NONRESIDENTIAL SITE PLAN APPLICATION

City of Rochester, New Hampshire

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

Date: October 9, 2018 Is a conditional use needed? Yes:____ No: X Unclear:____
(If so, we encourage you to submit an application as soon as possible.)

Property information

Tax map #: 216; Lot #('s): 002 + 003; Zoning district: GRD

Property address/location: 22 Farmington Rd.

Name of project (if applicable): _____

Size of site: ~~2.97~~ 2.56 acres; overlay zoning district(s)? _____

Property owner

Name (include name of individual): David S. Thayer

Mailing address: PO Box 248, Farmington, NH 03835

Telephone #: 332-3270 Email: dsthayer@worldpath.net

Applicant/developer (if different from property owner)

Name (include name of individual): David S. Thayer

Mailing address: PO Box 248, Farmington, NH 03835

Telephone #: 603-332-3270 Email: dsthayer@worldpath.net

Engineer/designer

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

Mailing address: 335 Second Crown Point Rd., Barrington, NH 03825

Telephone #: 332-2863 Fax #: 335-4623

Email address: K.Berry@BerrySurveying.com Professional license #: 14243

Proposed activity (check all that apply)

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

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

(Continued *Nonresidential Site Plan* application Tax Map: 216 Lot: 002 + 003 Zone GRD)

Describe proposed activity/use: Construction of a 10,960 SF building for archery recreation

Describe existing conditions/use (vacant land?): Existing retail shop

Utility information

City water? yes ___ no X ; How far is City water from the site? Across Route 11

City sewer? yes X no ___; How far is City sewer from the site? 0'

If City water, what are the estimated total daily needs? N/A gallons per day

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

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

Where will stormwater be discharged? To existing wetlands through an existing rain garden.

Building information

Type of building(s): Concrete, wood and steel structure.

Building height: _____ Finished floor elevation: 254.50

Other information

parking spaces: existing: 15 total proposed: 55 ; Are there pertinent covenants? Existing Cross Easements

Number of cubic yards of earth being removed from the site 16,000

Number of existing employees: 6 ; number of proposed employees total: 9

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

Wetlands: Is any fill proposed? No ; area to be filled: _____; buffer impact? _____

Proposed *post-development* disposition of site (should total 100%)

	Square footage		% overall site	
	Lot 2	Lot 3	Lot 2	Lot 3
Building footprint(s) – give for each building	6,150	10,960	5.5	8.5
Parking and vehicle circulation	21,075	16,230	18.9	12.6
Planted/landscaped areas (excluding drainage)	0	3,260	0	2.5
Natural/undisturbed areas (excluding wetlands)	78,144	66,395	70.0	51.4
Wetlands	549	13,996	0.5	10.8
Other – drainage structures, outside storage, etc.	5,663	18,351	5.1	14.2
			100.0%	100.0%

(Continued *Nonresidential Site Plan* application Tax Map: 216 Lot: 002 + 003 Zone GRD)

Comments

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

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: David Penn

Date: 10-9-18

Signature of applicant/developer: _____

Date: 10-9-18

Signature of agent: _____

Date: 10-9-18

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: David Penn

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: Coyote Creek Outfitters Map: 216 Lot: 002 Date: 10/9/18

Applicant/agent: Coyote Creek Outfitters David S Thayer Signature: Christopher R. Berry (Agent)

(Staff review by: _____ Date: _____)

General items

	Yes	No	N/A	Waiver Requested	Comments
22 sets completed application	X				
Total application fee	X				
22 sets letters of intent	X				
3 sets of full-size plans	X				
22 sets of 11 X 17 reductions	X				
Completed abutters list	X				
Copy of existing covenants, easements, deed restrictions	X				
Plan Information Basic information including: • Title sheet • Name of Project • Date • North arrow • Scale • Legend • Revision block • Vicinity sketch -not less than 1" = 1,000'	X				
Name and address of developer/applicant	X				
Name, stamp, and NH license # of land survey, engineer, and/or architect	X				
City tax map & lot #'s	X				
Notation on plans: "For more information about this site plan contact…."	X				

General items Continued

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

Zoning

Zoning designations of subject tract and in vicinity of tract	X				
Zoning requirements for district: • frontage • lot dimensions/density • all setbacks • lot coverage	X				
Zoning overlay districts	X				

Existing Topographic Features:

Contour lines a (not to exceed two-foot Intervals, except on steep slopes) and spot elevations	X				
Soil types and boundaries	X				
Soil test pit locations, profiles, and Depth to water table and ledge	X				
Percolation test locations and results	X				

Existing Topographic Features Continued:

	Waiver

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

Building Information

Existing buildings/structures including square footage and use	X				
Proposed building/structures including • square footage • first floor elevation • use • # bedrooms per unit if residential	X				
Elevation drawing of proposed buildings and structures as follows: • Showing all four sides • Drawn to scale with dimensions • Showing exterior materials • Showing exterior colors	X				

Circulation and Parking Plans

Existing and proposed driveways and access points including: • Width of opening • Turning radii • Cross section of driveway	X				
Curbing & edge treatment	X				
Traffic control devices, if appropriate:	X				

Circulation and Parking Plans Continued: **Waiver**

	Yes	No	N/A	Requested	Comments
Number of parking spaces • required by ordinance • proposed	X				
Parking layout and dimensions of spaces	X				
Handicap spaces	X				
Loading area			X		
Pedestrian circulation plan (including existing sidewalks in vicinity, if any)	X				
Bicycle rack, if appropriate			X		
Buffers, landscaping & screening	X				
Snow storage areas/plan	X				

Utilities

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

Water lines/well (with protective radius)	X				
Sewer lines/septic and leaching areas	X				
Pump stations			X		
Stormwater management system: pipes, culverts,, catch basins detention/ retention basins, swales, rip rap, etc.	X				
Fire hydrant location(s) and details			X		
Electric, telephone, cable TV (underground or overhead)	X				
Gas lines			X		
Fire alarm connections			X		
Treatment of solid waste (dumpsters?)	X				
Handing of oil, grease, chemicals hazardous materials/waste			X		

Landscaping Plan

Waiver

	Yes	No	N/A	Requested	Comments
Demarcation of limits of construction, clear delineation of vegetation to be saved, and strategy for protecting vegetation	X				
Proposed ground cover, shrubbery, and trees including: • botanical and common names • locations and spacing • total number of each species • size at installation	X				
Planting plan (size of holes, depth of planting, soil amendments, etc.)	X				
Irrigation: system? soaker hose? Manual? underground, etc.	X				
Protection of landscaping from vehicles (Curb stops, berm, railroad ties, etc)	X				
Specification all finished ground surfaces and edges (greenspace, mulch, asphalt, concrete, etc.)	X				
Fencing/screening	X				

Signage

Location and type of signs: • Attached to building • Freestanding • Directional, if appropriate			X		
Dimensions of signs: • Height • Area • Setback			X		
Elevation drawings with colors & materials			X		
Type of Illumination, if proposed	X				

Outdoor Lighting

Waiver

	Yes	No	N/A	Requested	Comments
Locations	X				
Height of fixtures	X				
Wattage	X				
Type of light (high pressure sodium, etc)	X				
Design/cut sheets of fixtures	X				
Illumination study, if appropriate	X				
Other Elements					
Traffic study, if appropriate			X		Included with original application
Drainage study with calculations, storm Water impact analysis, and mitigation plan	X				
Grading plan (including finish grades)	X				
Earth being removed from site(in cubic yards)	X				
Erosion and sedimentation plan	X				
Proposed covenants, easements, And deed restrictions, if any			X		
Fiscal impact study, if requested			X		

Additional Comments:

BERRY SURVEYING & ENGINEERING
335 Second Crown Point Road
Barrington, NH 03825
Phone: (603) 332-2863
Fax: (603) 335-4623
www.BerrySurveying.Com

October 9, 2016

City of Rochester Planning Board
Attention: Seth Creighton Chief Planner
33 Wakefield Street
Rochester, NH 03867

Re: Amended Site Plan Review
Coyote Creek Outfitters, LLC
22 Farmington Road
Rochester, NH

Mr. Chairman and Members of the Rochester Planning Board,

On behalf of David Thayer, Managing Member of Coyote Creek, LLC, Berry Surveying & Engineering submits for Planning Board approval an Amended Site Plan Application and Amended Site Plan for the construction of a revised building, parking and travel ways on an existing approved site plan.

The proposed building will be constructed on Tax Map 216, Lot 3, and will contain approximately 10,960 square feet. A new parking lot will be constructed around the proposed building to allow for customer and employee parking. Sidewalks and a 5' planting strip will also be constructed along the building in order to allow for safe pedestrian traffic and provide a buffer between the parking lot and building.

The existing Coyote Creek building is served by an on-site well and municipal sewer, which will remain. A water line will be run from the existing Coyote Creek building to the proposed building. An existing on site sewer stub will be utilized to service the proposed building as well, as planned for a permitted as part of the prior approval.

Due to a severe elevation change from the front to the rear of the property, a retaining wall or ledge face will be required behind the proposed building on Lot 3. The submitted plans demonstrate the installation of a wall with 1:1 grading on top of the wall, however, the applicant may choose to manage the change in elevation by using existing features in the form of a ledge face. An investigation of the structural integrity of the existing ledge material in the area of the wall is needed before making this determination, and will be completed before construction of the retaining system.

All necessary drainage and stormwater treatment systems are already in place. The existing rain garden and packet pond are already stabilized and will be used to treat the runoff generated from the existing building and the proposed building. The rain garden and pocket pond were originally designed to withstand the storm water runoff from both buildings and parking areas, so no additions will be needed. A treatment swale will be added along the toe of the proposed retaining wall, in order to capture and divert the runoff to the existing rain garden and pocket pond. An updated analysis is enclosed.

All necessary erosion and sediment control measures will be taken to ensure that no sediment runs off onto abutting lots or in the existing rain gardens. A construction entrance will be installed in the proposed parking lot to maintain sediment and prevent tracking onto the existing parking lot. Inlet protection and check dams will be utilized to slow maintain sediment within the swales and the catch basins.

As noted before, this site plan application is for an amended site review, not a new application. Minor changes have been made to the previously approved site plan, with regards to building and parking lot orientation.

Thank you for your time and attention to this matter, and we look forward to working with you on this project.

Berry Surveying & Engineering

Christopher R. Berry
Principal, President

BERRY SURVEYING & ENGINEERING
148 Second Crown Pt. Rd., Barrington, NH 03825
(603) 332-2863 / (603) 335-4623 FAX
www.BerrySurveying.Com

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City of Rochester Planning Board
33 Wakefield Street
Rochester, NH 03867

October 9, 2018

RE: Amended Site Plan Review
Coyote Creek Outfitters, LLC
22 Farmington Road
Rochester, NH

Mr. Chairman and Members of the Rochester Planning Board,

With pursuant to the Site Review standards 7 following waiver is hereby requested.

1. **Identification of Waiver Request**: Minimum of 24' aisle width adjacent to parking arrays.
   - Proposed aisle width of 22'.

2. **Explanation:**

The applicant is proposing to amend the previously accepted site plan in order to re-orientate the proposed building and adjacent parking. The proposed building will remain to be used as recreation space, however the layout of said building has changed the type of recreation to be utilized in the building (archery). Given the location of the existing rain garden and the steep slope, the size of the parking aisle had to be reduced in order to maintain the rain garden slopes and the swale that is abutting the block retaining wall and ledge face.

3. **Waiver Justification**:

a. Granting the waiver will properly carry out the purpose and intent of the regulations. The intent of having a minimum aisle width of 24' is to ensure that vehicles and emergency response vehicles have enough room to navigate the parking areas. A truck turning template is included in the plan set to show that the emergency response vehicles are able to access the site and have enough room to navigate around the proposed building. Furthermore, the rear of the building will be used mostly by employees, thus reducing the overall traffic at that location. The front of the building, where the main entrance is and the more likely area to be utilized for parking, has an aisle width of 24'.

b. Strict conformity to the regulations would pose an unnecessary hardship to the applicant. Strict conformity to the regulations would require the applicant to move the building toward the steep slope, which would require a significant increase in excavation and material removal at that location. The proposed parking lot cannot be widen toward Route 11, due to the existing rain garden and drainage features, as well as wetlands.

Respectfully Submitted,
BERRY SURVEYING & ENGINEERING

Christopher R. Berry, President

TABLE OF CONTENTS:

PROPOSED SITE PLAN REVIEW FOR COYOTE CREEK OUTFITTERS 22 FARMINGTON ROAD ROCHESTER, N.H. TAX MAP 216, LOTS 2 & 3

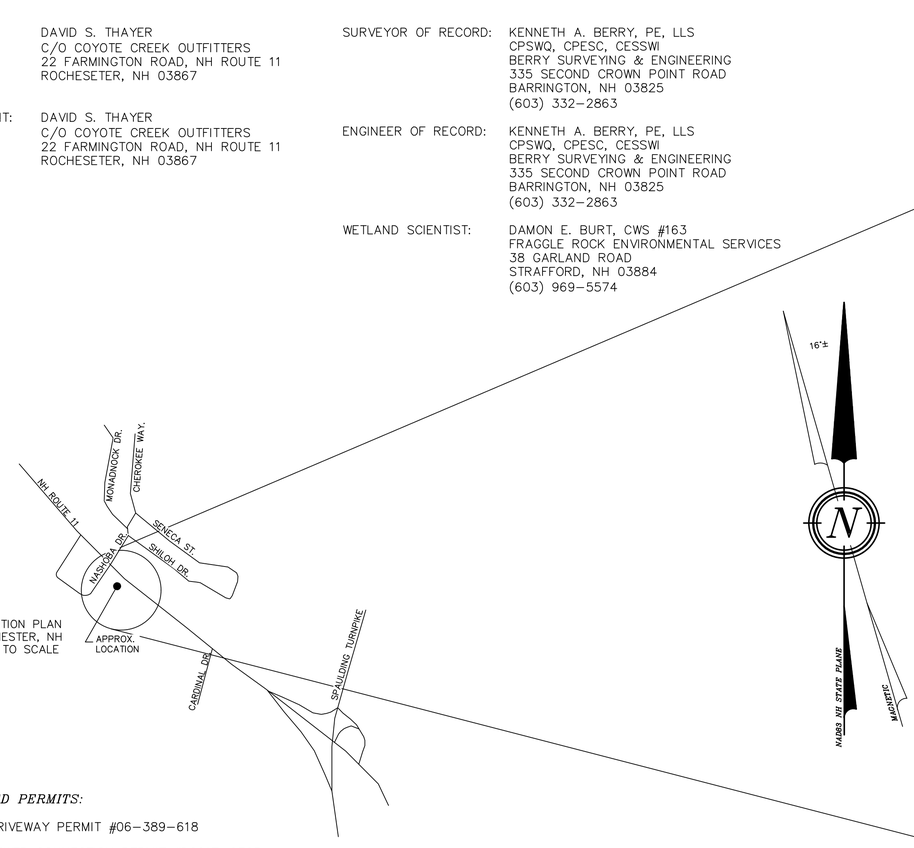
OWNER: DAVID S. THAYER
C/O COYOTE CREEK OUTFITTERS
22 FARMINGTON ROAD, NH ROUTE 11
ROCHESETER, NH 03867

APPLICANT: DAVID S. THAYER
C/O COYOTE CREEK OUTFITTERS
22 FARMINGTON ROAD, NH ROUTE 11
ROCHESETER, NH 03867

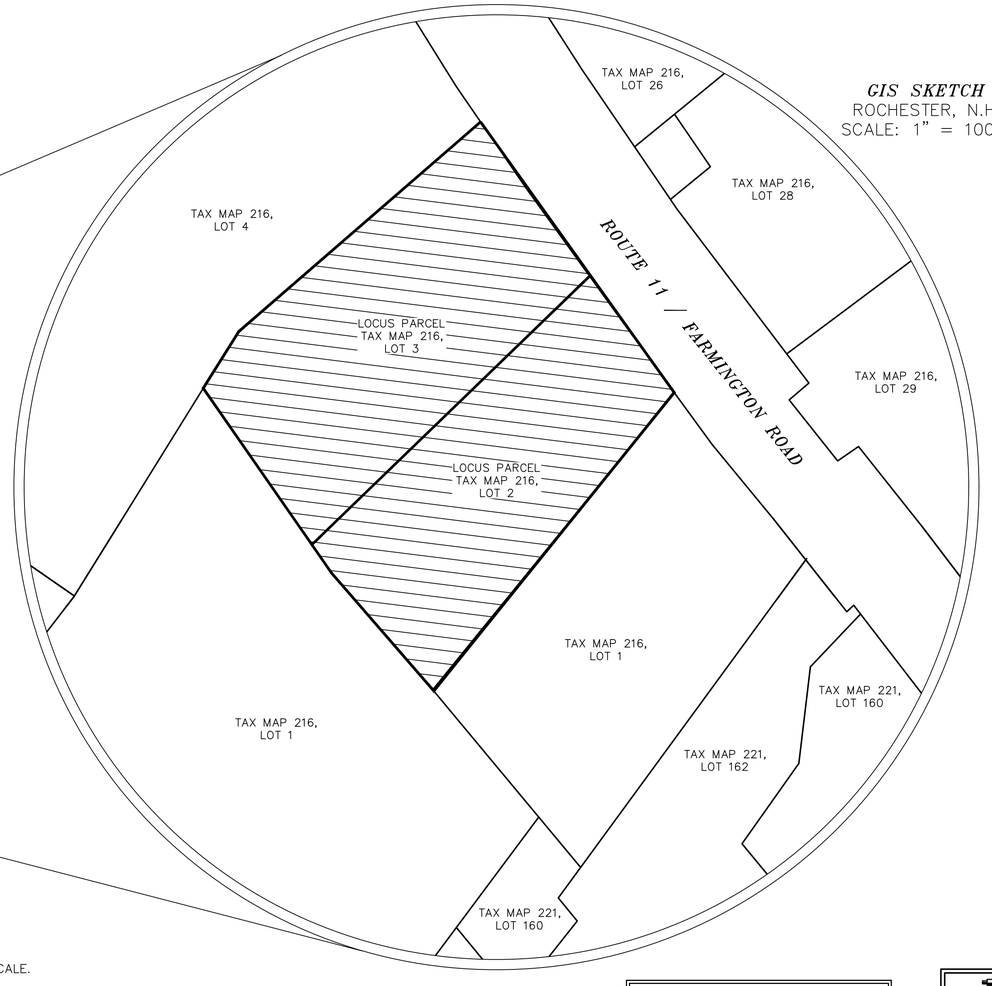
SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
CPSWQ, CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332–2863

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: DAMON E. BURT, CWS #163
FRAGGLE ROCK ENVIRONMENTAL SERVICES
38 GARLAND ROAD
STRAFFORD, NH 03884
(603) 969–5574



LOCATION PLAN
ROCHESTER, NH
NOT TO SCALE



GIS SKETCH
ROCHESTER, N.H.
SCALE: 1" = 100'±

REQUIRED PERMITS:

NHDOT DRIVEWAY PERMIT #06–389–618

NHDES SEWER CONNECTION PERMIT #D2017–0305

EPA NPDES ID #NHR100050

BERRY SURVEYING & ENGINEERING HAS PREPARED THE SWPPP AND THE FILING OF THE NOTICE OF INTENT WHICH IS REQUIRED BY THE EPA. A CAPABLE AND KNOWLEDGEABLE PERSON IS TO DO ON–SITE EROSION CONTROL INSPECTIONS PER THE NOTICE OF INTENT. BERRY SURVEYING & ENGINEERING CAN PROVIDE THIS SERVICE IF REQUESTED.

A PRE–CONSTRUCTION MEETING IS REQUIRED BEFORE CONSTRUCTION ACTIVITIES TAKE PLACE. THOSE PRESENT SHOULD INCLUDE THE OWNER OF RECORD, DESIGN ENGINEER, CONSTRUCTION MANAGER, CITY ENGINEER OR DESIGNEE, AND HEAD OF THE PLANNING DEPARTMENT OR DESIGNEE.

NOTE:

BERRY SURVEYING & ENGINEERING HAS PREPARED AN INSPECTION & MAINTENANCE MANUAL AS PART OF THIS PROJECT'S 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 CEO AS DIRECTED IN THE MANUAL.

GENERAL PLAN SET NOTES:

1.) 11x17" PLANS ARE HALF THE PUBLISHED SCALE.

2.) SCALE OF PLANS MAY BE ALTERED BY SCANNING AND PHOTOCOPYING.

3.) ALL PLANS ARE CONSIDERED TO BE NOT FOR CONSTRUCTION UNLESS THEY CONTAIN THE APPROVAL STAMP OF THE CITY OF ROCHESTER.

4.) FOR MORE INFORMATION ABOUT THIS SUBDIVISION, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867, (603) 335–1338.

FINAL APPROVAL
BY
ROCHESTER PLANNING BOARD
CERTIFIED BY : _____
DATE : _____

STATE OF NEW HAMPSHIRE — No. 805 — KENNETH A. BERRY — LICENSED LAND SURVEYOR — SIGNATURE

REVISION	DATE	DESCRIPTION

PROPOSED SITE PLAN
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : AS–NOTED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 – 057

STATE OF NEW HAMPSHIRE — KENNETH A. BERRY No. 14243 LICENSED PROFESSIONAL ENGINEER

TEST PIT DATA:

TEST HOLES COMPLETED FOR: THAYER/COYOTE CREEK
BY: BERRY SURVEYING & ENGINEERING FEBRUARY 1, 2016

TEST HOLE #1:
0–46" 10 YR 5/6 YELLOWISH BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE, FILL MATERIAL, MANY COBBLES TO 6" THROUGHOUT
46–48" 10 YR 4/4 DARK YELLOWISH BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE, OLD TOPSOIL
48–60" 10 YR 5/6 YELLOWISH BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE
60–65" 10 YR 6/8 BROWNISH YELLOW, FINE SAND, GRANULAR, FRIABLE
65–84" 10 YR 6/2 LIGHT BROWNISH GRAY, SILT LOAM, MASSIVE, FIRM, COMMON AND DISTINCT MOTTLES, MANY COBBLES TO 6" THROUGHOUT

TERMINATED @ 84"
E.S.H.W.T. @ 65"
NO REFUSAL
NO GROUND WATER OBSERVED
ROOTS TO 48"

TEST HOLE #2:
0–24" 10 YR 4/6 DARK YELLOWISH BROWN, STONE, GRANULAR, FRIABLE, FILL SHOT ROCK
2"– 72" 10 YR 7/4 VERY PALE BROWN, COARSE SAND AND GRAVEL, GRANULAR, FRIABLE, NATURAL MATERIAL
72– 84" 10 YR 7/4 VERY PALE BROWN, COARSE SAND AND GRAVEL, GRANULAR, FRIABLE
84– 96" 10 YR 6/2 LIGHT BROWNISH GRAY, SILT LOAM, MASSIVE, FIRM, COMMON AND DISTINCT MOTTLES

MANY COBBLES TO 6" THROUGHOUT
TERMINATED @ 96"
E.S.H.W.T. @ 84"
NO REFUSAL
GROUND WATER OBSERVED @ 8'
ROOTS TO 40"

TEST HOLE #3:

0–48" 10 YR 5/6 YELLOWISH BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE, FILL
48–50" 10 YR 3/3 DARK BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
50–84" 10 YR 5/6 YELLOWISH BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE
84–90" 10 YR 6/2 LIGHT BROWNISH GRAY, SILT LOAM, MASSIVE, FIRM COMMON AND DISTINCT MOTTLES

COBBLES TO 9" THROUGHOUT
TERMINATED @ 90"
E.S.H.W.T. @ 84"
NO REFUSAL
NO GROUND WATER OBSERVED
ROOTS TO 50"

TEST HOLE #4:
0–24" 10 YR 4/6 DARK YELLOWISH BROWN, SHOT ROCK, GRANULAR, FRIABLE, FILL
24–60" 5 YR 5/6 YELLOWISH RED, COARSE SAND AND GRAVEL, GRANULAR, FRIABLE, NATURAL MATERIAL, COBBLES TO 9" THROUGHOUT
60" LEDGE

TERMINATED @ 60"
E.S.H.W.T. NONE FOUND
REFUSAL @ 60", LEDGE
NO GROUND WATER OBSERVED
ROOTS TO 40"

TEST HOLE #5 & 5A:
0–60" MIXED FILL, ORGANIC & MINERAL, FILL
60–72" 10 YR 6/8 BROWNISH YELLOW, FINE SANDY LOAM, GRANULAR, FRIABLE,NATURAL
72–96" 10 YR 5/6 BROWNISH YELLOW COARSE SAND AND GRAVEL, GRANULAR, FRIABLE
96–100" 10 YR 6/2 LIGHT BROWNISH GRAY, SILT LOAM, MASSIVE, FIRM COMMON AND DISTINCT MOTTLES

COBBLES TO 6" THROUGHOUT
TERMINATED @ 100"
E.S.H.W.T. @ 96"
NO REFUSAL
GROUND WATER OBSERVED @ 8'
ROOTS TO 72"

TEST HOLE #6:
0 – 24" 10 YR 6/4 LIGHT YELLOWISH BROWN, STONE, GRANULAR, FRIABLE, SHOT ROCK
24" LEDGE

TERMINATED @ 24"
E.S.H.W.T. NONE FOUND
REFUSAL @ 24", LEDGE
NO GROUND WATER OBSERVED
NO ROOTS OBSERVED

ABUTTERS WITHIN 200':

N/F WISSLER PROPERTIES, LLC.
20 FARMINGTON ROAD
ROCHESTER, NH 03867–4304
TAX MAP 216, LOT 1
S.C.R.D. BOOK 4009, PAGE 573

N/F NORTHGATE INVESTMENT PROPERTIES, LLC
36 FARMINGTON ROAD
ROCHESTER, NH 03867–4236
TAX MAP 216, LOT 4
S.C.R.D. BOOK 1811, PAGE 17

N/F BENNER, ROLAND W. & NANCY T.
1 MONADNOCK DRIVE
ROCHESTER, NH 03867–5164
TAX MAP 216, LOT 26
S.C.R.D. BOOK 4561, PAGE 161

N/F COOK, N. MILES III
23 FARMINGTON ROAD
ROCHESTER, NH 03867
TAX MAP 216, LOT 28
S.C.R.D. BOOK 3379, PAGE 464

N/F CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867
TAX MAP 216, LOT 28–1
S.C.R.D. BOOK 1842, PAGE 417

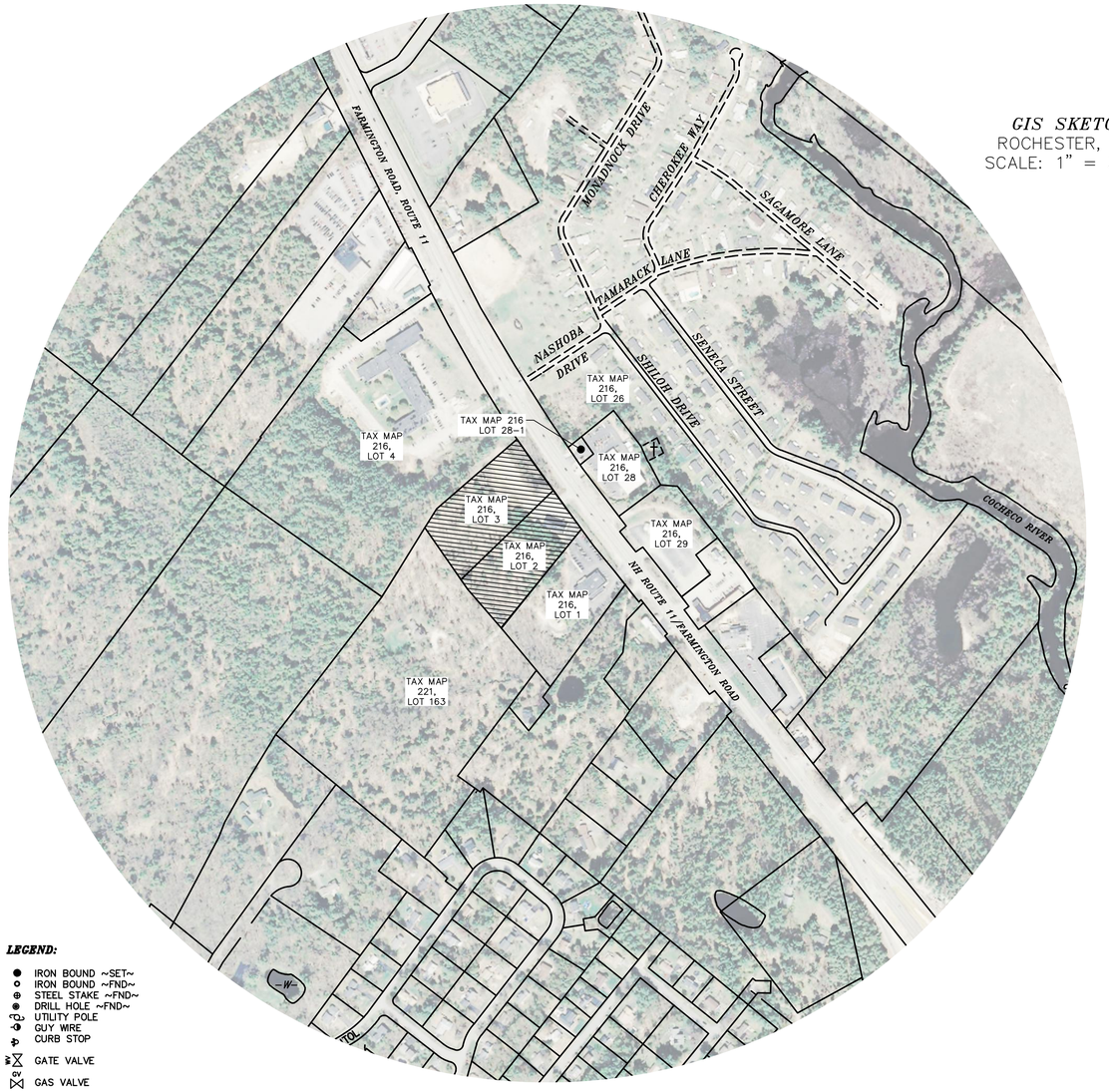
N/F 21 FARMINGTON ROAD, LLC.
549 US HIGHWAY 1 BYPASS
PORTSMOUTH, NH 03801–4131
TAX MAP 216, LOT 29
S.C.R.D. BOOK 4248, PAGE 628

N/F BERANGER, ROBERT & KAREN
20 FARMINGTON ROAD
ROCHESTER, NH 03867–4304
TAX MAP 221, LOT 163
S.C.R.D. BOOK 1035, PAGE 370

16°±

NAD83 NH STATE PLANE

MAGNETIC



GIS SKETCH
ROCHESTER, N.H.
SCALE: 1" = 300'±

LEGEND:

- IRON BOUND ~SET~
- IRON BOUND ~FND~
- STEEL STAKE ~FND~
- DRILL HOLE ~FND~
- UTILITY POLE
- GUY WIRE
- CURB STOP
- GATE VALVE
- GAS VALVE
- FIRE HYDRANT
- CATCH BASIN
- SEWER MAN HOLE
- SINGLE POST SIGN
- TEST PIT
- EASEMENT LINE
- GAS LINE
- WATER LINE
- SEWER LINE
- OVERHEAD UTILITIES
- SOILS LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- R.O.W. LINE
- ABUTTING LOT LINES
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CULVERT W/ FLARED END SECTION (F.E.S.)
- DETAIL SHEET / DETAIL
- PROPOSED & EXISTING TREELINE
- RIP–RAP APRON
- PROPOSED UNDERGROUND UTILITY

ABBREVIATION LEGEND:

E.O.P.	EDGE OF PAVEMENT
C.C.C.	CAST–IN–PLACE CONCRETE CURB
BITUM.	BITUMINOUS
TYP.	TYPICAL
CONC.	CONCRETE
U.G.E.	UNDER GROUND ELECTRIC / UTILITY
F.E.S.	FLARED END SECTION
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
F.D.	FINISHED GRADE
E.G.	EXISTING GRADE
E.T.W.	EDGE OF TRAVELED WAY
T.O.W.	TOP OF WALL
B.O.W.	BOTTOM OF WALL

{ } SSL ( ) ~ {SIZE} SINGLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
{ } DSL ( ) ~ {SIZE} DOUBLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
{ } SSB ( ) ~ {SIZE} SINGLE SOLID W/ BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
{ } SBL ( ) ~ {SIZE} SINGLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
{ } DBL ( ) ~ {SIZE} DOUBLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)

SIGN ID NUMBER	SIGN SIZE (WIDTH x HEIGHT)	SIGN	TEXT DIMENSIONS	NO. OF SIGNS	BACKGROUND	LEGEND	BORDER	POST SIZE & QUANTITY
R1–1	30"x30"	STOP	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	2	RED	WHITE	WHITE	SQUARE (2)
R7–8	12"x18"	RESERVED PARKING	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	2	WHITE	GREEN W/ WHITE SYMBOL ON BLUE	RED	SQUARE (2)
R7–8a	12"x6"	VAN ACCESSIBLE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	2	WHITE	GREEN	GREEN	SQUARE (0)
R8–31	12"x18"	NO PARKING FIRE LANE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	2	WHITE	RED	RED	SQUARE (2)
R6–1R	36"x12"	ONE WAY	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	BLACK W/ WHITE ARROW	BLACK	WHITE	SQUARE (1)
R5–1	30"x30"	DO NOT ENTER	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	RED	WHITE	WHITE	SQUARE (1)

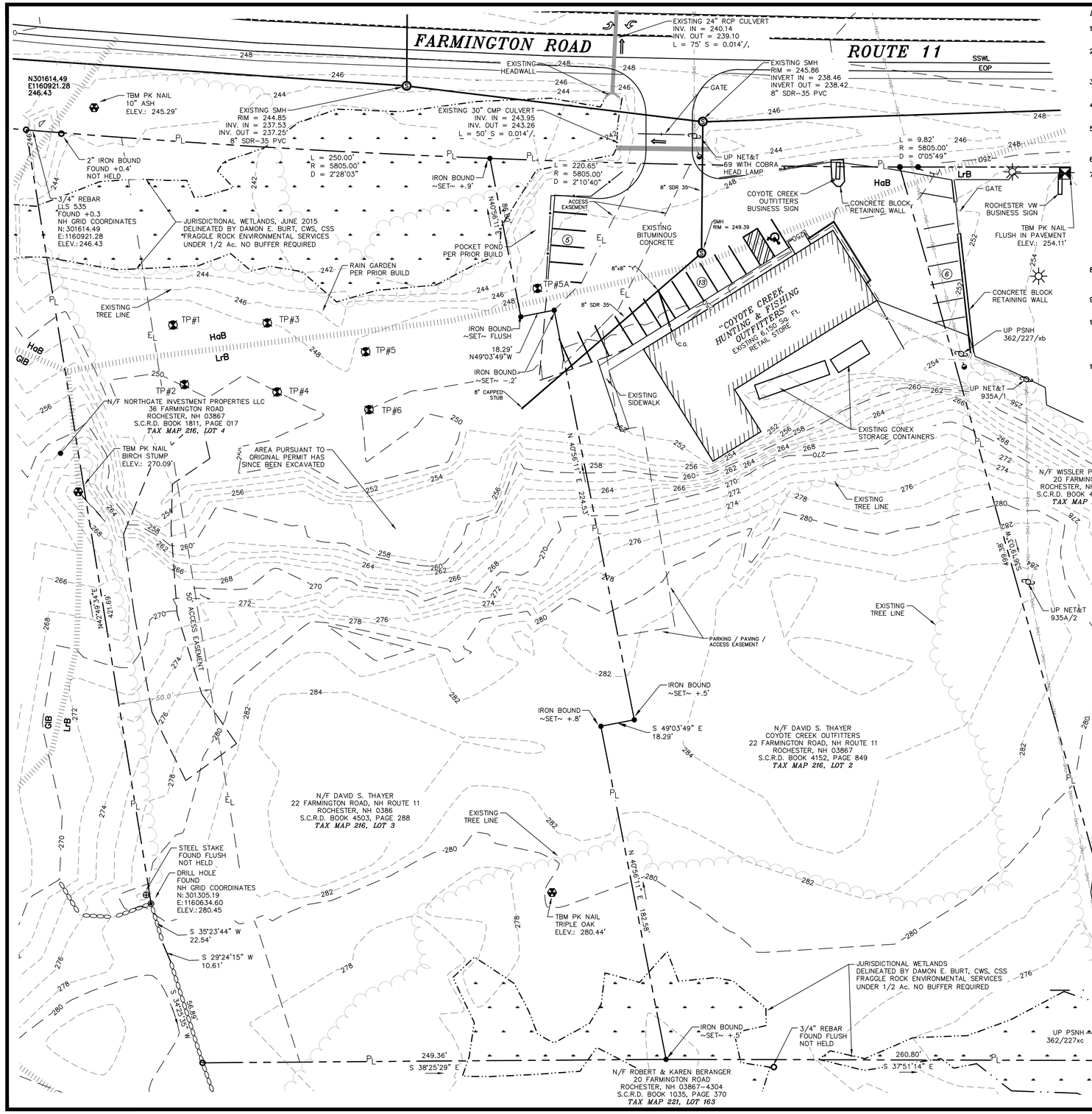
REVISION	DATE	DESCRIPTION

NEIGHBORHOOD PLAN
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : AS–NOTED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 – 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14247
LICENSED
PROFESSIONAL ENGINEER



NOTES:

1.) THE INTENT OF THIS PLAN SET IS TO DEMONSTRATE THE EXISTING CONDITIONS OF TAX MAP 216, LOTS 2 & 3.

2.) CURRENT OWNER: DAVID S. THAYER
22 FARMINGTON ROAD (ROUTE 11)
ROCHESTER, NH 03867

3.) THE PROJECT PARCELS ARE MAP 216, LOTS 2 & 3 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.

4.) THE PROJECT PARCELS CONTAIN 111,634.4 Sq. Ft. (2.56 Ac.) AND 129,173.3 Sq. Ft. (2.97 Ac.) OF LAND, RESPECTIVELY.

5.) TITLE REFERENCE FOR THE PROJECT PARCELS ARE THE STRAFFORD COUNTY REGISTRY OF DEEDS, (S.C.R.D.) BOOK NO. 4152 PAGE NO. 849, AND BOOK NO. 4503, PAGE 288, RESPECTIVELY.

6.) LOCUS PARCEL IS SUBJECT TO EASEMENTS AS NOTED.

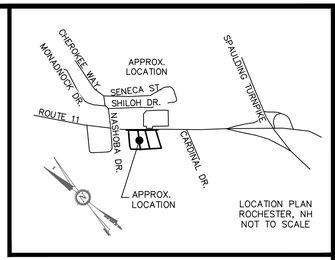
7.) ZONING: GRD –GRANITE RIDGE DEVELOPMENT
SETBACKS:
FRONTAGE: 50 FEET, MINIMUM
MIN. LOT AREA: NO REGULATION
MAX. LOT COVERAGE: NO REGULATION
FRONT SETBACK: NO REGULATION
SIDE SETBACK: NO REGULATION
REAR SETBACK: NO REGULATION
PAVEMENT SETBACKS:
FRONT PAVEMENT: 10 FEET
SIDE PAVEMENT: 5 FEET
REAR PAVEMENT: 10 FEET

8.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN JULY 2015 WITH AN ERROR OF CLOSURE GREATER THAN 1 IN 10,000.

9.) TOPOGRAPHIC SURVEY WAS PERFORMED BY BERRY SURVEYING AND ENGINEERING IN JULY OF 2015.

10.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

11.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# –330150, MAP# – 33017C0184D, DATED: MAY 17, 2005 & FEMA COMMUNITY# –330150, MAP# – 33017C0203D, DATED: MAY 17, 2005



LOCATION PLAN
ROCHESTER, NH
NOT TO SCALE

PLAN REFERENCES:

1.) "EXISTING CONDITIONS PLAN LAND OF 21 FARMINGTON ROAD LLC 21 FARMINGTON"
BY: BERRY SURVEYING & ENGINEERING
DATED: MARCH 30, 2015
S.C.R.D. DB 2014–149

2.) "BOUNDARY LINE ADJUSTMENT BETWEEN TAX MAP 221/LOTS 59, 67–69 CAPITOL CIRCLE ROCHESTER, N.H. FOR MALCOM J. JR. & JULIE A FORD, KATHY A. FORD, MARC E. & JANET S. JACQUES
BY: NORWAY PLAINS ASSOCIATES, INC.
DATED: FEBRUARY 2001
S.C.R.D. PLAN # 62–6

3.) "SUBDIVISION OF LAND ROCHESTER, N.H. FOR SPAULDING REALTY TRUST"
BY: NORWAY PLAINS SURVEY ASSOCIATES, INC.
DATED: FEBRUARY 21, 1987
S.C.R.D. PLAN # 24–77

4.) "BOUNDARY SURVEY PLAN OF LAND PREPARED FOR RITA MURJANI ROCHESTER, NH"
BY: YERKES SURVEYING CONSULTANTS
DATED: FEBRUARY 23, 1995
S.C.R.D. PLAN # 47–51

5.) "SURVEY OF THE LAND OF NORTHGATE APARTMENT COMPLEX, N.H.
BY: HOLDEN ENGINEERING & SURVEYING INC.
DATED: JANUARY 5, 1982
S.C.R.D.: PLAN # 23A–23

6.) "PROPOSED SUBDIVISION LAND OF BERANGER REALTY, INC. ROUTE
11 ROCHESTER, N.H."
BY: BERRY CONSTRUCTION CO., INC.
DATED: JUNE 4, 1979
S.C.R.D.: PLAN # 20–63

7.) "SUBDIVISION PLAN OF LAND IN ROCHESTER, N.H. (NORTHGATE APARTMENT COMPLEX)"
BY: LLOYD E. BROWN, LLS
DATED: DECEMBER 16, 1976
S.C.R.D.: PLAN # 16A–59

8.) "BOUNDARY PLAN OF LAND IN ROCHESTER, N.H. FOR THURLO GLIDDEN"
BY: ALBERT GILE, LLS
DATED: MARCH 6, 1972
S.C.R.D.: PLAN # 60 POCKET # 2 FOLDER # 17

9.) "PROPERTY OF RICHARD S. ROBIE ROCHESTER, N.H."
BY: PETER HODGES SURVEYORS, INC.
DATED: SEPTEMBER 25, 1972
S.C.R.D.: PLAN # 47 POCKET # 9 FOLDER # 2

10.) "PROPERTY OF RICHARD S. ROBIE ROCHESTER, N.H."
BY: PETER G. HODGES, SURVEYORS
DATED: SEPTEMBER 1969
S.C.R.D.: PLAN # 13 POCKET # 11 FOLDER # 3

11.) "DIVISION OF LAND ANCA INC. ROCHESTER NEW HAMPSHIRE"
BY: G.L. DAVIS & ASSOCIATES
DATED: AUGUST 1974
S.C.R.D.: PLAN # 60 POCKET # 10 FOLDER # 2

12.) "PLAN OF LAND JANET VACHON FARMINGTON ROAD, ROUTE 11 ROCHESTER, N.H."
BY: BERRY CONST. CO., INC.
DATED: OCTOBER 1968
S.C.R.D.: PLAN

DAMON E. BURT
CWS #163

THE WETLAND DELINEATION WAS COMPLETED FALL 2014 IN ACCORDANCE WITH THE 1987 CORP OF ENGINEERS WETLAND DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY: DAMON E. BURT, CWS #163 FRAGGLE ROCK ENVIRONMENTAL SERVICES

UTILITY NOTE :

THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR NOR THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

SOILS:

GrB – GLOUCESTER FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
HaB – HINCKLEY LOAMY SAND, 3 TO 8 PERCENT SLOPES
LrB – LEICESTER–RIDGEBURY VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES

SEE WEBSOIL USDA–NRCS

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

I CERTIFY THAT THIS PLAT EXCEEDS THE MINIMUM REQUIREMENT FOR ACCURACY AND COMPLETENESS OF THE STATE OF N.H. AND OF THE CITY OF ROCHESTER, N.H. – 1:10,000–

KENNETH A. BERRY L.L.S. 805 DATE

REVISION	DATE	DESCRIPTION

EXISTING CONDITIONS PLAN
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : 1 IN. EQUALS 30 FT.
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 – 057

STATE OF NEW HAMPSHIRE NO. 805 LICENSED LAND SURVEYOR
KENNETH A. BERRY
SIGNATURE

SECTION 10 PARKING REQUIREMENTS:

- RETAIL
  - 1 SPACE REQUIRED PER 250 Sq. Ft.
  - 6,150 Sq. Ft. / 250 Sq. Ft. = 25 SPACES
- INDOOR RECREATION
  - 1 SPACE REQUIRED PER 400 Sq. Ft.
  - 10,960 Sq. Ft. / 400 Sq. Ft. = 27 SPACES

52 SPACES REQUIRED
55 SPACES PROPOSED AND EXISTING
INCLUDING 3 ADA SPACES

LEGEND:

●	IRON BOUND ~SET~
○	IRON BOUND ~FND~
	UTILITY POLE/GUY WIRE
	BOUNDARY LINE
	EASEMENT LINE
OHU	OVERHEAD UTILITIES LINE
	WETLAND LINE
	SHOULDER
	CHAIN LINK FENCE
S.C.R.D.	STRAFFORD COUNTY REGISTRY OF DEEDS
TYP.	TYPICAL
FND	FOUND
E.O.P.	EDGE OF PAVEMENT
PL	PROPERTY LINE
EL	EASEMENT LINE
T.B.R.	TO BE REMOVED
C.C.C.	CAST-IN-PLACE CONCRETE CURB
EX.	EXISTING
PROP.	PROPOSED
D.S.L. (Y)	DOUBLE SOLID LINE (YELLOW)
S.S.L. (W)	SINGLE SOLID LINE (WHITE)
S.S.B. (Y)	SINGLE SOLID WITH BROKEN LINE (YELLOW)
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVATURE
	EXISTING RAIN GARDEN
	PROPOSED RETAINING WALL

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

NH ROUTE 11/FARMINGTON ROAD

N/F NORTHGATE INVESTMENT PROPERTIES LLC
36 FARMINGTON ROAD
ROCHESTER, NH 03867
S.C.R.D. BOOK 1811, PAGE 017
TAX MAP 216, LOT 4

EDGE OF POORLY DRAINED JURISDICTIONAL WETLANDS (TYP.) BY: DAMON BURT, CWS #163 UNDER 1/2 Ac., NO BUFFER REQUIRED

EX. TREELINE

EX. RAIN GARDEN

INSTALL 218 LF WOOD FRAME RAIL

LAMP "A" MOUNTED 18' 2' BASE 16' POLE

PROP. TYPICAL PARKING SPACE 9'x18'

EXISTING 50' ACCESS EASEMENT

PAVED APRON FOR ACCESS TO TOP OF SLOPE

SNOW STORAGE

PROP. LOCK BLOCK RETAINING WALL TO BE DESIGNED BY OTHERS 577 L.F.

INSTALL 6' CHAIN LINK FENCE AT TOP OF BLASTED SLOPE

"COYOTE CREEK INDOOR ARCHERY RANGE"
PROPOSED 10,960 Sq. Ft.
RECREATION & STORAGE BUILDING
FF = 254.50
BUILDING HEIGHT: 33.3'

PROPOSED BITUMINOUS CONCRETE

PROP. SIGN "EMPLOYEE PARKING ONLY" AFFIXED TO BUILDING

PROP. DO NOT ENTER SIGN PER MUTCD R5-1

EMPLOYEE ENTRANCE

OVERHEAD DOOR

LANDSCAPED ISLAND

5' CONCRETE SIDEWALK W/ INTEGRAL CURBING

PROP. SIGN NO PARKING FIRE LANE PER. MUTCD R8-31

PROP. HANDICAPPED PARKING SIGN PER. MUTCD R7-8

PROP. HANDICAPPED PARKING SIGN W/ VAN PLACARD PER. MUTCD R7-8A

FLUSH MOUNT WITH TRUNCATED DOMES & 12:1 RAMP

CAST-IN-PLACE CONCRETE CURBING (C.C.C) (TYP.)

PROPOSED PLANTING STRIP

PROPOSED LANDSCAPING

8' CONCRETE SIDEWALK W/ INTEGRAL CURBING

CUSTOMER ENTRANCE

9'x18' ADA

PROP. STOP SIGN PER. MUTCD R1-1

18" STOP LINE SSWL [T]

PROP. ONE WAY SIGN PER MUTCD R6-1R

PROP. TYPICAL PARKING SPACE 9'x18'

EX. TREELINE

SNOW STORAGE

PROP. LOCK BLOCK RETAINING WALL TO BE DESIGNED BY OTHERS 577 L.F.

N/F DAVID S. THAYER
22 FARMINGTON ROAD, NH ROUTE 11
ROCHESTER, NH 03867
S.C.R.D. BOOK 4503, PAGE 288
TAX MAP 216, LOT 3
SUBJECT PARCEL

IRON BOUND ~SET~ +.5'

IRON BOUND ~SET~ +.8'

EDGE OF POORLY DRAINED JURISDICTIONAL WETLANDS (TYP.) BY: DAMON BURT, CWS #163 * UNDER 1/2 Ac., NO BUFFER REQUIRED

EX. WOODEN FENCE

SNOW STORAGE

EX. TREELINE

EX. POCKET POND

EXISTING PAVEMENT TO BE REMOVED AREA TO RECEIVE 4" LOAM & SEED

IRON BOUND ~SET~ -.2'

IRON BOUND ~SET~ FLUSH

TRANSFORMER TO BE SCREENED TO THE SASTIFACTION OF THE ASSISTANT CITY MANAGER COORDINATE W/ EVERSOURCE

A BLANKET UTILITY AND ACCESS EASEMENT EXISTS FROM LOT 2 TO LOT 3 S.C.R.D. PLAN DRAWER 114, PLAN NUMBER 026 UNRECORDED EASEMENT, ON FILE AT THE CITY OF ROCHESTER

SAW CUT AND MILL AS REQUIRED

LAMP "A" MOUNTED 18' 2' BASE 16' POLE

LAMP "B" MOUNTED 6'

LAMP "C" MOUNTED 10'

LAMP "D" MOUNTED 10'

EX. DUMPSTER

EX. PARKING SPACE 9'x18'

ACCESS EASEMENT

EXISTING BITUMINOUS CONCRETE

LANDSCAPED ISLAND

EXISTING CONCRETE SIDEWALK AT GRADE

EXISTING ADDITIONAL CUSTOMER PARKING 6 SPACES

EX. 9'x18' ADA

EXISTING OVERHEAD UTILITY LINES (TYP.)

18" STOP LINE SSWL [T]

NET&T 69 W/ GUY

SNOW STORAGE

EX. WOODEN FENCE

"COYOTE CREEK HUNTING & FISHING OUTFITTERS"

"COYOTE CREEK HUNTING & FISHING OUTFITTERS"
EXISTING 6,150 Sq. Ft.
RETAIL STORE

EXISTING PAVEMENT TO BE REMOVED AREA TO RECEIVE 4" LOAM & SEED

TIE INTO EXISTING PAVEMENT

GRASS STRIP

EXISTING CONCRETE SIDEWALK AT GRADE

TIE INTO EXISTING CONCRETE WALK

TRUNCATED DOME

5' CROSSWALK [T]

EXISTING STORAGE CONTAINER

LAMP "B" MOUNTED 6'

LAMP "C" MOUNTED 10'

SNOW STORAGE

PROP. TYPICAL PARKING SPACE 9'x18'

EX. TREELINE

N/F DAVID S. THAYER
22 FARMINGTON ROAD, NH ROUTE 11
ROCHESTER, NH 03867
S.C.R.D. BOOK 4152, PAGE 849
TAX MAP 216, LOT 2
SUBJECT PARCEL

PARKING / PAVING / ACCESS EASEMENT

SNOW STORAGE

WAIVERS:
WIDTH OF DRIVE AISLE (10-E-3): PENDING

NOTES:

1.) CURRENT OWNER: DAVID S. THAYER
22 FARMINGTON ROAD (ROUTE 11)
ROCHESTER, NH 03867
TAX MAP 216, LOT 2 & 3

2.) THE PROJECT PARCELS ARE MAP 216, LOTS 2 & 3 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.

3.) THE PROJECT PARCELS CONTAIN 111,634.4 Sq. Ft. (2.56 Ac.) AND 129,173.3 Sq. Ft. (2.97 Ac.) OF LAND, RESPECTIVELY.

4.) TITLE REFERENCE FOR THE PROJECT PARCELS ARE THE STRAFFORD COUNTY REGISTRY OF DEEDS, (S.C.R.D.) BOOK NO. 4152 PAGE NO. 849, AND BOOK NO. 4503, PAGE 288, RESPECTIVELY.

5.) LOCUS PARCEL IS SUBJECT TO EASEMENTS AS NOTED.

6.) ZONING: GRD –GRANITE RIDGE DEVELOPMENT
SETBACKS:
FRONTAGE: 50 FEET, MINIMUM
MIN. LOT AREA: NO REGULATION
MAX. LOT COVERAGE: NO REGULATION
FRONT SETBACK: NO REGULATION
SIDE SETBACK: NO REGULATION
REAR SETBACK: NO REGULATION
PAVEMENT SETBACKS:
FRONT PAVEMENT: 10 FEET
SIDE PAVEMENT: 5 FEET
REAR PAVEMENT: 10 FEET

7.) THE INTENT OF THIS PLAN IS TO SHOW ENGINEERING SITE PLAN DETAIL OF THE PROPOSED SITE AT FARMINGTON ROAD.

8.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN JULY 2015 WITH AN ERROR OF CLOSURE GREATER THAN 1 IN 10,000.

9.) TOPOGRAPHIC SURVEY WAS PERFORMED BY BERRY SURVEYING AND ENGINEERING IN JULY OF 2015.

10.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

11.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# –330150, MAP# – 33017C0184D, DATED: MAY 17, 2005 & FEMA COMMUNITY# –330150, MAP# – 33017C0203D, DATED: MAY 17, 2005.

12.) AS BUILT PLANS OF SITE SHALL BE SUBMITTED ON PAPER AND IN A DIGITAL FORMAT IN A PDF AND AUTOCAD DWG, AUTOCAD DXF OR AN ERSI FORMAT TO THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E. DIGITAL FILES SHALL BE GEO-REFERENCED TO NEW HAMPSHIRE STATE PLANE COORDINATES NAD83 AND SHALL BE EXPRESSED IN FEET.

13.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.

14.) THE PROPOSED USE FOR THE SITE IS INDOOR RECREATION AND STORAGE.

15.) ACCESS TO TAX MAP 216, LOT 3 IS BEING TAKEN OVER TAX MAP 216, LOT 2 OWNED BY DAVID S. THAYER.

16.) ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.

17.) THE SUBJECT PARCEL IS SERVICED BY ONSITE WATER AND MUNICIPAL SEWER.

18.) ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDS SUCH AS LOAM SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE AND RATES FOR FERTILIZER, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION.

19.) THE LIMITS OF CONSTRUCTION DISTURBANCE SHALL BE STAKED, FLAGGED AND CLEARLY IDENTIFIED PRIOR TO THE COMMENCEMENT OF SITE WORK.

20.) ALL TREATMENT SWALES TO BE CONSTRUCTED SHALL HAVE SOD BOTTOMS.

21.) 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. COORDINATE WITH THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS.

22.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR, AND DEPARTMENT OF PUBLIC WORKS SHALL OCCUR PRIOR EARTH DISTURBING ACTIVITY.

23.) BUILDING ADDRESSES SHALL BE ASSIGNED BY THE BUILDING INSPECTOR AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.

24.) THE FOLLOWING FEDERAL AND STATE PERMITS HAVE BEEN ISSUED FOR THE SUBJECT PROPERTY:
EPA NOTICE OF INTENT (NOI): (PENDING)
NHDOT DRIVEWAY PERMIT: #06-389-618
NHDES SEWER CONNECTION PERMIT: #D2017-0305

25.) THIS PLAN PROPOSES APPROXIMATELY 93,000 SQ. FT. OF DISTURBANCE.

26.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2016. CONSTRUCTION SHALL ALSO CONFORM TO THE CITY OF ROCHESTER POLICIES AND PRACTICES.

27.) CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233).

28.) EXTERIOR LIGHTING SHALL BE CUT-OFF TYPE FIXTURES AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.

29.) FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE STREET SIDE OF THE BUILDING PER NFPA 13, AS APPLICABLE.

30.) BOTH FACILITIES ARE TO BE FITTED WITH SECURITY SYSTEMS.

31.) FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES AND THE ROCHESTER DPW.

32.) CONTRACTOR TO CONTACT ROCHESTER DPW A MINIMUM OF TWO WEEKS PRIOR TO ANY CONSTRUCTION TO COORDINATE ALL WORK CONCERNING INSTALLATION OF ANY PROPOSED WATER LINE IMPROVEMENTS AS MAY BE REQUIRED.

33.) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (603) 436-7708. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.

34.) CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH ATLANTIC BROADBAND AT (800) 952-1001.

35.) NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER.

36.) ALL UNPAVED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED.

37.) THE SITE LAYOUT IS DESIGNED IN COMPLIANCE WITH APPLICABLE ACCESSIBILITY REGULATIONS. THE PROPOSED STRUCTURE WILL ALSO BE DESIGNED IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY REGULATIONS.

38.) LIST ANY VARIANCES OR SPECIAL EXCEPTIONS GRANTED BY THE ZONING BOARD OF ADJUSTMENT FOR THE PROPOSED STRUCTURE:
* 42.8 GRANITE RIDGE SECTION C. PAVEMENT DIMENSIONAL REGULATIONS TO ALLOW PAVEMENT OVER THE LOT LINE BETWEEN THE TWO PARCELS OF LAND UNDER CONSIDERATION FOR SITE REVIEW.

39.) THE CONSTRUCTION HOURS SHALL BE LIMITED TO MONDAY-FRIDAY 7AM-6PM, SATURDAY 8AM-6PM WITH NO SUNDAY HOURS. HOURS OF CONSTRUCTION SHALL BE DOCUMENTED ON A SITE CONSTRUCTION SIGN ALONG WITH THE CONTACT INFORMATION FOR THE GENERAL CONTRACTOR.

40.) FROM GROUND BREAKING THE SITE SHALL REMAIN ACCESSIBLE YEAR ROUND IN ALL WEATHER CONDITIONS.

41.) THIS SITE DESIGN HAS BEEN REVIEWED FOR COMPLIANCE WITH THE APPLICABLE ACCESSIBILITY REGULATIONS IN ACCORDANCE WITH NH RSA 11-A:5.

42.) IF REQUIRED, SNOW SHALL BE REMOVED TO AN APPROVED LOCATION. SNOW STORAGE SHALL NOT IMPEDE DRAINAGE.
EXISTING AND PROPOSED PAVEMENT COVERAGE LOTS 2 & 3: 35,416 Sq. Ft.
SNOW STORAGE: 5,900 Sq. Ft.
6:1 RATIO PROVIDED

43.) EXISTING BUILDING IMPERVIOUS AREA TAX MAP 216, LOT 2: 6,150 Sq. Ft. (5.5%)
EXISTING PAVED IMPERVIOUS AREA TAX MAP 216, LOT 2: 13,782 Sq. Ft. (12.3%)
EXISTING BUILDING IMPERVIOUS AREA TAX MAP 216, LOT 3: 0 Sq. Ft. (0%)
EXISTING PAVED IMPERVIOUS AREA TAX MAP 216, LOT 3: 344 Sq. Ft. (0.3%)

PROPOSED NEW PAVED IMPERVIOUS AREA TAX MAP 216, LOT 2: 3,811 Sq. Ft. (8.8%)
PROPOSED BUILDING IMPERVIOUS AREA TAX MAP 216, LOT 3: 10,960 Sq. Ft. (8.5%)
PROPOSED PAVED IMPERVIOUS AREA TAX MAP 216, LOT 3: 17,823 Sq. Ft. (12.0%)

TOTAL PROPOSED IMPERVIOUS COVER TAX MAP 216, LOT 2: 23.743 Sq. Ft. (21.3%)
TOTAL PROPOSED IMPERVIOUS COVER TAX MAP 216, LOT 3: 28,783 Sq. Ft. (22.3%)

44.) 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.

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

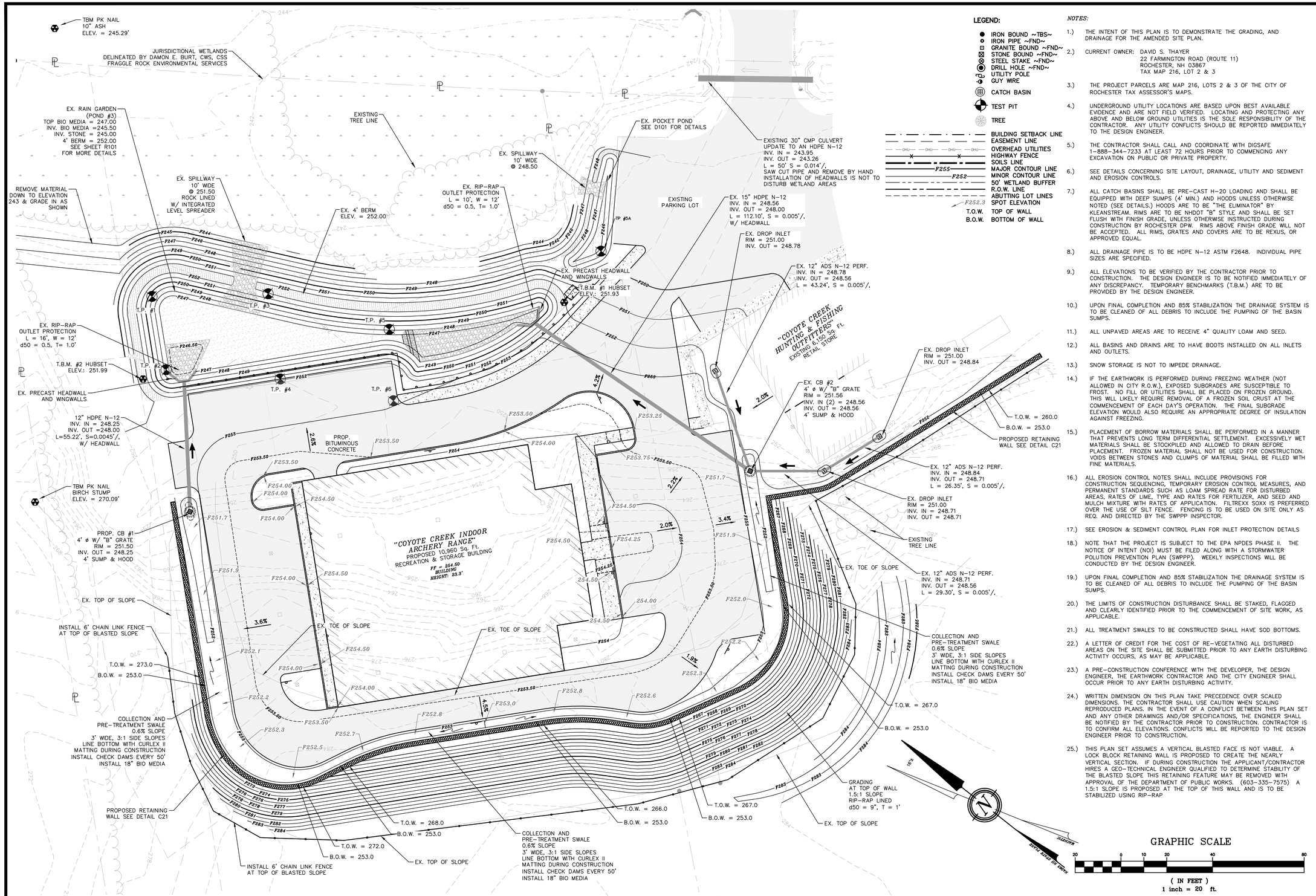
REVISION	DATE	DESCRIPTION

SITE PLAN
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A BERRY
No. 14241
LICENSED PROFESSIONAL ENGINEER



NOTES:

1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE GRADING, AND DRAINAGE FOR THE AMENDED SITE PLAN.

2.) CURRENT OWNER: DAVID S. THAYER
22 FARMINGTON ROAD (ROUTE 11)
ROCHESTER, NH 03867
TAX MAP 216, LOT 2 & 3

3.) THE PROJECT PARCELS ARE MAP 216, LOTS 2 & 3 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS.

4.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

5.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

6.) SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.

7.) ALL CATCH BASINS SHALL BE PRE-CAST H-20 LOADING AND SHALL BE EQUIPPED WITH DEEP SUMPS (4' MIN.) AND HOODS UNLESS OTHERWISE NOTED (SEE DETAILS.) HOODS ARE TO BE "THE ELIMINATOR" BY KLEANSTREAM. RIMS ARE TO BE NHDOT "B" STYLE AND SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE INSTRUCTED DURING CONSTRUCTION BY ROCHESTER DPW. RIMS ABOVE FINISH GRADE WILL NOT BE ACCEPTED. ALL RIMS, GRATES AND COVERS ARE TO BE REXUS, OR APPROVED EQUAL.

8.) ALL DRAINAGE PIPE IS TO BE HDPE N-12 ASTM F2648. INDIVIDUAL PIPE SIZES ARE SPECIFIED.

9.) 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.

10.) UPON FINAL COMPLETION AND 85% STABILIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS TO INCLUDE THE PUMPING OF THE BASIN SUMPS.

11.) ALL UNPAVED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED.

12.) ALL BASINS AND DRAINS ARE TO HAVE BOOTS INSTALLED ON ALL INLETS AND OUTLETS.

13.) SNOW STORAGE IS NOT TO IMPEDE DRAINAGE.

14.) IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER (NOT ALLOWED IN CITY R.O.W.), EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAINST FREEZING.

15.) PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT PREVENTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND ALLOWED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION. VOIDS BETWEEN STONES AND CLUMPS OF MATERIAL SHALL BE FILLED WITH FINE MATERIALS.

16.) ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDS SUCH AS LOAM SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE AND RATES FOR FERTILIZER, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION. FILTREXX SOXX IS PREFERRED OVER THE USE OF SILT FENCE. FENCING IS TO BE USED ON SITE ONLY AS REQ. AND DIRECTED BY THE SWPPP INSPECTOR.

17.) SEE EROSION & SEDIMENT CONTROL PLAN FOR INLET PROTECTION DETAILS

18.) NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER.

19.) UPON FINAL COMPLETION AND 85% STABILIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS TO INCLUDE THE PUMPING OF THE BASIN SUMPS.

20.) THE LIMITS OF CONSTRUCTION DISTURBANCE SHALL BE STAKED, FLAGGED AND CLEARLY IDENTIFIED PRIOR TO THE COMMENCEMENT OF SITE WORK, AS APPLICABLE.

21.) ALL TREATMENT SWALES TO BE CONSTRUCTED SHALL HAVE SOD BOTTOMS.

22.) 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.

23.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR AND THE CITY ENGINEER SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.

24.) 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.

25.) THIS PLAN SET ASSUMES A VERTICAL BLASTED FACE IS NOT VIABLE. A LOCK BLOCK RETAINING WALL IS PROPOSED TO CREATE THE NEARLY VERTICAL SECTION. IF DURING CONSTRUCTION THE APPLICANT/CONTRACTOR HIRES A GEO-TECHNICAL ENGINEER QUALIFIED TO DETERMINE STABILITY OF THE BLASTED SLOPE THIS RETAINING FEATURE MAY BE REMOVED WITH APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS. (603-335-7575) A 1.5:1 SLOPE IS PROPOSED AT THE TOP OF THIS WALL AND IS TO BE STABILIZED USING RIP-RAP

REVISION	DATE	DESCRIPTION

GRADING PLAN
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER

SOILS & DEWATERING:

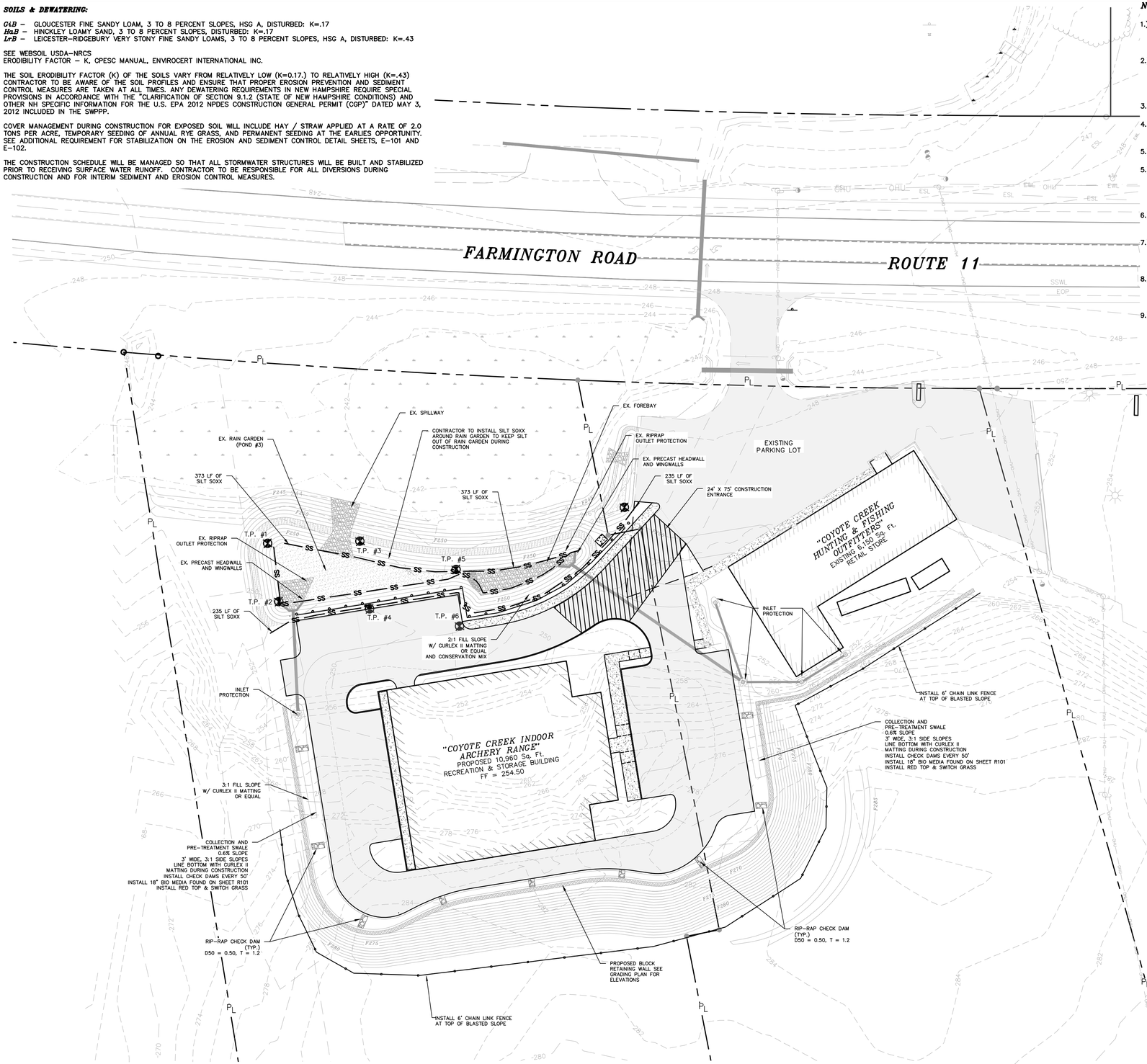
GsB – GLOUCESTER FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, HSG A, DISTURBED: K=.17
HaB – HINCKLEY LOAMY SAND, 3 TO 8 PERCENT SLOPES, DISTURBED: K=.17
LrB – LEICESTER–RIDGEBURY VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES, HSG A, DISTURBED: K=.43

SEE WEBSOIL USDA–NRCS
ERODIBILITY FACTOR – K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC.

THE SOIL ERODIBILITY FACTOR (K) OF THE SOILS VARY FROM RELATIVELY LOW (K=0.17.) TO RELATIVELY HIGH (K=.43) CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DEWATERING REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9.1.2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP)" DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIES OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E–101 AND E–102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.



NOTES:

1.) THE INTENT OF THIS PLAN SET IS TO DEMONSTRATE THE EROSION AND SEDIMENT CONTROL DESIGN OF THE AMENDED SITE AT 22 FARMINGTON ROAD.

2.) CURRENT OWNER: DAVID S. THAYER
22 FARMINGTON ROAD (ROUTE 11)
ROCHESTER, NH 03867
TAX MAP 216, LOT 2 & 3

3.) THE PROJECT PARCELS ARE MAP 216, LOTS 2 & 3 OF THE CITY OF ROCHESTER TAX ASSESSOR'S MAPS

4.) THE PROJECT PARCELS CONTAIN 111,634.4 Sq. Ft. (2.56 Ac.) AND 129,173.3 Sq. Ft. (2.97 Ac.) OF LAND, RESPECTIVELY.

5.) SEE NOTE SHEET FOR EROSION AND SEDIMENT CONTROL NOTES

5.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

6.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1–888–344–7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

7.) 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.

8.) UPON FINAL COMPLETION AND 85% STABILIZATION, THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS. SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PREFORMED ON ALL DRAINAGE PRACTICES.

9.) EROSION AND SEDIMENT CONTROL INSPECTIONS TO BE CONDUCTED ONCE PER EVERY SEVEN DAYS AND AT AN INCREASED FREQUENCY INCLUDING WITHIN 24–HOURS OF A 0.25 INCH RAIN EVENT. INSPECTIONS TO BE CONDUCTED BY A "QUALIFIED PERSON" AS DEFINED BY EPA CGP 4.1.1 AND INSPECTION REPORTS SUBMITTED TO THE CITY OF ROCHESTER, NH, ENGINEERING DEPARTMENT WITHIN 24 HOURS IN ACCORDANCE WITH CGP 4.1.7 AND MAINTAINED BY THE OWNER FOR A PERIOD OF THREE YEARS AFTER THE NOTICE OF TERMINATION (NOT) IS SUBMITTED. SEE ALSO CITY OF ROCHESTER ADDITIONAL INSPECTION REQUIREMENTS BELOW.

LEGEND:

- (R) RAIN GARDEN BIO–MEDIA PROTECTION
- (P) PERIMETER CONTROL
- (C) RESIDENTIAL/ROADWAY CONSTRUCTION
- IRON PIPE (FND)
- IRON BOUND (FND)
- REBAR (FND)
- UTILITY POLE
- GUY WIRE
- (W) WELL
- BENCHMARK
- CONIFEROUS TREE
- DECIDUOUS TREE
- SF — SILT FENCE
- SS — FILTREXX SILTSOXX TREE LINE

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

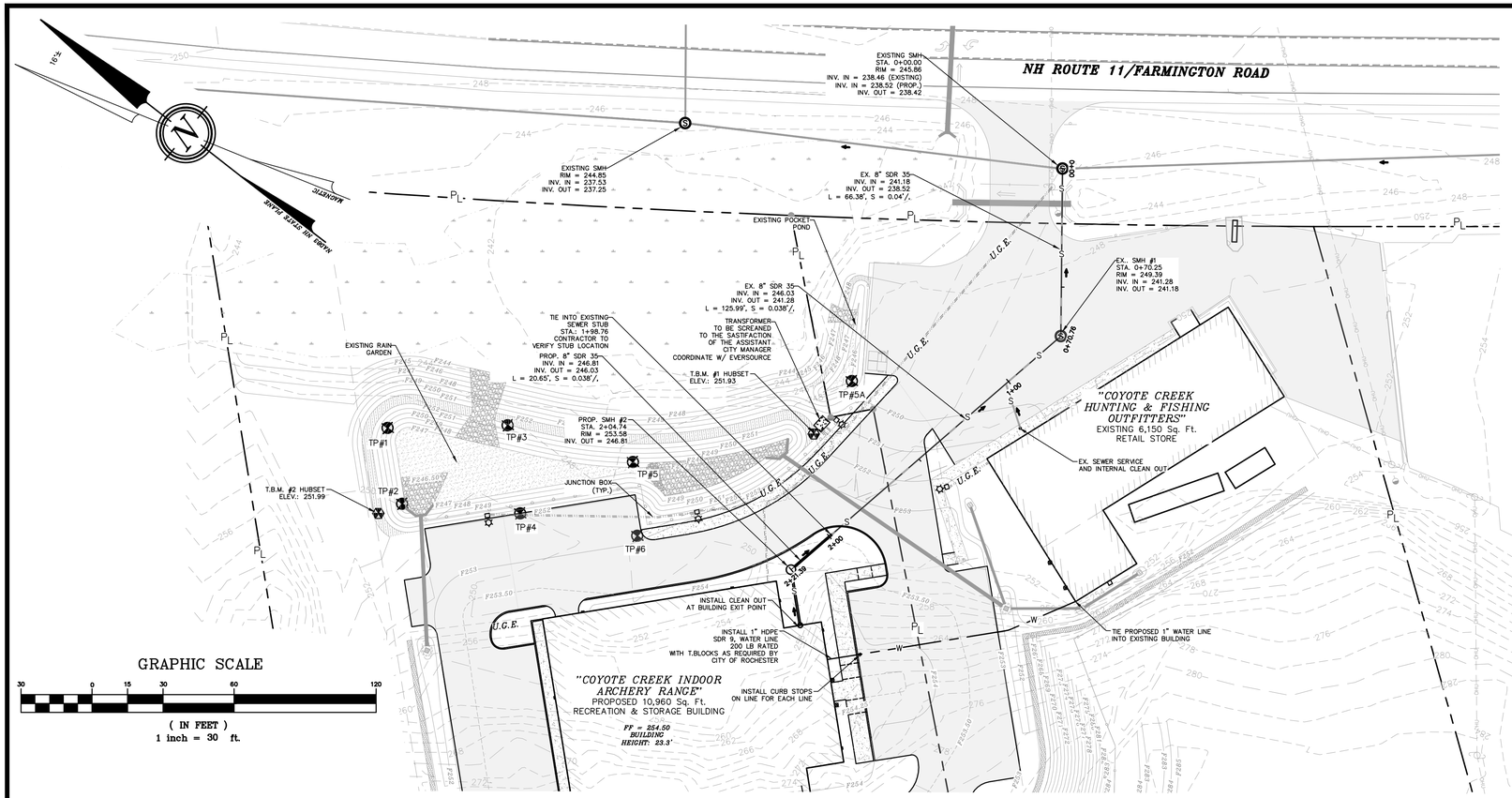
REVISION	DATE	DESCRIPTION

EROSION AND SEDIMENT CONTROL PLAN
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : 1 IN. EQUALS 30 FT.
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 – 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER



NOTES:

1.) THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THE OVERVIEW OF THE UTILITIES WITHIN THE AMENDED SITE PLAN.

2.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

3.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

4.) PROTECTION OF SUBGRADE: THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STABLE, DEWATERED SUBGRADES, TRENCHES, AND OTHER AREAS DURING CONSTRUCTION. SUBGRADE DISTURBANCE MAY BE INFLUENCED BY EXCAVATION METHODS, MOISTURE, PRECIPITATION, GROUNDWATER CONTROL, AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT SUBGRADE DISTURBANCE. SUCH PRECAUTIONS MAY INCLUDE DIVERTING STORMWATER RUNOFF AWAY FROM CONSTRUCTION AREAS, REDUCING TRAFFIC IN SENSITIVE AREAS, AND MAINTAINING AN EFFECTIVE DEWATERING PROGRAM. SOILS EXHIBITING HEAVING OR INSTABILITY SHALL BE OVER EXCAVATED TO MORE COMPETENT BEARING SOIL AND REPLACED WITH FREE DRAINING STRUCTURAL FILL MEETING THE ENGINEERS SPECIFIC RECOMMENDED CRITERIA.

5.) IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER (NOT ALLOWED IN CITY R.O.W.), EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAINST FREEZING.

6.) PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT PREVENTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND ALLOWED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION. VOIDS BETWEEN STONES AND CLUMPS OF MATERIAL SHALL BE FILLED WITH FINE MATERIALS.

7.) FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES AND THE ROCHESTER DPW.

8.) CONTRACTOR TO CONTACT ROCHESTER DPW A MINIMUM OF TWO WEEKS PRIOR TO ANY CONSTRUCTION TO COORDINATE ALL WORK CONCERNING INSTALLATION OF ANY PROPOSED WATER LINE IMPROVEMENTS.

9.) ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO CITY OF ROCHESTER STANDARDS. ALL HIGHWAY CONSTRUCTION WILL MEET THE CITY OF ROCHESTER STANDARDS.

10.) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (800) 662-7764. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.

11.) ALL SEWER INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF NHDES & ROCHESTER DPW SEWER DIVISION STANDARDS. ALL PVC SEWER PIPE IS TO CONFORM WITH ENV-WQ 704.05 (c)-(e) AND CONFORM WITH ASTM D3034. PVC JOINT SEALS SHALL CONFORM WITH ASTM D3121.

12.) CONTRACTOR SHALL COORDINATE ALL CABLE INSTALLATIONS WITH METROCAST.

13.) CONTRACTOR SHALL COORDINATE ALL GAS INSTALLATIONS WITH UNITIL.

14.) ALL SEWER MAN HOLE RIMS & COVERS ARE TO BE PAMREX.

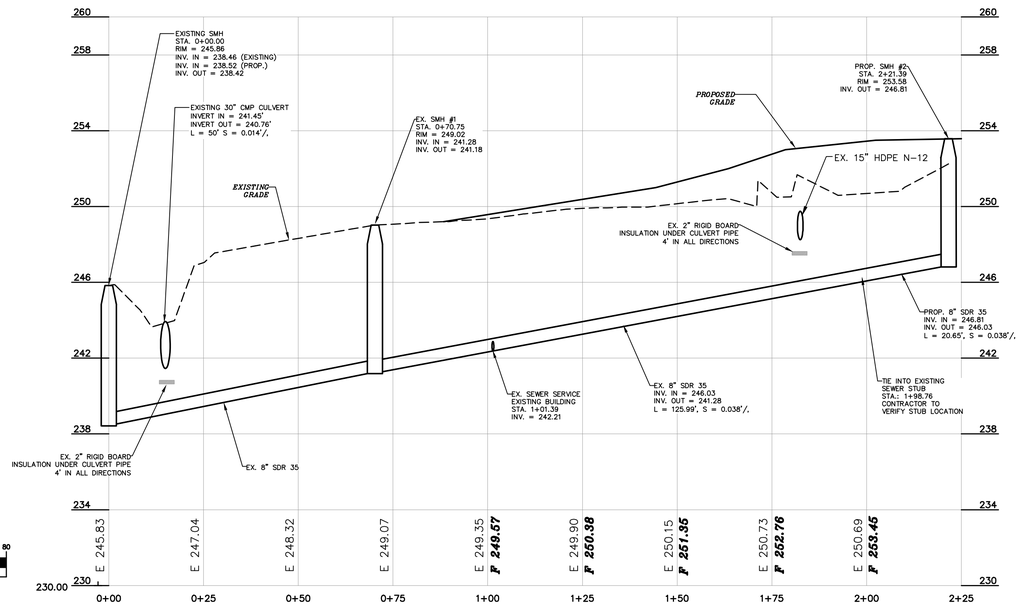
15.) ALL WATER SERVICES ARE TO BE WITNESSED WITH A 2"X4" PAINTED BLUE. ALL SEWER SERVICES ARE TO BE WITNESSED WITH A 2"X4" PAINTED YELLOW, IS STUBBED PRIOR TO BUILDING CONSTRUCTION.

16.) SEE EXISTING CONDTIONS PLAN FOR DATUM. VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL DATUS BASED ON NAD83 STATE PLANE COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.

17.) MINIMUM SLOPE FOR SERVICE CONNECTIONS IS TO BE NO LESS THAN 0.02'/,.

18.) ALL SEWER INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF NHDES & ROCHESTER DPW SEWER DIVISION STANDARDS. ALL PVC SEWER PIPE IS TO CONFORM WITH ENV-WQ 704.05 (c)-(e) AND CONFORM WITH ASTM D3034. PVC JOINT SEALS SHALL CONFORM WITH ASTM D3121.

19.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.



SEWER PROFILE

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'

REVISION	DATE	DESCRIPTION

UTILITY PLAN
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS SHOWN
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY No. 14243 LICENSED PROFESSIONAL ENGINEER

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NH ROUTE 11/FARMINGTON ROAD

Schedule									
Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
	A	5	KSE1 100M R3	ARM MOUNTED FIXTURE WITH PREMIUM SEGMENTED OPTICS MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 100-WATT CLEAR E-17 METAL HALIDE, HORIZONTAL POSITION	1	8500	0.81	140
	B	5	ODSL10 SRC	CRAFTSTON WALL MOUNTED SMALL DECORATIVE LANTERN, ONE LAMP 13W SPIRAL COMPACT FLUORESCENT, WHITE GLASS DIFFUSER 4.25" DIA. X 6.65" HIGH, ELECTRONIC BALLAST	ONE 13-WATT T4 SPIRAL COMPACT FLUORESCENT, VERTICAL BASE UP POSITION.	1	900	1	12.6
	C	3	WST 100M WT	ARCHITECTURAL SCONCE WITH WIDE THROW DISTRIBUTION WITH CLEAR, FLAT GLASS LENS. CLEAR LAMP. MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 100-WATT CLEAR ED-17 METAL HALIDE, HORIZONTAL POSITION.	1	8500	0.81	140
	D	8	WST 150M FT (PULSE START)	ARCHITECTURAL SCONCE WITH FORWARD THROW DISTRIBUTION WITH CLEAR, FLAT GLASS LENS. CLEAR LAMP. MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 150-WATT CLEAR ED17 PULSE START METAL HALIDE, HORIZONTAL POS.	1	12900	0.81	185

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.8 fc	14.6 fc	0.0 fc	N/A	N/A

LAMP "A" MOUNTED 18' 2' BASE 16' POLE

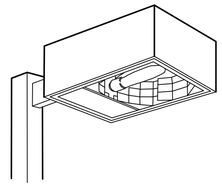
LAMP "B" MOUNTED 6'

LAMP "C" MOUNTED 10'

LAMP "D" MOUNTED 10'

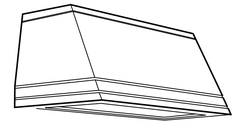
"COYOTE CREEK INDOOR ARCHERY RANGE"
PROPOSED 10,960 Sq. Ft.
RECREATION & STORAGE BUILDING

"COYOTE CREEK HUNTING & FISHING OUTFITTERS"
EXISTING 6,150 Sq. Ft.
RETAIL STORE



POLE MOUNTED LIGHTING LAMP "A"
NOT TO SCALE

C102 C15



WALL MOUNTED LIGHTING LAMP "C & D"
NOT TO SCALE

C102 C14

TYPICAL RESIDENTIAL LAMP "B"
NOT TO SCALE

C102 C13

LENSES TO BE WHITE ACRYLIC
ONE BULB FIXTURE
NIGHTSKY (tm) STAR-SHIELD ROOF OPTICS ARE REQUIRED ON ALL LAMPS AND HOUSE SIDE SHIELDS (HSS) WILL BE WILL BE USED.

SternbergLighting
ESTABLISHED 1927 • EMPLOYEE OWNED

Lanterns 6-290

9403 STATE SERIES SPECIFICATIONS

EPA = 2.15 (ft²)
WEIGHT = 19 LBS

GENERAL
The 9403TF State series is a historical four-sided fixture. It consists of a decorative cast curved roof, a cast cage with acrylic lenses and a lift hinge access door and /or hinged roof for relamping. The roof shall be appointed with a decorative cast finial.

POST FITTER
The fitter or base shall be heavy wall cast aluminum, 356 alloy for high tensile strength. It shall have an inside diameter opening to fit a 3" diameter pole or tenon. When ordered with a Sternberg aluminum pole, the fitter shall be set screwed to the pole top or tenon.

BALLAST
The ballast shall be remote mounted in the base of the pole, pole shaft, arm or ballast box. The 9403BB and 9403TFBB shall have an integral ballast compartment. The ballast housing shall be heavy wall cast aluminum, 356 alloy for high tensile strength. The housing shall be an integral part of the fixture and cast in one piece to ensure a water-tight compartment. The ballast shall be attached to the ballast housing to ensure high capacity heat sinking of ballast temperatures, keeping the ballast cooler and ensuring long life. The ballast shall be mounted on a pull out door for easy ballast maintenance.

ELECTRICAL
Fixture shall be U.L. or E.T.L. listed in U.S. and Canada. H.I.D. ballasts shall be high power factor with lamp starting down to -30 degrees C. Medium base and mogul base porcelain sockets are 4KV rated. All compact fluorescent (PL) ballasts shall be instant start electronic with a starting temperature of down to 0 degrees F. They shall have a 4-pin socket to accept quad or triple tube lamps. Ballasts shall be DOE EISA compliant.

FIXTURE HOUSING
The 9403 fixture shall be 15 1/2" wide and the overall height shall be 36". It shall be made of heavy wall cast aluminum, 356 alloy and lenses shall be made of vandal resistant acrylic, available in clear (CA), clear seeded (CSA), clear textured (CTA), prismatic (PA), and white (WA) acrylic. The fixture cage shall be cast in one piece. The Model 9403 shall be appointed with a cast square cupola house and roof finial. The Model 9403TF shall be appointed with a decorative cast 6" diameter tall finial. The Model 9403 cage shall a closed bottom. The Model 9403FB shall have a four legged open cage bottom.

OPTICAL OPTIONS
Refractors shall be 6" diameter borosilicate glass with an I.E.S. Type 3 (RE3) or Type 5 (RE5) distribution. It shall be secured to the socket stem with 3/8" plated steel threaded pipe nipple and rest on a cast aluminum holder with anti-shock gasket. The refractor will be secured to cast holder with a quarter-turn internal aluminum twist ring for ease of maintenance.

LIST NO. 9403 STATE SERIES

The **NIGHTSKY® OPTI-SHIELD® Louver Optic System** (LO) shall be a multi-tier reflector 15-13
(Continued on back page)

REVISION	DATE	DESCRIPTION

LIGHTING PLAN
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14248
LICENSED PROFESSIONAL ENGINEER

TREES AND SHRUBS

Qty	Botanical Name / Common Name	Root	Sized
2	abies balsamea / BALSAM FIR	Cont.	2"–2.5" Caliper, balled and burlapped
6	acer saccharum / Sugar Maple	Cont.	2"–2.5" Caliper, balled and burlapped
10	Fotherfilla gardenii / Dwarf Fotherfilla	Cont.	2' Ht. or 3 Gal.
10	PICEA glauca / White SPRUCE	Cont.	6' WHEN PLANTED
11	Taxus media 'Greenwave' / Greenwave Yew	Cont.	2' Ht. or 3 Gal.

PERENNIALS & GROUND COVERS

Qty	Botanical Name / Common Name	Root	Size	Remark
68	Rudbeckia fulgida / Black-Eyed Susan	Cont.	2 Qt.	24" OC

NOTES:

1.) CURRENT OWNER: DAVID S. THAYER
22 FARMINGTON ROAD (ROUTE 11)
ROCHESTER, NH 03867
TAX MAP 216, LOT 2 & 3

2.) ROCHESTER TAX MAP 29, LOT 2 & 3

3.) S.C.R.D BOOK 4152, PAGE 849 & BOOK 4503, PAGE 288

4.) CALL DIG SAFE PRIOR TO BEGINNING WORK. (1–888–344–7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.

5.) CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.

6.) PROVIDE SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.

7.) ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN

8.) ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.

9.) ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.

10.) ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.

11.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.

12.) NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.

13.) ALL SHRUB BEDS AND TREE PITS SHALL BE MULCHED WITH 4" CLEAN SHREDDED AGED PINEBARK

14.) WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL–ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.

15.) MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.

16.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURES AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.

17.) THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.

18.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.

19.) ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.

20.) SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.

21.) ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.

22.) TREES ARE TO BE 6' TALL AT PLANTING

23.) 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY–PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.

24.) PLANT–PIT BACK–FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON–SITE TOPSOIL AS PART OF BACK–FILL WHEN AVAILABLE.

25.) ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH LOAM AND SEED.

26.) TOPSOIL WILL BE TESTED FOR FERTILIZATION REQUIREMENTS, AND SLOW RELEASE ENVIRONMENTALLY FRIENDLY FERTILIZER WILL BE APPLIED AT THE RECOMMENDED RATES.

27.) ALL DISTURBED WETLAND BUFFER AREAS, EXCEPT FOR AREAS THAT ARE PART OF THE DRAINAGE SYSTEM, ARE TO BE RESEEDED WITH A CONSERVATION SEED MIX AND ONLY MOWED TWICE PER YEAR.

REVISION	DATE	DESCRIPTION

LANDSCAPING PLAN
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : 1 IN. EQUALS 20 FT.
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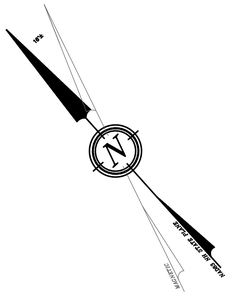
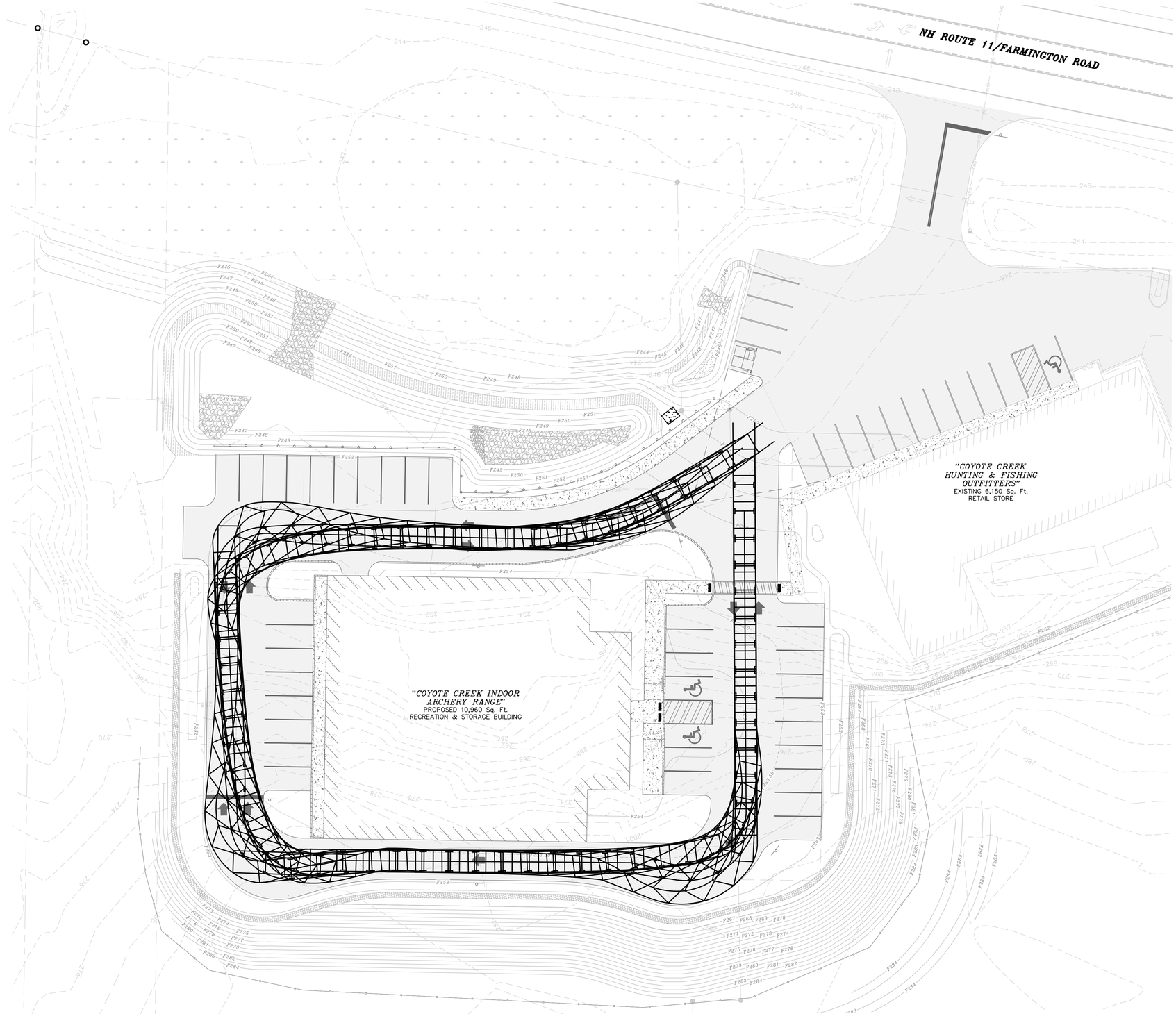
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.





REVISION	DATE	DESCRIPTION

ROCHESTER FIRE TRUCK TURNING TEMPLATE
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

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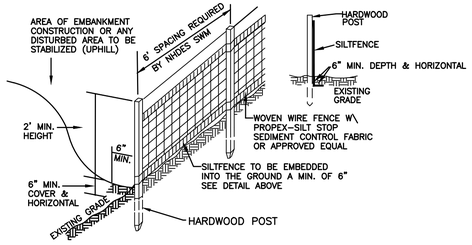
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14247
LICENSED PROFESSIONAL ENGINEER

E1



SILT FENCE CONSTRUCTION SPECIFICATIONS

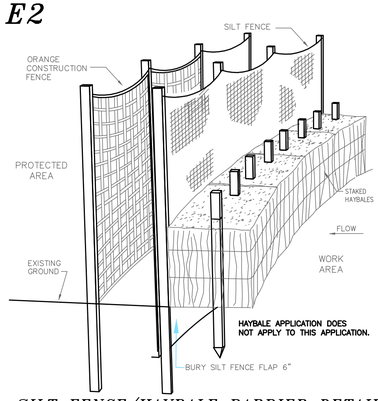
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN 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.

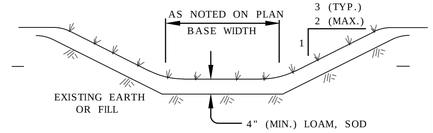
SILT FENCE DETAIL
NOT TO SCALE

E2



SILT FENCE/HAYBALE BARRIER DETAIL
THIS METHOD TO BE USED ALONG THE REAR OF THE PROPERTY
NOT TO SCALE

E3



SWALE
NOT TO SCALE

INSPECT ANNUALLY FOR EROSION, SEDIMENT ACCUMULATIONS, VEGETATION LOSS, & INVASIVE SPECIES. REPAIR AS NECESSARY.

MOW GRASS ANNUALLY TO A DEPTH OF 4".

INSTALL STABILIZATION MATTING DURING CONSTRUCATION

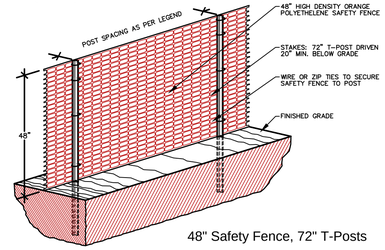
TO BE CONSTRUCTED IAW NH SWM #2 CHAPTER 4, #5 TREATMENT SWALES, PAGE 123.

E4

CONSTRUCTION SAFETY FENCE
NOT TO SCALE

LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C..
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C..
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

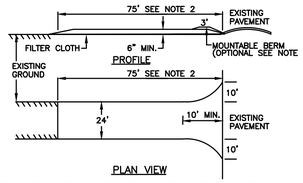


48" Safety Fence, 72" T-Posts

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 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.

E5

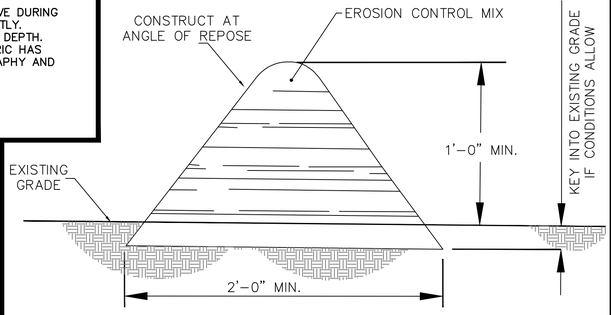
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CONSTRUCTION EXIT, PAGE 124.

E6

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 CLOSLY 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. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
5. THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
6. 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.
7. THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
8. THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
9. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 106.

E7

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 FIFTY (50) 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.

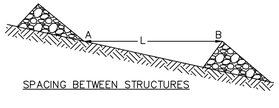
E8 *TEMPORARY EROSION CONTROL MEASURES*

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 0.5" 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 SPLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
11. STABILIZATION MEANS:
    - 11.1 BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
    - 11.2 A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED..
    - 11.3 A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
    - 11.4 OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY 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)

E9

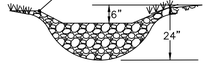
STONE CHECK DAM
NOT TO SCALE

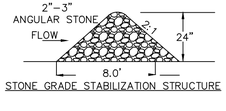
THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN STRUCTURES

NOTE: KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIUM OF 18" TO PREVENT FLOW AROUND THE DAM.

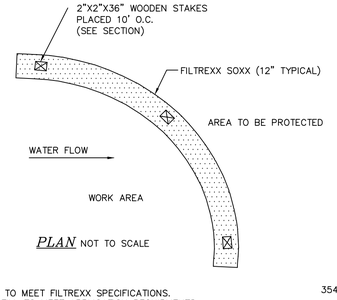




STONE GRADE STABILIZATION STRUCTURE

1.) CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
2.) THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THEN ONE ACRE.
3.) THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.
4.) THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER EDGES.
5.) THE MAXIMUM SPACING IS AS SHOWN ON THE PROJECT SITE PLANS.
6.) CHECK DAMS WILL NOT BE USED IN A FLOWING STREAM.
7.) TEMPORARY CHECK DAMS WILL BE REMOVED ONCE THE SWALE OR DITCH IS DETERMINED STABLE..
8.) TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CHECK DAMS, PAGE 114.

E10

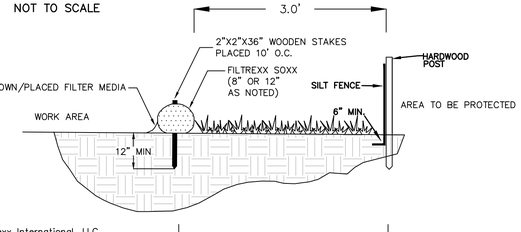


PLAN NOT TO SCALE

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 FILTREXXIN TERNATIONAL, 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



Filtrexx 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

E11

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

REVISION	DATE	DESCRIPTION

SEDIMENT AND EROSION CONTROL DETAILS
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

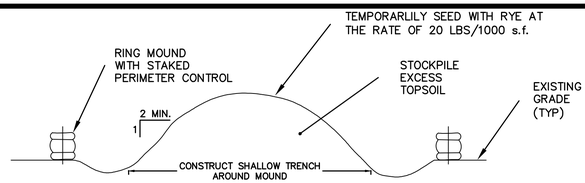
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS MARKED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14241
LICENSED PROFESSIONAL ENGINEER

E-101

E12



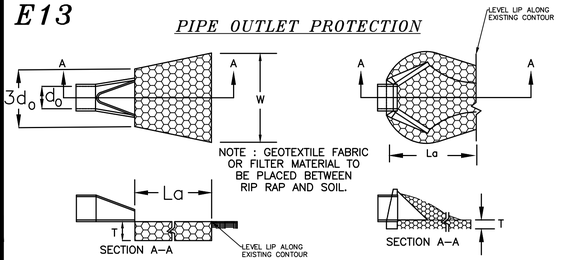
TO BE CONSTRUCTED IAW NH SWM #3 4–1 EROSION CONTROL PRACTICES, SOIL STOCKPILE PRACTICES, PAGE 46.

TOPSOIL STOCKPILE MOUND

NOT TO SCALE

E13

PIPE OUTLET PROTECTION



PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

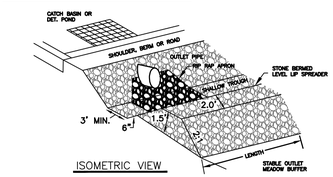
PIPE OUTLET TO WELL–DEFINED CHANNEL

PIPE OUTLET PROTECTION CONSTRUCTION SPECIFICATIONS

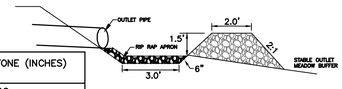
1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS SPECIFIED GRADATION.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO NHDOT SECTION 583.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. TO BE CONSTRUCTED IAW NH SWM #2 4–6 CONVEYANCE PRACTICES, 6. OUTLET PROTECTION, PAGE 172.

E14

STONE BERM LEVEL SPREADER



ISOMETRIC VIEW

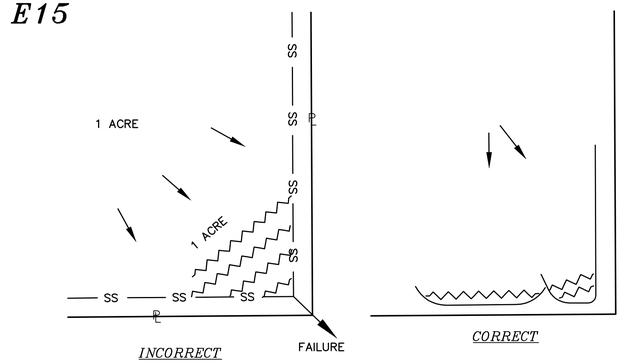


CROSS SECTION

SIEVE DESIGNATION	SIZE OF STONE (INCHES)
100%	12
84–100%	6
68–83%	3
42–55%	1
8–12%	NO. 4

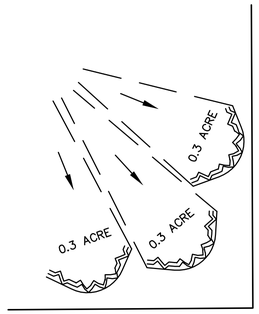
1. CONSTRUCT THE LEVEL SPREADER LIP ON A 0% GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
3. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING EXCELSIOR ENFORCER MATTING BENEATH THE STONE. EACH STRIP SHALL OVERLAP BY AT LEAST SIX INCHES.
4. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE–CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
5. MAINTENANCE: THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND THE DESIGN CONDITIONS HAVE NOT CHANGED. ANY DETRIMENTAL SEDIMENT ACCUMULATION SHOULD BE REMOVED. IF STONE REMOVAL HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED.
6. REFERENCE IS MADE TO NHDES SWM VOL. 2, 4–6, STONE BERM LEVEL SPREADERS, PAGE 162

E15



INCORRECT

CORRECT



CORRECT

NOTES

1. DO NOT LAYOUT SILT SOXX ALONG PROPERTY PERIMETER WITHOUT INSTALLING "J HOOKS" AT HIGH CONCENTRATION AREAS. RUNOFF WILL CONCENTRATE AND CAUSE FAILURES ALONG THE PERIMETER.
2. "J HOOKS" CAN BE USED TO HELP LIMIT THE CONCENTRATION OF RUNOFF AND PROVIDE MORE STABILITY TO THE PERIMETER.
3. SEE HAMPSHIRE STORM WATER MANUAL: VOLUME 3, PAGE 99 FOR FURTHER DETAILS AND SPECIFICATIONS

SILT SOXX "J HOOKS"

NOT TO SCALE

E16

NOTE: 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.

NOTE: Temporary seed mix for stabilization of turf shall be winter rye or oats at a rate of 2.5 lbs. per 1000 s.f. and shall be placed prior to OCT. 15, if permanent seeding not yet complete.

SEEDING GUIDE

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	FAIR	GOOD	EXCELLENT
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH–PM–24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7–36.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

* RECOMMENDED

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH OR	15	0.35
FLAT PEA	30	0.70
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	24	0.55
CREEPING RED FESCUE	24	0.55
BIRDS FOOT TREFOIL	REMOVED	REMOVED
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 2/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.80

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
   A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
   A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
   B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEED BED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. ESTABLISHING A STAND
   A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
   AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100LBS. PER 1,000 SQ.FT.
   NITROGEN(N), 50LBS. PER ACRE OR 1.1LBS. PER 1,000 SQ.FT.
   PHOSPHATE(P2O5), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   POTASH(K2O), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   (NOTE: THIS IS THE EQUIVALENT OF 500LBS. PER ACRE OF 10–20–20 FERTILIZER OR 1,000LBS. PER ACRE OF 5–10–10.)
   B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE(G–E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H–E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
   D. 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 10 TO SEPTEMBER 1.
4. MULCH
   A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90LBS PER 1000 S.F.
5. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
   B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
   C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.
6. TO BE CONSTRUCTED IAW NH SWM #3 4–1 EROSION CONTROL PRACTICES, PERMANENT VEGETATION, PAGE 60.

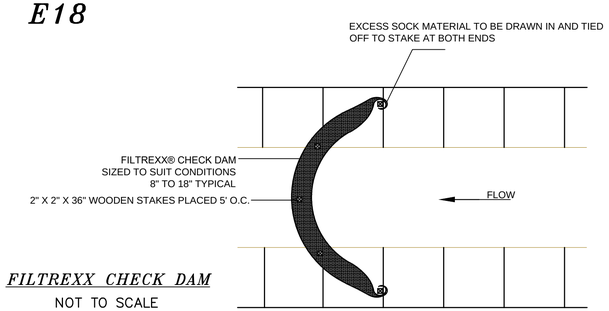
CONSERVATION MIX	POUNDS PER ACRE	POUNDS PER 1,000 S.F.
RED FESCUE (35%)	75	1.75
TALL FESCUE (25%)	55	1.25
ANNUAL RYEGRASS (12%)	33	0.75
PERENNIAL RYEGRASS (10%)	26	0.60
KENTUCKY BLUEGRASS (10%)	22	0.50
WHITE CLOVER (3%)	7	0.15

E17

WINTER STABILIZATION NOTES

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3–4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.
2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.
3. PRIOR TO NOV. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15–25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.
4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3–4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

E18

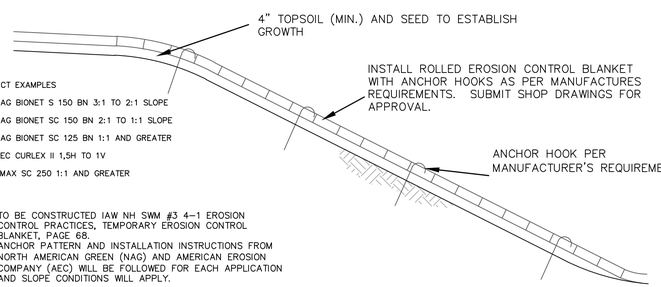


FILTREXX CHECK DAM

NOT TO SCALE

NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
4. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
5. CONTRACTOR IS REQUIRED TO BE A FILTREXX CERTIFIED™ INSTALLER.

E19



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 CURLEX II 1,5H TO 1V
5.) VMAX SC 250 1:1 AND GREATER

1. TO BE CONSTRUCTED IAW NH SWM #3 4–1 EROSION CONTROL PRACTICES, TEMPORARY EROSION CONTROL BLANKET, PAGE 68.
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.

ROLLED EROSION CONTROL BLANKET (RECB)
SLOPE STABILIZATION DETAIL

NOT TO SCALE

E20 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 (PE), 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.

E–102

REVISION	DATE	DESCRIPTION

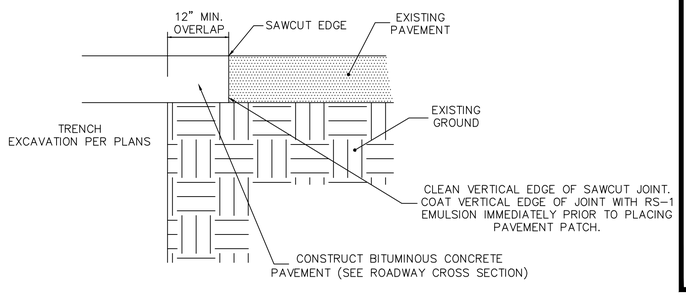
SEDIMENT AND EROSION CONTROL DETAILS
LAND OF
DAVID S. THAYER
22–24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

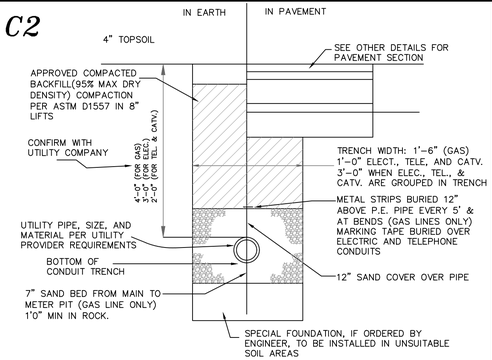
SCALE : AS MARKED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 – 057

STATE OF NEW HAMPSHIRE – KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER

C1

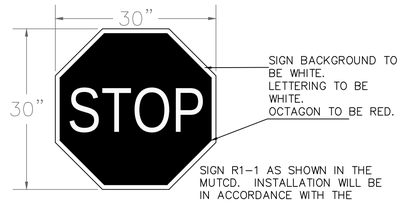


C2



ELECTRICAL, TELEPHONE, AND GAS TRENCH
NOT TO SCALE

C3



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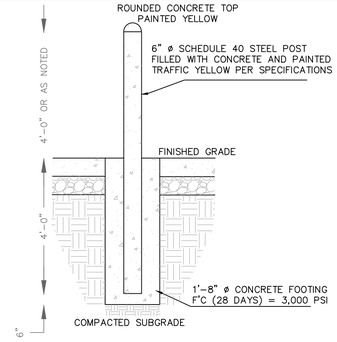
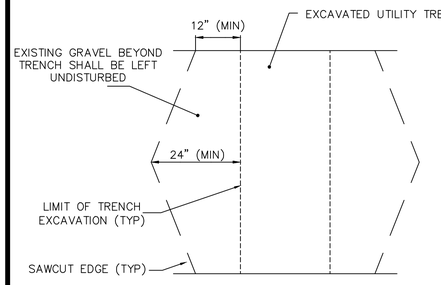
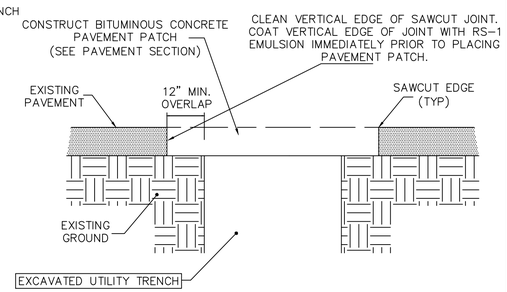


BOLLARD DETAIL
NOT TO SCALE



PLAN



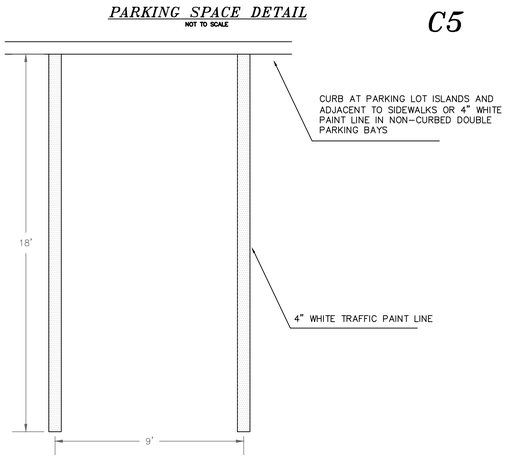
SECTION

NOTES
1. MACHINE CUT EXISTING PAVEMENT.
2. ALL TEMPORARY, DAMAGED, OR DEFECTIVE PAVEMENT SHALL BE REMOVED PRIOR TO PLACEMENT OF PERMANENT TRENCH REPAIRS.
3. DIAMOND PATCHES, SHALL BE REQUIRED FOR ALL TRENCHES CROSSING ROADWAY. DIAMOND PATCHES SHALL MEET NHDOT REQUIREMENTS.

TYPICAL TRENCH PATCH
NOT TO SCALE

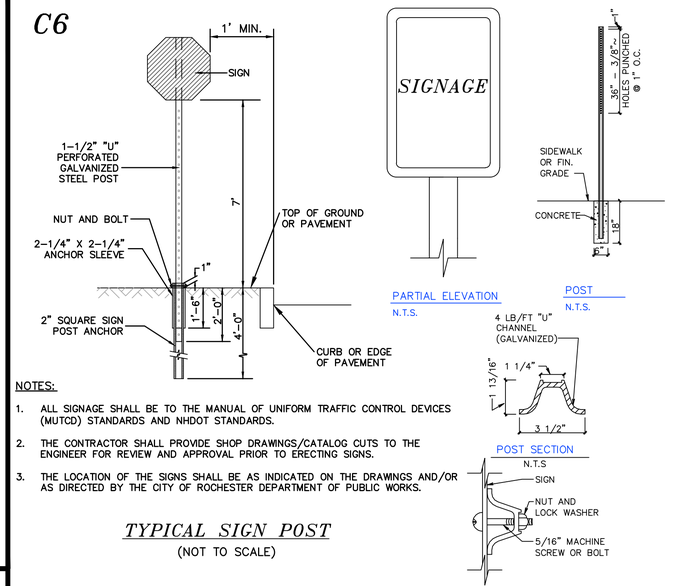
C5

PARKING SPACE DETAIL
NOT TO SCALE



NOTES:
1.) PROVIDE TWO COATS OF PAINT ON ALL PARKING LINES.
2.) SEE PROPOSED SITE PLANS FOR LOCATION OF PARKING SPACES.
3.) PAINTED SPACES ONLY WHERE MARKED ON SITE PLAN

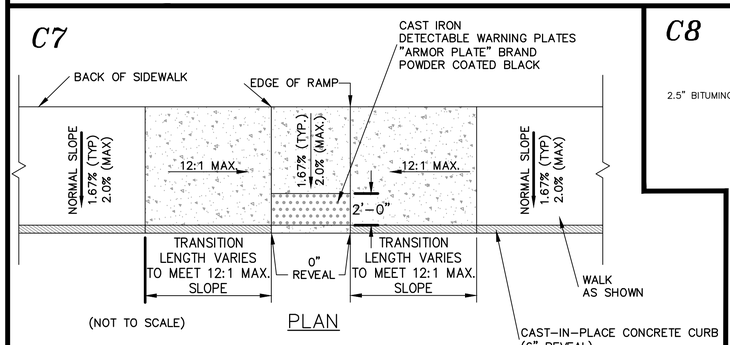
C6



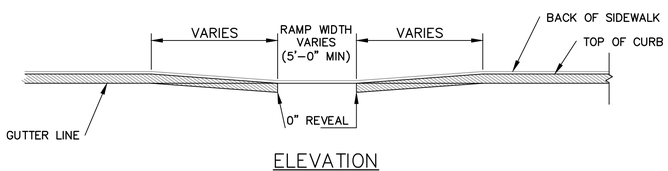
NOTES:
1. ALL SIGNAGE SHALL BE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND NHDOT STANDARDS.
2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS/CATALOG CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ERECTING SIGNS.
3. THE LOCATION OF THE SIGNS SHALL BE AS INDICATED ON THE DRAWINGS AND/OR AS DIRECTED BY THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS.

TYPICAL SIGN POST
(NOT TO SCALE)

C7



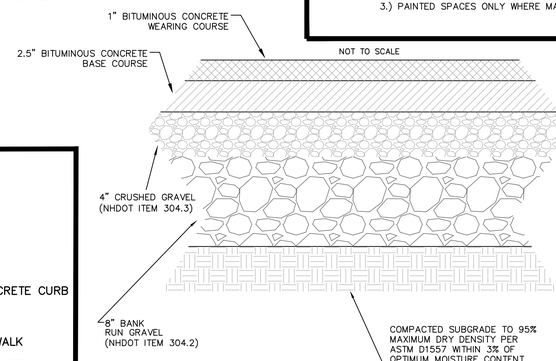
(NOT TO SCALE) PLAN



ELEVATION
NOT TO SCALE

TYPICAL DETAIL FOR WHEELCHAIR RAMP
NOT TO SCALE

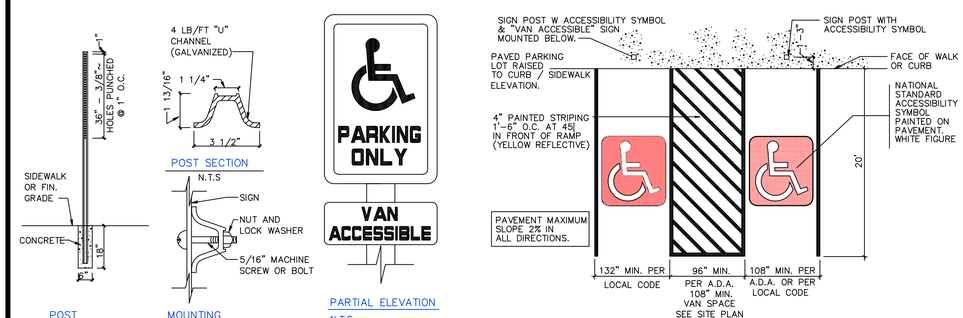
C8



NOTES:
1.) BITUMINOUS MATERIALS SHALL CONFORM TO NHDOT SPECIFICATION SUBSECTION 401.3.6.
2.) PAVEMENT BASE COURSE AGGEGATE SHALL CONFORM TO NHDOT SPECIFICATION SECTION 304, ITEM 304.3 AND COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
3.) PAVEMENT SUBBASE COURSE AGGREGATE AND AGGREGATE FOR SUBGRADE REPAIR AREAS SHALL BE SUITABLE FOR USE AS STRUCTURAL FILL AND BE PROOFROLLED AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.

BITUMINOUS CONCRETE PAVEMENT SECTION
NOT TO SCALE

C9



PARKING STALL SIGNAGE FOR THE PHYSICALLY CHALLENGED
NOT TO SCALE

C-101

REVISION	DATE	DESCRIPTION

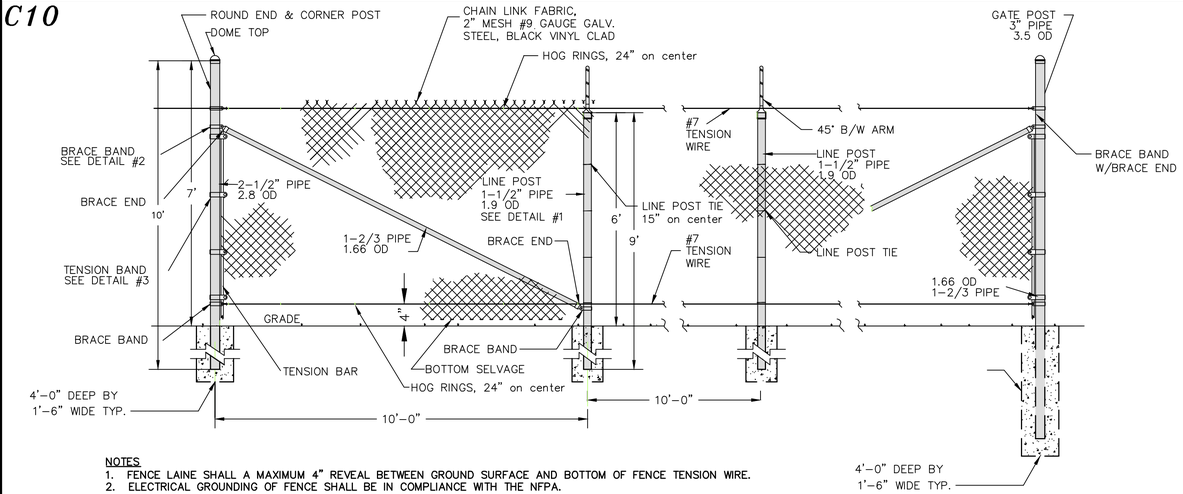
CONSTRUCTION DETAILS
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS MARKED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14241
LICENSED PROFESSIONAL ENGINEER

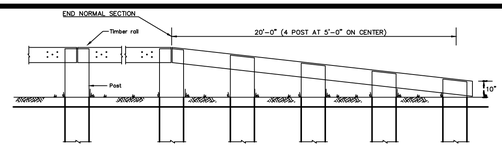
C10



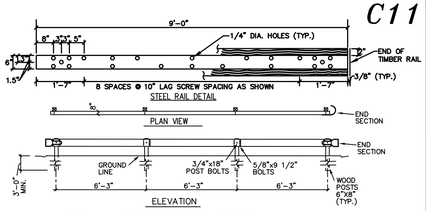
NOTES
1. FENCE LAINE SHALL A MAXIMUM 4" REVEAL BETWEEN GROUND SURFACE AND BOTTOM OF FENCE TENSION WIRE.
2. ELECTRICAL GROUNDING OF FENCE SHALL BE IN COMPLIANCE WITH THE NFPA.

TYPICAL 6' HIGH CHAIN LINK FENCE WIRE
NOT TO SCALE

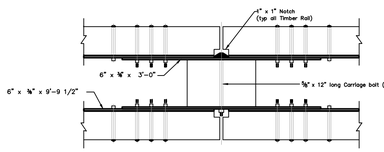
C11



STEEL BACKED WOOD GUARD RAIL
TERMINAL UNIT DETAIL



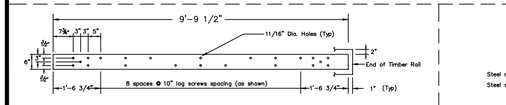
NOTES:
1. USE IN HEAVY TRAFFIC AREAS.
2. USE 6'-0" POSTS WHEN FILL SLOPE IS 4:1 OR FLATTER
3. ALL RAILS & POSTS TO BE TREATED WITH PRESERVATIVE MATERIAL CONFORMING TO AASHTO M133



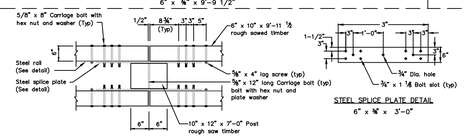
POST/RAIL CONNECTION DETAIL

NOTES:
1. POST TYPE : 10" x 12" WOOD
2. BEAM TYPE : 6" x 10" WOOD WITH STEEL PLATE BACKING
3. POST SPACING : 5'-0" O.C.
4. NOMINAL BARRIER HEIGHT : 27"

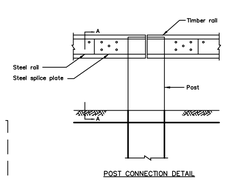
GUARD RAIL (STEEL BACKED WOODEN RAIL)
NOT TO SCALE



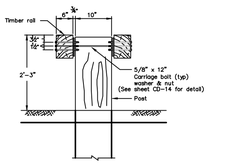
STEEL RAIL DETAIL
6" x 3/4" x 9'-9 1/2"



STEEL SPLICE PLATE DETAIL
6" x 3/4" x 3'-0"



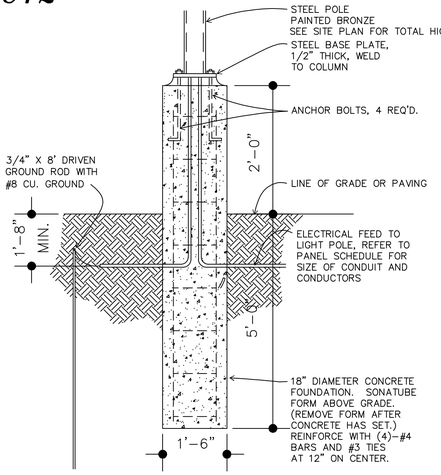
POST CONNECTION DETAIL



SECTION A-A

NOTES:
1. POST TYPE : 10" x 12" WOOD
2. BEAM TYPE : 6" x 10" WOOD WITH STEEL PLATE BACKING
3. POST SPACING : 10'-0" O.C.
4. NOMINAL BARRIER HEIGHT : 27"
5. STEEL PLATE BACKING AND SPLICE PLATE – A36 GALVANIZED STEEL
6. ALL BOLTS & WASHERS TO BE GALVANIZED

C12



POLE FOUNDATION

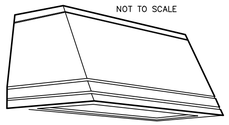
LIGHT BASE DETAIL
SCALE: NONE

C13

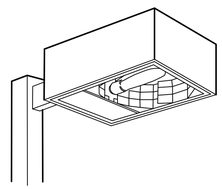
TYPICAL RESIDENTIAL LAMP "B"
NOT TO SCALE

C14

WALL MOUNTED LIGHTING LAMP "C & D"
NOT TO SCALE

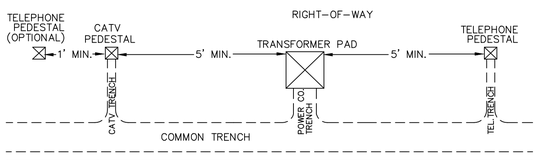


C15



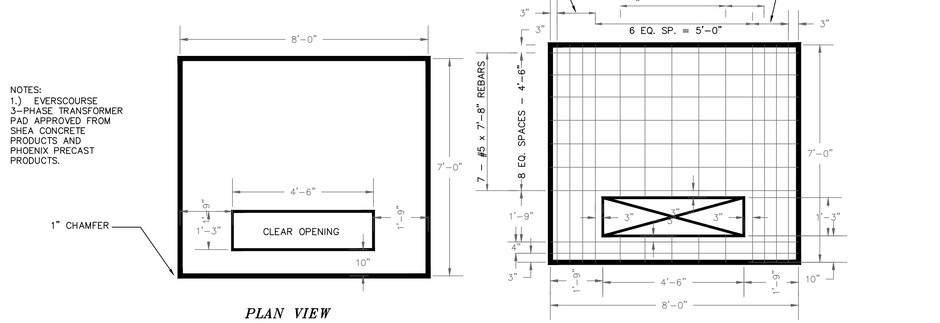
POLE MOUNTED LIGHTING LAMP "A"
NOT TO SCALE

C16



PEDESTAL PLACEMENT

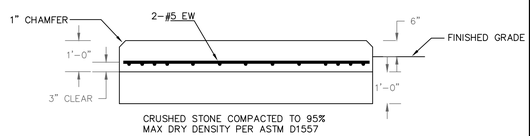
C17



NOTES:
1.) EVERSCOURSE 3-PHASE TRANSFORMER PAD APPROVED FROM SHEA CONCRETE PRODUCTS AND PHOENIX PRECAST PRODUCTS.

PLAN VIEW

PLAN OF REINFORCING



CRUSHED STONE COMPACTED TO 95% MAX DRY DENSITY PER ASTM D1557

SECTION VIEW

NOTES:
1.) CONFIRM SIZE WITH ELECTRIC COMPANY BEFORE CONSTRUCTION.
2.) USE LOCAL ELECTRIC COMPANY DETAILS AS REQUIRED.

TRANSFORMER PAD DETAIL
NOT TO SCALE

REVISION	DATE	DESCRIPTION

CONSTRUCTION DETAILS
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 276, LOTS 2 & 3

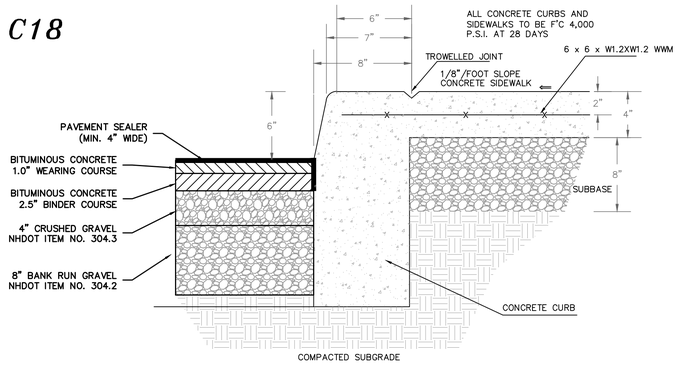
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS MARKED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE - KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER

C-102

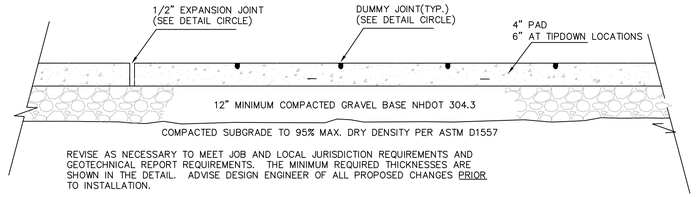
C18



CURB DETAIL WITH MONOLITHIC SIDEWALK

NOT TO SCALE

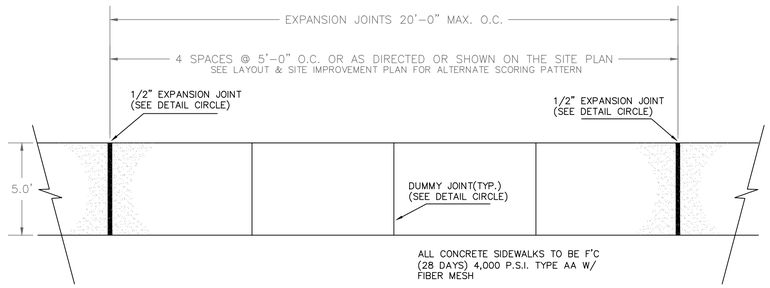
C19



REVISE AS NECESSARY TO MEET JOB AND LOCAL JURISDICTION REQUIREMENTS AND GEOTECHNICAL REPORT REQUIREMENTS. THE MINIMUM REQUIRED THICKNESSES ARE SHOWN IN THE DETAIL. ADVISE DESIGN ENGINEER OF ALL PROPOSED CHANGES PRIOR TO INSTALLATION.

CONCRETE SIDEWALK

NOT TO SCALE



ALL CONCRETE SIDEWALKS TO BE F'C (28 DAYS) 4,000 P.S.I. TYPE AA W/ FIBER MESH

NOTES:

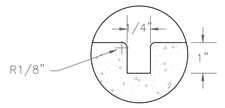
1.) PROVIDE EXPANSION JOINT MATERIAL WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER PLUS SEALANT FLUSH WITH ADJACENT CONCRETE SURFACE.

2.) SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.

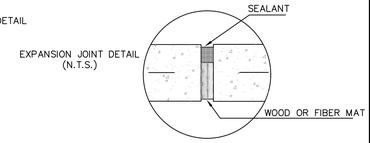
3.) PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURM RAMP INCLUDING FLARED SIDE RAMPS.

4.) CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK PITCH.

5.) WHENEVER POSSIBLE, CONSTRCT THE TRANSITION SLOPE FROM THE CURB RAMP AND FLARE SIDES TO ADJOINING SURFACES WITH A GRADUAL CURVE RATHER TAN AN ABRUPT ANGLE.



DUMMY JOINT DETAIL (N.T.S.)



EXPANSION JOINT DETAIL (N.T.S.)

C20

NOTES:

1.) THE PROPOSED APPLICATION FOR THIS LOCK BLOCK OR EQUAL (AS DETERMINED BY THE DESIGN ENGINEER WITH APPROVAL BY DEPARTMENT OF PUBLIC WORKS (BS&E 603-332-2863) (DPW 603-335-7575) IS FOR A WALL THAT RANGES IN HEIGHT FROM 13 FEET TO 20 FEET IN HEIGHT.

2.) USE THE 41" BOTTOM BLOCK TO INSTALL THE FIRST COURSE. NOTE EMBEDMENT REQUIREMENT. COURSE DEPTH IS 1.5'

3.) USE 41" MIDDLE BLOCK FOR MIDDLE ROWS, APPROXIMATELY 7 COURSES DEPENDING ON WALL HEIGHT.

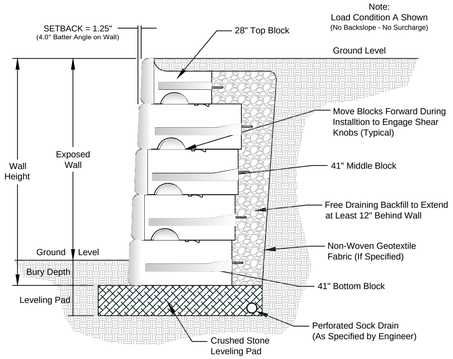
4.) USE 41" TOP BLOCK ALONG TOP OF WALL. NOTE WALL DROPS ARE TO BE FULL BLOCK DEPTHS.

5.) USE 41" HALF BLOCKS FOR RADIAL TURNS AND END SECTIONS.

6.) THE WALL MANUFACTURER TYPICALLY PROVIDES WALL PROFILE AND BLOCK COUNT TO THE CONTRACTOR AS REQUIRED FOR CONSTRUCTION. THIS IS TO BE REVIEWED BY BOTH DPW AND DESIGN ENGINEER FOR CORRELATION WITH PROJECT SITE PLANS.

Typical Gravity Wall with 41" Blocks

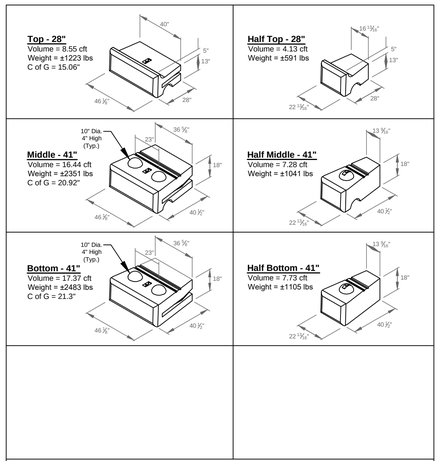
No Scale



See Redi-Rock.com for Detailed Section Drawings of Each Condition Shown in the Design Charts

NOTE: RETAINING WALL TO BE DESIGNED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER.

41" SERIES BLOCKS



NOTES:

Volume and Center of Gravity (C of G) calculations are based on the blocks as shown.

Center of Gravity is measured from the back of the block.

Half blocks may include a fork lift slot on one side.

Actual weights and volumes may vary.

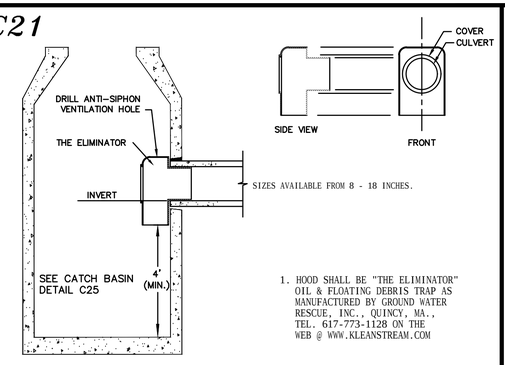
Weight shown is based on 143 pcf concrete.

Redi-Rock© International, LLC

RETAINING WALL DETAIL

NOT TO SCALE

C21

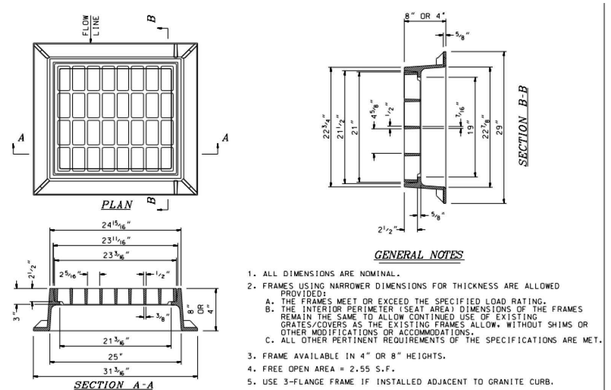


1. HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB @ WWW.KLEANSTREAM.COM

CATCH BASIN HOOD DETAIL

NOT TO SCALE

C22



GENERAL NOTES

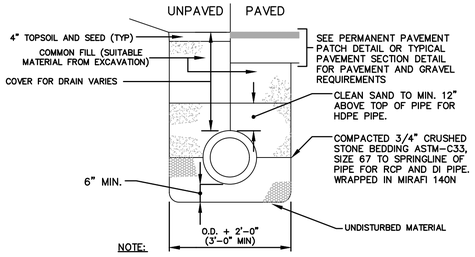
1. ALL DIMENSIONS ARE NOMINAL.
2. FRAMES USING NARROWER DIMENSIONS FOR THICKNESS ARE ALLOWED PROVIDED:
   A. THE FRAMES MEET OR EXCEED THE SPECIFIED LOAD RATING.
   B. THE INTERIOR PERIMETER (SEAT AREA) DIMENSIONS OF THE FRAMES REMAIN THE SAME TO ALLOW CONTINUED USE OF EXISTING GRATES/COVERS AS THE EXISTING FRAMES ALLOW, WITHOUT SHIMS OR OTHER MODIFICATIONS OR ACCOMMODATIONS.
   C. ALL OTHER PERTINENT REQUIREMENTS OF THE SPECIFICATIONS ARE MET.
3. FRAME AVAILABLE IN 4" OR 8" HEIGHTS.
4. FREE OPEN AREA = 2.55 S.F.
5. USE 3-FLANGE FRAME IF INSTALLED ADJACENT TO GRANITE CURB.

NHDOT STANDARD PLANS

TYPE "B" GRATE & FRAME

REV. DATE	PLATE
06-16-2010	2
08-14-2015	STANDARD DR-1

C24



NOTE:

PLASTIC DRAIN PIPE (HDPE) SHALL BE ADS N-12 (CORRUGATED EXTERIOR/SMOOTH INTERIOR) OR EQUAL MEETING AASHTO M-252 AND H-20 LOADING.

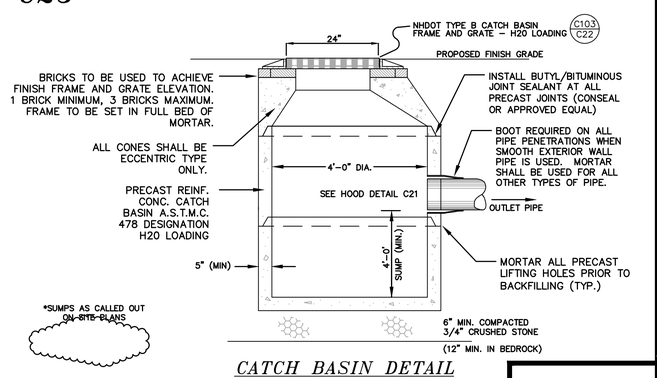
DI DRAIN PIPE SHALL BE CL. 50.

RC DRAIN PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.

TYPICAL DRAIN PIPE TRENCH

NOT TO SCALE

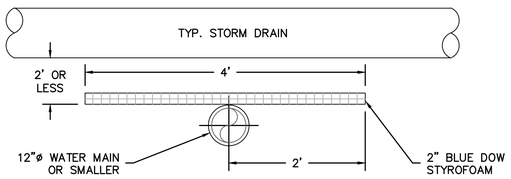
C25



CATCH BASIN DETAIL

NOT TO SCALE

C23



INSULATE WATER PIPE WHERE CROSSING UNDER CULVERT

REVISION	DATE	DESCRIPTION

CONSTRUCTION DETAILS
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS MARKED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE - KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER

C-103

U1

1.) SEE DETAILS FOR SERVICE CONNECTION REQUIREMENTS

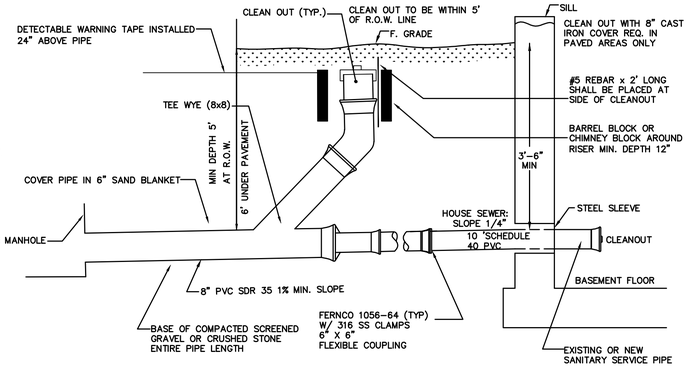
2.) SERVICE CONNECTION SHALL BE INSTALLED BELOW WATER MAIN WHERE POSSIBLE.

3.) CLEANOUTS SHALL BE INSTALLED AT EACH SERVICE CONNECTION.

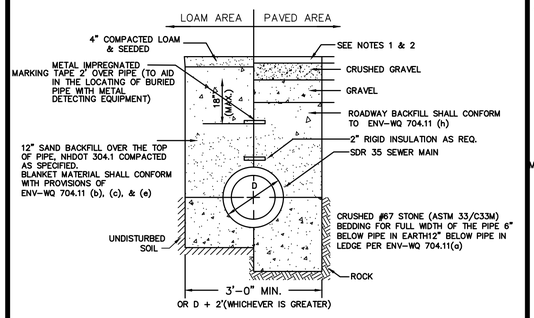
4.) REBAR SHALL BE PLACED AT SIDE OF CLEANOUT.

5.) CLEANOUT SHALL BE USED TO PLUG AND TEST ALL NEW LATERALS WITH MINIMAL INTERRUPTION TO OPERATION OF HOMEOWNER SANITARY SYSTEM

6.) CLEANOUT RISER PIPE AND FITTINGS SHALL BE INSTALLED AT THE TIME OF RESIDENTIAL CONNECTION, AND IS NOT PART OF ROAD CONSTRUCTION.



U2

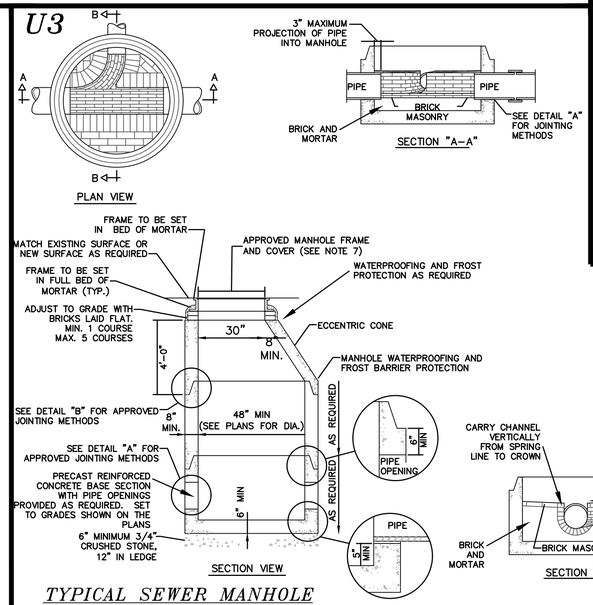


NOTE:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECS.

TYPICAL SEWER TRENCH DETAIL

NOT TO SCALE

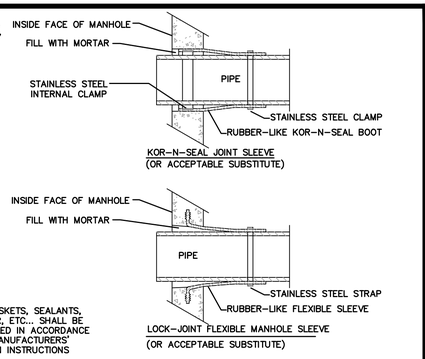
U3



TYPICAL SEWER MANHOLE

NOT TO SCALE

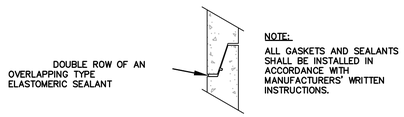
U3a



ALL GASKETS, SEALANTS, MORTAR, ETC... SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS

DETAIL "A" – PIPE TO MANHOLE JOINTS

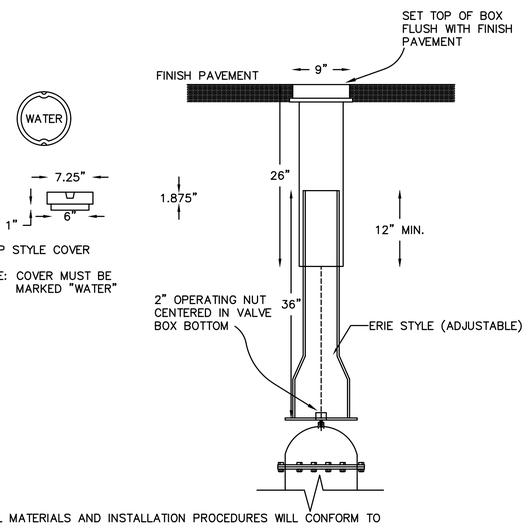
NOT TO SCALE



DETAIL "B" HORIZONTAL JOINTS

NOT TO SCALE

U4



NOTES:
1.) ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO LOCAL WATER WORKS TECHNICAL SPECIFICATIONS.

2.) ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 6' FROM TOP OF PIPE TO FINISH GRADE.

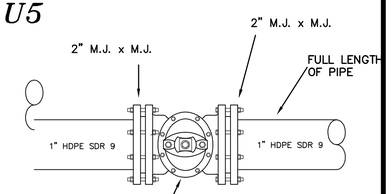
VALVE BOX DETAIL

NOT TO SCALE

NOTES ON MANHOLE CONSTRUCTION

1) IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN ON THE DRAWING. MANHOLES SHALL BE AN ASSEMBLY OF PRECAST SECTIONS, WITH STEEL REINFORCEMENT AND ADEQUATE JOINTING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND HS-20-44 LOADING, INCLUDING THE COVER. ALL SMH CONSTRUCTION AND MATERIALS WILL BE IAW ENV.-WQ 704.13 ADOPTED OCTOBER 15, 2014
2) BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE. (IAW ENV.-WQ 704.12 (d))
3) SEWER MANHOLE DIAMETER SHALL BE AS INDICATED ON THE PLANS.
4) PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478.
5) GRAVITY SEWER PIPE TESTING WILL BE IN ACCORDANCE WITH ENV.-WQ 704.06 AND MAN HOLE TESTING IAW ENV.-WQ 704.17 DATED OCTOBER 15, 2014.
6) INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF THE PIPE AND FLOW. INVERT BRICKS SHALL BE LAID ON EDGE AND THE BASE SECTION SHALL BE FULL. AT CHANGES IN DIRECTIONS, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. (IAW ENV.-WQ 704.13 (a) (9)), MORTAR SHALL CONFORM WITH REQUIREMENTS OF ENV-WQ 704.13 (c).
7) FRAMES AND COVERS: MANHOLES FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. 3-INCH (MINIMUM HEIGHT) LETTERS WITH THE WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH MANHOLE COVER. (IAW ENV.-WQ 704.13 (c) (4-6)) SEWER MAN HOLE COVERS ARE TO PAMREX.
8) SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H-20 LOADS.
9) HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ROCHESTER DPW, WHICH TYPE SHALL IN GENERAL, DEPEND FOR WATERTIGHTNESS UPON A DOUBLE ROW OF AN OVERLAPPING TYPE ELASTOMERIC OR MASTIC-LIKE GASKET. APPROVED ELASTOMERIC SEALANTS ARE: RAM-NEK, KENT SEAL NO. 2, EZ, OR EQUAL.
10) IN CROSS COUNTRY AREAS OUTSIDE OF THE PAVED ROADWAY SURFACE, THE MANHOLE FRAME ELEVATION SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE.
11.) ALL FRAMES AND GRATES ARE TO BE U.S.A. MADE. MANHOLE STEPS ARE PROHIBITED IN THE CITY OF ROCHESTER.

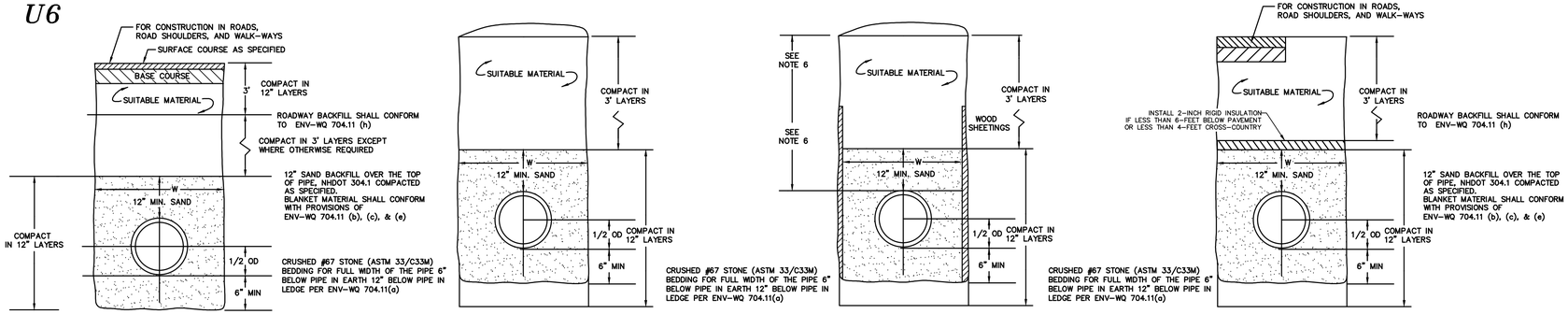
U5



SHUTOFF VALVE DETAIL

NOT TO SCALE

U6



LEDGE CONSTRUCTION

NOT TO SCALE

EARTH CONSTRUCTION

NOT TO SCALE

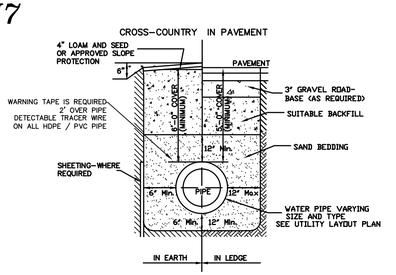
EARTH CONSTRUCTION WITH SHEETING

NOT TO SCALE

TRENCH INSULATION

NOT TO SCALE

U7



TYPICAL TRENCH DETAIL FOR WATER SYSTEM

NOT TO SCALE

U-101

REVISION	DATE	DESCRIPTION

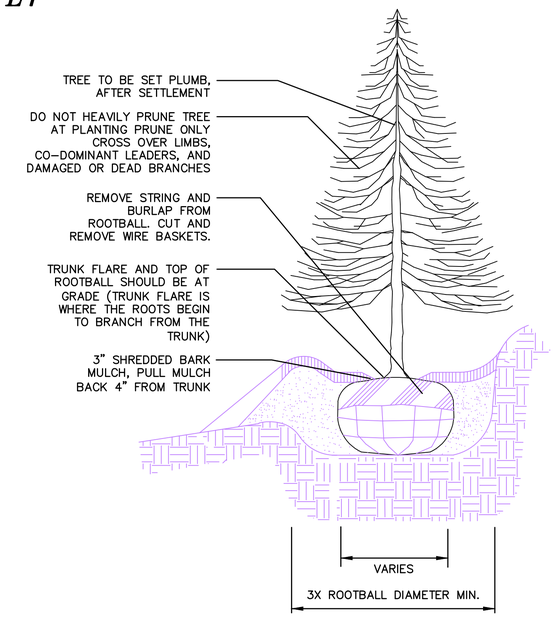
UTILITY DETAILS
LAND OF
DAVID S. THAYER
22-24 FARMINGTON ROAD, ROUTE 11
ROCHESTER, NH 03867
TAX MAP 216, LOTS 2 & 3

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS MARKED
DATE : OCTOBER 9, 2018
FILE NO. : DB 2015 - 057

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED PROFESSIONAL ENGINEER

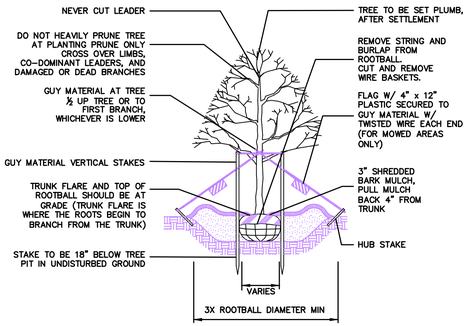
L1



NOTES:
1. DO NOT STAKE EVERGREEN TREES.
2. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
3. TAMP BACKFILL SOIL AROUND ROOTBALL FIRMLY TO MINIMIZE ROOTBALL SHIFT.

EVERGREEN TREE PLANTING

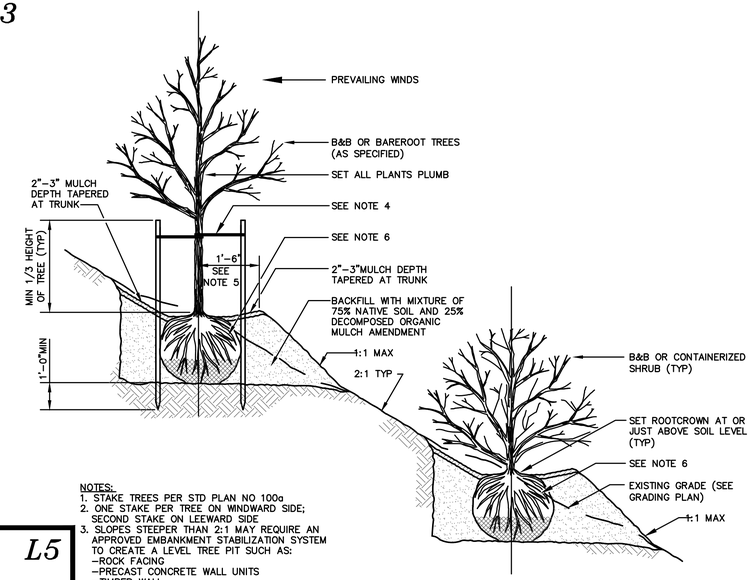
L2



NOTES:
1. GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
2. TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
5. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
6. CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 5 FEET FROM THE EDGE OF THE CITY SIDEWALK.

DECIDUOUS TREE PLANTING

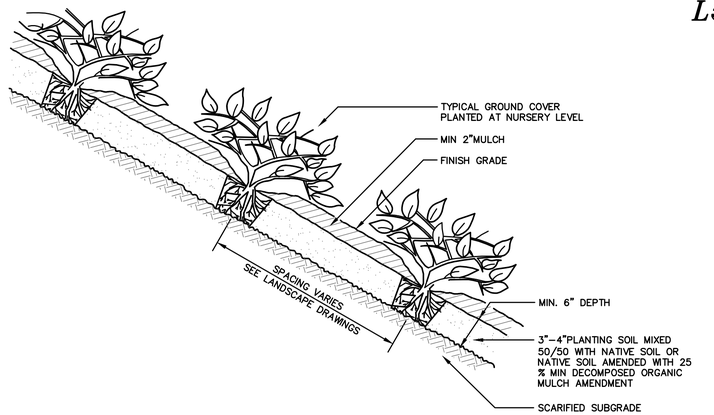
L3



NOTES:
1. STAKE TREES PER STD PLAN NO 100a
2. ONE STAKE PER TREE ON WINDWARD SIDE; SECOND STAKE ON LEEWARD SIDE
3. SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
   - –ROCK FACING
   - –PRECAST CONCRETE WALL UNITS
   - –TIMBER WALL
   - –MANUFACTURED SLOPE RETENTION UNITS
4. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
5. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
6. REMOVE ALL WIRE AND STRING. REMOVE TOP 2/3 OF BURLAP.

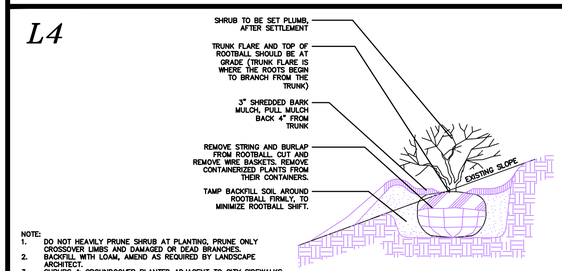
TREE PLANTING ON SLOPES

L5



TYPICAL SLOPE GROUND COVER PLANTINGS

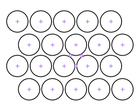
L4



NOTE:
1. DO NOT HEAVILY PRUNE SHRUB AT PLANTING, PRUNE ONLY CROSSOVER LIMBS AND DAMAGED OR DEAD BRANCHES.
2. BACKFILL WITH LOAM, AMEND AS REQUIRED BY LANDSCAPE ARCHITECT.
3. SHRUBS & GROUNDCOVER PLANTED ADJACENT TO CITY SIDEWALKS NEED TO BE PLACED SO THE PLANTS, AT THEIR MATURE HEIGHT & WIDTH, WILL NOT ENCROACH INTO THE CITY'S SIDEWALK.

TYPICAL SHRUB PLANTING

TYPICAL PERENNIAL PLANTING



TYPICAL BED PLANT SPACING

NOTE:
D = DIMENSION OF PLANT SPACING (SHRUB OR GROUNDCOVER AS INDICATED ON PLANS)

REVISION	DATE	DESCRIPTION

LANDSCAPING DETAILS
LAND OF
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STATE OF NEW HAMPSHIRE – KENNETH A. BERRY No. 14247 LICENSED PROFESSIONAL ENGINEER

L–101