

**Ross Engineering
Civil/Structural Engineering & Surveying**

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net

September 29, 2021
Portsmouth Planning Department
1 Junkins Ave
Portsmouth, NH 03801

**910 Sagamore Avenue
CONDITIONAL USE PERMIT**

RE: Karen Webb
910 Sagamore Ave
Portsmouth, NH 03801
Tax Map 223, Lot 26A

This project involves improvements to an existing single family residence. Currently there is a 10'x15' rear extension supported on posts. The owner would like to remove this extension and install a 16'x32' extension. Posts will support the structure and there will not be a full foundation, so minimal disturbance will occur. A conditional use permit is required as the work occurs within the 100' wetland buffer. No work occurs within the wetlands.

Proposed site improvements include:

1. Currently an older septic system with a leach field serves the house. The leach field is very close to the wetlands and does not meet current standards. The old system will be disconnected and the house will be connected to a new City sewer line. This will greatly benefit the wetland buffer and wetland water quality.
2. At the edge of the wooded area there are invasive species. Invasive bittersweet poses a significant threat to native plants. As part of the site work an effort to remove the accessible bittersweet will occur.
3. The area below the proposed addition will be a stone infiltration area for roof drainage and will benefit the wetland buffer area by keeping stormwater detained and not flowing on surfaces. This stormwater measure will increase groundwater recharge and reduce stormwater surface pollutant loading to surface waters nearby.
4. Wetland buffer plantings will be installed along the wetland delineation, providing protection to the wetlands.
5. NOFA – Northeast Organic Farming Association land care practices for design and maintenance will be followed.
6. 2,350 SF of non-tidal mowed grass area to be restored to a wetland area.

Sincerely,

Alex Ross, PE, LLS

SEE NOTE 2

N/F DEBRA M DUPONT
TAX MAP 223, LOT 33
RCRD 6039-419



TEST PIT #4 AS PER REF. PLAN #2

OBSERVED BY: SUSAN J. FARETRA #946
DATE OBSERVED: 10-31-18

*Observed Ground Water
@ 17"

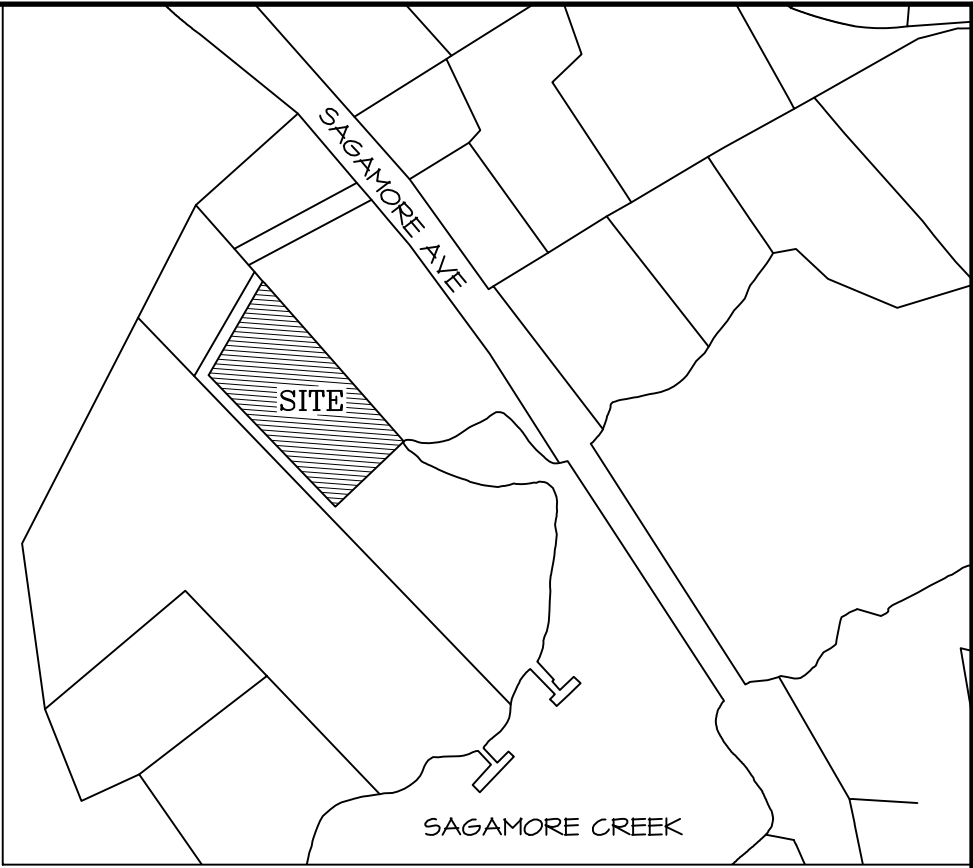
*Roots @ 17"

*Seasonal High Ground Water
(Mottling) @ 17"

0-4"	10YR 4/4 DARK YELLOWISH BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE
7-58"	2.5YR 4/3, OLIVE BROWN, PLATEY SILT LOAM, FRIABLE

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DRAINAGE FLOW PATH
- MONUMENT TO BE SET
- MONUMENT FOUND
- UTILITY POLE
- WETLAND
- GRAVEL DRIVEWAY/ROAD
- GRASS
- LANDSCAPING
- WATER
- SEWER MANHOLE
- GUTTER DOWNSPOUT



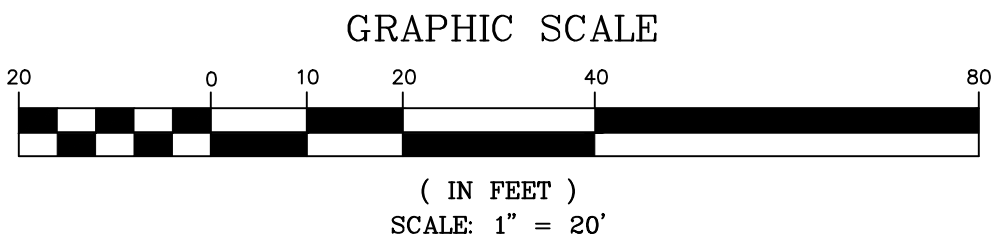
LOCUS PLAN
N.T.S.

NOTES

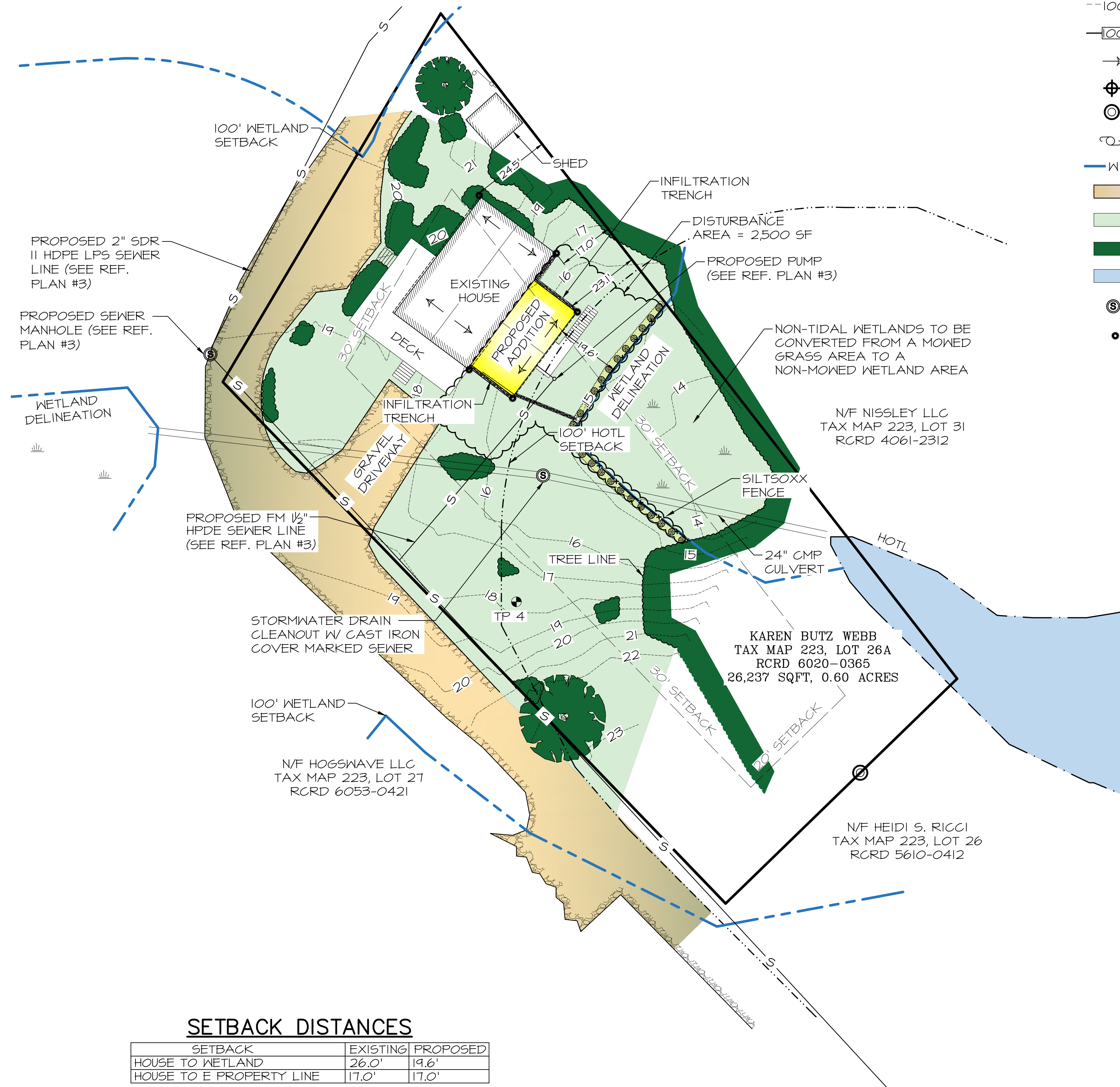
- OWNER OF RECORD:
KAREN BUTZ WEBB
TAX MAP 223, LOT 26A
910 SAGAMORE AVE
PORTSMOUTH, NH 03801
RCRD: 6020-0365
AREA: 26,237, 0.60 ACRES
- BASIS OF BEARING HELD FROM PLAN REFERENCE #1.
- PARCEL IS IN THE WATERFRONT BUSINESS ZONE (WB):
MINIMUM LOT AREA.....20,000 SF
MIN. LOT AREA PER DWELLING UNIT..... N/A
MINIMUM FRONTAGE.....100 FT
MINIMUM DEPTH.....100 FT
SETBACKS:
FRONT.....30 FT
SIDE.....30 FT
REAR.....20 FT
MAXIMUM BUILDING HEIGHT:
SLOPED ROOF.....35 FT
FLAT ROOF.....35 FT
MAXIMUM BUILDING COVERAGE.....30%
MINIMUM OPEN SPACE.....20%
- THE PARCEL IS PARTIALLY WITHIN FEMA FLOOD ZONE
AE (EL. 8'), AS PER FLOOD INSURANCE RATE MAP
#3301560286F, PANEL 286 OF 681, DATED JANUARY
29, 2021. VERTICAL DATUM IS NAVD 1988.

REFERENCE PLANS

- "WETLAND PERMIT PLAN" BY MSC, DATED
FEBRUARY 23, 2015. NOT RECORDED
- "INDIVIDUAL SEWAGE DISPOSAL SYSTEM
DESIGN: BY FARETRA SEPTIC DESIGN,
LLC, DATED NOVEMBER 18, 2018.
APPROVAL #eCA2019011417
- "CITY OF PORTSMOUTH, NH SAGAMORE
AVENUE SEWER EXTENSION PROJECT
SHEET C-13" BY WRIGHT-PIERCE, DATED
JANUARY, 2021.



2	9/29/2021	FOR PERMITS	
1	8/25/2021	PRELIMINARY	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCALE	1" = 20'		
CHECKED	A.ROSS		
DRAWN	D.D.D.		
CHECKED			
ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560			
CLIENT KAREN WEBB 910 SAGAMORE AVE. PORTSMOUTH, NH 03801			
TITLE BOUNDARY SURVEY & EXISTING CONDITIONS 910 SAGAMORE AVE. PORTSMOUTH, NH 03801 TAX MAP 223, LOT 26A			
JOB NUMBER	DWG. NO.	ISSUE	
21-077	1 OF 4	2	



SETBACK DISTANCES

SETBACK	EXISTING	PROPOSED
HOUSE TO WETLAND	26.0'	19.6'
HOUSE TO E PROPERTY LINE	17.0'	17.0'

LEGEND

- 100-- EXISTING CONTOUR
- 100--- PROPOSED CONTOUR
- DRAINAGE FLOW PATH
- ⊕ MONUMENT TO BE SET
- ⊙ MONUMENT FOUND
- ⊙ UTILITY POLE
- W WETLAND
- GRAVEL DRIVEWAY/ROAD
- GRASS
- LANDSCAPING
- WATER
- Ⓢ SEWER MANHOLE
- GUTTER DOWNSPOUT

NOTES

- 1) PARCEL IS IN THE WATERFRONT BUSINESS ZONE (WB):
- | | |
|--------------------------------------|-----------|
| MINIMUM LOT AREA..... | 20,000 SF |
| MIN. LOT AREA PER DWELLING UNIT..... | N/A |
| MINIMUM FRONTAGE..... | 100 FT |
| MINIMUM DEPTH..... | 100 FT |
- SETBACKS:
- | | |
|------------|-------|
| FRONT..... | 30 FT |
| SIDE..... | 30 FT |
| REAR..... | 20 FT |
- MAXIMUM BUILDING HEIGHT:
- | | |
|------------------|-------|
| SLOPED ROOF..... | 35 FT |
| FLAT ROOF..... | 35 FT |
- MAXIMUM BUILDING COVERAGE.....30%
- MINIMUM OPEN SPACE.....20%

2) COVERAGES

BUILDING COVERAGE	
EXISTING	
HOUSE.....	1232 SF
DECK & STAIRS.....	699 SF
BUMP OUT.....	150 SF
SHED.....	150 SF
TOTAL	2231 SF
BUILDING COVERAGE	8.5%
PROPOSED	
HOUSE.....	1232 SF
DECK & STAIRS.....	725 SF
SHED.....	150 SF
ADDITION.....	512 SF
TOTAL	2619 SF
BUILDING COVERAGE	10.0%

OPEN SPACE

EXISTING	
BUILDING COVERAGE.....	2231 SF
GRAVEL.....	2551 SF
TOTAL LOT COVERAGE	4782 SF
OPEN SPACE = 26231 - 4782 = 21455 SF	
OPEN SPACE = 81.8%	

PROPOSED	
BUILDING COVERAGE.....	2619 SF
GRAVEL.....	2551 SF
TOTAL LOT COVERAGE	5170 SF
OPEN SPACE = 26231 - 5170 = 21061 SF	
OPEN SPACE = 80.3%	

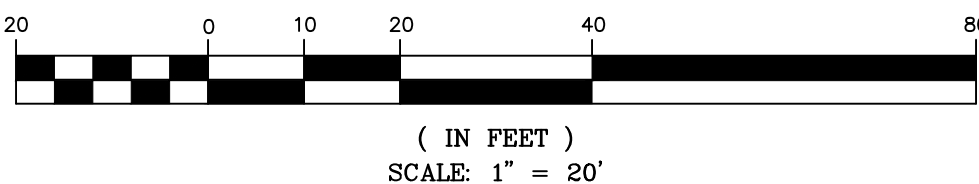
REFERENCE PLANS

- 1) "WETLAND PERMIT PLAN" BY MSC, DATED FEBRUARY 23, 2015. NOT RECORDED
- 2) "INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN: BY FARETRA SEPTIC DESIGN, LLC, DATED NOVEMBER 18, 2018. APPROVAL #6CA2019011417
- 3) "CITY OF PORTSMOUTH, NH SAGAMORE AVENUE SEWER EXTENSION PROJECT SHEET C-13" BY WRIGHT-PIERCE, DATED JANUARY, 2021.

PROPOSED IMPROVEMENTS

- 1) CURRENTLY AN OLDER SEPTIC SYSTEM WITH A LEACH FIELD SERVES THE HOUSE. THE LEACH FIELD IS VERY CLOSE TO THE WETLANDS AND DOES NOT MEET CURRENT STANDARDS. THE OLD SYSTEM WILL BE DISCONNECTED AND THE HOUSE WILL BE CONNECTED TO A NEW CITY SEWER LINE. THIS WILL GREATLY BENEFIT THE WETLAND BUFFER AND WETLAND WATER QUALITY.
- 2) AT THE EDGE OF THE WOODED AREA THERE ARE INVASIVE SPECIES. INVASIVE BITTERSWEET POSES A SIGNIFICANT THREAT TO NATIVE PLANTS. AS PART OF THE SITE WORK AN EFFORT TO REMOVE ACCESSIBLE BITTERSWEET WILL OCCUR.
- 3) THE AREA BELOW THE PROPOSED ADDITION WILL BE A STONE INFILTRATION AREA FOR ROOF DRAINAGE AND WILL BENEFIT THE WETLAND BUFFER AREA BY KEEPING STORMWATER DETAINED AND NOT FLOWING ON SURFACES. THIS STORMWATER MEASURE WILL INCREASE GROUNDWATER RECHARGE AND REDUCE STORMWATER SURFACE POLLUTANT LOADING TO SURFACE WATERS NEARBY.
- 4) WETLAND BUFFER PLANTINGS WILL BE INSTALLED ALONG THE WETLAND DELINEATION, PROVIDING PROTECTION TO THE WETLANDS.
- 5) NOFA - NORTHEAST ORGANIC FARMING ASSOCIATION LAND CARE PRACTICES FOR DESIGN AND MAINTENANCE WILL BE FOLLOWED.
- 6) 2,350 SF OF NON-TIDAL MOWED GRASS AREA TO BE RESTORED TO A WETLAND AREA.

GRAPHIC SCALE



2	9/29/2021	FOR PERMITS	
1	8/25/2021	PRELIMINARY	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCALE	1" = 20'		
CHECKED	A.ROSS		
DRAWN	D.D.D.		
CHECKED			

ROSS ENGINEERING, LLC
Civil/Structural Engineering
& Surveying
909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

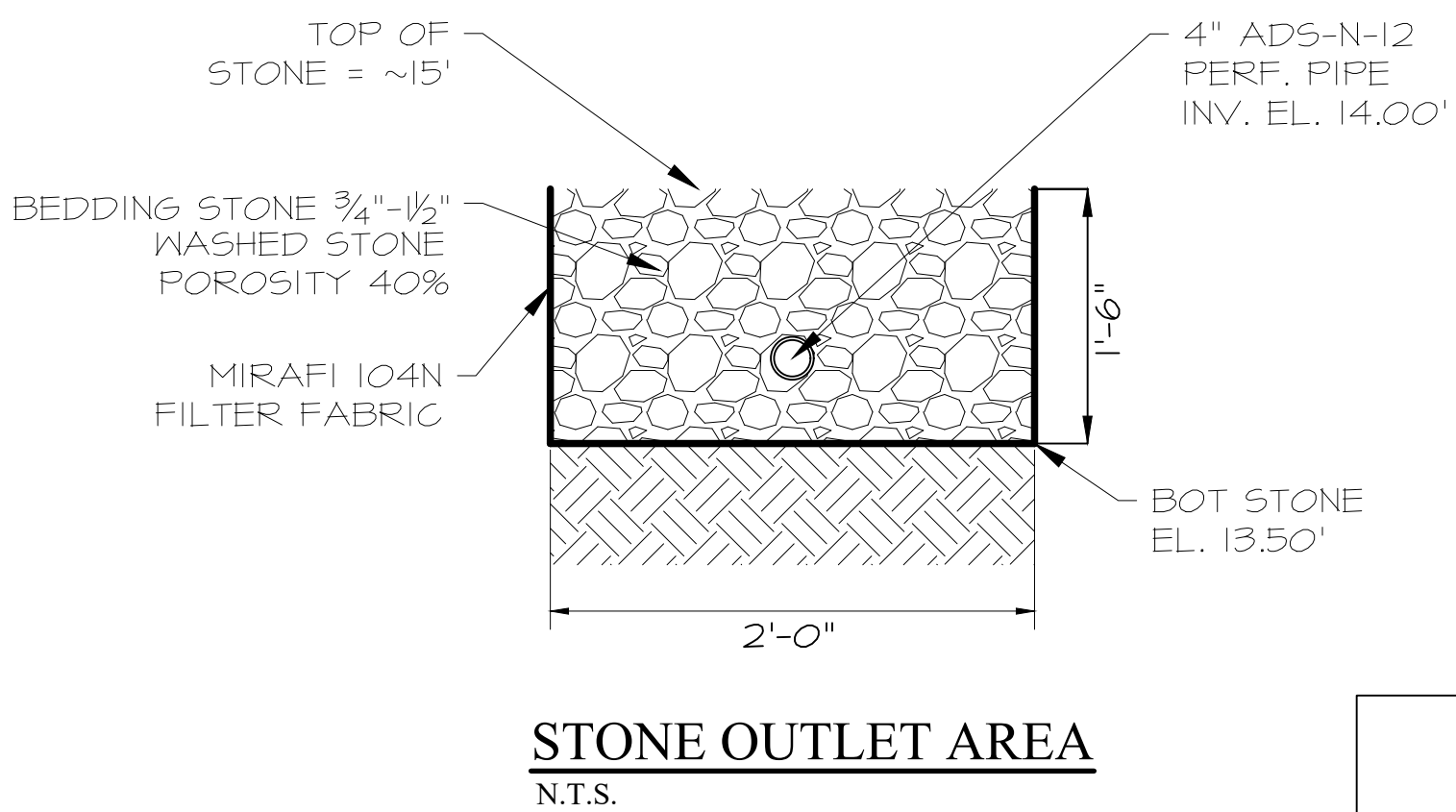
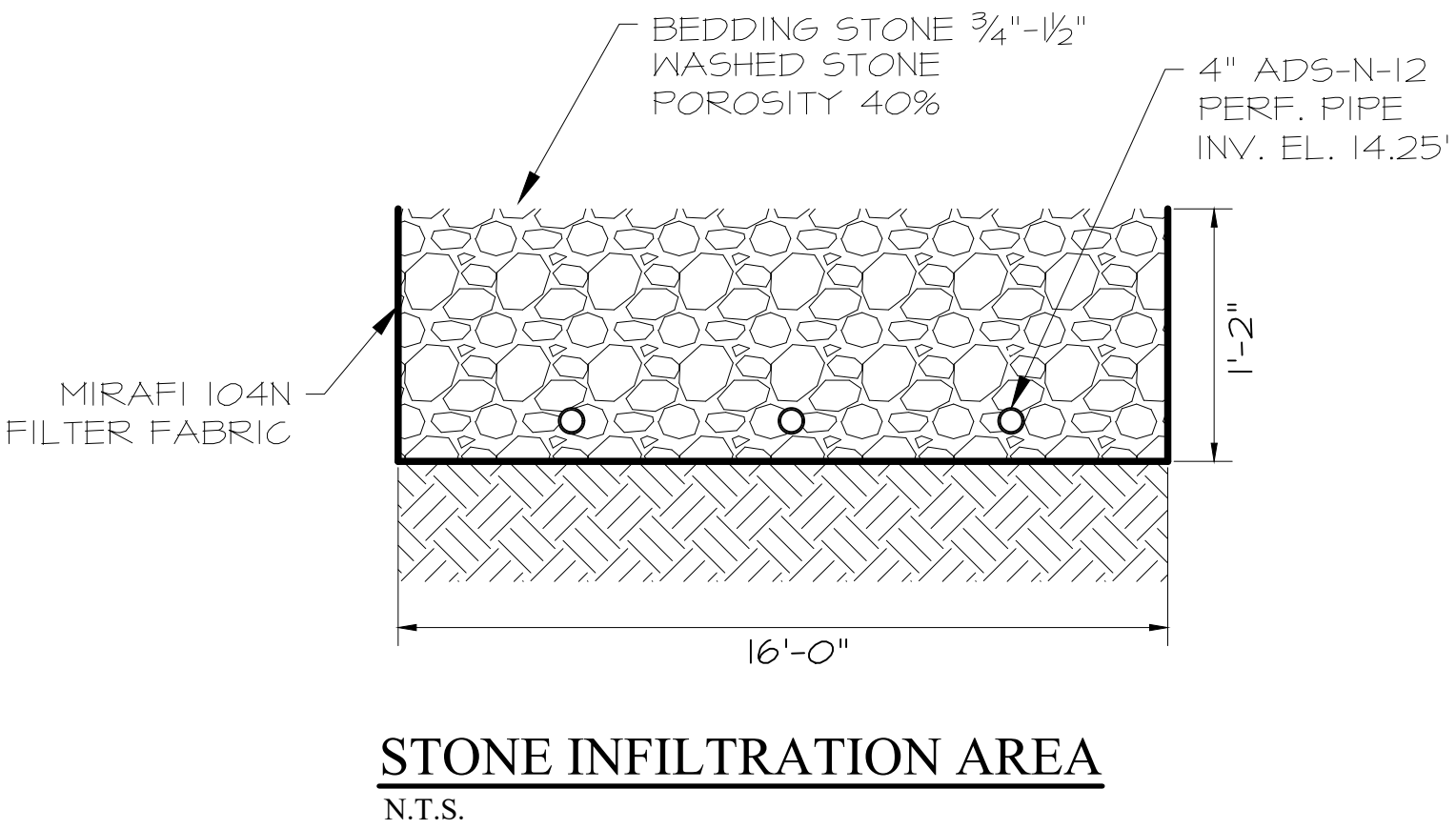
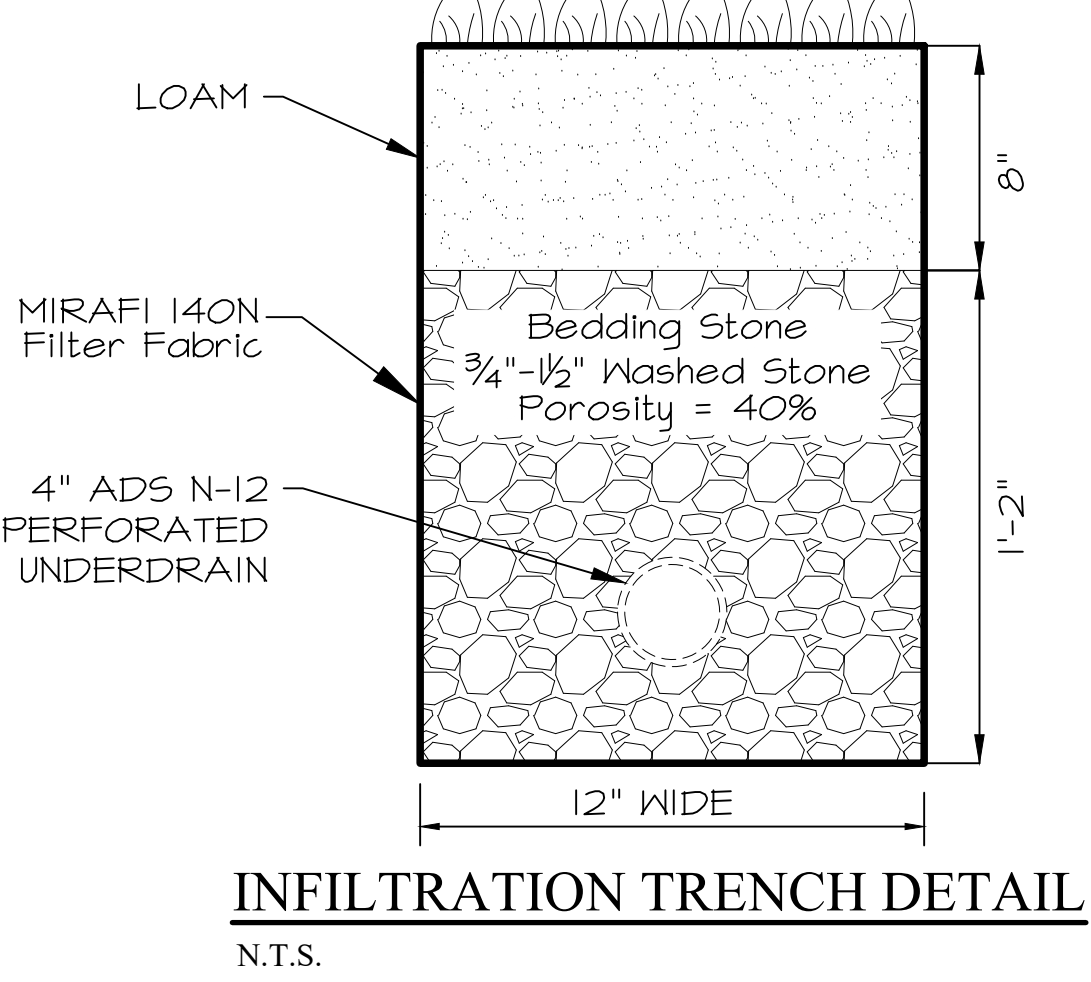
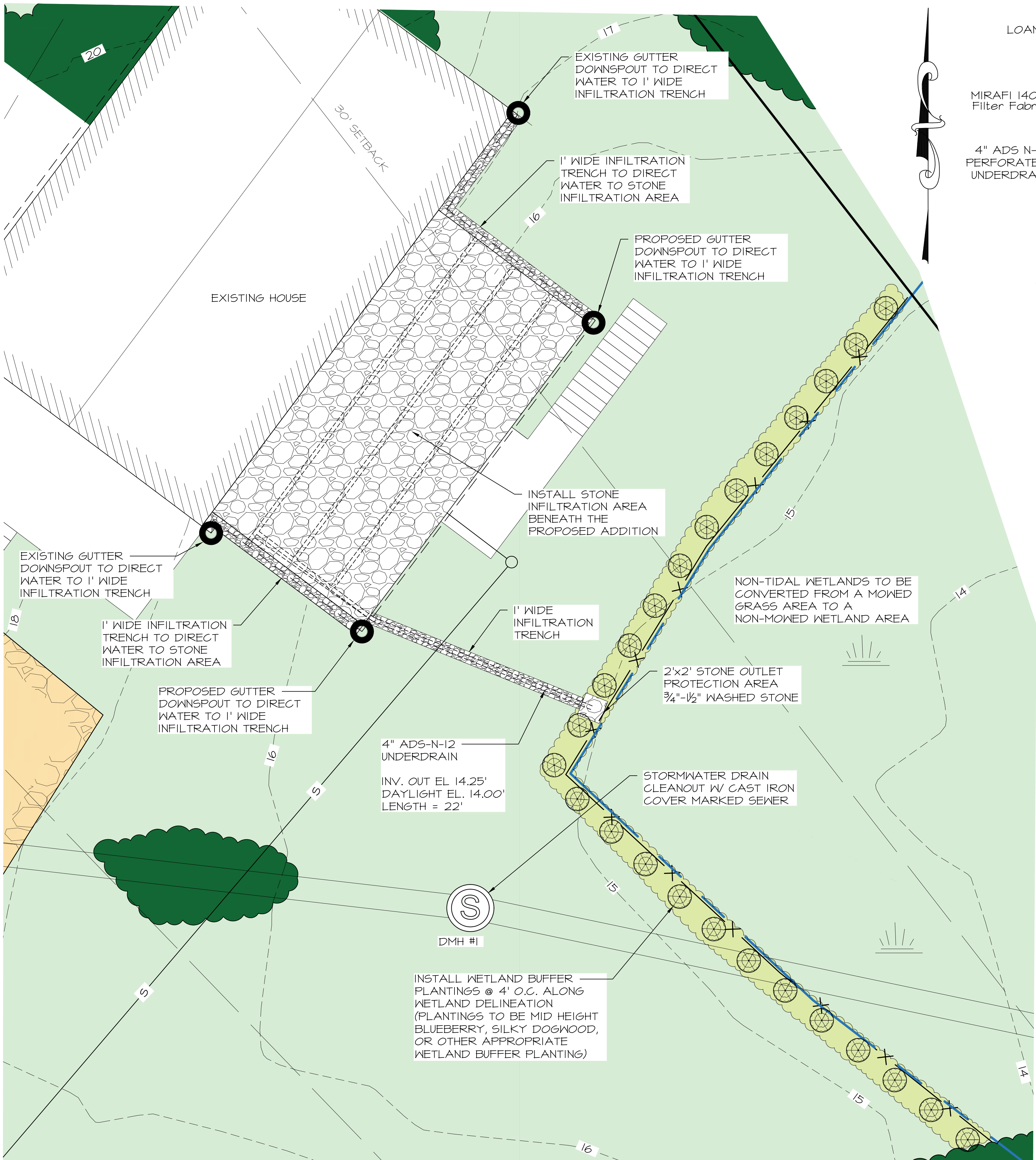
CLIENT
KAREN WEBB
910 SAGAMORE AVE.
PORTSMOUTH, NH 03801

TITLE

SITE PLAN

910 SAGAMORE AVE.
PORTSMOUTH, NH 03801
TAX MAP 223, LOT 26A

JOB NUMBER	DWG. NO.	ISSUE
21-077	2 OF 4	2



NOTES

- 1) THE FOLLOWING STORMWATER MANAGEMENT IMPROVEMENTS ARE PROPOSED
 - A) DRIP EDGES ALONG THE PERIMETER OF THE BUILDING COLLECTING WATER FROM THE ROOFS.
 - B) STONE INFILTRATION AREA TO THE SOUTHEAST OF THE HOUSE COLLECTING RUNOFF FROM THE ROOF AND WATER FROM THE DRIP EDGES. OUTLET TO STONE OUTLET PROTECTION AREA.
- 2) NON-TIDAL WETLAND TO GROW WILD WITH ONLY PERIODIC CUTTING & REMOVAL OF INVASIVE PLANTS.

LEGEND

- 100- EXISTING CONTOUR
- PROPOSED CONTOUR
- DRAINAGE FLOW PATH
- MONUMENT TO BE SET
- MONUMENT FOUND
- UTILITY POLE
- W- WETLAND
- GRAVEL DRIVEWAY/ROAD
- GRASS
- LANDSCAPING
- WATER
- DMH #1 DRAIN MANHOLE COVER
- GUTTER DOWNSPOUT

2	9/29/2021	FOR PERMITS	
1	8/25/2021	PRELIMINARY	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCALE	1" = 5'		
CHECKED	A.ROSS		
DRAWN	D.D.D.		
CHECKED			
ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560			
CLIENT KAREN WEBB 910 SAGAMORE AVE. PORTSMOUTH, NH 03801			
TITLE STORMWATER MANAGEMENT PLAN 910 SAGAMORE AVE. PORTSMOUTH, NH 03801 TAX MAP 223, LOT 26A			
JOB NUMBER	DWG. NO.	ISSUE	
21-077	3 OF 4	2	

EROSION AND SEDIMENTATION CONTROL
CONSTRUCTION PHASING AND SEQUENCING

1. SEE "EROSION AND SEDIMENTATION CONTROL GENERAL NOTES" WHICH ARE TO BE AN INTEGRAL PART OF THIS PROCESS.
2. INSTALL SILT/SOXX FENCING AS PER DETAILS AND AT SEDIMENT MIGRATION.
3. CONSTRUCT TREATMENT SWALES, LEVEL SPREADERS AND DETENTION STRUCTURES AS DEPICTED ON DRAWINGS.
4. STRIP AND STOCKPILE TOPSOIL. STABILIZE PILES OF SOIL CONSTRUCTION MATERIAL & COVER WHERE PRACTICABLE.
5. MINIMIZE DUST THROUGH APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES ON SITE.
6. ROUGH GRADE SITE. INSTALL CULVERTS AND ROAD DITCHES.
7. FINISH GRADE AND COMPACT SITE.
8. RE-SPREAD AND ADD TOPSOIL TO ALL ROADSIDE SLOPES. TOTAL TOPSOIL THICKNESS TO BE A MINIMUM OF FOUR TO SIX INCHES.
9. STABILIZE ALL AREAS OF BARE SOIL WITH MULCH AND SEEDING.
10. RE-SEED PER EROSION AND SEDIMENTATION CONTROL GENERAL NOTES.
11. SILT SOXX FENCING TO REMAIN AND BE MAINTAINED FOR TWENTY FOUR MONTHS AFTER CONSTRUCTION TO ENSURE ESTABLISHMENT OF ADEQUATE SOIL STABILIZATION AND VEGETATIVE COVER. ALL SILT SOXX FENCING ARE THEN TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
12. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
13. ALL TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
14. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE - BEFORE ROUGH GRADING THE SITE.
15. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
16. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
17. ALL CUT AND FILL SLOPES SHALL BE SEEDDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
18. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
19. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
20. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

PLANTING NOTES:

1. ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK.
2. ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE LANDSCAPE CONTRACTOR.
3. ALL TREES AND SHRUBS SHALL HAVE WATER SAUCERS BUILT AROUND THEIR BASES AND THESE SHALL BE MULCHED WITH 4" OF DARK BROWN AGED BARK MULCH. MULCH MUST BE KEPT 2" AWAY FROM THEIR TRUNKS.
4. ALL TREES AND SHRUBS SHALL BE PLANTED AND MULCHED BEFORE LAWN IS SEEDDED.

MAINTENANCE REQUIREMENTS:

1. ALL TREES, SHRUBS, AND PERENNIALS WILL NEED TO BE WATERED THROUGH THANKSGIVING DURING THE FIRST SEASON IN WHICH THEY ARE INSTALLED.
2. AN UNDERGROUND DRIP IRRIGATION SYSTEM IS RECOMMENDED. IF AN UNDERGROUND DRIP IRRIGATION SYSTEM IS NOT INSTALLED, SOAKER HOSES WOUND THROUGHOUT PLANTING BEDS ARE ACCEPTABLE. ALTHOUGH OVERHEAD SPRINKLERS ARE RECOMMENDED FOR LAWN AREAS, THEY ARE NOT ACCEPTABLE FOR IRRIGATING TREES AND SHRUBS.

SEEDING AND STABILIZATION FOR LOAMED SITE:

FOR TEMPORARY & LONG TERM SEEDINGS USE AGWAY'S SOIL CONSERVATION GRASS SEED OR EQUAL
COMPONENTS: ANNUAL RYE GRASS, PERENNIAL RYE GRASS, WHITE CLOVER, 2 FESCUES, SEED AT A RATE OF 100 POUNDS PER ACRE,
FERTILIZER: 4 LIME
NITROGEN (N) 50 LBS/ACRE, PHOSPHATE (P205) 100 LBS/ACRE, POTASH (K2O) 100 LBS/ACRE, LIME 2000 LBS/ACRE
MULCH:
HAY OR STRAW 1.5-2 TONS/ACRE

A) GRADING AND SHAPING

- 1) 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.

B) SEED BED PREPARATION

- 1) SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- 2) 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 SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

EROSION AND SEDIMENTATION CONTROL GENERAL
NOTES

1. CONDUCT ALL CONSTRUCTION IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE PHYSICAL ENVIRONMENT, BUT IN NO CASE SHALL EXCEED 2 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
2. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
3. ALL DITCHES, SWALES AND PONDS MUST BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
4. ALL GROUND AREAS OPENED UP FOR CONSTRUCTION WILL BE STABILIZED WITHIN 24 HOURS OF EARTH-DISTURBING ACTIVITIES BEING CEASED, AND WILL BE FULLY STABILIZED NO LONGER THAN 14 DAYS AFTER INITIATION. (SEE NOTE II FOR DEFINITION OF STABLE). ALL SOILS FINISH GRADED MUST BE STABILIZED WITHIN SEVENTY TWO HOURS OF DISTURBANCE. ALL TEMPORARY OR LONG TERM SEEDING MUST BE APPLIED TO COMPLY WITH "WINTER CONSTRUCTION NOTES" (SEE WINTER CONSTRUCTION NOTES). EMPLOY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS DETAILED ON THIS PLAN AS NECESSARY UNTIL ADEQUATE STABILIZATION HAS BEEN ASSURED (SEE NOTE II FOR DEFINITION OF STABLE).
5. TEMPORARY & LONG TERM SEEDING: USE SEED MIXTURES, FERTILIZER, LIME AND MULCHING AS RECOMMENDED (SEE SEEDING AND STABILIZATION NOTES).
6. SILT/SOXX FENCING TO BE SECURELY EMBEDDED AND STAKED AS DETAILED. WHEREVER POSSIBLE A VEGETATED STRIP OF AT LEAST TWENTY FIVE FEET IS TO BE KEPT BETWEEN SILT/SOXX AND ANY EDGE OF WET AREA.
7. SEEDDED AREAS WILL BE FERTILIZED AND RE-SEEDDED AS NECESSARY TO ENSURE VEGETATIVE ESTABLISHMENT.
8. SEDIMENT BASIN(S), IF REQUIRED, TO BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN CAPACITY.
9. SILT/SOXX FENCING WILL BE CHECKED REGULARLY, AND AFTER EACH SIGNIFICANT RAINFALL, NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER AS WELL AS CLEANING, REMOVAL AND PROPER DISPOSAL OF TRAPPED SEDIMENT.
10. TREATMENT SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN ESTABLISHED.
11. AN AREA SHALL BE CONSIDERED FULLY STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED.
12. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
13. ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN THE PLAN SHALL MEET THE DESIGN BASED ON STANDARDS AND SPECIFICATIONS SET FORTH IN THE STORM WATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE (DECEMBER 2008 OR LATEST) PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, N.H. DES AND NRCS.

WINTER CONSTRUCTION NOTES

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

LONG TERM SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS

FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C

	<u>lb/ACRE</u>	<u>lb/1000SF</u>
TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
RED CLOVER (ALSIKE)	20	0.45
TOTAL	48	1.35

LIME: AT 2 TONS PER ACRE OR 100 LBS PER 1,000 S.F.
FERTILIZER: 10 20 20 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE.
MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:

- SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.
- SEEDBED PREPARATION:
SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED. SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

SHORT TERM SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS

FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C

	<u>#/ACRE</u>	<u>#/1000SF</u>
FOR APRIL 1 - AUGUST 15		
ANNUAL RYE GRASS	40	1
FOR FALL SEEDING		
WINTER RYE	112	2.5

LIME: AT 1 TON PER ACRE OR 100 LBS PER 1,000 S.F.
FERTILIZER: 10 10 10 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE.
MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:

- SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.

SEEDBED PREPARATION:

- SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED. SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

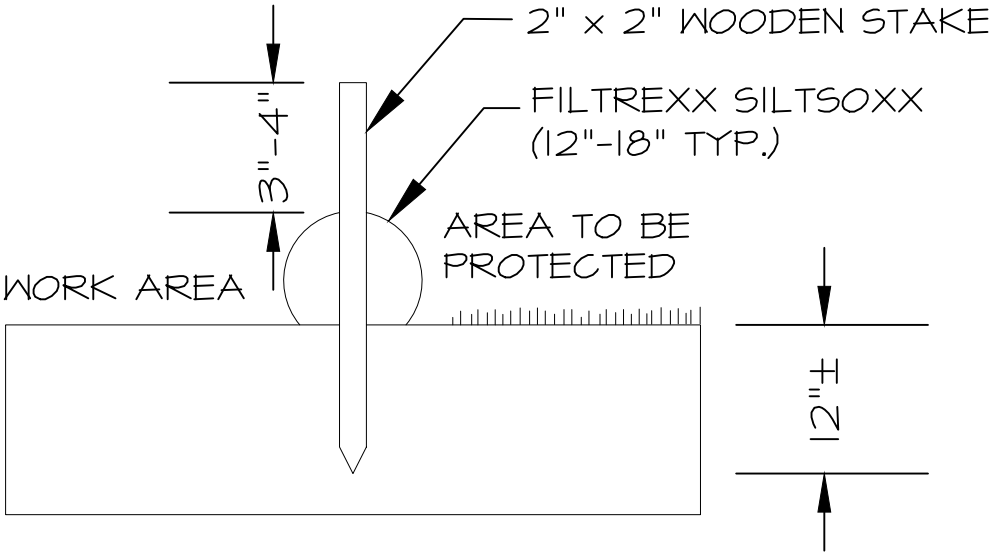
* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

WHEN PROPOSED FOR ALTERATION DURING CONSTRUCTION AS BEING INFESTED WITH INVASIVE SPECIES SHALL BE MANAGED APPROPRIATELY USING THE DISPOSAL PRACTICES IDENTIFIED IN "NHDOT - BEST MANAGEMENT PRACTICES FOR ROADSIDE INVASIVE PLANTS - 2008" AND "METHODS FOR DISPOSING NON-NATIVE INVASIVE PLANTS - UNH COOPERATIVE EXTENSION - 2010"

SEED MIXES SHALL NOT CONTAIN ANY SPECIES IDENTIFIED BY THE NEW HAMPSHIRE PROHIBITED INVASIVE PLANT SPECIES LIST.

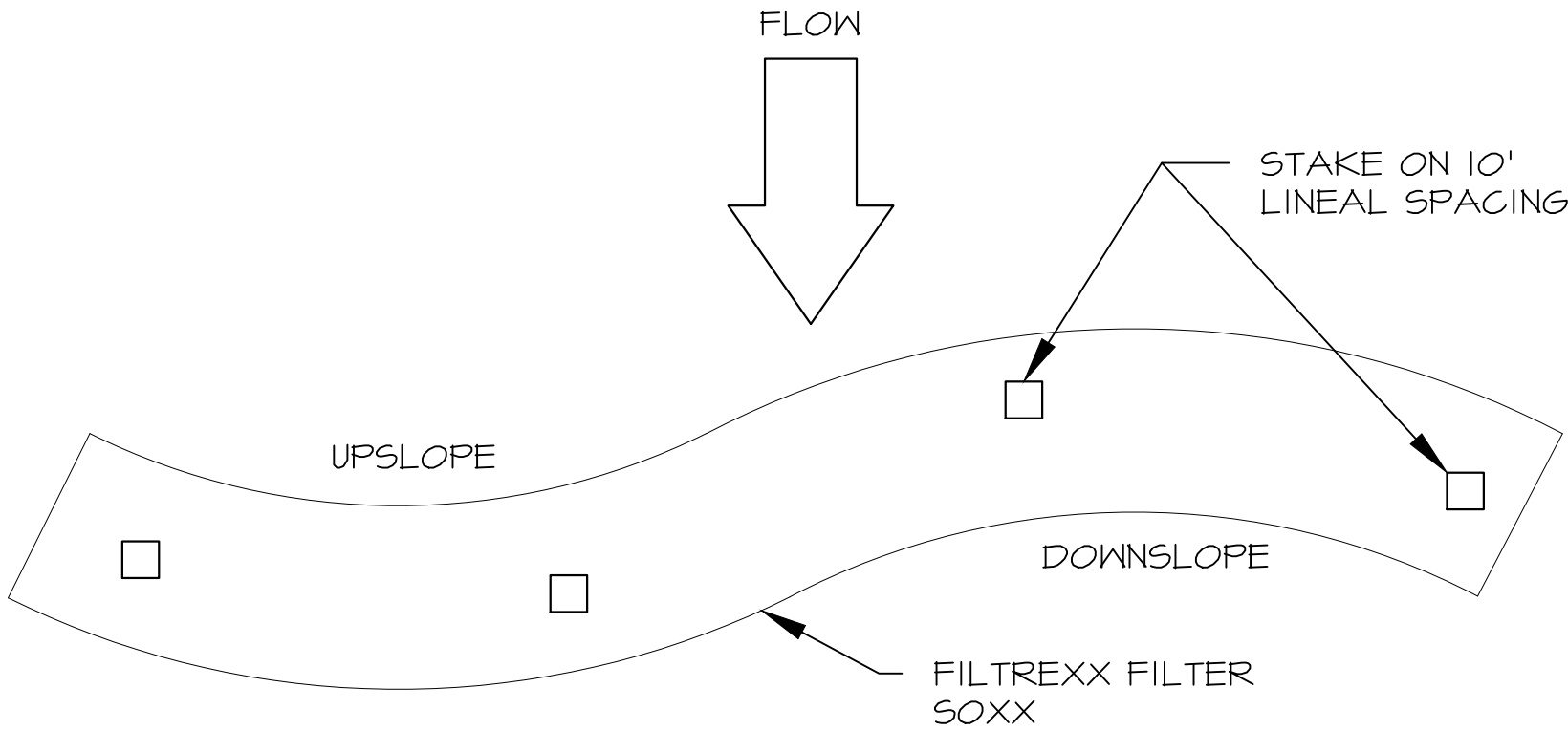
FILTREXX SILT/SOXX NOTES

- 1) ALL MAERTIAL TO MEET FILTREXX SPECIFICATIONS
- 2) SILT/SOXX COMPOST, SOIL, ROCK, SEED FILL TO MEET APPLICATION REQUIREMENTS



Filtrex SiltSoxx Section

N.T.S.



Filtrex SiltSoxx Plan View

N.T.S.

2	9/29/2021	FOR PERMITS	
1	8/25/2021	PRELIMINARY	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCALE	AS SHOWN		
CHECKED	A.ROSS		
DRAWN	D.D.D.		
CHECKED			
<u>ROSS ENGINEERING, LLC</u> Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560			
CLIENT KAREN WEBB 910 SAGAMORE AVE. PORTSMOUTH, NH 03801			
TITLE EROSION CONTROL PLAN 910 SAGAMORE AVE. PORTSMOUTH, NH 03801 TAX MAP 223, LOT 26A			
JOB NUMBER	21-077	DWG. NO.	4 OF 4
		ISSUE	2

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



Photo 1: Google Aerial of Site.



Photo 2: Zoomed In Google Aerial of Site.

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



Photo 3: View of existing house looking towards the north. (August 9, 2021)



Photo 4: View of existing house looking towards the northeast. (August 9, 2021)

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



Photo 5: View of existing house looking to the southeast. (August 9, 2021)



Photo 6: View of existing house looking to the northwest. (August 9, 2021)

Ross Engineering, LLC

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net

August 24, 2021

Planning Department
City of Portsmouth
Portsmouth, NH 03801

RE: 910 Sagamore Ave
Tax Map 223, Lot 26A
Portsmouth, NH 03801

Owner: Karen Butz Webb
910 Sagamore Ave
Portsmouth, NH 03801

Please be advised that Alex Ross of Ross Engineering is authorized to be my agent for the above application process. Should you have any questions, please contact me.

Sincerely,



Karen Butz Webb
910 Sagamore Ave
Portsmouth, NH 03801