

REVISION:

EXCAVATION SITE PLAN

NH ROUTE 11

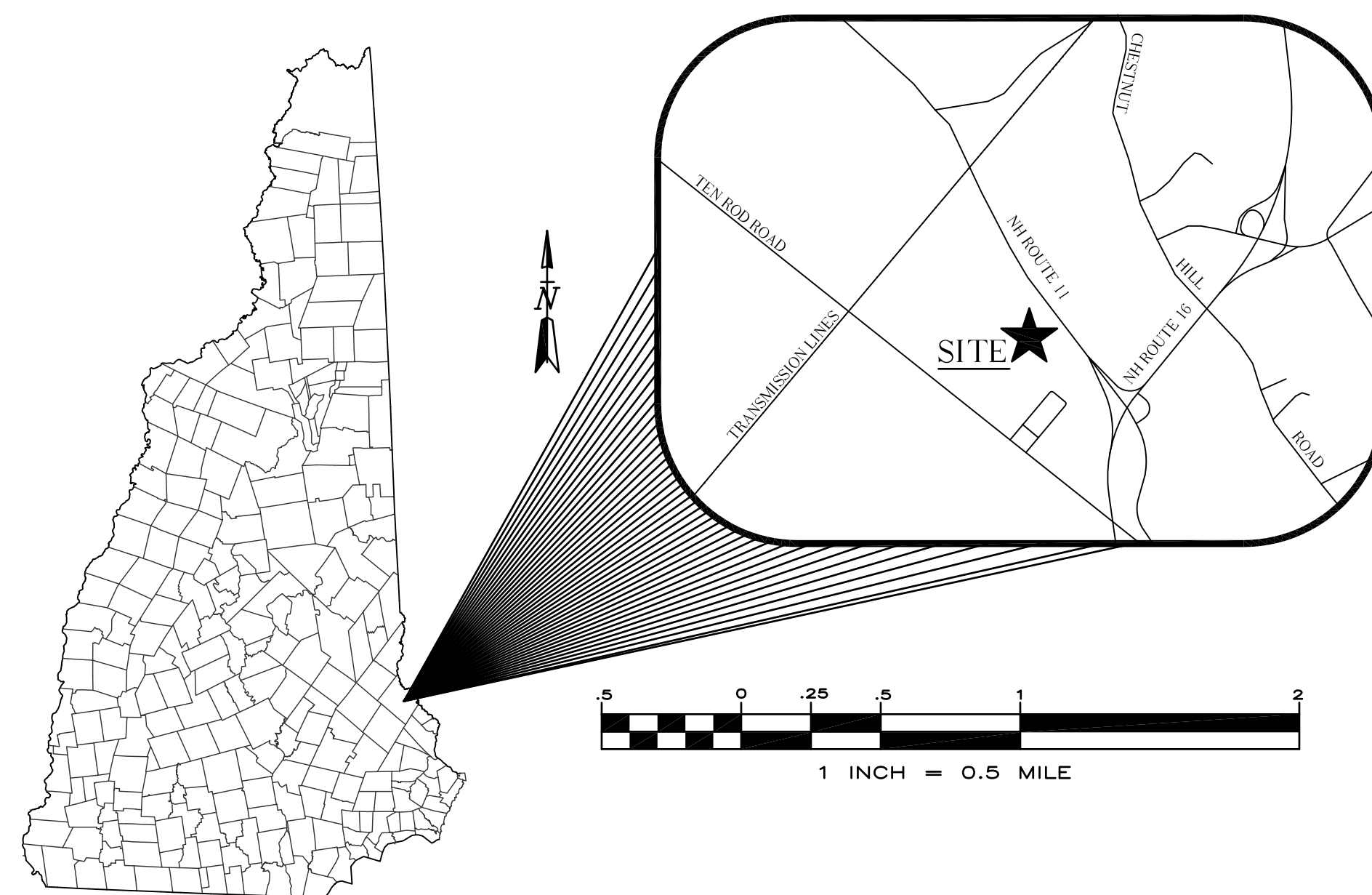
ROCHESTER, N.H.

FOR

DAVID S. THAYER AND

RICHARD P. THAYER REVOCABLE TRUST

JANUARY 2014



STATE OF NEW HAMPSHIRE PERMIT NUMBERS:
NHDES ALTERATION OF TERRAIN PERMIT: AOT - 0061
NHDES WETLANDS PERMIT: NOT REQUIRED
NHDES DAM PERMIT: NOT REQUIRED
NHDES SUBDIVISION PERMIT: NOT REQUIRED
NHDES SUBSURFACE SYSTEMS PERMIT: NOT REQUIRED
NHDES SEWER CONNECTION PERMIT: NOT REQUIRED
NHDOT DRIVEWAY/ENTRANCE PERMIT: 06-389-578

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):
NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WETLAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, STREAM OR RIVER).

NPDES PERMIT: REQUIRED

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 48 HOURS PRIOR TO CONSTRUCTION COMMENCING AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT CONTACT THE PROJECT GENERAL CONTRACTOR.
NHDES ALTERATION OF TERRAIN PROGRAM REQUIREMENTS FOR PERMIT VALIDITY:

1. PRIOR TO INITIATION OF BLASTING, A GROUNDWATER MONITORING PLAN SHALL BE DEVELOPED FOR REVIEW AND APPROVAL BY THE DEPARTMENT. THE PLAN SHALL MONITOR FOR POTENTIAL IMPACTS ASSOCIATED WITH BLASTING TO GROUNDWATER THAT IS DERIVED FROM REPRESENTATIVE DRINKING WATER SUPPLY WELLS NEAR THE SITE. THE PLAN SHALL BE IMPLEMENTED ONCE APPROVED BY THE DEPARTMENT.
2. PRIOR TO BLASTING, A BLASTING PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE DEPARTMENT. THE PLAN SHALL DESCRIBE THE BEST MANAGEMENT PRACTICES THAT WILL BE IMPLEMENTED TO PREVENT GROUNDWATER CONTAMINATION ASSOCIATED WITH BLASTING AND RELATED ACTIVITIES. THE PLAN SHALL BE IMPLEMENTED ONCE APPROVED BY THE DEPARTMENT.
3. FOR GUIDANCE IN PREPARING THE ABOVE MONITORING AND BLASTING PLANS, PLEASE CONTACT BRANDON KERNEN AT THE NHDES HYDROLOGY AND CONSERVATION PROGRAM (603) 271-0660.
4. THE PROPERTY OWNER OR THEIR DESIGNATED MINING OPERATIONS MANAGER/CONTRACTOR SHALL PROVIDE THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES - ALTERATION OF TERRAIN PROGRAM REVISED PLANS DOCUMENTING THE PROJECT STATUS EVERY FIVE (5) YEARS FROM THE DATE OF ISSUANCE OF THE ALTERATION OF TERRAIN PERMIT.

SHEET INDEX

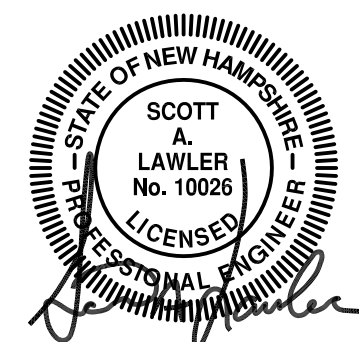
C-1	OVERALL SITE PLAN	1" = 60'
E-1	EXISTING FEATURES PLAN	1" = 30'
C-2	GRADING, DRAINAGE & EROSION CONTROL PLAN	1" = 30'
C-3	DETENTION BASIN DETAILS	AS SHOWN
C-4	EROSION CONTROL DETAILS	AS SHOWN
C-5	EROSION CONTROL DETAILS	AS SHOWN
C-6	DRIVEWAY ENTRANCE IMPROVEMENT PLAN	1" = 30'

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

CIVIL ENGINEERS

NORWAY PLAINS ASSOCIATES, INC.
2 CONTINENTAL BOULEVARD
ROCHESTER, NH 03867



CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

OWNER

TAX MAP 216 - LOT 2
OWNER OF RECORD
DAVID S. THAYER
596 GOVERNORS RD
MILTON, NH 03851

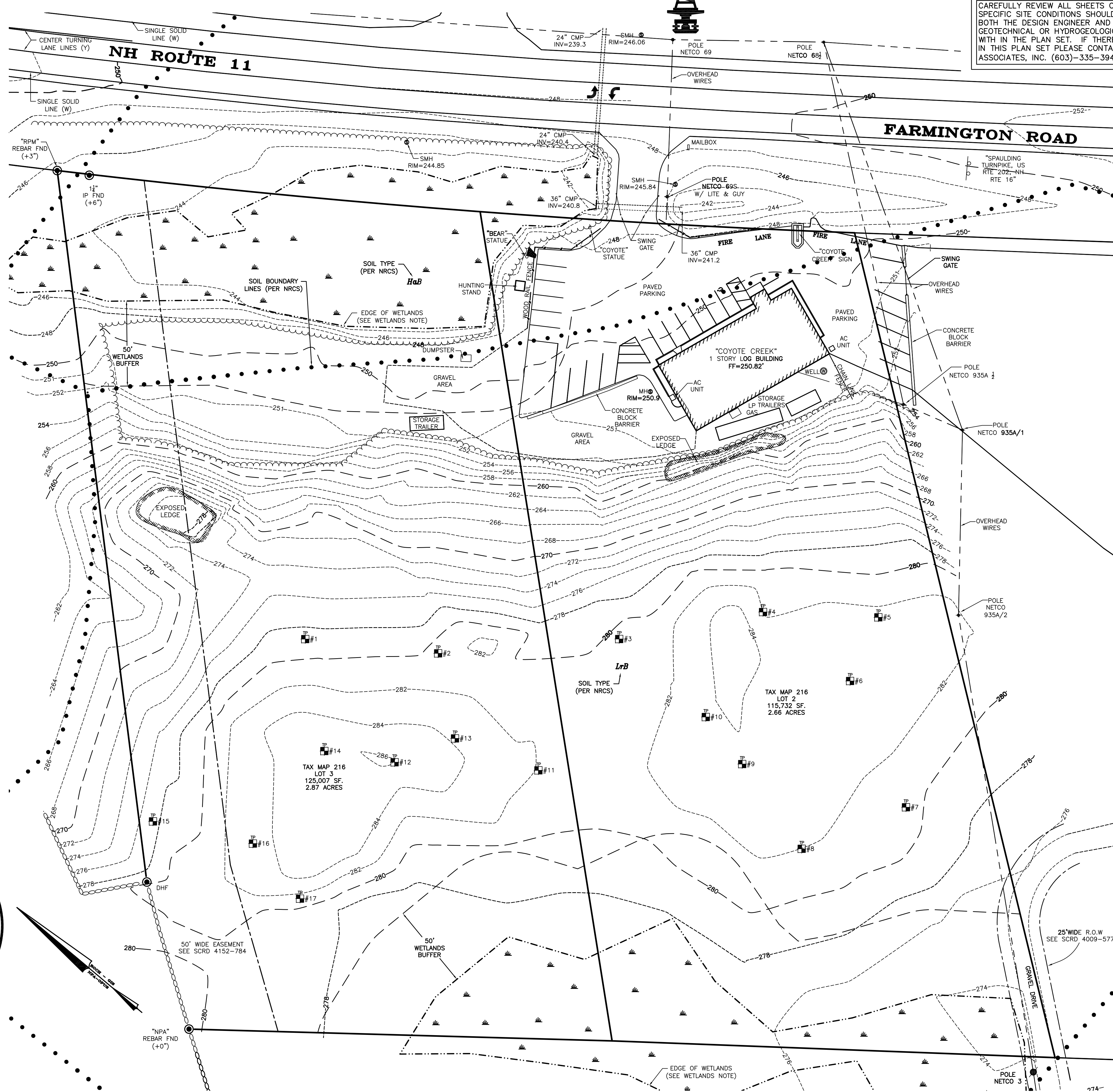
OWNER

TAX MAP 216 - LOT 3
OWNERS OF RECORD
RICHARD P. THAYER REVOCABLE TRUST
RICHARD P. & DIANE J. THAYER, TRUSTEES
407 MERRYMEETING RD
NEW DURHAM, NH 03855-2100

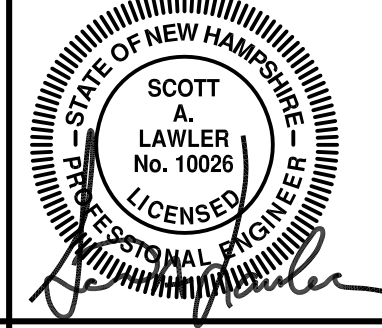
FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINES
- EXISTING TREE LINE
- EXISTING OVERHEAD WIRES
- EXISTING STOCKADE FENCE
- EXISTING CHAINLINK FENCE
- 234 — EXISTING CONTOUR LINE
- EXISTING DRAIN LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING UTILITY POLE
- EXISTING MONUMENTS
- EXISTING DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING HYDRANT
- EXISTING WATER GATE VALVE OR SHUT-OFF
- EXISTING GAS GATE VALVE
- EXISTING TEST PIT LOCATION & NUMBER



CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



GENERAL SITE PLAN NOTES:

- TOTAL PARCELS AREAS:
TAX MAP 216 - LOT 2 = 2.66 AC.
TAX MAP 216 - LOT 3 = 2.87 AC.
- THIS PARCEL IS LOCATED IN GRANITE RIDGE DEVELOPMENT ZONE (GRD) AND THE CONSERVATION OVERLAY DISTRICT.
- THE PURPOSE OF THIS PLAN IS TO DEPICT ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATION PRIOR TO ANY WORK BEING PERFORMED. THESE PLANS SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF SURVEY, OCTOBER 2013. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THESE PLANS, BUT IN EXISTENCE, IS NOT INTENDED OR IMPLIED.
- DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
GRANITE RIDGE ZONE (WITHOUT WATER & SEWER):
MINIMUM LOT SIZE = NO REGULATIONS
MINIMUM LOT FRONTAGE = 50'
MINIMUM YARD SETBACK:
FRONT = NO REGULATIONS
SIDE = NO REGULATIONS
REAR = NO REGULATIONS
MAXIMUM LOT COVERAGE = NO REGULATIONS
- ORIENTATION: HORIZONTAL AND VERTICAL DATUMS - CITY OF ROCHESTER GIS.
- SOIL TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE.
Hsb - HICKORY LOAMY SAND, 3 TO 8% SLOPES
Lrb - LEICESTER - RIDGEBURY VERY STONEY FINE SANDY LOAM, 3 TO 8% SLOPES.
- THE PROPOSED LOT IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 5/17/05 COMMUNITY PANEL 33017C0184D PANEL 184 OF 405
- THE LOTS ARE SERVICED BY ONSITE WELL AND SEPTIC SYSTEM. MUNICIPAL WATER AND SEWER SYSTEMS ARE AVAILABLE.
JANET A. KELLER WAS GRANTED TWO, FIFTY FOOT POINTS OF ACCESS ON NH ROUTE 11, A LIMITED ACCESS HIGHWAY. SAID TRACT OF LAND IS THE PARENT PARCEL OF TM 216-1, 2, 3 & TM 221-163. SEE SCRD 686-57, DATED MAR. 20, 1958.

TEST PIT/EDGE PROBE LOGS:

TP #1: 0-36" 36"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #10: 0-144" 144"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #2: 0-36" 36"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #11: 0-120" 120"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #3: 0-96" 36"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #12: 0" 0"	SURFACE LEDGE
TP #4: 0" 0"	SURFACE LEDGE	TP #13: 0-60" 60"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #5: 0-48" 48"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #14: 0-24" 24"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #6: 0-24" 24"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #15: 0-36" 36"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #7: 0-48" 48"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #16: 0-48" 48"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #8: 0-96" 96"	OVERBURDEN MATERIAL REFUSAL/LEDGE	TP #17: 0-48" 48"	OVERBURDEN MATERIAL REFUSAL/LEDGE
TP #9: 0-144" 144"	OVERBURDEN MATERIAL REFUSAL/LEDGE		

TEST PIT DATA NOTES:

- TEST PITS/ LEDGE PROBE WERE PERFORMED BY SUR CONSTRUCTION, INC. IN THE SPRING OF 2009.
- THE PURPOSE OF THE PITS/PROBES WERE TO DETERMINE THE DEPTH TO REFUSAL/LEDGE AND NOT TO DETERMINE DEPTH TO SEASONAL HIGH WATER TABLE, SINCE LEDGE REMOVE WOULD BE BELOW WATER TABLE.
- THE AVERAGE SEASONAL HIGH WATER TABLE FOR LEICESTER-RIDGEBURY IS 0 TO 12 INCHES PER THE NRCS.

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

TAX MAP 216 - LOT 2
OWNER OF RECORD
THAYER DAVID S. THAYER
596 GOVERNORS RD
MILTON, NH 03851
SCRD 4152-849

TAX MAP 216 - LOT 3
OWNERS OF RECORD
RICHARD P. THAYER REVOCABLE TRUST
RICHARD P. & DIANE J. THAYER, TRUSTEES
407 MERRYMETING RD
NEW DURHAM, NH 03855-2100
SCRD 4152-787

EXISTING FEATURES PLAN
NH ROUTE 11 - FARMINGTON ROAD
STRAFFORD COUNTY
ROCHESTER, N.H.

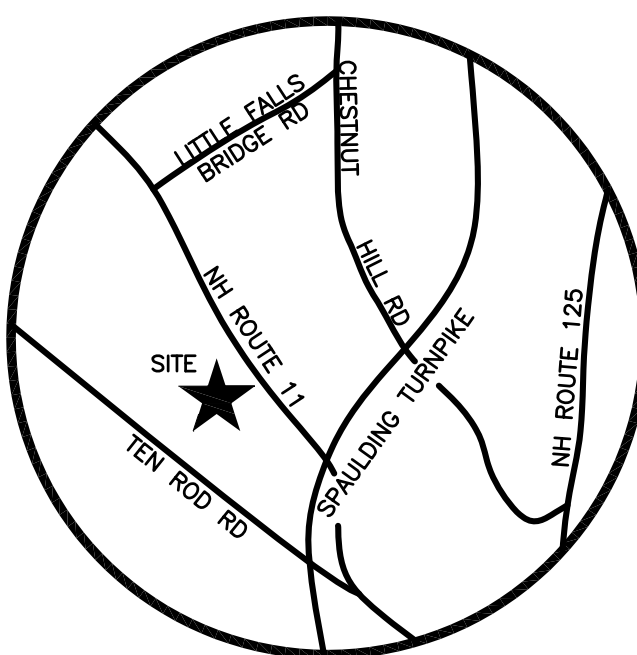
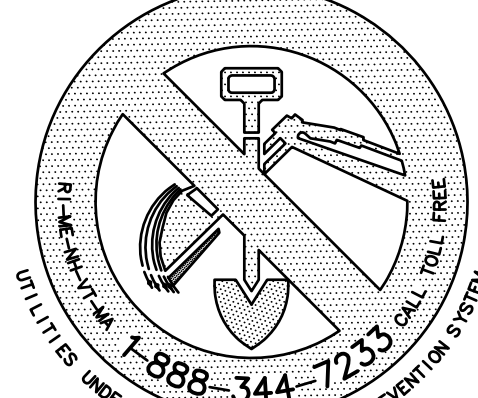
PREPARED FOR:
COYOTE CREEK OUTFITTERS

SCALE: 1" = 30' JANUARY 2014

GRAPHIC SCALE



DIG SAFE



FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

E-1

LAND SURVEYORS - SEPTIC DESIGNERS

CIVIL ENGINEERS - TRANSPORTATION PLANNERS

LEGEND

- S 89°13'08" E
729.98' PROPERTY LINE
PROPERTY LINE TO BE ABANDONED
LIMITS OF JURISDICTIONAL WETLANDS
50 FOOT WETLANDS BUFFER ZONE
BUILDING SETBACK LINES
ZONING DISTRICT LINE

WETLANDS NOTES:

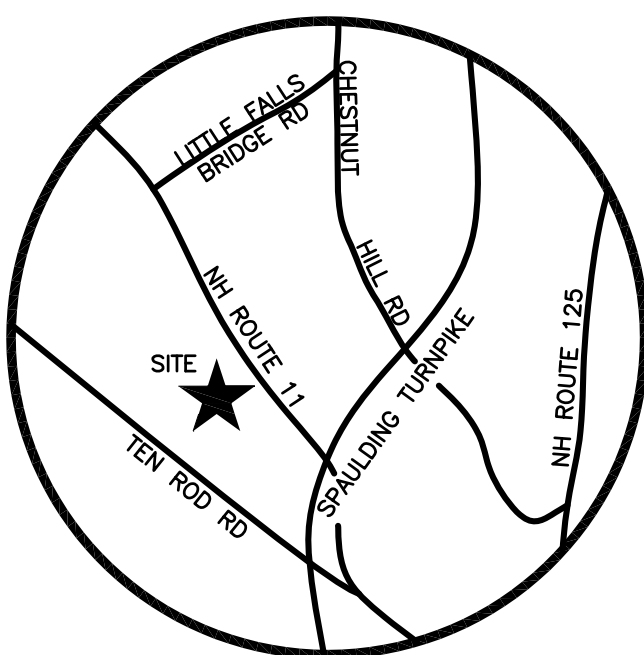
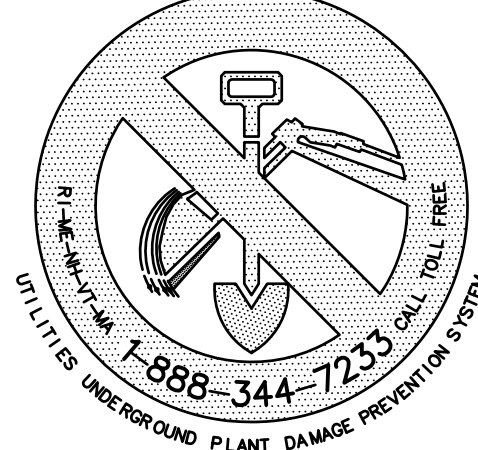
- JURISDICTIONAL WETLANDS WERE DELINEATED BY MICHAEL JOYCE OF STONEY RIDGE ENVIRONMENTAL LLC IN AUGUST AND DECEMBER OF 2013 UTILIZING THE FOLLOWING STANDARDS:
- 1) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0. 2010. L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.). UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
 - 2) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3. APRIL 2004. NEWPCC WETLANDS WORKGROUP. WILMINGTON, MA 01887.
 - 3) NORTH AMERICAN DIGITAL FLORA: NATIONAL WETLAND PLANT LIST, VERSION 2.1.0 (HTTP://WETLAND.PLANTS.USACE.ARMY.MIL.). U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NH, AND BONAP, CHAPEN HILL.
 - 4) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: 1988 NEW HAMPSHIRE. UNITED STATES DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, NERC-88/18.29.
 - 5) CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, JANUARY 1987. WETLANDS RESEARCH PROGRAM TECHNICAL REPORT Y-87-1.
 - 6) REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, JANUARY 2012, VERSION 2. U.S. ARMY CORPS OF ENGINEERS. ENVIRONMENTAL LABORATORY ERDC/EL TR-12-1.
 - 7) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. DECEMBER 1979. L. COWARDIN, V. CARTER, F. GOLET, AND E. LAROE. US DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE. FWS/OBS-79/31.

CITY OF ROCHESTER EXCAVATION PERMIT REQUIREMENTS:

1. DURING EXCAVATION A SITE WALK WILL BE CONDUCTED BY THE PIT OPERATOR AND THE CITY ENGINEER ON THE FIRST MONDAY OF AUGUST EACH YEAR THE PIT IS IN OPERATION. THE INSPECTION WILL BE TO DETERMINE THAT THE UN-RESTORED AREA IS IN COMPLIANCE WITH THE SURETY AMOUNT PREVIOUSLY SET FORTH. IF IT IS DETERMINED THAT THE AREA EXCEEDS THE AMOUNT OF BONDED UNDISTURBED AREA, THE OPERATOR WILL HAVE 60 DAYS TO BRING THE UNDISTURBED AREA BACK INTO COMPLIANCE AND/OR ADJUST THE SURETY AMOUNT ACCORDINGLY.
2. IF NO ACTION IS TAKEN WITHIN THE 60 DAYS BY THE OPERATOR THEN THE PIT OPERATOR WILL BE ORDERED TO CEASE THE EXPORT OF ANY MATERIAL UNTIL THE AREA IS BROUGHT TO COMPLIANCE. THE PIT OPERATOR WILL ALSO BE GIVEN NOTICE THAT IF NO ACTION IS TAKEN BY THE ANNIVERSARY OF THE AUGUST INSPECTION THAT THE CITY WILL HAVE THE RIGHT TO CALL THE SURETY AND THE EXCAVATION PERMIT WILL BE REVOKED.
3. UPON COMPLETION OF THE EXCAVATION THE OPERATOR WILL HAVE ONE YEAR TO COMPLETE ALL REMAINING RESTORATION AS OUTLINED ON THE APPROVED PLANS AND PROVIDE THE CITY WITH AS-BUILT DRAWINGS. IF, AT ANY TIME, A PERIOD OF 12 MONTHS PASSES DURING WHICH NO SIGNIFICANT ACTIVITY OCCURS ON THE SITE AND DURING WHICH THE SITE REMAINS AS AN UNRECLAIMED PIT, THEN THE CITY OF ROCHESTER MAY DECLARE THE SITE ABANDONED, CALL THE SURETY, AND RECLAIM THE SITE, AS APPROPRIATE.
4. AS LONG AS THE EXCAVATION IS ACTIVE, THE APPLICANT SHALL PAY AN ANNUAL RENEWAL FEE OF \$100.00 TO THE PLANNING DEPARTMENT. THIS SHALL BE PAID BY OCTOBER 15 OF EACH YEAR. THE RENEWAL SHALL BE AUTOMATIC PROVIDED THE PLANNING DEPARTMENT FINDS THE PROJECT REMAINS IN COMPLIANCE WITH THIS APPROVAL.
5. THE APPLICANT MUST REMAIN IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RSA 155E.
6. REMOVAL OF VEGETATION SHALL BE LIMITED TO THOSE AREAS WHERE THERE IS AN IMMEDIATE NEED FOR MATERIALS TO BE REMOVED.
7. THE DRAINAGE STRUCTURES SHALL REMAIN IN PLACE AFTER THE EXCAVATION IS COMPLETED. THEY MAY BE CHANGED OR REMOVED AS PART OF FUTURE DEVELOPMENT OF THE SITE.

MAP/LOT	ADJUTERS
216/1	WISSLER PROPERTIES LLC; 20 FARMINGTON RD, ROCHESTER, NH 03867-4304
221/163	ROBERT & KAREN BERANGER; 20 FARMINGTON RD, ROCHESTER, NH 03867-4304
216/4	NORTHGATE INVESTMENT PROPERTIES LLC; ONE LILAC LN, DOVER, NH 03820
216/28	MILES COOK N III c/o ROCHESTER MOTORSPORTS; 23 FARMINGTON RD, ROCHESTER, NH 03867
216/28-1	CITY OF ROCHESTER; 31 WAKEFIELD ST, ROCHESTER, NH 03867
216/29	CARDINALS SEAFARER RESTAURANT; PO BOX 316, ROCHESTER, NH 03866-0316
216/26	DONALD & BONNIE J. TOY c/o TOYS ROCHESTER MANUFACTURED HOUSING INC; 15 NASHOBA DR, ROCHESTER, NH 03867

DIG SAFE



LOCUS MAP
NOT TO SCALE

FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

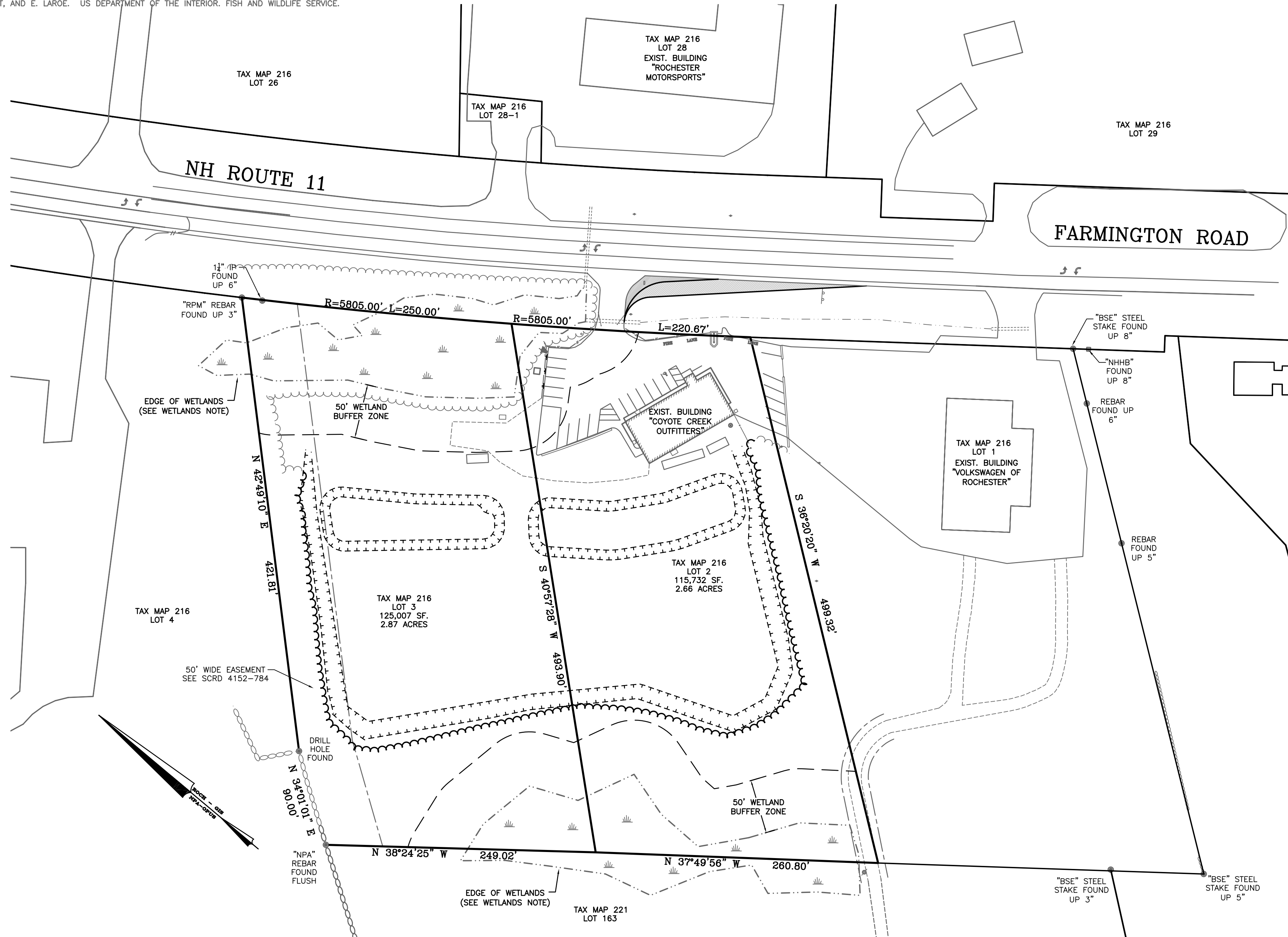
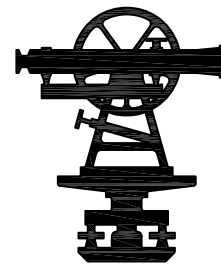
31 Mooney Street, Alton, N.H. 603-875-3948

NHDES ALTERATION OF TERRAIN PROGRAM REQUIREMENTS FOR PERMIT VALIDITY:

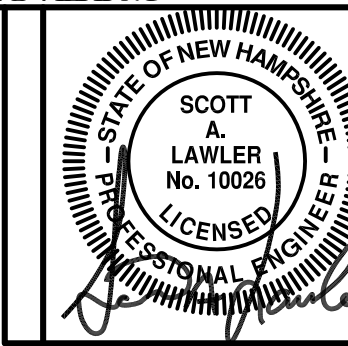
REFERENCE PLANS:

1. PROPOSED SUBDIVISION, LAND OF BERANGER REALTY, INC., ROUTE 11, ROCHESTER, NH DATED JUNE 4, 1979 BY BERRY CONST. CO., INC AND RECORDED AT THE STRAFFORD COUNTRY REGISTRY OF DEEDS, PLAN #20-63.
2. "PROPERTY OF RICHARD S. ROBIE, ROCHESTER, NH" DATED 7/13/72 BY PETER HODGES SURVEYORS, INC AND RECORDED AT THE STRAFFORD COUNTRY REGISTRY OF DEEDS, PLAN #9-2-#47
3. "PROPERTY OF RICHARD S. ROBIE, ROCHESTER, NH" DATED SEPT. 1969 BY PETER G. HODGES, SURVEYORS AND RECORDED AT THE STRAFFORD COUNTRY REGISTRY OF DEEDS, PLAN 11-3-#13
4. "PLAN OF PROPOSED FEDERAL AID PROJECT F-022-1(1) NH ROUTE 11 HENRY WILSON HIGHWAY" DATED 7-30-57 BY NHDOT AND ON FILE AT NHDOT.

- NHDOT CONDITIONS OF APPROVAL:
1. NO STRUCTURES, INCLUDING BUILDINGS, PERMANENT OR PORTABLE SIGNS, LIGHTS, DISPLAYS, FENCES, WALLS, ETC. SHALL BE PERMITTED ON, OVER OR UNDER HIGHWAY RIGHT OF WAY.
 2. NO PARKING, CATERING OR SERVICING SHALL BE CONDUCTED WITHIN THE HIGHWAY RIGHT OF WAY.
 3. THE APPLICANT SHALL COMPLY WITH ALL APPLICABLE ORDINANCES AND REGULATIONS OF THE MUNICIPALITY OR OTHER STATE AGENCIES.
 4. THE DEPARTMENT HAS RELIED ON THE TITLE AND SUBDIVISION INFORMATION PROVIDED BY THE LANDOWNER. THE DEPARTMENT HAS NOT PERFORMED ADDITIONAL TITLE RESEARCH AND MAKES NO WARRANTY OR REPRESENTATION CONCERNING LANDOWNER'S LEGAL RIGHT OF ACCESS. IN THE EVENT OF A DISPUTE ABOUT THE LANDOWNER'S LEGAL RIGHT TO THE ACCESS PROVIDED HEREIN, THE LANDOWNER WILL DEFEND AND INDEMNIFY THE DEPARTMENT.
 5. THE DRIVEWAY SHALL BE CONSTRUCTED AS SHOWN ON SHEET C-6 OF THE PLAN SET DATED DECEMBER 2014. THE DRIVEWAY ACCESS POINT IS A MODIFICATION TO AN EXISTING ENTRANCE AND WAS DESIGNED FOR HAULING MATERIALS DEPARTING THE DRIVEWAY IN AN EASTERLY DIRECTION ALONG ROUTE 11. IF TRAFFIC PATTERNS CHANGE TO INCLUDE HAULING MATERIALS DEPARTING THE DRIVE AND RE-ENTERING THE DRIVEWAY ACCESS POINT FROM THE WESTERLY DIRECTION OF ROUTE 11, THEN A NEW DRIVEWAY PERMIT SHALL BE SUBMITTED FOR APPROVAL AND IT IS ANTICIPATED THAT A DECELERATION LANE WILL BE REQUIRED TO BE CONSTRUCTED.



CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION:

01/21/14 - ADD NOTES 27 THROUGH 31 TO GENERAL SITE PLAN NOTES.

GENERAL SITE PLAN NOTES:

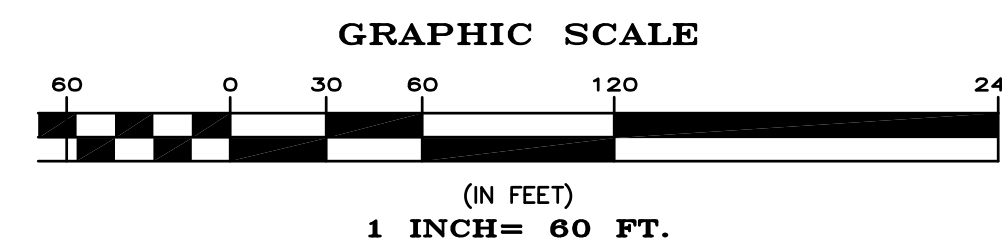
1. TOTAL PARCELS AREAS:
TAX MAP 216 - LOT 2 = 2.66 AC.
TAX MAP 216 - LOT 3 = 2.87 AC.
2. THIS PARCEL IS LOCATED IN GRANITE RIDGE DEVELOPMENT ZONE (GRD) AND THE CONSERVATION OVERLAY DISTRICT.
3. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXCAVATION OF LEDGE AND OVERBURDEN.
4. ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATION PRIOR TO ANY WORK BEING PERFORMED. THESE PLANS SHOW ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF SURVEY, OCTOBER 2013. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THESE PLANS, BUT IN EXISTENCE, IS NOT INTENDED OR IMPLIED.
5. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
GRANITE RIDGE ZONE (WITHOUT WATER & SEWER):
MINIMUM LOT SIZE = NO REGULATIONS
MINIMUM LOT FRONTAGE = 50'
MINIMUM YARD SETBACK:
FRONT = NO REGULATIONS
SIDE = NO REGULATIONS
REAR = NO REGULATIONS
MAXIMUM LOT COVERAGE = NO REGULATIONS
BUFFER TO WETLAND = 50'-FT
ORIENTATION: HORIZONTAL AND VERTICAL DATUMS - CITY OF ROCHESTER GIS.
SOIL TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE.
Hgb - HINCKLEY LOAMY SAND, 3 TO 8% SLOPES
Lb - LEICESTER - RIDGEBURY VERY STONEY FINE SANDY LOAM, 3 TO 8% SLOPES.
8. THE PROPOSED LOT IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 5/17/05 COMMUNITY PANEL 33017001840 PANEL 184 OF 405.
9. THE LOTS ARE SERVICED BY ONSITE WELL AND SEPTIC SYSTEM. MUNICIPAL WATER AND SEWER SYSTEMS ARE AVAILABLE.
10. JANET A. KELLER WAS GRANTED TWO, FIFTY FOOT POINTS OF ACCESS ON NH ROUTE 11, A LIMITED ACCESS HIGHWAY. SAID TRACT OF LAND IS THE PARENT PARCEL OF TM 216-1, 2, 3 & TM 221-163. SEE SCRD 686-57, DATED MAR. 20, 1958.
11. PARCELS ARE SUBJECT TO A SPECIAL EXCEPTION GRANTED BY THE ROCHESTER ZONING BOARD OF ADJUSTMENT ON JUNE 10, 2009 TO ARTICLE 42:23 SECTION 10(16) TO PERMIT EXCAVATION OF THE PROPERTY.
12. FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD ST., ROCHESTER, NH 03867. (603) 335-1338.
13. THIS DEVELOPMENT MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW - INCLUDING ALL PERTINENT PROVISIONS OF THE CITY OF ROCHESTER ZONING ORDINANCE UNLESS OTHERWISE SPECIFIED.
14. THE APPLICANT SHALL OBTAIN A STORMWATER MANAGEMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT (UNLESS DETERMINED TO BE UNNECESSARY BY THE CITY ENGINEER) AND FOLLOW THE REQUIREMENTS OF THE CITY ORDINANCE CHAPTER 50. THE PERMITTEE SHALL PREPARE A WRITTEN PLAN FOR MANAGING STORMWATER THAT ENTERS THE CONSTRUCTION SITE AND SHALL PRESENT IT TO THE INSPECTION ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE PERMITTEE SHALL FOLLOW BEST MANAGEMENT PRACTICES TO PREVENT EROSION IN AREAS WHERE SOIL HAS BEEN DISTURBED.
15. ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
16. SNOW SHALL NOT BE PILED IN SUCH A MANNER AS TO BLOCK THE VISIBILITY OF THE VEHICLES ON FARMINGTON ROAD AND ALL EXCESS SNOW SHALL BE REMOVED FROM THE SITE.
17. ALL ON SITE ACTIVITY IS RESTRICTED TO THE HOURS OF 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY.
18. ALL UTILITIES MUST BE UNDERGROUND, INCLUDING UTILITIES EXTENDED ONTO THE SITE FROM EXISTING POLES NEAR THE SITE. HOWEVER, IF AN ADDITIONAL POLE NEARBY IS ACROSS THE STREET, ONE ADDITIONAL POLE MAY BE PLACED ON/NEAR THE PROPERTY TO ALLOW FOR OVERHEAD EXTENSION OF WIRES ACROSS THE STREET. UTILITIES EXTENDING FROM ANY SUCH NEW POLE MUST BE UNDERGROUND. THE APPLICANT MAY WORK WITH THE CITY STAFF AS APPROPRIATE TO ADDRESS THIS REQUIREMENT.
19. THE CODE ENFORCEMENT OFFICER ADMINISTERS THE CITY OF ROCHESTER SIGN ORDINANCE. SIGNAGE SUBMITTED AS PART OF THIS SITE PLAN PACKAGE IS STILL SUBJECT TO HIS REVIEW TO ENSURE COMPLIANCE WITH THAT ORDINANCE AND OTHER APPLICABLE CODES. INDEPENDENT FROM THIS SITE PLAN REVIEW. IN ADDITION, IF ANY SIGNIFICANT CHANGE OR EXPANSION IS PROPOSED TO THE DESIGN OF THE APPROVED FREESTANDING SIGN OR TO THE OVERALL ADVERTISING SIGNAGE FOR THE SITE (NOT INCLUDING ACCESSORY SIGNAGE, SUCH AS HANDICAP PARKING SIGNS), THE PROPOSED SIGN DESIGNS MUST BE PRESENTED TO THE PLANNING BOARD FOR REVIEW PRIOR TO ISSUANCE OF THOSE SIGN PERMITS. A SIGN PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION OF ANY SIGNS ON SITE.
20. ALL ELEMENTS SHOWN ON THE APPROVED SITE PLAN MUST BE PROPERLY COMPLETED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, UNLESS APPROPRIATE SURETY IS PLACED WITH THE PLANNING DEPARTMENT.
21. NOTE THAT THIS APPROVAL IS FOR THE SITE PLAN ONLY. LIFE SAFETY CODE SITE REVIEW MUST BE REQUIRED AS PART OF THE BUILDING PERMIT PROCESS WHEN THE CONSTRUCTION PLANS ARE SUBMITTED. VARIOUS REQUIREMENTS REGARDING THE BUILDING DESIGN POSSIBLY INCLUDING A SPRINKLER SYSTEM - MAY BE SPECIFIED AT THAT TIME.
22. THE APPLICANT SHALL PROVIDE FOR TRAFFIC CONTROL (A POLICE DETAIL AND/OR FLAG PERSON, AS APPROPRIATE) ON ROUTE 11 IF NECESSARY AS DETERMINED BY THE POLICE DEPARTMENT.
23. ALL LOADED TRUCKS MUST TURN RIGHT OUT OF THE SITE ONTO ROUTE 11.
24. THE APPLICANT SHALL OBTAIN ALL NECESSARY BLASTING PERMITS FROM THE CITY OF ROCHESTER FIRE DEPARTMENT.
25. NO FUEL (OTHER THAN FUEL TRUCKS) AND NO HAZARDOUS MATERIALS MAY BE STORED ON SITE.
26. A COPY OF THE NOTICE OF DECISION MUST BE POSTED ON SITE.
27. PRIOR TO THE COMMENCEMENT OF ANY ONSITE WORK, THE LIMIT OF CUTTING ARE TO BE FLAGGED AND ORANGE CONSTRUCTION FENCE IS TO BE PLACED ALONG THE 50-FOOT WETLANDS BUFFER AT THE FRONT OF THE PROPERTY AND THE LOCATION OF THESE MARKERS ARE TO BE VERIFIED BY THE PLANNING DEPARTMENT STAFF.
28. WETLANDS BUFFER AREAS ARE NOT TO BE UTILIZED OR DISTURBED, UNLESS A CONDITIONAL USE PERMIT IS GRANTED BY THE PLANNING BOARD.
29. PROPOSED PAVED SHOULDER SHALL BE REMOVED ONCE ALL EXCAVATION HAS OCCURRED UNLESS WARRANTED FOR AS PART OF A FUTURE SITE PLAN.
30. A DRAINAGE EASEMENT SHALL ALLOW FOR CONVEYANCE AND TREATMENT OF STORMWATER FROM MAP 216, LOT 2 ACROSS MAP 216, LOT 3.
31. AN ACCESS EASEMENT SHALL BE GRANTED TO ALLOW ACCESS TO AND FROM FARMINGTON ROAD ACROSS MAP 216, LOT 2 FOR THE BENEFIT OF LOT 3. TEMPORARY ACCESS EASEMENT SHALL BE GRANTED TO LOT 2, MAP 216 ACROSS MAP 216, LOT 3 FOR EXCAVATION OF LAND IN THE REAR.

TAX MAP 216 - LOT 2
OWNER OF RECORD
DAVID S. THAYER
596 GOVERNORS RD
MILTON, NH 03851
SCRD 4152-849

TAX MAP 216 - LOT 3
OWNERS OF RECORD
RICHARD P. THAYER REVOCABLE TRUST
RICHARD P. & DIANE J. THAYER, TRUSTEES
407 MERRYMEETING RD
NEW DURHAM, NH 03855-2100
SCRD 4152-787

OVERALL
SITE PLAN
NH ROUTE 11 - FARMINGTON ROAD
STRAFFORD COUNTY
ROCHESTER, N.H.

PREPARED FOR:
COYOTE CREEK OUTFITTERS
SCALE: 1"= 60' JANUARY 2014



FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

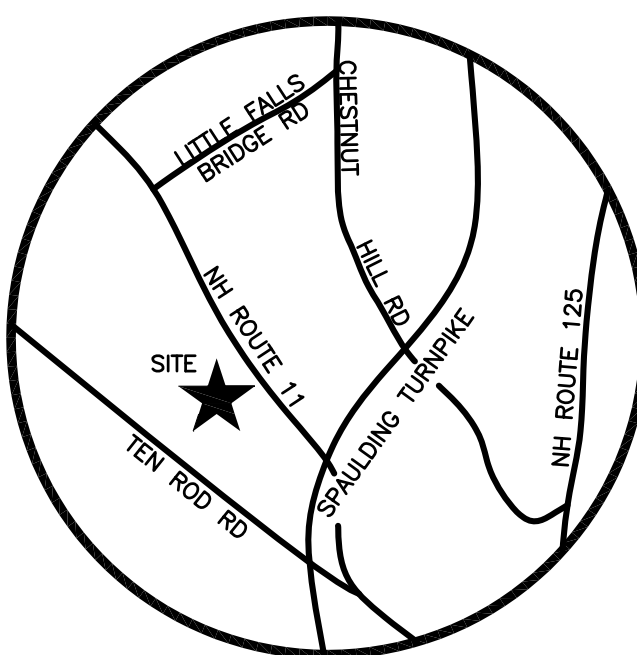
NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

C-1

LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINES
- EXISTING TREE LINE
- EXISTING OVERHEAD WIRES
- EXISTING STOCKADE FENCE
- EXISTING CHAINLINK FENCE
- 234 EXISTING CONTOUR LINE
- EXISTING DRAIN LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING UTILITY POLE
- EXISTING MONUMENTS
- EXISTING DRAIN MANHOLE
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING HYDRANT
- EXISTING WATER GATE VALVE OR SHUT-OFF
- EXISTING GAS GATE VALVE
- EXISTING TEST PIT LOCATION & NUMBER
- PROPOSED CONTOURS
- PROPOSED SPOT GRADE
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- ▲ PROPOSED FLARED END SECTION (FES)
- ▲ PROPOSED STONE CHECK DAM
- ▲ PROPOSED INLET PROTECTION
- PROPOSED SILT SOCK OR EROSION CONTROL MIX BERM
- PROPOSED ORANGE CONSTRUCTION FENCE

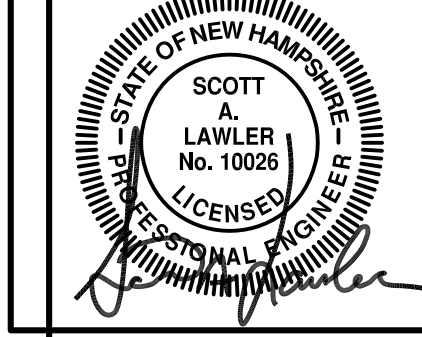
LOCUS MAP
NOT TO SCALE

FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

31 Mooney Street, Alton, N.H. 603-875-3948



CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION:

01/21/14 - "NO PARKING" SIGNS AND PARKING LINE ERADICATION, REVISE CONSTRUCTION ENTRANCE LOCATION AND REPLACE SILT FENCE WITH SILT SOCK OR EROSION CONTROL MIX BERM.

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

TAX MAP 216 - LOT 2
OWNER OF RECORD
THAYER DAVID S. THAYER
596 GOVERNORS RD
MILTON, NH 03851
SCRD 4152-849

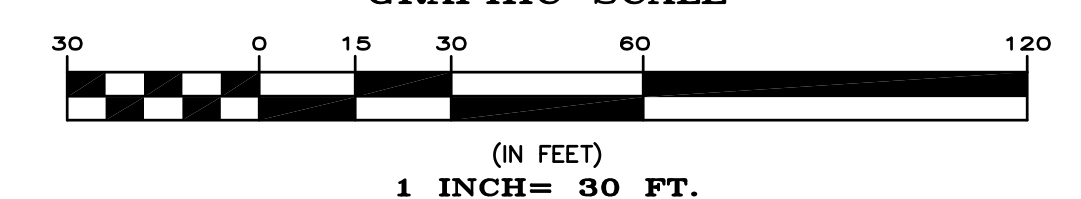
TAX MAP 216 - LOT 3
OWNERS OF RECORD
RICHARD P. THAYER REVOCABLE TRUST
RICHARD P. & DIANE J. THAYER, TRUSTEES
407 MERRYMEETING RD
NEW DURHAM, NH 03855-2100
SCRD 4152-787

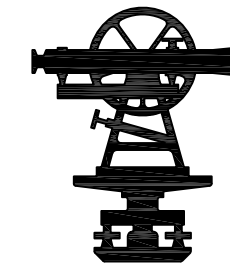
**GRADING, DRAINAGE AND
EROSION CONTROL PLAN**
NH ROUTE 11 - FARMINGTON ROAD
STRAFFORD COUNTY
ROCHESTER, N.H.

PREPARED FOR:
COYOTE CREEK OUTFITTERS

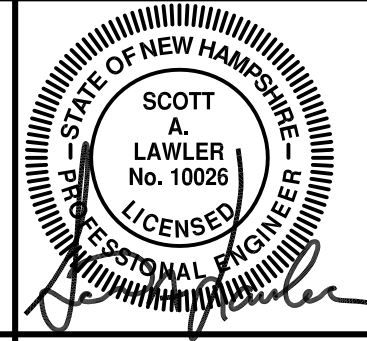
SCALE: 1" = 30' JANUARY 2014

GRAPHIC SCALE

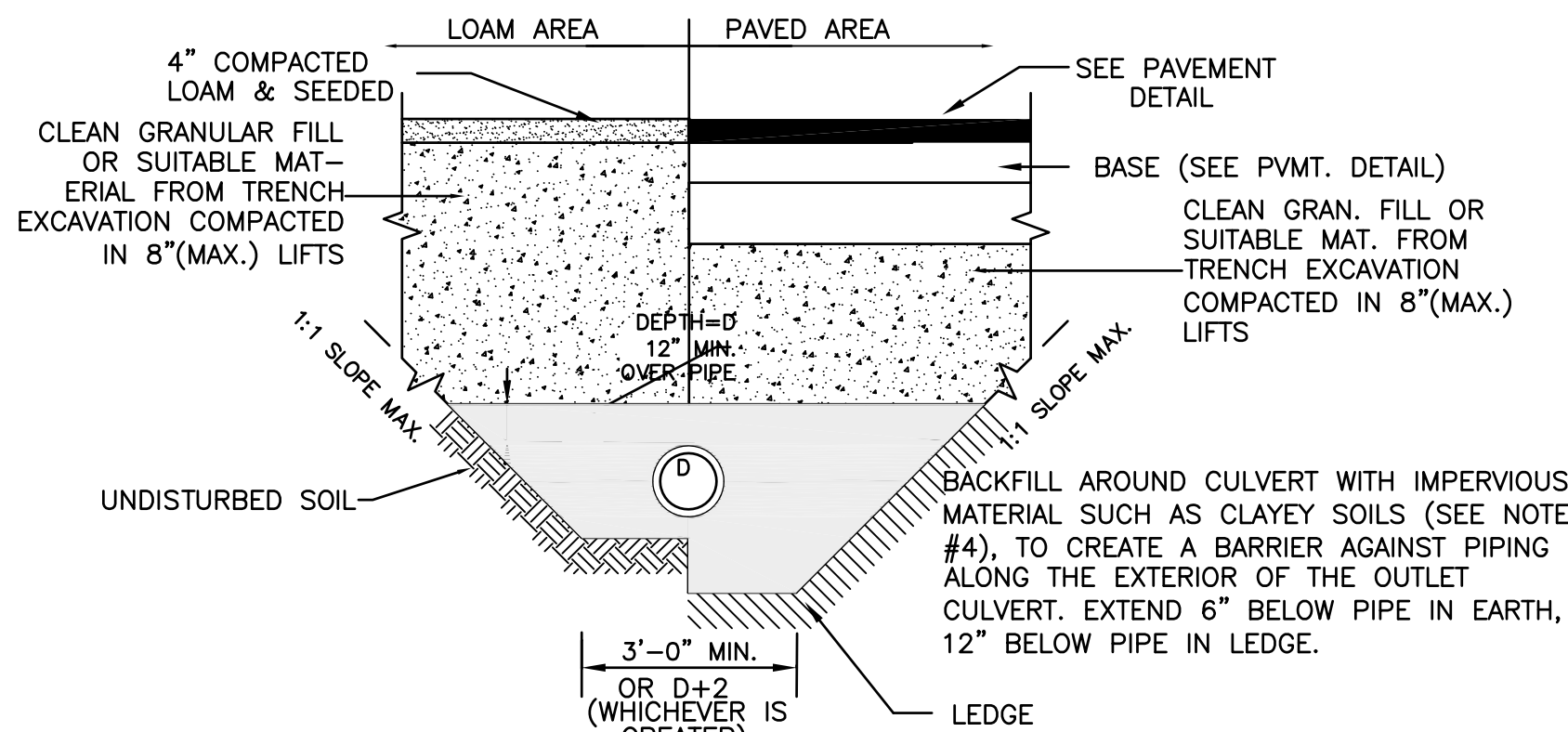




CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION:

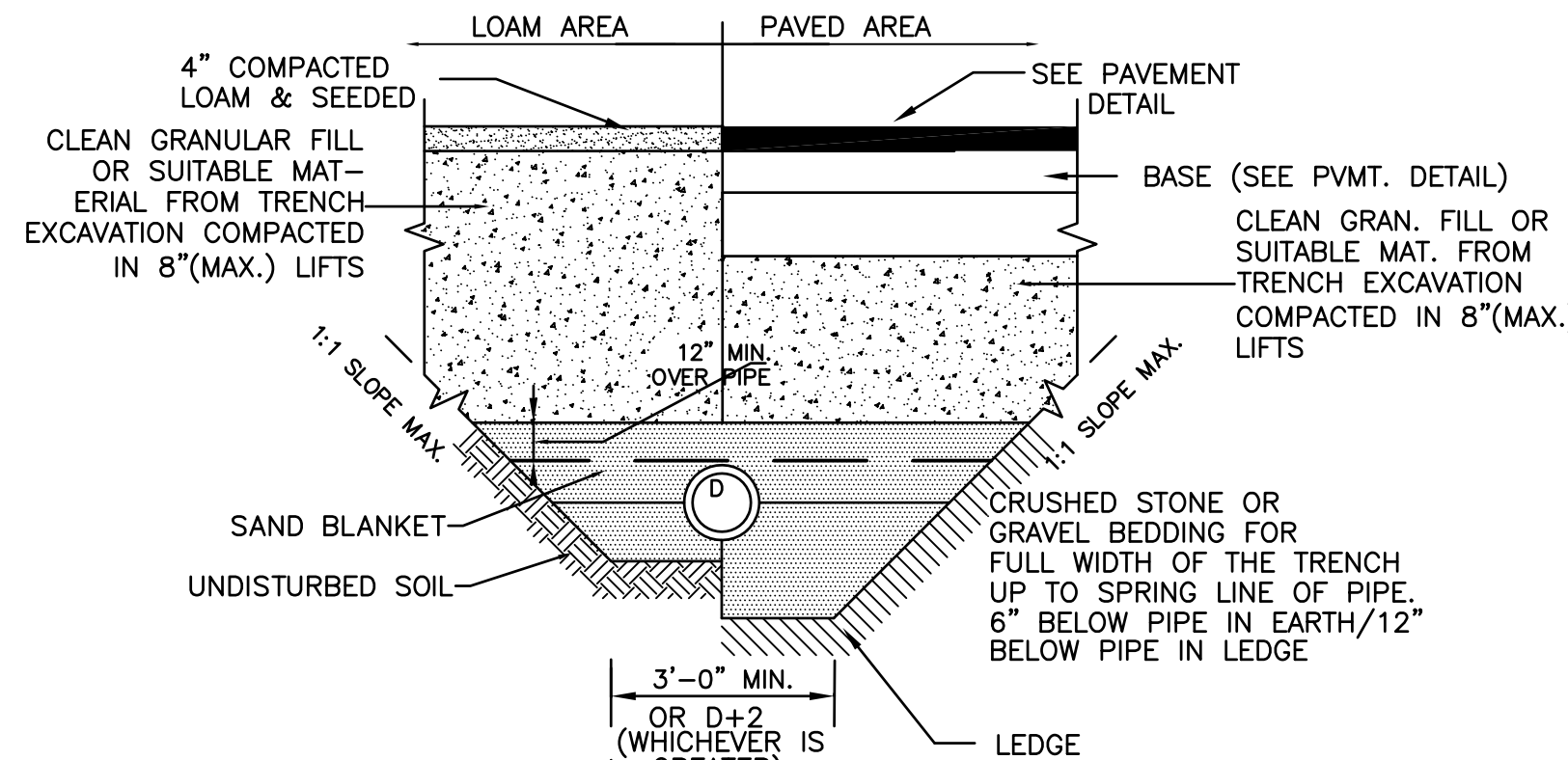


- NOTE:
1. ALL CORRUGATED PLASTIC PIPE SHALL BE DUAL WALLED POLY-ETHYLENE ADS N-12 OR EQUAL.
 2. CLEAN GRANULAR FILL SHALL MEET THE SPECIFICATIONS OF BERM FILL MATERIAL IN "DETENTION POND CONSTRUCTION" NOTE #4.
 3. IMPERVIOUS MATERIAL SHALL BE PLACED AS SHOWN IN THE DETENTION POND PROFILES.
 4. IMPERVIOUS MATERIAL SHALL MEET THE GRADATION SPECIFIED IN THE TABLE TO THE RIGHT AND BE COMPACTED TO 95% MAXIMUM PROCTOR DENSITY IN 8" MAX. LIFTS.

IMPERVIOUS FILL MATERIAL GRADATION:

SIEVE SIZE:	%PASSING:
#4	95-100
#40	60-90
#100	40-60
#200	25-45

SECTION 1: TRENCH DETAIL FOR PRINCIPLE SPILLWAY PIPE
NOT TO SCALE



- NOTE:
1. ALL CORRUGATED PLASTIC PIPE SHALL BE DUAL WALLED POLY-ETHYLENE ADS N-12 OR EQUAL.
 2. CLEAN GRANULAR FILL SHALL MEET THE SPECIFICATIONS OF BERM FILL MATERIAL IN "DETENTION POND CONSTRUCTION" NOTE #4.
 3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

SECTION 2: TRENCH DETAIL FOR PRINCIPLE SPILLWAY PIPE
NOT TO SCALE

DETENTION BASIN MAINTENANCE:

1. EMBANKMENT: THE EMBANKMENT SHOULD BE INSPECTED ANNUALLY TO DETERMINE IF RODENT BURROWS, WET AREAS, OR EROSION OF THE FILL IS TAKING PLACE.
2. VEGETATION: THE VEGETATED AREAS OF THE STRUCTURE SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH. LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOILS TESTS.
3. THE EMBANKMENT SHALL BE MOWED ON A MINIMUM ANNUAL BASIS IN ORDER TO ELIMINATE WOODY GROWTH.
4. INLETS: THE PIPE INLETS AND SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED.
5. OUTLETS: PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET.
6. SEDIMENTS: DURING CONSTRUCTION, SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACH THE PREDETERMINED DESIGN ELEVATION, THE SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF. AFTER CONSTRUCTION IS COMPLETE THE BASIN SHALL BE INSPECTED ANNUALLY. WHEN SEDIMENT ACCUMULATIONS REACH THE PREDETERMINED DESIGN ELEVATION, THE SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF.
7. SAFETY INSPECTIONS: ALL PERMANENT IMPOUNDMENTS SHOULD BE INSPECTED BY A QUALIFIED PROFESSIONAL ENGINEER ON A PERIODIC BASIS. IF THERE IS POTENTIAL FOR SIGNIFICANT DAMAGE OR LOSS OF LIFE DOWN STREAM, THE INSPECTION SHOULD BE CARRIED OUT ANNUALLY. THE DESIGNATED INDIVIDUAL OR GROUP SHOULD ALSO MAKE INSPECTIONS AFTER EVERY MAJOR STORM EVENT. WARNING SIGNS SHOULD BE POSTED AT AND AROUND THE POND.
8. REMOVE ANY TREE AND OR BRUSH GROWTH SEMI-ANNUALLY.
9. REPAIR ANY ERODED AREA OF THE EMBANKMENT WITH THE APPROPRIATE GRASS COVER.
10. SEDIMENT SHALL BE REMOVED FROM THE DETENTION BASIN WHEN IT REACHES THE FOLLOWING ELEVATION: 251.5

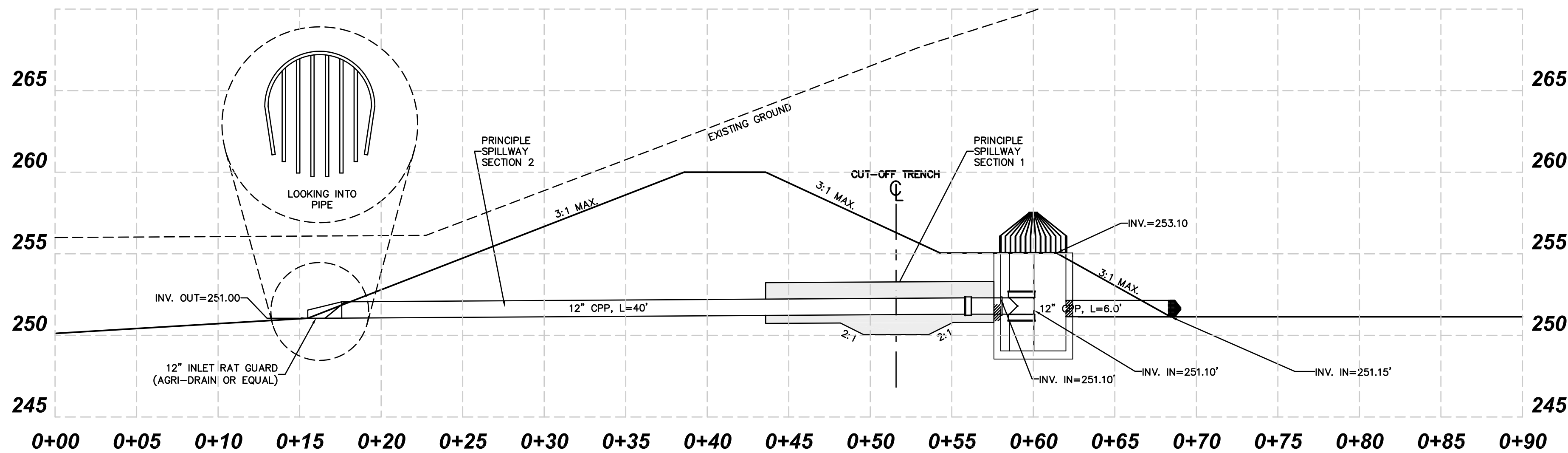
DETENTION BASIN CLEANOUT ELEVATION = 251.5

DETENTION BASIN CONSTRUCTION:

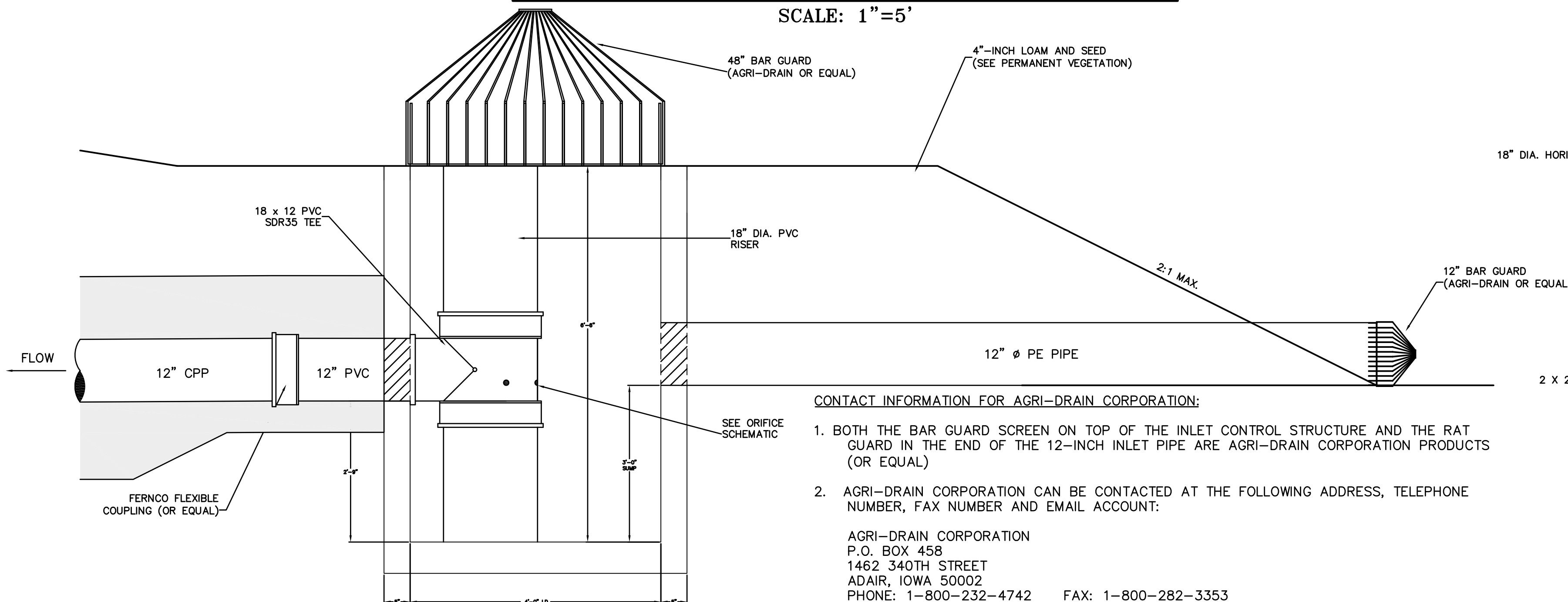
1. CLEAR AND GRUB THE AREA WHERE THE BASIN IS TO BE LOCATED. STOCKPILE LOAM FOR REUSE LATER.
2. THE FOUNDATION AREA SHALL BE SCARIFIED PRIOR TO PLACING FILL. ALL UNSUITABLE MATERIAL UNDER THE BERM SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION MATERIAL.
3. THE CUTOFF TRENCH SHALL BE EXCAVATED AND CONSTRUCTED AS SHOWN ON THE PLANS. THE TRENCH SHALL EXTEND UNDER THE ENTIRE DAM AND TIE INTO THE ORIGINAL GROUND ON THE SIDES OF THE BASIN.
4. THE BERM SHALL BE CONSTRUCTED BEGINNING FROM THE LOWEST POINT UNIFORMLY ALONG ITS ENTIRE LENGTH. PLACE MATERIALS IN MAXIMUM 8" LIFTS COMPACTED TO 95% MAXIMUM PROCTOR DENSITY. FILL MATERIAL SHALL HAVE THE FOLLOWING GRADATION:

BERM FILL MATERIAL:	IMPERVIOUS FILL MATERIAL:
%PASSING:	SIEVE SIZE:
100	#4
25-85	#40
10-25	#100
	#200
	%PASSING:
	95-100
	60-90
	40-60
	25-45

5. THE P.E. OUTLET PIPE TO THE DETENTION BASINS SHALL BE GROUTED INTO THE STANDPIPES TO INSURE A WATER TIGHT CONNECTION AT THE OUTLET.
6. THE P.E. PIPE CULVERTS TO THE DETENTION BASINS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS BETWEEN INDIVIDUAL PIPE SECTIONS SHALL BE PER MANUFACTURER SPECIFICATION USING MANUFACTURER APPROVED MATERIALS.
7. THE DETENTION BASINS SHALL BE STABILIZED AND HAVE ESTABLISHED GRASS GROWTH PRIOR TO RUNOFF BEING DIRECTED TO IT.

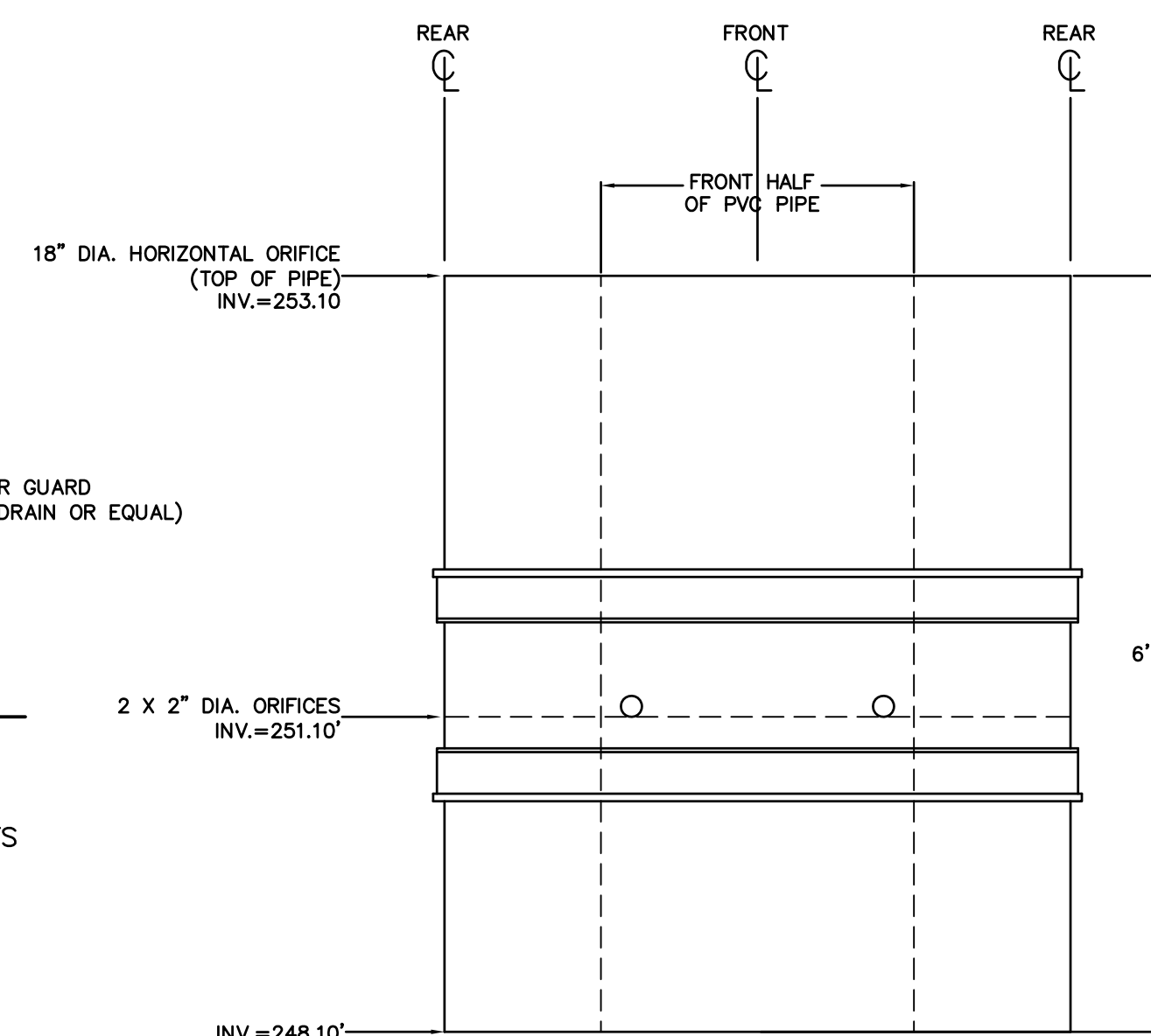


DETENTION BASIN PRINCIPLE SPILLWAY PROFILE
SCALE: 1"=5'



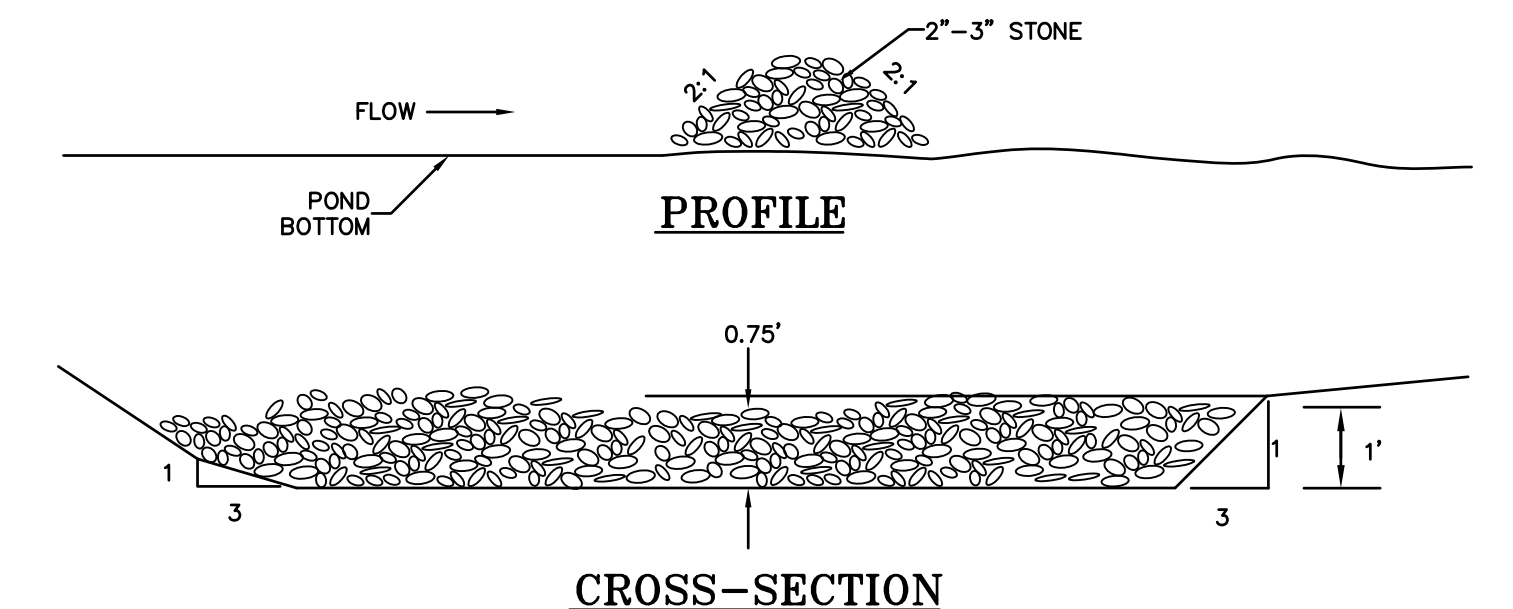
DETENTION BASIN 2 OUTLET STRUCTURE DETAIL

NOT TO SCALE



ORIFICE SCHEMATIC

NOT TO SCALE



STONE BERM DETAIL
NOT TO SCALE

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

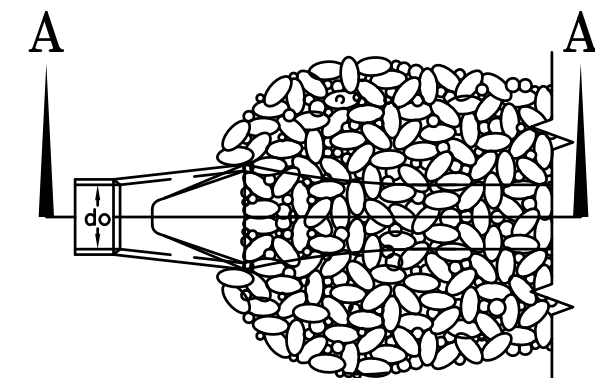
CERTIFIED BY: _____ DATE: _____

DETENTION BASIN DETAILS
NH ROUTE 11 - FARMINGTON ROAD
STRAFFORD COUNTY
ROCHESTER, N.H.

PREPARED FOR:
COYOTE CREEK OUTFITTERS

SCALE: AS SHOWN JANUARY 2014

FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

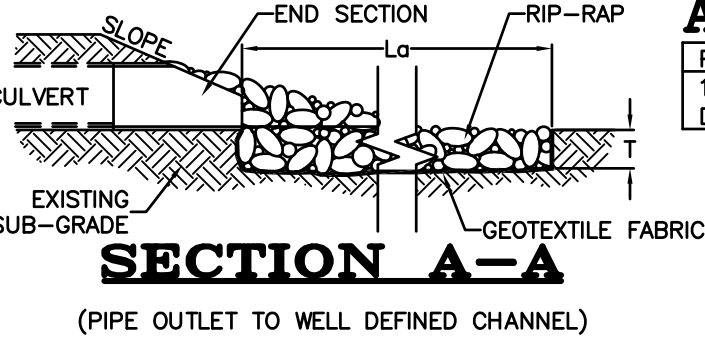


RIP-RAP GRADATION

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)
100	5 TO 6
85	4 TO 5
50	3 TO 4
15	1 TO 2

APRON DIMENSION TABLE

PIPE OUTLET	W ₀	W	L ₀	T	d50
12" OPP OUTLET	3'	8'	8'	9"	3"
DETENTION BASIN					



SECTION A-A

(PIPE OUTLET TO WELL DEFINED CHANNEL)

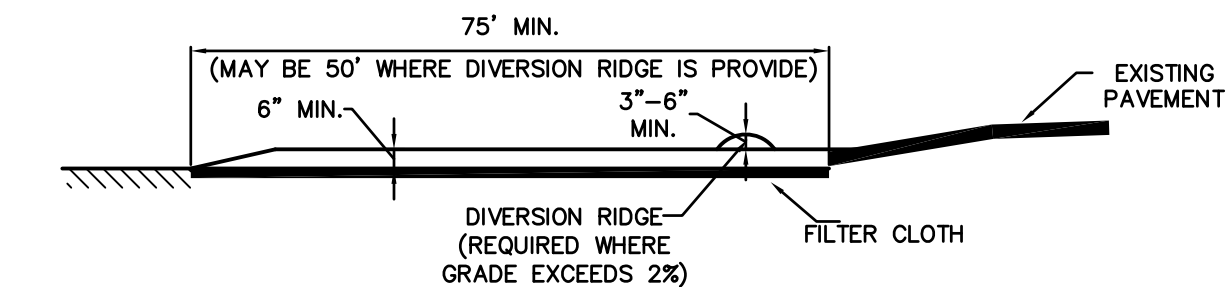
- NOTES:
- ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT OF THE PIPE CULVERT.
 - THE LARGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND SIMPLICITY.
 - APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

- CONSTRUCTION SPECIFICATIONS:
- PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRADES SHOWN ON THE PLANS.
 - MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP-RAP.
 - THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
 - GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF 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 (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
 - 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.
 - RIP-RAP SIZE CHOSEN FOR THE WORST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

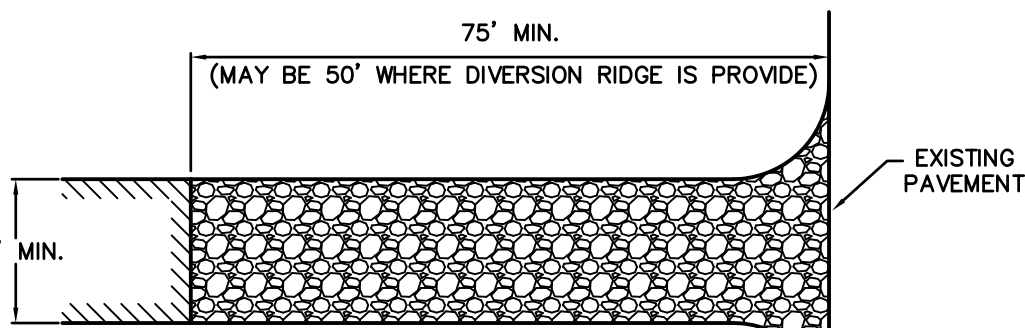
- MAINTENANCE NOTES:
- OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.
 - THE CHANNEL IMMEDIATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING.
 - THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

NOT TO SCALE



PROFILE



PLAN

- MAINTENANCE REQUIREMENTS:
- WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHOULD BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHOULD THEN BE RECONSTRUCTED.
 - THE CONTRACTOR SHOULD SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED WAY.
 - WHEN WHEEL WASHING IS REQUIRED, IT SHOULD BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

- CONSTRUCTION SPECIFICATIONS:
- THE MINIMUM STONE USED SHOULD BE 3-INCH CRUSHED STONE.
 - THE MINIMUM LENGTH OF THE PAD SHOULD BE 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.
 - THE PAD SHOULD BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
 - THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.
 - THE PAD SHOULD BE AT LEAST 6 INCHES THICK.
 - THE GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
 - THE PAD SHOULD BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE Voids IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
 - NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

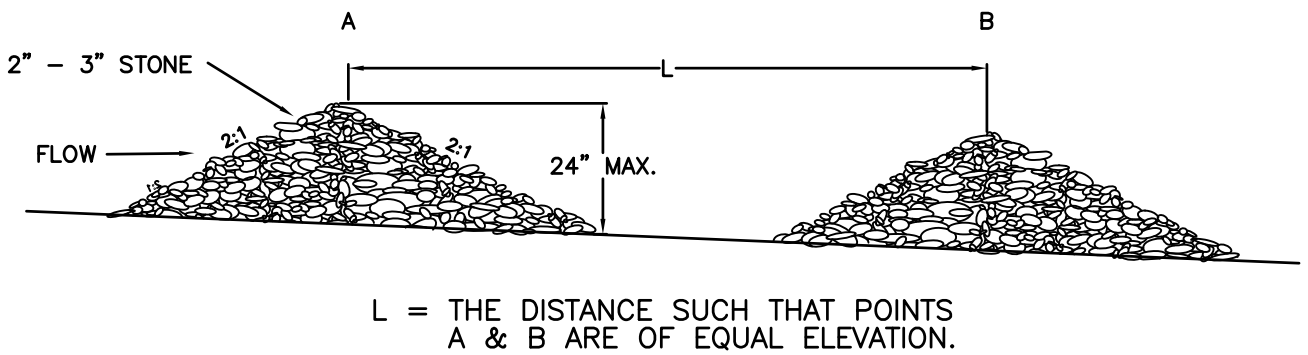
TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

SPACING BETWEEN CHECK DAMS	LENGTH (FT)
0.020	75
0.030	50
0.040	37
0.050	30
0.080	19
0.100	15
0.120	13
0.150	10

DRAINAGEWAY CROSS-SECTION



SPACING BETWEEN STONE CHECK DAMS

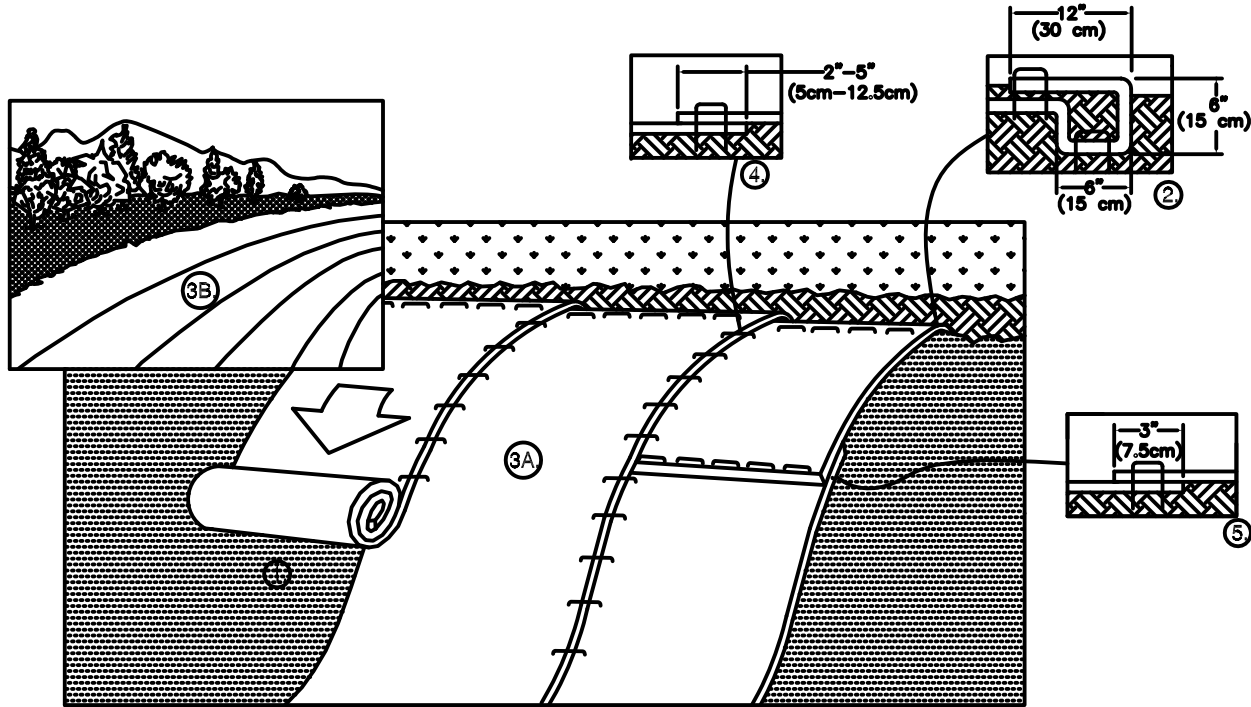
- CONSTRUCTION SPECIFICATIONS:
- STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
 - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED.
 - STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

- MAINTENANCE NOTES:
- TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE INSPECTED AFTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPAIRED IMMEDIATELY.
 - PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE.
 - WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED.
 - SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURE.

STONE CHECK DAM INSTALLATION DETAIL

NOT TO SCALE

NORTH AMERICAN GREEN
EROSION CONTROL PRODUCTS
Guaranteed SOLUTIONS
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
800-772-2040
www.nagreen.com



SLOPE INSTALLATION

- MAINTENANCE REQUIREMENTS:
- ALL BLANKET AND MATS SHOULD BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
 - ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.

- CONSTRUCTION SPECIFICATIONS:
- MANUFACTURE'S INSTALLATION INSTRUCTIONS:
 - PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (recp's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE recp's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF recp's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE recp's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF recp's BACK OVER SEED AND COMPACTED SOIL. SECURE recp's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE recp's.
 - ROLL THE recp's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. recp's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL recp's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL recp's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON recp's TYPE.
 - CONSECUTIVE recp's SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE recp's WIDTH.
 - NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE recp's.
 - SITE PREPARATION:
 - PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATING WITH THE SOIL.
 - GRADE AND SHAPE AREA IF INSTALLATION.
 - REMOVE ALL ROCKS, CLOUDS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
 - PREPARE SEEDED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
 - INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
 - SEEDING:
 - SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATIONS. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEED.
 - WHEN SOIL FILLING IS SPECIFIED, SEED THE MATING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.

PERMANENT VEGETATION SAND/GRAVEL PIT RECLAMATION SEEDING RECOMMENDATIONS

MIX	SPECIES	VARIETIES	LBS./ACRE
			MIX OPTION IN ()
1	SWITCHGRASS COASTAL PANIC GRASS BIG BLUESTEM LITTLE BLUESTEM SAND LOVEGRASS TOTAL	TRAILBLAZER, PATHFINDER ATLANTIC NIAGARA, KAW ALDOUS, CAMPER, BLAZE BEND, NE-27 TOTAL	(1) 6 (2) 2 (3) 6 5 - 4 2 4 2 6 6 16 15 15
1	FERTILIZER & LIME LIME FERTILIZER MULCH	LOW PHOSPHATE	2000 (1 TON) 500 (10-20-20) 500-700
2	FLATPEA PERENNIAL PEA CROWN VETCH TALL FESCUE TOTAL	LATHCO LANCER PENNSHIFT, CHEMBURG KY-31, REBEL, KEN-HI TOTAL	(1) 10 (2) 2 (3) 10 2 10 2 32
3	TALL FESCUE RED TOP BIRDSFOOT TREFOIL TOTAL	KY-31 STRECKER, COMMON VIKING, EMPIRE TOTAL	(1) 20 (2) 2 (3) 6 6 30
2 & 3	FERTILIZER & LIME LIME FERTILIZER MULCH	LOW PHOSPHATE	4000 (2 TON) 500 (10-20-20) 2-3 TON (MIX 2) 1-2 TON (MIX 3)

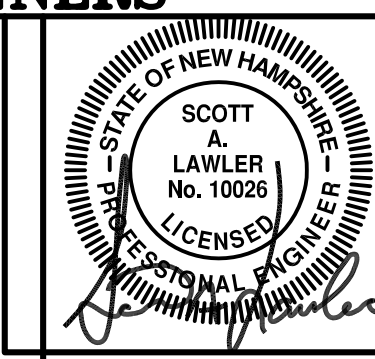
SOURCES:
1. USDA, TECHNICAL NOTE PM-NH-24, REVISED APRIL 1991, "VEGETATING NEW HAMPSHIRE SAND AND GRAVEL PITS"

TEMPORARY EROSION CONTROL BLANKET DETAIL

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION:

TEMPORARY VEGETATION:

SPECIFICATIONS:

- SITE PREPARATION:
- INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
 - GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - RUNOFF SHOULD BE DIVERTED FROM THE SEEDED AREA.
 - ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHOULD INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDING PREPARATION:

- STONES AND TRASH SHOULD BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
- WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
- IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING SEASON.
- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*

*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 600 LB./ACRE (13.8 LB./1,000-SF)*

*LOW PHOSPHATE FERTILIZER (N-P205-K20) OR EQUIVALENT

- FERTILIZER SHOULD BE RESTRICTED TO LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 AND 250-FT FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25-FT OF A SURFACE WATER BODY. THESE ARE THE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

SEEDING:

- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
- TEMPORARY SEED SHOULD TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
- AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL. 3.
- VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.

MAINTENANCE REQUIREMENTS:

- TEMPORARY SEEDING SHOULD BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHOULD BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.
- BASED ON INSPECTION, AREAS SHOULD BE RESEED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHOULD BE IMPLEMENTED.
- IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

SOURCES:

- NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLE 4-1
- MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

PERMANENT VEGETATION:

SPECIFICATIONS:

- SITE PREPARATION:
- INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
 - GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - RUNOFF SHOULD BE DIVERTED FROM THE SEEDED AREA.
 - ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHOULD INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDING PREPARATION:

- WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHOULD BE ROLLED TO FIRM THE SEEDED WHEREVER FEASIBLE.
- REMOVE FROM THE SURFACE ALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLOUDS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
- INSPECT SEEDED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
- WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
- IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING SEASON.

- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE RATES LISTED IN THE TABLE.
- FERTILIZER SHOULD BE RESTRICTED TO LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 AND 250-FT FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25-FT OF A SURFACE WATER BODY. THESE ARE THE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

SEEDING:

- MIX SELECTION:
SEED MIX IS SELECTED ON PERCENT WEIGHT PASSING THE #200 SIEVE FOR THE RECLAIMED BASE SOILS (I.E. THOSE UNDER THE 4-6-INCH LOAM).

X < 15% USE MIX 1
15% < X < 20% USE MIX 1 OR 2
20% < X USE MIX 3

- INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.

- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.

- WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
- SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHOULD BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35% OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL. 3. AND DELAY RESEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

- AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL. 3.
- VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.

HYDROSEEDING:

- WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

- SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY).

- LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.

- SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

MAINTENANCE REQUIREMENTS:

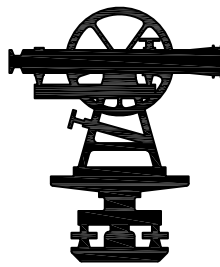
- PERMANENT SEEDED AREAS SHOULD BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHOULD CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
- SEEDED AREAS SHOULD BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
- BASED ON INSPECTION, AREAS SHOULD BE RESEED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
- AT A MINIMUM 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.
- IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

EROSION CONTROL DETAILS NH ROUTE 11 - FARMINGTON ROAD STRAFFORD COUNTY ROCHESTER, N.H.

PREPARED FOR:

COYOTE CREEK OUTFITTERS

SCALE: AS SHOWN JANUARY 2014



SOIL STOCKPILE PRACTICES:

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

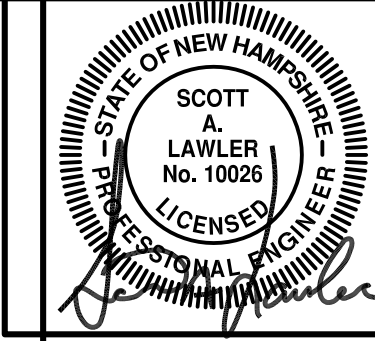
WINTER STABILIZATION & CONSTRUCTION PRACTICES:

- MAINTENANCE REQUIREMENTS:**
1. MAINTENANCE MEASURES SHOULD BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHOULD CONDUCT INSPECTION OF THE INSTALLED EROSION CONTROL PRACTICES AND AS NEEDED, TO INFORM REPAIRS TO INSURE THEIR CONTINUED FUNCTION.
 2. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHOULD CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH).
- SPECIFICATIONS:**
- THE FOLLOWING STABILIZATION TECHNIQUES SHOULD BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.

THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE LIMITED TO 1-ACRE AND SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSM, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT.

- STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS:
1. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHOULD BE SEED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NHSM, VOL. 3 FOR SPECIFICATION).
 2. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHOULD BE SEED AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
 3. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
 5. ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
 6. WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX.
 7. MULCH SHOULD BE RE-ESTABLISHED PRIOR TO ANY RAIN OR SNOWFALL. NO SOIL STOCKPILE SHOULD BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WETLAND OR OTHER WATER RESOURCE AREA.
 8. FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEN MATERIAL STOCKPILES CAN MELT IN SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO HIGH SOIL MOISTURE CONTENT.
 9. INSTALLATION OF EROSION CONTROL BARRIERS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
 10. ALL GRASS-LINED DITCHES AND CHANNELS SHOULD BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND CHANNELS WHICH DO NOT EXHIBIT 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHOULD BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY A PROFESSIONAL ENGINEER. IF STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
 11. ALL STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
 12. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHOULD BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.
 13. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERM OR OTHER CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION:

01/21/14 - REPLACE SILT FENCE DETAIL WITH SILT SOCK OR EROSION CONTROL MIX BERM DETAIL.

GENERAL CONSTRUCTION PHASING:

1. **STABILIZATION:**

A SITE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:

 - a) **IN AREAS THAT WILL NOT BE PAVED:**
 - i) A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
 - ii) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
 - iii) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
 - b) **IN AREAS TO BE PAVED:**
 - i) BASE COURSE GRAVELS HAVE BEEN INSTALLED.
2. **TEMPORARY STABILIZATION:**

ALL AREAS OF EXPOSED OR DISTURBED SOIL SHOULD BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE. UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.
3. **PERMANENT STABILIZATION:**

ALL AREAS OF EXPOSED OR DISTURBED SOIL SHOULD BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.
4. **MAXIMUM AREA OF DISTURBANCE:**

THE AREA OF UNSTABILIZED SOIL SHOULD NOT EXCEED 5 ACRES AT ANY TIME.
5. ONLY DUSTING, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.

- a) FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.
 - b) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
6. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHOULD BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C3.
 7. ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHOULD BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C3.
 8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHOULD BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.
 9. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES".
 10. SLOPES SHOULD NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.
 11. AREAS TO BE FILLED SHOULD BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.
 12. AREAS SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHOULD BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.
 13. ALL FILLS SHOULD BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SITE UTILITIES, CONDUITS AND OTHERWISE SHOULD BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
 14. IN GENERAL, FILLS SHOULD BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHOULD REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.
 15. ANY AND ALL FILL MATERIAL SHOULD BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4" THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.
 16. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHOULD BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
 17. THE OUTER FACE OF THE FILL SLOPE SHOULD BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFACE ROUGHENING" IN THE NHSM, VOL. 3.
 18. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.
 19. USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT/FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. ALL BENCHES SHOULD BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
 20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHOULD BE EVALUATED BY A PROFESSIONAL ENGINEER (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHOULD BE REVISED TO PROPERLY MANAGE THE CONDITION.
 21. STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, CRUSHED STONE, COMPOST BLANKET, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
 22. ALL GRADED AREAS SHOULD BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

ABOVE NOTES EXCEPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (NHSM, VOL. 3)

PROJECT SPECIFIC CONSTRUCTION PHASING:

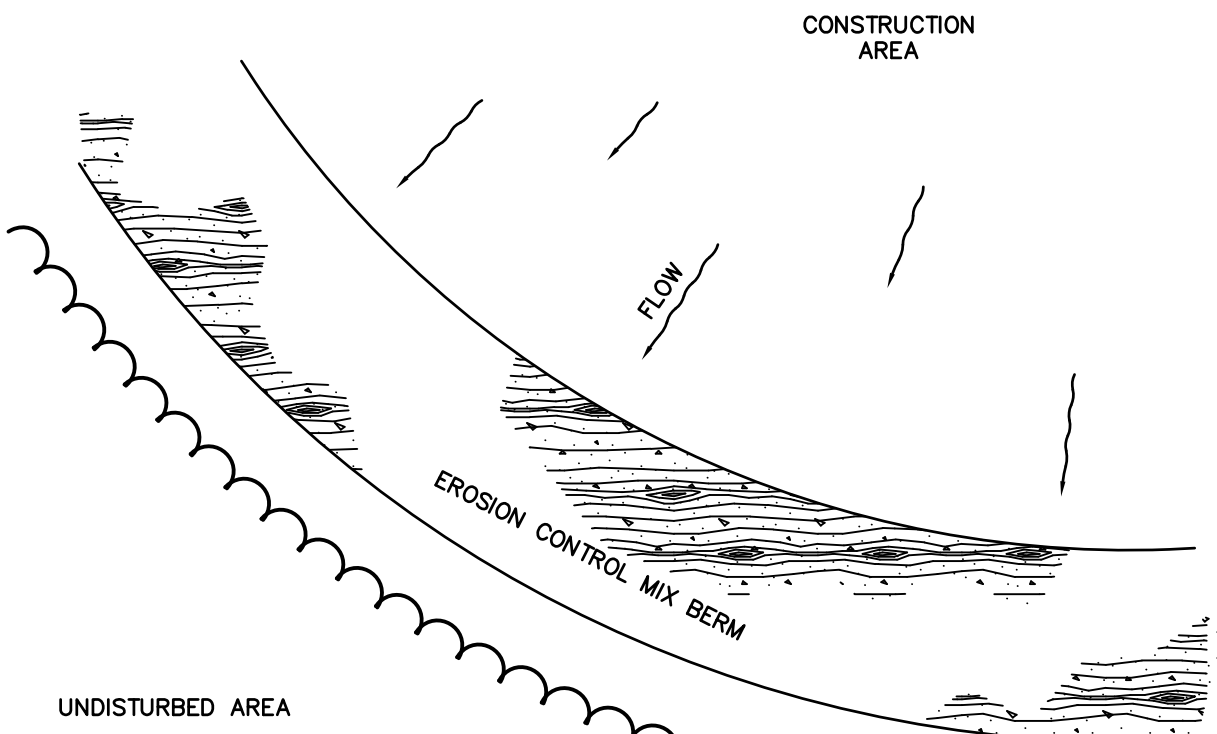
1. REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION PHASING. THE "GENERAL CONSTRUCTION PHASING" NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.
2. INSTALL ALL CONSTRUCTION FENCE AND TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE, STONE CHECK DAMS, ETC.) AROUND THE OUTER PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C3.
3. CLEAR, GRUB AND STRIP THE SITE. STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
4. INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED DRIVEWAY ON ROUTE 108. MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT DETAIL.
5. STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILES PRACTICES". MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES".
6. BEGIN THE BLASTING FOR THE GRAVEL MINING OPERATION. BLASTING REPORTS SHALL BE KEPT AND FILED WITH NHDES ALTERATION OF TERRAIN AS REQUIRED BY THE RSA'S AND REGULATIONS.
7. AS SOON AS POSSIBLE, PERFORM THE NECESSARY CUTS AND FILLS TO CONSTRUCT THE DETENTION BASINS AS DEPICTED ON SHEET C3 AND IN ACCORDANCE WITH THE DETENTION BASIN DETAILS.
8. UPON COMPLETION OF CUTS AND FILLS OF THE DETENTION BASIN, THE BOTTOM AND SIDE SLOPES OF THE BASIN SHALL BE LOAMED AND SEEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
9. NO STORMWATER CAN BE DIRECTED TO THE DETENTION BASIN UNTIL IT IS DEEMED STABILIZED.
10. THE DETENTION BASIN MUST BE STABILIZED PRIOR TO ROUGH GRADING (I.E. BLASTING, MINING, EARTHMOVING, ETC.) ANY AREAS THAT DRAIN TO THE BASIN(S).
11. AS MINING PROGRESSES, INSTALL ADDITIONAL SEDIMENT CONTROL BARRIERS (I.E. SILTENCE AND CHECK DAMS AS INSTALLATION BECOMES POSSIBLE).
12. LEDGE BLASTING SHALL PROGRESS TO AT LEAST 12-INCHES BELOW FINISHED GRADE, TO ALLOW FOR THE SPREADING OF AT LEAST 6-INCHES OF SAND/GRAVEL OVER THE MINE FLOOR AS WELL AS 6-INCHES OF LOAM OVER THE SAND/GRAVEL. THE MINE FLOOR SHALL BE LOAMED AND SEEDED ONCE FINAL GRADE IS ACHIEVED.
13. ALL CUT AND FILL SLOPES AND LAWN AREAS SHALL BE LOAMED AND SEEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
14. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA NOT BEING ACTIVELY MINED BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF NECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GENERAL CONSTRUCTION PHASING NOTES" AND NHSM, VOL. 3 SHOULD BE EMPLOYED.

MAINTENANCE AND INSPECTION:

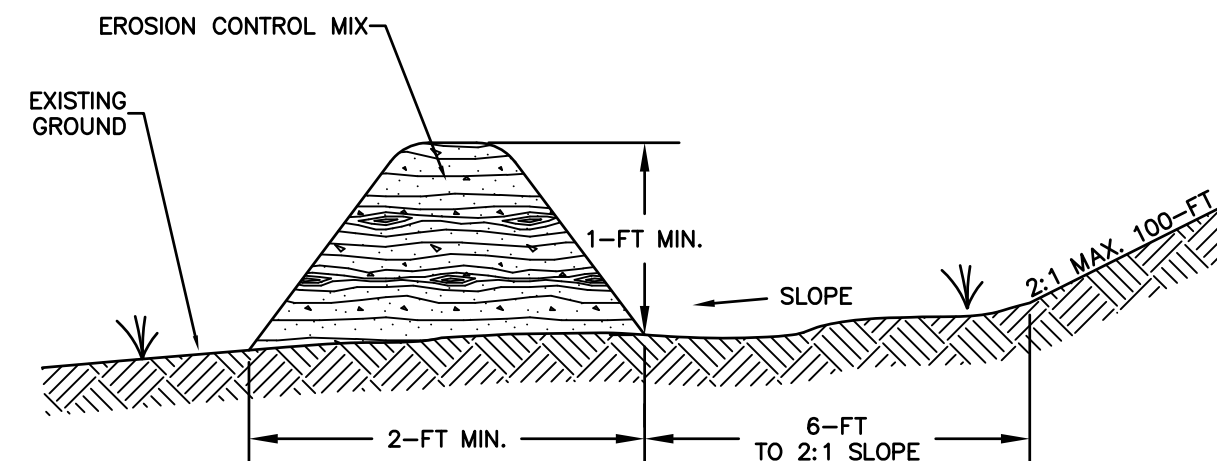
15. DURING MINING ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEEKLY, AFTER EVERY 1/2 INCH OF RAINFALL, AND ANNUALLY.
16. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.
17. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
18. SEDIMENT SHALL BE DISPOSED OF PROPERLY EITHER ON SITE OR OFF SITE.

PROJECT COMPLETION AND STABILIZATION:

19. UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. ANY DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.
20. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH BASINS AND THE SEDIMENT FOREBAYS TO THE INFILTRATION BASINS.



EROSION CONTROL MIX BERM CROSS-SECTION



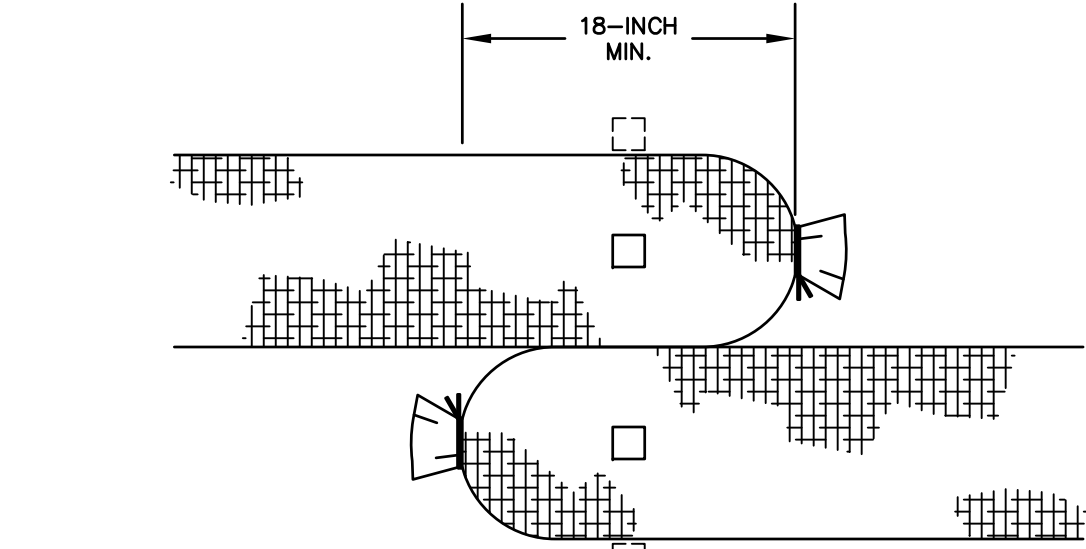
EROSION CONTROL MIX BERM CROSS-SECTION

- MAINTENANCE REQUIREMENTS:**
1. EROSION CONTROL MIX BERMS SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
 2. EROSION CONTROL MIX BERMS SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM.
 3. IF THERE ARE SIGNS OF BREACHING OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, THE EROSION CONTROL MIX BERMS SHOULD BE REPLACED WITH OTHER MEASURES TO INTERCEPT AND TRAP SEDIMENT (SUCH AS A DIVERSION BERM DIRECTING RUNOFF TO A SEDIMENT TRAP OR BASIN).
 4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT.
 5. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) OF THE HEIGHT OF THE BARRIER.
 6. EROSION CONTROL MIX BERMS SHOULD BE RESHAPED OR REAPPLIED AS NEEDED.
 7. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- CONSTRUCTION SPECIFICATIONS:**
1. EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF OF THE PROJECT SITE.
 2. EROSION CONTROL MIX MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS.
 3. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
 4. **COMPOSITION OF THE EROSION CONTROL MIX SHOULD BE AS FOLLOWS:**
 - a) EROSION CONTROL MIX SHALL BE A WELL GRADED MIXTURE OF PARTICLE SIZES FREE OF REFUSE, PHYSICAL CONTAMINANTS, MATERIAL TOXIC TO PLANT GROWTH AND MAY NOT CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER;
 - b) ORGANIC MATTER = 25-65% DRY WEIGHT BASIS
 - c) PARTICLES PASSING BY WEIGHT:

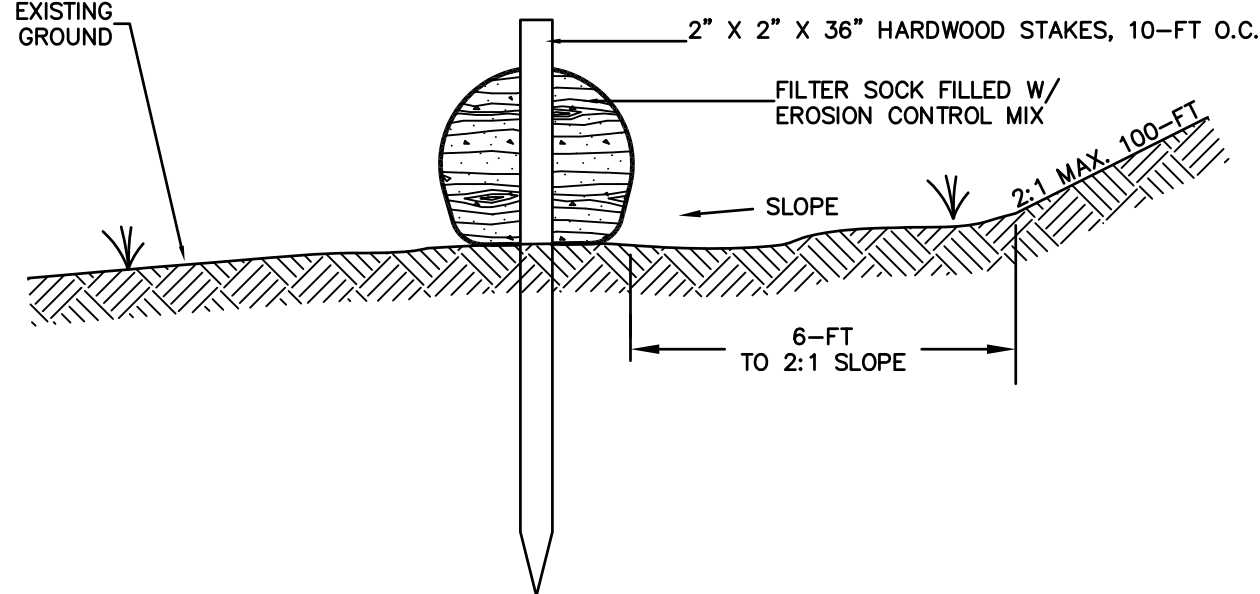
SCREEN-PASSING BY WEIGHT:	PERCENT
3-INCH	100%
1-INCH	90-100%
3/4-INCH	70-100%
1/4-INCH	30-75%
 - d) THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - e) THE MIX SHOULD CONTAIN NO SILTS, CLAYS OR FINE SANDS.
 - f) SOLUBLE SALTS CONTENT < 4.0 mmhos/cm
 - g) pH OF THE MIX SHOULD BE BETWEEN 5.0 AND 8.0.
 5. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
 6. IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
 7. THE BARRIER MUST BE A MINIMUM OF 12-INCHES TALL AS MEASURED ON THE UPHILL SIDE OF THE BARRIER.
 8. THE BARRIER MUST BE A MINIMUM OF 2-FT WIDE.

EROSION CONTROL MIX BERM DETAIL

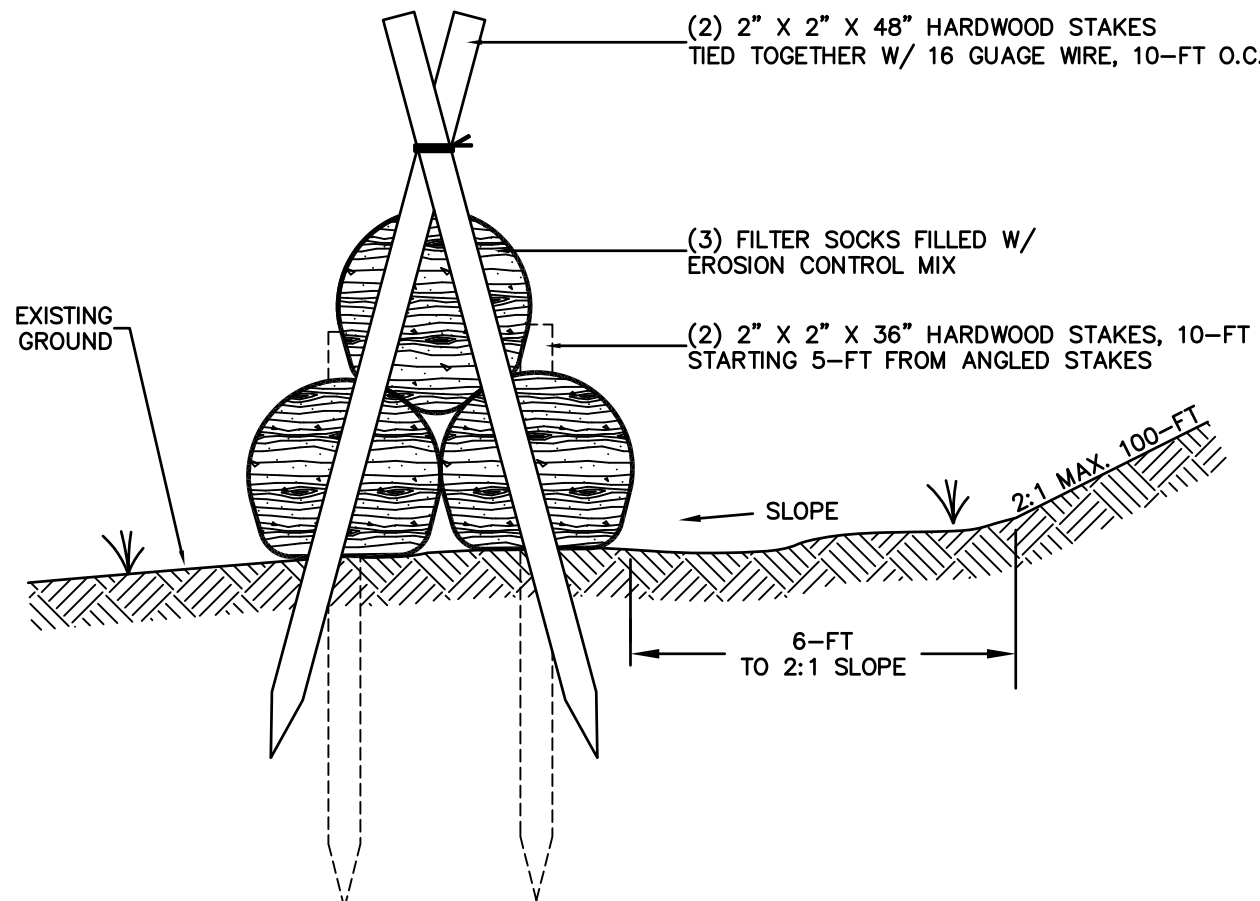
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FILTER SOCK CONNECTION PLAN VIEW



FILTER SOCK CROSS-SECTION



HEAVY DUTY PYRAMID FILTER SOCK CROSS-SECTION

- CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):**
1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTAINMENT AND STABILITY TO A BERM OF EROSION CONTROL MIX.
 2. IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
 3. INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.

- MAINTENANCE REQUIREMENTS:**
1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS.
- CONSTRUCTION SPECIFICATIONS:**
1. COMPOSITION OF THE EROSION CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.
 2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
 3. IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
 4. FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF INSTALLATION.

CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE

MONITORING REQUIREMENTS:

1. PRIOR TO INITIATION OF BLASTING, A GROUNDWATER MONITORING PLAN SHALL BE DEVELOPED FOR REVIEW AND APPROVAL BY THE DEPARTMENT. THE PLAN SHALL MONITOR FOR POTENTIAL IMPACTS ASSOCIATED WITH BLASTING TO GROUNDWATER THAT IS DERIVED FROM REPRESENTATIVE DRINKING WATER SUPPLY WELLS NEAR THE SITE. THE PLAN SHALL BE IMPLEMENTED ONCE APPROVED BY THE DEPARTMENT.
2. PRIOR TO BLASTING, A BLASTING PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE DEPARTMENT. THE PLAN SHALL DESCRIBE THE BEST MANAGEMENT PRACTICES THAT WILL BE IMPLEMENTED TO PREVENT GROUNDWATER CONTAMINATION ASSOCIATED WITH BLASTING AND RELATED ACTIVITIES. THE PLAN SHALL BE IMPLEMENTED ONCE APPROVED BY THE DEPARTMENT.
3. FOR GUIDANCE IN PREPARING THE ABOVE MONITORING AND BLASTING PLANS, PLEASE CONTACT BRANDON KERNEN AT THE NHDES HYDROLOGY AND CONSERVATION PROGRAM (603) 271-0660.

DUST CONTROL PRACTICES:

1. APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
2. **WATER APPLICATION:**
 - a) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
 - b) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBODIES.
3. **STONE APPLICATION:**
 - a) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 - b) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
4. REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

31 Mooney Street, Alton, N.H. 603-875-3948

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

EROSION CONTROL DETAILS
NH ROUTE 11 - FARMINGTON ROAD
STRAFFORD COUNTY
ROCHESTER, N.H.

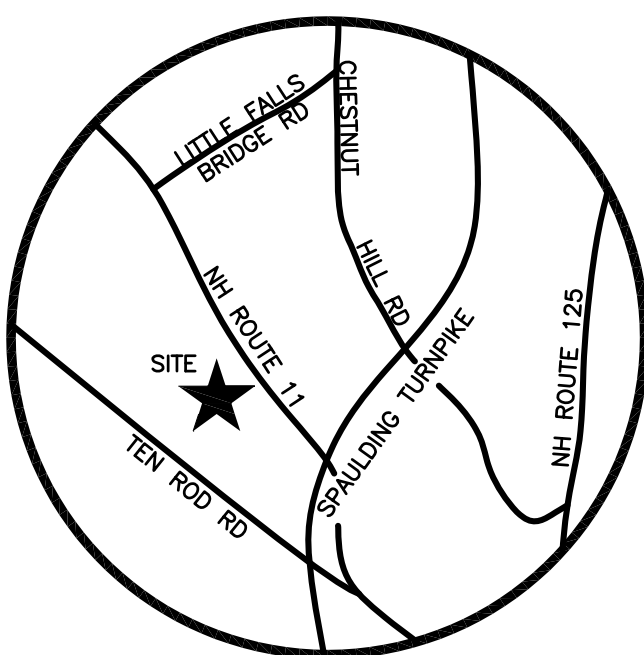
PREPARED FOR:
COYOTE CREEK OUTFITTERS

SCALE: AS SHOWN JANUARY 2014

NORWAY PLAINS ASSOCIATES, INC. 2 Continental Blvd., Rochester, N.H. 603-335-3948 C-5

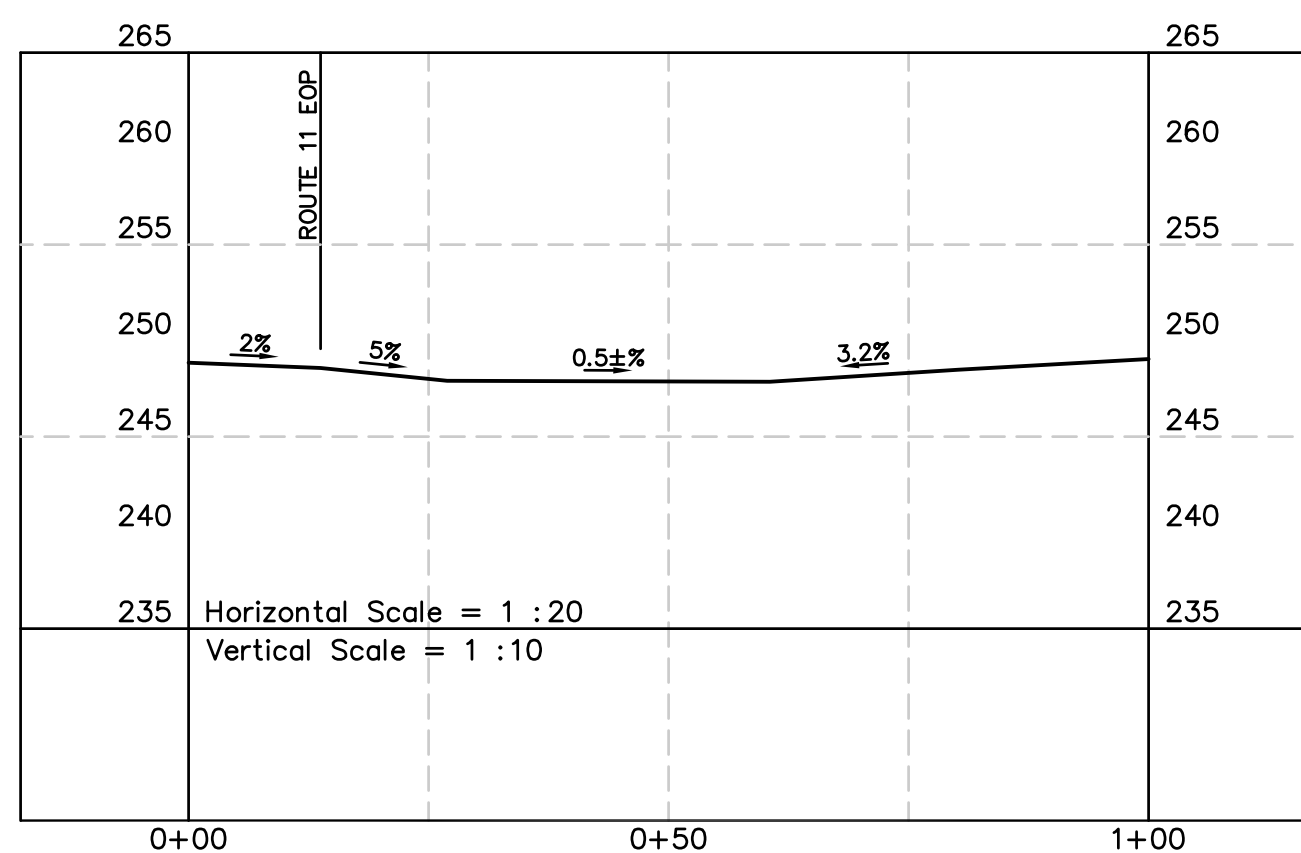
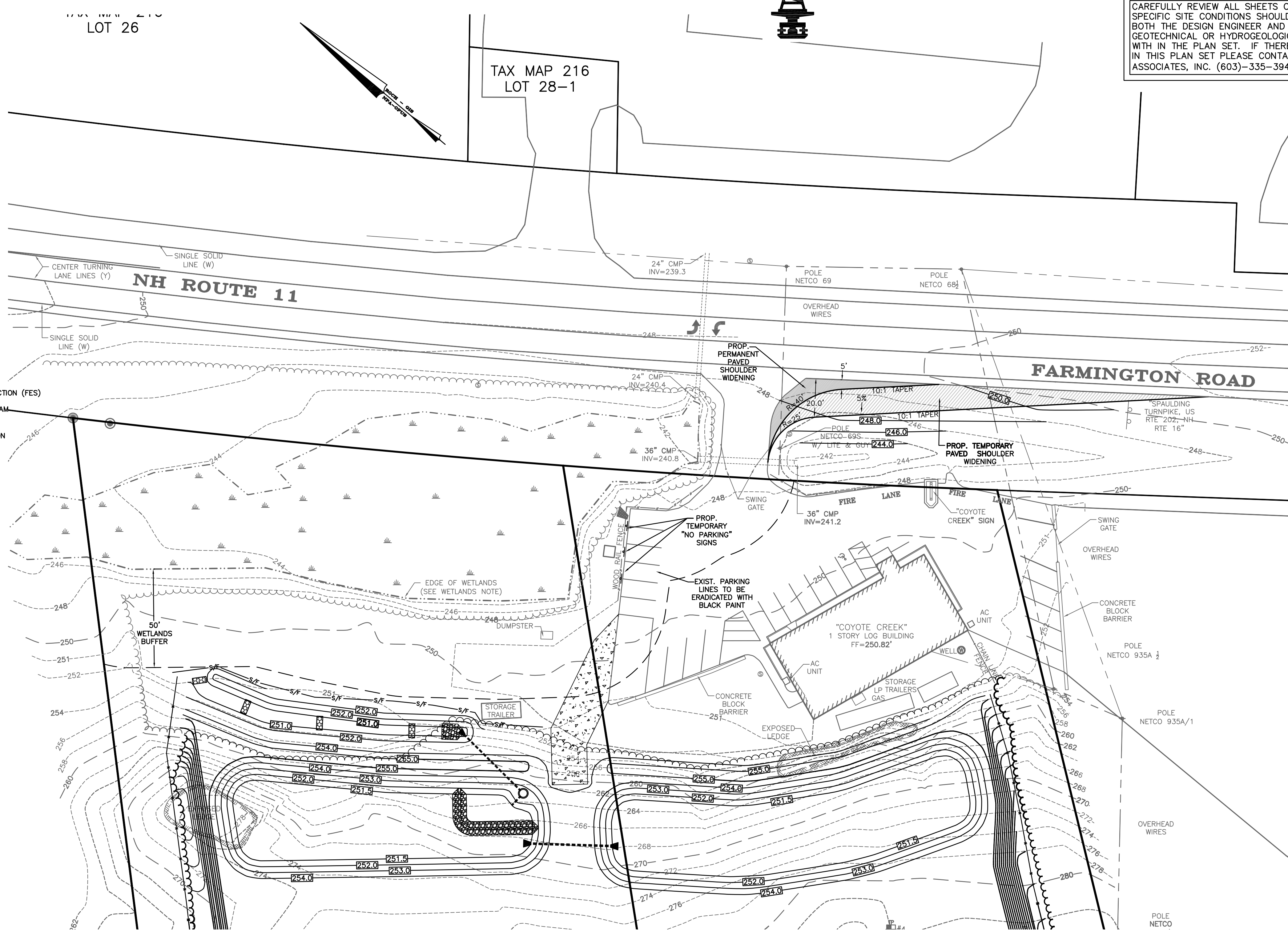
LEGEND

- PROPERTY LINE
BUILDING SETBACK LINES
EXISTING TREE LINE
EXISTING OVERHEAD WIRES
EXISTING STOCKADE FENCE
EXISTING CHAINLINK FENCE
-234- EXISTING CONTOUR LINE
EXISTING DRAIN LINE
EXISTING WATER LINE
EXISTING SEWER LINE
EXISTING GAS LINE
EXISTING UTILITY POLE
EXISTING MONUMENTS
EXISTING DRAIN MANHOLE
EXISTING CATCH BASIN
EXISTING SEWER MANHOLE
EXISTING HYDRANT
EXISTING WATER GATE
VALVE OR SHUT-OFF
EXISTING GAS GATE VALVE
EXISTING TEST PIT
LOCATION & NUMBER
PROPOSED CONTOURS
PROPOSED SPOT GRADE
PROPOSED TREE LINE
PROPOSED DRAIN LINE
PROPOSED FLARED END SECTION (FES)
PROPOSED STONE CHECK DAM
PROPOSED INLET PROTECTION
PROPOSED SILT FENCE
PROPOSED ORANGE
CONSTRUCTION FENCE

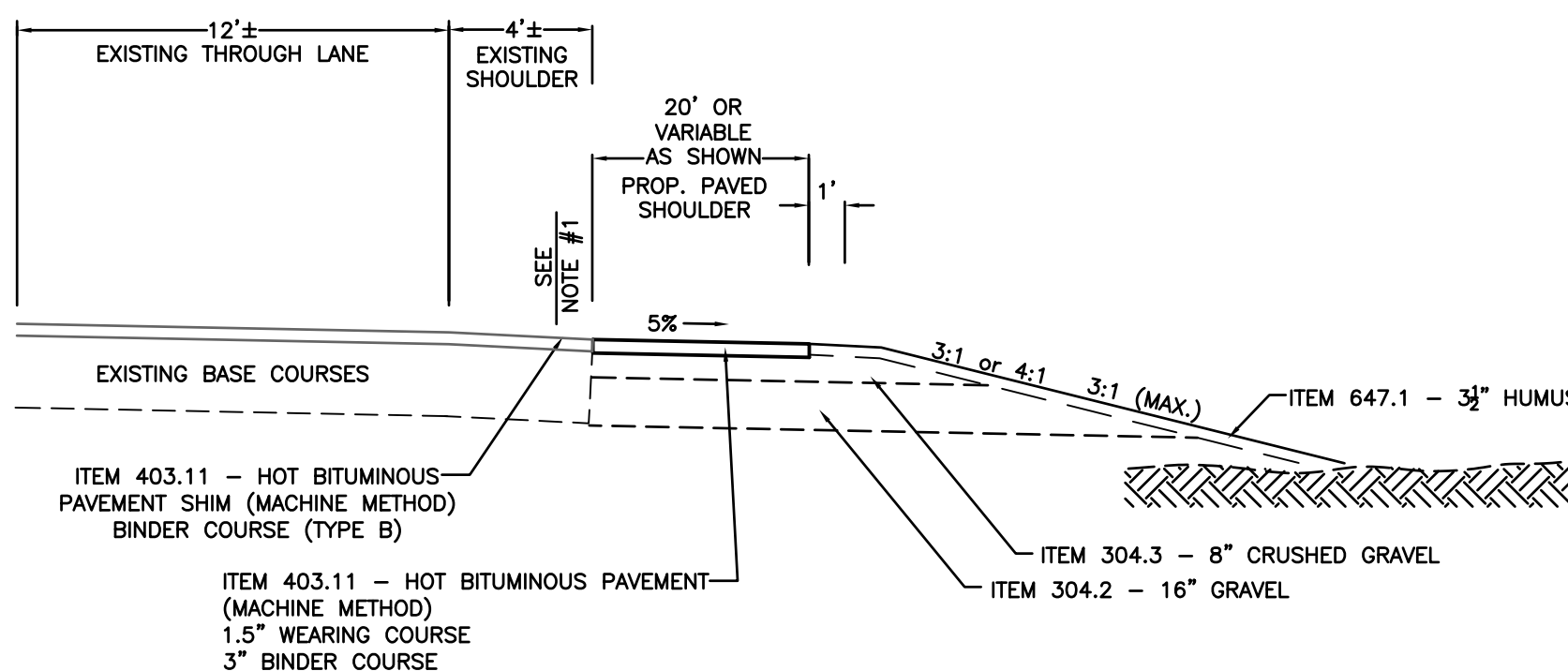
LOCUS MAP
NOT TO SCALE

FILE NO. 116
PLAN NO. C-2688
DWG NO. 13108\SP-1
F.B. NO. SDR;

LOT 26

TAX MAP 216
LOT 28-1

DRIVEWAY PROFILE



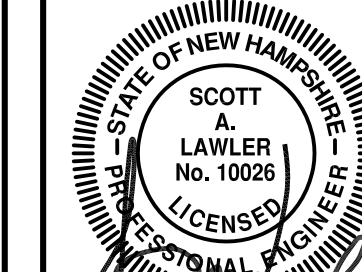
PROPOSED SHOULDER WIDENING DETAIL

SCALE: 1" = 5'

NOTES:

- SAW CUT PAVEMENT AT ONE FOOT INSIDE OF THE EXISTING EDGE OF PAVEMENT.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE NHDOT "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- ALL DISTURBED SLOPES SHALL BE LOAMED AND SEEDED AS SHOWN.

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION:

03/03/14 - ADD PROPOSED TEMPORARY AND PERMANENT PAVEMENT WIDENING TO DRIVEWAY ENTRANCE. ADD NOTES #6 AND #7 UNDER NHDOT CONDITIONS OF APPROVAL.

- NHDOT CONDITIONS OF APPROVAL:
- NO STRUCTURES, INCLUDING BUILDINGS, PERMANENT OR PORTABLE SIGNS, LIGHTS, DISPLAYS, FENCES, WALLS, ETC. SHALL BE PERMITTED ON, OVER OR UNDER HIGHWAY RIGHT OF WAY.
 - NO PARKING, CATERING OR SERVICING SHALL BE CONDUCTED WITHIN THE HIGHWAY RIGHT OF WAY.
 - THE APPLICANT SHALL COMPLY WITH ALL APPLICABLE ORDINANCES AND REGULATIONS OF THE MUNICIPALITY OR OTHER STATE AGENCIES.
 - THE DEPARTMENT HAS RELIED ON THE TITLE AND SUBDIVISION INFORMATION PROVIDED BY THE LANDOWNER. THE DEPARTMENT HAS NOT PERFORMED ADDITIONAL TITLE RESEARCH AND MAKES NO WARRANTY OR REPRESENTATION CONCERNING LANDOWNER'S LEGAL RIGHT OF ACCESS. IN THE EVENT OF A DISPUTE ABOUT THE LANDOWNER'S LEGAL RIGHT TO THE ACCESS PROVIDED HEREIN, THE LANDOWNER WILL DEFEND AND INDEMNIFY THE DEPARTMENT.
 - THE DRIVEWAY SHALL BE CONSTRUCTED AS SHOWN ON SHEET C-6 OF THE PLAN SET DATED JANUARY 2014 AND REVISED MARCH 3, 2014. THE DRIVEWAY ACCESS POINT IS A MODIFICATION TO AN EXISTING ENTRANCE AND WAS DESIGNED FOR HAULING MATERIALS DEPARTING THE DRIVEWAY IN AN EASTERLY DIRECTION ALONG ROUTE 11. IF TRAFFIC PATTERNS CHANGE TO INCLUDE HAULING MATERIALS DEPARTING THE DRIVE AND RE-ENTERING THE DRIVEWAY ACCESS POINT FROM THE WESTERLY DIRECTION OF ROUTE 11, THEN A NEW DRIVEWAY PERMIT SHALL BE SUBMITTED FOR APPROVAL AND IT IS ANTICIPATED THAT A DECELERATION LANE WILL BE REQUIRED TO BE CONSTRUCTED.
 - THE PROPOSED TEMPORARY SHOULDER WIDENING PAVEMENT SHALL BE REMOVED ONCE THE EXCAVATION HAS COMPLETED UNLESS A NEW DRIVEWAY PERMIT APPLICATION HAS BEEN APPROVED TO REQUIRE THE ADDITIONAL PAVEMENT TO REMAIN OR BE MODIFIED AS PART OF A SITE PLAN APPROVAL BY THE CITY OF ROCHESTER PLANNING BOARD.
 - THE 3:1 FILL SLOPES SHALL BE FLATTENED TO 4:1 SLOPES DURING THE RECONSTRUCTION FOR THE PERMANENT SHOULDER WIDENING ONCE THE EXCAVATION HAS COMPLETED.

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

TAX MAP 216 - LOT 2
OWNER OF RECORD
THAYER DAVID S. THAYER
596 GOVERNORS RD
MILTON, NH 03851
SCRD 4152-849

TAX MAP 216 - LOT 3
OWNERS OF RECORD
RICHARD P. THAYER REVOCABLE TRUST
RICHARD P. & DIANE J. THAYER, TRUSTEES
407 MERRYMEETING RD
NEW DURHAM, NH 03855-2100
SCRD 4152-787

DRIVEWAY ENTRANCE
IMPROVEMENT PLAN
NH ROUTE 11 - FARMINGTON ROAD
STRAFFORD COUNTY
ROCHESTER, N.H.

PREPARED FOR:
COYOTE CREEK OUTFITTERS

SCALE: 1" = 30' JANUARY 2014

GRAPHIC SCALE

