



NONRESIDENTIAL SITE PLAN APPLICATION

City of Rochester, New Hampshire

Date: 5-24-22 Is a conditional use needed? Yes: x No: Unclear:
(If so, we encourage you to submit an application as soon as possible.)

Property information

Tax map #: 112; Lot #'s: 20; Zoning district: R-2

Property address/location: 105 Eastern Ave, Rochester, NH

Name of project (if applicable): Parking Lot Expansion for Monarch School

Size of site: 12.6 acres; overlay zoning district(s)? Wetlands Overlay

Property owner

Name (include name of individual): Monarch School of New England Inc.,

Mailing address: PO Box 1921, Rochester, NH 03866

Telephone #: 603-332-2848 Email: kplourde@monarchschoollne.org

Applicant/developer (if different from property owner)

Name (include name of individual): SUR Construction Inc

Mailing address: 233 Chestnut Hill Road, Rochester, NH 03867

Telephone #: 603-332-4554 Email: jdewildt@surconstruction.com

Engineer/designer

Name (include name of individual): Berry Surveying & Engineering, Kenneth A. Berry PE, LLS, Christopher R. Berry Project Manager

Mailing address: 335 Second Crown Point Road, Barrington, NH 03825

Telephone #: 603-332-2863 Fax #:

Email address: crberry@metrocast.net Professional license #: PE 14243, LLS 805

Proposed activity (check all that apply)

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

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

Describe proposed activity/use: Expansion of a Porous Parking Lot 11,530 SF in size for 31 spaces which is a net gain of 29 spaces. Additional Parking needed to services students at the Monarch School

Describe existing conditions/use (vacant land?): Vacant Wooded Land

Utility information

City water? yes ☒ no ☐; How far is City water from the site? _____

City sewer? yes ☒ no ☐; How far is City sewer from the site? _____

If City water, what are the estimated total daily needs? no change 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? Porous Parking Lot. Overflow is discharged to overland woodland area.

Building information

Type of building(s): Existing Building is a wood framed structure used for the Monarch School. No Changes Proposed

Building height: 15' +/- Finished floor elevation: 234.50

Other information

parking spaces: existing: 58 total proposed: 87; Are there pertinent covenants? NO

Number of cubic yards of earth being removed from the site None. Import Site

Number of existing employees: 80; number of proposed employees total: 80

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

Wetlands: Is any fill proposed? no; area to be filled: _____; buffer impact? 3500 SF

Proposed <i>post-development</i> disposition of site (should total 100%)		
	Square footage	% overall site
Building footprint(s) – give for each building	11,693	2.13
Parking and vehicle circulation	40,522	7.38
Planted/landscaped areas (excluding drainage)	+/-15,000	2.73
Natural/undisturbed areas (excluding wetlands)	+/-89,841	16.37
Wetlands	+/-391,800	71.38
Other – drainage structures, outside storage, etc.		

Comments

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

Variance received for parking within 50' wetlands setback and work within the 25' wetlands buffer.

Conditional Use Requested for travel lanes within 50' setback and not covered under variance request

Submission of application

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

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

Signature of property owner: _____

Date: 5-24-22

Signature of applicant/developer: _____

Date: 5-24-22

Signature of agent: _____

Date: 5-24-22

Authorization to enter subject property

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

Signature of property owner: _____

Date: 5-24-22



Conditional Use Permit Application
City of Rochester, New Hampshire

Date: 5-24-22

Property information

Tax map #: 112 ; **Lot #'s):** 20 ; **Zoning district:** R-2

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Property owner

Name (include name of individual): Monarch School of New England Inc.,

Mailing address: PO Box 1921, Rochester, NH 03866

Telephone #: 603-332-2848 **Fax** _____

Applicant/developer (if different from property owner)

Name (include name of individual): SUR Construction Inc

Mailing address: 233 Chestnut Hill Road, Rochester, NH 03867

Telephone #: 603-332-4554 **Fax #:** _____

Engineer/designer

Name (include name of individual): Berry Surveying & Engineering, Kenneth A. Berry PE, LLS, Christopher R. Berry Project Manager

Mailing address: 335 Second Crown Point Road, Barrington, NH 03825

Telephone #: 603-332-2863 **Fax #:** _____

Email address: crberry@metrocast.net **Professional license #:** PE 14243, LLS 805

Proposed Project

Please describe the proposed project: 3500 SF of impact in the outer 50' setback for drive aisles.

Please describe the existing conditions: Wooded upland.

Conditional Use Requested for travel lanes within 50' setback and not covered under variance request

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 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: 5-24-22

Signature of applicant/developer:  _____

Date: 5-24-22

Signature of agent:  _____

Date: 5-24-22



BERRY SURVEYING & ENGINEERING

335 Second Crown Point Road

Barrington, NH 03825

Phone: (603) 332-2863

Fax: (603) 335-4623

www.BerrySurveying.Com

crberry@metrocast.net

May 24, 2022

City of Rochester Planning Board
Attention: Shanna Saunders, Director of Planning & Development
33 Wakefield Street
Rochester, NH 03867,

Re: Monarch School of New England
Site Plan and Conditional Use Porous Parking Area
105 Eastern Ave
Rochester, NH 03867
Tax Map 112, Lot 20

Ms. Saunders

On behalf of our client, Monarch School of New England, Berry Surveying & Engineering (BS&E) is submitting for a Site Plan Review and Conditional Use Permit for the expansion of a porous parking area at the rear of the existing porous parking lot located at 105 Eastern Ave.

Background and General Narrative:

The existing site is located at 105 Eastern Ave. and is occupied and owned by the Monarch School of New England, which provides specialized educational services to elementary age students. Over the years the site has gone through expansions in an effort to keep up with parking for an increased staffing need. The last expansion was the installation of the porous parking lot at the rear of the school.

The school has standard pick-up and drop-off at the front of the site using the one-way looping driveway from and to Eastern Ave. The front of the site contains ADA spaces needed for the school, and the eastern side of the building, as well as the newest parking area to the rear, are used for staff parking. As can be seen on the enclosed sketch plan, the site has no capacity to expand in the easterly direction due to the existing wetlands system, and the front of the site has been used to its maximum efficiency.

Though the school is not proposing an increased enrollment, the parking demand for the same student occupancy has grown beyond the capacity of the existing site design. Each classroom contains a primary teacher, but on an increasing basis each student has one on one assistance for various topics and subjects. In the past, these services have been staggered from student to student throughout the day, which has pacified the parking demand onsite. This operational

strategy is no longer viable due to the increased demand for services for each student through the school day.

BS&E has met with the applicant, as well as the applicant's preferred contractor, SUR Construction Inc. onsite to review potential revisions that may have resulted in minor increases in parking overall onsite, however it would not result in an appreciable amount and therefore other parking expansions needed to be considered. BS&E was hired to conduct a preliminary site survey which included a wetlands delineation conducted by Deidra Benjamin, CWS. The preliminary results found that there is a productive upland area remaining between the existing porous parking area and the Eversource Utility easement, located at the rear of the site.

After a limited survey of the project area, an expansion of the porous pavement parking was laid out with the following goals in mind:

- Increase the amount of permanently available parking onsite for the immediate need as well as designed for future needs and demands. The site, as proposed, provides for 31 additional spaces, which is a net increase of 29, whereas 2 are required to be removed from the existing site to provide access into the proposed lot.
- Place the parking in an advantageous location to allow for efficiency in layout around the lower quality common wooded wetlands and further from the existing stream which flows through the site.
- Construct the parking array with a porous material to remove the need for any disturbance beyond the parking and grading requirements and allow for treatment and re-infiltration at the immediate source. This also keeps the construction materials from each parking area consistent, which aids in the stormwater operation on the site. The porous pavement section is design to infiltrate the smaller rain events as would take place in the natural condition, and an underdrain system is proposed for events that are larger than the infiltration capacity. The porous pavement provides for treatment and attenuation of the larger events so that all peak rates and volumes are reduced to offsite areas.

Snow storage is shown on the proposed site plan as far from the wetlands boundaries as practical on the site. An operation and maintenance plan will be developed for the paved section which will also be used for the existing porous parking area. Lighting is being explored by the applicant as to the need based on the work day timing during the winter months. In the event it is needed one or two solar lamps will be provided in the area for safety.

A conditional use permit is required for 3,500 SF of traveled way within the outer 50' setback in the parking array. The remainder of the parking area received a variance to construction parking and disturbance within the 50' and 25' sections of the overlay. The remaining aisle ways within the outer 25' require a conditional use permit.



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335 Second Crown Pt. Rd., Barrington, NH 03825
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In accordance with Subsection 42.19 (i) (1) (A)), a conditional use permit may be granted given all four of the following criteria are satisfied. Below is the justification for the proposed disturbance within the 50' setback.

- (i) The proposed construction is essential to the productive use of land not in the COD.
The proposed aisle ways are essential to gain access to the parking array, which is essential to the continued operations of the Monarch School.
- (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.
The design of the aisle and parking array is proposed to be porous pavement, which is an appropriate use given the context of the area and existing use of the material onsite. There is a sediment and erosion control plan provided for the project which will be used during the construction the lot.
- (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.
There is no feasible route or area outside the overlay for the parking array or the aisle ways. No abutting land is available for this use which would not require further and larger impacts to gain access to.
- (iv) Economic advantage is not the sole reason for the proposed location of work.
The use is to provide additional educational services to the students at the Monarch School and reduce a parking issue that exists onsite in the existing condition.

Thank you all for your time and attention this matter.

Respectfully submitted,
BERRY SURVEYING & ENGINEERING


Christopher R. Berry, SIT
Principal, President



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Photographs of the impact area.



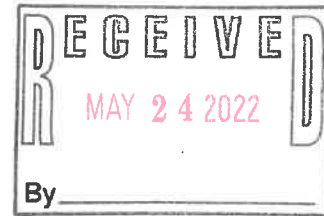
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Planning Board
Conservation Commission
Historic District Commission
Arts & Culture Commission

PLANNING & DEVELOPMENT DEPARTMENT

City Hall Annex
33 Wakefield Street,
Rochester, New Hampshire 03867-1917
(603) 335-1338 - Fax (603) 330-0023
Web Site: www.rochesternh.net



MEMORANDUM

TO: Applicants for a **SITE PLAN - NONRESIDENTIAL**

FROM: Planning & Development

DATE: May 2019

SUBJ: Submission Requirements and Review Process for Formal Applications

We appreciate your interest in developing property in the City of Rochester and would like to make the application process as simple and pleasant as possible. Please review the following items carefully and feel free to contact our office with any questions, comments, or suggestions. For applicants/agents who are not highly familiar with the review process in Rochester it is strongly recommended that you speak with the Planning Department (603-335-1338) about the submission process before preparing an application.

** **Please note.** On any significant site plans and on major subdivisions, especially those involving a new road, a preliminary meeting with staff and/or a preliminary (conceptual or preferably design review) discussion with the Planning Board prior to engineering the project is **strongly encouraged**. In most cases, initial site layout or proposed lot and road locations will change as a result of the City's review and you will save time and money if you wait to do the engineering until you receive this feedback. A separate application form is used for preliminary applications.*

- A) The applicant must submit all of the following items in order for the application to be considered and processed as a formal application (*see exception/clarification at the end*):
- 1) Completed application form (blank attached) – **4 copies**
 - 2) Written narrative about the proposed project addressing the scope of operation, purpose, justification, and impacts (a simple letter of intent may suffice) – **4 copies**
 - 3) Complete set of drawings on 11" x 17" sheets – **2 sets folded in half**
 - 4) Complete sets of full size drawings as described in the regulations (a mylar is not required) – **3 sets**
 - 5) Drainage, traffic, and other studies as appropriate – **2 copies**

- 6) Completed checklist (corresponding to Section II.5.A. of the Site Plan Regulations or Section 4 of the Subdivision Regulations, blank attached) filled out by applicant – **1 checklist**
 - 7) All items specified on the checklist (5, above) and in the regulations must be submitted unless they are not applicable or a waiver is requested and approved. For site plans please be sure to include information on lighting, signage, and architecture, as specified.
 - 8) Application fee (see fee schedule). Checks or money orders should be made out to "City of Rochester".
 - 9) Completed abutter's list. All parcels of land which are contiguous to the subject property at any point or which would be contiguous if not for an intervening road or stream must be listed. The list is completed by the applicant directly from information on the computer terminal located in the Assessor's Office. The list may not be filled out more than 5 days prior to the application deadline. Please note that holders of conservation or preservation easements must also be notified. If there are any they must be included on the abutter's list. One original only. The applicant must pay the City of Rochester the current postal rate for a certified letter to be mailed to everyone on the abutter list. The Planning Department will generate the public hearing notice and take it to the post office to be mailed certified. The applicant shall supply two (2) mailing labels for each name on the abutter list.
 - 10) Requests for waivers, if any. The applicant may request waivers from submission requirements and design standards. Waivers are granted by the Planning Board at its discretion. Any request must be submitted by the applicant in writing specifying the regulation number and reason for the request. If you believe that obtaining a waiver will improve your project we encourage you to apply for it. Four (4) copies or 1 copy if requested on checklist
 - 11) ***Please submit the four (4) application packages - application form, narrative, and folded 11x17 drawings (and waivers if submitted as a separate memo) – with each clipped together as one set.*** Staff will inform you after the TRG meeting how many final application packages to submit for the Planning Board.
 - 12) If all necessary items are not submitted, such that the application cannot be accepted as complete, the application will be treated as a preliminary application. However, *at the discretion of the Planning Board*, various items which can be reviewed fairly independently and readily inserted into an engineered plan - such as landscaping, lighting, signage, and architecture – may be submitted later, after plan acceptance, provided they are submitted in a form and timeframe to allow for full review prior to final action. Consult the Planning Department for more information. In addition, particular items – such as the drainage report, for example – may be submitted after the application deadline but prior to the Planning Board meeting and not affect acceptance, *if the timeframe for submittal of those items is approved in advance by the Planning Department.*
- B) Agents (or applicants) must attend the Technical Review Group meeting held one week after the application deadline. **The applicant or agent must attend the Planning Board meeting.**

- C) The application must comply with all of the following: the City of Rochester Site Plan Regulations or Subdivision Regulations, as appropriate, unless a waiver is obtained; the City of Rochester Zoning Ordinance unless a variance is obtained; and all other applicable local, state, and federal regulations.
- D) The project must be built and executed exactly as specified in the approved application package unless modifications are subsequently approved. All of the documentation submitted in the application package will be considered part of the approval unless otherwise updated, revised, or superseded.
- E) The application may be subject to the following requirements, fees, and assessments:
 - 1) A small monumentation fund fee will be assessed on all projects that are not surveyed using the New Hampshire State Plane Coordinate System.
 - 2) A connection fee will be imposed on all projects that tie into the City's water or sewer system.
 - 3) Where drainage systems, roads, sidewalks, or other infrastructure impacted by the project are substandard the applicant may be required to upgrade these facilities or contribute to an upgrade.
 - 4) Payment for inspection fees as determined by the Department of Public Works.
 - 5) Reimbursement of any out-of-pocket expenses incurred by the City in evaluating the project.
 - 6) A sewer impact contribution must be paid prior to the issuance of a certificate of occupancy. The sewer impact is a one time payment of \$2.00 per gallon for average daily flow for new connections to City sewer or increases in flow.
 - 7) The Planning Board may impose other requirements, fees, and assessments, as appropriate.
- F) A pre-construction meeting will be required for all projects that involve significant ground disturbance. The applicant will be required to sign pre-construction and inspection fee agreements after project approval. For projects substantial in scope the applicant may be required to enlist the services of the design engineer to inspect and certify the work. After construction is completed the applicant must submit as-built plans to the City.

Once again, please feel free to contact our department with any questions. Thank you for your cooperation.

Site Plan Checklist (residential and nonresidential)

**To be filled out by applicant/agent (with notes to be inserted by staff)*

See regulations for other specific requirements
City of Rochester Planning & Development Department

Project Name: Parking Lot For Monarch School Map: 112 Lot: 20 Date: 5-24-22

Applicant/agent: Christopher R. Berry Berry Surveying & Engineering Signature: 

(Staff review by: _____ Date: _____)

General items

	Yes	No	N/A	Waiver Requested	Comments
<u>4</u> sets completed application	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Total application fee	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>4</u> copies of narrative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>3</u> sets of full-size plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>2</u> sets of 11 X 17 reductions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Completed abutters list	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Copy of existing covenants, easements, deed restrictions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

Plan Information

Basic information including:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
• Title sheet					
• Name of Project					
• Date					
• North arrow					
• Scale					
• Legend					
• Revision block					
• Vicinity sketch -not less than 1" = 1,000'					
Name and address of developer/applicant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Name, stamp, and NH license # of land survey, engineer, and/or architect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
City tax map & lot #'s	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Notation on plans: "For more information about this site plan contact...."	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

General items Continued

	Yes	No	N/A	Waiver Requested	Comments
Approval block (for signature by staff attesting to Planning Board approval)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
References to neighboring plans and subdivisions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Surveyed property lines including: • existing and proposed bearings • existing and proposed distances • pins, stakes, bounds • monuments • benchmarks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Include error of closure statement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Information on abutting properties: • owner name • owner address • tax map and lot # • square footage of lots • approximate building footprints • use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Zoning

Zoning designations of subject tract and in vicinity of tract	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Zoning requirements for district: • frontage • lot dimensions/density • all setbacks • lot coverage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Zoning overlay districts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Existing Topographic Features:

Contour lines a (not to exceed two-foot intervals, except on steep slopes) and spot elevations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Soil types and boundaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Soil test pit locations, profiles, and Depth to water table and ledge	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Percolation test locations and results	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

Existing Topographic Features Continued:

	Yes	No	N/A	Waiver Requested	Comments
Water features (ponds, streams)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wetlands including name of certified Wetlands scientist who delineated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Statement whether located in flood area, And if so, 100 year flood elevation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Delineation of trees and open areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Overview of types of trees and vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wooded Wetlands and Woodland
Stone walls and archaeological features	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Locations of trails and paths	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other natural/cultural resources (productive farmland, habitats, scenic views, historic structures, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Building Information

Existing buildings/structures including square footage and use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Proposed building/structures including <ul style="list-style-type: none">• square footage• first floor elevation• use• # bedrooms per unit if residential	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Proposed Buildings
Elevation drawing of proposed buildings and structures as follows: <ul style="list-style-type: none">• Showing all four sides• Drawn to scale with dimensions• Showing exterior materials• Showing exterior colors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Circulation and Parking Plans

Existing and proposed driveways and access points including: <ul style="list-style-type: none">• Width of opening• Turning radii• Cross section of driveway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Curbing & edge treatment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Traffic control devices, if appropriate:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Circulation and Parking Plans Continued:

	Yes	No	N/A	Waiver Requested	Comments
Number of parking spaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
• required by ordinance					
• proposed					
Parking layout and dimensions of spaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Handicap spaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Loading area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pedestrian circulation plan (including existing sidewalks in vicinity, if any)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bicycle rack, if appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Buffers, landscaping & screening	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rear of Site
Snow storage areas/plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Utilities

Show all pertinent existing and proposed profiles, elevations, materials, sizes, and details

Water lines/well (with protective radius)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sewer lines/septic and leaching areas	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pump stations	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Stormwater management system: pipes, culverts,, catch basins detention/ retention basins, swales, rip rap, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Porous Pavement
Fire hydrant location(s) and details	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Change in Building
Electric, telephone, cable TV (underground or overhead)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gas lines	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fire alarm connections	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Treatment of solid waste (dumpsters?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Handling of oil, grease, chemicals hazardous materials/waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Landscaping Plan

	Yes	No	N/A	Waiver Requested	Comments
Demarcation of limits of construction, clear delineation of vegetation to be saved, and strategy for protecting vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Proposed ground cover, shrubbery, and trees including: <ul style="list-style-type: none">• botanical and common names• locations and spacing• total number of each species• size at installation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rear of Site None Proposed
Planting plan (size of holes, depth of planting, soil amendments, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Irrigation: system? soaker hose? Manual? underground, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Protection of landscaping from vehicles (Curb stops, berm, railroad ties, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Specification all finished ground surfaces and edges (greenspace, mulch, asphalt, concrete, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Fencing/screening	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<u>Signage</u>					
Location and type of signs: <ul style="list-style-type: none">• Attached to building• Freestanding• Directional, if appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Dimensions of signs: <ul style="list-style-type: none">• Height• Area• Setback	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Elevation drawings with colors & materials	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Type of Illumination, if proposed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Outdoor Lighting

	Yes	No	N/A	Waiver Requested	Comments
Locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Height of fixtures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wattage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type of light (high pressure sodium, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Design/cut sheets of fixtures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Illumination study, if appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Other Elements

Traffic study, if appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Change in Services During Peak Hours
Drainage study with calculations, storm Water impact analysis, and mitigation plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grading plan (including finish grades)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Earth being removed from site(in cubic yards)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Removal
Erosion and sedimentation plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Proposed covenants, easements, And deed restrictions, if any	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fiscal impact study, if requested	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Additional Comments:

TABLE OF CONTENTS:

- SHEET 1 ~ NEIGHBORHOOD PLAN
SHEET 2 ~ PARTIAL EXISTING CONDITIONS PLAN
SHEET 3 ~ SITE PLAN
SHEET 4 ~ PARKING LOT GRADING PLAN
SHEET 5 ~ POROUS PAVEMENT PLAN (P-101)
SHEET 6 ~ EROSION & SEDIMENT CONTROL DETAILS (E-101)
SHEET 7 ~ CONSTRUCTION DETAILS (C-101)

PARKING LOT EXPANSION
FOR
MONARCH SCHOOL OF NEW ENGLAND
105 EASTERN AVENUE
ROCHESTER, N.H.
TAX MAP 112, LOT 20

NOTE:

BERRY SURVEYING & ENGINEERING HAS PREPARED AN INSPECTION & MAINTENANCE MANUAL AS PART OF THIS PROJECTS DOCUMENTATION. ALL USERS ARE BOUND TO THIS DOCUMENT AS PART OF THE APPROVAL OF THE PLANNING BOARD. COPIES OF THE YEARLY INSPECTIONS ARE TO BE DELIVERED TO THE CITY OF ROCHESTER COMMUNITY SERVICES DEPARTMENT.

OWNER: MONARCH SCHOOL
105 EASTERN AVE
ROCHESTER, NH 03867

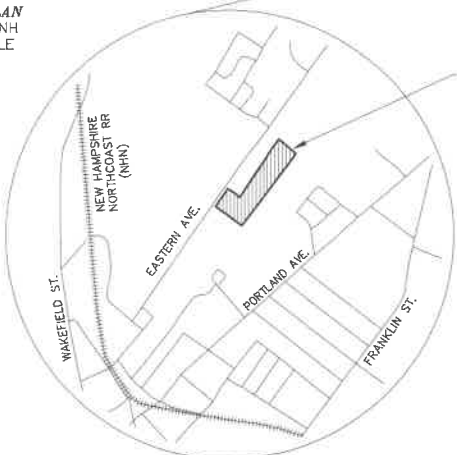
SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
CPSWQ, CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

APPLICANT: MONARCH SCHOOL
105 EASTERN AVE
ROCHESTER, NH 03867

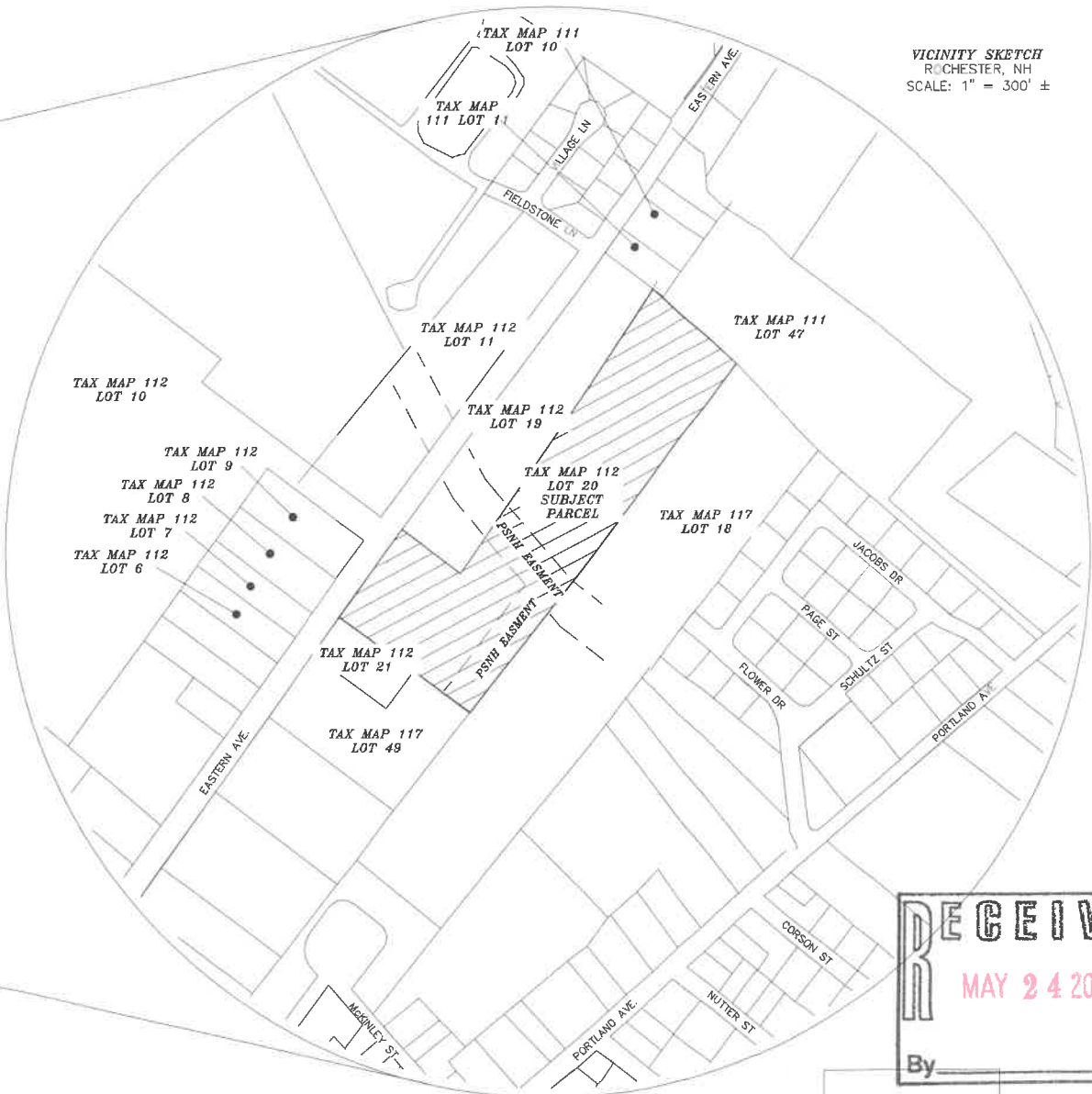
ENGINEER OF RECORD: KENNETH A. BERRY, PE, LLS
CPSWQ, CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

WETLAND SCIENTIST: DEIDRA BENJAMIN, CWS
100 LEAVITT ROAD
PITTSFIELD, NH 03263
(603)-496-3307

LOCATION PLAN
ROCHESTER, NH
NOT TO SCALE



PROJECT
LOCATION



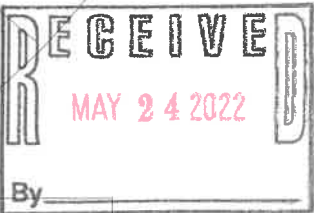
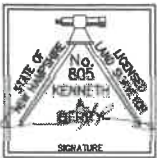
VICINITY SKETCH
ROCHESTER, NH
SCALE: 1" = 300' ±

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE PLAN, THE SITE PLAN APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER LAND SITE REVIEW REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXCEPT INsofar AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW. NON - ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL. ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SITE PLAN APPROVAL.

GENERAL PLAN SET NOTES:

- 1.) 11x17" PLANS ARE TWICE THE PUBLISHED SCALE.
- 2.) ALL PLANS ARE CONSIDERED TO BE NOT FOR CONSTRUCTION UNLESS THEY CONTAIN THE APPROVAL STAMP OF THE CITY OF ROCHESTER.

APPROVED ROCHESTER



REVISION	DATE	DESCRIPTION

PARKING LOT EXPANSION LAND OF MONARCH SCHOOL OF NEW ENGLAND 105 EASTERN AVE ROCHESTER, N.H. TAX MAP 012, LOT 20
--

BERRY SURVEYING & ENGINEERING 335 SECOND CROWN POINT ROAD BARRINGTON, NH 03825 (603)332-2863 SCALE : AS SHOWN DATE : MAY 23, 2022 FILE NO. : DB 2022-006

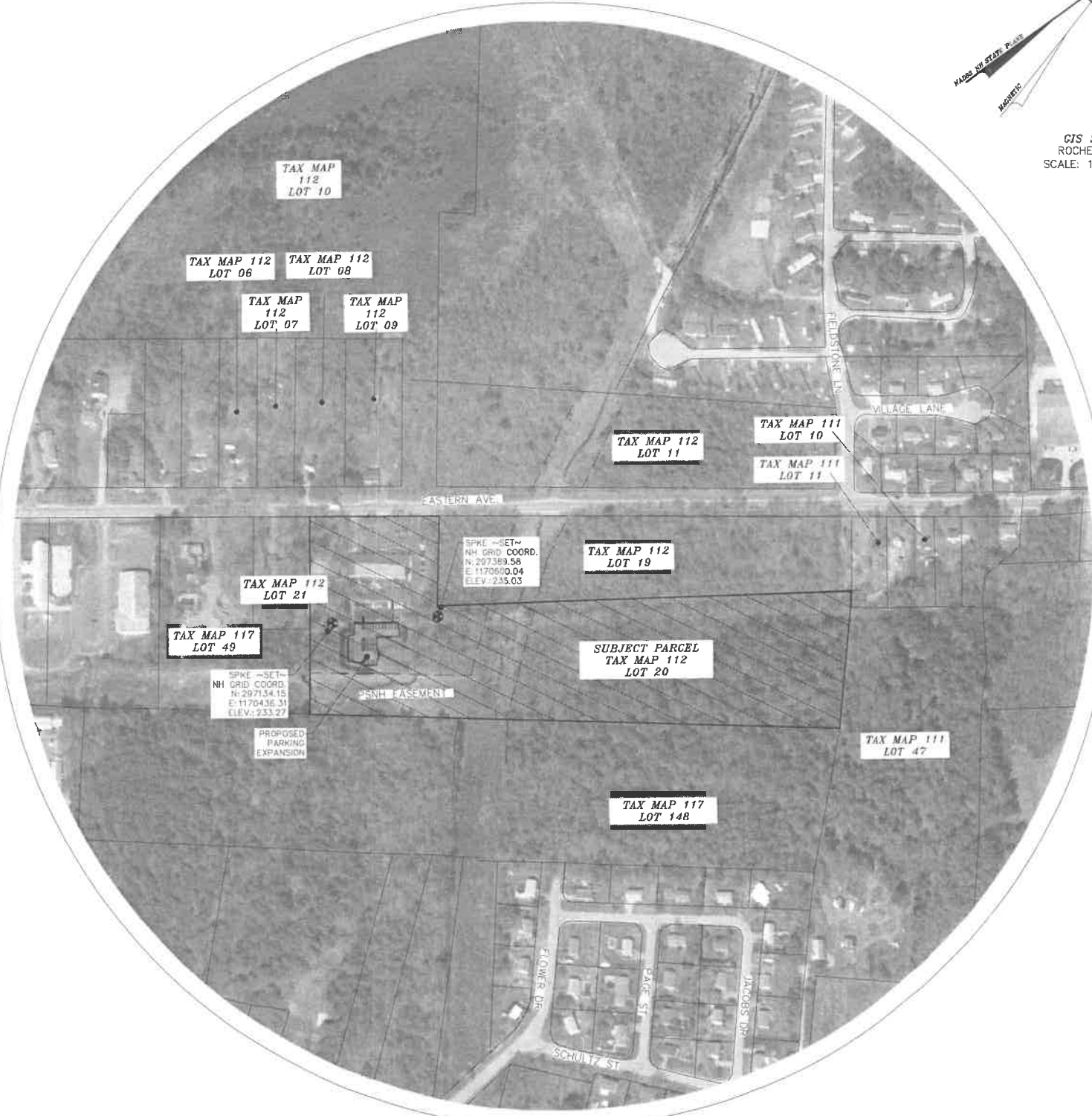


ABBREVIATION LEGEND:

E.O.P. EDGE OF PAVEMENT
BITUM. BITUMINOUS
E.S.H.W.T. ESTIMATED SEASONAL HIGH WATER TABLE
TYP. TYPICAL
F.G. FINISHED GRADE
E.G. EXISTING GRADE
L.F. LINEAR FOOT
FND. FOUND
T.B.R. TO BE REMOVED
P.L. PROPERTY LINE
E.L. EASEMENT LINE
T.B.M. TEMPORARY BENCHMARK
'/.' FOOT / FOOT

LEGEND:

STEEL STAKE ~FND~
GRANITE BOUND ~FND~
UTILITY POLE/GUY WIRE
SIGNAGE
FLOW ARROW
TEMPORARY BENCHMARK (T.B.M.)
DETAIL SHEET / DETAIL
CONTOUR MINOR, EXISTING
CONTOUR MAJOR, EXISTING
CONTOUR MINOR, PROPOSED
CONTOUR MAJOR, PROPOSED
WETLAND LINE
TREE LINE
PERIMETER CONTROL
CONSTRUCTION FENCE
RIP-RAP
SNOW STORAGE
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION



ADJUTERS WITHIN 200':

N/F DOWNNEY, SALLY A REV TRUST
DOWNNEY, SALLY A TRUSTEE
P.O. BOX 1596
ROCHESTER, NH 03866-1596
TAX MAP 112, LOT 21
S.C.R.D. BOOK 3858, PAGE 267
N/F WOTTON, ROBERT
83 EASTERN AVE
ROCHESTER, NH 03867-2005
TAX MAP 117, LOT 49
S.C.R.D. BOOK 1123, PAGE 608
N/F CORNISH, BEATRICE NUTTER &
SPREEMAN, CATHRYN C
60 LEONARD ST
ROCHESTER, NH 03867-2323
TAX MAP 117, LOT 148
S.C.R.D. BOOK 1973, PAGE 225
N/F LIBERSKY, KAREN
514 PORTLAND ST
ROCHESTER, NH 03867-2447
TAX MAP 111, LOT 47
S.C.R.D. BOOK 4215, PAGE 519
N/F PICCOLILLO, JOHN C
167 EASTERN AVE
ROCHESTER, NH 03867-2007
TAX MAP 111, LOT 10
S.C.R.D. BOOK 2249, PAGE 205
N/F PICCOLILLO, JOHN C
167 EASTERN AVE
ROCHESTER, NH 03867-2007
TAX MAP 111, LOT 11
S.C.R.D. BOOK 2249, PAGE 203
N/F SPREEMAN, CATHRYN C &
JOTHAM C
60 LEONARD ST
ROCHESTER, NH 03867-2323
TAX MAP 112, LOT 19
S.C.R.D. BOOK 2249, PAGE 203

ADJUTERS WITHIN 200':

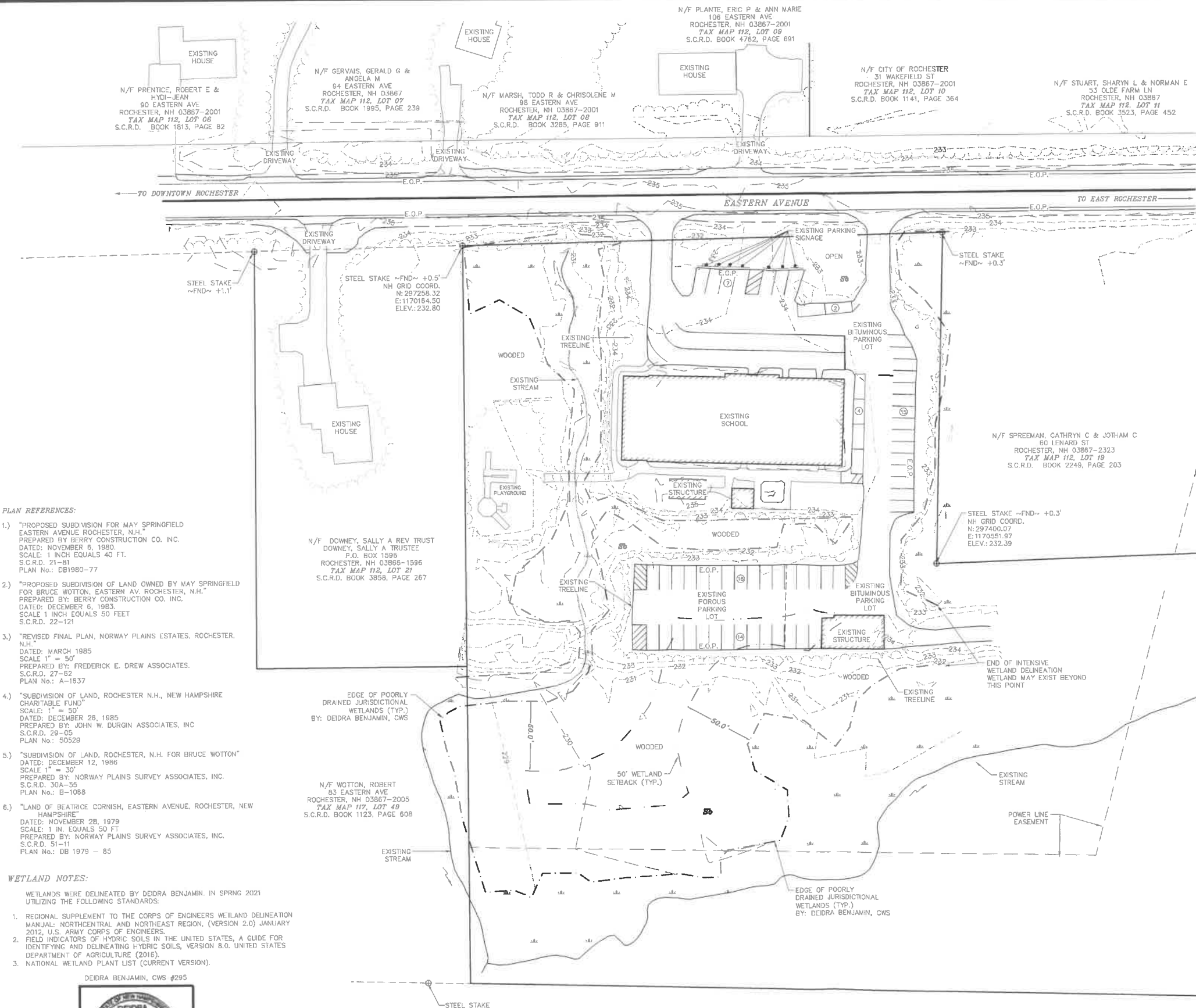
N/F STUART, SHARYN L & NORMAN E
53 OLDE FARM LN
ROCHESTER, NH 03867
TAX MAP 112, LOT 11
S.C.R.D. BOOK 3523, PAGE 452
N/F CITY OF ROCHESTER
31 WAKEFIELD ST
ROCHESTER, NH 03867-2001
TAX MAP 112, LOT 10
S.C.R.D. BOOK 1141, PAGE 364
N/F PLANTE, ERIC P & ANN MARIE
106 EASTERN AVE
ROCHESTER, NH 03867-2001
TAX MAP 112, LOT 09
S.C.R.D. BOOK 4762, PAGE 691
N/F MARSH, TODD R & CHRISOLENE M
98 EASTERN AVE
ROCHESTER, NH 03867-2001
TAX MAP 112, LOT 09
S.C.R.D. BOOK 3285, PAGE 911
N/F GERVAIS, GERALD O & ANGELA M
94 EASTERN AVE
ROCHESTER, NH 03867
TAX MAP 112, LOT 07
S.C.R.D. BOOK 1885, PAGE 239
N/F PRENTICE, ROBERT E & HYDI-JEAN
90 EASTERN AVE
ROCHESTER, NH 03867-2001
TAX MAP 112, LOT 06
S.C.R.D. BOOK 1813, PAGE 82

REVISION	DATE	DESCRIPTION

NEIGHBORHOOD PLAN LAND OF MONARCH SCHOOL OF NEW ENGLAND 105 EASTERN AVE ROCHESTER, NH TAX MAP 0112, LOT 20

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603) 332-2863
SCALE : AS SHOWN
DATE : MAY 23, 2022
FILE NO. : DB 2022-006

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
PROFESSIONAL ENGINEER
EXPIRATION DATE 12/31/2024



PLAN REFERENCES:

- 1.) "PROPOSED SUBDIVISION FOR MAY SPRINGFIELD EASTERN AVENUE, ROCHESTER, N.H." PREPARED BY: BERRY CONSTRUCTION CO. INC. DATED: NOVEMBER 6, 1980. SCALE: 1 INCH EQUALS 40 FT. S.C.R.D. 21-81 PLAN No.: DB1980-77
- 2.) "PROPOSED SUBDIVISION OF LAND OWNED BY MAY SPRINGFIELD FOR BRUCE WOTTON, EASTERN AV. ROCHESTER, N.H." PREPARED BY: BERRY CONSTRUCTION CO. INC. DATED: DECEMBER 6, 1983. SCALE 1 INCH EQUALS 50 FEET S.C.R.D. 22-121
- 3.) "REVISED FINAL PLAN, NORWAY PLAINS ESTATES, ROCHESTER, N.H." DATED: MARCH, 1985 SCALE: 1" = 50' PREPARED BY: FREDERICK E. DREW ASSOCIATES. S.C.R.D. 27-62 PLAN No.: A-1637
- 4.) "SUBDIVISION OF LAND, ROCHESTER N.H., NEW HAMPSHIRE CHARITABLE FUND" SCALE: 1" = 50' DATED: DECEMBER 26, 1985 PREPARED BY: JOHN W. DURGIN ASSOCIATES, INC S.C.R.D. 29-05 PLAN No.: 50529
- 5.) "SUBDIVISION OF LAND, ROCHESTER, N.H. FOR BRUCE WOTTON" DATED: DECEMBER 12, 1986 SCALE 1" = 30' PREPARED BY: NORWAY PLAINS SURVEY ASSOCIATES, INC. S.C.R.D. 30A-55 PLAN No.: B-1058
- 6.) "LAND OF BEATRICE CORNISH, EASTERN AVENUE, ROCHESTER, NEW HAMPSHIRE" DATED: NOVEMBER 28, 1979 SCALE: 1 IN. EQUALS 50 FT PREPARED BY: NORWAY PLAINS SURVEY ASSOCIATES, INC. S.C.R.D. 31-11 PLAN No.: DB 1979 - 85

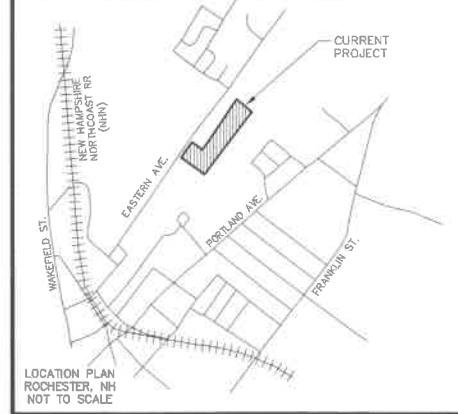
WETLAND NOTES:

- WETLANDS WERE DELINEATED BY DEIDRA BENJAMIN, IN SPRING 2021 UTILIZING THE FOLLOWING STANDARDS:
1. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
 2. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.0. UNITED STATES DEPARTMENT OF AGRICULTURE (2016).
 3. NATIONAL WETLAND PLANT LIST (CURRENT VERSION).



NRCS SOILS:

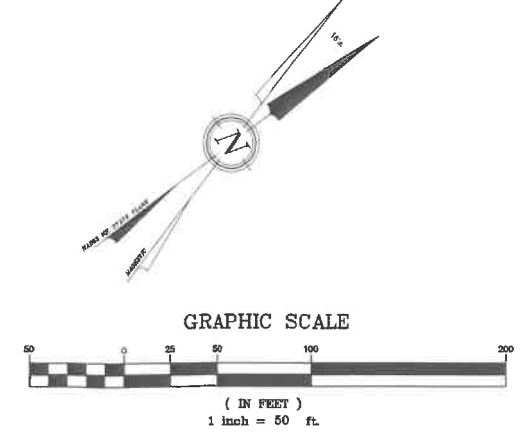
Sb - SAUGATUCK LOAMY SAND, HSD C
SEE WEBSOL USDA-NRCS



- NOTES:
- 1.) OWNER: MONARCH SCHOOL OF NEW ENGLAND
P.O. BOX 1921
ROCHESTER, NH 03868-1921
 - 2.) TAX MAP 112, LOT 20
 - 3.) S.C.R.D. BOOK 1166, PAGE 453
 - 4.) LOT AREA: 12.6 Ac. (PER TAX RECORDS)
 - 5.) ZONING: R2 - RESIDENTIAL-2
SETBACKS:
FRONT ~ 10'
SIDE ~ 8'
REAR ~ 20'
MIN. FRONTAGE: 80'
MIN. LOT SIZE: 9,000 Sq. Ft. ALL OTHER NON-FAMILY USES
MAX. BUILDING FOOTPRINT: 30%
MAX. LOT COVERAGE: 35%
MAX. BUILDING HEIGHT: 35'
 - 6.) THE INTENT OF THIS PLAN IS TO SHOW A PARTIAL EXISTING CONDITIONS OF THE LIMIT OF INTENSIVE TOPOGRAPHICAL SURVEY ON TAX MAP 120, LOT 20 LOCATED IN ROCHESTER, N.H., AS OF THE FIELD SURVEY IN SPRING 2022.
 - 7.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS PROPERTY DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF: FEMA COMMUNITY #330150, MAP #33017C0204D, DATED: MAY 17, 2005.
 - 8.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL DATUM BASED ON NAD83 STATE PLANE. COORDINATES GATHERED USING CARLSON BRX7 SURVEY GRADE GPS RECEIVERS.
 - 9.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN SPRING OF 2022 WITH AN ERROR OF CLOSURE BETTER THAN 1 PART IN 10,000.
 - 10.) TOPOGRAPHY PROVIDED IS DEMARCATED AT 1' INTERVALS, AND IS THE RESULT OF A FIELD SURVEY PERFORMED SPRING OF 2022.
 - 11.) THIS SITE IS SERVICED BY MUNICIPAL SEWER AND WATER.

PARKING COUNT:
EXISTING PARKING SPACES: 58

- LEGEND:
- STEEL STAKE ~FND~
 - EXISTING CONTOUR MINOR
 - EXISTING CONTOUR MAJOR
 - 50' WETLAND SETBACK
 - WETLAND LINE
 - PERIMETER BOUNDARY LINE
 - EASEMENT LINE
 - EXISTING TREELINE
 - NRCS SOIL LABEL
 - FND
 - FND
 - TYP
 - S.C.R.D.
 - OF DEEDS
 - EDGE OF PAVEMENT
 - E.O.P.

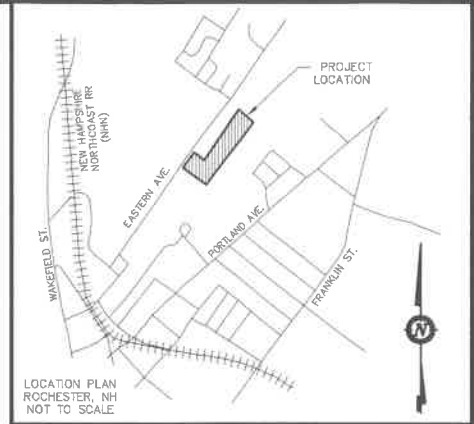
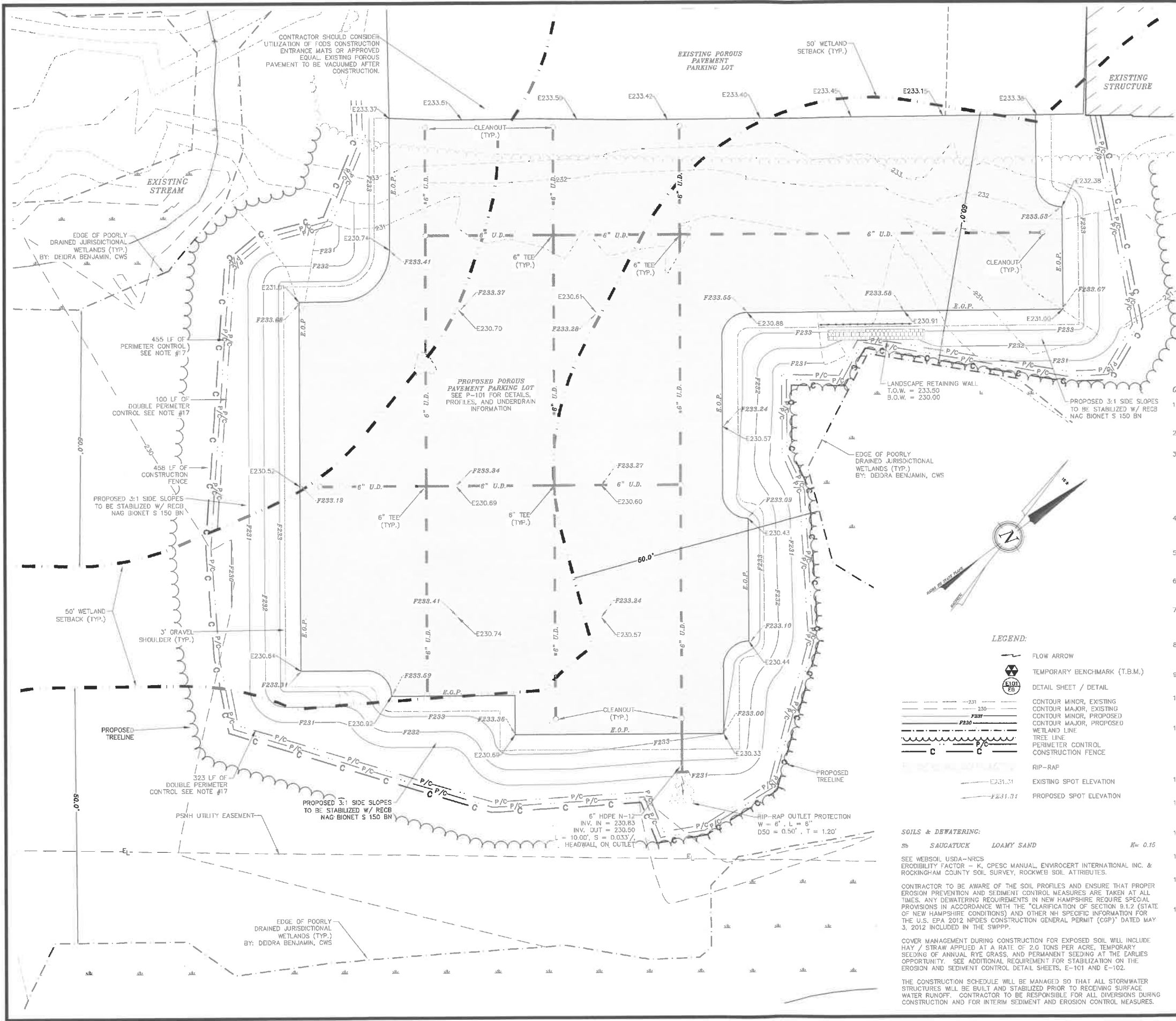


REVISION	DATE	DESCRIPTION

EXISTING CONDITIONS PLAN
OF
MONARCH SCHOOL OF NEW ENGLAND
105 EASTERN AVE
ROCHESTER, N.H.
TAX MAP 012, LOT 20

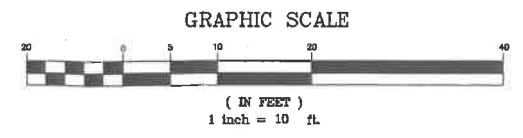
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 40 FT.
DATE : MAY 23, 2022
FILE NO. : DB 2022-006

SHEET 2 OF 7



- PROJECT NOTES:
- 1.) OWNER: MONARCH SCHOOL OF NEW ENGLAND P.O. BOX 1921 ROCHESTER, NH 03866-1921
 - 2.) TAX MAP 112, LOT 20
 - 3.) S.C.R.D. BOOK 1156, PAGE 453
 - 4.) LOT AREA: 12.6 Ac. (PER TAX RECORDS)
 - 5.) THE INTENT OF THIS PLAN IS TO PROVIDE GRADING DETAILS OF THE PROPOSED PARKING LOT ON TAX MAP 112, LOT 20.
 - 6.) BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.
 - 7.) EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS.

- GRADING NOTES:
- 1.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016, CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.
 - 2.) CONTRACTOR SHALL TAKE SPECIAL CARE IN NOT DISTURBING EXISTING MONUMENTS, BOUNDS, AND OR BENCHMARKS WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
 - 3.) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
 - 4.) WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
 - 5.) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
 - 6.) AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
 - 7.) ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM PLACED AND SEEDED. THE LOAM SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
 - 8.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.
 - 9.) PROJECT DISTURBANCE: 17,500 Sq. Ft. (0.40 Ac.) NOTE THAT THE PROJECT IS NOT SUBJECT TO THE EPA NPDES PHASE II.
 - 10.) A LETTER OF CREDIT FOR THE COST OF RE-VEGETATING ALL DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS, AS MAY BE APPLICABLE.
 - 11.) WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONFIRM ALL ELEVATIONS. CONFLICTS WILL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
 - 12.) CONTRACTOR IS TO INSTALL A CONSTRUCTION ENTRANCE PRIOR TO EARTH DISTURBING ACTIVITIES.
 - 13.) CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE PARKING LOT, SIDEWALKS AND ANYTHING DISTURBED, TO ENSURE THAT NO SEDIMENT IS BEING TRACKED ONTO EASTERN AVENUE.
 - 14.) FUGITIVE DUST IS TO BE CONTROLLED THROUGHOUT THE CONSTRUCTION PROCESS IN ACCORDANCE WITH ENV-A 1000.
 - 15.) CONTRACTOR IS TO MEET THE REQUIREMENTS SPECIFIED IN RSA 430:51-57 AND AGR 3900, RELATING TO INVASIVE SPECIES.
 - 16.) CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE WATER QUALITY FROM ANY RUN OFF DURING THE CONSTRUCTION PROCESS, IN ACCORDANCE WITH ENV-WQ 1507, IN ORDER TO PREVENT VIOLATIONS OF THE STORM WATER QUALITY STANDARDS.
 - 17.) CONTRACTOR MAY USE SILT FENCE, SILT SOXX OR MULCH BERM FOR PERIMETER CONTROL. DOUBLE LAYER OF PERIMETER CONTROL IS REQUIRED WITHIN 50' WETLAND BUFFER.



REVISION	DATE	DESCRIPTION

PARKING LOT GRADING PLAN

LAND OF MONARCH SCHOOL OF NEW ENGLAND 105 EASTERN AVE ROCHESTER, NH

TAX MAP 012, LOT 20

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD BARRINGTON, NH 03825 (603) 332-2863

SCALE : 1 IN. EQUALS 10 FT.

DATE : MAY 23, 2022

FILE NO. : DB 2022-006

SHEET 4 OF 7

DESIGN NOTES:

1. POROUS ASPHALT PAVEMENT WILL CONFORM TO UNHSC (2007b) SPECIFICATIONS AS UPDATED BY UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS (DATED: SEPTEMBER 2016).
2. THE FILTER COURSE WILL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES AND CONSIST OF NHDOT (2016) SAND, ITEM 304.1 PER THE NH STORMWATER MANUAL.
3. SEE CROSS SECTIONS FOR DETAILS.
4. SEE STORMWATER SYSTEM OPERATIONS AND MAINTENANCE PLAN, DATED MAY 23, 2022 FOR MAINTENANCE REQUIREMENTS.

REFERENCE:

1. NH STORMWATER MANUAL: VOLUME 2, SECTION 4E PERMEABLE PAVEMENT.
2. UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS, FEBRUARY 2014, REVISED SEPTEMBER 2016, UNIVERSITY OF NEW HAMPSHIRE STORMWATER CENTER, DURHAM, NH 03824-3534.
3. POROUS ASPHALT PAVEMENT FOR STORMWATER MANAGEMENT, THE UNH STORMWATER CENTER.

GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.

CHOKER COURSE *	
SIEVE SIZE	% PASSING BY WEIGHT
1 1/2"	100
1"	95 - 100
1/2"	25 - 60
# 4	0 - 10
# 8	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #57 - AASHTO

FILTER COURSE *	
SIEVE SIZE	% PASSING BY WEIGHT
3/4"	100
# 4	70 - 100
# 200	0 - 8**

* EQUIVALENT TO MODIFIED NHDOT 304.1 - SECTION 304 OF NHDOT NHDOT STANDARD SPECIFICATIONS
** LESS THAN 4% FINES

FILTER BLANKET COURSE *	
SIEVE SIZE	% PASSING BY WEIGHT
1 1/2"	100
3/8"	95 - 100
# 4	22 - 55
# 8	0 - 10

* EQUIVALENT TO STANDARD WASHED STONE - SECTION 702 OF NHDOT NHDOT STANDARD SPECIFICATIONS

RESERVOIR COURSE *	
SIEVE SIZE	% PASSING BY WEIGHT
2 1/2"	100
2"	80 - 100
1 1/2"	35 - 70
1"	0 - 15
1/2"	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #3 - AASHTO

POROUS ASPHALT MIX DESIGN CRITERIA	
SIEVE SIZE	% PASSING BY WEIGHT
3/4"	100
1/2"	85 - 100
3/8"	55 - 75
# 4	10 - 25
# 8	5 - 12
# 200	2 - 4

BINDER CONTENT (AASHTO T164)

AIR VOID CONTENT (AASHTO D6752)

DRANDOWN (AASHTO D6360) ≤ 0.3%

RETAINED TENSILE STRENGTH (AASHTO D6360) ≥ 80%

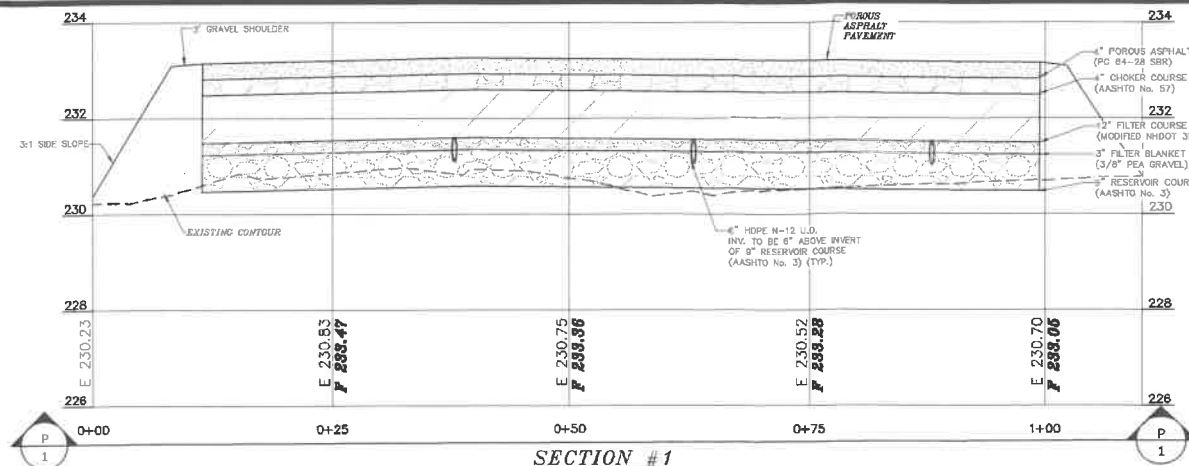
CANTABRO ABRASION ≤ 20% TEST (UNAGED)

CANTABRO ABRASION ≤ 30% TEST (7 DAYS)

POROUS ASPHALT PAVEMENT

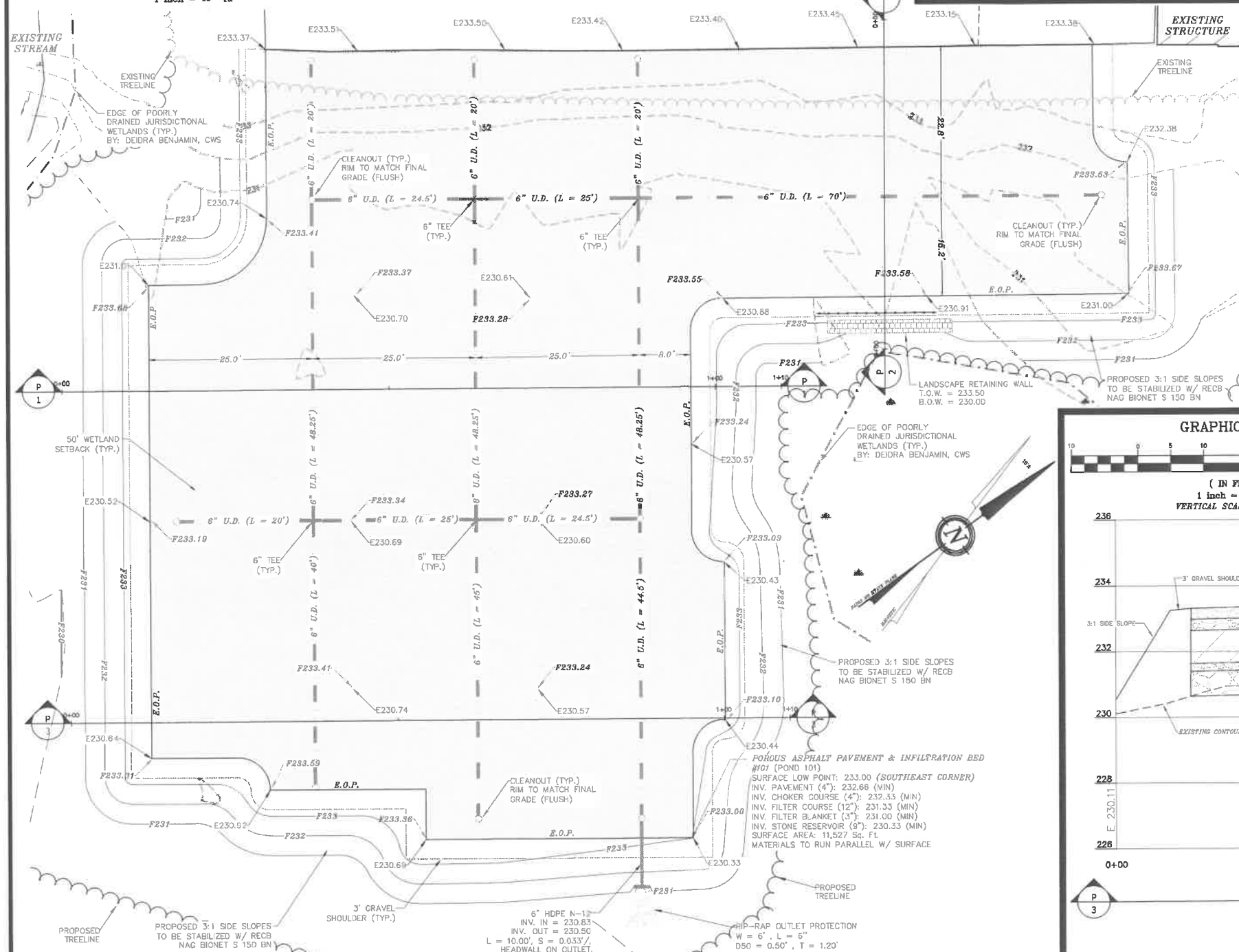
NOT TO SCALE

EXISTING POROUS ASPHALT PARKING LOT



SECTION #1

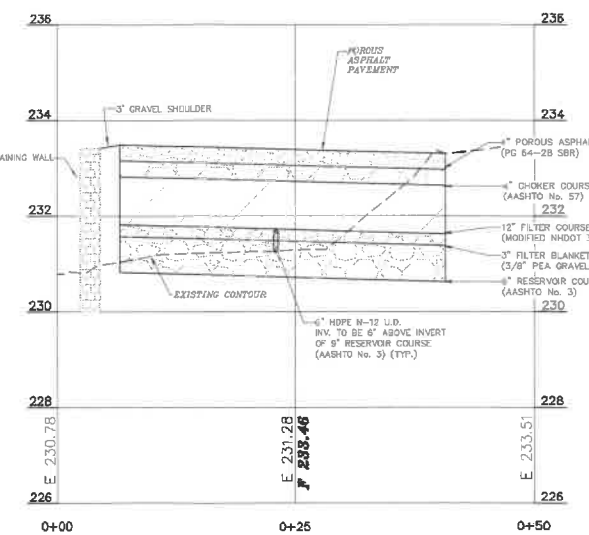
TOTAL SECTION DEPTH = 32"
TOTAL SECTION REQUIRED = 31.2"
(65% OF FROST DEPTH)
FROST DEPTH = 48" (UNHSC)



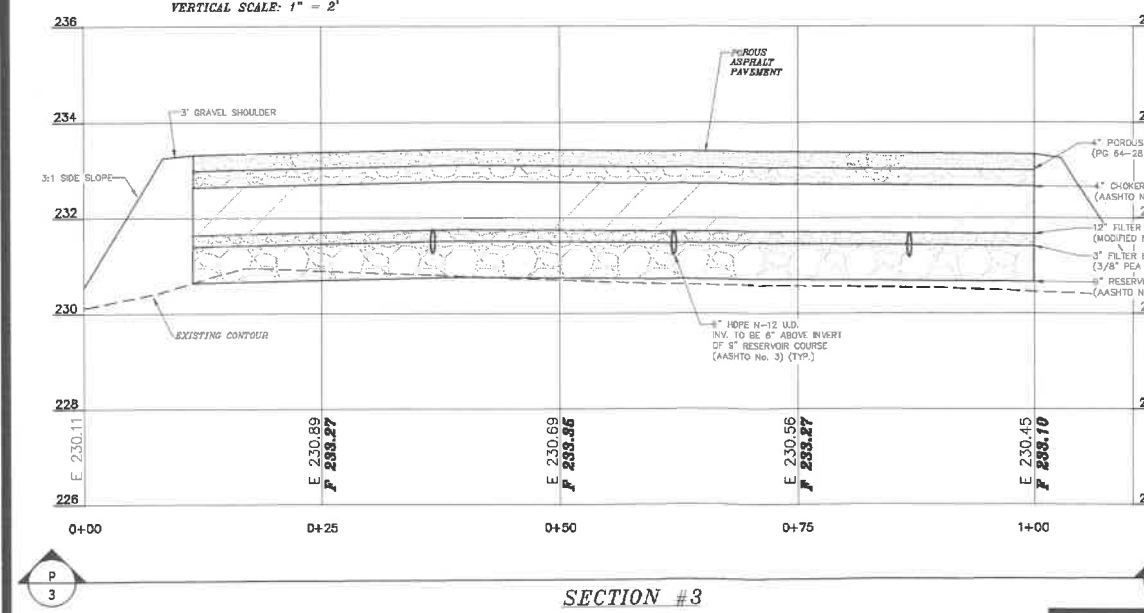
GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.
VERTICAL SCALE: 1" = 2'



SECTION #2



SECTION #3

P-101

DESCRIPTION

DATE

REVISION

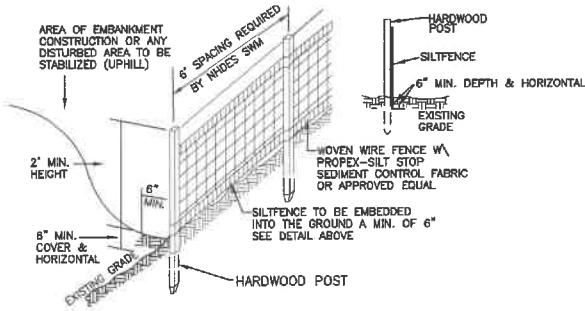
POROUS ASPHALT PAVEMENT
LAND OF NEW ENGLAND
MONARCH SCHOOL OF NEW ENGLAND
105 EASTERN AVE
ROCHESTER, NH
TAX MAP 0712, LOT 20

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE: 1 IN. EQUALS 10 FT.
DATE: MAY 23, 2022
FILE NO.: DB 2022-006



SHEET 5 OF 7

E1



SILT FENCE CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 6' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF. SEE MAINTENANCE NOTE BELOW, REMOVAL OF SEDIMENT REQUIRED AT A DEPTH OF 6-INCHES.
4. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
5. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER.
6. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
7. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, SILT FENCE, PAGE 90.

SILT FENCE MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH SIX-INCHES IN DEPTH.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE DETAIL
NOT TO SCALE

E5

DEFINITION OF STABLE:

PER ENV-WQ 1500 ALTERATION OF TERRAIN

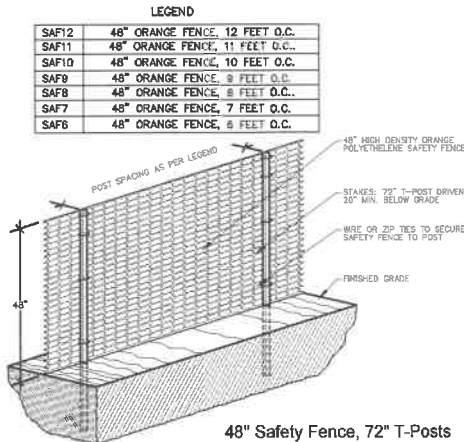
1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
2. A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED.
3. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
4. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ADDITION STABILIZATION NOTES:

5. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.
6. DISTURBED SOIL AREAS SHALL BE EITHER TEMPORARILY OR PERMANENTLY STABILIZED. IN AREAS WHERE FINAL GRADING HAS NOT OCCURRED, TEMPORARY STABILIZATION MEASURES SHOULD BE IN PLACE WITHIN SEVEN (7) CALENDAR DAYS FOR EXPOSED SOIL AREAS THAT ARE WITHIN ONE HUNDRED (100) FEET OF A SURFACE WATER BODY OR A WETLAND AND NO MORE THAN 14 CALENDAR DAYS FOR ALL OTHER AREAS. PERMANENT STABILIZATION SHOULD BE IN PLACE WITHIN THREE (3) CALENDAR DAYS FOLLOWING COMPLETION OF FINAL GRADING OF EXPOSED SOIL AREAS.

E2

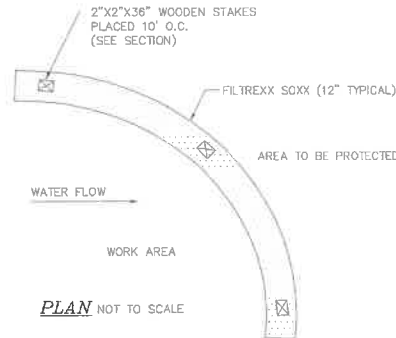
CONSTRUCTION SAFETY FENCE
NOT TO SCALE



48" Safety Fence, 72" T-Posts

1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY FENCE 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

E6



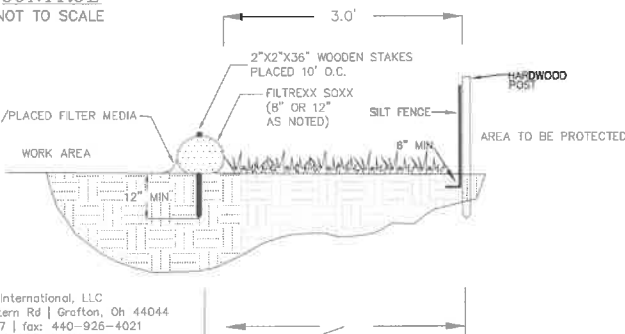
PLAN NOT TO SCALE

NOTES

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. SILTSOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
5. SILTSOXX COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATION.
6. FILTREXX SOXX IS A REGISTERED TRADEMARK OF FILTREXX INTERNATIONAL, LLC.
7. SILT FENCE IS NOT A SUBSTITUTION FOR SILT SOXX AND ANY EQUAL SUBSTITUTION TO BE APPROVED.
8. TO BE CONSTRUCTED IAW FILTREXX, SECTION 1: EROSION & SEDIMENT CONTROL (PAGE 323) - CONSTRUCTION ACTIVITIES, SWPPP CUT SHEET: FILTREXX SEDIMENT CONTROL.

FILTREXX SEDIMENT
CONTROL
NOT TO SCALE

Filtrex International, LLC
35481 Grafton Eastern Rd | Grafton, Oh 44044
440-926-2607 | fax: 440-926-4021
WWW.FILTREXX.COM
OR APPROVED EQUAL



NOTE: FOR AREAS REQUIRING DOUBLE PERIMETER CONTROL WITHIN 50' OF JURISDICTIONAL WETLANDS AND NOT FOR ALL SILT SOXX APPLICATIONS, THIS DUPLICATION MAY BE SPECIFIED AS 12" SILT SOXX OR ORANGE CONSTRUCTION FENCE AS NOTED.

SECTION NOT TO SCALE

TOPSOIL STOCKPILE MOUND
NOT TO SCALE

TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, SOIL STOCKPILE PRACTICES, PAGE 46.

E10

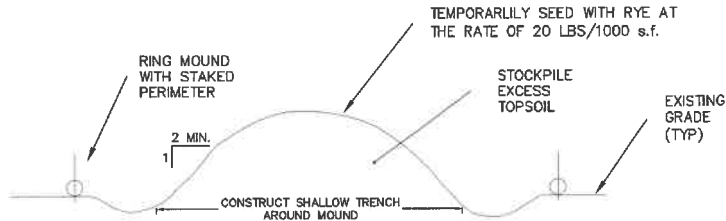
TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES			
d50 SIZE--	0.5 FEET	6 INCHES	
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO	
100%	9	12	
85%	8	11	
50%	6	9	
15%	2	3	

E8

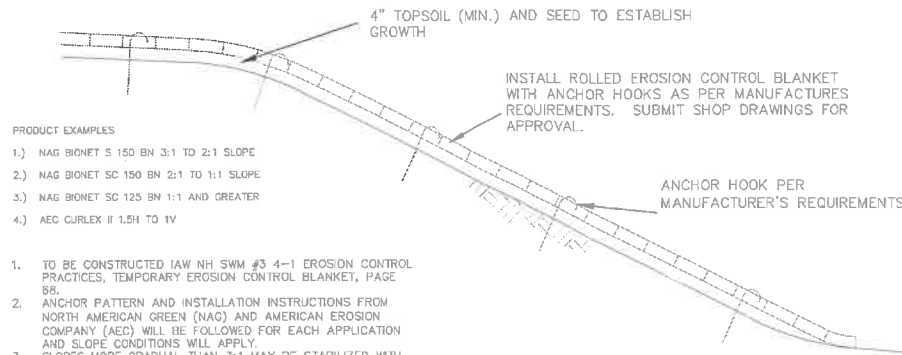
CONSTRUCTION SEQUENCE:

1. CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED, RELOCATE ANY PROJECT T.B.M.
2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS SPECIFIED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL LAND DISTURBANCE AND MUST BE REVIEWED AND APPROVED BY THE COMMUNITY SERVICES DEPARTMENT.
3. EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. TEMPORARY DIVERSIONS MAY BE REQUIRED. POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES MUST BE INITIATED AND STABILIZED EARLY IN THE PROCESS.
4. CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY
5. CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED
6. CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY
7. START BUILDING CONSTRUCTION
8. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
9. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 60 DAYS BEFORE BEING STABILIZED. DAILY, OR AS REQUIRED, ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES.
10. CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
11. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. ALL SWPPP INSPECTIONS MUST BE CONDUCTED BY A QUALIFIED PROFESSIONAL, SUCH AS A PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSWI), OR A CERTIFIED PROFESSIONAL IN STORM WATER QUALITY (CPSWQ). INSPECTION REPORTS SHALL BE SUBMITTED TO THE COMMUNITY SERVICES DEPARTMENT.
12. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
13. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.
14. SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
15. FINISH PAVING ALL ROADWAYS.

E9



E11



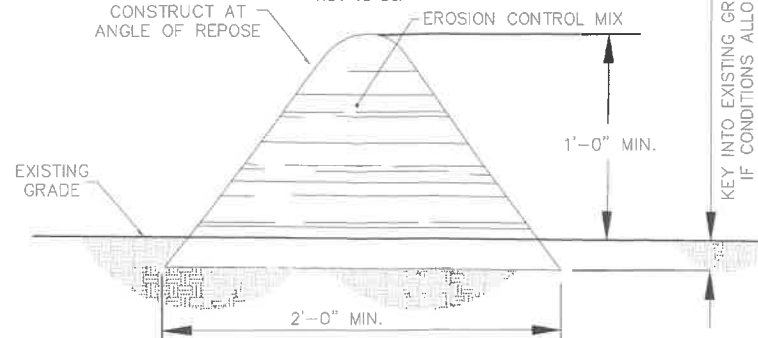
- PRODUCT EXAMPLES
- 1.) NAG BIONET S 150 BN 3:1 TO 2:1 SLOPE
 - 2.) NAG BIONET SC 150 BN 2:1 TO 1:1 SLOPE
 - 3.) NAG BIONET SC 125 BN 1:1 AND GREATER
 - 4.) AEC CUREX II 1.5H TO 1V

1. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, TEMPORARY EROSION CONTROL BLANKET, PAGE 88.
2. ANCHOR PATTERN AND INSTALLATION INSTRUCTIONS FROM NORTH AMERICAN GREEN (NAG) AND AMERICAN EROSION COMPANY (AEC) WILL BE FOLLOWED FOR EACH APPLICATION AND SLOPE CONDITIONS WILL APPLY.
3. SLOPES MORE GRADUAL THAN 3:1 MAY BE STABILIZED WITH VEGETATION OR HEC-2 (HYDRAULICALLY APPLIED EROSION CONTROL MIX)/BONDED FIBER MATRIX. HOWEVER THE ENGINEER RESERVES THE RIGHT TO REQUEST INCREASED RECS TO BE INSTALLED ON ANY SLOPE.
4. UNDER SOME CONDITIONS, E.G. WINTER CONSTRUCTION OR RAIN EVENT SATURATION, AREA INTENDED FOR VEGETATION STABILIZATION MAY REQUIRE HAY MULCH OR R.E.C.B. STABILIZATION

ROLLED EROSION CONTROL BLANKET (RECB)
SLOPE STABILIZATION DETAIL
NOT TO SCALE

E4

EROSION CONTROL MIX BERM
NOT TO SCALE



EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:

1. BERMS SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE BERM.
2. THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
3. THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
4. SUBJECT TO (E), BELOW, THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100% DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS.
5. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
6. THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
7. THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.
8. THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
9. THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
10. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 106.

E7

TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
4. ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 45 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
5. SILT FENCES AND PERIMETER BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
6. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
7. PER THE EPA CGP REQUIREMENTS THERE WILL BE REPORTS OF THE EROSION CONTROL INSPECTIONS IAW SWPPP PREPARED BY BS&E. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.25" OR GREATER RAIN EVENT.
8. DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
9. DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
10. DRIVEWAYS AND CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
11. STABILIZATION MEANS:
 - 11.1. A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED.
 - 11.2. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED.
 - 11.3. EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
12. THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
13. THE NHDES STORMWATER MANUAL, IN THREE VOLUMES, DATED DECEMBER 2008, IS A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN. (NH SWM)

EROSION & SEDIMENT CONTROL DETAILS
MONARCH SCHOOL OF NEW ENGLAND
105 EASTERN AVE
ROCHESTER, N.H.
TAX MAP 07/2, LOT 20

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : AS SHOWN
DATE : MAY 23, 2022
FILE NO. : DB 2022-006



E-101

SHEET 6 OF 7

