECTION MOLDED OF POLYPROPYLENE RESIN TO BE INHERENTLY ADHESIVE TO ENVIRONMENT, RESIST CRACKING, AND TO MAINTAIN ADEQUATE STIFFNESS THROUGH HIGH TEMPERATURES EXPERIENCED DURING INSTALLATION AND REMOVAL.
- 3.2 THE END CAP SHALL BE DESIGNED TO FIT INTO ANY CORRUGATION OF A CHAMBER, WHICH ALLOWS: CAPPING A CHAMBER THAT HAS ITS LENGTH TRIMMED; AND PROVIDING A COVER TO STORAGE BASINS OF VARIOUS LENGTHS.
- 3.3 THE END CAP SHALL HAVE: SAW GUIDES TO ALLOW EASY CUTTING FOR VARIOUS DIAMETERS OF PIPE AND USER TO CUT TO ANY SIZE OF SYSTEM.
- 3.4 THE END CAP SHALL HAVE EXCESS STRUCTURAL ADEQUACIES TO ALLOW CUTTING AN OFFICE OF ANY SIZE AT ANY INVERT ELEVATION.
- 3.5 THE PRIMARY FACE OF AN END CAP SHALL BE CURVED OUTWARD TO RESIST HORIZONTAL LOADS GENERATED NEAR BY FLOW OF THE SYSTEM.
- 3.6 THE END CAP SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.



NOT TO SCALE



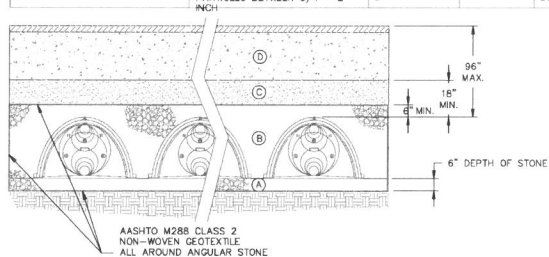
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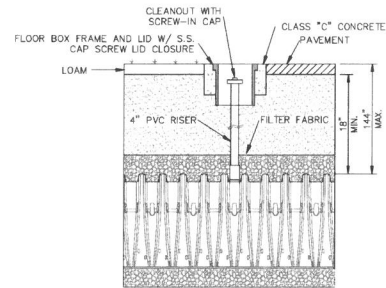


## ACCEPTABLE FILL MATERIALS STORMTECH SC-740 CHAMBER SYSTEM

MATERIAL LOCATION	DESCRIPTION	ASHTO M43 DESIGNATION	ASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS, CHECK FOR FILL TO BE PAVED SUBGRADE	N/A	N/A	PREPARE PER ENGINEER'S PLANS, PAVED INSTALLATIONS MAY HAVE STRINGED MATERIAL AND PREPARATION REQUIREMENTS
② FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (24" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOILS/AGGREGATES, MAXIMUM MIXTURES, <3% FINES.	3, 357, 4, 467, 5, 56, 57, 68, 69, 7, 78, 8, 89, 9, 94	A-1 A-2 A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY, ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LB DYNAMIC FORCE NOT TO EXCEED 20,000 LB
③ EMBEDMENT STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	DOUBLE WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 - 2	3, 357, 4, 467, 5, 56, 57	N/A	NO COMPACTION REQUIRED
④ FOUNDATION STONE BELOW CHAMBERS	DOUBLE WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 - 2	3, 357, 4, 467, 5, 56, 57	N/A	FLATE COMPACT OR ROLL TO ACHIEVE 95% STANDARD PROCTOR DENSITY

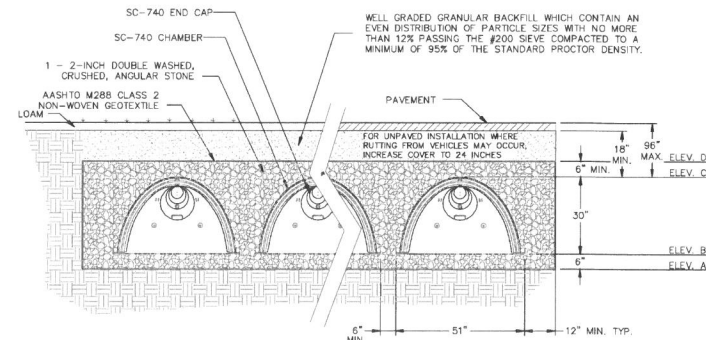
## NOTES

1. THE INSTALLER SHALL NOT ALLOW ANY VEHICULAR OR CONSTRUCTION EQUIPMENT TRAVEL TO OCCUR ACROSS THE PROPOSED RECHARGE BED AREA AT ANY TIME, EXCEPT DURING EXCAVATION OF TOPSOIL, SUBSOIL AND OTHER MATERIALS NOT SUITABLE FOR BED BOTTOM CONDITIONS.
2. CAUTION SHOULD BE EXERCISED DURING SITE PREPARATION TO AVOID COMPACTION OF THE INFILTRATIVE SURFACE.



**INSPECTION PORT DETAIL**  
NOT TO SCALE

	STORMTECH CHAMBER SYSTEM
ELEV. D	266.55
ELEV. C	266.05
ELEV. OUTLET	263.65
ELEV. INLET(S)	263.65
ELEV. B	263.55
ELEV. A	263.05



NOT TO SCALE

THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF THE PROPOSED STORMWATER COLLECTION SYSTEM INCLUDING ROUTINE INSPECTION, CLEANING AND MAINTENANCE OF MANHOLES, DEEP SUMP HOODED CATCH BASINS, CLEAN OUTS, UNDERGROUND DETENTION SYSTEMS AND REGULAR STREET SWEEPING.

THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF THE PROPOSED STORMWATER COLLECTION SYSTEM INCLUDING ROUTINE INSPECTION, CLEANING AND MAINTENANCE OF MANHOLES, DEEP SUMP HOODED CATCH BASINS, CLEAN OUTS, UNDERGROUND DETENTION SYSTEMS AND REGULAR STREET SWEEPING.

### SCHEDULE FOR INSPECTION AND MAINTENANCE AFTER CONSTRUCTION

- STREET SWEEPING EFFORTS SHALL BE CONDUCTED AT LEAST ONCE A MONTH OUTSIDE OF WINTER MONTHS.
- SAND SWEEPED FROM THE ROADWAYS AND PARKING LOTS WILL BE REMOVED TO AN APPROVED OFF-SITE LOCATION

## DEEP SUMP CATCH BASINS &amp; LEACHING CATCH BASINS

- INLETS SHOULD BE CLEANED ANNUALLY AND INSPECTED SEMI-ANNUALLY.
- ALL SEDIMENTS, FLOATABLES, AND HYDROCARBONS SHOULD BE PROPERLY HANDLED AND DISPOSED OF, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

UNDERGROUND DETENTION SYSTEMS (STORMTECH ISOLATOR SC-740 CHAMBER OR EQUAL)

- ISOLATOR ROWS AND PIPE HEADERS SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF THE SITE'S CONSTRUCTION. THE NORMAL INSPECTION SCHEDULE AFTER CONSTRUCTION FOR ISOLATOR ROWS IS SEMI ANNUAL UNTIL AN UNDERSTANDING OF THE SITE'S CHARACTERISTICS IS DEVELOPED. PIPE HEADERS SHOULD BE INSPECTED QUARTERLY AFTER CONSTRUCTION.

- INSPECTION OF THE ISOLATOR ROW SHALL INVOLVE A VISUAL CHECK USING EITHER THE INSPECTION PORTS OR AN ACCESS MANHOLE.
- IF UPON VISUAL INSPECTION OF THE ISOLATOR ROW, IT IS FOUND THAT SEDIMENT HAS ACCUMULATED TO AN AVERAGE DEPTH EXCEEDING 3 INCHES, CLEANOUT IS REQUIRED.

- CLEANOUT OF SEDIMENT WITHIN THE PIPE HEADER IS REQUIRED WHEN THE SEDIMENT VOLUME HAS REDUCED THE STORAGE AREA BY 25% OR THE DEPTH OF SEDIMENT HAS REACHED APPROXIMATELY 25% OF THE DIAMETER OF THE STRUCTURE.

- CLEANOUT OF THE ACCUMULATED MATERIAL IN THE PIPE HEADER SHOULD BE ACCOMPLISHED BY VACUUM PUMPING. CLEANOUT SHOULD BE PERFORMED DURING DRY WEATHER AND CARE SHOULD BE TAKEN TO AVOID FLUSHING SEDIMENTS OUT THROUGH THE OUTLET PIPES AND INTO THE CHAMBER ROWS.

A SITE MAINTENANCE LOG WILL BE KEPT. THIS LOG WILL RECORD THE DATES WHEN MAINTENANCE TASKS WERE COMPLETED, THE PERSON WHO COMPLETED THE TASK, AND ANY OBSERVATIONS OF MALFUNCTIONS IN COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL REPRESENTATIVE OR VISIT [WWW.STORMTECH.COM](http://WWW.STORMTECH.COM).

**APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD**

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221 LOTS 158 &amp; 159

**DETAILS**  
10 FARMINGTON ROAD  
ROCHESTER, NEW HAMPSHIRE  
COUNTY OF STRAFFORD  
PREPARED FOR  
10 FARMINGTON ROAD, LLC

APRIL 27, 2021

Seacoast Division

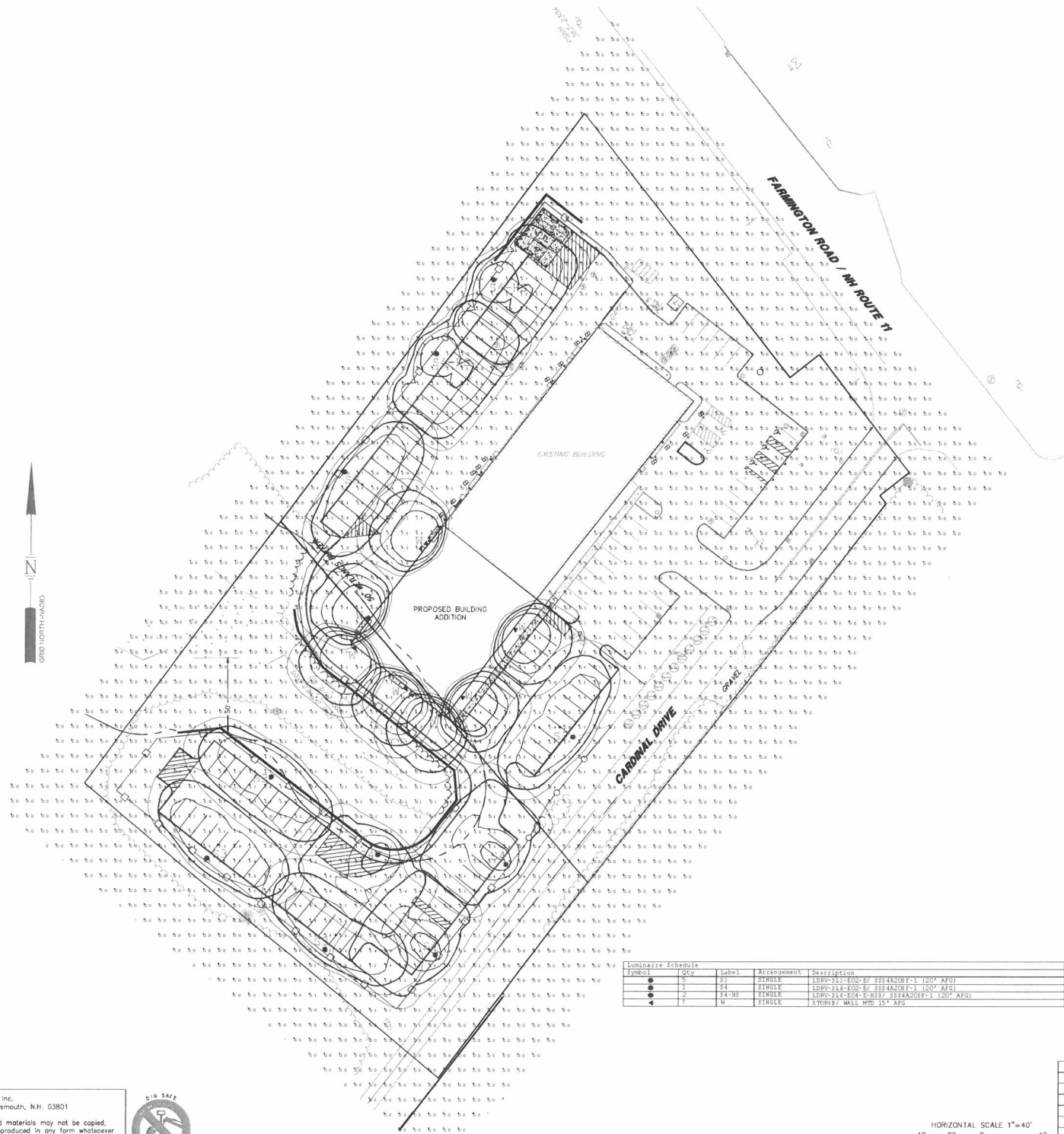
**TFM**

170 Commerce Way, Suite 102  
Portsmouth, NH 03801  
Phone (603) 431-2222  
Fax (603) 431-0910  
[www.tfmoran.com](http://www.tfmoran.com)

F	47424.00	DR	OKE	FB	-	C-13
		CK	CRR	CADFILE	47424-00 - DETAILS	

Apr 22, 2021 - 5:15pm  
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Luminaires Schedule				
Symbol	Qty	Label	Arrangement	Description
1	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
2	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
3	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
4	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
5	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
6	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
7	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
8	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
9	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)
10	1	100	100	100W-314-E02-E/ 334K208F-1 (20° AF8)

HORIZONTAL SCALE 1"=40'  
40 20 0 40



FIXTURE "S"



FIXTURE "W"

APPROVED BY THE CITY OF ROCHESTER PLANNING BOARD

ON \_\_\_\_\_  
BOARD MEMBER \_\_\_\_\_ AND  
BOARD MEMBER \_\_\_\_\_

TAX MAP 221, LOTS 158 & 159

**LIGHTING PLAN**  
**10 FARMINGTON ROAD**  
**ROCHESTER, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**

PREPARED FOR  
**10 FARMINGTON ROAD, LLC**

1"=80' (11"X17")  
SCALE: 1"=40' (22"X34')

APRIL 27, 2021

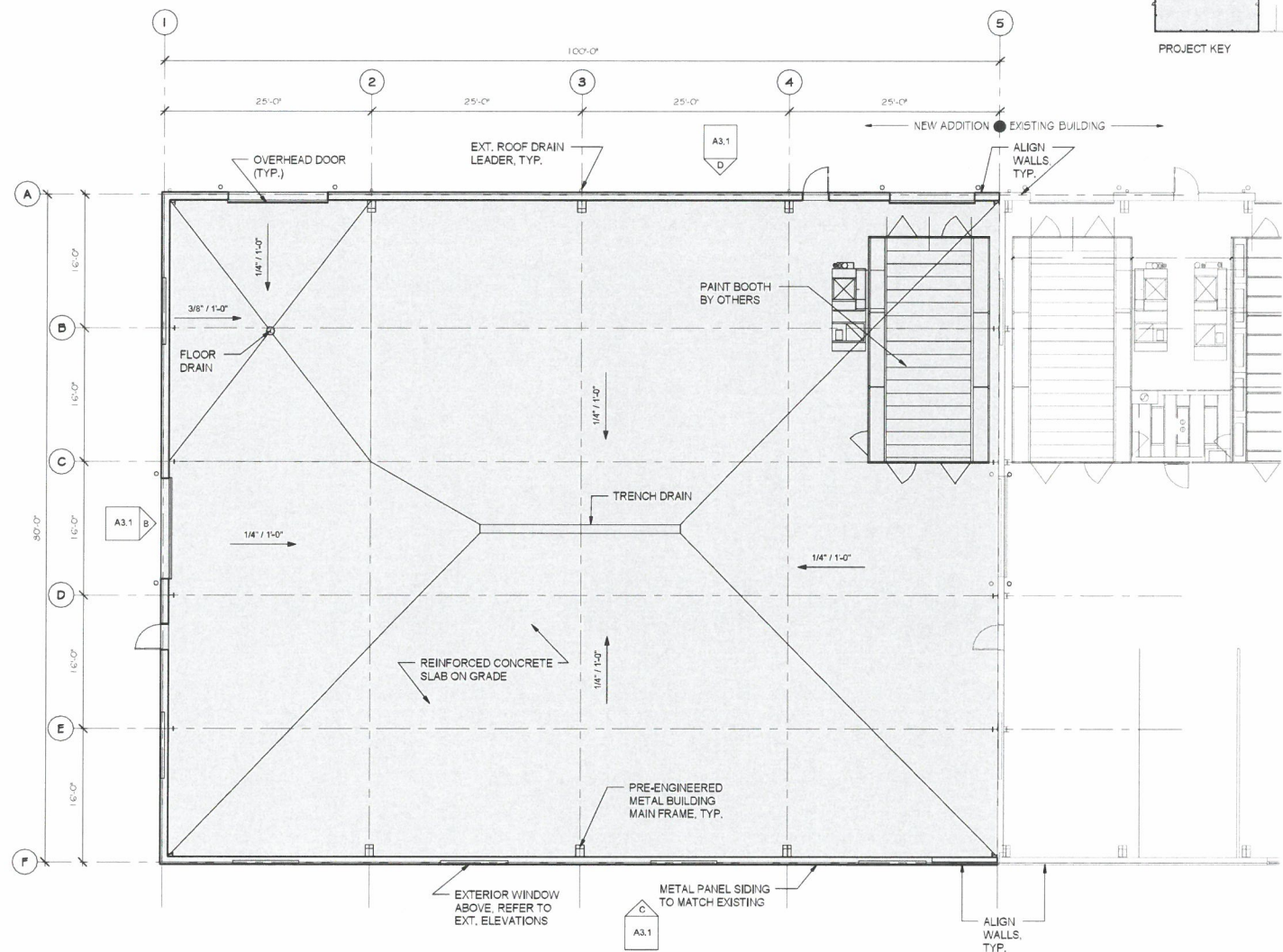
Seacoast Division

**TFM**  
Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

170 Commerce Way, Suite 102  
Portsmouth, NH 03801  
Phone (603) 431-2222  
Fax (603) 431-0810  
www.tfmoran.com

47424.00 DR DKE FB  
CK CRR CADFILE 47424-00 - LIGHTING C-14

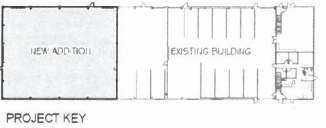
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1 NEW 1ST FLOOR PLAN  
1/8" = 1'-0"



N.F.C.  
4/23/2021 11:44:50 AM



**TW**  
DESIGNS  
254 DRAKE HILL RD, STRAFFORD, NH  
P: 603.664.2161 | F: 603.664.9508  
DESIGN | BUILD Architectural Document Set -  
Prepared For Exclusive Use By  
**WHITCHER**  
BUILDERS  
Professional Seal: JQH, M., No. 04015, State of New Hampshire  
NOT FOR CONSTRUCTION  
APRIL 23, 2021

Project Info  
**Key Collision of Rochester**  
10 Farmington Road Rochester, NH  
Sheet Status:  
Issued For: N.F.C.  
Orig. Issue Date: preliminary progress  
JOB NO: 21001  
DRAWN BY: MLN  
CHECKED BY: JMT  
SCALE: As indicated  
Sheet Title:  
**FIRST FLOOR PLAN**  
Sheet Number:  
**A1.1**  
Printed on: 4/23/2021 11:44:50 AM



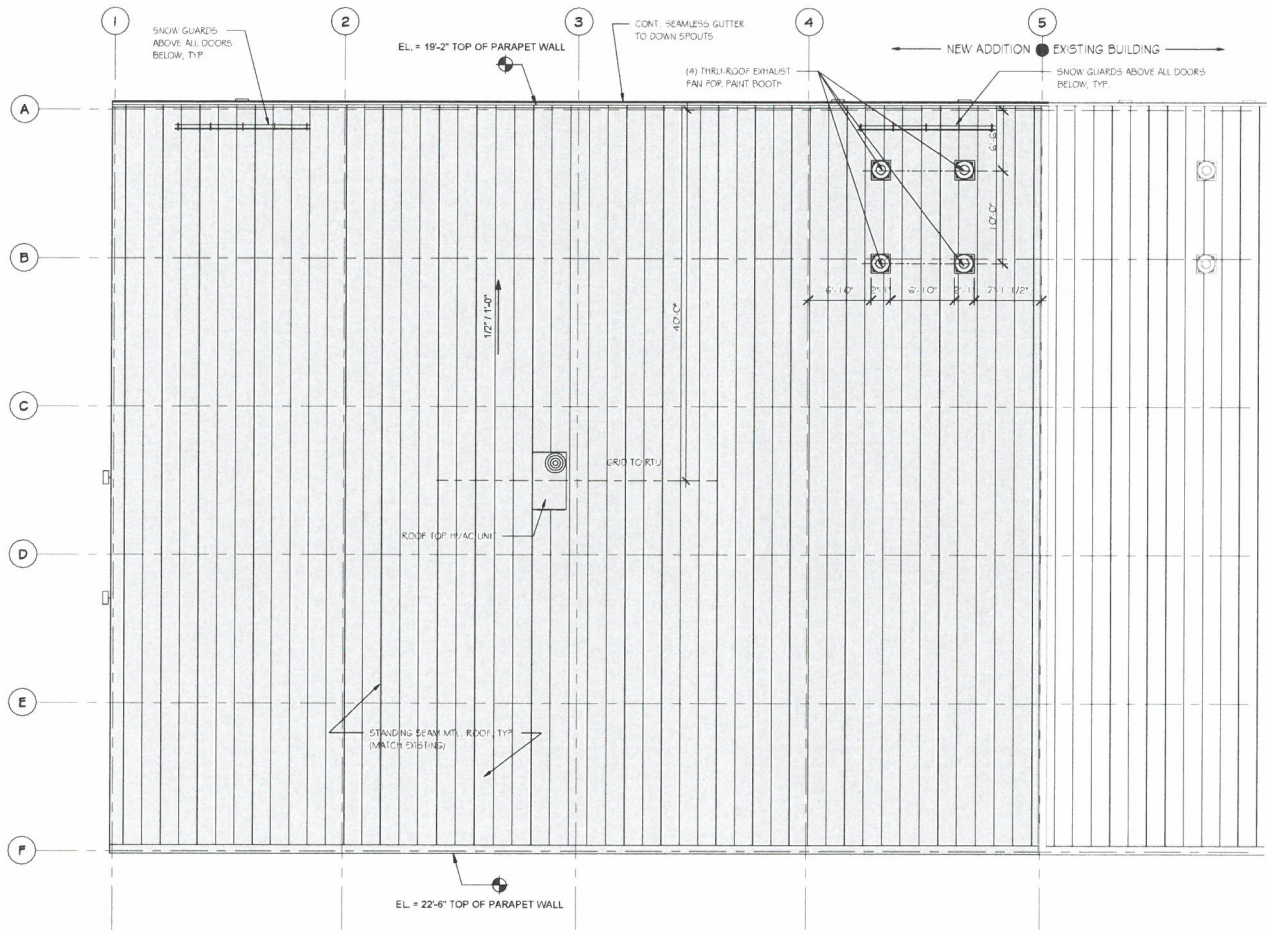
**T|W**  
DESIGNS  
254 DRAKE HILL RD. STRAFFORD, NH  
P. 603.664.2181 | F. 603.664.9508

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APRIL 23, 2021



2 ROOF PLAN  
1/8" = 1'-0"

No. \_\_\_\_\_ Date \_\_\_\_\_  
Revision Schedule

Project Info  
**Key Collision of Rochester**

10 Farmington Road Rochester, NH

Sheet Status:  
Issued For: n.f.c.  
Orig. Issue Date: preliminary progress

JOB NO: 21001  
DRAWN: MLN  
CHECKED: JMT

SCALE: As indicated

Sheet Title:  
**ROOF PLAN**

Sheet Number:  
**A1.2**

Printed on: 4/23/2021 11:44:53 AM

N.F.C.  
4/23/2021 11:44:53 AM





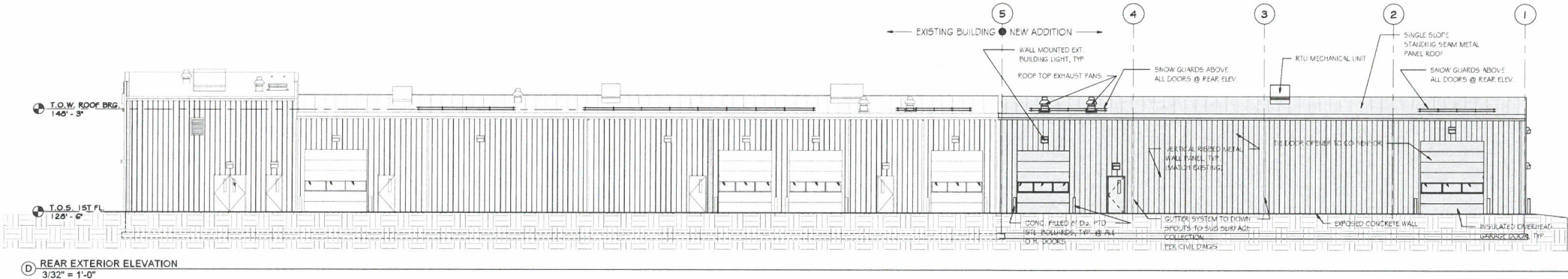
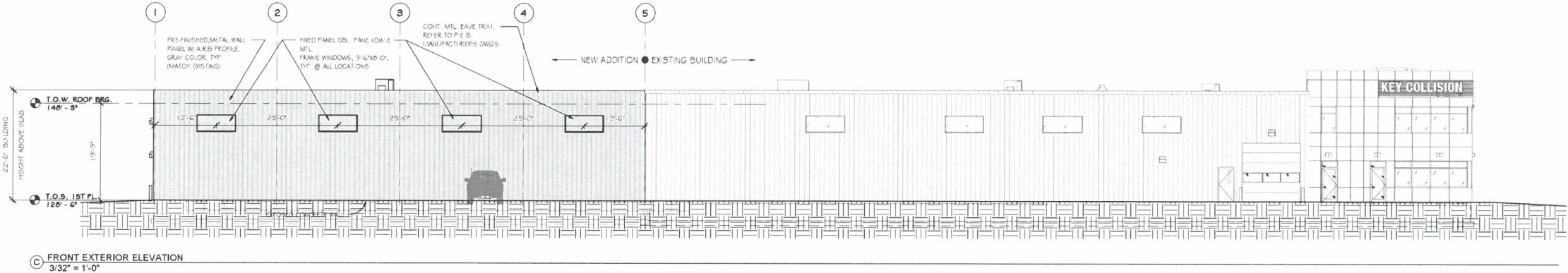
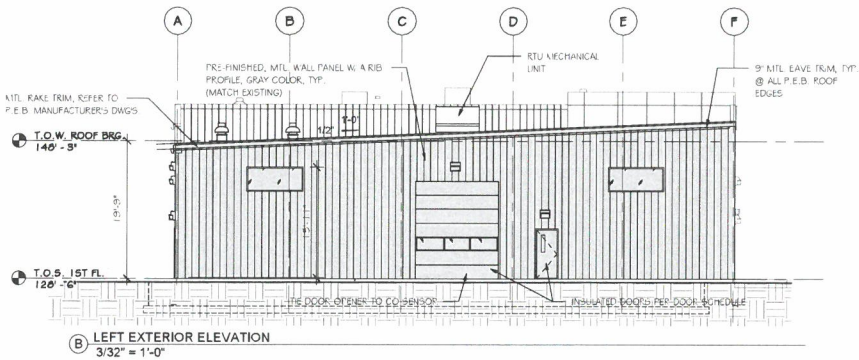
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- EXTERIOR ELEVATION NOTES:
- 1) PANEL COLOR SELECTION T.B.D. CONSTRUCTION PROJECT MANAGER TO VERIFY W/ ARCHITECT PRIOR TO PURCHASE.
  - 2) EXT. GRADE SHOWN IS APPROXIMATE. REFER TO CIVIL DOCUMENTS FOR MORE INFORMATION.
  - 3) ALL EXT. MTL. DOOR & O.H. DOOR COLOR TO MATCH ADJACENT PANEL COLOR.

No.	Description	Date
Revision Schedule		

Project Info  
**Key Collision of Rochester**

10 Farmington Road Rochester, NH

Sheet Status:	
Issued For:	R.F.C.
Design Date:	preliminary progress
JOB NO:	21001
DRAWN BY:	MLN
CHECKED BY:	JMT
SCALE:	3/32" = 1'-0"

Sheet Title:  
**EXTERIOR ELEVATIONS**

Sheet Number:  
**A3.1**

Printed on: 4/23/2021 11:45:15 AM